

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Gm4841	NM_001034859	ref Mus musculus predicted gene 4841 (Gm4841), mRNA [NM_001034859]	2.82	0.000	0.044
LOC100045253	XM_001473935	ref PREDICTED: Mus musculus similar to Scoc protein (LOC100045253), mRNA [XM_001473935]	1.76	0.041	1.000
BC023105	XM_001471580	ref PREDICTED: Mus musculus hypothetical LOC667597 (LOC667597), mRNA [XM_001471580]	1.69	0.007	0.686
4930535C22Rik	AK015975	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930535C22 product:unclassifiable, full insert sequence. [AK015975]	1.60	0.010	0.745
Myl4	NM_010858	ref Mus musculus myosin, light polypeptide 4 (Myl4), mRNA [NM_010858]	1.43	0.048	1.000
Olf293	NM_001011752	ref Mus musculus olfactory receptor 293 (Olf293), mRNA [NM_001011752]	1.35	0.002	0.391
Olf1032	NM_146579	ref Mus musculus olfactory receptor 1032 (Olf1032), mRNA [NM_146579]	1.22	0.023	0.948
Dgat2l6	NM_001114084	ref Mus musculus diacylglycerol O-acyltransferase 2-like 6 (Dgat2l6), mRNA [NM_001114084]	1.22	0.026	0.971
LOC100047444	XM_001478156	ref PREDICTED: Mus musculus hypothetical protein LOC100047444 (LOC100047444), mRNA [XM_001478156]	1.20	0.010	0.762
1700014N06Rik	ENSMUST00000059808	ens RIKEN cDNA 1700014N06 gene Gene [Source:MGI Symbol;Acc:MGI:1916639] [ENSMUST00000059808]	1.04	0.036	1.000
chr3:30099759-30133959_F	chr3:30099759-30133959_F	lincRNA:chr3:30099759-30133959 forward strand	0.98	0.005	0.620
chr11:53592946-53637922_F	chr11:53592946-53637922_F	lincRNA:chr11:53592946-53637922 forward strand	0.98	0.013	0.802
Ccdc7	NM_029061	ref Mus musculus coiled-coil domain containing 7 (Ccdc7), mRNA [NM_029061]	0.97	0.026	0.974
Cxcl10	NM_021274	ref Mus musculus chemokine (C-X-C motif) ligand 10 (Cxcl10), mRNA [NM_021274]	0.96	0.010	0.747
2010317E24Rik	NM_001081085	ref Mus musculus RIKEN cDNA 2010317E24 gene (2010317E24Rik), mRNA [NM_001081085]	0.95	0.013	0.802
chr4:153321746-153324612_R	chr4:153321746-153324612_R	lincRNA:chr4:153321746-153324612 reverse strand	0.93	0.006	0.635
ENSMUST00000082269	ENSMUST00000082269	ens RIKEN cDNA 3110018I06 gene Gene [Source:MGI Symbol;Acc:MGI:1920410] [ENSMUST00000082269]	0.93	0.003	0.457
Olf681	NM_207557	ref Mus musculus olfactory receptor 681 (Olf681), mRNA [NM_207557]	0.90	0.005	0.578
chr11:18753941-18760118_R	chr11:18753941-18760118_R	lincRNA:chr11:18753941-18760118 reverse strand	0.90	0.021	0.899
Vmn1r37	NM_134165	ref Mus musculus vomeronasal 1 receptor 37 (Vmn1r37), mRNA [NM_134165]	0.90	0.008	0.694
Olf678	NM_146758	ref Mus musculus olfactory receptor 678 (Olf678), mRNA [NM_146758]	0.88	0.019	0.880
LOC100044106	XM_001472518	ref PREDICTED: Mus musculus similar to plexin C1 (LOC100044106), mRNA [XM_001472518]	0.88	0.009	0.720
chr17:15368546-15377747_R	chr17:15368546-15377747_R	lincRNA:chr17:15368546-15377747 reverse strand	0.88	0.000	0.117
chr2:25778863-25780329_F	chr2:25778863-25780329_F	lincRNA:chr2:25778863-25780329 forward strand	0.84	0.024	0.957
ENSMUST00000088133	ENSMUST00000088133	ens RIKEN cDNA 1700003E24 gene Gene [Source:MGI Symbol;Acc:MGI:1916607] [ENSMUST00000088133]	0.84	0.048	1.000
Gm2945	XM_001475181	ref PREDICTED: Mus musculus hypothetical protein LOC100040750 (LOC100040750), mRNA [XM_001475181]	0.82	0.011	0.766
LOC100047548	XM_001478382	ref PREDICTED: Mus musculus hypothetical protein LOC100047548 (LOC100047548), mRNA [XM_001478382]	0.82	0.020	0.889

Online Supplemental Table IV: mG4H-Veh Only

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XM_001474213	XM_001474213	ref PREDICTED: Mus musculus hypothetical protein LOC100045723 (LOC100045723), mRNA [XM_001474213]	0.80	0.030	0.998
LOC100039701	XM_001473357	ref PREDICTED: Mus musculus hypothetical protein LOC100039701 (LOC100039701), mRNA [XM_001473357]	0.80	0.037	1.000
Pap0lb	NM_019943	ref Mus musculus poly (A) polymerase beta (testis specific) (Pap0lb), mRNA [NM_019943]	0.80	0.003	0.434
Gm3854	XM_001474836	ref PREDICTED: Mus musculus hypothetical protein LOC100045615 (LOC100045615), mRNA [XM_001474836]	0.79	0.006	0.661
chr2:176598132-176602354_R	chr2:176598132-176602354_R	lincRNA:chr2:176598132-176602354 reverse strand	0.78	0.028	0.986
chr11:33414450-33450750_R	chr11:33414450-33450750_R	lincRNA:chr11:33414450-33450750 reverse strand	0.77	0.021	0.904
Gfm2	NM_001146043	ref Mus musculus G elongation factor, mitochondrial 2 (Gfm2), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA [NM_001146043]	0.77	0.044	1.000
Slc37a4	NM_008063	ref Mus musculus solute carrier family 37 (glucose-6-phosphate transporter), member 4 (Slc37a4), mRNA [NM_008063]	0.76	0.000	0.010
LOC100045886	XM_001475104	ref PREDICTED: Mus musculus hypothetical protein LOC100045886 (LOC100045886), mRNA [XM_001475104]	0.76	0.033	1.000
Spag16	NM_025728	ref Mus musculus sperm associated antigen 16 (Spag16), transcript variant 2, mRNA [NM_025728]	0.75	0.044	1.000
Gm3034	XM_001475268	ref PREDICTED: Mus musculus hypothetical protein LOC100045998 (LOC100045998), mRNA [XM_001475268]	0.75	0.020	0.895
1700008J07Rik	NR_024331	ref Mus musculus RIKEN cDNA 1700008J07 gene (1700008J07Rik), non-coding RNA [NR_024331]	0.74	0.031	1.000
LOC100038760	AK090261	gb Mus musculus 21 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:G630030A02 product: hypothetical protein, full insert sequence. [AK090261]	0.74	0.000	0.012
Magea10	NM_001085506	ref Mus musculus melanoma antigen family A, 10 (Magea10), mRNA [NM_001085506]	0.74	0.018	0.868
chr4:145539725-145596000_R	chr4:145539725-145596000_R	lincRNA:chr4:145539725-145596000 reverse strand	0.73	0.034	1.000
chr2:130697320-130729670_F	chr2:130697320-130729670_F	lincRNA:chr2:130697320-130729670 forward strand	0.73	0.044	1.000
chr14:78936896-78937160_R	chr14:78936896-78937160_R	lincRNA:chr14:78936896-78937160 reverse strand	0.73	0.009	0.730
C330027C09Rik	NM_172616	ref Mus musculus RIKEN cDNA C330027C09 gene (C330027C09Rik), mRNA [NM_172616]	0.71	0.021	0.912
Tas2r108	NM_020502	ref Mus musculus taste receptor, type 2, member 108 (Tas2r108), mRNA [NM_020502]	0.71	0.005	0.611
chr19:29582018-29596693_F	chr19:29582018-29596693_F	lincRNA:chr19:29582018-29596693 forward strand	0.71	0.000	0.117
Vmn2r101	NM_001104563	ref Mus musculus vomeronasal 2, receptor 101 (Vmn2r101), mRNA [NM_001104563]	0.71	0.034	1.000
Gm847	XM_001477392	ref PREDICTED: Mus musculus gene model 847, (NCBI) (Gm847), mRNA [XM_001477392]	0.70	0.019	0.882
Aqp4	NM_009700	ref Mus musculus aquaporin 4 (Aqp4), mRNA [NM_009700]	0.70	0.002	0.357
Pth2r	NM_139270	ref Mus musculus parathyroid hormone 2 receptor (Pth2r), mRNA [NM_139270]	0.69	0.016	0.848

Online Supplemental Table IV: mG4H-Veh Only					
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Gm7860	XR_030748	ref PREDICTED: Mus musculus similar to ribosomal protein S2 (LOC665947), misc RNA [XR_030748]	0.68	0.048	1.000
F830016B08Rik	NM_001101475	ref Mus musculus RIKEN cDNA F830016B08 gene (F830016B08Rik), mRNA [NM_001101475]	0.67	0.028	0.983
Spag4	NM_139151	ref Mus musculus sperm associated antigen 4 (Spag4), mRNA [NM_139151]	0.67	0.003	0.456
Gm6713	XM_987764	ref PREDICTED: Mus musculus predicted gene, EG626858 (EG626858), mRNA [XM_987764]	0.67	0.042	1.000
Gm9805	XM_001477677	ref PREDICTED: Mus musculus predicted gene, ENSMUSG00000046088 (ENSMUSG00000046088), mRNA [XM_001477677]	0.66	0.039	1.000
chr7:137486825-137498500_F	chr7:137486825-137498500_F	lincRNA:chr7:137486825-137498500 forward strand	0.66	0.049	1.000
2610035F20Rik	AK042842	gb Mus musculus 7 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:A730029P14 product:unclassifiable, full insert sequence. [AK042842]	0.66	0.003	0.457
chrX:65756325-65757543_F	chrX:65756325-65757543_F	lincRNA:chrX:65756325-65757543 forward strand	0.66	0.046	1.000
Cntn2	NM_177129	ref Mus musculus contactin 2 (Cntn2), mRNA [NM_177129]	0.65	0.002	0.405
chr12:110845020-110850870_F	chr12:110845020-110850870_F	lincRNA:chr12:110845020-110850870 forward strand	0.65	0.049	1.000
chr12:53669892-53710742_R	chr12:53669892-53710742_R	lincRNA:chr12:53669892-53710742 reverse strand	0.65	0.022	0.926
Reg3a	NM_011259	ref Mus musculus regenerating islet-derived 3 alpha (Reg3a), mRNA [NM_011259]	0.65	0.013	0.808
ENSMUST00000053171	ENSMUST00000053171	ens Ileucine rich repeat containing 49 Gene [Source:MGI (curated);Acc:MGI:2442689] [ENSMUST00000053171]	0.65	0.050	1.000
chr9:56646768-56649068_R	chr9:56646768-56649068_R	lincRNA:chr9:56646768-56649068 reverse strand	0.64	0.048	1.000
Gm14773	ENSMUST00000073994	ref PREDICTED: Mus musculus similar to Predicted gene, EG546347 (LOC670074), mRNA [XM_001474745]	0.64	0.012	0.793
ENSMUST00000090257	ENSMUST00000090257	ref PREDICTED: Mus musculus predicted gene, EG666668 (EG666668), mRNA [XM_985281]	0.64	0.013	0.793
chr7:67111261-67120645_R	chr7:67111261-67120645_R	lincRNA:chr7:67111261-67120645 reverse strand	0.64	0.001	0.331
chr1:115787961-115860711_R	chr1:115787961-115860711_R	lincRNA:chr1:115787961-115860711 reverse strand	0.64	0.012	0.793
Ralgapa2	NM_001033348	ref Mus musculus Ral GTPase activating protein, alpha subunit 2 (catalytic) (Ralgapa2), mRNA [NM_001033348]	0.64	0.017	0.862
chr13:112337405-112356455_F	chr13:112337405-112356455_F	lincRNA:chr13:112337405-112356455 forward strand	0.64	0.004	0.549
Pex26	NM_028730	ref Mus musculus peroxisomal biogenesis factor 26 (Pex26), mRNA [NM_028730]	0.64	0.008	0.708
chr11:33414450-33450750_F	chr11:33414450-33450750_F	lincRNA:chr11:33414450-33450750 forward strand	0.63	0.047	1.000
chr6:3283191-3284581_R	chr6:3283191-3284581_R	lincRNA:chr6:3283191-3284581 reverse strand	0.63	0.035	1.000
Tmco1	NM_001039483	ref Mus musculus transmembrane and coiled-coil domains 1 (Tmco1), mRNA [NM_001039483]	0.63	0.024	0.952
chr4:59105222-59122541_R	chr4:59105222-59122541_R	lincRNA:chr4:59105222-59122541 reverse strand	0.63	0.023	0.938
ENSMUST00000064878	ENSMUST00000064878	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q8CDT1] [ENSMUST00000064878]	0.63	0.050	1.000
ENSMUST00000032872	ENSMUST00000032872	ens RIKEN cDNA 1700010L04 gene Gene [Source:MGI Symbol;Acc:MGI:1916583] [ENSMUST00000032872]	0.63	0.023	0.943

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chr4:135896689-135918414_R	chr4:135896689-135918414_R	lincRNA:chr4:135896689-135918414 reverse strand	0.63	0.001	0.259
chr6:95418306-95424131_F	chr6:95418306-95424131_F	lincRNA:chr6:95418306-95424131 forward strand	0.63	0.014	0.825
chr12:85252300-85253597_R	chr12:85252300-85253597_R	lincRNA:chr12:85252300-85253597 reverse strand	0.62	0.047	1.000
Tas2r107	NM_199154	ref Mus musculus taste receptor, type 2, member 107 (Tas2r107), mRNA [NM_199154]	0.62	0.041	1.000
Chrdl2	NM_133709	ref Mus musculus chordin-like 2 (Chrdl2), mRNA [NM_133709]	0.62	0.005	0.581
chr14:73729977-73751877_F	chr14:73729977-73751877_F	lincRNA:chr14:73729977-73751877 forward strand	0.61	0.042	1.000
Snrpn	NM_001082962	ref Mus musculus small nuclear ribonucleoprotein N (Snrpn), transcript variant 3, mRNA [NM_001082962]	0.61	0.000	0.188
Rab3c	NM_023852	ref Mus musculus RAB3C, member RAS oncogene family (Rab3c), mRNA [NM_023852]	0.61	0.008	0.708
ENSMUST00000050474	ENSMUST00000050474	ens transmembrane protease, serine 12 Gene [Source:MGI Symbol;Acc:MGI:1922252] [ENSMUST00000050474]	0.61	0.041	1.000
Abcb5	NM_029961	ref Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 5 (Abcb5), mRNA [NM_029961]	0.61	0.035	1.000
chr15:74478614-74478997_F	chr15:74478614-74478997_F	lincRNA:chr15:74478614-74478997 forward strand	0.60	0.012	0.790
Gm648	NM_001033372	ref Mus musculus predicted gene 648 (Gm648), mRNA [NM_001033372]	0.60	0.040	1.000
chr17:15357376-15385701_R	chr17:15357376-15385701_R	lincRNA:chr17:15357376-15385701 reverse strand	0.60	0.031	1.000
chr1:52706748-52712402_R	chr1:52706748-52712402_R	lincRNA:chr1:52706748-52712402 reverse strand	0.60	0.036	1.000
chr16:13752215-13764390_R	chr16:13752215-13764390_R	lincRNA:chr16:13752215-13764390 reverse strand	0.60	0.016	0.845
chr17:15368546-15377747_R	chr17:15368546-15377747_R	lincRNA:chr17:15368546-15377747 reverse strand	0.60	0.008	0.708
Gm2554	XM_001473936	ref PREDICTED: Mus musculus hypothetical protein LOC100040010 (LOC100040010), mRNA [XM_001473936]	0.60	0.032	1.000
Gm9306	XM_001478806	ref PREDICTED: Mus musculus similar to development and differentiation enhancing factor 2 (LOC668698), mRNA [XM_001478806]	0.60	0.007	0.664
chr7:67111261-67120697_R	chr7:67111261-67120697_R	lincRNA:chr7:67111261-67120697 reverse strand	0.59	0.014	0.825
chr8:114477602-114488627_F	chr8:114477602-114488627_F	lincRNA:chr8:114477602-114488627 forward strand	0.59	0.010	0.745
chr12:110738120-110769295_R	chr12:110738120-110769295_R	lincRNA:chr12:110738120-110769295 reverse strand	0.59	0.004	0.516
Prokr2	NM_144944	ref Mus musculus prokineticin receptor 2 (Prokr2), mRNA [NM_144944]	0.59	0.033	1.000
Serpib5	NM_009257	ref Mus musculus serine (or cysteine) peptidase inhibitor, clade B, member 5 (Serpib5), mRNA [NM_009257]	0.59	0.026	0.972
chr7:67111261-67120697_R	chr7:67111261-67120697_R	lincRNA:chr7:67111261-67120697 reverse strand	0.59	0.005	0.602
5330411J11Rik	AK017239	gb Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library, clone:5330411J11 product:unclassifiable, full insert sequence. [AK017239]	0.59	0.048	1.000
chr13:28067341-28067814_F	chr13:28067341-28067814_F	lincRNA:chr13:28067341-28067814 forward strand	0.58	0.042	1.000
AL118430	BP765696	gb BP765696 mouse (C57BL [BP765696]	0.58	0.020	0.883
2010106E10Rik	NM_001168590	ref Mus musculus RIKEN cDNA 2010106E10 gene (2010106E10Rik), transcript variant 1, mRNA [NM_001168590]	0.58	0.024	0.954

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Gm9623	XM_001478954	ref PREDICTED: Mus musculus similar to Ubtf protein (LOC674417), mRNA [XM_001478954]	0.58	0.028	0.986
chr3:126969590-126972626_R	chr3:126969590-126972626_R	lincRNA:chr3:126969590-126972626 reverse strand	0.58	0.021	0.912
chr1:92546371-92551596_F	chr1:92546371-92551596_F	lincRNA:chr1:92546371-92551596 forward strand	0.57	0.041	1.000
Il20	NM_021380	ref Mus musculus interleukin 20 (Il20), mRNA [NM_021380]	0.57	0.007	0.679
Igtp	NM_018738	ref Mus musculus interferon gamma induced GTPase (Igtp), mRNA [NM_018738]	0.57	0.020	0.895
TC1608887	TC1608887	tc Q86VE0_HUMAN (Q86VE0) Myb protein P42POP, partial (5%) [TC1608887]	0.57	0.031	1.000
A_55_P2170702	A_55_P2170702	Unknown	0.57	0.042	1.000
Olfr1165-ps	NM_146648	ref Mus musculus olfactory receptor 1165, pseudogene (Olfr1165-ps), mRNA [NM_146648]	0.57	0.040	1.000
4933411G06Rik	ENSMUST00000075909	ens RIKEN cDNA 4933411G06 gene Gene [Source:MGI Symbol;Acc:MGI:1918340] [ENSMUST00000075909]	0.57	0.012	0.787
chr3:121627545-121639470_F	chr3:121627545-121639470_F	lincRNA:chr3:121627545-121639470 forward strand	0.56	0.007	0.672
chr3:41143423-41359623_R	chr3:41143423-41359623_R	lincRNA:chr3:41143423-41359623 reverse strand	0.56	0.022	0.935
chr6:129151512-129208737_F	chr6:129151512-129208737_F	lincRNA:chr6:129151512-129208737 forward strand	0.56	0.015	0.831
Ccl5	NM_013653	ref Mus musculus chemokine (C-C motif) ligand 5 (Ccl5), mRNA [NM_013653]	0.56	0.003	0.464
Gm10590	XR_001565	ref PREDICTED: Mus musculus similar to 4933409K07Rik protein (LOC545614), misc RNA [XR_001565]	0.56	0.013	0.793
1700015G11Rik	NR_033466	ref Mus musculus RIKEN cDNA 1700015G11 gene (1700015G11Rik), non-coding RNA [NR_033466]	0.56	0.008	0.708
Vmn2r42	NM_009493	ref Mus musculus vomeronasal 2, receptor 42 (Vmn2r42), mRNA [NM_009493]	0.56	0.028	0.984
chr6:146495766-146496419_R	chr6:146495766-146496419_R	lincRNA:chr6:146495766-146496419 reverse strand	0.55	0.024	0.957
chr10:84010161-84016083_R	chr10:84010161-84016083_R	lincRNA:chr10:84010161-84016083 reverse strand	0.55	0.048	1.000
Gm2835	XM_001474894	ref PREDICTED: Mus musculus similar to Ubtf protein (LOC100040549), mRNA [XM_001474894]	0.55	0.034	1.000
chr17:17143325-17181500_R	chr17:17143325-17181500_R	lincRNA:chr17:17143325-17181500 reverse strand	0.55	0.047	1.000
Gm8700	XM_991187	ref PREDICTED: Mus musculus hypothetical LOC667552 (LOC667552), mRNA [XM_991187]	0.55	0.030	0.998
ENSMUST00000098619	ENSMUST00000098619	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3TZ85] [ENSMUST00000098619]	0.54	0.029	0.986
Ccl12	NM_011331	ref Mus musculus chemokine (C-C motif) ligand 12 (Ccl12), mRNA [NM_011331]	0.54	0.008	0.694
chr18:36470130-36489110_R	chr18:36470130-36489110_R	lincRNA:chr18:36470130-36489110 reverse strand	0.54	0.011	0.774
Csnka2ip	NM_173861	ref Mus musculus casein kinase 2, alpha prime interacting protein (Csnka2ip), mRNA [NM_173861]	0.54	0.017	0.861
4932441J04Rik	AK044558	gb Mus musculus adult retina cDNA, RIKEN full-length enriched library, clone:A930022K23 product:unclassifiable, full insert sequence. [AK044558]	0.54	0.006	0.628
chr15:3230734-3251196_R	chr15:3230734-3251196_R	lincRNA:chr15:3230734-3251196 reverse strand	0.54	0.029	0.986
chr9:68349343-68411643_R	chr9:68349343-68411643_R	lincRNA:chr9:68349343-68411643 reverse strand	0.54	0.018	0.864
Gbp1	NM_010259	ref Mus musculus guanylate binding protein 1 (Gbp1), mRNA [NM_010259]	0.54	0.031	0.998

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Tmem211	NM_001033428	ref Mus musculus transmembrane protein 211 (Tmem211), mRNA [NM_001033428]	0.54	0.014	0.813
chr6:5311375-5328075_R	chr6:5311375-5328075_R	lincRNA:chr6:5311375-5328075 reverse strand	0.53	0.020	0.883
chr5:112205091-112240992_R	chr5:112205091-112240992_R	lincRNA:chr5:112205091-112240992 reverse strand	0.53	0.022	0.922
4921528O07Rik	NM_030071	ref Mus musculus RIKEN cDNA 4921528O07 gene (4921528O07Rik), mRNA [NM_030071]	0.53	0.019	0.881
chr10:66574421-66575488_F	chr10:66574421-66575488_F	lincRNA:chr10:66574421-66575488 forward strand	0.52	0.000	0.158
Aff2	NM_008032	ref Mus musculus AF4/FMR2 family, member 2 (Aff2), mRNA [NM_008032]	0.52	0.012	0.783
Gm15246	XM_001475551	ref PREDICTED: Mus musculus similar to Ser/Arg-related nuclear matrix protein (LOC100040950), mRNA [XM_001475551]	0.52	0.019	0.881
chr5:124485370-124502361_R	chr5:124485370-124502361_R	lincRNA:chr5:124485370-124502361 reverse strand	0.52	0.003	0.495
Trem12	NM_001033405	ref Mus musculus triggering receptor expressed on myeloid cells-like 2 (Trem12), mRNA [NM_001033405]	0.52	0.016	0.848
chr7:77555482-77634858_F	chr7:77555482-77634858_F	lincRNA:chr7:77555482-77634858 forward strand	0.52	0.040	1.000
chr14:27176652-27227602_R	chr14:27176652-27227602_R	lincRNA:chr14:27176652-27227602 reverse strand	0.52	0.039	1.000
Slc25a31	NM_178386	ref Mus musculus solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 31 (Slc25a31), nuclear gene encoding mitochondrial protein, mRNA [NM_178386]	0.51	0.038	1.000
D5Erttd577e	NM_177187	ref Mus musculus DNA segment, Chr 5, ERATO Doi 577, expressed (D5Erttd577e), mRNA [NM_177187]	0.51	0.009	0.720
Zfp128	NM_153802	ref Mus musculus zinc finger protein 128 (Zfp128), mRNA [NM_153802]	0.51	0.009	0.734
Slc5a1	NM_019810	ref Mus musculus solute carrier family 5 (sodium/glucose cotransporter), member 1 (Slc5a1), mRNA [NM_019810]	0.51	0.018	0.875
Olf894	NM_146868	ref Mus musculus olfactory receptor 894 (Olf894), mRNA [NM_146868]	0.51	0.030	0.998
ENSMUST00000054860	ENSMUST00000054860	ens predicted gene 9801 Gene [Source:MGI Symbol;Acc:MGI:3647139] [ENSMUST00000054860]	0.51	0.028	0.983
chr15:59966962-59972812_F	chr15:59966962-59972812_F	lincRNA:chr15:59966962-59972812 forward strand	0.51	0.044	1.000
chrX:100745320-100819322_F	chrX:100745320-100819322_F	lincRNA:chrX:100745320-100819322 forward strand	0.50	0.040	1.000
LOC676811	XM_001478448	ref PREDICTED: Mus musculus similar to ALY (LOC676811), mRNA [XM_001478448]	0.50	0.025	0.969
Pdcd1	NM_008798	ref Mus musculus programmed cell death 1 (Pdcd1), mRNA [NM_008798]	0.50	0.016	0.848
chr4:115577276-115577566_F	chr4:115577276-115577566_F	lincRNA:chr4:115577276-115577566 forward strand	0.50	0.033	1.000
chr17:21752466-21793451_F	chr17:21752466-21793451_F	lincRNA:chr17:21752466-21793451 forward strand	0.50	0.011	0.770
chr6:121035524-121061074_F	chr6:121035524-121061074_F	lincRNA:chr6:121035524-121061074 forward strand	0.49	0.049	1.000
chr9:20784567-20799942_F	chr9:20784567-20799942_F	lincRNA:chr9:20784567-20799942 forward strand	0.49	0.042	1.000
ENSMUST00000025618	ENSMUST00000025618	ens proprotein convertase subtilisin/kexin type 5 Gene [Source:MGI Symbol;Acc:MGI:97515] [ENSMUST00000025618]	0.49	0.044	1.000
chr14:44292637-44293014_F	chr14:44292637-44293014_F	lincRNA:chr14:44292637-44293014 forward strand	0.49	0.046	1.000
chr7:69024136-69131056_R	chr7:69024136-69131056_R	lincRNA:chr7:69024136-69131056 reverse strand	0.49	0.001	0.263

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
LOC100048267	XM_001479889	ref PREDICTED: Mus musculus hypothetical protein LOC100048267 (LOC100048267), mRNA [XM_001479889]	0.49	0.031	0.999
Ly6d	NM_010742	ref Mus musculus lymphocyte antigen 6 complex, locus D (Ly6d), mRNA [NM_010742]	0.49	0.017	0.858
chr5:25168628-25185353_R	chr5:25168628-25185353_R	lincRNA:chr5:25168628-25185353 reverse strand	0.49	0.028	0.983
chrX:148819227-148844227_R	chrX:148819227-148844227_R	lincRNA:chrX:148819227-148844227 reverse strand	0.49	0.015	0.831
Gm550	ENSMUST00000113537	ref PREDICTED: Mus musculus gene model 550, (NCBI) (Gm550), mRNA [XM_148894]	0.49	0.039	1.000
Tctex1d4	NM_175030	ref Mus musculus Tctex1 domain containing 4 (Tctex1d4), mRNA [NM_175030]	0.49	0.008	0.694
Tpte	NM_199257	ref Mus musculus transmembrane phosphatase with tensin homology (Tpte), mRNA [NM_199257]	0.49	0.050	1.000
Klra12	NM_010646	ref Mus musculus killer cell lectin-like receptor subfamily A, member 12 (Klra12), mRNA [NM_010646]	0.49	0.037	1.000
Gm9186	XM_001001648	ref PREDICTED: Mus musculus predicted gene, EG668470 (EG668470), mRNA [XM_001001648]	0.48	0.014	0.812
Hoxd3	NM_010468	ref Mus musculus homeobox D3 (Hoxd3), mRNA [NM_010468]	0.48	0.016	0.848
chr13:108548345-108679004_F	chr13:108548345-108679004_F	lincRNA:chr13:108548345-108679004 forward strand	0.48	0.041	1.000
Adamts13	NM_001190374	ref Mus musculus ADAMTS-like 3 (Adamts13), mRNA [NM_001190374]	0.48	0.015	0.831
ENSMUST00000107082	ENSMUST00000107082	ens MCG21374, isoform CRA_aNovel protein ; [Source:UniProtKB/TrEMBL;Acc:A6PWP4] [ENSMUST00000107082]	0.48	0.014	0.818
Vmn1r65	NM_030738	ref Mus musculus vomeronasal 1 receptor 65 (Vmn1r65), mRNA [NM_030738]	0.48	0.032	1.000
ENSMUST00000115164	ENSMUST00000115164	ens zinc finger protein 451 Gene [Source:MGI (curated);Acc:MGI:2137896] [ENSMUST00000115164]	0.48	0.048	1.000
chr5:108538417-108550517_F	chr5:108538417-108550517_F	lincRNA:chr5:108538417-108550517 forward strand	0.47	0.014	0.812
Olf128	NM_206816	ref Mus musculus olfactory receptor 128 (Olf128), mRNA [NM_206816]	0.47	0.023	0.948
chr4:136856064-136875614_R	chr4:136856064-136875614_R	lincRNA:chr4:136856064-136875614 reverse strand	0.47	0.018	0.865
chr15:102026122-102033725_F	chr15:102026122-102033725_F	lincRNA:chr15:102026122-102033725 forward strand	0.47	0.019	0.883
Acta2	NM_007392	ref Mus musculus actin, alpha 2, smooth muscle, aorta (Acta2), mRNA [NM_007392]	0.47	0.007	0.674
ENSMUST00000120586	ENSMUST00000120586	ens chromatin assembly factor 1, subunit B (p60) Gene [Source:MGI (curated);Acc:MGI:1314881] [ENSMUST00000120586]	0.47	0.021	0.904
Pou4f3	NM_138945	ref Mus musculus POU domain, class 4, transcription factor 3 (Pou4f3), mRNA [NM_138945]	0.47	0.010	0.747
Tac1	NM_009311	ref Mus musculus tachykinin 1 (Tac1), mRNA [NM_009311]	0.47	0.014	0.825
Gm4871	NM_001101463	ref Mus musculus predicted gene 4871 (Gm4871), mRNA [NM_001101463]	0.47	0.018	0.865
ENSMUST00000065087	ENSMUST00000065087	ens Riken cDNA C130021I20 gene Gene [Source:MGI Symbol;Acc:MGI:3639863] [ENSMUST00000065087]	0.46	0.030	0.998
Sarm1	NM_172795	ref Mus musculus sterile alpha and HEAT/Armadillo motif containing 1 (Sarm1), transcript variant 2, mRNA [NM_172795]	0.46	0.002	0.409
Chad	NM_007689	ref Mus musculus chondroadherin (Chad), mRNA [NM_007689]	0.46	0.050	1.000
Zfp54	NM_011760	ref Mus musculus zinc finger protein 54 (Zfp54), mRNA [NM_011760]	0.46	0.043	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
chr2:158169020-158191295_F	chr2:158169020-158191295_F	lincRNA:chr2:158169020-158191295 forward strand	0.46	0.044	1.000
chr4:73870498-73881323_R	chr4:73870498-73881323_R	lincRNA:chr4:73870498-73881323 reverse strand	0.46	0.008	0.697
Ankrd33	NM_144790	ref Mus musculus ankyrin repeat domain 33 (Ankrd33), mRNA [NM_144790]	0.46	0.041	1.000
Fmo9	NM_172844	ref Mus musculus flavin containing monooxygenase 9 (Fmo9), mRNA [NM_172844]	0.46	0.015	0.831
Stxbp5l	NM_172440	ref Mus musculus syntaxin binding protein 5-like (Stxbp5l), transcript variant xb, mRNA [NM_172440]	0.46	0.041	1.000
Trat1	NM_198297	ref Mus musculus T cell receptor associated transmembrane adaptor 1 (Trat1), mRNA [NM_198297]	0.46	0.008	0.708
chr15:92174226-92201201_F	chr15:92174226-92201201_F	lincRNA:chr15:92174226-92201201 forward strand	0.46	0.011	0.774
Olfr179	NM_207693	ref Mus musculus olfactory receptor 179 (Olfr179), mRNA [NM_207693]	0.46	0.029	0.987
Rgag4	NM_183318	ref Mus musculus retrotransposon gag domain containing 4 (Rgag4), transcript variant 1, mRNA [NM_183318]	0.46	0.035	1.000
Gpd1	NM_010271	ref Mus musculus glycerol-3-phosphate dehydrogenase 1 (soluble) (Gpd1), mRNA [NM_010271]	0.46	0.000	0.113
chr14:80080060-80080597_R	chr14:80080060-80080597_R	lincRNA:chr14:80080060-80080597 reverse strand	0.45	0.030	0.998
C80171	C80171	gb C80171 Mouse 3.5-dpc blastocyst cDNA Mus musculus cDNA clone J0077E09 3'. [C80171]	0.45	0.001	0.338
chr15:92174226-92201201_F	chr15:92174226-92201201_F	lincRNA:chr15:92174226-92201201 forward strand	0.45	0.008	0.689
Tas2r106	NM_207016	ref Mus musculus taste receptor, type 2, member 106 (Tas2r106), mRNA [NM_207016]	0.45	0.007	0.685
Gm3731	XM_001477753	ref PREDICTED: Mus musculus hypothetical protein LOC100042222 (LOC100042222), mRNA [XM_001477753]	0.45	0.044	1.000
Atp8b3	NM_026094	ref Mus musculus ATPase, class I, type 8B, member 3 (Atp8b3), mRNA [NM_026094]	0.45	0.016	0.848
ENSMUST00000106341	ENSMUST00000106341	ens lymphoid enhancer binding factor 1 Gene [Source:MGI (curated);Acc:MGI:96770] [ENSMUST00000106341]	0.45	0.033	1.000
chr9:122481619-122588714_F	chr9:122481619-122588714_F	lincRNA:chr9:122481619-122588714 forward strand	0.44	0.041	1.000
chr7:71231097-71233680_R	chr7:71231097-71233680_R	lincRNA:chr7:71231097-71233680 reverse strand	0.44	0.018	0.873
chr10:116814196-116920696_R	chr10:116814196-116920696_R	lincRNA:chr10:116814196-116920696 reverse strand	0.44	0.044	1.000
Ankdd1b	NM_001042714	ref Mus musculus ankyrin repeat and death domain containing 1B (Ankdd1b), mRNA [NM_001042714]	0.44	0.017	0.857
Gm14702	XM_001473776	ref PREDICTED: Mus musculus hypothetical LOC671950 (LOC671950), mRNA [XM_001473776]	0.44	0.028	0.985
4930564K09Rik	AK161442	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4931406K06 product:unclassifiable, full insert sequence. [AK161442]	0.44	0.005	0.588
LOC100047070	ENSMUST00000103380	ref PREDICTED: Mus musculus similar to [Human Ig rearranged gamma chain mRNA, V-J-C region and complete cds.], gene product (LOC100047070), mRNA [XM_001477334]	0.44	0.049	1.000
Capns2	NM_027112	ref Mus musculus calpain, small subunit 2 (Capns2), mRNA [NM_027112]	0.44	0.044	1.000
9130230L23Rik	NR_027961	ref Mus musculus RIKEN cDNA 9130230L23 gene (9130230L23Rik), non-coding RNA [NR_027961]	0.44	0.034	1.000
Slnf4	NM_011410	ref Mus musculus schlafen 4 (Slnf4), mRNA [NM_011410]	0.44	0.014	0.825

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
C79777	BG066537	gb H3045B01-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3045B01 3', mRNA sequence [BG066537]	0.43	0.042	1.000
Kcnu1	NM_008432	ref Mus musculus potassium channel, subfamily U, member 1 (Kcnu1), mRNA [NM_008432]	0.43	0.027	0.983
4933404M02Rik	NM_025744	ref Mus musculus RIKEN cDNA 4933404M02 gene (4933404M02Rik), mRNA [NM_025744]	0.43	0.047	1.000
ENSMUST00000103362	ENSMUST00000103362	ens V kappa light chain Precursor; Fragment [Source:UniProtKB/TrEMBL;Acc:A0N8I8] [ENSMUST00000103362]	0.43	0.046	1.000
chr6:91133122-91133347_R	chr6:91133122-91133347_R	lincRNA:chr6:91133122-91133347 reverse strand	0.43	0.043	1.000
G2e3	NM_001167963	ref Mus musculus G2/M-phase specific E3 ubiquitin ligase (G2e3), transcript variant 2, mRNA [NM_001167963]	0.43	0.019	0.881
Otx2os1	BU504680	gb AGENCOURT_8968740 NIH_MGC_94 Mus musculus cDNA clone IMAGE:6492575 5', mRNA sequence [BU504680]	0.43	0.013	0.808
Nmu	NM_019515	ref Mus musculus neuromedin U (Nmu), mRNA [NM_019515]	0.43	0.011	0.782
chr3:105743656-105744336_R	chr3:105743656-105744336_R	lincRNA:chr3:105743656-105744336 reverse strand	0.43	0.008	0.705
1700020G03Rik	AK006158	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:1700020G03 product:unclassifiable, full insert sequence. [AK006158]	0.43	0.026	0.974
Gm6432	ENSMUST00000112911	ref PREDICTED: Mus musculus predicted gene, EG623459 (EG623459), mRNA [XM_887913]	0.43	0.040	1.000
Rps4y2	NR_003634	ref Mus musculus ribosomal protein S4, Y-linked 2 (Rps4y2), non-coding RNA [NR_003634]	0.42	0.001	0.263
Gm7645	XM_977134	ref PREDICTED: Mus musculus predicted gene, EG665467 (EG665467), mRNA [XM_977134]	0.42	0.034	1.000
2610203C20Rik	NR_015483	ref Mus musculus RIKEN cDNA 2610203C20 gene (2610203C20Rik), non-coding RNA [NR_015483]	0.42	0.008	0.705
chr10:120336212-120338944_F	chr10:120336212-120338944_F	lincRNA:chr10:120336212-120338944 forward strand	0.42	0.012	0.786
Gfod1	NM_001033399	ref Mus musculus glucose-fructose oxidoreductase domain containing 1 (Gfod1), mRNA [NM_001033399]	0.42	0.029	0.988
chr12:15774073-15777144_R	chr12:15774073-15777144_R	lincRNA:chr12:15774073-15777144 reverse strand	0.42	0.015	0.826
ENSMUST00000085967	ENSMUST00000085967	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q8BL58] [ENSMUST00000085967]	0.42	0.006	0.635
chr7:88668435-88674440_F	chr7:88668435-88674440_F	lincRNA:chr7:88668435-88674440 forward strand	0.42	0.049	1.000
chr15:92174226-92201201_F	chr15:92174226-92201201_F	lincRNA:chr15:92174226-92201201 forward strand	0.42	0.012	0.788
LOC674218	XM_972872	ref PREDICTED: Mus musculus similar to 2900083I11Rik protein (LOC674218), mRNA [XM_972872]	0.42	0.031	0.999
chr6:108556270-108573161_F	chr6:108556270-108573161_F	lincRNA:chr6:108556270-108573161 forward strand	0.42	0.049	1.000
Dsc1	NM_013504	ref Mus musculus desmocollin 1 (Dsc1), mRNA [NM_013504]	0.42	0.041	1.000
LOC100047753	XM_001478826	ref PREDICTED: Mus musculus similar to Nucleoside diphosphate kinase A (NDK A) (NDP kinase A) (Tumor metastatic process-associated protein) (Metastasis inhibition factor NM23) (NDPK-A) (nm23-M1) (LOC100047753), mRNA [XM_001478826]	0.42	0.037	1.000
BB162755	AK157049	gb Mus musculus activated spleen cDNA, RIKEN full-length enriched library, clone:F830115G09 product:unclassifiable, full insert sequence. [AK157049]	0.42	0.033	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
E130112N10Rik	NR_015604	ref Mus musculus RIKEN cDNA E130112N10 gene (E130112N10Rik), non-coding RNA [NR_015604]	0.42	0.010	0.746
ENSMUST00000115071	ENSMUST00000115071	ens protease, serine, 40 Gene [Source:MGI (curated);Acc:MGI:1270857] [ENSMUST00000115071]	0.42	0.030	0.998
MyI9	NM_172118	ref Mus musculus myosin, light polypeptide 9, regulatory (MyI9), mRNA [NM_172118]	0.41	0.013	0.796
Slc6a3	NM_010020	ref Mus musculus solute carrier family 6 (neurotransmitter transporter, dopamine), member 3 (Slc6a3), mRNA [NM_010020]	0.41	0.033	1.000
LOC100047838	XM_001478317	ref PREDICTED: Mus musculus hypothetical protein LOC100047838 (LOC100047838), mRNA [XM_001478317]	0.41	0.021	0.914
Cry1	NM_007771	ref Mus musculus cryptochrome 1 (photolyase-like) (Cry1), mRNA [NM_007771]	0.41	0.031	1.000
A730069N07Rik	NM_178735	ref Mus musculus RIKEN cDNA A730069N07 gene (A730069N07Rik), mRNA [NM_178735]	0.41	0.036	1.000
Siglec1	NM_011426	ref Mus musculus sialic acid binding Ig-like lectin 1, sialoadhesin (Siglec1), mRNA [NM_011426]	0.41	0.020	0.895
Pdhb	NM_024221	ref Mus musculus pyruvate dehydrogenase (lipoamide) beta (Pdhb), nuclear gene encoding mitochondrial protein, mRNA [NM_024221]	0.41	0.002	0.374
chrX:11671167-11700242_F	chrX:11671167-11700242_F	lincRNA:chrX:11671167-11700242 forward strand	0.41	0.034	1.000
Gm13247	XR_032704	ref PREDICTED: Mus musculus similar to crooked legs CG14938-PB (LOC100041433), misc RNA [XR_032704]	0.41	0.049	1.000
Abca17	NM_001031621	ref Mus musculus ATP-binding cassette, sub-family A (ABC1), member 17 (Abca17), mRNA [NM_001031621]	0.41	0.012	0.793
Pirt	NM_178656	ref Mus musculus phosphoinositide-interacting regulator of transient receptor potential channels (Pirt), mRNA [NM_178656]	0.41	0.026	0.973
Prhr	NM_201615	ref Mus musculus prolactin releasing hormone receptor (Prhr), mRNA [NM_201615]	0.41	0.036	1.000
Gm6119	XR_030641	ref PREDICTED: Mus musculus predicted gene, EG619980 (EG619980), misc RNA [XR_030641]	0.41	0.016	0.854
chr4:12050675-12066450_F	chr4:12050675-12066450_F	lincRNA:chr4:12050675-12066450 forward strand	0.41	0.015	0.832
Sp5	NM_022435	ref Mus musculus trans-acting transcription factor 5 (Sp5), mRNA [NM_022435]	0.41	0.047	1.000
ENSMUST00000111720	ENSMUST00000111720	ens angiopoietin-like 1 Gene [Source:MGI (curated);Acc:MGI:1919963] [ENSMUST00000111720]	0.41	0.009	0.720
Gm606	NM_001013761	ref Mus musculus predicted gene 606 (Gm606), mRNA [NM_001013761]	0.41	0.028	0.983
chr16:9249688-9275013_F	chr16:9249688-9275013_F	lincRNA:chr16:9249688-9275013 forward strand	0.40	0.039	1.000
chr18:61798876-61807452_R	chr18:61798876-61807452_R	lincRNA:chr18:61798876-61807452 reverse strand	0.40	0.008	0.705
chr4:105035450-105059250_F	chr4:105035450-105059250_F	lincRNA:chr4:105035450-105059250 forward strand	0.40	0.004	0.516
LOC100047984	XM_001479289	ref PREDICTED: Mus musculus similar to HVEC cell-cell adhesion molecule/herpesvirus receptor; HveC; PRR; PRR1; HigR; nectin-1 (LOC100047984), mRNA [XM_001479289]	0.40	0.041	1.000
1700003M07Rik	XM_001473353	ref PREDICTED: Mus musculus RIKEN cDNA 1700003M07 gene (1700003M07Rik), mRNA [XM_001473353]	0.40	0.030	0.998
chr12:4581550-4599600_F	chr12:4581550-4599600_F	lincRNA:chr12:4581550-4599600 forward strand	0.40	0.008	0.694
chr10:120116843-120182671_R	chr10:120116843-120182671_R	lincRNA:chr10:120116843-120182671 reverse strand	0.40	0.047	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
chr19:23068397-23190256_F	chr19:23068397-23190256_F	lincRNA:chr19:23068397-23190256 forward strand	0.40	0.033	1.000
Nxf7	NM_130888	ref Mus musculus nuclear RNA export factor 7 (Nxf7), mRNA [NM_130888]	0.40	0.010	0.747
chr9:51905865-51911474_R	chr9:51905865-51911474_R	lincRNA:chr9:51905865-51911474 reverse strand	0.40	0.026	0.973
Vmn2r5	NM_001104618	ref Mus musculus vomeronasal 2, receptor 5 (Vmn2r5), mRNA [NM_001104618]	0.40	0.015	0.831
chr17:17315025-17460175_R	chr17:17315025-17460175_R	lincRNA:chr17:17315025-17460175 reverse strand	0.40	0.012	0.786
Olfir564	NM_146359	ref Mus musculus olfactory receptor 564 (Olfir564), mRNA [NM_146359]	0.40	0.046	1.000
chr9:89167172-89168980_F	chr9:89167172-89168980_F	lincRNA:chr9:89167172-89168980 forward strand	0.40	0.048	1.000
chr1:167802183-167805411_F	chr1:167802183-167805411_F	lincRNA:chr1:167802183-167805411 forward strand	0.40	0.047	1.000
chr8:26212577-26218527_R	chr8:26212577-26218527_R	lincRNA:chr8:26212577-26218527 reverse strand	0.39	0.049	1.000
Scarf1	NM_001004157	ref Mus musculus scavenger receptor class F, member 1 (Scarf1), mRNA [NM_001004157]	0.39	0.021	0.904
ENSMUST00000118036	ENSMUST00000118036	ens transmembrane emp24 protein transport domain containing 5 Gene [Source:MGI (curated);Acc:MGI:1921586] [ENSMUST00000118036]	0.39	0.022	0.921
Arrdc4	NM_001042592	ref Mus musculus arrestin domain containing 4 (Arrdc4), transcript variant 1, mRNA [NM_001042592]	0.39	0.002	0.343
Fam83a	NM_173862	ref Mus musculus family with sequence similarity 83, member A (Fam83a), mRNA [NM_173862]	0.39	0.018	0.865
ENSMUST0000011270	ENSMUST0000011270	ens RIKEN cDNA 4631405J19 gene Gene [Source:MGI Symbol;Acc:MGI:3045383] [ENSMUST0000011270]	0.39	0.011	0.770
1810041L15Rik	NM_001163145	ref Mus musculus RIKEN cDNA 1810041L15 gene (1810041L15Rik), mRNA [NM_001163145]	0.39	0.019	0.881
chr18:75448313-75456983_R	chr18:75448313-75456983_R	lincRNA:chr18:75448313-75456983 reverse strand	0.39	0.007	0.664
G0s2	NM_008059	ref Mus musculus G0/G1 switch gene 2 (G0s2), mRNA [NM_008059]	0.39	0.030	0.998
F830223B06Rik	AK157552	gb Mus musculus activated spleen cDNA, RIKEN full-length enriched library, clone:F830223B06 product:hypothetical protein, full insert sequence. [AK157552]	0.39	0.006	0.624
Ntrk1	NM_001033124	ref Mus musculus neurotrophic tyrosine kinase, receptor, type 1 (Ntrk1), mRNA [NM_001033124]	0.39	0.013	0.793
chr4:114627748-114632898_F	chr4:114627748-114632898_F	lincRNA:chr4:114627748-114632898 forward strand	0.39	0.007	0.676
chr5:119945358-119962612_F	chr5:119945358-119962612_F	lincRNA:chr5:119945358-119962612 forward strand	0.38	0.006	0.624
Aars	NM_146217	ref Mus musculus alanyl-tRNA synthetase (Aars), mRNA [NM_146217]	0.38	0.014	0.825
ENSMUST00000088320	ENSMUST00000088320	ens brain-specific angiogenesis inhibitor 3 Gene [Source:MGI (curated);Acc:MGI:2441837] [ENSMUST00000088320]	0.38	0.040	1.000
Gm13939	NR_033473	ref Mus musculus predicted gene 13939 (Gm13939), non-coding RNA [NR_033473]	0.38	0.032	1.000
Rap1gap	NM_001081155	ref Mus musculus Rap1 GTPase-activating protein (Rap1gap), mRNA [NM_001081155]	0.38	0.019	0.883
chr5:120269342-120279542_R	chr5:120269342-120279542_R	lincRNA:chr5:120269342-120279542 reverse strand	0.38	0.002	0.385
ENSMUST00000050584	ENSMUST00000050584	ens RIKEN cDNA 0610010O12 gene Gene [Source:MGI Symbol;Acc:MGI:1913310] [ENSMUST00000050584]	0.38	0.033	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
chr6:3283191-3284581_R	chr6:3283191-3284581_R	lincRNA:chr6:3283191-3284581 reverse strand	0.38	0.011	0.774
ENSMUST00000097515	ENSMUST00000097515	ens RIKEN cDNA F830208F22 gene Gene [Source:MGI Symbol;Acc:MGI:3588261] [ENSMUST00000097515]	0.38	0.031	1.000
Ttyh2	NM_053273	ref Mus musculus tweety homolog 2 (Drosophila) (Ttyh2), mRNA [NM_053273]	0.38	0.048	1.000
Gm4077	XM_001478945	ref PREDICTED: Mus musculus similar to retinitis pigmentosa GTPase regulator interacting protein 1 (LOC100042863), mRNA [XM_001478945]	0.38	0.028	0.983
Spsb4	NM_145134	ref Mus musculus splanchnic/ryanodine receptor domain and SOCS box containing 4 (Spsb4), mRNA [NM_145134]	0.38	0.045	1.000
chr17:6817346-6819981_F	chr17:6817346-6819981_F	lincRNA:chr17:6817346-6819981 forward strand	0.38	0.025	0.966
Zbp1	NM_021394	ref Mus musculus Z-DNA binding protein 1 (Zbp1), transcript variant 1, mRNA [NM_021394]	0.38	0.024	0.957
ENSMUST00000115074	ENSMUST00000115074	ens ATP-binding cassette, sub-family B (MDR/TAP), member 8 Gene [Source:MGI (curated);Acc:MGI:1351667] [ENSMUST00000115074]	0.38	0.003	0.457
Slc17a4	NM_177016	ref Mus musculus solute carrier family 17 (sodium phosphate), member 4 (Slc17a4), mRNA [NM_177016]	0.37	0.028	0.983
Arhgap11a	NM_181416	ref Mus musculus Rho GTPase activating protein 11A (Arhgap11a), mRNA [NM_181416]	0.37	0.044	1.000
Olf117	NM_207155	ref Mus musculus olfactory receptor 117 (Olf117), mRNA [NM_207155]	0.37	0.005	0.606
AW125646	AW125646	gb UI-M-BH2.2-aqi-a-12-0-UI.s1 NIH_BMAP_M_S3.2 Mus musculus cDNA clone UI-M-BH2.2-aqi-a-12-0-UI 3'. [AW125646]	0.37	0.034	1.000
Pnma2	NM_175498	ref Mus musculus paraneoplastic antigen MA2 (Pnma2), mRNA [NM_175498]	0.37	0.017	0.858
4930550L24Rik	NM_023774	ref Mus musculus RIKEN cDNA 4930550L24 gene (4930550L24Rik), mRNA [NM_023774]	0.37	0.010	0.764
Fam78b	NM_001160262	ref Mus musculus family with sequence similarity 78, member B (Fam78b), transcript variant 1, mRNA [NM_001160262]	0.37	0.047	1.000
chr9:41213456-41340170_R	chr9:41213456-41340170_R	lincRNA:chr9:41213456-41340170 reverse strand	0.37	0.042	1.000
Egr1	NM_007913	ref Mus musculus early growth response 1 (Egr1), mRNA [NM_007913]	0.37	0.032	1.000
chr19:59498190-59531390_R	chr19:59498190-59531390_R	lincRNA:chr19:59498190-59531390 reverse strand	0.37	0.047	1.000
ENSMUST00000107861	ENSMUST00000107861	ens carbonic anhydrase 10 Gene [Source:MGI (curated);Acc:MGI:1919855] [ENSMUST00000107861]	0.36	0.019	0.882
ENSMUST00000110244	ENSMUST00000110244	ens exostoses (multiple) 1 Gene [Source:MGI (curated);Acc:MGI:894663] [ENSMUST00000110244]	0.36	0.041	1.000
chr17:5795893-5835243_R	chr17:5795893-5835243_R	lincRNA:chr17:5795893-5835243 reverse strand	0.36	0.013	0.802
Sh3gl3	NM_017400	ref Mus musculus SH3-domain GRB2-like 3 (Sh3gl3), mRNA [NM_017400]	0.36	0.010	0.746
Irx5	NM_018826	ref Mus musculus Iroquois related homeobox 5 (Drosophila) (Irx5), mRNA [NM_018826]	0.36	0.042	1.000
3830431G21Rik	NM_001177503	ref Mus musculus RIKEN cDNA 3830431G21 gene (3830431G21Rik), mRNA [NM_001177503]	0.36	0.049	1.000
Gm8286	XM_001478140	ref PREDICTED: Mus musculus predicted gene, EG666784 (EG666784), mRNA [XM_001478140]	0.36	0.013	0.802
chr13:34186976-34210579_F	chr13:34186976-34210579_F	lincRNA:chr13:34186976-34210579 forward strand	0.36	0.015	0.830
Opn3	NM_010098	ref Mus musculus opsin 3 (Opn3), mRNA [NM_010098]	0.36	0.013	0.793
chr8:74439200-74441363_F	chr8:74439200-74441363_F	lincRNA:chr8:74439200-74441363 forward strand	0.36	0.033	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Lamb3	NM_008484	ref Mus musculus laminin, beta 3 (Lamb3), mRNA [NM_008484]	0.36	0.025	0.958
ENSMUST00000098237	ENSMUST00000098237	ens RIKEN cDNA 3200002M19 gene Gene [Source:MGI Symbol;Acc:MGI:1922680] [ENSMUST00000098237]	0.36	0.016	0.848
chr10:81165750-81236400_F	chr10:81165750-81236400_F	lincRNA:chr10:81165750-81236400 forward strand	0.36	0.047	1.000
ENSMUST00000119373	ENSMUST00000119373	ens GRAM domain containing 1B Gene [Source:MGI (curated);Acc:MGI:1925037] [ENSMUST00000119373]	0.36	0.003	0.459
D030062011Rik	AK141776	gb Mus musculus 9 days embryo whole body cDNA, RIKEN full-length enriched library, clone:D030062011 product:hypothetical protein, full insert sequence. [AK141776]	0.36	0.043	1.000
Il18rap	NM_010553	ref Mus musculus interleukin 18 receptor accessory protein (Il18rap), mRNA [NM_010553]	0.36	0.017	0.858
chr5:107503800-107515575_R	chr5:107503800-107515575_R	lincRNA:chr5:107503800-107515575 reverse strand	0.36	0.037	1.000
Zc3h8	NM_020594	ref Mus musculus zinc finger CCCH type containing 8 (Zc3h8), mRNA [NM_020594]	0.36	0.008	0.708
chr16:25059724-25069144_F	chr16:25059724-25069144_F	lincRNA:chr16:25059724-25069144 forward strand	0.36	0.009	0.737
Wfdc6b	NM_001012725	ref Mus musculus WAP four-disulfide core domain 6B (Wfdc6b), mRNA [NM_001012725]	0.36	0.013	0.802
4930419G24Rik	AK039415	gb Mus musculus adult male spinal cord cDNA, RIKEN full-length enriched library, clone:A330041C21 product:unclassifiable, full insert sequence. [AK039415]	0.36	0.048	1.000
Tmem20	NM_175507	ref Mus musculus transmembrane protein 20 (Tmem20), mRNA [NM_175507]	0.35	0.018	0.865
chr17:15357376-15385701_F	chr17:15357376-15385701_F	lincRNA:chr17:15357376-15385701 forward strand	0.35	0.029	0.986
Naa50	NM_028108	ref Mus musculus N(alpha)-acetyltransferase 50, NatE catalytic subunit (Naa50), mRNA [NM_028108]	0.35	0.019	0.881
1700060J05Rik	AK164818	gb Mus musculus 16 days neonate heart cDNA, RIKEN full-length enriched library, clone:D830045F20 product:unclassifiable, full insert sequence. [AK164818]	0.35	0.034	1.000
Rsph10b2	XM_205565	ref PREDICTED: Mus musculus RIKEN cDNA 4930526H21 gene, transcript variant 1 (4930526H21Rik), mRNA [XM_205565]	0.35	0.021	0.904
chr17:21787577-21828406_F	chr17:21787577-21828406_F	lincRNA:chr17:21787577-21828406 forward strand	0.35	0.024	0.957
Utp18	NM_001013375	ref Mus musculus UTP18, small subunit (SSU) processome component, homolog (yeast) (Utp18), mRNA [NM_001013375]	0.35	0.009	0.720
LOC100048765	XM_001481200	ref PREDICTED: Mus musculus similar to steroid sulfatase (LOC100048765), mRNA [XM_001481200]	0.35	0.004	0.516
chr3:143541356-143617738_R	chr3:143541356-143617738_R	lincRNA:chr3:143541356-143617738 reverse strand	0.35	0.047	1.000
chr9:96670035-96682896_F	chr9:96670035-96682896_F	lincRNA:chr9:96670035-96682896 forward strand	0.35	0.022	0.935
chr12:52950465-52950990_R	chr12:52950465-52950990_R	lincRNA:chr12:52950465-52950990 reverse strand	0.35	0.039	1.000
ENSMUST00000064804	ENSMUST00000064804	ens MCG148073Putative uncharacterized protein ; [Source:UniProtKB/TrEMBL;Acc:Q8C3B6] [ENSMUST00000064804]	0.34	0.031	0.998
Gm11214	XR_031348	ref PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate dehydrogenase (LOC667451), misc RNA [XR_031348]	0.34	0.010	0.756
chr2:48826955-48827592_F	chr2:48826955-48827592_F	lincRNA:chr2:48826955-48827592 forward strand	0.34	0.016	0.848
chr19:44651106-44657612_R	chr19:44651106-44657612_R	lincRNA:chr19:44651106-44657612 reverse strand	0.34	0.013	0.802

Online Supplemental Table IV: mG4H-Veh Only					
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
chr6:128389484-128403407_R	chr6:128389484-128403407_R	lincRNA:chr6:128389484-128403407 reverse strand	0.34	0.036	1.000
Myf5	NM_008656	ref Mus musculus myogenic factor 5 (Myf5), mRNA [NM_008656]	0.34	0.032	1.000
chr12:76744947-76778372_F	chr12:76744947-76778372_F	lincRNA:chr12:76744947-76778372 forward strand	0.34	0.038	1.000
chrX:54627918-54638568_F	chrX:54627918-54638568_F	lincRNA:chrX:54627918-54638568 forward strand	0.34	0.050	1.000
Ucn	NM_021290	ref Mus musculus urocortin (Ucn), mRNA [NM_021290]	0.34	0.036	1.000
Hbb-y	NM_008221	ref Mus musculus hemoglobin Y, beta-like embryonic chain (Hbb-y), mRNA [NM_008221]	0.34	0.031	0.998
ENSMUST00000089640	ENSMUST00000089640	ens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5B Gene [Source:MGI (curated);Acc:MGI:107555] [ENSMUST00000089640]	0.34	0.041	1.000
chr12:53669634-53672010_F	chr12:53669634-53672010_F	lincRNA:chr12:53669634-53672010 forward strand	0.33	0.043	1.000
chr2:143988645-143993945_R	chr2:143988645-143993945_R	lincRNA:chr2:143988645-143993945 reverse strand	0.33	0.012	0.793
Vta1	NM_025418	ref Mus musculus Vps20-associated 1 homolog (S. cerevisiae) (Vta1), mRNA [NM_025418]	0.33	0.037	1.000
ENSMUST00000094445	ENSMUST00000094445	ens RIKEN cDNA 9230110K08 gene Gene [Source:MGI Symbol;Acc:MGI:1925157] [ENSMUST00000094445]	0.33	0.003	0.434
chr9:88581073-88614403_R	chr9:88581073-88614403_R	lincRNA:chr9:88581073-88614403 reverse strand	0.33	0.046	1.000
Cbx7	NM_144811	ref Mus musculus chromobox homolog 7 (Cbx7), mRNA [NM_144811]	0.33	0.002	0.392
LOC100041834	XM_001477085	ref PREDICTED: Mus musculus hypothetical protein LOC100041834 (LOC100041834), mRNA [XM_001477085]	0.33	0.041	1.000
Adap1	NM_172723	ref Mus musculus ArfGAP with dual PH domains 1 (Adap1), mRNA [NM_172723]	0.33	0.004	0.569
ENSMUST00000055626	ENSMUST00000055626	ens RIKEN cDNA 4930473A06 gene Gene [Source:MGI Symbol;Acc:MGI:1922152] [ENSMUST00000055626]	0.33	0.036	1.000
Gm14066	XM_001481030	ref PREDICTED: Mus musculus hypothetical protein LOC100043792 (LOC100043792), mRNA [XM_001481030]	0.33	0.017	0.854
chr1:134867906-134885481_R	chr1:134867906-134885481_R	lincRNA:chr1:134867906-134885481 reverse strand	0.33	0.048	1.000
Kcng4	NM_025734	ref Mus musculus potassium voltage-gated channel, subfamily G, member 4 (Kcng4), mRNA [NM_025734]	0.33	0.011	0.773
Rps2-ps9	XR_002050	ref PREDICTED: Mus musculus predicted gene, EG666682 (EG666682), misc RNA [XR_002050]	0.33	0.038	1.000
ENSMUST00000114998	ENSMUST00000114998	ens X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound Gene [Source:MGI (curated);Acc:MGI:2180001] [ENSMUST00000114998]	0.33	0.034	1.000
chr6:4841700-4847400_F	chr6:4841700-4847400_F	lincRNA:chr6:4841700-4847400 forward strand	0.33	0.037	1.000
Gzmb	NM_013542	ref Mus musculus granzyme B (Gzmb), mRNA [NM_013542]	0.33	0.044	1.000
Zdhhc8	NM_172151	ref Mus musculus zinc finger, DHHC domain containing 8 (Zdhhc8), mRNA [NM_172151]	0.33	0.002	0.346
chr6:82608223-82669023_R	chr6:82608223-82669023_R	lincRNA:chr6:82608223-82669023 reverse strand	0.33	0.046	1.000
chr10:81589292-81626369_R	chr10:81589292-81626369_R	lincRNA:chr10:81589292-81626369 reverse strand	0.33	0.017	0.854
Msx3	NM_010836	ref Mus musculus homeobox, msh-like 3 (Msx3), mRNA [NM_010836]	0.33	0.049	1.000

Online Supplemental Table IV: mG4H-Veh Only					
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Cabp1	NM_013879	ref Mus musculus calcium binding protein 1 (Cabp1), mRNA [NM_013879]	0.33	0.027	0.983
chr10:33709588-33712046_R	chr10:33709588-33712046_R	lincRNA:chr10:33709588-33712046 reverse strand	0.33	0.013	0.812
chr17:27012442-27024356_F	chr17:27012442-27024356_F	lincRNA:chr17:27012442-27024356 forward strand	0.32	0.050	1.000
Fgf14	NM_010201	ref Mus musculus fibroblast growth factor 14 (Fgf14), transcript variant 1, mRNA [NM_010201]	0.32	0.036	1.000
Dusp8	NM_008748	ref Mus musculus dual specificity phosphatase 8 (Dusp8), mRNA [NM_008748]	0.32	0.011	0.766
Dact3	NM_001081655	ref Mus musculus dapper homolog 3, antagonist of beta-catenin (xenopus) (Dact3), mRNA [NM_001081655]	0.32	0.025	0.968
Polr3g	NM_001081176	ref Mus musculus polymerase (RNA) III (DNA directed) polypeptide G (Polr3g), mRNA [NM_001081176]	0.32	0.005	0.621
Bhlhe41	NM_024469	ref Mus musculus basic helix-loop-helix family, member e41 (Bhlhe41), mRNA [NM_024469]	0.32	0.031	0.998
chr1:82892851-82943201_R	chr1:82892851-82943201_R	lincRNA:chr1:82892851-82943201 reverse strand	0.32	0.043	1.000
Gm4056	XM_001478913	ref PREDICTED: Mus musculus similar to Paraneoplastic antigen MA2 (LOC100042835), mRNA [XM_001478913]	0.32	0.047	1.000
Lck	NM_010693	ref Mus musculus lymphocyte protein tyrosine kinase (Lck), transcript variant 2, mRNA [NM_010693]	0.32	0.043	1.000
Eif2c3	NM_153402	ref Mus musculus eukaryotic translation initiation factor 2C, 3 (Eif2c3), mRNA [NM_153402]	0.31	0.045	1.000
Bmpr1a	NM_009758	ref Mus musculus bone morphogenetic protein receptor, type 1A (Bmpr1a), mRNA [NM_009758]	0.31	0.001	0.215
chr8:27129927-27137444_F	chr8:27129927-27137444_F	lincRNA:chr8:27129927-27137444 forward strand	0.31	0.008	0.708
Hsh2d	NM_197944	ref Mus musculus hematopoietic SH2 domain containing (Hsh2d), mRNA [NM_197944]	0.31	0.047	1.000
4930589O11Rik	XM_899432	ref PREDICTED: Mus musculus RIKEN cDNA 4930589O11 gene (4930589O11Rik), mRNA [XM_899432]	0.31	0.044	1.000
Gm7129	XR_031903	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC634019), misc RNA [XR_031903]	0.31	0.002	0.357
Gm6981	NR_023357	ref Mus musculus predicted pseudogene 6981 (Gm6981), non-coding RNA [NR_023357]	0.31	0.012	0.789
Zfhx2	NM_001039198	ref Mus musculus zinc finger homeobox 2 (Zfhx2), mRNA [NM_001039198]	0.31	0.047	1.000
Rap1gap	NM_001081155	ref Mus musculus Rap1 GTPase-activating protein (Rap1gap), mRNA [NM_001081155]	0.31	0.050	1.000
chr1:36012298-36020311_R	chr1:36012298-36020311_R	lincRNA:chr1:36012298-36020311 reverse strand	0.31	0.049	1.000
Ralgapa2	ENSMUST00000109986	ens Ral GTPase activating protein, alpha subunit 2 (catalytic) Gene [Source:MGI (curated);Acc:MGI:3036245] [ENSMUST00000109986]	0.30	0.020	0.885
Slc30a10	NM_001033286	ref Mus musculus solute carrier family 30, member 10 (Slc30a10), mRNA [NM_001033286]	0.30	0.043	1.000
Ttc9b	NM_028417	ref Mus musculus tetratricopeptide repeat domain 9B (Ttc9b), mRNA [NM_028417]	0.30	0.038	1.000
chr18:35973241-35973632_F	chr18:35973241-35973632_F	lincRNA:chr18:35973241-35973632 forward strand	0.30	0.019	0.883
Slmo1	NM_144867	ref Mus musculus slowmo homolog 1 (Drosophila) (Slmo1), mRNA [NM_144867]	0.30	0.030	0.998
ENSMUST00000084298	ENSMUST00000084298	ens RIKEN cDNA 2610044O15 gene Gene [Source:MGI Symbol;Acc:MGI:1919389] [ENSMUST00000084298]	0.30	0.007	0.672

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
chr1:153685487-153710962_F	chr1:153685487-153710962_F	lincRNA:chr1:153685487-153710962 forward strand	0.30	0.047	1.000
chr17:32213375-32238425_F	chr17:32213375-32238425_F	lincRNA:chr17:32213375-32238425 forward strand	0.30	0.050	1.000
chr3:21964899-21974885_F	chr3:21964899-21974885_F	lincRNA:chr3:21964899-21974885 forward strand	0.30	0.034	1.000
Gipr	NM_001080815	ref Mus musculus gastric inhibitory polypeptide receptor (Gipr), mRNA [NM_001080815]	0.30	0.030	0.994
Myo19	NM_025414	ref Mus musculus myosin XIX (Myo19), mRNA [NM_025414]	0.30	0.025	0.970
Klrc3	NM_021378	ref Mus musculus killer cell lectin-like receptor subfamily C, member 3 (Klrc3), mRNA [NM_021378]	0.30	0.041	1.000
Usp35	NM_001177412	ref Mus musculus ubiquitin specific peptidase 35 (Usp35), mRNA [NM_001177412]	0.29	0.034	1.000
chr1:92412246-92423471_R	chr1:92412246-92423471_R	lincRNA:chr1:92412246-92423471 reverse strand	0.29	0.024	0.957
Trim16	NM_053169	ref Mus musculus tripartite motif-containing 16 (Trim16), mRNA [NM_053169]	0.29	0.030	0.998
1700024P04Rik	NM_027064	ref Mus musculus RIKEN cDNA 1700024P04 gene (1700024P04Rik), mRNA [NM_027064]	0.29	0.046	1.000
chr17:88890039-88905680_F	chr17:88890039-88905680_F	lincRNA:chr17:88890039-88905680 forward strand	0.29	0.023	0.935
Clec4g	NM_029465	ref Mus musculus C-type lectin domain family 4, member g (Clec4g), mRNA [NM_029465]	0.29	0.036	1.000
chr14:44284425-44300475_F	chr14:44284425-44300475_F	lincRNA:chr14:44284425-44300475 forward strand	0.29	0.017	0.858
chr5:143676800-143704125_F	chr5:143676800-143704125_F	lincRNA:chr5:143676800-143704125 forward strand	0.29	0.048	1.000
Dnmbp	NM_028029	ref Mus musculus dynamin binding protein (Dnmbp), mRNA [NM_028029]	0.29	0.034	1.000
Tomm70a	ENSMUST00000023433	ens translocase of outer mitochondrial membrane 70 homolog A (yeast) Gene [Source:MGI Symbol;Acc:MGI:106295] [ENSMUST00000023433]	0.29	0.032	1.000
Lgr5	NM_010195	ref Mus musculus leucine rich repeat containing G protein coupled receptor 5 (Lgr5), mRNA [NM_010195]	0.29	0.040	1.000
chr5:26323150-26357875_R	chr5:26323150-26357875_R	lincRNA:chr5:26323150-26357875 reverse strand	0.29	0.046	1.000
Chrng	NM_009604	ref Mus musculus cholinergic receptor, nicotinic, gamma polypeptide (Chrng), mRNA [NM_009604]	0.29	0.008	0.708
Xk	NM_023500	ref Mus musculus Kell blood group precursor (McLeod phenotype) homolog (Xk), mRNA [NM_023500]	0.29	0.001	0.287
Pkdcc	NM_134117	ref Mus musculus protein kinase domain containing, cytoplasmic (Pkdcc), mRNA [NM_134117]	0.29	0.010	0.762
chr15:92174226-92201201_F	chr15:92174226-92201201_F	lincRNA:chr15:92174226-92201201 forward strand	0.28	0.021	0.916
Gm5142	NM_001004158	ref Mus musculus predicted gene 5142 (Gm5142), mRNA [NM_001004158]	0.28	0.048	1.000
Slc25a12	NM_172436	ref Mus musculus solute carrier family 25 (mitochondrial carrier, Aralar), member 12 (Slc25a12), nuclear gene encoding mitochondrial protein, mRNA [NM_172436]	0.28	0.003	0.439
chr6:131263850-131314850_F	chr6:131263850-131314850_F	lincRNA:chr6:131263850-131314850 forward strand	0.28	0.034	1.000
chr13:94180737-94182912_F	chr13:94180737-94182912_F	lincRNA:chr13:94180737-94182912 forward strand	0.28	0.002	0.395
Gm11517	NR_033523	ref Mus musculus predicted gene 11517 (Gm11517), non-coding RNA [NR_033523]	0.28	0.047	1.000
chr18:82862340-82875566_F	chr18:82862340-82875566_F	lincRNA:chr18:82862340-82875566 forward strand	0.28	0.035	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Mrm1	NM_145433	ref Mus musculus mitochondrial rRNA methyltransferase 1 homolog (S. cerevisiae) (Mrm1), nuclear gene encoding mitochondrial protein, mRNA [NM_145433]	0.28	0.008	0.694
chr13:54399275-54445825_R	chr13:54399275-54445825_R	lincRNA:chr13:54399275-54445825 reverse strand	0.28	0.045	1.000
chr12:106566735-106624460_R	chr12:106566735-106624460_R	lincRNA:chr12:106566735-106624460 reverse strand	0.28	0.043	1.000
chr15:77575125-77585575_F	chr15:77575125-77585575_F	lincRNA:chr15:77575125-77585575 forward strand	0.28	0.040	1.000
2010300C02Rik	NM_028096	ref Mus musculus RIKEN cDNA 2010300C02 gene (2010300C02Rik), mRNA [NM_028096]	0.28	0.024	0.957
chr17:22916801-22954670_R	chr17:22916801-22954670_R	lincRNA:chr17:22916801-22954670 reverse strand	0.28	0.045	1.000
Sardh	NM_138665	ref Mus musculus sarcosine dehydrogenase (Sardh), nuclear gene encoding mitochondrial protein, mRNA [NM_138665]	0.28	0.030	0.998
Otop2	NM_172801	ref Mus musculus otopenin 2 (Otop2), mRNA [NM_172801]	0.28	0.033	1.000
Tmem39b	NM_199305	ref Mus musculus transmembrane protein 39b (Tmem39b), mRNA [NM_199305]	0.27	0.017	0.854
Gm7765	XR_032105	ref PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate dehydrogenase (LOC665743), misc RNA [XR_032105]	0.27	0.025	0.957
Fut4	NM_010242	ref Mus musculus fucosyltransferase 4 (Fut4), mRNA [NM_010242]	0.27	0.037	1.000
chr1:194659312-194661407_R	chr1:194659312-194661407_R	lincRNA:chr1:194659312-194661407 reverse strand	0.27	0.041	1.000
Cdk18	NM_008795	ref Mus musculus cyclin-dependent kinase 18 (Cdk18), mRNA [NM_008795]	0.27	0.005	0.621
Dennd2d	NM_028110	ref Mus musculus DENN/MADD domain containing 2D (Dennd2d), transcript variant 1, mRNA [NM_028110]	0.27	0.045	1.000
Gm9081	XR_030920	ref PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate dehydrogenase (LOC668275), misc RNA [XR_030920]	0.27	0.010	0.747
Slc25a37	NM_026331	ref Mus musculus solute carrier family 25, member 37 (Slc25a37), nuclear gene encoding mitochondrial protein, mRNA [NM_026331]	0.27	0.045	1.000
Arr3	NM_133205	ref Mus musculus arrestin 3, retinal (Arr3), mRNA [NM_133205]	0.27	0.043	1.000
Ttc37	NM_001081352	ref Mus musculus tetratricopeptide repeat domain 37 (Ttc37), mRNA [NM_001081352]	0.27	0.032	1.000
Gm5652	XR_034553	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC435292), misc RNA [XR_034553]	0.27	0.036	1.000
Zdhhc3	NM_026917	ref Mus musculus zinc finger, DHHC domain containing 3 (Zdhhc3), mRNA [NM_026917]	0.27	0.042	1.000
chr7:66926500-66952100_F	chr7:66926500-66952100_F	lincRNA:chr7:66926500-66952100 forward strand	0.27	0.020	0.885
Gm6816	ENSMUST00000059737	ref PREDICTED: Mus musculus predicted gene, EG627967 (EG627967), mRNA [XM_892675]	0.27	0.013	0.794
chr17:8088950-8106700_F	chr17:8088950-8106700_F	lincRNA:chr17:8088950-8106700 forward strand	0.27	0.034	1.000
Fgf9	NM_013518	ref Mus musculus fibroblast growth factor 9 (Fgf9), mRNA [NM_013518]	0.27	0.003	0.440
Tbc1d24	NM_173186	ref Mus musculus TBC1 domain family, member 24 (Tbc1d24), transcript variant 4, mRNA [NM_173186]	0.26	0.026	0.970
chr5:23195569-23218551_R	chr5:23195569-23218551_R	lincRNA:chr5:23195569-23218551 reverse strand	0.26	0.037	1.000
Efr3a	NM_133766	ref Mus musculus EFR3 homolog A (S. cerevisiae) (Efr3a), mRNA [NM_133766]	0.26	0.048	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Mmd	ENSMUST000000004050	ens monocyte to macrophage differentiation-associated Gene [Source:MGI (curated);Acc:MGI:1914718] [ENSMUST000000004050]	0.26	0.028	0.986
Gm11960	XR_032345	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC100041006), misc RNA [XR_032345]	0.26	0.030	0.998
Wnk2	NM_029361	ref Mus musculus WNK lysine deficient protein kinase 2 (Wnk2), mRNA [NM_029361]	0.26	0.011	0.779
chr8:18895366-18925423_R	chr8:18895366-18925423_R	lincRNA:chr8:18895366-18925423 reverse strand	0.26	0.012	0.788
chr14:77006215-77063293_F	chr14:77006215-77063293_F	lincRNA:chr14:77006215-77063293 forward strand	0.26	0.011	0.777
2210020M01Rik	NM_183259	ref Mus musculus RIKEN cDNA 2210020M01 gene (2210020M01Rik), mRNA [NM_183259]	0.26	0.011	0.766
Gm8570	XM_001003594	ref PREDICTED: Mus musculus predicted gene, EG667314 (EG667314), mRNA [XM_001003594]	0.26	0.040	1.000
chr2:129416848-129417413_R	chr2:129416848-129417413_R	lincRNA:chr2:129416848-129417413 reverse strand	0.26	0.038	1.000
Anks1	NM_181413	ref Mus musculus ankyrin repeat and SAM domain containing 1 (Anks1), mRNA [NM_181413]	0.26	0.023	0.943
Gm4592	XM_001474740	ref PREDICTED: Mus musculus similar to CG31439-PA (LOC100045682), mRNA [XM_001474740]	0.26	0.026	0.973
Gm10386	ENSMUST00000100734	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q3V0K3] [ENSMUST00000100734]	0.26	0.032	1.000
Prrg1	NM_027322	ref Mus musculus proline rich Gla (G-carboxyglutamic acid) 1 (Prrg1), transcript variant 1, mRNA [NM_027322]	0.26	0.029	0.992
Lrp11	NM_172784	ref Mus musculus low density lipoprotein receptor-related protein 11 (Lrp11), mRNA [NM_172784]	0.26	0.018	0.863
NAP093863-001	NAP093863-001	Unknown	0.26	0.009	0.719
Gm6498	NR_003630	ref Mus musculus predicted gene 6498 (Gm6498), non-coding RNA [NR_003630]	0.25	0.015	0.831
Gm14277	XM_001475542	ref PREDICTED: Mus musculus similar to small nuclear riboprotein Sm-D, transcript variant 2 (LOC100045985), mRNA [XM_001475542]	0.25	0.027	0.976
Luzp1	NM_024452	ref Mus musculus leucine zipper protein 1 (Luzp1), mRNA [NM_024452]	0.25	0.047	1.000
chr4:114627748-114632898_R	chr4:114627748-114632898_R	lincRNA:chr4:114627748-114632898 reverse strand	0.25	0.015	0.831
chr2:143992000-143992611_F	chr2:143992000-143992611_F	lincRNA:chr2:143992000-143992611 forward strand	0.25	0.031	1.000
B3gnt4	NM_198611	ref Mus musculus UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 4 (B3gnt4), mRNA [NM_198611]	0.25	0.048	1.000
Cyp4f39	NM_177307	ref Mus musculus cytochrome P450, family 4, subfamily f, polypeptide 39 (Cyp4f39), mRNA [NM_177307]	0.25	0.048	1.000
Neu3	NM_016720	ref Mus musculus neuraminidase 3 (Neu3), mRNA [NM_016720]	0.25	0.039	1.000
chr9:46664272-46664689_F	chr9:46664272-46664689_F	lincRNA:chr9:46664272-46664689 forward strand	0.25	0.045	1.000
chr2:84427252-84428277_R	chr2:84427252-84428277_R	lincRNA:chr2:84427252-84428277 reverse strand	0.25	0.026	0.972
Ankrd33b	NM_027496	ref Mus musculus ankyrin repeat domain 33B (Ankrd33b), transcript variant 2, mRNA [NM_027496]	0.25	0.023	0.941
Zfp710	NM_175433	ref Mus musculus zinc finger protein 710 (Zfp710), transcript variant 1, mRNA [NM_175433]	0.25	0.004	0.559
Obfc2b	NM_027257	ref Mus musculus oligonucleotide/oligosaccharide-binding fold containing 2B (Obfc2b), mRNA [NM_027257]	0.25	0.035	1.000
1700081L11Rik	NM_001081045	ref Mus musculus RIKEN cDNA 1700081L11 gene (1700081L11Rik), mRNA [NM_001081045]	0.25	0.048	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Fbxl16	NM_001164225	ref Mus musculus F-box and leucine-rich repeat protein 16 (Fbxl16), mRNA [NM_001164225]	0.25	0.010	0.758
chr3:85589154-85621215_R	chr3:85589154-85621215_R	lincRNA:chr3:85589154-85621215 reverse strand	0.25	0.016	0.851
1700023D19Rik	NM_029317	ref Mus musculus RIKEN cDNA 1700023D19 gene (1700023D19Rik), mRNA [NM_029317]	0.24	0.048	1.000
Ncl	NM_010880	ref Mus musculus nucleolin (Ncl), mRNA [NM_010880]	0.24	0.035	1.000
Tns4	NM_172564	ref Mus musculus tensin 4 (Tns4), mRNA [NM_172564]	0.24	0.031	1.000
ENSMUST00000110374	ENSMUST00000110374	ens START domain containing 7 Gene [Source:MGI (curated);Acc:MGI:2139090] [ENSMUST00000110374]	0.24	0.021	0.909
chr11:3538125-3554450_R	chr11:3538125-3554450_R	lincRNA:chr11:3538125-3554450 reverse strand	0.24	0.045	1.000
chr17:84470764-84486339_R	chr17:84470764-84486339_R	lincRNA:chr17:84470764-84486339 reverse strand	0.24	0.050	1.000
Zfp617	NM_133358	ref Mus musculus zinc finger protein 617 (Zfp617), mRNA [NM_133358]	0.24	0.019	0.883
chr14:77006215-77063293_F	chr14:77006215-77063293_F	lincRNA:chr14:77006215-77063293 forward strand	0.24	0.019	0.880
chr7:113768215-113783490_R	chr7:113768215-113783490_R	lincRNA:chr7:113768215-113783490 reverse strand	0.24	0.031	0.999
Pcp4l1	NM_025557	ref Mus musculus Purkinje cell protein 4-like 1 (Pcp4l1), mRNA [NM_025557]	0.24	0.028	0.983
Nfic	NM_008688	ref Mus musculus nuclear factor I/C (Nfic), transcript variant 1, mRNA [NM_008688]	0.23	0.004	0.538
Trak1	NM_175114	ref Mus musculus trafficking protein, kinesin binding 1 (Trak1), mRNA [NM_175114]	0.23	0.012	0.786
chr17:17481706-17482457_R	chr17:17481706-17482457_R	lincRNA:chr17:17481706-17482457 reverse strand	0.23	0.048	1.000
Gtf2ird1	NM_020331	ref Mus musculus general transcription factor II I repeat domain-containing 1 (Gtf2ird1), transcript variant 1, mRNA [NM_020331]	0.23	0.027	0.983
Mthfsd	NM_172761	ref Mus musculus methenyltetrahydrofolate synthetase domain containing (Mthfsd), transcript variant 2, mRNA [NM_172761]	0.23	0.019	0.881
ENSMUST00000068960	ENSMUST00000068960	ens RIKEN cDNA D830050J10 gene Gene [Source:MGI Symbol;Acc:MGI:2444203] [ENSMUST00000068960]	0.23	0.005	0.582
Gch1	NM_008102	ref Mus musculus GTP cyclohydrolase 1 (Gch1), mRNA [NM_008102]	0.23	0.036	1.000
Pmm1	NM_013872	ref Mus musculus phosphomannomutase 1 (Pmm1), mRNA [NM_013872]	0.23	0.042	1.000
Pop1	NM_152894	ref Mus musculus processing of precursor 1, ribonuclease P/MRP family, (S. cerevisiae) (Pop1), transcript variant 1, mRNA [NM_152894]	0.23	0.016	0.848
Ube2d1	NM_145420	ref Mus musculus ubiquitin-conjugating enzyme E2D 1, UBC4/5 homolog (yeast) (Ube2d1), mRNA [NM_145420]	0.23	0.018	0.876
D430042O09Rik	NM_001081022	ref Mus musculus RIKEN cDNA D430042O09 gene (D430042O09Rik), mRNA [NM_001081022]	0.23	0.017	0.854
Ocrl	NM_177215	ref Mus musculus oculocerebrorenal syndrome of Lowe (Ocrl), mRNA [NM_177215]	0.23	0.040	1.000
1190002N15Rik	NM_001033145	ref Mus musculus RIKEN cDNA 1190002N15 gene (1190002N15Rik), mRNA [NM_001033145]	0.23	0.048	1.000
Brwd3	NM_001081477	ref Mus musculus bromodomain and WD repeat domain containing 3 (Brwd3), mRNA [NM_001081477]	0.23	0.047	1.000
Slc39a13	NM_026721	ref Mus musculus solute carrier family 39 (metal ion transporter), member 13 (Slc39a13), mRNA [NM_026721]	0.23	0.007	0.686
BC030336	NM_001164580	ref Mus musculus cDNA sequence BC030336 (BC030336), mRNA [NM_001164580]	0.23	0.021	0.904
chr5:34696192-34722842_F	chr5:34696192-34722842_F	lincRNA:chr5:34696192-34722842 forward strand	0.23	0.039	1.000

Online Supplemental Table IV: mG4H-Veh Only					
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Serac1	NM_001111017	ref Mus musculus serine active site containing 1 (Serac1), transcript variant 3, mRNA [NM_001111017]	0.22	0.031	0.998
Poc5	NM_026173	ref Mus musculus POC5 centriolar protein homolog (Chlamydomonas) (Poc5), mRNA [NM_026173]	0.22	0.026	0.970
Wnk2	NM_029361	ref Mus musculus WNK lysine deficient protein kinase 2 (Wnk2), mRNA [NM_029361]	0.22	0.013	0.799
Kbtbd12	NM_001142724	ref Mus musculus kelch repeat and BTB (POZ) domain containing 12 (Kbtbd12), transcript variant 1, mRNA [NM_001142724]	0.22	0.028	0.985
LOC637578	XR_034610	ref PREDICTED: Mus musculus similar to Chain A, The Solution Structure Of The Ref2-l Mrna Export Factor (Residues 1-155). (LOC637578), misc RNA [XR_034610]	0.22	0.043	1.000
En1	NM_010133	ref Mus musculus engrailed 1 (En1), mRNA [NM_010133]	0.22	0.016	0.848
Ddhd2	NM_028102	ref Mus musculus DDHD domain containing 2 (Ddhd2), mRNA [NM_028102]	0.22	0.007	0.683
chr6:50361567-50406200_R	chr6:50361567-50406200_R	lincRNA:chr6:50361567-50406200 reverse strand	0.22	0.032	1.000
Gpam	NM_008149	ref Mus musculus glycerol-3-phosphate acyltransferase, mitochondrial (Gpam), nuclear gene encoding mitochondrial protein, mRNA [NM_008149]	0.22	0.014	0.825
chr18:36449530-36456800_R	chr18:36449530-36456800_R	lincRNA:chr18:36449530-36456800 reverse strand	0.22	0.045	1.000
Gm12247	XR_033143	ref PREDICTED: Mus musculus similar to RIKEN cDNA A430005L14 gene (LOC667947), misc RNA [XR_033143]	0.22	0.017	0.858
AI846148	NM_001033139	ref Mus musculus expressed sequence AI846148 (AI846148), transcript variant 1, mRNA [NM_001033139]	0.22	0.033	1.000
chr11:116936834-116948799_R	chr11:116936834-116948799_R	lincRNA:chr11:116936834-116948799 reverse strand	0.22	0.032	1.000
Dysf	NM_001077694	ref Mus musculus dysferlin (Dysf), transcript variant 2, mRNA [NM_001077694]	0.22	0.023	0.943
Tmem135	NM_028343	ref Mus musculus transmembrane protein 135 (Tmem135), mRNA [NM_028343]	0.22	0.024	0.957
LOC100047141	XM_001477615	ref PREDICTED: Mus musculus hypothetical protein LOC100047141 (LOC100047141), mRNA [XM_001477615]	0.21	0.043	1.000
Gm8503	XR_002058	ref PREDICTED: Mus musculus predicted gene, EG667190 (EG667190), misc RNA [XR_002058]	0.21	0.038	1.000
Hmcn1	NM_001024720	ref Mus musculus hemicentin 1 (Hmcn1), mRNA [NM_001024720]	0.21	0.047	1.000
Wnt9a	NM_139298	ref Mus musculus wingless-type MMTV integration site 9A (Wnt9a), mRNA [NM_139298]	0.21	0.041	1.000
chr17:88993214-89025839_F	chr17:88993214-89025839_F	lincRNA:chr17:88993214-89025839 forward strand	0.21	0.033	1.000
Gm7520	XR_031035	ref PREDICTED: Mus musculus similar to MGC27348 protein (LOC665154), misc RNA [XR_031035]	0.21	0.041	1.000
LOC100048247	XM_001480121	ref PREDICTED: Mus musculus similar to polycomb group ring finger 5, transcript variant 2 (LOC100048247), mRNA [XM_001480121]	0.21	0.041	1.000
1810029B16Rik	NM_025465	ref Mus musculus RIKEN cDNA 1810029B16 gene (1810029B16Rik), mRNA [NM_025465]	0.21	0.015	0.830
LOC100048107	XR_034253	ref PREDICTED: Mus musculus similar to Zfand3 protein (LOC100048107), misc RNA [XR_034253]	0.21	0.022	0.920
Stbd1	NM_175096	ref Mus musculus starch binding domain 1 (Stbd1), mRNA [NM_175096]	0.21	0.047	1.000
Tfpi	NM_011576	ref Mus musculus tissue factor pathway inhibitor (Tfpi), transcript variant 1, mRNA [NM_011576]	0.21	0.030	0.998
ENSMUST00000071399	ENSMUST00000071399	ens pregnancy specific glycoprotein 16 Gene [Source:MGI (curated);Acc:MGI:1347249] [ENSMUST00000071399]	0.21	0.029	0.989

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Scrib	NM_134089	ref Mus musculus scribbled homolog (Drosophila) (Scrib), mRNA [NM_134089]	0.21	0.035	1.000
Ptp4a2	NM_008974	ref Mus musculus protein tyrosine phosphatase 4a2 (Ptp4a2), transcript variant 1, mRNA [NM_008974]	0.21	0.025	0.965
Mga	NM_013720	ref Mus musculus MAX gene associated (Mga), transcript variant 1, mRNA [NM_013720]	0.20	0.043	1.000
Slco3a1	NM_001038643	ref Mus musculus solute carrier organic anion transporter family, member 3a1 (Slco3a1), transcript variant 2, mRNA [NM_001038643]	0.20	0.030	0.998
Bcl2l13	NM_153516	ref Mus musculus BCL2-like 13 (apoptosis facilitator) (Bcl2l13), nuclear gene encoding mitochondrial protein, mRNA [NM_153516]	0.20	0.019	0.881
Mthfd2l	NM_026788	ref Mus musculus methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2-like (Mthfd2l), mRNA [NM_026788]	0.20	0.018	0.865
Bpnt1	NM_011794	ref Mus musculus bisphosphate 3'-nucleotidase 1 (Bpnt1), mRNA [NM_011794]	0.20	0.036	1.000
Ints10	NM_027590	ref Mus musculus integrator complex subunit 10 (Ints10), mRNA [NM_027590]	0.20	0.025	0.966
Sac3d1	NM_133678	ref Mus musculus SAC3 domain containing 1 (Sac3d1), mRNA [NM_133678]	0.20	0.018	0.869
Tspan9	NM_175414	ref Mus musculus tetraspanin 9 (Tspan9), mRNA [NM_175414]	0.20	0.043	1.000
Mpi	NM_025837	ref Mus musculus mannose phosphate isomerase (Mpi), mRNA [NM_025837]	0.20	0.016	0.848
Efcab4a	AK140493	gb Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:B930011K17 product:unclassifiable, full insert sequence. [AK140493]	0.20	0.030	0.998
1700093J21Rik	CB244741	gb UI-M-FY0-cdr-d-09-0-UI.r1 NIH_BMAP_FY0 Mus musculus cDNA clone IMAGE: 6833338 5', mRNA sequence [CB244741]	0.20	0.044	1.000
Il15ra	NM_133836	ref Mus musculus interleukin 15 receptor, alpha chain (Il15ra), transcript variant 2, mRNA [NM_133836]	0.20	0.048	1.000
Oxa1l	NM_026936	ref Mus musculus oxidase assembly 1-like (Oxa1l), mRNA [NM_026936]	0.19	0.025	0.969
Gm2451	XM_001473743	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH), transcript variant 1 (LOC100039840), mRNA [XM_001473743]	0.19	0.012	0.786
Fbxo10	NM_001024142	ref Mus musculus F-box protein 10 (Fbxo10), mRNA [NM_001024142]	0.19	0.028	0.983
Nudt4	NM_027722	ref Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 4 (Nudt4), mRNA [NM_027722]	0.19	0.042	1.000
chr13:94180737-94182912_F	chr13:94180737-94182912_F	lincRNA:chr13:94180737-94182912 forward strand	0.19	0.021	0.912
Ibtk	NM_001081282	ref Mus musculus inhibitor of Bruton agammaglobulinemia tyrosine kinase (Ibtk), mRNA [NM_001081282]	0.19	0.034	1.000
Manea	NM_172865	ref Mus musculus mannosidase, endo-alpha (Manea), mRNA [NM_172865]	0.19	0.048	1.000
Tcfe3	NM_172472	ref Mus musculus transcription factor E3 (Tcfe3), transcript variant 1, mRNA [NM_172472]	0.19	0.034	1.000
Slc25a5	NM_007451	ref Mus musculus solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (Slc25a5), nuclear gene encoding mitochondrial protein, mRNA [NM_007451]	0.19	0.038	1.000
Fgd1	NM_008001	ref Mus musculus FYVE, RhoGEF and PH domain containing 1 (Fgd1), mRNA [NM_008001]	0.19	0.036	1.000
Gm4795	XM_894477	ref PREDICTED: Mus musculus predicted gene, EG215974 (EG215974), mRNA [XM_894477]	0.19	0.033	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
1200016B10Rik	NM_025819	ref Mus musculus RIKEN cDNA 1200016B10 gene (1200016B10Rik), mRNA [NM_025819]	0.19	0.049	1.000
Wnt11	NM_009519	ref Mus musculus wingless-related MMTV integration site 11 (Wnt11), mRNA [NM_009519]	0.19	0.024	0.954
ENSMUST00000077293	ENSMUST00000077293	ens predicted gene 5785 Gene [Source:MGI Symbol;Acc:MGI:3643232] [ENSMUST00000077293]	0.19	0.032	1.000
4833439L19Rik	NM_133797	ref Mus musculus RIKEN cDNA 4833439L19 gene (4833439L19Rik), mRNA [NM_133797]	0.19	0.026	0.973
Lphn1	NM_181039	ref Mus musculus latrophilin 1 (Lphn1), mRNA [NM_181039]	0.18	0.038	1.000
chr4:82156098-82196298_F	chr4:82156098-82196298_F	lincRNA:chr4:82156098-82196298 forward strand	0.18	0.047	1.000
Wnk4	NM_175638	ref Mus musculus WNK lysine deficient protein kinase 4 (Wnk4), mRNA [NM_175638]	0.18	0.048	1.000
Slc22a5	NM_011396	ref Mus musculus solute carrier family 22 (organic cation transporter), member 5 (Slc22a5), mRNA [NM_011396]	0.18	0.043	1.000
chr16:77670599-77691642_F	chr16:77670599-77691642_F	lincRNA:chr16:77670599-77691642 forward strand	0.18	0.036	1.000
Itga7	NM_008398	ref Mus musculus integrin alpha 7 (Itga7), mRNA [NM_008398]	0.18	0.016	0.851
St6galnac6	NM_016973	ref Mus musculus ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 6 (St6galnac6), transcript variant 1, mRNA [NM_016973]	0.18	0.045	1.000
Zfp672	NM_178761	ref Mus musculus zinc finger protein 672 (Zfp672), transcript variant 1, mRNA [NM_178761]	0.18	0.030	0.998
6330416L07Rik	NM_176962	ref Mus musculus RIKEN cDNA 6330416L07 gene (6330416L07Rik), mRNA [NM_176962]	0.18	0.029	0.986
Txndc11	NM_029582	ref Mus musculus thioredoxin domain containing 11 (Txndc11), transcript variant 1, mRNA [NM_029582]	0.18	0.049	1.000
chr3:100363012-100369462_R	chr3:100363012-100369462_R	lincRNA:chr3:100363012-100369462 reverse strand	0.18	0.024	0.952
Tmem161a	NM_145597	ref Mus musculus transmembrane protein 161A (Tmem161a), mRNA [NM_145597]	0.18	0.048	1.000
Nfic	NM_008688	ref Mus musculus nuclear factor I/C (Nfic), transcript variant 1, mRNA [NM_008688]	0.18	0.028	0.983
ENSMUST00000096143	ENSMUST00000096143	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q7TNN1] [ENSMUST00000096143]	0.18	0.022	0.926
chr3:100363012-100369971_R	chr3:100363012-100369971_R	lincRNA:chr3:100363012-100369971 reverse strand	0.18	0.042	1.000
Mocs2	NM_013826	ref Mus musculus molybdenum cofactor synthesis 2 (Mocs2), transcript variant 1, mRNA [NM_013826]	0.18	0.020	0.897
Parm1	NM_145562	ref Mus musculus prostate androgen-regulated mucin-like protein 1 (Parm1), mRNA [NM_145562]	0.18	0.012	0.791
Prep	NM_011156	ref Mus musculus prolyl endopeptidase (Prep), mRNA [NM_011156]	0.17	0.031	0.998
Lrrfip1	NM_008515	ref Mus musculus leucine rich repeat (in FLII) interacting protein 1 (Lrrfip1), transcript variant 2, mRNA [NM_008515]	0.17	0.032	1.000
4833439L19Rik	NM_133797	ref Mus musculus RIKEN cDNA 4833439L19 gene (4833439L19Rik), mRNA [NM_133797]	0.17	0.030	0.998
Saps2	NM_027805	ref Mus musculus SAPS domain family, member 2 (Saps2), transcript variant 2, mRNA [NM_027805]	0.17	0.037	1.000
Gm5452	XR_033957	ref PREDICTED: Mus musculus similar to lactate dehydrogenase 1, A chain (LOC432789), misc RNA [XR_033957]	0.17	0.029	0.986
Zfp770	NM_175466	ref Mus musculus zinc finger protein 770 (Zfp770), mRNA [NM_175466]	0.17	0.042	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Gm8775	XR_030571	ref PREDICTED: Mus musculus similar to Murine homolog of human ftp-3 (LOC667709), misc RNA [XR_030571]	0.17	0.042	1.000
Nkx2-5	NM_008700	ref Mus musculus NK2 transcription factor related, locus 5 (Drosophila) (Nkx2-5), mRNA [NM_008700]	0.17	0.040	1.000
Paqr9	NM_198414	ref Mus musculus progesterin and adipoQ receptor family member IX (Paqr9), mRNA [NM_198414]	0.16	0.048	1.000
Bcorl1	NM_178782	ref Mus musculus BCL6 co-repressor-like 1 (Bcorl1), mRNA [NM_178782]	0.16	0.045	1.000
Nup54	NM_183392	ref Mus musculus nucleoporin 54 (Nup54), mRNA [NM_183392]	0.16	0.040	1.000
Pus7	NM_178403	ref Mus musculus pseudouridylyl synthase 7 homolog (S. cerevisiae) (Pus7), mRNA [NM_178403]	0.16	0.031	0.998
Srf	NM_020493	ref Mus musculus serum response factor (Srf), mRNA [NM_020493]	0.16	0.046	1.000
Aen	NM_026531	ref Mus musculus apoptosis enhancing nuclease (Aen), transcript variant 1, mRNA [NM_026531]	0.16	0.030	0.998
Pigx	NM_024464	ref Mus musculus phosphatidylinositol glycan anchor biosynthesis, class X (Pigx), transcript variant 1, mRNA [NM_024464]	0.16	0.041	1.000
Plxna2	NM_008882	ref Mus musculus plexin A2 (Plxna2), mRNA [NM_008882]	0.16	0.046	1.000
Zfp706	NM_026521	ref Mus musculus zinc finger protein 706 (Zfp706), mRNA [NM_026521]	0.16	0.039	1.000
chr6:86776350-86799379_R	chr6:86776350-86799379_R	lincRNA:chr6:86776350-86799379 reverse strand	0.16	0.021	0.904
Pcgf5	NM_029508	ref Mus musculus polycomb group ring finger 5 (Pcgf5), mRNA [NM_029508]	0.16	0.035	1.000
Tmem185b	NM_146103	ref Mus musculus transmembrane protein 185B (Tmem185b), mRNA [NM_146103]	0.15	0.043	1.000
Fam53b	NM_212473	ref Mus musculus family with sequence similarity 53, member B (Fam53b), mRNA [NM_212473]	0.15	0.034	1.000
Twsg1	NM_023053	ref Mus musculus twisted gastrulation homolog 1 (Drosophila) (Twsg1), mRNA [NM_023053]	0.15	0.043	1.000
Atxn2	NM_009125	ref Mus musculus ataxin 2 (Atxn2), mRNA [NM_009125]	0.15	0.038	1.000
chr3:100363012-100369971_R	chr3:100363012-100369971_R	lincRNA:chr3:100363012-100369971 reverse strand	0.15	0.043	1.000
Gm5523	NR_004447	ref Mus musculus predicted pseudogene 5523 (Gm5523), non-coding RNA [NR_004447]	0.15	0.039	1.000
Mdm2	NM_010786	ref Mus musculus transformed mouse 3T3 cell double minute 2 (Mdm2), mRNA [NM_010786]	0.15	0.048	1.000
Gm7428	XR_001700	ref PREDICTED: Mus musculus predicted gene, EG664965 (EG664965), misc RNA [XR_001700]	0.15	0.049	1.000
ENSMUST00000136319	ENSMUST00000136319	ens ubiquitin specific peptidase 50 Gene [Source:MGI (curated);Acc:MGI:1922333] [ENSMUST00000136319]	0.15	0.033	1.000
Mtf1	NM_008636	ref Mus musculus metal response element binding transcription factor 1 (Mtf1), mRNA [NM_008636]	0.15	0.049	1.000
Myl6	NM_010860	ref Mus musculus myosin, light polypeptide 6, alkali, smooth muscle and non-muscle (Myl6), mRNA [NM_010860]	0.14	0.048	1.000
Fam160a1	NM_172682	ref Mus musculus family with sequence similarity 160, member A1 (Fam160a1), mRNA [NM_172682]	0.14	0.050	1.000
Slc39a7	NM_008202	ref Mus musculus solute carrier family 39 (zinc transporter), member 7 (Slc39a7), transcript variant 1, mRNA [NM_008202]	-0.14	0.046	1.000
Ccdc12	NM_028312	ref Mus musculus coiled-coil domain containing 12 (Ccdc12), mRNA [NM_028312]	-0.14	0.045	1.000
Rpl10	NM_052835	ref Mus musculus ribosomal protein 10 (Rpl10), mRNA [NM_052835]	-0.14	0.050	1.000
Prpf8	NM_138659	ref Mus musculus pre-mRNA processing factor 8 (Prpf8), mRNA [NM_138659]	-0.14	0.049	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Txndc16	NM_172597	ref Mus musculus thioredoxin domain containing 16 (Txndc16), mRNA [NM_172597]	-0.14	0.050	1.000
Gm10713	XM_001474680	ref PREDICTED: Mus musculus similar to isolog of yeast sui1 and rice gos2; putative (LOC100040439), mRNA [XM_001474680]	-0.15	0.049	1.000
Cog7	NM_001033318	ref Mus musculus component of oligomeric golgi complex 7 (Cog7), mRNA [NM_001033318]	-0.15	0.024	0.957
Nudc	NM_010948	ref Mus musculus nuclear distribution gene C homolog (Aspergillus) (Nudc), mRNA [NM_010948]	-0.15	0.046	1.000
Xrcc5	NM_009533	ref Mus musculus X-ray repair complementing defective repair in Chinese hamster cells 5 (Xrcc5), mRNA [NM_009533]	-0.15	0.043	1.000
Ganc	NM_172672	ref Mus musculus glucosidase, alpha; neutral C (Ganc), mRNA [NM_172672]	-0.15	0.030	0.995
Gtf2b	NM_145546	ref Mus musculus general transcription factor IIB (Gtf2b), mRNA [NM_145546]	-0.15	0.036	1.000
Dscr3	NM_007834	ref Mus musculus Down syndrome critical region gene 3 (Dscr3), mRNA [NM_007834]	-0.16	0.049	1.000
Clu	NM_013492	ref Mus musculus clusterin (Clu), mRNA [NM_013492]	-0.16	0.044	1.000
Amdhd2	NM_172935	ref Mus musculus amidohydrolase domain containing 2 (Amdhd2), mRNA [NM_172935]	-0.16	0.047	1.000
Ushbp1	NM_181418	ref Mus musculus Usher syndrome 1C binding protein 1 (Ushbp1), mRNA [NM_181418]	-0.16	0.050	1.000
Fastkd3	NM_027123	ref Mus musculus FAST kinase domains 3 (Fastkd3), mRNA [NM_027123]	-0.16	0.046	1.000
Got1	NM_010324	ref Mus musculus glutamate oxaloacetate transaminase 1, soluble (Got1), mRNA [NM_010324]	-0.16	0.030	0.994
Mcph1	NM_173189	ref Mus musculus microcephaly, primary autosomal recessive 1 (Mcph1), mRNA [NM_173189]	-0.16	0.050	1.000
Dpm1	NM_010072	ref Mus musculus dolichol-phosphate (beta-D) mannosyltransferase 1 (Dpm1), mRNA [NM_010072]	-0.16	0.037	1.000
Sp100	NM_013673	ref Mus musculus nuclear antigen Sp100 (Sp100), mRNA [NM_013673]	-0.16	0.046	1.000
Rnd2	NM_009708	ref Mus musculus Rho family GTPase 2 (Rnd2), mRNA [NM_009708]	-0.16	0.034	1.000
Efnb2	NM_010111	ref Mus musculus ephrin B2 (Efnb2), mRNA [NM_010111]	-0.16	0.042	1.000
Faf1	NM_007983	ref Mus musculus Fas-associated factor 1 (Faf1), mRNA [NM_007983]	-0.16	0.024	0.957
Btbd9	NM_027060	ref Mus musculus BTB (POZ) domain containing 9 (Btbd9), transcript variant 1, mRNA [NM_027060]	-0.16	0.048	1.000
Tmem192	NM_028427	ref Mus musculus transmembrane protein 192 (Tmem192), transcript variant 1, mRNA [NM_028427]	-0.16	0.035	1.000
Cryab	NM_009964	ref Mus musculus crystallin, alpha B (Cryab), mRNA [NM_009964]	-0.16	0.043	1.000
Vps25	NM_026776	ref Mus musculus vacuolar protein sorting 25 (yeast) (Vps25), mRNA [NM_026776]	-0.16	0.045	1.000
LOC547349	NM_001025208	ref Mus musculus similar to MHC class I antigen precursor (LOC547349), mRNA [NM_001025208]	-0.16	0.026	0.973
Iqcc	NM_198026	ref Mus musculus IQ motif containing C (Iqcc), mRNA [NM_198026]	-0.17	0.048	1.000
Cd1d2	NM_007640	ref Mus musculus CD1d2 antigen (Cd1d2), mRNA [NM_007640]	-0.17	0.049	1.000
Scfd2	NM_001114660	ref Mus musculus Sec1 family domain containing 2 (Scfd2), transcript variant a, mRNA [NM_001114660]	-0.17	0.035	1.000
Ptov1	NM_133949	ref Mus musculus prostate tumor over expressed gene 1 (Ptov1), mRNA [NM_133949]	-0.17	0.014	0.813
Obfc1	NM_175360	ref Mus musculus oligonucleotide/oligosaccharide-binding fold containing 1 (Obfc1), mRNA [NM_175360]	-0.17	0.046	1.000
Cyb561d2	NM_019720	ref Mus musculus cytochrome b-561 domain containing 2 (Cyb561d2), mRNA [NM_019720]	-0.17	0.048	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Klhl34	NM_001081667	ref Mus musculus kelch-like 34 (Drosophila) (Klhl34), mRNA [NM_001081667]	-0.17	0.039	1.000
Asb14	NM_001170748	ref Mus musculus ankyrin repeat and SOCS box-containing 14 (Asb14), transcript variant 1, mRNA [NM_001170748]	-0.17	0.043	1.000
Mknk2	NM_021462	ref Mus musculus MAP kinase-interacting serine/threonine kinase 2 (Mknk2), mRNA [NM_021462]	-0.17	0.024	0.957
Igsf9	NM_033608	ref Mus musculus immunoglobulin superfamily, member 9 (Igsf9), transcript variant 1, mRNA [NM_033608]	-0.17	0.032	1.000
Gm6837	XM_900336	ref PREDICTED: Mus musculus predicted gene, EG628080 (EG628080), mRNA [XM_900336]	-0.17	0.046	1.000
Ath11	NM_145387	ref Mus musculus ATH1, acid trehalase-like 1 (yeast) (Ath11), mRNA [NM_145387]	-0.17	0.042	1.000
9130401M01Rik	NM_029418	ref Mus musculus RIKEN cDNA 9130401M01 gene (9130401M01Rik), mRNA [NM_029418]	-0.18	0.044	1.000
Polr3gl	NM_027241	ref Mus musculus polymerase (RNA) III (DNA directed) polypeptide G like (Polr3gl), mRNA [NM_027241]	-0.18	0.035	1.000
Lmcd1	NM_144799	ref Mus musculus LIM and cysteine-rich domains 1 (Lmcd1), mRNA [NM_144799]	-0.18	0.037	1.000
Med25	NM_029365	ref Mus musculus mediator of RNA polymerase II transcription, subunit 25 homolog (yeast) (Med25), mRNA [NM_029365]	-0.18	0.029	0.986
Ramp2	NM_019444	ref Mus musculus receptor (calcitonin) activity modifying protein 2 (Ramp2), mRNA [NM_019444]	-0.18	0.024	0.957
Prnp	NM_011170	ref Mus musculus prion protein (Prnp), mRNA [NM_011170]	-0.18	0.024	0.957
Hmgn5	NM_016710	ref Mus musculus high-mobility group nucleosome binding domain 5 (Hmgn5), mRNA [NM_016710]	-0.18	0.027	0.983
Ddx28	NM_028038	ref Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 28 (Ddx28), nuclear gene encoding mitochondrial protein, mRNA [NM_028038]	-0.18	0.019	0.881
Rasl12	NM_001033158	ref Mus musculus RAS-like, family 12 (Rasl12), transcript variant 1, mRNA [NM_001033158]	-0.18	0.020	0.889
Zfp106	NM_011743	ref Mus musculus zinc finger protein 106 (Zfp106), mRNA [NM_011743]	-0.18	0.035	1.000
Ddx1	NM_134040	ref Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 1 (Ddx1), mRNA [NM_134040]	-0.18	0.033	1.000
chr7:119809687-119811410_R	chr7:119809687-119811410_R	lincRNA:chr7:119809687-119811410 reverse strand	-0.18	0.046	1.000
2900010J23Rik	NM_175190	ref Mus musculus RIKEN cDNA 2900010J23 gene (2900010J23Rik), mRNA [NM_175190]	-0.18	0.045	1.000
Acr	NM_013455	ref Mus musculus acrosin prepropeptide (Acr), mRNA [NM_013455]	-0.18	0.043	1.000
Cenpp	NM_025495	ref Mus musculus centromere protein P (Cenpp), mRNA [NM_025495]	-0.19	0.026	0.971
Cabc1	NM_023341	ref Mus musculus chaperone, ABC1 activity of bc1 complex like (S. pombe) (Cabc1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_023341]	-0.19	0.049	1.000
Vps11	NM_027889	ref Mus musculus vacuolar protein sorting 11 (yeast) (Vps11), mRNA [NM_027889]	-0.19	0.047	1.000
Serpini1	NM_009250	ref Mus musculus serine (or cysteine) peptidase inhibitor, clade I, member 1 (Serpini1), mRNA [NM_009250]	-0.19	0.020	0.890
Il3ra	NM_008369	ref Mus musculus interleukin 3 receptor, alpha chain (Il3ra), mRNA [NM_008369]	-0.19	0.020	0.895
Nyx	NM_173415	ref Mus musculus nyctalopin (Nyx), mRNA [NM_173415]	-0.19	0.044	1.000
Tars2	NM_001163619	ref Mus musculus threonyl-tRNA synthetase 2, mitochondrial (putative) (Tars2), nuclear gene encoding mitochondrial protein, transcript variant 4, mRNA [NM_001163619]	-0.19	0.040	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
BC024814	NM_146247	ref Mus musculus cDNA sequence BC024814 (BC024814), mRNA [NM_146247]	-0.19	0.027	0.983
Fam20c	NM_030565	ref Mus musculus family with sequence similarity 20, member C (Fam20c), mRNA [NM_030565]	-0.19	0.045	1.000
Map4k2	NM_009006	ref Mus musculus mitogen-activated protein kinase kinase kinase kinase 2 (Map4k2), mRNA [NM_009006]	-0.19	0.033	1.000
Psip1	NM_133948	ref Mus musculus PC4 and SFRS1 interacting protein 1 (Psip1), mRNA [NM_133948]	-0.19	0.043	1.000
2410002F23Rik	NM_025880	ref Mus musculus RIKEN cDNA 2410002F23 gene (2410002F23Rik), mRNA [NM_025880]	-0.19	0.037	1.000
Snx8	NM_172277	ref Mus musculus sorting nexin 8 (Snx8), mRNA [NM_172277]	-0.19	0.023	0.941
Frat2	NM_177603	ref Mus musculus frequently rearranged in advanced T-cell lymphomas 2 (Frat2), mRNA [NM_177603]	-0.20	0.046	1.000
B2m	NM_009735	ref Mus musculus beta-2 microglobulin (B2m), mRNA [NM_009735]	-0.20	0.014	0.825
Kank3	NM_030697	ref Mus musculus KN motif and ankyrin repeat domains 3 (Kank3), mRNA [NM_030697]	-0.20	0.020	0.889
Wwp2	NM_025830	ref Mus musculus WW domain containing E3 ubiquitin protein ligase 2 (Wwp2), mRNA [NM_025830]	-0.20	0.034	1.000
Mlx	NM_011550	ref Mus musculus MAX-like protein X (Mlx), transcript variant 3, mRNA [NM_011550]	-0.20	0.017	0.858
Lmcd1	NM_144799	ref Mus musculus LIM and cysteine-rich domains 1 (Lmcd1), mRNA [NM_144799]	-0.20	0.041	1.000
Mfap1b	NM_001081975	ref Mus musculus microfibrillar-associated protein 1B (Mfap1b), mRNA [NM_001081975]	-0.20	0.019	0.881
Dapk1	NM_029653	ref Mus musculus death associated protein kinase 1 (Dapk1), transcript variant 1, mRNA [NM_029653]	-0.20	0.023	0.944
1300018J18Rik	NM_027905	ref Mus musculus RIKEN cDNA 1300018J18 gene (1300018J18Rik), mRNA [NM_027905]	-0.20	0.018	0.864
2410066E13Rik	NM_026629	ref Mus musculus RIKEN cDNA 2410066E13 gene (2410066E13Rik), mRNA [NM_026629]	-0.20	0.009	0.731
ORF19	NM_026833	ref Mus musculus open reading frame 19 (ORF19), transcript variant 1, mRNA [NM_026833]	-0.20	0.026	0.973
ENSMUST00000094465	ENSMUST00000094465	ens predicted gene 572 (Gm572), mRNA [Source:RefSeq DNA;Acc:NM_001085505] [ENSMUST00000094465]	-0.20	0.032	1.000
Rpl26	NM_009080	ref Mus musculus ribosomal protein L26 (Rpl26), mRNA [NM_009080]	-0.20	0.047	1.000
Hip1r	NM_145070	ref Mus musculus huntingtin interacting protein 1 related (Hip1r), mRNA [NM_145070]	-0.20	0.049	1.000
2010107H07Rik	NR_024069	ref Mus musculus RIKEN cDNA 2010107H07 gene (2010107H07Rik), non-coding RNA [NR_024069]	-0.20	0.013	0.799
2310010J17Rik	XM_896611	ref PREDICTED: Mus musculus RIKEN cDNA 2310010J17 gene (2310010J17Rik), mRNA [XM_896611]	-0.20	0.034	1.000
H13	NM_010376	ref Mus musculus histocompatibility 13 (H13), transcript variant 2, mRNA [NM_010376]	-0.20	0.013	0.794
Odc1	NM_013614	ref Mus musculus ornithine decarboxylase, structural 1 (Odc1), mRNA [NM_013614]	-0.20	0.022	0.933
Ppfbp2	NM_008905	ref Mus musculus PTPRF interacting protein, binding protein 2 (liprin beta 2) (Ppfbp2), transcript variant 1, mRNA [NM_008905]	-0.20	0.027	0.983
chr2:155269145-155303251_F	chr2:155269145-155303251_F	lincRNA:chr2:155269145-155303251 forward strand	-0.20	0.018	0.877
chr7:128341797-128414692_R	chr7:128341797-128414692_R	lincRNA:chr7:128341797-128414692 reverse strand	-0.21	0.016	0.846
Dock11	NM_001009947	ref Mus musculus dedicator of cytokinesis 11 (Dock11), mRNA [NM_001009947]	-0.21	0.037	1.000
chr7:128341797-128414692_R	chr7:128341797-128414692_R	lincRNA:chr7:128341797-128414692 reverse strand	-0.21	0.023	0.937

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
AW549542	AK035112	gb Mus musculus 12 days embryo embryonic body between diaphragm region and neck cDNA, RIKEN full-length enriched library, clone:9430089J01 product:unclassifiable, full insert sequence. [AK035112]	-0.21	0.019	0.881
B230334C09Rik	AK081211	gb Mus musculus adult male corpus striatum cDNA, RIKEN full-length enriched library, clone:C030005117 product:unclassifiable, full insert sequence. [AK081211]	-0.21	0.047	1.000
Vps25	NM_026776	ref Mus musculus vacuolar protein sorting 25 (yeast) (Vps25), mRNA [NM_026776]	-0.21	0.018	0.869
Gm7483	XR_032712	ref PREDICTED: Mus musculus similar to cyclin B (LOC665085), misc RNA [XR_032712]	-0.21	0.037	1.000
Scara5	NM_028903	ref Mus musculus scavenger receptor class A, member 5 (putative) (Scara5), transcript variant 1, mRNA [NM_028903]	-0.21	0.018	0.864
L2hgdh	NM_145443	ref Mus musculus L-2-hydroxyglutarate dehydrogenase (L2hgdh), nuclear gene encoding mitochondrial protein, mRNA [NM_145443]	-0.21	0.031	0.998
Hspb7	NM_013868	ref Mus musculus heat shock protein family, member 7 (cardiovascular) (Hspb7), mRNA [NM_013868]	-0.21	0.031	0.998
Gm5869	XR_031253	ref PREDICTED: Mus musculus similar to elongation factor 1 alpha (LOC545767), misc RNA [XR_031253]	-0.21	0.033	1.000
Mocs1	NM_020042	ref Mus musculus molybdenum cofactor synthesis 1 (Mocs1), transcript variant 1, mRNA [NM_020042]	-0.21	0.019	0.883
Gm13308	NM_001177580	ref Mus musculus predicted gene 13308 (Gm13308), mRNA [NM_001177580]	-0.21	0.025	0.965
Spcs3	NM_029701	ref Mus musculus signal peptidase complex subunit 3 homolog (S. cerevisiae) (Spcs3), mRNA [NM_029701]	-0.21	0.009	0.720
9030425E11Rik	NM_133733	ref Mus musculus RIKEN cDNA 9030425E11 gene (9030425E11Rik), mRNA [NM_133733]	-0.21	0.020	0.891
Otud3	NM_028453	ref Mus musculus OTU domain containing 3 (Otud3), mRNA [NM_028453]	-0.21	0.025	0.957
Gprc5c	NM_001110337	ref Mus musculus G protein-coupled receptor, family C, group 5, member C (Gprc5c), transcript variant 1, mRNA [NM_001110337]	-0.21	0.013	0.793
Tmbim4	NM_026617	ref Mus musculus transmembrane BAX inhibitor motif containing 4 (Tmbim4), mRNA [NM_026617]	-0.21	0.037	1.000
Ebf2	NM_010095	ref Mus musculus early B-cell factor 2 (Ebf2), mRNA [NM_010095]	-0.21	0.015	0.831
Rnf34	NM_030564	ref Mus musculus ring finger protein 34 (Rnf34), mRNA [NM_030564]	-0.21	0.012	0.793
Dgke	NM_019505	ref Mus musculus diacylglycerol kinase, epsilon (Dgke), mRNA [NM_019505]	-0.22	0.036	1.000
Siglech	NM_178706	ref Mus musculus sialic acid binding Ig-like lectin H (Siglech), mRNA [NM_178706]	-0.22	0.031	0.998
Gm8874	XR_035677	ref PREDICTED: Mus musculus predicted gene, EG667907 (EG667907), misc RNA [XR_035677]	-0.22	0.043	1.000
chr12:74135916-74142780_F	chr12:74135916-74142780_F	lincRNA:chr12:74135916-74142780 forward strand	-0.22	0.036	1.000
chr11:33414450-33450750_R	chr11:33414450-33450750_R	lincRNA:chr11:33414450-33450750 reverse strand	-0.22	0.041	1.000
H2-Q10	NM_010391	ref Mus musculus histocompatibility 2, Q region locus 10 (H2-Q10), mRNA [NM_010391]	-0.22	0.011	0.774
ORF19	NM_026833	ref Mus musculus open reading frame 19 (ORF19), transcript variant 1, mRNA [NM_026833]	-0.22	0.027	0.983
Gm9521	XR_034015	ref PREDICTED: Mus musculus similar to eukaryotic translation elongation factor 1 alpha 1 (LOC671190), misc RNA [XR_034015]	-0.22	0.035	1.000
chr2:155269145-155303251_F	chr2:155269145-155303251_F	lincRNA:chr2:155269145-155303251 forward strand	-0.22	0.023	0.940

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
2310002L09Rik	NM_027981	ref Mus musculus RIKEN cDNA 2310002L09 gene (2310002L09Rik), transcript variant 1, mRNA [NM_027981]	-0.22	0.037	1.000
Aamp	NM_146110	ref Mus musculus angio-associated migratory protein (Aamp), transcript variant 2, mRNA [NM_146110]	-0.22	0.004	0.538
1700029G01Rik	NM_001162533	ref Mus musculus RIKEN cDNA 1700029G01 gene (1700029G01Rik), transcript variant 1, mRNA [NM_001162533]	-0.22	0.033	1.000
Txlnb	NM_138628	ref Mus musculus taxilin beta (Txlnb), mRNA [NM_138628]	-0.22	0.012	0.792
1700066M21Rik	NM_028546	ref Mus musculus RIKEN cDNA 1700066M21 gene (1700066M21Rik), mRNA [NM_028546]	-0.22	0.044	1.000
E130215H24Rik	AK160355	gb Mus musculus 0 day neonate eyeball cDNA, RIKEN full-length enriched library, clone:E130215H24 product:unclassifiable, full insert sequence. [AK160355]	-0.22	0.045	1.000
Kcnp3	NM_001111331	ref Mus musculus Kv channel interacting protein 3, calsenilin (Kcnp3), transcript variant 2, mRNA [NM_001111331]	-0.22	0.046	1.000
Snrnp200	NM_177214	ref Mus musculus small nuclear ribonucleoprotein 200 (U5) (Snrnp200), mRNA [NM_177214]	-0.23	0.012	0.786
chr17:26911032-26912366_F	chr17:26911032-26912366_F	lincRNA:chr17:26911032-26912366 forward strand	-0.23	0.032	1.000
H2-K1	NM_001001892	ref Mus musculus histocompatibility 2, K1, K region (H2-K1), transcript variant 1, mRNA [NM_001001892]	-0.23	0.031	0.998
Atg2a	NM_194348	ref Mus musculus ATG2 autophagy related 2 homolog A (S. cerevisiae) (Atg2a), mRNA [NM_194348]	-0.23	0.015	0.831
Etl4	NM_001081006	ref Mus musculus enhancer trap locus 4 (Etl4), transcript variant c, mRNA [NM_001081006]	-0.23	0.025	0.958
Etl4	NM_001081006	ref Mus musculus enhancer trap locus 4 (Etl4), transcript variant c, mRNA [NM_001081006]	-0.23	0.011	0.770
Trim25	NM_009546	ref Mus musculus tripartite motif-containing 25 (Trim25), mRNA [NM_009546]	-0.23	0.026	0.973
ENSMUST00000110031	ENSMUST00000110031	ens AU RNA binding protein/enoyl-coenzyme A hydratase Gene [Source:MGI (curated);Acc:MGI:1338011] [ENSMUST00000110031]	-0.23	0.023	0.936
Snrk	NM_133741	ref Mus musculus SNF related kinase (Snrk), transcript variant 1, mRNA [NM_133741]	-0.23	0.022	0.934
Cdv3	NM_001134426	ref Mus musculus carnitine deficiency-associated gene expressed in ventricle 3 (Cdv3), transcript variant 3, mRNA [NM_001134426]	-0.23	0.006	0.632
Hsd11b1	NM_008288	ref Mus musculus hydroxysteroid 11-beta dehydrogenase 1 (Hsd11b1), transcript variant 1, mRNA [NM_008288]	-0.23	0.031	1.000
Pet112l	NM_144896	ref Mus musculus PET112-like (yeast) (Pet112l), nuclear gene encoding mitochondrial protein, mRNA [NM_144896]	-0.23	0.008	0.694
Aspscr1	NM_026877	ref Mus musculus alveolar soft part sarcoma chromosome region, candidate 1 (human) (Aspscr1), transcript variant 1, mRNA [NM_026877]	-0.23	0.008	0.700
Mbnl2	NM_175341	ref Mus musculus muscleblind-like 2 (Mbnl2), transcript variant 1, mRNA [NM_175341]	-0.23	0.036	1.000
Il11ra1	NM_001172054	ref Mus musculus interleukin 11 receptor, alpha chain 1 (Il11ra1), transcript variant 3, mRNA [NM_001172054]	-0.23	0.003	0.485
LOC676755	XM_992608	ref PREDICTED: Mus musculus similar to U2-associated SR140 protein (LOC676755), mRNA [XM_992608]	-0.23	0.034	1.000
Spcs3	NM_029701	ref Mus musculus signal peptidase complex subunit 3 homolog (S. cerevisiae) (Spcs3), mRNA [NM_029701]	-0.23	0.004	0.516
Ehhadh	NM_023737	ref Mus musculus enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehydrogenase (Ehhadh), mRNA [NM_023737]	-0.23	0.013	0.796

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Tm2d2	NM_027194	ref Mus musculus TM2 domain containing 2 (Tm2d2), mRNA [NM_027194]	-0.23	0.007	0.679
Surf1	NM_013677	ref Mus musculus surfet gene 1 (Surf1), mRNA [NM_013677]	-0.23	0.015	0.826
Csrp3	NM_013808	ref Mus musculus cysteine and glycine-rich protein 3 (Csrp3), mRNA [NM_013808]	-0.23	0.007	0.674
Cd82	NM_001136055	ref Mus musculus CD82 antigen (Cd82), transcript variant 2, mRNA [NM_001136055]	-0.23	0.035	1.000
Notch1	NM_008714	ref Mus musculus Notch gene homolog 1 (Drosophila) (Notch1), mRNA [NM_008714]	-0.23	0.050	1.000
Tubgcp2	NM_133755	ref Mus musculus tubulin, gamma complex associated protein 2 (Tubgcp2), mRNA [NM_133755]	-0.24	0.013	0.793
Tmem191c	NM_177473	ref Mus musculus transmembrane protein 191C (Tmem191c), mRNA [NM_177473]	-0.24	0.019	0.881
Alox5	NM_009662	ref Mus musculus arachidonate 5-lipoxygenase (Alox5), mRNA [NM_009662]	-0.24	0.017	0.854
LOC675328	XR_033777	ref PREDICTED: Mus musculus similar to MHC H2-TL-T10-b (LOC675328), misc RNA [XR_033777]	-0.24	0.008	0.705
Trp53inp1	NM_021897	ref Mus musculus transformation related protein 53 inducible nuclear protein 1 (Trp53inp1), mRNA [NM_021897]	-0.24	0.030	0.998
Sp4	NM_009239	ref Mus musculus trans-acting transcription factor 4 (Sp4), transcript variant 1, mRNA [NM_009239]	-0.24	0.028	0.983
Cdv3	NM_175833	ref Mus musculus carnitine deficiency-associated gene expressed in ventricle 3 (Cdv3), transcript variant 2, mRNA [NM_175833]	-0.24	0.006	0.646
Cpne1	NM_170588	ref Mus musculus copine I (Cpne1), transcript variant 1, mRNA [NM_170588]	-0.24	0.049	1.000
Mttr14	NM_026849	ref Mus musculus myotubularin related protein 14 (Mttr14), mRNA [NM_026849]	-0.24	0.020	0.885
Esrb	NM_001159500	ref Mus musculus estrogen related receptor, beta (Esrb), transcript variant 2, mRNA [NM_001159500]	-0.24	0.007	0.686
Dgat1	NM_010046	ref Mus musculus diacylglycerol O-acyltransferase 1 (Dgat1), mRNA [NM_010046]	-0.24	0.012	0.786
4930552P12Rik	AK019762	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930552P12 product:unclassifiable, full insert sequence. [AK019762]	-0.24	0.010	0.744
Optn	NM_181848	ref Mus musculus optineurin (Optn), mRNA [NM_181848]	-0.24	0.022	0.926
Dctn2	NM_027151	ref Mus musculus dynactin 2 (Dctn2), transcript variant 3, mRNA [NM_027151]	-0.24	0.005	0.584
ENSMUST00000100735	ENSMUST00000100735	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UY91] [ENSMUST00000100735]	-0.24	0.024	0.957
chr15:102100397-102105872_F	chr15:102100397-102105872_F	lincRNA:chr15:102100397-102105872 forward strand	-0.24	0.046	1.000
Pbxip1	NM_146131	ref Mus musculus pre-B-cell leukemia transcription factor interacting protein 1 (Pbxip1), mRNA [NM_146131]	-0.24	0.001	0.311
Dnase1l1	NM_027109	ref Mus musculus deoxyribonuclease 1-like 1 (Dnase1l1), transcript variant 1, mRNA [NM_027109]	-0.24	0.017	0.858
Impact	NM_008378	ref Mus musculus imprinted and ancient (Impact), mRNA [NM_008378]	-0.24	0.013	0.805
Myh1	NM_030679	ref Mus musculus myosin, heavy polypeptide 1, skeletal muscle, adult (Myh1), mRNA [NM_030679]	-0.25	0.032	1.000
chr1:39739048-39740125_F	chr1:39739048-39740125_F	lincRNA:chr1:39739048-39740125 forward strand	-0.25	0.041	1.000
Fbxw10	NM_001033669	ref Mus musculus F-box and WD-40 domain protein 10 (Fbxw10), mRNA [NM_001033669]	-0.25	0.031	0.998
Galk2	NM_175154	ref Mus musculus galactokinase 2 (Galk2), mRNA [NM_175154]	-0.25	0.030	0.998

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Tbc1d2	NM_198664	ref Mus musculus TBC1 domain family, member 2 (Tbc1d2), mRNA [NM_198664]	-0.25	0.031	0.998
LOC100044874	XM_001473540	ref PREDICTED: Mus musculus similar to MHC H2-K 24 polypeptide, transcript variant 1 (LOC100044874), mRNA [XM_001473540]	-0.25	0.033	1.000
Kcna5	NM_145983	ref Mus musculus potassium voltage-gated channel, shaker-related subfamily, member 5 (Kcna5), mRNA [NM_145983]	-0.25	0.024	0.957
Olfir250	NM_207552	ref Mus musculus olfactory receptor 250 (Olfir250), mRNA [NM_207552]	-0.25	0.018	0.864
Cdv3	NM_001134426	ref Mus musculus carnitine deficiency-associated gene expressed in ventricle 3 (Cdv3), transcript variant 3, mRNA [NM_001134426]	-0.25	0.021	0.914
chrX:146827709-146913398_R	chrX:146827709-146913398_R	lincRNA:chrX:146827709-146913398 reverse strand	-0.25	0.033	1.000
Polg	NM_017462	ref Mus musculus polymerase (DNA directed), gamma (Polg), mRNA [NM_017462]	-0.25	0.006	0.661
chr5:139230332-139230823_R	chr5:139230332-139230823_R	lincRNA:chr5:139230332-139230823 reverse strand	-0.25	0.019	0.883
Dapp1	NM_011932	ref Mus musculus dual adaptor for phosphotyrosine and 3-phosphoinositides 1 (Dapp1), mRNA [NM_011932]	-0.25	0.014	0.820
chr2:155269145-155303251_F	chr2:155269145-155303251_F	lincRNA:chr2:155269145-155303251 forward strand	-0.25	0.006	0.626
H2-Q2	NM_010392	ref Mus musculus histocompatibility 2, Q region locus 2 (H2-Q2), mRNA [NM_010392]	-0.25	0.008	0.694
chr4:155585650-155608700_R	chr4:155585650-155608700_R	lincRNA:chr4:155585650-155608700 reverse strand	-0.25	0.023	0.941
LOC677149	XM_001000983	ref PREDICTED: Mus musculus similar to H2-BI protein (LOC677149), mRNA [XM_001000983]	-0.25	0.007	0.679
Uaca	NM_028283	ref Mus musculus uveal autoantigen with coiled-coil domains and ankyrin repeats (Uaca), mRNA [NM_028283]	-0.25	0.008	0.705
Gm7084	XR_033982	ref PREDICTED: Mus musculus similar to pleckstrin homology domain containing, family F (with FYVE domain) member 1 (LOC632287), misc RNA [XR_033982]	-0.25	0.043	1.000
chr17:26911397-26917047_F	chr17:26911397-26917047_F	lincRNA:chr17:26911397-26917047 forward strand	-0.25	0.023	0.941
chr3:41327493-41328368_F	chr3:41327493-41328368_F	lincRNA:chr3:41327493-41328368 forward strand	-0.25	0.044	1.000
Gm13308	NM_001177580	ref Mus musculus predicted gene 13308 (Gm13308), mRNA [NM_001177580]	-0.25	0.032	1.000
chr13:53097579-53113554_F	chr13:53097579-53113554_F	lincRNA:chr13:53097579-53113554 forward strand	-0.25	0.020	0.897
Gm14446	NM_001110517	ref Mus musculus predicted gene 14446 (Gm14446), transcript variant 1, mRNA [NM_001110517]	-0.25	0.010	0.743
chr4:155560050-155570900_R	chr4:155560050-155570900_R	lincRNA:chr4:155560050-155570900 reverse strand	-0.26	0.036	1.000
Gdpd3	NM_024228	ref Mus musculus glycerophosphodiester phosphodiesterase domain containing 3 (Gdpd3), mRNA [NM_024228]	-0.26	0.013	0.808
Pbxip1	NM_146131	ref Mus musculus pre-B-cell leukemia transcription factor interacting protein 1 (Pbxip1), mRNA [NM_146131]	-0.26	0.002	0.392
chr16:44717531-44724206_R	chr16:44717531-44724206_R	lincRNA:chr16:44717531-44724206 reverse strand	-0.26	0.016	0.848
Prom1	NM_001163577	ref Mus musculus prominin 1 (Prom1), transcript variant 2, mRNA [NM_001163577]	-0.26	0.019	0.881
chr11:53592946-53637922_F	chr11:53592946-53637922_F	lincRNA:chr11:53592946-53637922 forward strand	-0.26	0.033	1.000
Cd82	NM_007656	ref Mus musculus CD82 antigen (Cd82), transcript variant 1, mRNA [NM_007656]	-0.26	0.014	0.826

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Nfkbib	NM_010908	ref Mus musculus nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta (Nfkbib), mRNA [NM_010908]	-0.26	0.007	0.685
Ccdc89	NM_027298	ref Mus musculus coiled-coil domain containing 89 (Ccdc89), mRNA [NM_027298]	-0.26	0.047	1.000
Zdhhc12	NM_025428	ref Mus musculus zinc finger, DHHC domain containing 12 (Zdhhc12), transcript variant 1, mRNA [NM_025428]	-0.26	0.012	0.786
Crebl2	NM_177687	ref Mus musculus cAMP responsive element binding protein-like 2 (Crebl2), mRNA [NM_177687]	-0.26	0.016	0.848
Atp2a1	NM_007504	ref Mus musculus ATPase, Ca++ transporting, cardiac muscle, fast twitch 1 (Atp2a1), mRNA [NM_007504]	-0.26	0.013	0.802
Mcl1	NM_008562	ref Mus musculus myeloid cell leukemia sequence 1 (Mcl1), mRNA [NM_008562]	-0.26	0.014	0.818
H2-Q2	NM_010392	ref Mus musculus histocompatibility 2, Q region locus 2 (H2-Q2), mRNA [NM_010392]	-0.26	0.012	0.786
Cd82	NM_001136055	ref Mus musculus CD82 antigen (Cd82), transcript variant 2, mRNA [NM_001136055]	-0.26	0.019	0.883
Rnf144a	NM_080563	ref Mus musculus ring finger protein 144A (Rnf144a), transcript variant 2, mRNA [NM_080563]	-0.26	0.019	0.880
chr16:91187988-91188416_R	chr16:91187988-91188416_R	lincRNA:chr16:91187988-91188416 reverse strand	-0.26	0.038	1.000
chr17:26911397-26917047_F	chr17:26911397-26917047_F	lincRNA:chr17:26911397-26917047 forward strand	-0.26	0.039	1.000
chr10:126818382-126856582_R	chr10:126818382-126856582_R	lincRNA:chr10:126818382-126856582 reverse strand	-0.26	0.028	0.983
Clcnkb	NM_019701	ref Mus musculus chloride channel Kb (Clcnkb), mRNA [NM_019701]	-0.26	0.035	1.000
chr3:146629425-146649125_R	chr3:146629425-146649125_R	lincRNA:chr3:146629425-146649125 reverse strand	-0.26	0.039	1.000
ENSMUST00000116010	ENSMUST00000116010	ens predicted gene 7030 Pseudogene [Source:MGI Symbol;Acc:MGI:3647514] [ENSMUST00000116010]	-0.26	0.011	0.770
BY201563	BY201563	gb BY201563 RIKEN full-length enriched, B6-derived CD11 +ve dendritic cells Mus musculus cDNA clone F730107H14 5', mRNA sequence [BY201563]	-0.26	0.020	0.897
H2-Q7	NM_010394	ref Mus musculus histocompatibility 2, Q region locus 7 (H2-Q7), mRNA [NM_010394]	-0.27	0.012	0.786
Aldh2	NM_009656	ref Mus musculus aldehyde dehydrogenase 2, mitochondrial (Aldh2), nuclear gene encoding mitochondrial protein, mRNA [NM_009656]	-0.27	0.007	0.664
LOC677644	XR_034968	ref PREDICTED: Mus musculus similar to HLA-G protein (LOC677644), misc RNA [XR_034968]	-0.27	0.009	0.731
App12	NM_145220	ref Mus musculus adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 2 (App12), mRNA [NM_145220]	-0.27	0.019	0.883
chr5:75389503-75396250_F	chr5:75389503-75396250_F	lincRNA:chr5:75389503-75396250 forward strand	-0.27	0.014	0.816
Colec11	NM_027866	ref Mus musculus collectin sub-family member 11 (Colec11), mRNA [NM_027866]	-0.27	0.003	0.496
chr12:52880692-52933444_F	chr12:52880692-52933444_F	lincRNA:chr12:52880692-52933444 forward strand	-0.27	0.024	0.957
chr2:158169020-158191295_R	chr2:158169020-158191295_R	lincRNA:chr2:158169020-158191295 reverse strand	-0.27	0.038	1.000
Rag1ap1	NM_009057	ref Mus musculus recombination activating gene 1 activating protein 1 (Rag1ap1), mRNA [NM_009057]	-0.27	0.015	0.832
Gm7854	NR_028417	ref Mus musculus predicted gene 7854 (Gm7854), non-coding RNA [NR_028417]	-0.27	0.044	1.000
Gramd1c	NM_153528	ref Mus musculus GRAM domain containing 1C (Gramd1c), transcript variant 1, mRNA [NM_153528]	-0.27	0.012	0.786

Online Supplemental Table IV: mG4H-Veh Only					
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Wbscr25	NR_026907	ref Mus musculus Williams Beuren syndrome chromosome region 25 (human) (Wbscr25), non-coding RNA [NR_026907]	-0.27	0.047	1.000
Nmb	NM_026523	ref Mus musculus neuromedin B (Nmb), mRNA [NM_026523]	-0.27	0.038	1.000
Skap2	NM_018773	ref Mus musculus src family associated phosphoprotein 2 (Skap2), mRNA [NM_018773]	-0.27	0.010	0.764
chr12:89479525-89503525_F	chr12:89479525-89503525_F	lincRNA:chr12:89479525-89503525 forward strand	-0.27	0.016	0.851
Azi1	NM_009734	ref Mus musculus 5-azacytidine induced gene 1 (Azi1), mRNA [NM_009734]	-0.27	0.003	0.495
Arrdc1	NM_178408	ref Mus musculus arrestin domain containing 1 (Arrdc1), transcript variant 2, mRNA [NM_178408]	-0.27	0.028	0.983
Lrrc10	NM_146242	ref Mus musculus leucine rich repeat containing 10 (Lrrc10), mRNA [NM_146242]	-0.27	0.039	1.000
Cdv3	NM_001134426	ref Mus musculus carnitine deficiency-associated gene expressed in ventricle 3 (Cdv3), transcript variant 3, mRNA [NM_001134426]	-0.27	0.021	0.912
chr15:62090565-62091770_F	chr15:62090565-62091770_F	lincRNA:chr15:62090565-62091770 forward strand	-0.27	0.045	1.000
Ankzf1	NM_026187	ref Mus musculus ankyrin repeat and zinc finger domain containing 1 (Ankzf1), mRNA [NM_026187]	-0.27	0.004	0.516
Eno4	NM_178689	ref Mus musculus enolase 4 (Eno4), mRNA [NM_178689]	-0.27	0.047	1.000
Slc25a33	NM_027460	ref Mus musculus solute carrier family 25, member 33 (Slc25a33), mRNA [NM_027460]	-0.27	0.008	0.697
chr7:137486825-137498500_F	chr7:137486825-137498500_F	lincRNA:chr7:137486825-137498500 forward strand	-0.27	0.050	1.000
S100a1	NM_011309	ref Mus musculus S100 calcium binding protein A1 (S100a1), mRNA [NM_011309]	-0.28	0.003	0.440
Snx25	NM_207213	ref Mus musculus sorting nexin 25 (Snx25), mRNA [NM_207213]	-0.28	0.039	1.000
1700111N16Rik	NR_033213	ref Mus musculus RIKEN cDNA 1700111N16 gene (1700111N16Rik), non-coding RNA [NR_033213]	-0.28	0.048	1.000
LOC100048396	XR_034680	ref PREDICTED: Mus musculus hypothetical protein LOC100048396 (LOC100048396), misc RNA [XR_034680]	-0.28	0.048	1.000
chr17:26911397-26917047_F	chr17:26911397-26917047_F	lincRNA:chr17:26911397-26917047 forward strand	-0.28	0.029	0.992
Htr7	NM_008315	ref Mus musculus 5-hydroxytryptamine (serotonin) receptor 7 (Htr7), mRNA [NM_008315]	-0.28	0.049	1.000
Eml2	NM_028153	ref Mus musculus echinoderm microtubule associated protein like 2 (Eml2), transcript variant 1, mRNA [NM_028153]	-0.28	0.001	0.263
Olfir27	NM_146829	ref Mus musculus olfactory receptor 27 (Olfir27), mRNA [NM_146829]	-0.28	0.038	1.000
Gm4062	XM_001478924	ref PREDICTED: Mus musculus hypothetical protein LOC100042845 (LOC100042845), mRNA [XM_001478924]	-0.28	0.037	1.000
H2-D1	NM_010380	ref Mus musculus histocompatibility 2, D region locus 1 (H2-D1), mRNA [NM_010380]	-0.28	0.009	0.730
chr6:90745692-90777977_F	chr6:90745692-90777977_F	lincRNA:chr6:90745692-90777977 forward strand	-0.28	0.049	1.000
Olfir521	NM_146356	ref Mus musculus olfactory receptor 521 (Olfir521), mRNA [NM_146356]	-0.28	0.048	1.000
Fmnl2	NM_172409	ref Mus musculus formin-like 2 (Fmnl2), mRNA [NM_172409]	-0.28	0.005	0.621

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Oat	NM_016978	ref Mus musculus ornithine aminotransferase (Oat), nuclear gene encoding mitochondrial protein, mRNA [NM_016978]	-0.28	0.005	0.583
Gm4603	XM_001480803	ref PREDICTED: Mus musculus similar to cyclic nucleotide gated channel beta 1 (LOC100043717), mRNA [XM_001480803]	-0.28	0.022	0.935
chr7:77481448-77495548_F	chr7:77481448-77495548_F	lincRNA:chr7:77481448-77495548 forward strand	-0.28	0.045	1.000
chr8:71526892-71527500_R	chr8:71526892-71527500_R	lincRNA:chr8:71526892-71527500 reverse strand	-0.28	0.023	0.942
Gipc2	NM_016867	ref Mus musculus GIPC PDZ domain containing family, member 2 (Gipc2), mRNA [NM_016867]	-0.29	0.016	0.848
chr17:26911397-26917047_F	chr17:26911397-26917047_F	lincRNA:chr17:26911397-26917047 forward strand	-0.29	0.032	1.000
Uap1l1	NM_001033293	ref Mus musculus UDP-N-acetylglucosamine pyrophosphorylase 1-like 1 (Uap1l1), mRNA [NM_001033293]	-0.29	0.003	0.500
Bsph1	NM_001033418	ref Mus musculus binder of sperm protein homolog 1 (Bsph1), mRNA [NM_001033418]	-0.29	0.021	0.897
Arfgap3	NM_025445	ref Mus musculus ADP-ribosylation factor GTPase activating protein 3 (Arfgap3), mRNA [NM_025445]	-0.29	0.030	0.998
Tdgf1	NM_011562	ref Mus musculus teratocarcinoma-derived growth factor 1 (Tdgf1), mRNA [NM_011562]	-0.29	0.033	1.000
LOC100047388	XM_001478042	ref PREDICTED: Mus musculus similar to H2-T18 protein (LOC100047388), mRNA [XM_001478042]	-0.29	0.002	0.377
Tnk1	NM_031880	ref Mus musculus tyrosine kinase, non-receptor, 1 (Tnk1), mRNA [NM_031880]	-0.29	0.048	1.000
Echdc2	NM_026728	ref Mus musculus enoyl Coenzyme A hydratase domain containing 2 (Echdc2), mRNA [NM_026728]	-0.29	0.002	0.413
4930579G22Rik	NM_026916	ref Mus musculus RIKEN cDNA 4930579G22 gene (4930579G22Rik), mRNA [NM_026916]	-0.29	0.006	0.655
Il1rl1	NM_001025602	ref Mus musculus interleukin 1 receptor-like 1 (Il1rl1), transcript variant 1, mRNA [NM_001025602]	-0.29	0.001	0.331
6430590A07Rik	AK048316	gb Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, clone:C130048L12 product:unclassifiable, full insert sequence. [AK048316]	-0.29	0.027	0.981
chr13:74642700-74701900_R	chr13:74642700-74701900_R	lincRNA:chr13:74642700-74701900 reverse strand	-0.29	0.015	0.832
Gpr61	NM_175470	ref Mus musculus G protein-coupled receptor 61 (Gpr61), mRNA [NM_175470]	-0.29	0.012	0.793
Gm7035	NR_004446	ref Mus musculus predicted pseudogene 7035 (Gm7035), non-coding RNA [NR_004446]	-0.29	0.009	0.715
H2afb2-ps	XM_888672	ref PREDICTED: Mus musculus predicted gene, EG624153 (EG624153), mRNA [XM_888672]	-0.30	0.039	1.000
Col23a1	NM_153393	ref Mus musculus collagen, type XXIII, alpha 1 (Col23a1), mRNA [NM_153393]	-0.30	0.019	0.881
2010107H07Rik	NR_024069	ref Mus musculus RIKEN cDNA 2010107H07 gene (2010107H07Rik), non-coding RNA [NR_024069]	-0.30	0.001	0.214
H2-K1	NM_001001892	ref Mus musculus histocompatibility 2, K1, K region (H2-K1), transcript variant 1, mRNA [NM_001001892]	-0.30	0.005	0.578
Lpl	NM_008509	ref Mus musculus lipoprotein lipase (Lpl), mRNA [NM_008509]	-0.30	0.002	0.343
Gm7035	NR_004446	ref Mus musculus predicted pseudogene 7035 (Gm7035), non-coding RNA [NR_004446]	-0.30	0.005	0.621
chr13:98221098-98480773_R	chr13:98221098-98480773_R	lincRNA:chr13:98221098-98480773 reverse strand	-0.30	0.044	1.000
chr15:97925615-97926199_F	chr15:97925615-97926199_F	lincRNA:chr15:97925615-97926199 forward strand	-0.30	0.010	0.746
ENSMUST00000098407	ENSMUST00000098407	ens junction adhesion molecule 2 Gene [Source:MGI (curated);Acc:MGI:1933820] [ENSMUST00000098407]	-0.30	0.031	1.000

Online Supplemental Table IV: mG4H-Veh Only					
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Zfp771	NM_177362	ref Mus musculus zinc finger protein 771 (Zfp771), mRNA [NM_177362]	-0.30	0.001	0.227
chr5:37051650-37110575_F	chr5:37051650-37110575_F	lincRNA:chr5:37051650-37110575 forward strand	-0.30	0.044	1.000
chr11:87872568-87880978_R	chr11:87872568-87880978_R	lincRNA:chr11:87872568-87880978 reverse strand	-0.30	0.050	1.000
chr8:125031410-125075960_F	chr8:125031410-125075960_F	lincRNA:chr8:125031410-125075960 forward strand	-0.30	0.026	0.973
Ascl3	NM_020051	ref Mus musculus achaete-scute complex homolog 3 (Drosophila) (Ascl3), mRNA [NM_020051]	-0.30	0.022	0.924
chr2:75484041-75484815_R	chr2:75484041-75484815_R	lincRNA:chr2:75484041-75484815 reverse strand	-0.30	0.029	0.991
chr8:122787689-122788088_R	chr8:122787689-122788088_R	lincRNA:chr8:122787689-122788088 reverse strand	-0.30	0.027	0.983
GaInt12	ENSMUST000000022460	ens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 2 Gene [Source:MGI Symbol;Acc:MGI:1926004] [ENSMUST000000022460]	-0.30	0.005	0.589
ENSMUST00000070378	ENSMUST00000070378	ens RIKEN cDNA 1810010K12 gene Gene [Source:MGI Symbol;Acc:MGI:1921419] [ENSMUST00000070378]	-0.30	0.036	1.000
Polg	NM_017462	ref Mus musculus polymerase (DNA directed), gamma (Polg), mRNA [NM_017462]	-0.30	0.001	0.263
Slc25a33	NM_027460	ref Mus musculus solute carrier family 25, member 33 (Slc25a33), mRNA [NM_027460]	-0.30	0.006	0.628
LOC100039088	XM_001472029	ref PREDICTED: Mus musculus hypothetical protein LOC100039088 (LOC100039088), mRNA [XM_001472029]	-0.31	0.013	0.808
H2-Q5	NM_010393	ref Mus musculus histocompatibility 2, Q region locus 5 (H2-Q5), mRNA [NM_010393]	-0.31	0.002	0.407
ENSMUST00000115614	ENSMUST00000115614	ens amadi110 repeat gene deleted in velo-cardio-facial syndrome Gene [Source:MGI (curated);Acc:MGI:109620] [ENSMUST00000115614]	-0.31	0.014	0.825
Cntn5	NM_001170787	ref Mus musculus contactin 5 (Cntn5), transcript variant 1, mRNA [NM_001170787]	-0.31	0.019	0.881
chr15:82037381-82048125_F	chr15:82037381-82048125_F	lincRNA:chr15:82037381-82048125 forward strand	-0.31	0.016	0.851
Slc47a1	NM_026183	ref Mus musculus solute carrier family 47, member 1 (Slc47a1), mRNA [NM_026183]	-0.31	0.046	1.000
LOC100047782	XM_001478860	ref PREDICTED: Mus musculus similar to crooked legs CG14938-PB (LOC100047782), mRNA [XM_001478860]	-0.31	0.021	0.904
chr12:111617728-111665403_R	chr12:111617728-111665403_R	lincRNA:chr12:111617728-111665403 reverse strand	-0.31	0.045	1.000
Cnih3	NM_028408	ref Mus musculus cornichon homolog 3 (Drosophila) (Cnih3), transcript variant 1, mRNA [NM_028408]	-0.31	0.036	1.000
chr8:129336539-129400338_R	chr8:129336539-129400338_R	lincRNA:chr8:129336539-129400338 reverse strand	-0.31	0.041	1.000
chr10:120116843-120182671_R	chr10:120116843-120182671_R	lincRNA:chr10:120116843-120182671 reverse strand	-0.31	0.043	1.000
Ppfbp2	NM_008905	ref Mus musculus PTPRF interacting protein, binding protein 2 (liprin beta 2) (Ppfbp2), transcript variant 1, mRNA [NM_008905]	-0.31	0.003	0.508
Odf2	NM_001113214	ref Mus musculus outer dense fiber of sperm tails 2 (Odf2), transcript variant 2, mRNA [NM_001113214]	-0.31	0.002	0.395
Acss1	NM_080575	ref Mus musculus acyl-CoA synthetase short-chain family member 1 (Acss1), nuclear gene encoding mitochondrial protein, mRNA [NM_080575]	-0.31	0.003	0.488
Hcrtr1	NM_198959	ref Mus musculus hypocretin (orexin) receptor 1 (Hcrtr1), transcript variant 1, mRNA [NM_198959]	-0.31	0.048	1.000
H2-Q6	NM_207648	ref Mus musculus histocompatibility 2, Q region locus 6 (H2-Q6), mRNA [NM_207648]	-0.31	0.004	0.550

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Spr2d	NM_011470	ref Mus musculus small proline-rich protein 2D (Spr2d), mRNA [NM_011470]	-0.31	0.040	1.000
Naglu	NM_013792	ref Mus musculus alpha-N-acetylglucosaminidase (Sanfilippo disease IIIB) (Naglu), mRNA [NM_013792]	-0.31	0.002	0.384
chr5:139230332-139230823_R	chr5:139230332-139230823_R	lincRNA:chr5:139230332-139230823 reverse strand	-0.31	0.006	0.648
chr16:9129538-9137898_R	chr16:9129538-9137898_R	lincRNA:chr16:9129538-9137898 reverse strand	-0.32	0.044	1.000
Ppl	NM_008909	ref Mus musculus periplakin (Ppl), mRNA [NM_008909]	-0.32	0.011	0.774
chr2:35829956-35830757_R	chr2:35829956-35830757_R	lincRNA:chr2:35829956-35830757 reverse strand	-0.32	0.018	0.873
ENSMUST00000113874	ENSMUST00000113874	ens histocompatibility 2, Q region locus 1 Gene [Source:MGI Symbol;Acc:MGI:95928] [ENSMUST00000113874]	-0.32	0.006	0.624
Mfsd7c	NM_145447	ref Mus musculus major facilitator superfamily domain containing 7C (Mfsd7c), mRNA [NM_145447]	-0.32	0.007	0.675
0610008F07Rik	NR_027970	ref Mus musculus RIKEN cDNA 0610008F07 gene (0610008F07Rik), non-coding RNA [NR_027970]	-0.32	0.049	1.000
2310006M14Rik	XR_033650	ref PREDICTED: Mus musculus RIKEN cDNA 2310006M14 gene (2310006M14Rik), misc RNA [XR_033650]	-0.32	0.039	1.000
LOC100040974	XR_032320	ref PREDICTED: Mus musculus similar to RIKEN cDNA 5830484A20 gene (LOC100040974), misc RNA [XR_032320]	-0.32	0.038	1.000
ENSMUST00000077662	ENSMUST00000077662	ens histocompatibility 2, M region locus 2 Gene [Source:MGI Symbol;Acc:MGI:95914] [ENSMUST00000077662]	-0.32	0.014	0.825
chr6:31017987-31174287_R	chr6:31017987-31174287_R	lincRNA:chr6:31017987-31174287 reverse strand	-0.32	0.043	1.000
chr17:26911397-26917047_F	chr17:26911397-26917047_F	lincRNA:chr17:26911397-26917047 forward strand	-0.32	0.010	0.758
Ccdc159	NM_025977	ref Mus musculus coiled-coil domain containing 159 (Ccdc159), transcript variant 2, mRNA [NM_025977]	-0.32	0.019	0.881
chr12:88154776-88184372_R	chr12:88154776-88184372_R	lincRNA:chr12:88154776-88184372 reverse strand	-0.32	0.035	1.000
Tyro3	NM_019392	ref Mus musculus TYRO3 protein tyrosine kinase 3 (Tyr3), mRNA [NM_019392]	-0.32	0.005	0.590
chr13:94182877-94203852_F	chr13:94182877-94203852_F	lincRNA:chr13:94182877-94203852 forward strand	-0.32	0.041	1.000
Nfkbib	NM_010908	ref Mus musculus nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta (Nfkbib), mRNA [NM_010908]	-0.32	0.001	0.261
Pet112l	NM_144896	ref Mus musculus PET112-like (yeast) (Pet112l), nuclear gene encoding mitochondrial protein, mRNA [NM_144896]	-0.32	0.000	0.162
chr17:26911397-26917047_F	chr17:26911397-26917047_F	lincRNA:chr17:26911397-26917047 forward strand	-0.32	0.011	0.770
4833419E13Rik	AK014724	gb Mus musculus 0 day neonate head cDNA, RIKEN full-length enriched library, clone:4833419E13 product:inferred: RIKEN cDNA 4833419E13 gene, full insert sequence. [AK014724]	-0.32	0.027	0.982
ENSMUST00000110990	ENSMUST00000110990	ens OTTMUSG00000022819 protein [Source:UniProtKB/TrEMBL;Acc:Q8R020] [ENSMUST00000110990]	-0.32	0.049	1.000
Gon4l	XM_001478845	ref PREDICTED: Mus musculus RIKEN cDNA 5830417I10 gene (5830417I10Rik), mRNA [XM_001478845]	-0.32	0.049	1.000
Gm4282	XM_001476842	ref PREDICTED: Mus musculus hypothetical protein LOC100046131 (LOC100046131), mRNA [XM_001476842]	-0.32	0.028	0.984

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Slc19a1	NM_031196	ref Mus musculus solute carrier family 19 (sodium/hydrogen exchanger), member 1 (Slc19a1), mRNA [NM_031196]	-0.32	0.024	0.954
chr10:117021051-117038683_R	chr10:117021051-117038683_R	lincRNA:chr10:117021051-117038683 reverse strand	-0.33	0.021	0.909
1700061G19Rik	NM_030141	ref Mus musculus RIKEN cDNA 1700061G19 gene (1700061G19Rik), mRNA [NM_030141]	-0.33	0.013	0.812
Fzd5	NM_022721	ref Mus musculus frizzled homolog 5 (Drosophila) (Fzd5), transcript variant 1, mRNA [NM_022721]	-0.33	0.025	0.960
Aldh6a1	NM_134042	ref Mus musculus aldehyde dehydrogenase family 6, subfamily A1 (Aldh6a1), nuclear gene encoding mitochondrial protein, mRNA [NM_134042]	-0.33	0.001	0.261
E230028L10Rik	ENSIMUST00000105593	ens RIKEN cDNA E230028L10 gene Gene [Source:MGI Symbol;Acc:MGI:2685285] [ENSIMUST00000105593]	-0.33	0.048	1.000
Echdc2	NM_026728	ref Mus musculus enoyl Coenzyme A hydratase domain containing 2 (Echdc2), mRNA [NM_026728]	-0.33	0.002	0.357
Gm5607	NR_027975	ref Mus musculus predicted gene 5607 (Gm5607), non-coding RNA [NR_027975]	-0.33	0.004	0.568
chr17:95158347-95160942_F	chr17:95158347-95160942_F	lincRNA:chr17:95158347-95160942 forward strand	-0.33	0.029	0.988
Ccdc85a	NM_181577	ref Mus musculus coiled-coil domain containing 85A (Ccdc85a), transcript variant 1, mRNA [NM_181577]	-0.33	0.045	1.000
Snap91	NM_013669	ref Mus musculus synaptosomal-associated protein 91 (Snap91), mRNA [NM_013669]	-0.33	0.028	0.986
Olf1058	NM_146391	ref Mus musculus olfactory receptor 1058 (Olf1058), mRNA [NM_146391]	-0.33	0.046	1.000
4930471G03Rik	BU938417	gb AGENCOURT_10518739 NIH_MGC_169 Mus musculus cDNA clone IMAGE:6706548 5', mRNA sequence [BU938417]	-0.33	0.032	1.000
Dbp	NM_016974	ref Mus musculus D site albumin promoter binding protein (Dbp), mRNA [NM_016974]	-0.33	0.027	0.983
chr18:78190463-78235438_R	chr18:78190463-78235438_R	lincRNA:chr18:78190463-78235438 reverse strand	-0.33	0.042	1.000
Ankrd36	NM_023816	ref Mus musculus ankyrin repeat domain 36 (Ankrd36), mRNA [NM_023816]	-0.33	0.020	0.895
chr8:13507348-13543773_R	chr8:13507348-13543773_R	lincRNA:chr8:13507348-13543773 reverse strand	-0.33	0.041	1.000
Scrt1	NM_130893	ref Mus musculus scratch homolog 1, zinc finger protein (Drosophila) (Scrt1), mRNA [NM_130893]	-0.33	0.011	0.766
Ln timer	NM_001159577	ref Mus musculus ligand of numb-protein X 1 (Ln timer), transcript variant 1, mRNA [NM_001159577]	-0.33	0.032	1.000
Clstn3	NM_153508	ref Mus musculus calyculin 3 (Clstn3), mRNA [NM_153508]	-0.34	0.018	0.876
Hrk	NM_007545	ref Mus musculus harakiri, BCL2 interacting protein (contains only BH3 domain) (Hrk), mRNA [NM_007545]	-0.34	0.017	0.858
chr9:56910620-56919667_F	chr9:56910620-56919667_F	lincRNA:chr9:56910620-56919667 forward strand	-0.34	0.028	0.983
9230112J17Rik	AK038653	gb Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched library, clone:A230052I24 product:unclassifiable, full insert sequence. [AK038653]	-0.34	0.006	0.661
Penk	NM_001002927	ref Mus musculus preproenkephalin (Penk), mRNA [NM_001002927]	-0.34	0.007	0.686
Gstt2	NM_010361	ref Mus musculus glutathione S-transferase, theta 2 (Gstt2), mRNA [NM_010361]	-0.34	0.002	0.409
chr16:50715231-50841124_R	chr16:50715231-50841124_R	lincRNA:chr16:50715231-50841124 reverse strand	-0.34	0.020	0.895
Krt78	NM_212487	ref Mus musculus keratin 78 (Krt78), mRNA [NM_212487]	-0.34	0.027	0.983
chr10:24269165-24276690_F	chr10:24269165-24276690_F	lincRNA:chr10:24269165-24276690 forward strand	-0.34	0.024	0.951

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Slc9a3r1	NM_012030	ref Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1 (Slc9a3r1), mRNA [NM_012030]	-0.34	0.035	1.000
Tmem159	NM_145586	ref Mus musculus transmembrane protein 159 (Tmem159), mRNA [NM_145586]	-0.34	0.001	0.214
A_55_P2232410	A_55_P2232410	Unknown	-0.34	0.020	0.891
ENSMUST00000065530	ENSMUST00000065530	ens NOL1/NOP2/Sun domain family, member 7 Gene [Source:MGI (curated);Acc:MGI:1918168] [ENSMUST00000065530]	-0.34	0.021	0.904
chr19:5771425-5848475_F	chr19:5771425-5848475_F	lincRNA:chr19:5771425-5848475 forward strand	-0.34	0.048	1.000
Il3	NM_010556	ref Mus musculus interleukin 3 (Il3), mRNA [NM_010556]	-0.34	0.006	0.658
Amot	NM_153319	ref Mus musculus angiomin (Amot), mRNA [NM_153319]	-0.34	0.031	0.998
Prkcz	NM_008860	ref Mus musculus protein kinase C, zeta (Prkcz), transcript variant 1, mRNA [NM_008860]	-0.34	0.023	0.935
Sly	NM_201530	ref Mus musculus Sycp3 like Y-linked (Sly), mRNA [NM_201530]	-0.35	0.019	0.881
ENSMUST00000100300	ENSMUST00000100300	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3U112] [ENSMUST00000100300]	-0.35	0.041	1.000
H2-T23	NM_010398	ref Mus musculus histocompatibility 2, T region locus 23 (H2-T23), mRNA [NM_010398]	-0.35	0.001	0.214
Kbtbd5	NM_028202	ref Mus musculus kelch repeat and BTB (POZ) domain containing 5 (Kbtbd5), mRNA [NM_028202]	-0.35	0.001	0.214
D6Ertd160e	AK053343	gb Mus musculus 0 day neonate eyeball cDNA, RIKEN full-length enriched library, clone:E130010007 product:unclassifiable, full insert sequence. [AK053343]	-0.35	0.036	1.000
chr10:66349796-66378261_R	chr10:66349796-66378261_R	lincRNA:chr10:66349796-66378261 reverse strand	-0.35	0.032	1.000
chr3:34497447-34501170_R	chr3:34497447-34501170_R	lincRNA:chr3:34497447-34501170 reverse strand	-0.35	0.009	0.737
LOC630285	XR_031378	ref PREDICTED: Mus musculus similar to human leucocyte antigen B (LOC630285), misc RNA [XR_031378]	-0.35	0.001	0.263
chr5:113920850-113950200_F	chr5:113920850-113950200_F	lincRNA:chr5:113920850-113950200 forward strand	-0.35	0.039	1.000
AA414903	BX513744	gb BX513744 Knowles Solter mouse 2 cell Mus musculus cDNA clone IMAGp998E181916 ; IMAGE:777977, mRNA sequence [BX513744]	-0.35	0.036	1.000
Myrip	NM_144557	ref Mus musculus myosin VIIA and Rab interacting protein (Myrip), mRNA [NM_144557]	-0.35	0.014	0.825
chr5:35893908-35896613_R	chr5:35893908-35896613_R	lincRNA:chr5:35893908-35896613 reverse strand	-0.35	0.027	0.975
Vmn1r73	NM_134203	ref Mus musculus vomeronasal 1 receptor 73 (Vmn1r73), mRNA [NM_134203]	-0.35	0.034	1.000
Il17f	NM_145856	ref Mus musculus interleukin 17F (Il17f), mRNA [NM_145856]	-0.35	0.043	1.000
LOC640605	XR_034772	ref PREDICTED: Mus musculus similar to intelectin 2 (LOC640605), misc RNA [XR_034772]	-0.35	0.027	0.982
BC021891	NM_145608	ref Mus musculus cDNA sequence BC021891 (BC021891), mRNA [NM_145608]	-0.35	0.014	0.825
Tuft1	NM_011656	ref Mus musculus tuftelin 1 (Tuft1), mRNA [NM_011656]	-0.35	0.025	0.966
Aldh6a1	NM_134042	ref Mus musculus aldehyde dehydrogenase family 6, subfamily A1 (Aldh6a1), nuclear gene encoding mitochondrial protein, mRNA [NM_134042]	-0.35	0.002	0.432
LOC676689	XM_992161	ref PREDICTED: Mus musculus similar to H-2 class I histocompatibility antigen, L-D alpha chain precursor (LOC676689), mRNA [XM_992161]	-0.35	0.002	0.404

Online Supplemental Table IV: mG4H-Veh Only					
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
LOC641235	XM_918592	ref PREDICTED: Mus musculus similar to MHC class Ib antigen Qa-1c (LOC641235), mRNA [XM_918592]	-0.36	0.025	0.963
Hoxb5	NM_008268	ref Mus musculus homeobox B5 (Hoxb5), mRNA [NM_008268]	-0.36	0.012	0.787
chr1:193755364-193770539_R	chr1:193755364-193770539_R	lincRNA:chr1:193755364-193770539 reverse strand	-0.36	0.017	0.858
chr9:40031056-40031687_R	chr9:40031056-40031687_R	lincRNA:chr9:40031056-40031687 reverse strand	-0.36	0.038	1.000
Tuba3a	NM_009446	ref Mus musculus tubulin, alpha 3A (Tuba3a), mRNA [NM_009446]	-0.36	0.042	1.000
Tmem120a	NM_172541	ref Mus musculus transmembrane protein 120A (Tmem120a), mRNA [NM_172541]	-0.36	0.001	0.261
Gins1	NM_027014	ref Mus musculus GINS complex subunit 1 (Psf1 homolog) (Gins1), transcript variant 1, mRNA [NM_027014]	-0.36	0.000	0.113
LOC630837	XM_904200	ref PREDICTED: Mus musculus similar to Ig mu-chain precursor (V76-D-J4), transcript variant 1 (LOC630837), mRNA [XM_904200]	-0.36	0.012	0.786
Fam55c	NM_001134494	ref Mus musculus family with sequence similarity 55, member C (Fam55c), mRNA [NM_001134494]	-0.36	0.010	0.743
Atp9b	NM_015805	ref Mus musculus ATPase, class II, type 9B (Atp9b), mRNA [NM_015805]	-0.36	0.006	0.640
ENSMUST00000098987	ENSMUST00000098987	ens progesterone receptor Gene [Source:MGI (curated);Acc:MGI:97567] [ENSMUST00000098987]	-0.36	0.025	0.961
Gnao1	NM_001113384	ref Mus musculus guanine nucleotide binding protein, alpha O (Gnao1), transcript variant B, mRNA [NM_001113384]	-0.36	0.028	0.984
chr17:8719950-8783850_R	chr17:8719950-8783850_R	lincRNA:chr17:8719950-8783850 reverse strand	-0.36	0.028	0.984
ENSMUST00000103311	ENSMUST00000103311	gb Mus musculus partial mRNA for immunoglobulin light chain variable region (IGLV1 gene),antibody 8H4. [AJ278076]	-0.36	0.043	1.000
chr14:22267795-22319045_R	chr14:22267795-22319045_R	lincRNA:chr14:22267795-22319045 reverse strand	-0.36	0.017	0.854
chr1:138442536-138521080_F	chr1:138442536-138521080_F	lincRNA:chr1:138442536-138521080 forward strand	-0.36	0.038	1.000
Olf119	NM_001011830	ref Mus musculus olfactory receptor 119 (Olf119), mRNA [NM_001011830]	-0.36	0.027	0.976
Slco6b1	NM_001039475	ref Mus musculus solute carrier organic anion transporter family, member 6b1 (Slco6b1), mRNA [NM_001039475]	-0.36	0.026	0.973
chr3:51990494-51991875_F	chr3:51990494-51991875_F	lincRNA:chr3:51990494-51991875 forward strand	-0.37	0.047	1.000
Itpr2	AB012393	gb Mus musculus TIPR mRNA for inositol 1,4,5 trisphosphate receptor type2, complete cds. [AB012393]	-0.37	0.018	0.869
Tuba3b	NM_009449	ref Mus musculus tubulin, alpha 3B (Tuba3b), mRNA [NM_009449]	-0.37	0.012	0.786
Pax2	NM_011037	ref Mus musculus paired box gene 2 (Pax2), mRNA [NM_011037]	-0.37	0.010	0.758
Slc39a4	NM_028064	ref Mus musculus solute carrier family 39 (zinc transporter), member 4 (Slc39a4), mRNA [NM_028064]	-0.37	0.040	1.000
Ablim3	NM_198649	ref Mus musculus actin binding LIM protein family, member 3 (Ablim3), transcript variant 1, mRNA [NM_198649]	-0.37	0.002	0.358
Vdr	NM_009504	ref Mus musculus vitamin D receptor (Vdr), mRNA [NM_009504]	-0.37	0.046	1.000
3110099E03Rik	NR_030712	ref Mus musculus RIKEN cDNA 3110099E03 gene (3110099E03Rik), non-coding RNA [NR_030712]	-0.37	0.043	1.000
Gm7628	ENSMUST00000084990	ens predicted gene 7628 Gene [Source:MGI Symbol;Acc:MGI:3643956] [ENSMUST00000084990]	-0.37	0.043	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Fam179a	NM_177087	ref Mus musculus family with sequence similarity 179, member A (Fam179a), mRNA [NM_177087]	-0.37	0.049	1.000
Olfr794	NM_146378	ref Mus musculus olfactory receptor 794 (Olfr794), mRNA [NM_146378]	-0.37	0.003	0.447
Hoxa5	NM_010453	ref Mus musculus homeobox A5 (Hoxa5), mRNA [NM_010453]	-0.37	0.036	1.000
chr19:44651000-44651447_R	chr19:44651000-44651447_R	lincRNA:chr19:44651000-44651447 reverse strand	-0.37	0.030	0.998
chr6:11996975-12037300_R	chr6:11996975-12037300_R	lincRNA:chr6:11996975-12037300 reverse strand	-0.38	0.025	0.965
chr11:112898724-113062945_F	chr11:112898724-113062945_F	lincRNA:chr11:112898724-113062945 forward strand	-0.38	0.027	0.981
Gm3064	XM_001475563	ref PREDICTED: Mus musculus similar to UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 4 (LOC100040960), mRNA [XM_001475563]	-0.38	0.010	0.743
6530439I21	AK078387	gb Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:6530439I21 product:unclassifiable, full insert sequence. [AK078387]	-0.38	0.027	0.983
A530016L24Rik	NM_177039	ref Mus musculus RIKEN cDNA A530016L24 gene (A530016L24Rik), mRNA [NM_177039]	-0.38	0.020	0.889
Gm4273	XM_001479617	ref PREDICTED: Mus musculus hypothetical protein LOC100048202 (LOC100048202), mRNA [XM_001479617]	-0.38	0.015	0.832
Gm8404	XM_987474	ref PREDICTED: Mus musculus predicted gene, EG666984 (EG666984), mRNA [XM_987474]	-0.38	0.045	1.000
chr7:140011140-140018815_R	chr7:140011140-140018815_R	lincRNA:chr7:140011140-140018815 reverse strand	-0.38	0.015	0.830
Pak7	NM_172858	ref Mus musculus p21 protein (Cdc42/Rac)-activated kinase 7 (Pak7), mRNA [NM_172858]	-0.38	0.029	0.989
Olfr1290	NM_146262	ref Mus musculus olfactory receptor 1290 (Olfr1290), mRNA [NM_146262]	-0.38	0.039	1.000
Defa-rs1	NM_007844	ref Mus musculus defensin, alpha, related sequence 1 (Defa-rs1), mRNA [NM_007844]	-0.38	0.047	1.000
chr7:91558475-91733625_R	chr7:91558475-91733625_R	lincRNA:chr7:91558475-91733625 reverse strand	-0.38	0.007	0.674
chr18:5808025-5818625_F	chr18:5808025-5818625_F	lincRNA:chr18:5808025-5818625 forward strand	-0.38	0.044	1.000
LOC100048571	ENSMUST00000089097	ens RIKEN cDNA 1110057P08 gene Gene [Source:MGI Symbol;Acc:MGI:1916094] [ENSMUST00000089097]	-0.38	0.030	0.998
Rad9b	NM_144912	ref Mus musculus RAD9 homolog B (S. cerevisiae) (Rad9b), mRNA [NM_144912]	-0.38	0.021	0.899
chr6:54591416-54597566_R	chr6:54591416-54597566_R	lincRNA:chr6:54591416-54597566 reverse strand	-0.38	0.028	0.983
chr3:131128972-131163308_R	chr3:131128972-131163308_R	lincRNA:chr3:131128972-131163308 reverse strand	-0.39	0.046	1.000
Crxos1	NM_001033638	ref Mus musculus Crx opposite strand transcript 1 (Crxos1), mRNA [NM_001033638]	-0.39	0.007	0.681
9430014N10Rik	AK020418	gb Mus musculus 12 days embryo embryonic body between diaphragm region and neck cDNA, RIKEN full-length enriched library, clone:9430014N10 product:unclassifiable, full insert sequence. [AK020418]	-0.39	0.047	1.000
chr8:18587198-18592948_F	chr8:18587198-18592948_F	lincRNA:chr8:18587198-18592948 forward strand	-0.39	0.024	0.957
E130309D14Rik	NM_001013784	ref Mus musculus RIKEN cDNA E130309D14 gene (E130309D14Rik), mRNA [NM_001013784]	-0.39	0.008	0.707
chr11:53574182-53574644_R	chr11:53574182-53574644_R	lincRNA:chr11:53574182-53574644 reverse strand	-0.39	0.023	0.943
Bend4	NM_001164806	ref Mus musculus BEN domain containing 4 (Bend4), mRNA [NM_001164806]	-0.39	0.021	0.914

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
chr13:94193230-94193710_F	chr13:94193230-94193710_F	lincRNA:chr13:94193230-94193710 forward strand	-0.39	0.022	0.934
Gm5118	XM_898721	ref PREDICTED: Mus musculus predicted gene, EG330819 (EG330819), mRNA [XM_898721]	-0.39	0.014	0.813
Gm14211	XM_001481005	ref PREDICTED: Mus musculus hypothetical protein LOC100048717 (LOC100048717), mRNA [XM_001481005]	-0.39	0.022	0.935
Sparcl1	NM_010097	ref Mus musculus SPARC-like 1 (Sparcl1), mRNA [NM_010097]	-0.39	0.004	0.550
chr14:77511189-77522852_R	chr14:77511189-77522852_R	lincRNA:chr14:77511189-77522852 reverse strand	-0.39	0.009	0.720
chr17:21177225-21187525_R	chr17:21177225-21187525_R	lincRNA:chr17:21177225-21187525 reverse strand	-0.39	0.026	0.970
chr12:50490638-50508093_F	chr12:50490638-50508093_F	lincRNA:chr12:50490638-50508093 forward strand	-0.39	0.006	0.634
Rasd2	NM_029182	ref Mus musculus RASD family, member 2 (Rasd2), mRNA [NM_029182]	-0.39	0.002	0.380
ENSMUST00000112482	ENSMUST00000112482	ens polymerase (DNA directed), epsilon Gene [Source:MGI (curated);Acc:MGI:1196391] [ENSMUST00000112482]	-0.39	0.033	1.000
Ssty1	NM_009220	ref Mus musculus spermiogenesis specific transcript on the Y 1 (Ssty1), mRNA [NM_009220]	-0.39	0.039	1.000
chr15:85412264-85549139_R	chr15:85412264-85549139_R	lincRNA:chr15:85412264-85549139 reverse strand	-0.39	0.036	1.000
Nrp	NM_001013372	ref Mus musculus neural regeneration protein (Nrp), mRNA [NM_001013372]	-0.39	0.007	0.661
chr11:120094176-120097622_R	chr11:120094176-120097622_R	lincRNA:chr11:120094176-120097622 reverse strand	-0.40	0.023	0.942
Asl	NM_133768	ref Mus musculus argininosuccinate lyase (Asl), mRNA [NM_133768]	-0.40	0.026	0.973
Ln timer	NM_001159577	ref Mus musculus ligand of numb-protein X 1 (Ln timer), transcript variant 1, mRNA [NM_001159577]	-0.40	0.014	0.825
2410124H12Rik	ENSMUST00000054592	ens RIKEN cDNA 2410124H12 gene Gene [Source:MGI Symbol;Acc:MGI:1924035] [ENSMUST00000054592]	-0.40	0.028	0.984
chr17:21866967-21891392_R	chr17:21866967-21891392_R	lincRNA:chr17:21866967-21891392 reverse strand	-0.40	0.028	0.983
Ahrr	NM_009644	ref Mus musculus aryl-hydrocarbon receptor repressor (Ahrr), mRNA [NM_009644]	-0.40	0.006	0.624
4930528J11Rik	AK029922	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4931441A13 product:unclassifiable, full insert sequence. [AK029922]	-0.40	0.016	0.848
ENSMUST00000110900	ENSMUST00000110900	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3U0N9] [ENSMUST00000110900]	-0.40	0.048	1.000
1600002K03Rik	NM_027207	ref Mus musculus RIKEN cDNA 1600002K03 gene (1600002K03Rik), mRNA [NM_027207]	-0.40	0.000	0.071
ENSMUST00000101129	ENSMUST00000101129	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UHD0] [ENSMUST00000101129]	-0.40	0.040	1.000
YdjC	NM_026940	ref Mus musculus YdjC homolog (bacterial) (YdjC), mRNA [NM_026940]	-0.40	0.000	0.097
Olfir1154	NM_146647	ref Mus musculus olfactory receptor 1154 (Olfir1154), mRNA [NM_146647]	-0.40	0.004	0.550
LOC100044306	XM_001471504	ref PREDICTED: Mus musculus hypothetical protein LOC100044306 (LOC100044306), mRNA [XM_001471504]	-0.40	0.031	1.000
chr7:3338500-3360725_F	chr7:3338500-3360725_F	lincRNA:chr7:3338500-3360725 forward strand	-0.40	0.008	0.694

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
chr17:83497541-83520081_R	chr17:83497541-83520081_R	lincRNA:chr17:83497541-83520081 reverse strand	-0.40	0.025	0.965
chr7:99879368-99889978_R	chr7:99879368-99889978_R	lincRNA:chr7:99879368-99889978 reverse strand	-0.41	0.029	0.986
Zfy2	NM_009571	ref Mus musculus zinc finger protein 2, Y linked (Zfy2), mRNA [NM_009571]	-0.41	0.046	1.000
2210010C17Rik	NM_027308	ref Mus musculus RIKEN cDNA 2210010C17 gene (2210010C17Rik), mRNA [NM_027308]	-0.41	0.007	0.661
chr10:42691088-42710968_R	chr10:42691088-42710968_R	lincRNA:chr10:42691088-42710968 reverse strand	-0.41	0.026	0.973
Fanca	NM_016925	ref Mus musculus Fanconi anemia, complementation group A (Fanca), mRNA [NM_016925]	-0.41	0.005	0.621
Pik3cd	NM_001164051	ref Mus musculus phosphatidylinositol 3-kinase catalytic delta polypeptide (Pik3cd), transcript variant 6, mRNA [NM_001164051]	-0.41	0.010	0.758
chr12:73789535-73799787_R	chr12:73789535-73799787_R	lincRNA:chr12:73789535-73799787 reverse strand	-0.41	0.026	0.973
chr17:26669587-26669907_F	chr17:26669587-26669907_F	lincRNA:chr17:26669587-26669907 forward strand	-0.41	0.023	0.945
4932438A13Rik	NM_172679	ref Mus musculus RIKEN cDNA 4932438A13 gene (4932438A13Rik), mRNA [NM_172679]	-0.41	0.009	0.720
Hoxb4	NM_010459	ref Mus musculus homeobox B4 (Hoxb4), mRNA [NM_010459]	-0.41	0.005	0.578
chr1:94077221-94091396_R	chr1:94077221-94091396_R	lincRNA:chr1:94077221-94091396 reverse strand	-0.41	0.028	0.983
Bdnf	NM_007540	ref Mus musculus brain derived neurotrophic factor (Bdnf), transcript variant 1, mRNA [NM_007540]	-0.41	0.004	0.516
chr8:126268510-126290810_R	chr8:126268510-126290810_R	lincRNA:chr8:126268510-126290810 reverse strand	-0.41	0.014	0.812
chr17:33995525-34028025_F	chr17:33995525-34028025_F	lincRNA:chr17:33995525-34028025 forward strand	-0.41	0.028	0.983
chr4:97144314-97144755_R	chr4:97144314-97144755_R	lincRNA:chr4:97144314-97144755 reverse strand	-0.41	0.023	0.936
AU015836	NR_028320	ref Mus musculus expressed sequence AU015836 (AU015836), non-coding RNA [NR_028320]	-0.41	0.048	1.000
ENSMUST00000099476	ENSMUST00000099476	ens Putative uncharacterized proteinMCG1044050 Fragment ; [Source:UniProtKB/TrEMBL;Acc:Q8CDW6] [ENSMUST00000099476]	-0.41	0.048	1.000
chr8:15582950-15609500_F	chr8:15582950-15609500_F	lincRNA:chr8:15582950-15609500 forward strand	-0.42	0.022	0.919
Gpr115	NM_030067	ref Mus musculus G protein-coupled receptor 115 (Gpr115), mRNA [NM_030067]	-0.42	0.040	1.000
chr8:86706637-86707004_R	chr8:86706637-86707004_R	lincRNA:chr8:86706637-86707004 reverse strand	-0.42	0.026	0.972
LOC100039617	XM_001472803	ref PREDICTED: Mus musculus hypothetical protein LOC100039617, transcript variant 1 (LOC100039617), mRNA [XM_001472803]	-0.42	0.010	0.764
Gm4956	NR_002858	ref Mus musculus predicted gene 4956 (Gm4956), non-coding RNA [NR_002858]	-0.42	0.018	0.863
Pole	NM_011132	ref Mus musculus polymerase (DNA directed), epsilon (Pole), mRNA [NM_011132]	-0.42	0.001	0.231
ENSMUST00000058298	ENSMUST00000058298	tc BI54_MOUSE (P28664) Brain protein I54, complete [TC1600266]	-0.42	0.048	1.000
Adam6a	NM_174885	ref Mus musculus a disintegrin and metallopeptidase domain 6A (Adam6a), mRNA [NM_174885]	-0.42	0.032	1.000
8430423G03Rik	ENSMUST00000110507	ref PREDICTED: Mus musculus RIKEN cDNA 8430423G03 gene (8430423G03Rik), mRNA [XM_975364]	-0.42	0.005	0.594
LOC100047229	XM_001477692	ref PREDICTED: Mus musculus similar to RIKEN cDNA 3110050K21 (LOC100047229), mRNA [XM_001477692]	-0.42	0.044	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
ENSMUST00000130418	ENSMUST00000130418	ens aldehyde dehydrogenase 1 family, member L1 Gene [Source:MGI (curated);Acc:MGI:1340024] [ENSMUST00000130418]	-0.42	0.046	1.000
ENSMUST00000105030	ENSMUST00000105030	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q6R5E0] [ENSMUST00000105030]	-0.42	0.019	0.881
Pde11a	NM_001081033	ref Mus musculus phosphodiesterase 11A (Pde11a), mRNA [NM_001081033]	-0.42	0.021	0.916
ENSMUST00000100368	ENSMUST00000100368	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3T2T9] [ENSMUST00000100368]	-0.42	0.004	0.538
chr11:31647436-31647791_R	chr11:31647436-31647791_R	lincRNA:chr11:31647436-31647791 reverse strand	-0.42	0.040	1.000
A330021E22Rik	NM_172447	ref Mus musculus RIKEN cDNA A330021E22 gene (A330021E22Rik), mRNA [NM_172447]	-0.43	0.036	1.000
AU015791	AK139027	gb Mus musculus adult male aorta and vein cDNA, RIKEN full-length enriched library, clone:A530083O18 product:unclassifiable, full insert sequence. [AK139027]	-0.43	0.017	0.855
BB114814	XM_915703	ref PREDICTED: Mus musculus similar to deleted in malignant brain tumors 1 (LOC546006), mRNA [XM_915703]	-0.43	0.002	0.377
1700123L14Rik	NR_003643	ref Mus musculus RIKEN cDNA 1700123L14 gene (1700123L14Rik), non-coding RNA [NR_003643]	-0.43	0.015	0.840
chr15:61984389-62102500_R	chr15:61984389-62102500_R	lincRNA:chr15:61984389-62102500 reverse strand	-0.43	0.036	1.000
XM_001474366	XM_001474366	ref PREDICTED: Mus musculus hypothetical protein LOC100040243 (LOC100040243), mRNA [XM_001474366]	-0.43	0.008	0.693
chr13:53100475-53113850_F	chr13:53100475-53113850_F	lincRNA:chr13:53100475-53113850 forward strand	-0.43	0.003	0.439
Creb3l4	NM_030080	ref Mus musculus cAMP responsive element binding protein 3-like 4 (Creb3l4), mRNA [NM_030080]	-0.43	0.026	0.973
Mospd4	NM_028086	ref Mus musculus motile sperm domain containing 4 (Mospd4), mRNA [NM_028086]	-0.43	0.007	0.683
chr17:15357376-15385701_R	chr17:15357376-15385701_R	lincRNA:chr17:15357376-15385701 reverse strand	-0.43	0.006	0.654
chr16:4871449-4874336_R	chr16:4871449-4874336_R	lincRNA:chr16:4871449-4874336 reverse strand	-0.43	0.024	0.957
1700010B08Rik	ENSMUST00000073081	ens RIKEN cDNA 1700010B08 gene Gene [Source:MGI Symbol;Acc:MGI:1922735] [ENSMUST00000073081]	-0.43	0.043	1.000
E130119H09Rik	XR_002314	ref PREDICTED: Mus musculus RIKEN cDNA E130119H09 gene (E130119H09Rik), misc RNA [XR_002314]	-0.43	0.009	0.737
chr17:80133213-80144417_F	chr17:80133213-80144417_F	lincRNA:chr17:80133213-80144417 forward strand	-0.43	0.037	1.000
Gm4696	NM_001099918	ref Mus musculus predicted gene 4696 (Gm4696), mRNA [NM_001099918]	-0.43	0.012	0.789
ENSMUST00000096426	ENSMUST00000096426	ens RIKEN cDNA C230004F18 gene Gene [Source:MGI Symbol;Acc:MGI:3041217] [ENSMUST00000096426]	-0.44	0.038	1.000
Myot	NM_001033621	ref Mus musculus myotilin (Myot), mRNA [NM_001033621]	-0.44	0.001	0.275
BC049715	NM_178776	ref Mus musculus cDNA sequence BC049715 (BC049715), mRNA [NM_178776]	-0.44	0.020	0.895
ENSMUST00000117486	ENSMUST00000117486	ens ficolin B Gene [Source:MGI (curated);Acc:MGI:1341158] [ENSMUST00000117486]	-0.44	0.021	0.897
chr19:53517903-53540753_R	chr19:53517903-53540753_R	lincRNA:chr19:53517903-53540753 reverse strand	-0.44	0.017	0.863
Rab39	NM_175562	ref Mus musculus RAB39, member RAS oncogene family (Rab39), mRNA [NM_175562]	-0.44	0.008	0.688
chr4:82979473-83035023_F	chr4:82979473-83035023_F	lincRNA:chr4:82979473-83035023 forward strand	-0.44	0.018	0.865

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
Tmeff1	NM_021436	ref Mus musculus transmembrane protein with EGF-like and two follistatin-like domains 1 (Tmeff1), mRNA [NM_021436]	-0.44	0.004	0.538
Trim65	NM_178802	ref Mus musculus tripartite motif-containing 65 (Trim65), mRNA [NM_178802]	-0.44	0.001	0.214
chr15:36800254-36809571_R	chr15:36800254-36809571_R	lincRNA:chr15:36800254-36809571 reverse strand	-0.44	0.046	1.000
LOC100047336	XM_001477926	ref PREDICTED: Mus musculus similar to monoclonal anti-alpha-1,3-galactosyltransferase IgM heavy chain (LOC100047336), mRNA [XM_001477926]	-0.44	0.013	0.799
chr17:10517466-10522172_F	chr17:10517466-10522172_F	lincRNA:chr17:10517466-10522172 forward strand	-0.44	0.028	0.983
Epb4.1l5	NM_145506	ref Mus musculus erythrocyte protein band 4.1-like 5 (Epb4.1l5), transcript variant 1, mRNA [NM_145506]	-0.44	0.002	0.403
Ltb4r2	NM_020490	ref Mus musculus leukotriene B4 receptor 2 (Ltb4r2), mRNA [NM_020490]	-0.44	0.043	1.000
1700018P22Rik	XM_001472999	ref PREDICTED: Mus musculus RIKEN cDNA 1700018P22 gene (1700018P22Rik), mRNA [XM_001472999]	-0.44	0.033	1.000
chr3:131128972-131163308_R	chr3:131128972-131163308_R	lincRNA:chr3:131128972-131163308 reverse strand	-0.45	0.037	1.000
chr5:44173484-44176009_F	chr5:44173484-44176009_F	lincRNA:chr5:44173484-44176009 forward strand	-0.45	0.050	1.000
chr7:96640618-96649018_F	chr7:96640618-96649018_F	lincRNA:chr7:96640618-96649018 forward strand	-0.45	0.016	0.848
LOC100044692	XM_001472863	ref PREDICTED: Mus musculus similar to aldehyde reductase (LOC100044692), mRNA [XM_001472863]	-0.45	0.023	0.941
Hist1h1d	NM_145713	ref Mus musculus histone cluster 1, H1d (Hist1h1d), mRNA [NM_145713]	-0.45	0.012	0.786
Tpd52l1	NM_009413	ref Mus musculus tumor protein D52-like 1 (Tpd52l1), mRNA [NM_009413]	-0.45	0.003	0.464
Dmrtc1a	NM_027591	ref Mus musculus DMRT-like family C1a (Dmrtc1a), transcript variant 1, mRNA [NM_027591]	-0.45	0.034	1.000
Sept6	NM_019942	ref Mus musculus septin 6 (Sept6), transcript variant 2, mRNA [NM_019942]	-0.45	0.002	0.377
Gm6477	XR_032300	ref PREDICTED: Mus musculus predicted gene, EG624165 (EG624165), misc RNA [XR_032300]	-0.45	0.030	0.994
XM_001477157	XM_001477157	ref PREDICTED: Mus musculus hypothetical protein LOC100046406 (LOC100046406), mRNA [XM_001477157]	-0.46	0.037	1.000
chr15:85421725-85424047_F	chr15:85421725-85424047_F	lincRNA:chr15:85421725-85424047 forward strand	-0.46	0.001	0.331
ENSMUST00000113311	ENSMUST00000113311	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UMM9] [ENSMUST00000113311]	-0.46	0.028	0.983
chrX:148732853-148761972_R	chrX:148732853-148761972_R	lincRNA:chrX:148732853-148761972 reverse strand	-0.46	0.036	1.000
chr6:82608223-82669023_R	chr6:82608223-82669023_R	lincRNA:chr6:82608223-82669023 reverse strand	-0.46	0.042	1.000
L3mbtl	NM_001081338	ref Mus musculus l(3)mbt-like (Drosophila) (L3mbtl), mRNA [NM_001081338]	-0.46	0.015	0.828
Tmem178	NM_026516	ref Mus musculus transmembrane protein 178 (Tmem178), mRNA [NM_026516]	-0.46	0.004	0.518
D830030K20Rik	NM_177135	ref Mus musculus RIKEN cDNA D830030K20 gene (D830030K20Rik), mRNA [NM_177135]	-0.46	0.019	0.881
Kcnc1	NM_008421	ref Mus musculus potassium voltage gated channel, Shaw-related subfamily, member 1 (Kcnc1), transcript variant B, mRNA [NM_008421]	-0.46	0.009	0.720
Kcnp2	NM_145703	ref Mus musculus Kv channel-interacting protein 2 (Kcnp2), transcript variant a, mRNA [NM_145703]	-0.46	0.001	0.263

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
4930547H16Rik	XM_001477863	ref PREDICTED: Mus musculus RIKEN cDNA 4930547H16 gene (4930547H16Rik), mRNA [XM_001477863]	-0.46	0.047	1.000
4930468A15Rik	ENSMUST00000114054	ens RIKEN cDNA 4930468A15 gene Gene [Source:MGI Symbol;Acc:MGI:1922237] [ENSMUST00000114054]	-0.46	0.012	0.783
Gm7568	XM_977441	ref PREDICTED: Mus musculus predicted gene, EG665282 (EG665282), mRNA [XM_977441]	-0.46	0.024	0.957
1700008K24Rik	XM_001479501	ref PREDICTED: Mus musculus RIKEN cDNA 1700008K24 gene (1700008K24Rik), mRNA [XM_001479501]	-0.47	0.009	0.712
ENSMUST00000107184	ENSMUST00000107184	ens SH3-domain GRB2-like 2 Gene [Source:MGI (curated);Acc:MGI:700009] [ENSMUST00000107184]	-0.47	0.041	1.000
chr5:149751979-149808240_F	chr5:149751979-149808240_F	lincRNA:chr5:149751979-149808240 forward strand	-0.47	0.034	1.000
Vmn1r22	NM_134178	ref Mus musculus vomeronasal 1 receptor 22 (Vmn1r22), mRNA [NM_134178]	-0.47	0.032	1.000
Mapkapk5	XM_001479242	ref PREDICTED: Mus musculus similar to MK-5 type 2 (LOC100047833), mRNA [XM_001479242]	-0.47	0.024	0.957
Gm13955	ENSMUST00000103640	ens TRAV6-3TRAV6D-3 Fragment ; [Source:UniProtKB/TrEMBL;Acc:Q5R1E6] [ENSMUST00000103638]	-0.47	0.043	1.000
Klhl38	NM_177755	ref Mus musculus kelch-like 38 (Drosophila) (Klhl38), mRNA [NM_177755]	-0.47	0.019	0.881
LOC100048338	XR_034632	ref PREDICTED: Mus musculus similar to Pdlim1 protein (LOC100048338), misc RNA [XR_034632]	-0.47	0.006	0.624
Dock4	NM_172803	ref Mus musculus dedicator of cytokinesis 4 (Dock4), mRNA [NM_172803]	-0.47	0.040	1.000
Olf1496	NM_146989	ref Mus musculus olfactory receptor 1496 (Olf1496), mRNA [NM_146989]	-0.47	0.013	0.802
chr3:127457767-127483408_R	chr3:127457767-127483408_R	lincRNA:chr3:127457767-127483408 reverse strand	-0.47	0.013	0.802
chr18:36470130-36489110_F	chr18:36470130-36489110_F	lincRNA:chr18:36470130-36489110 forward strand	-0.47	0.039	1.000
Cldn5	NM_013805	ref Mus musculus claudin 5 (Cldn5), mRNA [NM_013805]	-0.47	0.003	0.488
C130078N14	AK081811	gb Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, clone:C130078N14 product:unclassifiable, full insert sequence. [AK081811]	-0.47	0.028	0.986
Olf1406	NM_146763	ref Mus musculus olfactory receptor 1406 (Olf1406), mRNA [NM_146763]	-0.47	0.014	0.813
chr4:88583425-88584070_R	chr4:88583425-88584070_R	lincRNA:chr4:88583425-88584070 reverse strand	-0.48	0.009	0.730
chr15:73227424-73257474_F	chr15:73227424-73257474_F	lincRNA:chr15:73227424-73257474 forward strand	-0.48	0.035	1.000
Olf1161	NM_146848	ref Mus musculus olfactory receptor 1161 (Olf1161), mRNA [NM_146848]	-0.48	0.032	1.000
Olf1031	NM_001011759	ref Mus musculus olfactory receptor 1031 (Olf1031), mRNA [NM_001011759]	-0.48	0.036	1.000
ENSMUST00000076984	ENSMUST00000076984	ens RIKEN cDNA 1700028116 gene Gene [Source:MGI Symbol;Acc:MGI:1917253] [ENSMUST00000076984]	-0.48	0.026	0.973
H47	NM_024439	ref Mus musculus histocompatibility 47 (H47), mRNA [NM_024439]	-0.48	0.000	0.031
Olf490	NM_146498	ref Mus musculus olfactory receptor 490 (Olf490), mRNA [NM_146498]	-0.48	0.026	0.974
chr7:69088784-69089906_R	chr7:69088784-69089906_R	lincRNA:chr7:69088784-69089906 reverse strand	-0.48	0.046	1.000
chr8:123571640-123607481_R	chr8:123571640-123607481_R	lincRNA:chr8:123571640-123607481 reverse strand	-0.48	0.041	1.000
Map2k6	NM_011943	ref Mus musculus mitogen-activated protein kinase kinase 6 (Map2k6), mRNA [NM_011943]	-0.48	0.001	0.262

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
chr11:117835849-117842574_F	chr11:117835849-117842574_F	lincRNA:chr11:117835849-117842574 forward strand	-0.49	0.027	0.981
AY026312	NM_133359	ref Mus musculus cDNA sequence AY026312 (AY026312), mRNA [NM_133359]	-0.49	0.039	1.000
ENSMUST00000103326	ENSMUST00000103326	gb Mus musculus anti-DNA antibody Ig kappa chain mRNA, V-J region, hybridoma 104-67, partial cds. [U29595]	-0.49	0.050	1.000
chr16:40469578-40469759_F	chr16:40469578-40469759_F	lincRNA:chr16:40469578-40469759 forward strand	-0.49	0.024	0.952
chr5:149751979-149808240_F	chr5:149751979-149808240_F	lincRNA:chr5:149751979-149808240 forward strand	-0.49	0.017	0.854
Gm12474	ENSMUST00000066727	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q8BPS1] [ENSMUST00000066727]	-0.49	0.006	0.636
Gm2745	XM_001474423	ref PREDICTED: Mus musculus similar to transcription elongation factor B polypeptide 3C (LOC100040382), mRNA [XM_001474423]	-0.49	0.031	1.000
Tmem221	NM_001100462	ref Mus musculus transmembrane protein 221 (Tmem221), mRNA [NM_001100462]	-0.49	0.016	0.848
Klf15	NM_023184	ref Mus musculus Kruppel-like factor 15 (Klf15), mRNA [NM_023184]	-0.49	0.004	0.550
ENSMUST00000120051	ENSMUST00000120051	ens lipoma HMGIC fusion partner-like 2 Gene [Source:MGI (curated);Acc:MGI:2145236] [ENSMUST00000120051]	-0.49	0.031	0.998
Olf531	NM_146953	ref Mus musculus olfactory receptor 531 (Olf531), mRNA [NM_146953]	-0.49	0.017	0.858
chr4:59306575-59317850_F	chr4:59306575-59317850_F	lincRNA:chr4:59306575-59317850 forward strand	-0.49	0.025	0.957
Gstm7	NM_026672	ref Mus musculus glutathione S-transferase, mu 7 (Gstm7), mRNA [NM_026672]	-0.49	0.000	0.148
chr14:106068373-106146613_F	chr14:106068373-106146613_F	lincRNA:chr14:106068373-106146613 forward strand	-0.50	0.020	0.895
chr12:112224193-112225328_R	chr12:112224193-112225328_R	lincRNA:chr12:112224193-112225328 reverse strand	-0.50	0.005	0.621
Bhlhe23	ENSMUST00000061098	ens basic helix-loop-helix family, member e23 Gene [Source:MGI (curated);Acc:MGI:2153710] [ENSMUST00000061098]	-0.50	0.010	0.743
chr13:53100475-53113850_F	chr13:53100475-53113850_F	lincRNA:chr13:53100475-53113850 forward strand	-0.50	0.000	0.108
H2-Q8	NM_023124	ref Mus musculus histocompatibility 2, Q region locus 8 (H2-Q8), mRNA [NM_023124]	-0.50	0.001	0.337
chr17:84477999-84489215_F	chr17:84477999-84489215_F	lincRNA:chr17:84477999-84489215 forward strand	-0.50	0.033	1.000
chr5:139225387-139230837_F	chr5:139225387-139230837_F	lincRNA:chr5:139225387-139230837 forward strand	-0.50	0.030	0.998
chr3:143541356-143617738_R	chr3:143541356-143617738_R	lincRNA:chr3:143541356-143617738 reverse strand	-0.51	0.027	0.982
Tuba3a	NM_009446	ref Mus musculus tubulin, alpha 3A (Tuba3a), mRNA [NM_009446]	-0.51	0.000	0.110
Olfml2a	NM_172854	ref Mus musculus olfactomedin-like 2A (Olfml2a), mRNA [NM_172854]	-0.51	0.027	0.983
A530016L24Rik	NM_177039	ref Mus musculus RIKEN cDNA A530016L24 gene (A530016L24Rik), mRNA [NM_177039]	-0.51	0.007	0.661
LOC625953	XM_001480391	ref PREDICTED: Mus musculus similar to Chain A, Crystal Structure Of Mgsta1-1 In Complex With Gsh (LOC625953), mRNA [XM_001480391]	-0.51	0.014	0.812
Gm6828	XR_004809	ref PREDICTED: Mus musculus similar to Arp2 (LOC675630), misc RNA [XR_004809]	-0.51	0.017	0.854
chr3:41327493-41328368_F	chr3:41327493-41328368_F	lincRNA:chr3:41327493-41328368 forward strand	-0.51	0.028	0.983

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
D630002J18Rik	AK052598	gb Mus musculus 0 day neonate kidney cDNA, RIKEN full-length enriched library, clone:D630002J18 product:hypothetical protein, full insert sequence. [AK052598]	-0.51	0.044	1.000
Ivns1abp	NM_054102	ref Mus musculus influenza virus NS1A binding protein (Ivns1abp), transcript variant 2, mRNA [NM_054102]	-0.51	0.000	0.137
Cyp2b9	NM_010000	ref Mus musculus cytochrome P450, family 2, subfamily b, polypeptide 9 (Cyp2b9), mRNA [NM_010000]	-0.51	0.004	0.538
Zdhhc25	NM_027306	ref Mus musculus zinc finger, DHHC domain containing 25 (Zdhhc25), mRNA [NM_027306]	-0.52	0.044	1.000
Gstm7	NM_026672	ref Mus musculus glutathione S-transferase, mu 7 (Gstm7), mRNA [NM_026672]	-0.52	0.000	0.031
Mro	NM_027741	ref Mus musculus maestro (Mro), mRNA [NM_027741]	-0.52	0.040	1.000
Dct	NM_010024	ref Mus musculus dopachrome tautomerase (Dct), mRNA [NM_010024]	-0.53	0.016	0.848
ENSMUST00000084713	ENSMUST00000084713	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3V0H5] [ENSMUST00000084713]	-0.53	0.004	0.550
ENSMUST00000072628	ENSMUST00000072628	ens t-complex protein 11 Gene [Source:MGI (curated);Acc:MGI:98544] [ENSMUST00000072628]	-0.53	0.006	0.635
chr13:53100475-53113850_F	chr13:53100475-53113850_F	lincRNA:chr13:53100475-53113850 forward strand	-0.53	0.001	0.218
ENSMUST00000121189	ENSMUST00000121189	ens ubiquitin-conjugating enzyme E2C binding protein Gene [Source:MGI (curated);Acc:MGI:1917598] [ENSMUST00000121189]	-0.53	0.028	0.983
Gm4471	XR_033353	ref PREDICTED: Mus musculus hypothetical protein LOC100047227 (LOC100047227), misc RNA [XR_033353]	-0.53	0.021	0.914
chr17:73335854-73336316_F	chr17:73335854-73336316_F	lincRNA:chr17:73335854-73336316 forward strand	-0.53	0.035	1.000
Gm7435	XR_030988	ref PREDICTED: Mus musculus similar to XY body protein (LOC664980), misc RNA [XR_030988]	-0.54	0.029	0.989
chr2:67410825-67411407_F	chr2:67410825-67411407_F	lincRNA:chr2:67410825-67411407 forward strand	-0.54	0.014	0.825
ENSMUST00000086269	ENSMUST00000086269	ens NLR family, pyrin domain containing 4D Gene [Source:MGI Symbol;Acc:MGI:3056574] [ENSMUST00000086269]	-0.54	0.010	0.762
chr10:39383665-39442690_F	chr10:39383665-39442690_F	lincRNA:chr10:39383665-39442690 forward strand	-0.54	0.007	0.674
Rhd	NM_011270	ref Mus musculus Rh blood group, D antigen (Rhd), mRNA [NM_011270]	-0.54	0.000	0.131
chr5:137392195-137426421_F	chr5:137392195-137426421_F	lincRNA:chr5:137392195-137426421 forward strand	-0.54	0.021	0.914
chr16:7947710-7948066_R	chr16:7947710-7948066_R	lincRNA:chr16:7947710-7948066 reverse strand	-0.54	0.018	0.876
chr5:147538052-147546377_R	chr5:147538052-147546377_R	lincRNA:chr5:147538052-147546377 reverse strand	-0.54	0.027	0.983
9130404H23Rik	NM_028998	ref Mus musculus RIKEN cDNA 9130404H23 gene (9130404H23Rik), mRNA [NM_028998]	-0.54	0.026	0.975
Lpl	NM_008509	ref Mus musculus lipoprotein lipase (Lpl), mRNA [NM_008509]	-0.54	0.000	0.020
chr2:31001736-31006911_R	chr2:31001736-31006911_R	lincRNA:chr2:31001736-31006911 reverse strand	-0.54	0.039	1.000
Dct	NM_010024	ref Mus musculus dopachrome tautomerase (Dct), mRNA [NM_010024]	-0.54	0.011	0.772
chr1:42758928-42771337_F	chr1:42758928-42771337_F	lincRNA:chr1:42758928-42771337 forward strand	-0.54	0.041	1.000
ENSMUST00000106688	ENSMUST00000106688	ens glutathione S-transferase, mu 7 Gene [Source:MGI (curated);Acc:MGI:1915562] [ENSMUST00000106688]	-0.55	0.006	0.661

Online Supplemental Table IV: mG4H-Veh Only					
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
LOC100048725	XM_001481047	ref PREDICTED: Mus musculus hypothetical protein LOC100048725 (LOC100048725), mRNA [XM_001481047]	-0.55	0.008	0.694
AI835086	AK043585	gb Mus musculus 10 days neonate cortex cDNA, RIKEN full-length enriched library, clone:A830010I12 product:unclassifiable, full insert sequence. [AK043585]	-0.55	0.008	0.688
chrX:146897133-146900197_R	chrX:146897133-146900197_R	lincRNA:chrX:146897133-146900197 reverse strand	-0.55	0.048	1.000
Cacna1s	NM_001081023	ref Mus musculus calcium channel, voltage-dependent, L type, alpha 1S subunit (Cacna1s), transcript variant 2, mRNA [NM_001081023]	-0.55	0.001	0.263
Odf3l1	NM_198673	ref Mus musculus outer dense fiber of sperm tails 3-like 1 (Odf3l1), mRNA [NM_198673]	-0.55	0.020	0.897
Cacna1s	NM_001081023	ref Mus musculus calcium channel, voltage-dependent, L type, alpha 1S subunit (Cacna1s), transcript variant 2, mRNA [NM_001081023]	-0.55	0.003	0.508
ENSMUST00000114824	ENSMUST00000114824	ens family with sequence similarity 59, member B Gene [Source:MGI (curated);Acc:MGI:2685290] [ENSMUST00000114824]	-0.55	0.008	0.709
chr2:153163620-153170845_F	chr2:153163620-153170845_F	lincRNA:chr2:153163620-153170845 forward strand	-0.56	0.030	0.998
Grin1	NM_008169	ref Mus musculus glutamate receptor, ionotropic, NMDA1 (zeta 1) (Grin1), transcript variant 1, mRNA [NM_008169]	-0.56	0.044	1.000
chr5:106982442-107045717_R	chr5:106982442-107045717_R	lincRNA:chr5:106982442-107045717 reverse strand	-0.56	0.026	0.973
4933434C23Rik	AK017052	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933434C23 product:unclassifiable, full insert sequence. [AK017052]	-0.56	0.033	1.000
Nrg2	NM_001167891	ref Mus musculus neuregulin 2 (Nrg2), mRNA [NM_001167891]	-0.56	0.041	1.000
chr7:66574000-66577193_F	chr7:66574000-66577193_F	lincRNA:chr7:66574000-66577193 forward strand	-0.56	0.049	1.000
chr1:88405875-88418150_R	chr1:88405875-88418150_R	lincRNA:chr1:88405875-88418150 reverse strand	-0.56	0.035	1.000
Lad1	NM_133664	ref Mus musculus ladinin (Lad1), mRNA [NM_133664]	-0.56	0.003	0.456
Armc2	NM_001034858	ref Mus musculus armadillo repeat containing 2 (Armc2), mRNA [NM_001034858]	-0.56	0.000	0.144
Alox15	NM_009660	ref Mus musculus arachidonate 15-lipoxygenase (Alox15), mRNA [NM_009660]	-0.56	0.032	1.000
Mme11	NM_013783	ref Mus musculus membrane metallo-endopeptidase-like 1 (Mme11), mRNA [NM_013783]	-0.56	0.018	0.865
Tceal7	NM_001127169	ref Mus musculus transcription elongation factor A (SII)-like 7 (Tceal7), mRNA [NM_001127169]	-0.56	0.002	0.392
chr7:119735208-119822808_F	chr7:119735208-119822808_F	lincRNA:chr7:119735208-119822808 forward strand	-0.57	0.014	0.817
Ptgds	NM_008963	ref Mus musculus prostaglandin D2 synthase (brain) (Ptgds), mRNA [NM_008963]	-0.57	0.000	0.031
ENSMUST00000044774	ENSMUST00000044774	ens RIKEN cDNA 4930520K10 gene Gene [Source:MGI Symbol;Acc:MGI:1914837] [ENSMUST00000044774]	-0.57	0.015	0.833
chr13:66888650-66902600_R	chr13:66888650-66902600_R	lincRNA:chr13:66888650-66902600 reverse strand	-0.58	0.018	0.865
chr3:93151210-93151777_F	chr3:93151210-93151777_F	lincRNA:chr3:93151210-93151777 forward strand	-0.58	0.006	0.641
Adh1	NM_007409	ref Mus musculus alcohol dehydrogenase 1 (class I) (Adh1), mRNA [NM_007409]	-0.58	0.001	0.268
Ivns1abp	NM_001039511	ref Mus musculus influenza virus NS1A binding protein (Ivns1abp), transcript variant 1, mRNA [NM_001039511]	-0.58	0.000	0.031
chr9:118059348-118079494_F	chr9:118059348-118079494_F	lincRNA:chr9:118059348-118079494 forward strand	-0.58	0.050	1.000

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
5830405M20Rik	AK017899	gb Mus musculus adult male thymus cDNA, RIKEN full-length enriched library, clone:5830405M20 product:similar to RIBOSOMAL PROTEIN S6 (FRAGMENT) [Sus scrofa], full insert sequence. [AK017899]	-0.59	0.014	0.825
Fah	NM_010176	ref Mus musculus fumarylacetoacetate hydrolase (Fah), mRNA [NM_010176]	-0.59	0.000	0.020
Itln1	NM_010584	ref Mus musculus intelectin 1 (galactofuranose binding) (Itln1), mRNA [NM_010584]	-0.59	0.022	0.929
LOC100046729	XM_001476714	ref PREDICTED: Mus musculus similar to vomeronasal receptor V1RG10 (LOC100046729), mRNA [XM_001476714]	-0.59	0.005	0.589
Aadacl3	NM_001085503	ref Mus musculus arylacetamide deacetylase-like 3 (Aadacl3), mRNA [NM_001085503]	-0.59	0.026	0.971
2900079G21Rik	NR_033433	ref Mus musculus RIKEN cDNA 2900079G21 gene (2900079G21Rik), transcript variant 4, non-coding RNA [NR_033433]	-0.60	0.035	1.000
Gstm2	NM_008183	ref Mus musculus glutathione S-transferase, mu 2 (Gstm2), mRNA [NM_008183]	-0.60	0.000	0.018
Gm7247	ENSMUST00000089789	ens predicted gene 7247 Gene [Source:MGI Symbol;Acc:MGI:3643454] [ENSMUST00000089789]	-0.60	0.046	1.000
LOC100046614	XM_001476510	ref PREDICTED: Mus musculus hypothetical protein LOC100046614 (LOC100046614), mRNA [XM_001476510]	-0.60	0.042	1.000
Slc22a16	NM_027572	ref Mus musculus solute carrier family 22 (organic cation transporter), member 16 (Slc22a16), mRNA [NM_027572]	-0.60	0.022	0.921
chr15:61870759-61938796_F	chr15:61870759-61938796_F	lincRNA:chr15:61870759-61938796 forward strand	-0.61	0.022	0.922
Matn3	NM_010770	ref Mus musculus matrilin 3 (Matn3), mRNA [NM_010770]	-0.62	0.011	0.781
Gm5756	XM_488335	ref PREDICTED: Mus musculus predicted gene, EG436197 (EG436197), mRNA [XM_488335]	-0.62	0.039	1.000
chr5:22801058-22939737_F	chr5:22801058-22939737_F	lincRNA:chr5:22801058-22939737 forward strand	-0.63	0.006	0.631
chr7:3309825-3331151_R	chr7:3309825-3331151_R	lincRNA:chr7:3309825-3331151 reverse strand	-0.63	0.048	1.000
chr19:4994325-4994537_R	chr19:4994325-4994537_R	lincRNA:chr19:4994325-4994537 reverse strand	-0.64	0.015	0.838
Aqp8	NM_007474	ref Mus musculus aquaporin 8 (Aqp8), transcript variant 1, mRNA [NM_007474]	-0.64	0.012	0.786
chr12:110026982-110027450_F	chr12:110026982-110027450_F	lincRNA:chr12:110026982-110027450 forward strand	-0.64	0.049	1.000
Olf1162	NM_001011835	ref Mus musculus olfactory receptor 1162 (Olf1162), mRNA [NM_001011835]	-0.64	0.012	0.786
chr11:68200716-68214458_F	chr11:68200716-68214458_F	lincRNA:chr11:68200716-68214458 forward strand	-0.65	0.005	0.594
Gstm2	NM_008183	ref Mus musculus glutathione S-transferase, mu 2 (Gstm2), mRNA [NM_008183]	-0.65	0.000	0.044
ENSMUST00000103501	ENSMUST00000103501	gb Mouse Ig rearranged gamma-chain mRNA, clone AN11g. [M19903]	-0.65	0.035	1.000
Olf1020	NM_146580	ref Mus musculus olfactory receptor 1020 (Olf1020), mRNA [NM_146580]	-0.65	0.015	0.832
4921521D15Rik	AK014936	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4921521D15 product:unclassifiable, full insert sequence. [AK014936]	-0.66	0.015	0.831
Bsx	NM_178245	ref Mus musculus brain specific homeobox (Bsx), mRNA [NM_178245]	-0.67	0.035	1.000
chr13:81773237-81783062_F	chr13:81773237-81783062_F	lincRNA:chr13:81773237-81783062 forward strand	-0.67	0.028	0.984

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
4921506M07Rik	NM_001037743	ref Mus musculus RIKEN cDNA 4921506M07 gene (4921506M07Rik), mRNA [NM_001037743]	-0.67	0.036	1.000
1700072E05Rik	NM_028554	ref Mus musculus RIKEN cDNA 1700072E05 gene (1700072E05Rik), mRNA [NM_028554]	-0.70	0.012	0.786
chr10:27466235-27529430_R	chr10:27466235-27529430_R	lincRNA:chr10:27466235-27529430 reverse strand	-0.71	0.017	0.854
Ppp1r3g	NM_029628	ref Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 3G (Ppp1r3g), mRNA [NM_029628]	-0.71	0.009	0.720
4933435F18Rik	AK077986	gb Mus musculus 13 days embryo male testis cDNA, RIKEN full-length enriched library, clone:6030496F17 product:unclassifiable, full insert sequence. [AK077986]	-0.72	0.041	1.000
chr10:107854124-107888749_F	chr10:107854124-107888749_F	lincRNA:chr10:107854124-107888749 forward strand	-0.73	0.049	1.000
chr7:6302922-6306477_F	chr7:6302922-6306477_F	lincRNA:chr7:6302922-6306477 forward strand	-0.73	0.008	0.691
Olfr1110	NM_146769	ref Mus musculus olfactory receptor 1110 (Olfr1110), mRNA [NM_146769]	-0.75	0.012	0.786
Gnmt	NM_010321	ref Mus musculus glycine N-methyltransferase (Gnmt), mRNA [NM_010321]	-0.75	0.000	0.022
Gm2374	XM_001473349	ref PREDICTED: Mus musculus hypothetical protein LOC100039696 (LOC100039696), mRNA [XM_001473349]	-0.75	0.006	0.624
chr7:69075022-69127242_R	chr7:69075022-69127242_R	lincRNA:chr7:69075022-69127242 reverse strand	-0.76	0.049	1.000
Fam23a	NM_001081310	ref Mus musculus family with sequence similarity 23, member A (Fam23a), mRNA [NM_001081310]	-0.76	0.039	1.000
chr13:79076865-79077207_F	chr13:79076865-79077207_F	lincRNA:chr13:79076865-79077207 forward strand	-0.78	0.044	1.000
Gm4495	XM_001480146	ref PREDICTED: Mus musculus hypothetical protein LOC100043520 (LOC100043520), mRNA [XM_001480146]	-0.80	0.004	0.516
Aqp8	NM_007474	ref Mus musculus aquaporin 8 (Aqp8), transcript variant 1, mRNA [NM_007474]	-0.82	0.002	0.409
LOC100041867	XM_001477142	ref PREDICTED: Mus musculus hypothetical protein LOC100041867 (LOC100041867), mRNA [XM_001477142]	-0.82	0.029	0.986
Aox4	NM_023631	ref Mus musculus aldehyde oxidase 4 (Aox4), mRNA [NM_023631]	-0.82	0.040	1.000
XIST	XIST	lincRNA:chrX:100655711-100678572 reverse strand	-0.83	0.046	1.000
chr13:38731361-38735655_F	chr13:38731361-38735655_F	lincRNA:chr13:38731361-38735655 forward strand	-0.84	0.039	1.000
A930038B10Rik	AK044736	gb Mus musculus adult retina cDNA, RIKEN full-length enriched library, clone:A930038B10 product:hypothetical protein, full insert sequence. [AK044736]	-0.84	0.002	0.347
chr7:71107125-71112622_F	chr7:71107125-71112622_F	lincRNA:chr7:71107125-71112622 forward strand	-0.84	0.008	0.710
Olfr135	NM_146332	ref Mus musculus olfactory receptor 135 (Olfr135), mRNA [NM_146332]	-0.85	0.017	0.854
chr13:99465269-99472596_F	chr13:99465269-99472596_F	lincRNA:chr13:99465269-99472596 forward strand	-0.87	0.039	1.000
Gm2419	XM_001473482	ref PREDICTED: Mus musculus hypothetical protein LOC100039772 (LOC100039772), mRNA [XM_001473482]	-0.87	0.004	0.516
4930434B07Rik	AK015307	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930434B07 product:unclassifiable, full insert sequence. [AK015307]	-0.88	0.040	1.000
Slc2a1	NM_011400	ref Mus musculus solute carrier family 2 (facilitated glucose transporter), member 1 (Slc2a1), mRNA [NM_011400]	-0.88	0.000	0.009

Online Supplemental Table IV: mG4H-Veh Only

Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value
chr8:44232164-44266991_F	chr8:44232164-44266991_F	lincRNA:chr8:44232164-44266991 forward strand	-0.90	0.029	0.986
chr10:87541696-87547421_F	chr10:87541696-87547421_F	lincRNA:chr10:87541696-87547421 forward strand	-0.93	0.025	0.966
Sprr2h	NM_011474	ref Mus musculus small proline-rich protein 2H (Sprr2h), mRNA [NM_011474]	-0.97	0.018	0.873
LOC100048471	XM_001480317	ref PREDICTED: Mus musculus similar to immunoreceptor Ly49i7 (LOC100048471), mRNA [XM_001480317]	-1.01	0.041	1.000
chr8:49858771-49859010_R	chr8:49858771-49859010_R	lincRNA:chr8:49858771-49859010 reverse strand	-1.01	0.043	1.000
Ssxb6	XM_001474364	ref PREDICTED: Mus musculus synovial sarcoma, X member B, breakpoint 6 (Ssxb6), mRNA [XM_001474364]	-1.01	0.031	0.998
Ncam2	NM_010954	ref Mus musculus neural cell adhesion molecule 2 (Ncam2), transcript variant 2, mRNA [NM_010954]	-1.04	0.020	0.895
ENSMUST00000032909	ENSMUST00000032909	ens phosphodiesterase 3B, cGMP-inhibited Gene [Source:MGI (curated);Acc:MGI:1333863] [ENSMUST00000032909]	-1.05	0.034	1.000
chr14:14688472-14747272_R	chr14:14688472-14747272_R	lincRNA:chr14:14688472-14747272 reverse strand	-1.10	0.048	1.000
Itgb1bp3	NM_027120	ref Mus musculus integrin beta 1 binding protein 3 (Itgb1bp3), mRNA [NM_027120]	-1.12	0.000	0.132
LOC100047123	XM_001477443	ref PREDICTED: Mus musculus hypothetical protein LOC100047123 (LOC100047123), mRNA [XM_001477443]	-1.18	0.000	0.012
LOC100046778	XM_001476791	ref PREDICTED: Mus musculus hypothetical protein LOC100046778 (LOC100046778), mRNA [XM_001476791]	-1.18	0.010	0.762
Ccdc129	NM_001081665	ref Mus musculus coiled-coil domain containing 129 (Ccdc129), mRNA [NM_001081665]	-1.35	0.017	0.858
Olfr665	NM_146814	ref Mus musculus olfactory receptor 665 (Olfr665), mRNA [NM_146814]	-1.46	0.039	1.000
chr3:45163252-45179177_F	chr3:45163252-45179177_F	lincRNA:chr3:45163252-45179177 forward strand	-1.56	0.027	0.983
chr12:86421771-86422222_F	chr12:86421771-86422222_F	lincRNA:chr12:86421771-86422222 forward strand	-1.96	0.017	0.858

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr10:39659425-39674200_F	chr10:39659425-39674200_F	lincRNA:chr10:39659425-39674200 forward strand	2.03	0.026	0.470
ENSMUST00000070587	ENSMUST00000070587	ens RIKEN cDNA 5730596B20 gene Gene [Source:MGI Symbol;Acc:MGI:1924830] [ENSMUST00000070587]	1.58	0.017	0.429
Mup20	NM_001012323	ref Mus musculus major urinary protein 20 (Mup20), mRNA [NM_001012323]	1.54	0.029	0.477
LOC639450	ENSMUST00000104995	ens olfactory receptor 364, pseudogene 1 Pseudogene [Source:MGI (curated);Acc:MGI:3030198] [ENSMUST00000104995]	1.29	0.024	0.459
chrX:123306246-123307974_F	chrX:123306246-123307974_F	lincRNA:chrX:123306246-123307974 forward strand	1.22	0.046	0.513
ENSMUST00000105501	ENSMUST00000105501	ens forkhead box O3 Gene [Source:MGI (curated);Acc:MGI:1890081] [ENSMUST00000105501]	1.21	0.036	0.495
Olfr804	NM_001011821	ref Mus musculus olfactory receptor 804 (Olfr804), mRNA [NM_001011821]	1.20	0.033	0.490
XM_001474492	XM_001474492	ref PREDICTED: Mus musculus hypothetical protein LOC100040207 (LOC100040207), mRNA [XM_001474492]	1.16	0.022	0.450
chr6:12062275-12075800_F	chr6:12062275-12075800_F	lincRNA:chr6:12062275-12075800 forward strand	1.13	0.017	0.429
chr3:40929393-40929706_F	chr3:40929393-40929706_F	lincRNA:chr3:40929393-40929706 forward strand	1.13	0.011	0.407
chr1:87412059-87419385_F	chr1:87412059-87419385_F	lincRNA:chr1:87412059-87419385 forward strand	1.13	0.032	0.485
Ccdc116	NM_029779	ref Mus musculus coiled-coil domain containing 116 (Ccdc116), transcript variant 2, mRNA [NM_029779]	1.10	0.018	0.435
Uox	NM_009474	ref Mus musculus urate oxidase (Uox), mRNA [NM_009474]	1.07	0.020	0.443
chr11:96111499-96126224_R	chr11:96111499-96126224_R	lincRNA:chr11:96111499-96126224 reverse strand	1.05	0.037	0.498
LOC641136	XM_918475	ref PREDICTED: Mus musculus hypothetical LOC641136 (LOC641136), mRNA [XM_918475]	1.04	0.040	0.501
chr17:21785442-21801542_R	chr17:21785442-21801542_R	lincRNA:chr17:21785442-21801542 reverse strand	1.03	0.028	0.476
Celf6	NM_175235	ref Mus musculus CUGBP, Elav-like family member 6 (Celf6), mRNA [NM_175235]	1.02	0.017	0.429
Mmp8	NM_008611	ref Mus musculus matrix metalloproteinase 8 (Mmp8), mRNA [NM_008611]	1.01	0.009	0.400
Gm4379	XM_001480003	ref PREDICTED: Mus musculus similar to reproductive homeobox on X chromosome 8 (LOC100043350), mRNA [XM_001480003]	1.00	0.032	0.483
LOC100045783	XM_001474931	ref PREDICTED: Mus musculus similar to reproductive homeobox on X chromosome 8 (LOC100045783), mRNA [XM_001474931]	1.00	0.021	0.448
Crh	NM_205769	ref Mus musculus corticotropin releasing hormone (Crh), mRNA [NM_205769]	1.00	0.007	0.379
Olfr570	NM_147110	ref Mus musculus olfactory receptor 570 (Olfr570), mRNA [NM_147110]	0.99	0.027	0.471
chr5:113749473-113750726_R	chr5:113749473-113750726_R	lincRNA:chr5:113749473-113750726 reverse strand	0.97	0.005	0.343
Obox5	NM_145709	ref Mus musculus oocyte specific homeobox 5 (Obox5), mRNA [NM_145709]	0.97	0.035	0.495
chr10:116814196-116920696_F	chr10:116814196-116920696_F	lincRNA:chr10:116814196-116920696 forward strand	0.96	0.029	0.477
Dlx2	NM_010054	ref Mus musculus distal-less homeobox 2 (Dlx2), mRNA [NM_010054]	0.94	0.014	0.418

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
4933417A18Rik	NM_025750	ref Mus musculus RIKEN cDNA 4933417A18 gene (4933417A18Rik), mRNA [NM_025750]	0.94	0.005	0.349
chr13:15947521-15999246_F	chr13:15947521-15999246_F	lincRNA:chr13:15947521-15999246 forward strand	0.92	0.023	0.454
chr16:40070103-40073270_F	chr16:40070103-40073270_F	lincRNA:chr16:40070103-40073270 forward strand	0.92	0.010	0.401
chr1:42689799-42749799_F	chr1:42689799-42749799_F	lincRNA:chr1:42689799-42749799 forward strand	0.90	0.011	0.406
LOC100048326	XR_034501	ref PREDICTED: Mus musculus similar to Acidic ribosomal phosphoprotein P0 (LOC100048326), misc RNA [XR_034501]	0.89	0.011	0.407
Olfr1360	NM_146543	ref Mus musculus olfactory receptor 1360 (Olfr1360), mRNA [NM_146543]	0.88	0.014	0.412
Fpr-rs4	NM_008041	ref Mus musculus formyl peptide receptor, related sequence 4 (Fpr-rs4), mRNA [NM_008041]	0.88	0.036	0.495
Sds	NM_145565	ref Mus musculus serine dehydratase (Sds), mRNA [NM_145565]	0.88	0.015	0.418
Olfr710	NM_146601	ref Mus musculus olfactory receptor 710 (Olfr710), mRNA [NM_146601]	0.87	0.012	0.412
Pabpc1l2a-ps	XM_141989	ref PREDICTED: Mus musculus predicted gene, EG245545 (EG245545), mRNA [XM_141989]	0.87	0.004	0.338
chr10:94134000-94149200_F	chr10:94134000-94149200_F	lincRNA:chr10:94134000-94149200 forward strand	0.87	0.042	0.507
Olfr247	NM_146269	ref Mus musculus olfactory receptor 247 (Olfr247), mRNA [NM_146269]	0.86	0.020	0.447
chr10:96098058-96098623_F	chr10:96098058-96098623_F	lincRNA:chr10:96098058-96098623 forward strand	0.86	0.034	0.491
chr16:21305700-21306107_F	chr16:21305700-21306107_F	lincRNA:chr16:21305700-21306107 forward strand	0.86	0.002	0.281
chr4:40194362-40202712_F	chr4:40194362-40202712_F	lincRNA:chr4:40194362-40202712 forward strand	0.86	0.016	0.423
Dnajc5	ENSMUST00000108796	ens Dnaj (Hsp40) homolog, subfamily C, member 5 Gene [Source:MGI (curated);Acc:MGI:892995] [ENSMUST00000108796]	0.85	0.003	0.305
chr6:47915489-47916089_F	chr6:47915489-47916089_F	lincRNA:chr6:47915489-47916089 forward strand	0.85	0.007	0.378
Spint3	NM_001177401	ref Mus musculus serine peptidase inhibitor, Kunitz type, 3 (Spint3), mRNA [NM_001177401]	0.85	0.030	0.477
Neb	NM_010889	ref Mus musculus nebulin (Neb), mRNA [NM_010889]	0.85	0.018	0.435
Gm8223	XM_985275	ref PREDICTED: Mus musculus predicted gene, EG666666 (EG666666), mRNA [XM_985275]	0.84	0.018	0.435
Stx3	NM_001025307	ref Mus musculus syntaxin 3 (Stx3), transcript variant B, mRNA [NM_001025307]	0.84	0.008	0.391
A930005G22Rik	AK044281	gb Mus musculus adult retina cDNA, RIKEN full-length enriched library, clone:A930005G22 product:unclassifiable, full insert sequence. [AK044281]	0.84	0.005	0.341
Gm3296	XM_001476263	ref PREDICTED: Mus musculus hypothetical protein LOC100041371 (LOC100041371), mRNA [XM_001476263]	0.84	0.049	0.519
Gm3840	XM_001478181	ref PREDICTED: Mus musculus similar to dentin sialophosphoprotein preproprotein (LOC100042430), mRNA [XM_001478181]	0.83	0.015	0.419
chr12:111287772-111333890_F	chr12:111287772-111333890_F	lincRNA:chr12:111287772-111333890 forward strand	0.83	0.004	0.325
Ptk6	NM_009184	ref Mus musculus PTK6 protein tyrosine kinase 6 (Ptk6), mRNA [NM_009184]	0.83	0.022	0.453

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Slc9a10	NM_198106	ref Mus musculus solute carrier family 9, member 10 (Slc9a10), mRNA [NM_198106]	0.83	0.013	0.412
LOC100042435	XM_001477675	ref PREDICTED: Mus musculus similar to Sty2 protein (LOC100042435), mRNA [XM_001477675]	0.82	0.037	0.497
Gm2478	XM_001473735	ref PREDICTED: Mus musculus hypothetical protein LOC100039894 (LOC100039894), mRNA [XM_001473735]	0.82	0.033	0.487
ENSMUST00000064809	ENSMUST00000064809	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q8BYT7] [ENSMUST00000064809]	0.82	0.048	0.518
chr9:106170918-106177894_R	chr9:106170918-106177894_R	lincRNA:chr9:106170918-106177894 reverse strand	0.82	0.003	0.290
ENSMUST00000065124	ENSMUST00000065124	ens RIKEN cDNA 6530403G13 gene Gene [Source:MGI Symbol;Acc:MGI:1923477] [ENSMUST00000065124]	0.82	0.028	0.474
ENSMUST00000107481	ENSMUST00000107481	ref PREDICTED: Mus musculus similar to Predicted gene, OTTMUSG00000007485 (LOC100039019), misc RNA [XR_030567]	0.81	0.016	0.425
chr12:21535610-21560351_F	chr12:21535610-21560351_F	lincRNA:chr12:21535610-21560351 forward strand	0.81	0.044	0.512
chr5:100845342-100869667_F	chr5:100845342-100869667_F	lincRNA:chr5:100845342-100869667 forward strand	0.81	0.006	0.369
chr2:153163620-153170845_F	chr2:153163620-153170845_F	lincRNA:chr2:153163620-153170845 forward strand	0.81	0.033	0.490
Igfbp2	NM_008342	ref Mus musculus insulin-like growth factor binding protein 2 (Igfbp2), mRNA [NM_008342]	0.81	0.037	0.496
Pnpla2	NM_001163689	ref Mus musculus patatin-like phospholipase domain containing 2 (Pnpla2), transcript variant 1, mRNA [NM_001163689]	0.81	0.007	0.383
Gm7762	XM_979107	ref PREDICTED: Mus musculus RIKEN cDNA C330022B21 gene (LOC665738), mRNA [XM_979107]	0.81	0.035	0.495
chr4:128727331-128735227_R	chr4:128727331-128735227_R	lincRNA:chr4:128727331-128735227 reverse strand	0.80	0.001	0.197
Apoc3	NM_023114	ref Mus musculus apolipoprotein C-III (Apoc3), mRNA [NM_023114]	0.80	0.049	0.519
chr16:64796849-64843249_R	chr16:64796849-64843249_R	lincRNA:chr16:64796849-64843249 reverse strand	0.80	0.040	0.504
chr3:37797734-37891650_F	chr3:37797734-37891650_F	lincRNA:chr3:37797734-37891650 forward strand	0.80	0.031	0.482
Atp6v1c2	NM_133699	ref Mus musculus ATPase, H+ transporting, lysosomal V1 subunit C2 (Atp6v1c2), transcript variant 2, mRNA [NM_133699]	0.79	0.016	0.426
Mctp2	NM_001024703	ref Mus musculus multiple C2 domains, transmembrane 2 (Mctp2), mRNA [NM_001024703]	0.79	0.012	0.412
LOC100047902	XM_001479095	ref PREDICTED: Mus musculus similar to RIKEN cDNA 1700022C21 gene (LOC100047902), mRNA [XM_001479095]	0.79	0.022	0.452
ENSMUST00000103376	ENSMUST00000103376	gb M.musculus mRNA for 11E7-1 IgM light chain variable region. [X05391]	0.79	0.003	0.292
LOC100047816	XM_001478921	ref PREDICTED: Mus musculus similar to Dnase1l2 protein (LOC100047816), mRNA [XM_001478921]	0.79	0.032	0.483
Klra17	NM_133203	ref Mus musculus killer cell lectin-like receptor, subfamily A, member 17 (Klra17), mRNA [NM_133203]	0.79	0.016	0.426
chr11:69193873-69194307_F	chr11:69193873-69194307_F	lincRNA:chr11:69193873-69194307 forward strand	0.78	0.025	0.467
Gm7147	XM_909803	ref PREDICTED: Mus musculus similar to novel androgen binding protein (Abp) family member (LOC634929), mRNA [XM_909803]	0.78	0.023	0.453

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr2:150008075-150101675_R	chr2:150008075-150101675_R	lincRNA:chr2:150008075-150101675 reverse strand	0.78	0.004	0.322
Gm4489	NR_027637	ref Mus musculus predicted gene 4489 (Gm4489), non-coding RNA [NR_027637]	0.78	0.011	0.407
1500012F01Rik	NM_001081005	ref Mus musculus RIKEN cDNA 1500012F01 gene (1500012F01Rik), mRNA [NM_001081005]	0.78	0.027	0.472
Cts7	NM_019539	ref Mus musculus cathepsin 7 (Cts7), mRNA [NM_019539]	0.78	0.020	0.441
chr9:32416123-32416560_R	chr9:32416123-32416560_R	lincRNA:chr9:32416123-32416560 reverse strand	0.77	0.042	0.507
chr12:52944867-52971992_F	chr12:52944867-52971992_F	lincRNA:chr12:52944867-52971992 forward strand	0.77	0.033	0.490
B230207O21Rik	AK140083	gb Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enriched library, clone:B230207O21 product:hypothetical protein, full insert sequence. [AK140083]	0.77	0.025	0.464
Olfr1023	NM_146587	ref Mus musculus olfactory receptor 1023 (Olfr1023), mRNA [NM_146587]	0.77	0.024	0.460
Hpd	NM_008277	ref Mus musculus 4-hydroxyphenylpyruvic acid dioxygenase (Hpd), mRNA [NM_008277]	0.77	0.001	0.234
ENSMUST00000055305	ENSMUST00000055305	ens Mszf58 Fragment [Source:UniProtKB/TrEMBL;Acc:O88242] [ENSMUST00000055305]	0.76	0.049	0.519
chr1:85310067-85323941_R	chr1:85310067-85323941_R	lincRNA:chr1:85310067-85323941 reverse strand	0.76	0.033	0.490
Dyrk2	NM_001014390	ref Mus musculus dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2 (Dyrk2), mRNA [NM_001014390]	0.76	0.046	0.513
XM_001473879	XM_001473879	ref PREDICTED: Mus musculus hypothetical protein LOC100039974 (LOC100039974), mRNA [XM_001473879]	0.76	0.014	0.416
chr9:35112668-35113346_F	chr9:35112668-35113346_F	lincRNA:chr9:35112668-35113346 forward strand	0.76	0.029	0.477
Olfr749	NM_020288	ref Mus musculus olfactory receptor 749 (Olfr749), mRNA [NM_020288]	0.75	0.016	0.426
Olfr1061	NM_207134	ref Mus musculus olfactory receptor 1061 (Olfr1061), mRNA [NM_207134]	0.75	0.005	0.346
Prg4	NM_021400	ref Mus musculus proteoglycan 4 (megakaryocyte stimulating factor, articular superficial zone protein) (Prg4), transcript variant 1, mRNA [NM_021400]	0.75	0.003	0.306
chr3:70581406-70614856_F	chr3:70581406-70614856_F	lincRNA:chr3:70581406-70614856 forward strand	0.75	0.040	0.502
Ctdsp2	NM_001113470	ref Mus musculus CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2 (Ctdsp2), transcript variant a, mRNA [NM_001113470]	0.75	0.019	0.439
chr10:66574421-66575488_F	chr10:66574421-66575488_F	lincRNA:chr10:66574421-66575488 forward strand	0.75	0.047	0.516
Htr4	NM_008313	ref Mus musculus 5 hydroxytryptamine (serotonin) receptor 4 (Htr4), mRNA [NM_008313]	0.75	0.004	0.336
chr10:96103732-96103867_F	chr10:96103732-96103867_F	lincRNA:chr10:96103732-96103867 forward strand	0.74	0.026	0.470
Pramel4	NM_001001319	ref Mus musculus preferentially expressed antigen in melanoma like 4 (Pramel4), mRNA [NM_001001319]	0.74	0.000	0.117
Ppp2ca	ENSMUST00000020608	ens protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform Gene [Source:MGI (curated);Acc:MGI:1321159] [ENSMUST00000020608]	0.73	0.034	0.493
Nxph1	NM_008751	ref Mus musculus neurexophilin 1 (Nxph1), mRNA [NM_008751]	0.73	0.037	0.497

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
1700109G14Rik	NR_033788	ref Mus musculus RIKEN cDNA 1700109G14 gene (1700109G14Rik), non-coding RNA [NR_033788]	0.73	0.048	0.518
Htr1a	NM_008308	ref Mus musculus 5-hydroxytryptamine (serotonin) receptor 1A (Htr1a), mRNA [NM_008308]	0.72	0.017	0.433
Atxn7l1	NM_001033436	ref Mus musculus ataxin 7-like 1 (Atxn7l1), transcript variant 1, mRNA [NM_001033436]	0.72	0.023	0.456
D14Ertd725e	BG069320	gb H3075B02-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3075B02 3', mRNA sequence [BG069320]	0.72	0.047	0.515
chr14:65874977-65880202_R	chr14:65874977-65880202_R	lincRNA:chr14:65874977-65880202 reverse strand	0.72	0.039	0.499
ENSMUST00000110481	ENSMUST00000110481	ens zinc finger protein 192 Gene [Source:MGI (curated);Acc:MGI:1913815] [ENSMUST00000110481]	0.72	0.018	0.437
Olfr1198	NM_207567	ref Mus musculus olfactory receptor 1198 (Olfr1198), mRNA [NM_207567]	0.72	0.037	0.497
chr6:121036119-121036703_R	chr6:121036119-121036703_R	lincRNA:chr6:121036119-121036703 reverse strand	0.72	0.023	0.454
Gm2884	XM_001472565	ref PREDICTED: Mus musculus hypothetical protein LOC100044554 (LOC100044554), mRNA [XM_001472565]	0.71	0.039	0.501
chr2:11454222-11456321_R	chr2:11454222-11456321_R	lincRNA:chr2:11454222-11456321 reverse strand	0.71	0.018	0.437
4930579D07Rik	BG067633	gb H3056E06-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3056E06 3', mRNA sequence [BG067633]	0.71	0.008	0.385
ENSMUST00000025658	ENSMUST00000025658	ens transmembrane channel-like gene family 1 Gene [Source:MGI Symbol;Acc:MGI:2151016] [ENSMUST00000025658]	0.71	0.001	0.197
Krtap17-1	NM_001099774	ref Mus musculus keratin associated protein 17-1 (Krtap17-1), mRNA [NM_001099774]	0.71	0.028	0.474
chr2:83540813-83541273_R	chr2:83540813-83541273_R	lincRNA:chr2:83540813-83541273 reverse strand	0.71	0.004	0.335
chr10:3229404-3229856_F	chr10:3229404-3229856_F	lincRNA:chr10:3229404-3229856 forward strand	0.71	0.025	0.463
Gm9494	XM_001479010	ref PREDICTED: Mus musculus hypothetical LOC670576 (LOC670576), mRNA [XM_001479010]	0.71	0.040	0.501
Ska2l-ps	XM_890112	ref PREDICTED: Mus musculus predicted gene, EG625534, transcript variant 2 (EG625534), mRNA [XM_890112]	0.71	0.017	0.433
chr13:83867711-83878140_F	chr13:83867711-83878140_F	lincRNA:chr13:83867711-83878140 forward strand	0.71	0.005	0.353
Gm12408	XM_001474903	ref PREDICTED: Mus musculus hypothetical protein LOC100040557 (LOC100040557), mRNA [XM_001474903]	0.71	0.025	0.463
BC037703	NM_172295	ref Mus musculus cDNA sequence BC037703 (BC037703), mRNA [NM_172295]	0.71	0.012	0.408
chr6:86477309-86537554_F	chr6:86477309-86537554_F	lincRNA:chr6:86477309-86537554 forward strand	0.70	0.021	0.450
Vgll3	NM_028572	ref Mus musculus vestigial like 3 (Drosophila) (Vgll3), mRNA [NM_028572]	0.70	0.043	0.511
chr13:94194458-94195068_R	chr13:94194458-94195068_R	lincRNA:chr13:94194458-94195068 reverse strand	0.70	0.023	0.455
Apold1	NM_001109914	ref Mus musculus apolipoprotein L domain containing 1 (Apold1), mRNA [NM_001109914]	0.70	0.039	0.500
chr15:59619971-59626514_R	chr15:59619971-59626514_R	lincRNA:chr15:59619971-59626514 reverse strand	0.70	0.029	0.477

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr9:78107225-78118850_R	chr9:78107225-78118850_R	lincRNA:chr9:78107225-78118850 reverse strand	0.70	0.035	0.494
LOC674590	XM_975770	ref PREDICTED: Mus musculus similar to budding uninhibited by benzimidazoles 3 homolog (LOC674590), mRNA [XM_975770]	0.70	0.009	0.399
chr13:28477490-28985604_R	chr13:28477490-28985604_R	lincRNA:chr13:28477490-28985604 reverse strand	0.70	0.027	0.472
chr1:92546371-92551596_R	chr1:92546371-92551596_R	lincRNA:chr1:92546371-92551596 reverse strand	0.70	0.003	0.290
chr11:95644899-95658549_R	chr11:95644899-95658549_R	lincRNA:chr11:95644899-95658549 reverse strand	0.70	0.009	0.398
A530076I17Rik	AK080140	gb Mus musculus adult male aorta and vein cDNA, RIKEN full-length enriched library, clone:A530068K05 product:unclassifiable, full insert sequence. [AK080140]	0.69	0.027	0.471
Slco1b2	NM_020495	ref Mus musculus solute carrier organic anion transporter family, member 1b2 (Slco1b2), transcript variant 1, mRNA [NM_020495]	0.69	0.011	0.406
Cpvl	NM_027749	ref Mus musculus carboxypeptidase, vitellogenic-like (Cpvl), mRNA [NM_027749]	0.69	0.010	0.401
LOC100045154	XM_001473762	ref PREDICTED: Mus musculus similar to submandibular androgen-repressed protein (LOC100045154), mRNA [XM_001473762]	0.69	0.005	0.343
Heph	NM_181273	ref Mus musculus hephaestin (Heph), transcript variant 2, mRNA [NM_181273]	0.69	0.010	0.403
Vmn1r210	NM_134235	ref Mus musculus vomeronasal 1 receptor 210 (Vmn1r210), mRNA [NM_134235]	0.69	0.047	0.514
Gjb3	NM_001160012	ref Mus musculus gap junction protein, beta 3 (Gjb3), transcript variant 1, mRNA [NM_001160012]	0.69	0.021	0.449
Il22ra2	NM_178258	ref Mus musculus interleukin 22 receptor, alpha 2 (Il22ra2), mRNA [NM_178258]	0.69	0.042	0.508
chr3:95445094-95445564_R	chr3:95445094-95445564_R	lincRNA:chr3:95445094-95445564 reverse strand	0.68	0.018	0.435
Defa3	NM_007850	ref Mus musculus defensin, alpha, 3 (Defa3), mRNA [NM_007850]	0.68	0.046	0.513
Hdx	NM_001080549	ref Mus musculus highly divergent homeobox (Hdx), mRNA [NM_001080549]	0.68	0.008	0.392
Myliip	NM_153789	ref Mus musculus myosin regulatory light chain interacting protein (Myliip), transcript variant 1, mRNA [NM_153789]	0.68	0.045	0.513
chr2:170029045-170034220_R	chr2:170029045-170034220_R	lincRNA:chr2:170029045-170034220 reverse strand	0.68	0.012	0.408
ENSMUST00000024796	ENSMUST00000024796	ens predicted gene 6313 Gene [Source:MGI Symbol;Acc:MGI:3644722] [ENSMUST00000024796]	0.68	0.043	0.511
Sult2a1	NM_001111296	ref Mus musculus sulfotransferase family 2A, dehydroepiandrosterone (DHEA)-preferring, member 1 (Sult2a1), mRNA [NM_001111296]	0.68	0.003	0.281
chr12:110003268-110030953_F	chr12:110003268-110030953_F	lincRNA:chr12:110003268-110030953 forward strand	0.68	0.046	0.513
Gm13078	NM_001085412	ref Mus musculus predicted gene 13078 (Gm13078), mRNA [NM_001085412]	0.68	0.036	0.495
LOC627800	AK053604	gb Mus musculus 0 day neonate eyeball cDNA, RIKEN full-length enriched library, clone:E130113I11 product:unclassifiable, full insert sequence. [AK053604]	0.68	0.008	0.390
chr14:25923295-25923893_F	chr14:25923295-25923893_F	lincRNA:chr14:25923295-25923893 forward strand	0.67	0.041	0.504
Hgf	NM_010427	ref Mus musculus hepatocyte growth factor (Hgf), mRNA [NM_010427]	0.67	0.036	0.495

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr1:141824450-141835125_F	chr1:141824450-141835125_F	lincRNA:chr1:141824450-141835125 forward strand	0.67	0.003	0.299
1700001N15Rik	XM_001474474	ref PREDICTED: Mus musculus RIKEN cDNA 1700001N15 gene (1700001N15Rik), mRNA [XM_001474474]	0.67	0.012	0.412
LOC100048337	XM_001480371	ref PREDICTED: Mus musculus hypothetical protein LOC100048337 (LOC100048337), mRNA [XM_001480371]	0.67	0.039	0.501
chr2:151992806-152025456_F	chr2:151992806-152025456_F	lincRNA:chr2:151992806-152025456 forward strand	0.67	0.037	0.496
Tcp11l2	NM_146008	ref Mus musculus t-complex 11 (mouse) like 2 (Tcp11l2), mRNA [NM_146008]	0.67	0.016	0.427
Pcbp2	NM_001103165	ref Mus musculus poly(rC) binding protein 2 (Pcbp2), transcript variant 1, mRNA [NM_001103165]	0.67	0.027	0.472
ENSMUST00000099414	ENSMUST00000099414	ens RIKEN cDNA C330022B21 gene Gene [Source:MGI Symbol;Acc:MGI:1925949] [ENSMUST00000099417]	0.67	0.039	0.501
chr19:59498190-59531390_R	chr19:59498190-59531390_R	lincRNA:chr19:59498190-59531390 reverse strand	0.66	0.007	0.382
Gsdmc3	NM_183194	ref Mus musculus gasdermin C3 (Gsdmc3), mRNA [NM_183194]	0.66	0.015	0.423
Prdm6	NM_001033281	ref Mus musculus PR domain containing 6 (Prdm6), mRNA [NM_001033281]	0.66	0.044	0.511
Olfr788	NM_146551	ref Mus musculus olfactory receptor 788 (Olfr788), mRNA [NM_146551]	0.66	0.028	0.475
chr2:174982600-175005825_F	chr2:174982600-175005825_F	lincRNA:chr2:174982600-175005825 forward strand	0.66	0.029	0.477
Sbpl	NM_001077421	ref Mus musculus spermine binding protein-like (Sbpl), mRNA [NM_001077421]	0.66	0.029	0.477
chr16:13752215-13764390_F	chr16:13752215-13764390_F	lincRNA:chr16:13752215-13764390 forward strand	0.66	0.035	0.494
Gm4258	XM_001479555	ref PREDICTED: Mus musculus hypothetical protein LOC100047955 (LOC100047955), mRNA [XM_001479555]	0.66	0.040	0.502
chr1:108657255-108667405_R	chr1:108657255-108667405_R	lincRNA:chr1:108657255-108667405 reverse strand	0.66	0.029	0.477
chr4:59093960-59122541_R	chr4:59093960-59122541_R	lincRNA:chr4:59093960-59122541 reverse strand	0.66	0.048	0.517
LOC100045006	XM_001473539	ref PREDICTED: Mus musculus hypothetical protein LOC100045006 (LOC100045006), mRNA [XM_001473539]	0.66	0.010	0.405
1700062C10Rik	XM_001473468	ref PREDICTED: Mus musculus RIKEN cDNA 1700062C10 gene (1700062C10Rik), mRNA [XM_001473468]	0.66	0.003	0.297
Olfr195	NM_146998	ref Mus musculus olfactory receptor 195 (Olfr195), mRNA [NM_146998]	0.65	0.011	0.406
Olfr63	NM_146937	ref Mus musculus olfactory receptor 63 (Olfr63), mRNA [NM_146937]	0.65	0.004	0.325
ENSMUST00000098472	ENSMUST00000098472	ens RIKEN cDNA 4930513N10 gene Gene [Source:MGI Symbol;Acc:MGI:2443064] [ENSMUST00000098472]	0.65	0.001	0.227
Spam1	NM_001079875	ref Mus musculus sperm adhesion molecule 1 (Spam1), transcript variant 1, mRNA [NM_001079875]	0.65	0.014	0.412
chr7:26212709-26230775_F	chr7:26212709-26230775_F	lincRNA:chr7:26212709-26230775 forward strand	0.65	0.028	0.474
Ghrhr	NM_001003685	ref Mus musculus growth hormone releasing hormone receptor (Ghrhr), mRNA [NM_001003685]	0.65	0.034	0.493
Gm3003	XM_001475395	ref PREDICTED: Mus musculus similar to cyclic nucleotide gated channel beta 1 (LOC100040856), mRNA [XM_001475395]	0.65	0.002	0.271

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Elovl3	NM_007703	ref Mus musculus elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 3 (Elovl3), mRNA [NM_007703]	0.65	0.008	0.391
ENSMUST00000114607	ENSMUST00000114607	ens enhancer trap locus 4 Gene [Source:MGI (curated);Acc:MGI:95454] [ENSMUST00000114607]	0.65	0.048	0.517
chr15:99762797-99786472_F	chr15:99762797-99786472_F	lincRNA:chr15:99762797-99786472 forward strand	0.65	0.027	0.472
Olf1033	NM_146578	ref Mus musculus olfactory receptor 1033 (Olf1033), mRNA [NM_146578]	0.64	0.019	0.439
ENSMUST00000112734	ENSMUST00000112734	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3TNN7] [ENSMUST00000112734]	0.64	0.006	0.366
chr7:66562376-66579519_F	chr7:66562376-66579519_F	lincRNA:chr7:66562376-66579519 forward strand	0.64	0.020	0.447
chr10:62262341-62269593_F	chr10:62262341-62269593_F	lincRNA:chr10:62262341-62269593 forward strand	0.64	0.033	0.488
LOC672552	XM_001475103	ref PREDICTED: Mus musculus similar to Ly6C antigen (LOC672552), mRNA [XM_001475103]	0.64	0.044	0.512
4930402F06Rik	NM_001080709	ref Mus musculus RIKEN cDNA 4930402F06 gene (4930402F06Rik), mRNA [NM_001080709]	0.64	0.049	0.519
LOC100044623	XM_001472729	ref PREDICTED: Mus musculus similar to keratin complex 1, acidic, gene 12 (LOC100044623), mRNA [XM_001472729]	0.64	0.007	0.377
Olf312	NM_001011819	ref Mus musculus olfactory receptor 312 (Olf312), mRNA [NM_001011819]	0.64	0.022	0.452
chr7:16584852-16657252_R	chr7:16584852-16657252_R	lincRNA:chr7:16584852-16657252 reverse strand	0.63	0.035	0.494
Zfp287	NM_133208	ref Mus musculus zinc finger protein 287 (Zfp287), mRNA [NM_133208]	0.63	0.021	0.448
A130030D18Rik	XM_001476546	ref PREDICTED: Mus musculus RIKEN cDNA A130030D18 gene (A130030D18Rik), mRNA [XM_001476546]	0.63	0.016	0.425
chr10:66349796-66378261_R	chr10:66349796-66378261_R	lincRNA:chr10:66349796-66378261 reverse strand	0.63	0.004	0.308
Olf517	NM_001011846	ref Mus musculus olfactory receptor 517 (Olf517), mRNA [NM_001011846]	0.63	0.012	0.408
chr17:15357376-15385701_R	chr17:15357376-15385701_R	lincRNA:chr17:15357376-15385701 reverse strand	0.63	0.001	0.227
Gm8883	NR_027658	ref Mus musculus predicted gene 8883 (Gm8883), non-coding RNA [NR_027658]	0.63	0.007	0.377
chr1:183783306-183834531_R	chr1:183783306-183834531_R	lincRNA:chr1:183783306-183834531 reverse strand	0.63	0.007	0.370
Gpr123	NM_177469	ref Mus musculus G protein-coupled receptor 123 (Gpr123), mRNA [NM_177469]	0.63	0.014	0.414
chr17:36130717-36137617_R	chr17:36130717-36137617_R	lincRNA:chr17:36130717-36137617 reverse strand	0.63	0.042	0.508
Gm2353	XM_001472075	ref PREDICTED: Mus musculus hypothetical protein LOC100044354 (LOC100044354), mRNA [XM_001472075]	0.63	0.014	0.415
chr9:53613193-53613871_F	chr9:53613193-53613871_F	lincRNA:chr9:53613193-53613871 forward strand	0.63	0.030	0.477
chr13:99870660-99877535_F	chr13:99870660-99877535_F	lincRNA:chr13:99870660-99877535 forward strand	0.63	0.038	0.498
ENSMUST00000112293	ENSMUST00000112293	ens RIKEN cDNA 1700106N22 gene Gene [Source:MGI Symbol;Acc:MGI:1920832] [ENSMUST00000112293]	0.63	0.034	0.493
chr3:145269449-145298239_R	chr3:145269449-145298239_R	lincRNA:chr3:145269449-145298239 reverse strand	0.63	0.036	0.495

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Bex6	NM_001033539	ref Mus musculus brain expressed gene 6 (Bex6), mRNA [NM_001033539]	0.63	0.003	0.282
chr10:96082444-96096696_R	chr10:96082444-96096696_R	lincRNA:chr10:96082444-96096696 reverse strand	0.63	0.049	0.519
Slc25a2	NM_001159275	ref Mus musculus solute carrier family 25 (mitochondrial carrier, ornithine transporter) member 2 (Slc25a2), nuclear gene encoding mitochondrial protein, mRNA [NM_001159275]	0.62	0.022	0.452
chr8:94849929-94870274_R	chr8:94849929-94870274_R	lincRNA:chr8:94849929-94870274 reverse strand	0.62	0.005	0.346
chr2:108456668-108532418_F	chr2:108456668-108532418_F	lincRNA:chr2:108456668-108532418 forward strand	0.62	0.019	0.440
AI480461	AK148445	gb Mus musculus adult pancreas islet cells cDNA, RIKEN full-length enriched library, clone:C820001A05 product:unclassifiable, full insert sequence. [AK148445]	0.62	0.046	0.513
Mpo	AY500847	gb Mus musculus myeloperoxidase precursor (Mpo) mRNA, complete cds. [AY500847]	0.62	0.019	0.437
C430049E01Rik	AK141396	gb Mus musculus 7 days embryo whole body cDNA, RIKEN full-length enriched library, clone:C430049E01 product:hypothetical protein, full insert sequence. [AK141396]	0.62	0.000	0.077
Vipr2	NM_009511	ref Mus musculus vasoactive intestinal peptide receptor 2 (Vipr2), mRNA [NM_009511]	0.62	0.005	0.354
Krt15	NM_008469	ref Mus musculus keratin 15 (Krt15), mRNA [NM_008469]	0.62	0.015	0.423
Gm2369	XM_001473320	ref PREDICTED: Mus musculus similar to cyclic nucleotide gated channel beta 1 (LOC100039680), mRNA [XM_001473320]	0.62	0.047	0.514
LOC100048543	XM_001480480	ref PREDICTED: Mus musculus similar to glutamine repeat protein-1 (LOC100048543), mRNA [XM_001480480]	0.62	0.041	0.504
ENSMUST00000044964	ENSMUST00000044964	ens RIKEN cDNA 2210406O10 gene Gene [Source:MGI Symbol;Acc:MGI:1923960] [ENSMUST00000044964]	0.62	0.022	0.452
chr8:90000619-90061169_R	chr8:90000619-90061169_R	lincRNA:chr8:90000619-90061169 reverse strand	0.62	0.027	0.471
chr6:39267707-39268180_R	chr6:39267707-39268180_R	lincRNA:chr6:39267707-39268180 reverse strand	0.62	0.029	0.477
chr12:15735906-15798506_F	chr12:15735906-15798506_F	lincRNA:chr12:15735906-15798506 forward strand	0.61	0.039	0.500
chr1:162965001-162966376_F	chr1:162965001-162966376_F	lincRNA:chr1:162965001-162966376 forward strand	0.61	0.013	0.412
C630004M23Rik	AK049866	gb Mus musculus adult male hippocampus cDNA, RIKEN full-length enriched library, clone:C630004M23 product:hypothetical protein, full insert sequence. [AK049866]	0.61	0.030	0.477
C030034E14Rik	CX239135	gb NMA06909 Mus Musculus Lateral Ventricle Wall C57BL [CX239135]	0.61	0.050	0.520
Ces2	NM_145603	ref Mus musculus carboxylesterase 2 (Ces2), mRNA [NM_145603]	0.61	0.035	0.494
chr6:118250184-118258737_R	chr6:118250184-118258737_R	lincRNA:chr6:118250184-118258737 reverse strand	0.61	0.037	0.497
ENSMUST00000097586	ENSMUST00000097586	Unknown	0.61	0.019	0.437
chr15:97674015-97674423_R	chr15:97674015-97674423_R	lincRNA:chr15:97674015-97674423 reverse strand	0.61	0.047	0.515
chr15:74476126-74476191_F	chr15:74476126-74476191_F	lincRNA:chr15:74476126-74476191 forward strand	0.61	0.004	0.316

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Gm13954	XM_001479906	ref PREDICTED: Mus musculus hypothetical protein LOC100043394 (LOC100043394), mRNA [XM_001479906]	0.60	0.032	0.483
chr4:149383134-149451259_R	chr4:149383134-149451259_R	lincRNA:chr4:149383134-149451259 reverse strand	0.60	0.035	0.494
Olf1507	NM_001170918	ref Mus musculus olfactory receptor 1507 (Olf1507), transcript variant 1, mRNA [NM_001170918]	0.60	0.042	0.508
chr4:59105222-59122541_R	chr4:59105222-59122541_R	lincRNA:chr4:59105222-59122541 reverse strand	0.60	0.035	0.495
4930528H21Rik	XM_001472326	ref PREDICTED: Mus musculus RIKEN cDNA 4930528H21 gene (4930528H21Rik), mRNA [XM_001472326]	0.60	0.040	0.504
5830409B07Rik	XM_985015	ref PREDICTED: Mus musculus RIKEN cDNA 5830409B07 gene (5830409B07Rik), mRNA [XM_985015]	0.60	0.042	0.507
9130221J18Rik	AK033690	gb Mus musculus adult male cecum cDNA, RIKEN full-length enriched library, clone:9130221J18 product:unclassifiable, full insert sequence. [AK033690]	0.60	0.040	0.502
chr6:95418306-95424131_F	chr6:95418306-95424131_F	lincRNA:chr6:95418306-95424131 forward strand	0.60	0.014	0.412
chr3:78982395-79094345_F	chr3:78982395-79094345_F	lincRNA:chr3:78982395-79094345 forward strand	0.60	0.021	0.449
Gm7530	XR_030886	ref PREDICTED: Mus musculus similar to calyculin binding protein (LOC665182), misc RNA [XR_030886]	0.60	0.001	0.248
1700025F24Rik	BY715316	gb BY715316 RIKEN full-length enriched, adult male testis Mus musculus cDNA clone 4930512124 5'. [BY715316]	0.60	0.022	0.450
Gm15688	AK035802	gb Mus musculus 16 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:9630005120 product:unclassifiable, full insert sequence. [AK035802]	0.60	0.013	0.412
4930488B22Rik	AK015643	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930488B22 product:unclassifiable, full insert sequence. [AK015643]	0.60	0.015	0.419
chr12:116850878-116855932_R	chr12:116850878-116855932_R	lincRNA:chr12:116850878-116855932 reverse strand	0.59	0.004	0.308
Try5	NM_001003405	ref Mus musculus trypsin 5 (Try5), mRNA [NM_001003405]	0.59	0.045	0.513
chr10:92550314-92577555_F	chr10:92550314-92577555_F	lincRNA:chr10:92550314-92577555 forward strand	0.59	0.049	0.519
chr16:59557120-59602070_F	chr16:59557120-59602070_F	lincRNA:chr16:59557120-59602070 forward strand	0.59	0.022	0.450
chr1:71939741-71947891_R	chr1:71939741-71947891_R	lincRNA:chr1:71939741-71947891 reverse strand	0.59	0.021	0.450
1700102P08Rik	NM_053216	ref Mus musculus RIKEN cDNA 1700102P08 gene (1700102P08Rik), mRNA [NM_053216]	0.59	0.046	0.513
chr2:79517813-79518321_F	chr2:79517813-79518321_F	lincRNA:chr2:79517813-79518321 forward strand	0.59	0.038	0.499
Timd2	NM_001161355	ref Mus musculus T-cell immunoglobulin and mucin domain containing 2 (Timd2), transcript variant 1, mRNA [NM_001161355]	0.59	0.037	0.498
chr13:64018565-64082570_F	chr13:64018565-64082570_F	lincRNA:chr13:64018565-64082570 forward strand	0.59	0.026	0.470
chr18:77965011-77972761_F	chr18:77965011-77972761_F	lincRNA:chr18:77965011-77972761 forward strand	0.59	0.036	0.495
chr5:108538417-108550517_R	chr5:108538417-108550517_R	lincRNA:chr5:108538417-108550517 reverse strand	0.59	0.036	0.495
Olf1112	NM_146661	ref Mus musculus olfactory receptor 1112 (Olf1112), mRNA [NM_146661]	0.59	0.030	0.477

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
2300002M23Rik	NM_175148	ref Mus musculus RIKEN cDNA 2300002M23 gene (2300002M23Rik), mRNA [NM_175148]	0.59	0.011	0.406
chr5:107504871-107507830_F	chr5:107504871-107507830_F	lincRNA:chr5:107504871-107507830 forward strand	0.59	0.019	0.439
Tagap1	NM_147155	ref Mus musculus T-cell activation GTPase activating protein 1 (Tagap1), mRNA [NM_147155]	0.59	0.004	0.330
C030044M21Rik	XM_001476739	ref PREDICTED: Mus musculus RIKEN cDNA C030044M21 gene (C030044M21Rik), mRNA [XM_001476739]	0.59	0.016	0.426
chr15:102100397-102105872_R	chr15:102100397-102105872_R	lincRNA:chr15:102100397-102105872 reverse strand	0.59	0.027	0.471
chr11:87841800-87858725_F	chr11:87841800-87858725_F	lincRNA:chr11:87841800-87858725 forward strand	0.58	0.031	0.483
chr1:42689799-42749799_R	chr1:42689799-42749799_R	lincRNA:chr1:42689799-42749799 reverse strand	0.58	0.017	0.435
Gm10471	NM_001177579	ref Mus musculus predicted gene 10471 (Gm10471), mRNA [NM_001177579]	0.58	0.011	0.406
chr1:162933979-162944379_F	chr1:162933979-162944379_F	lincRNA:chr1:162933979-162944379 forward strand	0.58	0.036	0.496
LOC634148	XM_908790	ref PREDICTED: Mus musculus similar to beta-1,3-galactosyltransferase-6 (LOC634148), mRNA [XM_908790]	0.58	0.007	0.377
1700029H14Rik	NM_025601	ref Mus musculus RIKEN cDNA 1700029H14 gene (1700029H14Rik), transcript variant 1, mRNA [NM_025601]	0.58	0.011	0.406
chr2:25774411-25783736_F	chr2:25774411-25783736_F	lincRNA:chr2:25774411-25783736 forward strand	0.58	0.017	0.434
Npnt	NM_033525	ref Mus musculus nephronectin (Npnt), transcript variant 1, mRNA [NM_033525]	0.58	0.009	0.398
chrX:123303474-123305531_F	chrX:123303474-123305531_F	lincRNA:chrX:123303474-123305531 forward strand	0.58	0.047	0.516
LOC639920	XM_916550	ref PREDICTED: Mus musculus hypothetical LOC639920 (LOC639920), mRNA [XM_916550]	0.58	0.026	0.471
4930570E03Rik	XM_001472659	ref PREDICTED: Mus musculus RIKEN cDNA 4930570E03 gene (4930570E03Rik), mRNA [XM_001472659]	0.58	0.013	0.412
Sik3	NM_027498	ref Mus musculus SIK family kinase 3 (Sik3), mRNA [NM_027498]	0.58	0.047	0.514
chr5:92548501-92566401_R	chr5:92548501-92566401_R	lincRNA:chr5:92548501-92566401 reverse strand	0.58	0.017	0.434
Krt23	NM_033373	ref Mus musculus keratin 23 (Krt23), mRNA [NM_033373]	0.58	0.011	0.407
6430704M03Rik	NM_001142965	ref Mus musculus RIKEN cDNA 6430704M03 gene (6430704M03Rik), mRNA [NM_001142965]	0.57	0.034	0.493
Cyp3a11	NM_007818	ref Mus musculus cytochrome P450, family 3, subfamily a, polypeptide 11 (Cyp3a11), mRNA [NM_007818]	0.57	0.031	0.482
Heatr7b2	NM_001166066	ref Mus musculus XVHEAT repeat family member 7B2 (Heatr7b2), mRNA [NM_001166066]	0.57	0.044	0.513
chr18:63355660-63369610_R	chr18:63355660-63369610_R	lincRNA:chr18:63355660-63369610 reverse strand	0.57	0.027	0.472
chrX:50087925-50101700_R	chrX:50087925-50101700_R	lincRNA:chrX:50087925-50101700 reverse strand	0.57	0.045	0.513
chr9:65376063-65390480_R	chr9:65376063-65390480_R	lincRNA:chr9:65376063-65390480 reverse strand	0.57	0.002	0.263
Tnrc18	NM_178242	ref Mus musculus trinucleotide repeat containing 18 (Tnrc18), transcript variant B, mRNA [NM_178242]	0.57	0.023	0.453
A330068G13Rik	XR_002354	ref PREDICTED: Mus musculus RIKEN cDNA A330068G13 gene (A330068G13Rik), misc RNA [XR_002354]	0.57	0.036	0.495
Nell1	NM_001037906	ref Mus musculus NEL-like 1 (chicken) (Nell1), mRNA [NM_001037906]	0.57	0.015	0.421

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000069573	ENSMUST00000069573	ens RIKEN cDNA 1700034H15 gene Gene [Source:MGI Symbol;Acc:MGI:1921515] [ENSMUST00000069573]	0.57	0.026	0.470
Gm6040	NM_001025353	ref Mus musculus predicted gene 6040 (Gm6040), mRNA [NM_001025353]	0.57	0.004	0.315
chr9:96664617-96683617_F	chr9:96664617-96683617_F	lincRNA:chr9:96664617-96683617 forward strand	0.57	0.036	0.495
4833442J19Rik	NM_177101	ref Mus musculus RIKEN cDNA 4833442J19 gene (4833442J19Rik), mRNA [NM_177101]	0.57	0.048	0.516
chr19:27448093-27462793_R	chr19:27448093-27462793_R	lincRNA:chr19:27448093-27462793 reverse strand	0.57	0.018	0.435
Isx	NM_027837	ref Mus musculus intestine specific homeobox (Isx), mRNA [NM_027837]	0.57	0.007	0.377
B4galnt2	NM_008081	ref Mus musculus beta-1,4-N-acetyl-galactosaminyl transferase 2 (B4galnt2), mRNA [NM_008081]	0.56	0.006	0.369
chr7:66570691-66573827_R	chr7:66570691-66573827_R	lincRNA:chr7:66570691-66573827 reverse strand	0.56	0.012	0.410
Olfr382	NM_146443	ref Mus musculus olfactory receptor 382 (Olfr382), mRNA [NM_146443]	0.56	0.009	0.397
Foxb1	NM_022378	ref Mus musculus forkhead box B1 (Foxb1), mRNA [NM_022378]	0.56	0.021	0.448
A630095N17Rik	XM_001472088	ref PREDICTED: Mus musculus RIKEN cDNA A630095N17 gene (A630095N17Rik), mRNA [XM_001472088]	0.56	0.031	0.480
chr3:117935228-118089771_F	chr3:117935228-118089771_F	lincRNA:chr3:117935228-118089771 forward strand	0.56	0.006	0.369
9330111N05Rik	AK033894	gb Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched library, clone:9330111N05 product:unclassifiable, full insert sequence. [AK033894]	0.56	0.031	0.480
D16Ertd6e	C76316	gb C76316 Mouse 3.5-dpc blastocyst cDNA Mus musculus cDNA clone J0008E12 3'. [C76316]	0.56	0.009	0.398
Bcmo1	NM_021486	ref Mus musculus beta-carotene 15,15'-monooxygenase (Bcmo1), transcript variant 1, mRNA [NM_021486]	0.56	0.043	0.510
chr8:44232164-44267061_F	chr8:44232164-44267061_F	lincRNA:chr8:44232164-44267061 forward strand	0.56	0.035	0.495
chr8:34627209-34667814_F	chr8:34627209-34667814_F	lincRNA:chr8:34627209-34667814 forward strand	0.56	0.033	0.490
4930529K09Rik	AK015937	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930529K09 product:unclassifiable, full insert sequence. [AK015937]	0.56	0.018	0.437
Cnot2	NM_001037848	ref Mus musculus CCR4-NOT transcription complex, subunit 2 (Cnot2), transcript variant 4, mRNA [NM_001037848]	0.56	0.025	0.464
chr16:4585697-4594022_F	chr16:4585697-4594022_F	lincRNA:chr16:4585697-4594022 forward strand	0.56	0.022	0.451
chr2:45132558-45136718_F	chr2:45132558-45136718_F	lincRNA:chr2:45132558-45136718 forward strand	0.56	0.007	0.383
chr7:134779841-134840591_F	chr7:134779841-134840591_F	lincRNA:chr7:134779841-134840591 forward strand	0.56	0.034	0.491
chr5:30550467-30559008_F	chr5:30550467-30559008_F	lincRNA:chr5:30550467-30559008 forward strand	0.56	0.006	0.369
chr2:31001736-31006911_F	chr2:31001736-31006911_F	lincRNA:chr2:31001736-31006911 forward strand	0.56	0.037	0.496
ENSMUST00000099300	ENSMUST00000099300	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3TZ19] [ENSMUST00000099300]	0.56	0.028	0.476
4933404K08Rik	AK016652	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933404K08 product:unclassifiable, full insert sequence. [AK016652]	0.56	0.039	0.500

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Gm10768	NR_033472	ref Mus musculus predicted gene 10768 (Gm10768), non-coding RNA [NR_033472]	0.56	0.027	0.473
4930555G01Rik	NM_175393	ref Mus musculus RIKEN cDNA 4930555G01 gene (4930555G01Rik), mRNA [NM_175393]	0.56	0.012	0.409
Pcdh8	NM_021543	ref Mus musculus protocadherin 8 (Pcdh8), transcript variant 1, mRNA [NM_021543]	0.55	0.012	0.408
Olfr600	NM_147046	ref Mus musculus olfactory receptor 600 (Olfr600), mRNA [NM_147046]	0.55	0.021	0.447
chr5:143196275-143207575_F	chr5:143196275-143207575_F	lincRNA:chr5:143196275-143207575 forward strand	0.55	0.000	0.154
Mtap7	NM_008635	ref Mus musculus microtubule-associated protein 7 (Mtap7), mRNA [NM_008635]	0.55	0.033	0.487
ENSMUST00000052291	ENSMUST00000052291	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q8CEY4] [ENSMUST00000052291]	0.55	0.031	0.482
chr4:11049325-11072075_R	chr4:11049325-11072075_R	lincRNA:chr4:11049325-11072075 reverse strand	0.55	0.022	0.451
Rfx2	NM_009056	ref Mus musculus regulatory factor X, 2 (influences HLA class II expression) (Rfx2), transcript variant 2, mRNA [NM_009056]	0.55	0.022	0.450
Tmem41a	NM_025693	ref Mus musculus transmembrane protein 41a (Tmem41a), mRNA [NM_025693]	0.55	0.017	0.434
chr8:94841965-94881130_R	chr8:94841965-94881130_R	lincRNA:chr8:94841965-94881130 reverse strand	0.55	0.012	0.412
LOC100047811	XM_001478912	ref PREDICTED: Mus musculus similar to Y25C1A.3 (LOC100047811), mRNA [XM_001478912]	0.55	0.018	0.437
Vmn2r-ps122	XM_892296	ref PREDICTED: Mus musculus predicted gene, EG627618 (EG627618), mRNA [XM_892296]	0.55	0.020	0.445
Baiap2	NM_001037755	ref Mus musculus brain-specific angiogenesis inhibitor 1-associated protein 2 (Baiap2), transcript variant 1, mRNA [NM_001037755]	0.55	0.035	0.493
Olfr398	NM_146710	ref Mus musculus olfactory receptor 398 (Olfr398), mRNA [NM_146710]	0.55	0.022	0.450
Olfr601	NM_146314	ref Mus musculus olfactory receptor 601 (Olfr601), mRNA [NM_146314]	0.55	0.043	0.511
Vmn2r65	NM_001105180	ref Mus musculus vomeronasal 2, receptor 65 (Vmn2r65), mRNA [NM_001105180]	0.55	0.025	0.464
chr11:102878974-102888924_R	chr11:102878974-102888924_R	lincRNA:chr11:102878974-102888924 reverse strand	0.55	0.010	0.401
ENSMUST00000112129	ENSMUST00000112129	ens Rho GTPase activating protein 6 Gene [Source:MGI (curated);Acc:MGI:1196332] [ENSMUST00000112129]	0.55	0.009	0.393
BC049349	NM_001164581	ref Mus musculus cDNA sequence BC049349 (BC049349), mRNA [NM_001164581]	0.55	0.002	0.281
ENSMUST00000103318	ENSMUST00000103318	gb Mus musculus clone H1 monoclonal autoantibody light chain variable region mRNA, partial cds. [EU568236]	0.55	0.007	0.384
chr16:86770170-86874921_R	chr16:86770170-86874921_R	lincRNA:chr16:86770170-86874921 reverse strand	0.55	0.048	0.516
Il28b	NM_177396	ref Mus musculus interleukin 28B (Il28b), mRNA [NM_177396]	0.55	0.002	0.271
chr6:35441848-35450830_R	chr6:35441848-35450830_R	lincRNA:chr6:35441848-35450830 reverse strand	0.55	0.020	0.443
Olfr1136	NM_146659	ref Mus musculus olfactory receptor 1136 (Olfr1136), mRNA [NM_146659]	0.55	0.032	0.483
AU020147	BG069650	gb H3078F05-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3078F05 3', mRNA sequence [BG069650]	0.55	0.037	0.498

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Gpr81	NM_175520	ref Mus musculus G protein-coupled receptor 81 (Gpr81), mRNA [NM_175520]	0.55	0.018	0.436
Tmem28	ENSMUST00000096363	ens transmembrane protein 28 Gene [Source:MGI (curated);Acc:MGI:3648377] [ENSMUST00000096363]	0.54	0.009	0.397
ENSMUST00000101522	ENSMUST00000101522	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UTW8] [ENSMUST00000101522]	0.54	0.046	0.513
Syn2	NM_001111015	ref Mus musculus synapsin II (Syn2), transcript variant IIa, mRNA [NM_001111015]	0.54	0.012	0.408
Nlgn1	NM_138666	ref Mus musculus neuroligin 1 (Nlgn1), transcript variant 1, mRNA [NM_138666]	0.54	0.022	0.452
Hsd17b2	NM_008290	ref Mus musculus hydroxysteroid (17-beta) dehydrogenase 2 (Hsd17b2), mRNA [NM_008290]	0.54	0.024	0.460
Gm14137	NM_001039223	ref Mus musculus predicted gene 14137 (Gm14137), mRNA [NM_001039223]	0.54	0.018	0.437
chrX:120812236-121038407_R	chrX:120812236-121038407_R	lincRNA:chrX:120812236-121038407 reverse strand	0.54	0.034	0.491
LOC100048762	XM_001481197	ref PREDICTED: Mus musculus similar to lymphocyte antigen-49D1 (LOC100048762), mRNA [XM_001481197]	0.54	0.011	0.407
Gm5222	XM_908097	ref PREDICTED: Mus musculus hypothetical LOC383196 (LOC383196), mRNA [XM_908097]	0.54	0.015	0.423
chr9:39982939-39992189_F	chr9:39982939-39992189_F	lincRNA:chr9:39982939-39992189 forward strand	0.54	0.022	0.453
Gm8781	XM_001001937	ref PREDICTED: Mus musculus predicted gene, EG667720 (EG667720), mRNA [XM_001001937]	0.54	0.032	0.484
Olf561	NM_147092	ref Mus musculus olfactory receptor 561 (Olf561), mRNA [NM_147092]	0.54	0.039	0.501
Cndp1	NM_177450	ref Mus musculus carnosine dipeptidase 1 (metallopeptidase M20 family) (Cndp1), mRNA [NM_177450]	0.54	0.036	0.495
LOC100048218	XM_001479770	ref PREDICTED: Mus musculus similar to EAT2b (LOC100048218), mRNA [XM_001479770]	0.54	0.003	0.305
Ugt2b34	NM_153598	ref Mus musculus UDP glucuronosyltransferase 2 family, polypeptide B34 (Ugt2b34), mRNA [NM_153598]	0.54	0.041	0.507
Nrf1	NM_010938	ref Mus musculus nuclear respiratory factor 1 (Nrf1), transcript variant 6, mRNA [NM_010938]	0.53	0.037	0.497
Gm6732	XM_891766	ref PREDICTED: Mus musculus predicted gene, EG627108 (EG627108), mRNA [XM_891766]	0.53	0.026	0.470
chr1:52706748-52712402_R	chr1:52706748-52712402_R	lincRNA:chr1:52706748-52712402 reverse strand	0.53	0.020	0.442
Ms4a14	ENSMUST00000067600	ref PREDICTED: Mus musculus gene model 1276, (NCBI) (Gm1276), mRNA [XM_357051]	0.53	0.018	0.437
chr7:133402766-133415516_R	chr7:133402766-133415516_R	lincRNA:chr7:133402766-133415516 reverse strand	0.53	0.003	0.303
chr12:116850878-116855932_R	chr12:116850878-116855932_R	lincRNA:chr12:116850878-116855932 reverse strand	0.53	0.022	0.452
chr14:76237150-76237464_R	chr14:76237150-76237464_R	lincRNA:chr14:76237150-76237464 reverse strand	0.53	0.018	0.435
Rora	NM_013646	ref Mus musculus RAR-related orphan receptor alpha (Rora), mRNA [NM_013646]	0.53	0.046	0.513
Tmem132d	NM_172885	ref Mus musculus transmembrane protein 132D (Tmem132d), mRNA [NM_172885]	0.53	0.014	0.418
chr2:94008913-94019798_R	chr2:94008913-94019798_R	lincRNA:chr2:94008913-94019798 reverse strand	0.53	0.030	0.477
chr3:26975624-26988699_F	chr3:26975624-26988699_F	lincRNA:chr3:26975624-26988699 forward strand	0.53	0.014	0.418

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Gm4791	XM_001479577	ref PREDICTED: Mus musculus hypothetical protein D930036J05 (D930036J05), mRNA [XM_001479577]	0.53	0.027	0.472
chr18:5119300-5181600_F	chr18:5119300-5181600_F	lincRNA:chr18:5119300-5181600 forward strand	0.53	0.032	0.483
Cyp26c1	NM_001105201	ref Mus musculus cytochrome P450, family 26, subfamily c, polypeptide 1 (Cyp26c1), mRNA [NM_001105201]	0.53	0.042	0.508
ENSMUST00000119485	ENSMUST00000119485	ens retinol dehydrogenase 13 (all-trans and 9-cis) Gene [Source:MGI (curated);Acc:MGI:1918732] [ENSMUST00000119485]	0.53	0.029	0.477
chr10:94900849-94928059_F	chr10:94900849-94928059_F	lincRNA:chr10:94900849-94928059 forward strand	0.53	0.007	0.377
chr7:66926500-66952100_F	chr7:66926500-66952100_F	lincRNA:chr7:66926500-66952100 forward strand	0.53	0.018	0.435
chr2:164739589-164745000_F	chr2:164739589-164745000_F	lincRNA:chr2:164739589-164745000 forward strand	0.53	0.022	0.453
Mtap7	NM_008635	ref Mus musculus microtubule-associated protein 7 (Mtap7), mRNA [NM_008635]	0.52	0.048	0.517
Gm10375	NM_001098269	ref Mus musculus predicted gene 10375 (Gm10375), mRNA [NM_001098269]	0.52	0.028	0.474
chr11:33414450-33450750_F	chr11:33414450-33450750_F	lincRNA:chr11:33414450-33450750 forward strand	0.52	0.028	0.476
chr6:146495264-146495602_R	chr6:146495264-146495602_R	lincRNA:chr6:146495264-146495602 reverse strand	0.52	0.017	0.429
4932436B18	AK030081	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4932436B18 product:similar to PMS1 PROTEIN HOMOLOG 1 (DNA MISMATCH REPAIR PROTEIN PMS1) [Homo sapiens], full insert sequence. [AK030081]	0.52	0.044	0.512
Olfr430	NM_146718	ref Mus musculus olfactory receptor 430 (Olfr430), mRNA [NM_146718]	0.52	0.012	0.410
Atp8a2	NM_015803	ref Mus musculus ATPase, aminophospholipid transporter-like, class I, type 8A, member 2 (Atp8a2), mRNA [NM_015803]	0.52	0.023	0.454
Fbxo2	NM_176848	ref Mus musculus F-box protein 2 (Fbxo2), mRNA [NM_176848]	0.52	0.007	0.383
Dmc1	NM_010059	ref Mus musculus DMC1 dosage suppressor of mck1 homolog, meiosis-specific homologous recombination (yeast) (Dmc1), mRNA [NM_010059]	0.52	0.025	0.465
AK148615	AK148615	gb Mus musculus 2 days neonate sympathetic ganglion cDNA, RIKEN full-length enriched library, clone:7120423E20 product:hypothetical protein, full insert sequence. [AK148615]	0.52	0.042	0.507
KCNQ1ot1	KCNQ1ot1	lincRNA:chr7:150399015-150482452 forward strand	0.52	0.034	0.493
Gm156	NM_001014997	ref Mus musculus predicted gene 156 (Gm156), mRNA [NM_001014997]	0.52	0.044	0.513
Ppp2r3a	NM_001161362	ref Mus musculus protein phosphatase 2, regulatory subunit B", alpha (Ppp2r3a), transcript variant 1, mRNA [NM_001161362]	0.52	0.026	0.470
chr16:9249688-9275013_R	chr16:9249688-9275013_R	lincRNA:chr16:9249688-9275013 reverse strand	0.52	0.020	0.443
Col2a1	NM_001113515	ref Mus musculus collagen, type II, alpha 1 (Col2a1), transcript variant 2, mRNA [NM_001113515]	0.52	0.028	0.474
Hipk1	NM_010432	ref Mus musculus homeodomain interacting protein kinase 1 (Hipk1), mRNA [NM_010432]	0.52	0.043	0.509
Gm12876	XM_907655	ref PREDICTED: Mus musculus similar to AUMP (LOC633279), mRNA [XM_907655]	0.52	0.045	0.513

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr5:37051650-37110575_R	chr5:37051650-37110575_R	lincRNA:chr5:37051650-37110575 reverse strand	0.52	0.020	0.445
chr17:13220550-13236900_F	chr17:13220550-13236900_F	lincRNA:chr17:13220550-13236900 forward strand	0.52	0.033	0.487
chr5:110097500-110118475_F	chr5:110097500-110118475_F	lincRNA:chr5:110097500-110118475 forward strand	0.52	0.012	0.409
Olfr1424	NM_146681	ref Mus musculus olfactory receptor 1424 (Olfr1424), mRNA [NM_146681]	0.52	0.048	0.516
Olfr860	NM_146528	ref Mus musculus olfactory receptor 860 (Olfr860), mRNA [NM_146528]	0.52	0.044	0.511
Rrh	NM_009102	ref Mus musculus retinal pigment epithelium derived rhodopsin homolog (Rrh), mRNA [NM_009102]	0.52	0.029	0.477
5430417L22Rik	NR_030716	ref Mus musculus RIKEN cDNA 5430417L22 gene (5430417L22Rik), non-coding RNA [NR_030716]	0.52	0.002	0.262
Olfr1148	NM_001011519	ref Mus musculus olfactory receptor 1148 (Olfr1148), mRNA [NM_001011519]	0.51	0.028	0.475
chr4:101010948-101032148_F	chr4:101010948-101032148_F	lincRNA:chr4:101010948-101032148 forward strand	0.51	0.041	0.506
Gm5827	XR_033677	ref PREDICTED: Mus musculus similar to Rev-Erb-beta (LOC545289), misc RNA [XR_033677]	0.51	0.013	0.412
chr4:115577276-115577566_F	chr4:115577276-115577566_F	lincRNA:chr4:115577276-115577566 forward strand	0.51	0.006	0.369
Itgbl1	NM_145467	ref Mus musculus integrin, beta-like 1 (Itgbl1), mRNA [NM_145467]	0.51	0.010	0.401
ENSMUST00000103276	ENSMUST00000103276	ens T-cell receptor beta chain V region LB2 Precursor [Source:UniProtKB/Swiss-Prot;Acc:P04212] [ENSMUST00000103276]	0.51	0.012	0.408
chr7:144563845-144603732_F	chr7:144563845-144603732_F	lincRNA:chr7:144563845-144603732 forward strand	0.51	0.026	0.468
chrX:120819096-120820227_R	chrX:120819096-120820227_R	lincRNA:chrX:120819096-120820227 reverse strand	0.51	0.020	0.443
4930502E18Rik	NM_029142	ref Mus musculus RIKEN cDNA 4930502E18 gene (4930502E18Rik), mRNA [NM_029142]	0.51	0.009	0.398
Olfr652	NM_147048	ref Mus musculus olfactory receptor 652 (Olfr652), mRNA [NM_147048]	0.51	0.030	0.477
chr17:31694070-31696057_F	chr17:31694070-31696057_F	lincRNA:chr17:31694070-31696057 forward strand	0.51	0.029	0.477
ENSMUST00000111353	ENSMUST00000111353	ens hydroxysteroid (17-beta) dehydrogenase 7 Gene [Source:MGI (curated);Acc:MGI:1330808] [ENSMUST00000111353]	0.51	0.027	0.472
Gm8903	XM_987891	ref PREDICTED: Mus musculus predicted gene, EG667970 (EG667970), mRNA [XM_987891]	0.51	0.045	0.513
chr9:88336331-88336978_R	chr9:88336331-88336978_R	lincRNA:chr9:88336331-88336978 reverse strand	0.51	0.010	0.400
Skor1	NM_172446	ref Mus musculus SKI family transcriptional corepressor 1 (Skor1), transcript variant 1, mRNA [NM_172446]	0.51	0.047	0.515
chr11:70196232-70203307_F	chr11:70196232-70203307_F	lincRNA:chr11:70196232-70203307 forward strand	0.51	0.023	0.453
Hsf5	NM_001045527	ref Mus musculus heat shock transcription factor family member 5 (Hsf5), mRNA [NM_001045527]	0.51	0.049	0.519
Gm2942	XM_001475175	ref PREDICTED: Mus musculus hypothetical protein LOC100040747 (LOC100040747), mRNA [XM_001475175]	0.51	0.012	0.410
chr8:123571640-123607481_R	chr8:123571640-123607481_R	lincRNA:chr8:123571640-123607481 reverse strand	0.51	0.036	0.495
Olfr784	NM_146729	ref Mus musculus olfactory receptor 784 (Olfr784), mRNA [NM_146729]	0.51	0.030	0.480

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Bhlhe22	NM_021560	ref Mus musculus basic helix-loop-helix family, member e22 (Bhlhe22), mRNA [NM_021560]	0.51	0.005	0.338
4933408J17Rik	AK016739	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933408J17 product:hypothetical DHS-like NAD/FAD-binding domain structure containing protein, full insert sequence. [AK016739]	0.51	0.004	0.318
chr3:37606942-37610130_F	chr3:37606942-37610130_F	lincRNA:chr3:37606942-37610130 forward strand	0.51	0.049	0.519
ENSMUST00000105292	ENSMUST00000105292	ens RIKEN cDNA 4930485B16 gene Gene [Source:MGI Symbol;Acc:MGI:1922208] [ENSMUST00000105292]	0.51	0.048	0.516
Svil	ENSMUST00000115871	ens supervillin Gene [Source:MGI (curated);Acc:MGI:2147319] [ENSMUST00000115871]	0.51	0.027	0.473
LOC641221	XM_001472961	ref PREDICTED: Mus musculus similar to H prechain (AA -19 to 98) (LOC641221), mRNA [XM_001472961]	0.51	0.008	0.391
ENSMUST00000099686	ENSMUST00000099686	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q3U1Q6] [ENSMUST00000099686]	0.51	0.048	0.516
chr4:132897264-132910714_R	chr4:132897264-132910714_R	lincRNA:chr4:132897264-132910714 reverse strand	0.51	0.046	0.513
Ypel4	NM_001005342	ref Mus musculus yippee-like 4 (Drosophila) (Ypel4), mRNA [NM_001005342]	0.51	0.021	0.448
chr6:90745692-90777977_F	chr6:90745692-90777977_F	lincRNA:chr6:90745692-90777977 forward strand	0.51	0.049	0.518
chr14:25923295-25923893_F	chr14:25923295-25923893_F	lincRNA:chr14:25923295-25923893 forward strand	0.51	0.047	0.515
Arhgap40	NM_001145015	ref Mus musculus Rho GTPase activating protein 40 (Arhgap40), mRNA [NM_001145015]	0.50	0.022	0.450
chr8:105795290-105864030_F	chr8:105795290-105864030_F	lincRNA:chr8:105795290-105864030 forward strand	0.50	0.046	0.513
Sh3bp4	NM_133816	ref Mus musculus SH3-domain binding protein 4 (Sh3bp4), mRNA [NM_133816]	0.50	0.048	0.517
chr14:67585234-67596823_F	chr14:67585234-67596823_F	lincRNA:chr14:67585234-67596823 forward strand	0.50	0.026	0.469
Gm13043	NM_001039595	ref Mus musculus predicted gene 13043 (Gm13043), mRNA [NM_001039595]	0.50	0.029	0.477
chr16:22718344-22725594_R	chr16:22718344-22725594_R	lincRNA:chr16:22718344-22725594 reverse strand	0.50	0.041	0.505
chr5:53931541-53945241_R	chr5:53931541-53945241_R	lincRNA:chr5:53931541-53945241 reverse strand	0.50	0.018	0.437
ENSMUST00000113743	ENSMUST00000113743	ens receptor-interacting serine-threonine kinase 4 Gene [Source:MGI (curated);Acc:MGI:1919638] [ENSMUST00000113743]	0.50	0.049	0.519
Crem	NM_001110851	ref Mus musculus cAMP responsive element modulator (Crem), transcript variant 7, mRNA [NM_001110851]	0.50	0.035	0.495
ENSMUST00000094315	ENSMUST00000094315	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q8CCF3] [ENSMUST00000094315]	0.50	0.037	0.497
chr16:13752215-13764390_R	chr16:13752215-13764390_R	lincRNA:chr16:13752215-13764390 reverse strand	0.50	0.010	0.406
Olfr160	NM_030553	ref Mus musculus olfactory receptor 160 (Olfr160), mRNA [NM_030553]	0.50	0.018	0.435
Atp6v1b1	NM_134157	ref Mus musculus ATPase, H+ transporting, lysosomal V1 subunit B1 (Atp6v1b1), mRNA [NM_134157]	0.50	0.003	0.281
chr10:116814196-116920696_R	chr10:116814196-116920696_R	lincRNA:chr10:116814196-116920696 reverse strand	0.50	0.003	0.281

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Olfr936	ENSMUST00000082311	ens olfactory receptor 936 Gene [Source:MGI Symbol;Acc:MGI:3030770] [ENSMUST00000082311]	0.50	0.030	0.477
Defa23	NM_001012307	ref Mus musculus defensin, alpha, 23 (Defa23), mRNA [NM_001012307]	0.50	0.019	0.440
chr15:102994998-102995947_R	chr15:102994998-102995947_R	lincRNA:chr15:102994998-102995947 reverse strand	0.50	0.037	0.497
6330545A04Rik	ENSMUST00000105793	ens RIKEN cDNA 6330545A04 gene Gene [Source:MGI Symbol;Acc:MGI:1923416] [ENSMUST00000105793]	0.50	0.028	0.474
Ctsh	NM_007801	ref Mus musculus cathepsin H (Ctsh), mRNA [NM_007801]	0.50	0.026	0.470
chr12:33606225-33638225_R	chr12:33606225-33638225_R	lincRNA:chr12:33606225-33638225 reverse strand	0.50	0.047	0.515
Lhx6	NM_001083125	ref Mus musculus LIM homeobox protein 6 (Lhx6), transcript variant 2, mRNA [NM_001083125]	0.50	0.019	0.439
ENSMUST00000098602	ENSMUST00000098602	ens RIKEN cDNA 4932431P20 gene Gene [Source:MGI Symbol;Acc:MGI:2149781] [ENSMUST00000098602]	0.50	0.009	0.393
chr5:22801058-22939737_F	chr5:22801058-22939737_F	lincRNA:chr5:22801058-22939737 forward strand	0.49	0.020	0.447
chr8:48476637-48492537_F	chr8:48476637-48492537_F	lincRNA:chr8:48476637-48492537 forward strand	0.49	0.043	0.509
Gm2657	XM_001476278	ref PREDICTED: Mus musculus similar to Ac2-210 (LOC100046479), mRNA [XM_001476278]	0.49	0.009	0.400
chr18:69923410-69965360_R	chr18:69923410-69965360_R	lincRNA:chr18:69923410-69965360 reverse strand	0.49	0.041	0.507
Gm13298	NM_001085530	ref Mus musculus predicted gene 13298 (Gm13298), mRNA [NM_001085530]	0.49	0.039	0.501
Olfr218	NM_001001809	ref Mus musculus olfactory receptor 218 (Olfr218), mRNA [NM_001001809]	0.49	0.047	0.515
Art3	NM_181728	ref Mus musculus ADP-ribosyltransferase 3 (Art3), mRNA [NM_181728]	0.49	0.029	0.477
chr4:8606650-8614031_R	chr4:8606650-8614031_R	lincRNA:chr4:8606650-8614031 reverse strand	0.49	0.008	0.391
chr12:89448550-89461843_R	chr12:89448550-89461843_R	lincRNA:chr12:89448550-89461843 reverse strand	0.49	0.043	0.509
9830001H06Rik	NM_001164663	ref Mus musculus RIKEN cDNA 9830001H06 gene (9830001H06Rik), mRNA [NM_001164663]	0.49	0.011	0.407
LOC100048769	XM_001481206	ref PREDICTED: Mus musculus hypothetical protein LOC100048769 (LOC100048769), mRNA [XM_001481206]	0.49	0.025	0.464
ENSMUST00000101005	ENSMUST00000101005	ens hereditary sensory neuropathy, type II Gene [Source:MGI Symbol;Acc:MGI:3644010] [ENSMUST00000101005]	0.49	0.028	0.476
Lrriq3	NM_028938	ref Mus musculus leucine-rich repeats and IQ motif containing 3 (Lrriq3), mRNA [NM_028938]	0.49	0.036	0.495
Cntnap5a	NM_001077425	ref Mus musculus contactin associated protein-like 5A (Cntnap5a), mRNA [NM_001077425]	0.49	0.015	0.419
chr11:119794849-119803349_R	chr11:119794849-119803349_R	lincRNA:chr11:119794849-119803349 reverse strand	0.49	0.032	0.483
Asb18	NM_139152	ref Mus musculus ankyrin repeat and SOCS box-containing 18 (Asb18), mRNA [NM_139152]	0.49	0.004	0.313
Scn3a	NM_018732	ref Mus musculus sodium channel, voltage-gated, type III, alpha (Scn3a), mRNA [NM_018732]	0.49	0.041	0.505
chr5:124667541-124700029_F	chr5:124667541-124700029_F	lincRNA:chr5:124667541-124700029 forward strand	0.49	0.025	0.464
chr7:66574000-66577193_F	chr7:66574000-66577193_F	lincRNA:chr7:66574000-66577193 forward strand	0.49	0.005	0.354
Sik3	NM_027498	ref Mus musculus SIK family kinase 3 (Sik3), mRNA [NM_027498]	0.49	0.049	0.518

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr6:28161665-28189840_F	chr6:28161665-28189840_F	lincRNA:chr6:28161665-28189840 forward strand	0.49	0.007	0.384
Gm2290	XM_001473057	ref PREDICTED: Mus musculus similar to cyclic nucleotide gated channel beta 1 (LOC100039526), mRNA [XM_001473057]	0.49	0.016	0.426
4930422C21Rik	AK015175	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930422C21 product:unclassifiable, full insert sequence. [AK015175]	0.49	0.041	0.504
Art3	NM_181728	ref Mus musculus ADP-ribosyltransferase 3 (Art3), mRNA [NM_181728]	0.49	0.039	0.500
1700074P13Rik	NM_028550	ref Mus musculus RIKEN cDNA 1700074P13 gene (1700074P13Rik), mRNA [NM_028550]	0.49	0.004	0.318
1700086D15Rik	ENSIMUST00000020855	ens RIKEN cDNA 1700086D15 gene Gene [Source:MGI Symbol;Acc:MGI:1921532] [ENSIMUST00000020855]	0.49	0.015	0.418
Gm13749	NR_027824	ref Mus musculus predicted gene 13749 (Gm13749), non-coding RNA [NR_027824]	0.49	0.035	0.495
chr12:110909258-110913909_F	chr12:110909258-110913909_F	lincRNA:chr12:110909258-110913909 forward strand	0.48	0.013	0.412
LOC634171	ENSIMUST00000103637	ens TRAV4-2 Fragment [Source:UniProtKB/TrEMBL;Acc:Q5R1E7] [ENSIMUST00000103637]	0.48	0.018	0.437
LOC100047343	XM_001478902	ref PREDICTED: Mus musculus hypothetical protein LOC100047343 (LOC100047343), mRNA [XM_001478902]	0.48	0.003	0.290
Gm11680	XM_001477895	ref PREDICTED: Mus musculus hypothetical protein LOC100046870 (LOC100046870), mRNA [XM_001477895]	0.48	0.004	0.325
chr8:54660858-54661952_R	chr8:54660858-54661952_R	lincRNA:chr8:54660858-54661952 reverse strand	0.48	0.039	0.501
Vmn2r3	NM_001104614	ref Mus musculus vomeronasal 2, receptor 3 (Vmn2r3), mRNA [NM_001104614]	0.48	0.023	0.455
Mageb16	NM_028025	ref Mus musculus melanoma antigen family B, 16 (Mageb16), transcript variant 1, mRNA [NM_028025]	0.48	0.016	0.426
chr6:126506134-126506913_R	chr6:126506134-126506913_R	lincRNA:chr6:126506134-126506913 reverse strand	0.48	0.042	0.507
chr14:76912477-76931702_F	chr14:76912477-76931702_F	lincRNA:chr14:76912477-76931702 forward strand	0.48	0.026	0.471
2310058N22Rik	AK009987	gb Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310058N22 product:unclassifiable, full insert sequence. [AK009987]	0.48	0.049	0.519
Cpne4	NM_028719	ref Mus musculus copine IV (Cpne4), mRNA [NM_028719]	0.48	0.043	0.509
chr5:44625083-44634763_F	chr5:44625083-44634763_F	lincRNA:chr5:44625083-44634763 forward strand	0.48	0.017	0.429
chr7:151085617-151100071_R	chr7:151085617-151100071_R	lincRNA:chr7:151085617-151100071 reverse strand	0.48	0.045	0.513
chr2:116796887-116797441_F	chr2:116796887-116797441_F	lincRNA:chr2:116796887-116797441 forward strand	0.48	0.010	0.403
chr9:30805020-30810645_F	chr9:30805020-30810645_F	lincRNA:chr9:30805020-30810645 forward strand	0.48	0.009	0.393
Olfr152	NM_146646	ref Mus musculus olfactory receptor 152 (Olfr152), mRNA [NM_146646]	0.48	0.006	0.369
chr9:61881173-61881351_R	chr9:61881173-61881351_R	lincRNA:chr9:61881173-61881351 reverse strand	0.48	0.020	0.447
Nrl	NM_001136074	ref Mus musculus neural retina leucine zipper gene (Nrl), transcript variant 2, mRNA [NM_001136074]	0.48	0.035	0.495
Ptk2b	NM_001162365	ref Mus musculus PTK2 protein tyrosine kinase 2 beta (Ptk2b), transcript variant 2, mRNA [NM_001162365]	0.48	0.023	0.455

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
5730577I03Rik	NR_033729	ref Mus musculus RIKEN cDNA 5730577I03 gene (5730577I03Rik), non-coding RNA [NR_033729]	0.48	0.028	0.474
chr11:69193341-69193717_F	chr11:69193341-69193717_F	lincRNA:chr11:69193341-69193717 forward strand	0.48	0.025	0.463
A2m	NM_175628	ref Mus musculus alpha-2-macroglobulin (A2m), mRNA [NM_175628]	0.48	0.036	0.495
D7Erttd128e	BG071831	gb H3103F08-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3103F08 3', mRNA sequence [BG071831]	0.48	0.032	0.485
Vmn2r108	NM_001104570	ref Mus musculus vomeronasal 2, receptor 108 (Vmn2r108), mRNA [NM_001104570]	0.48	0.017	0.429
chr6:83841733-83842297_F	chr6:83841733-83842297_F	lincRNA:chr6:83841733-83842297 forward strand	0.48	0.002	0.264
Rpl10l	NM_001162933	ref Mus musculus ribosomal protein L10-like (Rpl10l), mRNA [NM_001162933]	0.48	0.027	0.472
Gm3894	XM_001479038	ref PREDICTED: Mus musculus hypothetical protein LOC100042540 (LOC100042540), mRNA [XM_001479038]	0.48	0.043	0.510
LOC100046065	XM_001476144	ref PREDICTED: Mus musculus hypothetical protein LOC100046065 (LOC100046065), mRNA [XM_001476144]	0.48	0.013	0.412
Npm2	NM_181345	ref Mus musculus nucleophosmin/nucleoplasmin 2 (Npm2), mRNA [NM_181345]	0.48	0.007	0.377
chr7:118248833-118267766_F	chr7:118248833-118267766_F	lincRNA:chr7:118248833-118267766 forward strand	0.48	0.012	0.411
chr3:30064327-30064680_R	chr3:30064327-30064680_R	lincRNA:chr3:30064327-30064680 reverse strand	0.48	0.032	0.483
chr13:28067341-28067814_F	chr13:28067341-28067814_F	lincRNA:chr13:28067341-28067814 forward strand	0.47	0.003	0.299
A330023F24Rik	AK171382	gb Mus musculus B6-derived CD11 +ve dendritic cells cDNA, RIKEN full-length enriched library, clone:F730115K06 product:hypothetical protein, full insert sequence. [AK171382]	0.47	0.024	0.458
chr8:129102060-129109035_R	chr8:129102060-129109035_R	lincRNA:chr8:129102060-129109035 reverse strand	0.47	0.048	0.516
Gm2129	XM_001472592	ref PREDICTED: Mus musculus similar to CG2839-PA (LOC100039272), mRNA [XM_001472592]	0.47	0.016	0.428
Catsperb	NM_173023	ref Mus musculus cation channel, sperm-associated, beta (Catsperb), mRNA [NM_173023]	0.47	0.031	0.480
Tekt3	NM_027660	ref Mus musculus tektin 3 (Tekt3), mRNA [NM_027660]	0.47	0.021	0.449
chr5:108543577-108544158_F	chr5:108543577-108544158_F	lincRNA:chr5:108543577-108544158 forward strand	0.47	0.029	0.477
ENSMUST00000103278	ENSMUST00000103278	Unknown	0.47	0.029	0.477
Ga_x5j8b7w2m1k1-552	XM_913642	ref PREDICTED: Mus musculus similar to olfactory receptor 55 (LOC637849), mRNA [XM_913642]	0.47	0.002	0.266
chr7:107226916-107227672_R	chr7:107226916-107227672_R	lincRNA:chr7:107226916-107227672 reverse strand	0.47	0.038	0.499
LOC100037413	XM_001478421	ref PREDICTED: Mus musculus predicted gene, ENSMUSG00000073810 (ENSMUSG00000073810), mRNA [XM_001478421]	0.47	0.011	0.407
LOC100045552	XM_001474520	ref PREDICTED: Mus musculus hypothetical protein LOC100045552 (LOC100045552), mRNA [XM_001474520]	0.47	0.039	0.500
chr10:96096995-96097589_F	chr10:96096995-96097589_F	lincRNA:chr10:96096995-96097589 forward strand	0.47	0.010	0.401

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
C030009O12Rik	AK140124	gb Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enriched library, clone:B230308O18 product:unclassifiable, full insert sequence. [AK140124]	0.47	0.007	0.372
chr13:103101941-103102362_F	chr13:103101941-103102362_F	lincRNA:chr13:103101941-103102362 forward strand	0.47	0.050	0.519
chr9:65368908-65377592_R	chr9:65368908-65377592_R	lincRNA:chr9:65368908-65377592 reverse strand	0.47	0.041	0.505
chr6:31078802-31079644_R	chr6:31078802-31079644_R	lincRNA:chr6:31078802-31079644 reverse strand	0.47	0.033	0.490
LOC100047377	XM_001478020	ref PREDICTED: Mus musculus hypothetical protein LOC100047377 (LOC100047377), mRNA [XM_001478020]	0.47	0.021	0.449
2700078F05Rik	AK144254	gb Mus musculus 11 days embryo spinal cord cDNA, RIKEN full-length enriched library, clone:G630001L02 product:unclassifiable, full insert sequence. [AK144254]	0.47	0.032	0.484
chrX:50087925-50101700_F	chrX:50087925-50101700_F	lincRNA:chrX:50087925-50101700 forward strand	0.47	0.022	0.452
Axin1	NM_001159598	ref Mus musculus axin 1 (Axin1), transcript variant 1, mRNA [NM_001159598]	0.47	0.031	0.480
chr2:71576218-71603818_R	chr2:71576218-71603818_R	lincRNA:chr2:71576218-71603818 reverse strand	0.47	0.030	0.478
chr3:145313275-145315057_F	chr3:145313275-145315057_F	lincRNA:chr3:145313275-145315057 forward strand	0.47	0.013	0.412
chr10:62812866-62831016_R	chr10:62812866-62831016_R	lincRNA:chr10:62812866-62831016 reverse strand	0.47	0.025	0.467
chr1:133839368-133839762_F	chr1:133839368-133839762_F	lincRNA:chr1:133839368-133839762 forward strand	0.47	0.050	0.520
chr10:39383665-39442690_F	chr10:39383665-39442690_F	lincRNA:chr10:39383665-39442690 forward strand	0.47	0.046	0.514
Myt1l	NM_001093775	ref Mus musculus myelin transcription factor 1-like (Myt1l), transcript variant 1, mRNA [NM_001093775]	0.47	0.013	0.412
Olfr161	NM_146860	ref Mus musculus olfactory receptor 161 (Olfr161), mRNA [NM_146860]	0.47	0.041	0.505
chr6:133054045-133058002_F	chr6:133054045-133058002_F	lincRNA:chr6:133054045-133058002 forward strand	0.47	0.044	0.512
chr5:110097500-110118475_R	chr5:110097500-110118475_R	lincRNA:chr5:110097500-110118475 reverse strand	0.47	0.009	0.393
chr6:31115515-31168433_R	chr6:31115515-31168433_R	lincRNA:chr6:31115515-31168433 reverse strand	0.46	0.016	0.426
chr5:149751979-149808240_R	chr5:149751979-149808240_R	lincRNA:chr5:149751979-149808240 reverse strand	0.46	0.017	0.435
chr3:108763862-108772151_R	chr3:108763862-108772151_R	lincRNA:chr3:108763862-108772151 reverse strand	0.46	0.037	0.498
Ovgp1	NM_007696	ref Mus musculus oviductal glycoprotein 1 (Ovgp1), mRNA [NM_007696]	0.46	0.022	0.452
LOC634206	XM_908868	ref PREDICTED: Mus musculus similar to lgh-1a protein (LOC634206), mRNA [XM_908868]	0.46	0.035	0.495
chr3:87757295-87774970_R	chr3:87757295-87774970_R	lincRNA:chr3:87757295-87774970 reverse strand	0.46	0.022	0.452
ENSMUST00000089922	ENSMUST00000089922	ens splicing factor, arginine/serine-rich 11 Gene [Source:MGI (curated);Acc:MGI:1916457] [ENSMUST00000089922]	0.46	0.046	0.514
chr14:115443612-115445950_F	chr14:115443612-115445950_F	lincRNA:chr14:115443612-115445950 forward strand	0.46	0.044	0.512
chr5:22887983-22939658_R	chr5:22887983-22939658_R	lincRNA:chr5:22887983-22939658 reverse strand	0.46	0.047	0.515

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr6:30983012-31009987_R	chr6:30983012-31009987_R	lincRNA:chr6:30983012-31009987 reverse strand	0.46	0.015	0.423
4932442L08Rik	XM_904867	ref PREDICTED: Mus musculus similar to Putative uncharacterized protein CXorf58 (LOC631145), mRNA [XM_904867]	0.46	0.039	0.501
Il5	NM_010558	ref Mus musculus interleukin 5 (Il5), mRNA [NM_010558]	0.46	0.041	0.507
Cela1	NM_033612	ref Mus musculus chymotrypsin-like elastase family, member 1 (Cela1), mRNA [NM_033612]	0.46	0.021	0.447
LOC639470	XM_915912	ref PREDICTED: Mus musculus similar to nucleoporin 85 (LOC639470), mRNA [XM_915912]	0.46	0.035	0.495
chr8:49915104-49915704_R	chr8:49915104-49915704_R	lincRNA:chr8:49915104-49915704 reverse strand	0.46	0.007	0.377
1700030J22Rik	NM_027103	ref Mus musculus RIKEN cDNA 1700030J22 gene (1700030J22Rik), mRNA [NM_027103]	0.46	0.022	0.453
chr17:87674225-87682154_R	chr17:87674225-87682154_R	lincRNA:chr17:87674225-87682154 reverse strand	0.46	0.021	0.450
chr6:82608223-82669023_F	chr6:82608223-82669023_F	lincRNA:chr6:82608223-82669023 forward strand	0.46	0.027	0.471
Uba1	NM_009457	ref Mus musculus ubiquitin-like modifier activating enzyme 1 (Uba1), transcript variant 1, mRNA [NM_009457]	0.46	0.023	0.456
Gm6566	XM_982004	ref PREDICTED: Mus musculus predicted gene, EG625237 (EG625237), mRNA [XM_982004]	0.46	0.016	0.427
chr4:131738732-131739264_F	chr4:131738732-131739264_F	lincRNA:chr4:131738732-131739264 forward strand	0.46	0.021	0.450
D930001B02	AK147582	gb Mus musculus adult male brain UNDEFINED_CELL_LINE cDNA, RIKEN full-length enriched library, clone:M5C1083B17 product:unclassifiable, full insert sequence. [AK147582]	0.46	0.030	0.477
chr7:132218864-132329172_F	chr7:132218864-132329172_F	lincRNA:chr7:132218864-132329172 forward strand	0.46	0.047	0.516
Foxo3	NM_019740	ref Mus musculus forkhead box O3 (Foxo3), mRNA [NM_019740]	0.46	0.004	0.330
chr11:114686321-114705990_F	chr11:114686321-114705990_F	lincRNA:chr11:114686321-114705990 forward strand	0.46	0.041	0.505
chrX:20555593-20591971_R	chrX:20555593-20591971_R	lincRNA:chrX:20555593-20591971 reverse strand	0.46	0.041	0.506
chr5:54295266-54307541_F	chr5:54295266-54307541_F	lincRNA:chr5:54295266-54307541 forward strand	0.46	0.034	0.493
Tmem30c	NM_027651	ref Mus musculus transmembrane protein 30C (Tmem30c), mRNA [NM_027651]	0.46	0.021	0.449
chr19:14911511-14911831_R	chr19:14911511-14911831_R	lincRNA:chr19:14911511-14911831 reverse strand	0.46	0.019	0.439
chr18:38776580-38841080_R	chr18:38776580-38841080_R	lincRNA:chr18:38776580-38841080 reverse strand	0.46	0.047	0.515
chr3:30059174-30060808_R	chr3:30059174-30060808_R	lincRNA:chr3:30059174-30060808 reverse strand	0.46	0.009	0.398
Vmn2r90	NM_001104539	ref Mus musculus vomeronasal 2, receptor 90 (Vmn2r90), mRNA [NM_001104539]	0.46	0.032	0.485
ENSMUST00000063789	ENSMUST00000063789	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q8CDH0] [ENSMUST00000063789]	0.46	0.021	0.450
Olfr151	NM_207664	ref Mus musculus olfactory receptor 151 (Olfr151), mRNA [NM_207664]	0.45	0.033	0.487
Rev1	NM_019570	ref Mus musculus REV1 homolog (S. cerevisiae) (Rev1), mRNA [NM_019570]	0.45	0.048	0.518

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Mettl7a2-Higd1c	NM_001024672	ref Mus musculus Mettl7a2-Higd1c readthrough transcript (Mettl7a2-Higd1c), mRNA [NM_001024672]	0.45	0.032	0.485
Hist1h2bg	NM_178196	ref Mus musculus histone cluster 1, H2bg (Hist1h2bg), mRNA [NM_178196]	0.45	0.020	0.443
AA386476	XM_620653	ref PREDICTED: Mus musculus hypothetical protein LOC546058 (LOC546058), mRNA [XM_620653]	0.45	0.008	0.391
Zfp369	NM_178364	ref Mus musculus zinc finger protein 369 (Zfp369), mRNA [NM_178364]	0.45	0.021	0.448
chr1:138528250-138538250_R	chr1:138528250-138538250_R	lincRNA:chr1:138528250-138538250 reverse strand	0.45	0.032	0.485
Fbln5	NM_011812	ref Mus musculus fibulin 5 (Fbln5), mRNA [NM_011812]	0.45	0.033	0.489
chr4:131734714-131742542_R	chr4:131734714-131742542_R	lincRNA:chr4:131734714-131742542 reverse strand	0.45	0.034	0.492
Triobp	NM_001039155	ref Mus musculus TRIO and F-actin binding protein (Triobp), transcript variant 4, mRNA [NM_001039155]	0.45	0.014	0.418
chr14:55317199-55317670_R	chr14:55317199-55317670_R	lincRNA:chr14:55317199-55317670 reverse strand	0.45	0.030	0.477
Gm7659	XM_977275	ref PREDICTED: Mus musculus predicted gene, EG665490 (EG665490), mRNA [XM_977275]	0.45	0.028	0.476
chr9:88333945-88342370_R	chr9:88333945-88342370_R	lincRNA:chr9:88333945-88342370 reverse strand	0.45	0.024	0.459
4933436E23Rik	AK017079	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933436E23 product:unclassifiable, full insert sequence. [AK017079]	0.45	0.024	0.459
C80360	C80360	gb C80360 Mouse 3.5-dpc blastocyst cDNA Mus musculus cDNA clone J0080C10 3', mRNA sequence [C80360]	0.45	0.022	0.452
Epb4.1	NM_183428	ref Mus musculus erythrocyte protein band 4.1 (Epb4.1), transcript variant 1, mRNA [NM_183428]	0.45	0.023	0.455
chr1:167215985-167216196_F	chr1:167215985-167216196_F	lincRNA:chr1:167215985-167216196 forward strand	0.45	0.037	0.496
chr6:90848183-90861277_R	chr6:90848183-90861277_R	lincRNA:chr6:90848183-90861277 reverse strand	0.45	0.008	0.388
Abhd4	NM_134076	ref Mus musculus abhydrolase domain containing 4 (Abhd4), mRNA [NM_134076]	0.45	0.033	0.490
Gm5977	XR_004811	ref PREDICTED: Mus musculus similar to neural visinin-like Ca2+-binding protein type 3 (LOC675641), misc RNA [XR_004811]	0.45	0.037	0.497
Gad1	NM_008077	ref Mus musculus glutamic acid decarboxylase 1 (Gad1), mRNA [NM_008077]	0.45	0.042	0.509
Baz1a	NM_013815	ref Mus musculus bromodomain adjacent to zinc finger domain 1A (Baz1a), mRNA [NM_013815]	0.45	0.039	0.500
chr10:116814196-116920696_F	chr10:116814196-116920696_F	lincRNA:chr10:116814196-116920696 forward strand	0.45	0.028	0.476
chr18:83087114-83122014_R	chr18:83087114-83122014_R	lincRNA:chr18:83087114-83122014 reverse strand	0.45	0.006	0.356
chr18:47690173-47697423_F	chr18:47690173-47697423_F	lincRNA:chr18:47690173-47697423 forward strand	0.45	0.038	0.499
chr14:105987405-106063477_F	chr14:105987405-106063477_F	lincRNA:chr14:105987405-106063477 forward strand	0.45	0.018	0.437
chr3:84617945-84618316_R	chr3:84617945-84618316_R	lincRNA:chr3:84617945-84618316 reverse strand	0.45	0.014	0.418
Satl1	NM_028655	ref Mus musculus spermidine/spermine N1-acetyl transferase-like 1 (Satl1), mRNA [NM_028655]	0.45	0.044	0.512
Lao1	NM_133892	ref Mus musculus L-amino acid oxidase 1 (Lao1), mRNA [NM_133892]	0.45	0.021	0.449

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr6:31115515-31168433_R	chr6:31115515-31168433_R	lincRNA:chr6:31115515-31168433 reverse strand	0.45	0.032	0.485
Lrit1	NM_146245	ref Mus musculus leucine-rich repeat, immunoglobulin-like and transmembrane domains 1 (Lrit1), mRNA [NM_146245]	0.45	0.024	0.459
Cyp2w1	NM_001160265	ref Mus musculus cytochrome P450, family 2, subfamily w, polypeptide 1 (Cyp2w1), mRNA [NM_001160265]	0.45	0.046	0.513
Synpo2	NM_080451	ref Mus musculus synaptopodin 2 (Synpo2), mRNA [NM_080451]	0.45	0.007	0.384
E230012P03	AK054025	gb Mus musculus 2 days pregnant adult female oviduct cDNA, RIKEN full-length enriched library, clone:E230012P03 product:hypothetical protein, full insert sequence. [AK054025]	0.45	0.036	0.496
chr16:40657997-40658456_R	chr16:40657997-40658456_R	lincRNA:chr16:40657997-40658456 reverse strand	0.45	0.048	0.517
chr1:64686823-64728598_F	chr1:64686823-64728598_F	lincRNA:chr1:64686823-64728598 forward strand	0.45	0.037	0.498
chr5:75186625-75186910_F	chr5:75186625-75186910_F	lincRNA:chr5:75186625-75186910 forward strand	0.44	0.017	0.433
chr17:38132217-38157667_F	chr17:38132217-38157667_F	lincRNA:chr17:38132217-38157667 forward strand	0.44	0.048	0.518
Wfikkn2	NM_181819	ref Mus musculus WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 (Wfikkn2), mRNA [NM_181819]	0.44	0.003	0.290
chr5:110182844-110228345_R	chr5:110182844-110228345_R	lincRNA:chr5:110182844-110228345 reverse strand	0.44	0.046	0.513
2010001E11Rik	NM_001163503	ref Mus musculus RIKEN cDNA 2010001E11 gene (2010001E11Rik), mRNA [NM_001163503]	0.44	0.029	0.477
chr4:119923882-119924244_R	chr4:119923882-119924244_R	lincRNA:chr4:119923882-119924244 reverse strand	0.44	0.018	0.435
Herc1	NM_145617	ref Mus musculus hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain and RCC1 (CHC1)-like domain (RLD) 1 (Herc1), mRNA [NM_145617]	0.44	0.036	0.495
chr5:110964854-110965222_F	chr5:110964854-110965222_F	lincRNA:chr5:110964854-110965222 forward strand	0.44	0.040	0.502
Gtf2ird2	NM_053266	ref Mus musculus GTF2I repeat domain containing 2 (Gtf2ird2), mRNA [NM_053266]	0.44	0.011	0.406
chr11:33414450-33450750_F	chr11:33414450-33450750_F	lincRNA:chr11:33414450-33450750 forward strand	0.44	0.048	0.518
Tnc	NM_011607	ref Mus musculus tenascin C (Tnc), mRNA [NM_011607]	0.44	0.042	0.508
ENSMUST00000036223	ENSMUST00000036223	ens SH3 domain containing ring finger 3 Gene [Source:MGI (curated);Acc:MGI:2444637] [ENSMUST00000036223]	0.44	0.009	0.394
chr4:124127144-124334840_R	chr4:124127144-124334840_R	lincRNA:chr4:124127144-124334840 reverse strand	0.44	0.050	0.520
chr18:69923410-69965360_R	chr18:69923410-69965360_R	lincRNA:chr18:69923410-69965360 reverse strand	0.44	0.032	0.483
Gm9487	XR_032777	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC675823), misc RNA [XR_032777]	0.44	0.018	0.435
chr5:74487385-74497428_R	chr5:74487385-74497428_R	lincRNA:chr5:74487385-74497428 reverse strand	0.44	0.041	0.505
Cd247	NM_031162	ref Mus musculus CD247 antigen (Cd247), transcript variant eta, mRNA [NM_031162]	0.44	0.037	0.497
Gpr37	NM_010338	ref Mus musculus G protein-coupled receptor 37 (Gpr37), mRNA [NM_010338]	0.44	0.050	0.519

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Anks4b	NM_028085	ref Mus musculus ankyrin repeat and sterile alpha motif domain containing 4B (Anks4b), mRNA [NM_028085]	0.44	0.048	0.516
Foxi2	NM_183193	ref Mus musculus forkhead box I2 (Foxi2), mRNA [NM_183193]	0.44	0.015	0.421
4930474N05Rik	NM_175008	ref Mus musculus RIKEN cDNA 4930474N05 gene (4930474N05Rik), mRNA [NM_175008]	0.44	0.023	0.456
Kidins220	NM_001081378	ref Mus musculus kinase D-interacting substrate 220 (Kidins220), mRNA [NM_001081378]	0.44	0.038	0.499
LOC676827	XR_031136	ref PREDICTED: Mus musculus similar to farnesyl pyrophosphate synthase (LOC676827), misc RNA [XR_031136]	0.44	0.043	0.509
chr5:104936417-104984892_F	chr5:104936417-104984892_F	lincRNA:chr5:104936417-104984892 forward strand	0.44	0.021	0.450
ENSMUST00000120532	ENSMUST00000120532	ens histone cell cycle regulation defective homolog A (S. cerevisiae) Gene [Source:MGI (curated);Acc:MGI:99430] [ENSMUST00000120532]	0.44	0.033	0.488
LOC674345	XR_030704	ref PREDICTED: Mus musculus similar to Sorting nexin 4 (LOC674345), misc RNA [XR_030704]	0.44	0.014	0.418
chr15:10697243-10699102_F	chr15:10697243-10699102_F	lincRNA:chr15:10697243-10699102 forward strand	0.43	0.020	0.447
Chrd	NM_009893	ref Mus musculus chordin (Chrd), mRNA [NM_009893]	0.43	0.036	0.495
chr10:39405900-39406539_R	chr10:39405900-39406539_R	lincRNA:chr10:39405900-39406539 reverse strand	0.43	0.012	0.408
chr2:156654675-156665430_R	chr2:156654675-156665430_R	lincRNA:chr2:156654675-156665430 reverse strand	0.43	0.028	0.476
LOC100046302	XM_001475985	ref PREDICTED: Mus musculus similar to Protein disulfide isomerase associated 6 (LOC100046302), mRNA [XM_001475985]	0.43	0.010	0.400
Itrip1	NM_001001738	ref Mus musculus inositol 1,4,5-triphosphate receptor interacting protein (Itrip1), mRNA [NM_001001738]	0.43	0.014	0.418
Mcm9	NM_027830	ref Mus musculus minichromosome maintenance complex component 9 (Mcm9), mRNA [NM_027830]	0.43	0.034	0.491
Tmprss2	NM_015775	ref Mus musculus transmembrane protease, serine 2 (Tmprss2), mRNA [NM_015775]	0.43	0.049	0.519
Fibcd1	NM_178887	ref Mus musculus fibrinogen C domain containing 1 (Fibcd1), mRNA [NM_178887]	0.43	0.011	0.407
Fam71a	NM_001109759	ref Mus musculus family with sequence similarity 71, member A (Fam71a), mRNA [NM_001109759]	0.43	0.024	0.461
Gm3936	XM_001478524	ref PREDICTED: Mus musculus hypothetical protein LOC100042628 (LOC100042628), mRNA [XM_001478524]	0.43	0.041	0.505
Bglap	NM_001037939	ref Mus musculus bone gamma carboxylglutamate protein (Bglap), transcript variant 2, mRNA [NM_001037939]	0.43	0.048	0.516
Exoc6b	ENSMUST00000046334	ens exocyst complex component 6B Gene [Source:MGI Symbol;Acc:MGI:1923164] [ENSMUST00000046334]	0.43	0.012	0.412
Apol6	NM_001163621	ref Mus musculus apolipoprotein L 6 (Apol6), transcript variant 2, mRNA [NM_001163621]	0.43	0.031	0.482
ENSMUST00000081475	ENSMUST00000081475	ens collagen, type XII, alpha 1 Gene [Source:MGI (curated);Acc:MGI:88448] [ENSMUST00000081475]	0.43	0.032	0.485
chr14:78957377-78962977_R	chr14:78957377-78962977_R	lincRNA:chr14:78957377-78962977 reverse strand	0.43	0.011	0.406
Tmem190	NM_030028	ref Mus musculus transmembrane protein 190 (Tmem190), mRNA [NM_030028]	0.43	0.027	0.471
ENSMUST00000101060	ENSMUST00000101060	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UQ53] [ENSMUST00000101060]	0.43	0.019	0.439

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000109629	ENSMUST00000109629	ens Novel protein, possible ortholog of human growth differentiation factor 5 opposite strand GDF5OS [Source:UniProtKB/TrEMBL;Acc:A6PWY0] [ENSMUST00000109629]	0.43	0.038	0.499
Gm2381	XM_001472741	ref PREDICTED: Mus musculus similar to Predicted gene, EG434179 (LOC100039706), mRNA [XM_001472741]	0.43	0.028	0.476
Gm2312	XM_001473116	ref PREDICTED: Mus musculus similar to ZK84.1 (LOC100039562), mRNA [XM_001473116]	0.43	0.049	0.519
Nfx1	NM_023739	ref Mus musculus nuclear transcription factor, X-box binding 1 (Nfx1), mRNA [NM_023739]	0.43	0.047	0.515
Mycs	NM_010850	ref Mus musculus myc-like oncogene, s-myc protein (Mycs), mRNA [NM_010850]	0.43	0.049	0.519
chr19:57426515-57435165_R	chr19:57426515-57435165_R	lincRNA:chr19:57426515-57435165 reverse strand	0.43	0.050	0.520
Adams8	NM_013906	ref Mus musculus a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 8 (Adams8), mRNA [NM_013906]	0.43	0.037	0.498
chr8:111669528-111771285_R	chr8:111669528-111771285_R	lincRNA:chr8:111669528-111771285 reverse strand	0.43	0.025	0.466
chr1:133839368-133839762_F	chr1:133839368-133839762_F	lincRNA:chr1:133839368-133839762 forward strand	0.43	0.009	0.398
B130019D13Rik	AK045009	gb Mus musculus 9.5 days embryo parthenogenote cDNA, RIKEN full-length enriched library, clone:B130019D13 product:unclassifiable, full insert sequence. [AK045009]	0.43	0.026	0.470
Cd320	NM_019421	ref Mus musculus CD320 antigen (Cd320), mRNA [NM_019421]	0.42	0.040	0.504
chr2:65240793-65292293_R	chr2:65240793-65292293_R	lincRNA:chr2:65240793-65292293 reverse strand	0.42	0.047	0.514
chr15:74320784-74321384_F	chr15:74320784-74321384_F	lincRNA:chr15:74320784-74321384 forward strand	0.42	0.020	0.443
ENSMUST00000104970	ENSMUST00000104970	ens LOC100049166 protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q923D0] [ENSMUST00000104970]	0.42	0.046	0.513
chr1:182180931-182186106_F	chr1:182180931-182186106_F	lincRNA:chr1:182180931-182186106 forward strand	0.42	0.011	0.406
A530041M06Rik	AK040901	gb Mus musculus adult male aorta and vein cDNA, RIKEN full-length enriched library, clone:A530041M06 product:unclassifiable, full insert sequence. [AK040901]	0.42	0.011	0.406
A630075F10Rik	NR_033632	ref Mus musculus RIKEN cDNA A630075F10 gene (A630075F10Rik), non-coding RNA [NR_033632]	0.42	0.014	0.414
chr17:88466300-88495175_F	chr17:88466300-88495175_F	lincRNA:chr17:88466300-88495175 forward strand	0.42	0.035	0.495
ENSMUST00000101281	ENSMUST00000101281	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UW49] [ENSMUST00000101281]	0.42	0.018	0.437
Gm7049	XR_032791	ref PREDICTED: Mus musculus similar to Mod1 protein (LOC630951), misc RNA [XR_032791]	0.42	0.026	0.470
TC1719062	TC1719062	Unknown	0.42	0.034	0.491
Gltpd2	NM_146020	ref Mus musculus glycolipid transfer protein domain containing 2 (Gltpd2), mRNA [NM_146020]	0.42	0.037	0.497
chr10:116814196-116920696_R	chr10:116814196-116920696_R	lincRNA:chr10:116814196-116920696 reverse strand	0.42	0.050	0.519
chr17:13020750-13033750_R	chr17:13020750-13033750_R	lincRNA:chr17:13020750-13033750 reverse strand	0.42	0.047	0.515
BC005537	NM_024473	ref Mus musculus cDNA sequence BC005537 (BC005537), mRNA [NM_024473]	0.42	0.039	0.499

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Fgf3	NM_008007	ref Mus musculus fibroblast growth factor 3 (Fgf3), mRNA [NM_008007]	0.42	0.025	0.466
Adam28	NM_183366	ref Mus musculus a disintegrin and metallopeptidase domain 28 (Adam28), transcript variant 2, mRNA [NM_183366]	0.42	0.038	0.499
Csf3	NM_009971	ref Mus musculus colony stimulating factor 3 (granulocyte) (Csf3), mRNA [NM_009971]	0.42	0.038	0.498
Olfir323	NM_146376	ref Mus musculus olfactory receptor 323 (Olfir323), mRNA [NM_146376]	0.42	0.024	0.458
chr3:145270309-145270779_F	chr3:145270309-145270779_F	lincRNA:chr3:145270309-145270779 forward strand	0.42	0.029	0.477
chr11:59215375-59215935_R	chr11:59215375-59215935_R	lincRNA:chr11:59215375-59215935 reverse strand	0.42	0.041	0.507
Hc	NM_010406	ref Mus musculus hemolytic complement (Hc), mRNA [NM_010406]	0.42	0.004	0.320
GalntI4	NM_173739	ref Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase-like 4 (GalntI4), mRNA [NM_173739]	0.42	0.032	0.485
ENSMUST00000074481	ENSMUST00000074481	Unknown	0.42	0.035	0.494
chr8:18895366-18925423_R	chr8:18895366-18925423_R	lincRNA:chr8:18895366-18925423 reverse strand	0.42	0.030	0.477
ENSMUST00000098232	ENSMUST00000098232	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UTS3] [ENSMUST00000098232]	0.42	0.031	0.482
Cd47	NM_010581	ref Mus musculus CD47 antigen (Rh-related antigen, integrin-associated signal transducer) (Cd47), mRNA [NM_010581]	0.42	0.029	0.477
Galnt14	NM_027864	ref Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 14 (Galnt14), mRNA [NM_027864]	0.42	0.032	0.484
Nek10	NM_001034865	ref Mus musculus NIMA (never in mitosis gene a)-related kinase 10 (Nek10), mRNA [NM_001034865]	0.42	0.019	0.439
Asap1	NM_010026	ref Mus musculus ArfGAP with SH# domain, ankyrin repeat and PH domain1 (Asap1), mRNA [NM_010026]	0.42	0.031	0.480
chr17:79042382-79052046_F	chr17:79042382-79052046_F	lincRNA:chr17:79042382-79052046 forward strand	0.42	0.027	0.472
Sh3bp1	NM_009164	ref Mus musculus SH3-domain binding protein 1 (Sh3bp1), mRNA [NM_009164]	0.42	0.014	0.416
5330406M23Rik	AK017236	gb Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library, clone:5330406M23 product:unclassifiable, full insert sequence. [AK017236]	0.42	0.035	0.495
Olfir1038-ps	NM_147013	ref Mus musculus olfactory receptor 1038, pseudogene (Olfir1038-ps), mRNA [NM_147013]	0.42	0.010	0.405
chr6:117528735-117562588_R	chr6:117528735-117562588_R	lincRNA:chr6:117528735-117562588 reverse strand	0.42	0.045	0.513
chr9:82991830-82999937_F	chr9:82991830-82999937_F	lincRNA:chr9:82991830-82999937 forward strand	0.42	0.027	0.471
Plekhg4	NM_001081333	ref Mus musculus pleckstrin homology domain containing, family G (with RhoGef domain) member 4 (Plekhg4), mRNA [NM_001081333]	0.42	0.006	0.369
chr10:94848446-94874121_F	chr10:94848446-94874121_F	lincRNA:chr10:94848446-94874121 forward strand	0.42	0.025	0.463
chr6:90848183-90861277_R	chr6:90848183-90861277_R	lincRNA:chr6:90848183-90861277 reverse strand	0.42	0.019	0.439

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Vmn2r91	NM_001104540	ref Mus musculus vomeronasal 2, receptor 91 (Vmn2r91), mRNA [NM_001104540]	0.42	0.038	0.499
LOC100044612	XM_001472707	ref PREDICTED: Mus musculus similar to exportin, tRNA (nuclear export receptor for tRNAs) (LOC100044612), mRNA [XM_001472707]	0.41	0.031	0.482
Ly75	NM_013825	ref Mus musculus lymphocyte antigen 75 (Ly75), mRNA [NM_013825]	0.41	0.041	0.506
chr9:36509939-36515389_F	chr9:36509939-36515389_F	lincRNA:chr9:36509939-36515389 forward strand	0.41	0.045	0.513
chr17:38132217-38157667_R	chr17:38132217-38157667_R	lincRNA:chr17:38132217-38157667 reverse strand	0.41	0.032	0.484
chr2:71585563-71588257_R	chr2:71585563-71588257_R	lincRNA:chr2:71585563-71588257 reverse strand	0.41	0.012	0.409
ENSMUST00000108084	ENSMUST00000108084	ens androgen binding protein beta Gene [Source:MGI (curated);Acc:MGI:87863] [ENSMUST00000108084]	0.41	0.036	0.495
chr8:74473445-74496948_R	chr8:74473445-74496948_R	lincRNA:chr8:74473445-74496948 reverse strand	0.41	0.014	0.414
Sdcbp2	NM_145535	ref Mus musculus syndecan binding protein (syntenin) 2 (Sdcbp2), mRNA [NM_145535]	0.41	0.048	0.516
LOC100045524	XR_031754	ref PREDICTED: Mus musculus similar to RNP particle component (LOC100045524), misc RNA [XR_031754]	0.41	0.013	0.412
Serpina4-ps1	BC031891	gb Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 4, pseudogene 1, mRNA (cDNA clone IMAGE:5123840). [BC031891]	0.41	0.014	0.418
chr13:28477490-28985604_F	chr13:28477490-28985604_F	lincRNA:chr13:28477490-28985604 forward strand	0.41	0.037	0.496
Sag	NM_009118	ref Mus musculus retinal S-antigen (Sag), mRNA [NM_009118]	0.41	0.042	0.508
chr13:94185501-94185936_F	chr13:94185501-94185936_F	lincRNA:chr13:94185501-94185936 forward strand	0.41	0.033	0.489
chr3:41143423-41359623_F	chr3:41143423-41359623_F	lincRNA:chr3:41143423-41359623 forward strand	0.41	0.040	0.501
Per3	NM_011067	ref Mus musculus period homolog 3 (Drosophila) (Per3), mRNA [NM_011067]	0.41	0.034	0.491
chr18:46646048-46659873_R	chr18:46646048-46659873_R	lincRNA:chr18:46646048-46659873 reverse strand	0.41	0.026	0.470
chr6:120670699-120677449_F	chr6:120670699-120677449_F	lincRNA:chr6:120670699-120677449 forward strand	0.41	0.046	0.513
Dpyd	NM_170778	ref Mus musculus dihydropyrimidine dehydrogenase (Dpyd), mRNA [NM_170778]	0.41	0.050	0.520
chr1:72297489-72298058_R	chr1:72297489-72298058_R	lincRNA:chr1:72297489-72298058 reverse strand	0.41	0.037	0.496
chr4:140609589-140614789_F	chr4:140609589-140614789_F	lincRNA:chr4:140609589-140614789 forward strand	0.41	0.006	0.369
ENSMUST00000110220	ENSMUST00000110220	ens tubulin tyrosine ligase-like family, member 5 Gene [Source:MGI (curated);Acc:MGI:2443657] [ENSMUST00000110220]	0.41	0.010	0.400
ENSMUST00000100384	ENSMUST00000100384	ens nebullette Gene [Source:MGI (curated);Acc:MGI:1921353] [ENSMUST00000100384]	0.41	0.014	0.418
chr1:84947500-85045150_R	chr1:84947500-85045150_R	lincRNA:chr1:84947500-85045150 reverse strand	0.41	0.039	0.500
chr8:18895366-18925423_F	chr8:18895366-18925423_F	lincRNA:chr8:18895366-18925423 forward strand	0.41	0.003	0.303
Lce1g	NM_025413	ref Mus musculus late cornified envelope 1G (Lce1g), mRNA [NM_025413]	0.41	0.041	0.505
Gm8780	XM_992017	ref PREDICTED: Mus musculus predicted gene, EG667718 (EG667718), mRNA [XM_992017]	0.41	0.011	0.407

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr10:24269165-24276690_F	chr10:24269165-24276690_F	lincRNA:chr10:24269165-24276690 forward strand	0.41	0.017	0.429
chr5:106982442-107045717_R	chr5:106982442-107045717_R	lincRNA:chr5:106982442-107045717 reverse strand	0.41	0.035	0.494
Brd7	ENSMUST00000034085	ens bromodomain containing 7 Gene [Source:MGI (curated);Acc:MGI:1349766] [ENSMUST00000034085]	0.41	0.025	0.467
chr4:101010948-101032148_F	chr4:101010948-101032148_F	lincRNA:chr4:101010948-101032148 forward strand	0.41	0.035	0.494
Raet1c	NM_009018	ref Mus musculus retinoic acid early transcript gamma (Raet1c), mRNA [NM_009018]	0.41	0.040	0.501
chr11:97457180-97487074_F	chr11:97457180-97487074_F	lincRNA:chr11:97457180-97487074 forward strand	0.41	0.024	0.463
Olf272	NM_146839	ref Mus musculus olfactory receptor 272 (Olf272), mRNA [NM_146839]	0.41	0.026	0.470
chr9:58301467-58323783_F	chr9:58301467-58323783_F	lincRNA:chr9:58301467-58323783 forward strand	0.41	0.040	0.502
Slc39a5	NM_028051	ref Mus musculus solute carrier family 39 (metal ion transporter), member 5 (Slc39a5), transcript variant 1, mRNA [NM_028051]	0.41	0.046	0.513
ENSMUST00000060651	ENSMUST00000060651	ens claudin 7 Gene [Source:MGI (curated);Acc:MGI:1859285] [ENSMUST00000060651]	0.41	0.023	0.457
Gm9804	ENSMUST00000056234	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q8BV68] [ENSMUST00000056234]	0.41	0.020	0.446
ENSMUST00000058494	ENSMUST00000058494	ens RIKEN cDNA 5830453K13 gene Gene [Source:MGI Symbol;Acc:MGI:1923326] [ENSMUST00000058494]	0.41	0.009	0.400
chr8:44232164-44266991_R	chr8:44232164-44266991_R	lincRNA:chr8:44232164-44266991 reverse strand	0.41	0.025	0.463
chr3:95443575-95462543_R	chr3:95443575-95462543_R	lincRNA:chr3:95443575-95462543 reverse strand	0.41	0.023	0.456
AB041803	XR_035177	ref PREDICTED: Mus musculus cDNA sequence AB041803 (AB041803), misc RNA [XR_035177]	0.41	0.046	0.514
4930583H14Rik	NM_026358	ref Mus musculus RIKEN cDNA 4930583H14 gene (4930583H14Rik), transcript variant 1, mRNA [NM_026358]	0.41	0.034	0.493
Ppm1b	NM_001159497	ref Mus musculus protein phosphatase 1B, magnesium dependent, beta isoform (Ppm1b), transcript variant 3, mRNA [NM_001159497]	0.41	0.041	0.506
chr14:43418592-43428090_F	chr14:43418592-43428090_F	lincRNA:chr14:43418592-43428090 forward strand	0.41	0.030	0.477
LOC100046038	XM_001475445	ref PREDICTED: Mus musculus similar to sphingomyelin phosphodiesterase 3, neutral membrane (LOC100046038), mRNA [XM_001475445]	0.41	0.047	0.515
Arih1	NM_019927	ref Mus musculus ariadne ubiquitin-conjugating enzyme E2 binding protein homolog 1 (Drosophila) (Arih1), mRNA [NM_019927]	0.40	0.014	0.414
LOC100046546	XR_032715	ref PREDICTED: Mus musculus similar to IgM (kappa)light-chain (LOC100046546), misc RNA [XR_032715]	0.40	0.038	0.499
chr12:50490638-50508093_F	chr12:50490638-50508093_F	lincRNA:chr12:50490638-50508093 forward strand	0.40	0.029	0.477
Lcat	NM_008490	ref Mus musculus lecithin cholesterol acyltransferase (Lcat), mRNA [NM_008490]	0.40	0.012	0.412
chr13:112717680-112733330_F	chr13:112717680-112733330_F	lincRNA:chr13:112717680-112733330 forward strand	0.40	0.050	0.519
LOC631360	XM_905140	ref PREDICTED: Mus musculus similar to V2r2 protein (LOC631360), mRNA [XM_905140]	0.40	0.036	0.495

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr4:141100989-141106639_R	chr4:141100989-141106639_R	lincRNA:chr4:141100989-141106639 reverse strand	0.40	0.011	0.407
chr14:65433420-65434061_R	chr14:65433420-65434061_R	lincRNA:chr14:65433420-65434061 reverse strand	0.40	0.033	0.487
chr1:40113912-40114565_R	chr1:40113912-40114565_R	lincRNA:chr1:40113912-40114565 reverse strand	0.40	0.035	0.494
Por	NM_008898	ref Mus musculus P450 (cytochrome) oxidoreductase (Por), mRNA [NM_008898]	0.40	0.021	0.447
chr14:21437920-21464655_F	chr14:21437920-21464655_F	lincRNA:chr14:21437920-21464655 forward strand	0.40	0.049	0.519
Gstm1	NM_010358	ref Mus musculus glutathione S-transferase, mu 1 (Gstm1), mRNA [NM_010358]	0.40	0.032	0.486
Abca15	NM_177213	ref Mus musculus ATP-binding cassette, sub-family A (ABC1), member 15 (Abca15), mRNA [NM_177213]	0.40	0.046	0.513
Tmc6	NM_145439	ref Mus musculus transmembrane channel-like gene family 6 (Tmc6), transcript variant 1, mRNA [NM_145439]	0.40	0.039	0.501
chr6:86477309-86537554_R	chr6:86477309-86537554_R	lincRNA:chr6:86477309-86537554 reverse strand	0.40	0.016	0.428
LOC100047512	XM_001478308	ref PREDICTED: Mus musculus hypothetical protein LOC100047512 (LOC100047512), mRNA [XM_001478308]	0.40	0.028	0.474
Plcd4	NM_148937	ref Mus musculus phospholipase C, delta 4 (Plcd4), transcript variant 2, mRNA [NM_148937]	0.40	0.048	0.517
Zkscan17	NM_172941	ref Mus musculus zinc finger with KRAB and SCAN domains 17 (Zkscan17), transcript variant 1, mRNA [NM_172941]	0.40	0.046	0.513
Wfikkn2	NM_181819	ref Mus musculus WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 (Wfikkn2), mRNA [NM_181819]	0.40	0.016	0.425
chr1:186560855-186563399_F	chr1:186560855-186563399_F	lincRNA:chr1:186560855-186563399 forward strand	0.40	0.040	0.504
chrX:91668178-91668700_R	chrX:91668178-91668700_R	lincRNA:chrX:91668178-91668700 reverse strand	0.40	0.032	0.485
chr4:88745770-88774130_R	chr4:88745770-88774130_R	lincRNA:chr4:88745770-88774130 reverse strand	0.40	0.031	0.482
Gm6249	XM_896571	ref PREDICTED: Mus musculus predicted gene, EG621677 (EG621677), mRNA [XM_896571]	0.40	0.032	0.485
Aire	NM_009646	ref Mus musculus autoimmune regulator (autoimmune polyendocrinopathy candidiasis ectodermal dystrophy) (Aire), mRNA [NM_009646]	0.40	0.010	0.401
1300014J16Rik	AK005005	gb Mus musculus adult male liver cDNA, RIKEN full-length enriched library, clone:1300014J16 product:unclassifiable, full insert sequence. [AK005005]	0.40	0.024	0.458
Cldn10a	NM_021386	ref Mus musculus claudin 10A (Cldn10a), transcript variant b, mRNA [NM_021386]	0.40	0.040	0.504
chr2:150217425-150266600_F	chr2:150217425-150266600_F	lincRNA:chr2:150217425-150266600 forward strand	0.40	0.032	0.483
Tmem55b	NM_001033271	ref Mus musculus transmembrane protein 55b (Tmem55b), mRNA [NM_001033271]	0.40	0.049	0.519
Nfe2	NM_008685	ref Mus musculus nuclear factor, erythroid derived 2 (Nfe2), mRNA [NM_008685]	0.40	0.038	0.499
G6pc	NM_008061	ref Mus musculus glucose-6-phosphatase, catalytic (G6pc), mRNA [NM_008061]	0.40	0.022	0.452
chr4:149383134-149451259_R	chr4:149383134-149451259_R	lincRNA:chr4:149383134-149451259 reverse strand	0.40	0.017	0.435
chr12:72103832-72116875_F	chr12:72103832-72116875_F	lincRNA:chr12:72103832-72116875 forward strand	0.40	0.032	0.484

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Vmn2r72-ps	NM_001105185	ref Mus musculus vomeronasal 2, receptor 72, pseudogene (Vmn2r72-ps), mRNA [NM_001105185]	0.40	0.045	0.513
Gm3374	XM_001474514	ref PREDICTED: Mus musculus hypothetical protein LOC100045222 (LOC100045222), mRNA [XM_001474514]	0.40	0.019	0.441
Prr19	NM_001081294	ref Mus musculus proline rich 19 (Prr19), mRNA [NM_001081294]	0.40	0.014	0.418
Tekt1	NM_011569	ref Mus musculus tektin 1 (Tekt1), mRNA [NM_011569]	0.39	0.047	0.515
Krtap12-1	NM_010670	ref Mus musculus keratin associated protein 12-1 (Krtap12-1), mRNA [NM_010670]	0.39	0.034	0.491
chr7:134643616-134651441_F	chr7:134643616-134651441_F	lincRNA:chr7:134643616-134651441 forward strand	0.39	0.024	0.457
Rbmy1a1	NM_011253	ref Mus musculus RNA binding motif protein, Y chromosome, family 1, member A1 (Rbmy1a1), transcript variant 1, mRNA [NM_011253]	0.39	0.004	0.314
chr8:94841965-94881130_R	chr8:94841965-94881130_R	lincRNA:chr8:94841965-94881130 reverse strand	0.39	0.009	0.398
chr6:35441848-35450830_R	chr6:35441848-35450830_R	lincRNA:chr6:35441848-35450830 reverse strand	0.39	0.029	0.477
chr1:138477829-138478580_F	chr1:138477829-138478580_F	lincRNA:chr1:138477829-138478580 forward strand	0.39	0.025	0.464
Gm3570	XM_001477184	ref PREDICTED: Mus musculus hypothetical protein LOC100041901 (LOC100041901), mRNA [XM_001477184]	0.39	0.014	0.412
chr8:60132300-60146830_R	chr8:60132300-60146830_R	lincRNA:chr8:60132300-60146830 reverse strand	0.39	0.038	0.499
Gm11787	XM_984338	ref PREDICTED: Mus musculus similar to Yamaguchi sarcoma viral (v-yes-1) oncogene homolog (LOC666513), mRNA [XM_984338]	0.39	0.032	0.485
Maml3	NM_001004176	ref Mus musculus mastermind like 3 (Drosophila) (Maml3), mRNA [NM_001004176]	0.39	0.019	0.439
2810410D24Rik	CB194565	gb AGENCOURT_11259907 NIH_MGC_135 Mus musculus cDNA clone IMAGE:30135997 5', mRNA sequence [CB194565]	0.39	0.018	0.435
Ccdc148	NM_001001178	ref Mus musculus coiled-coil domain containing 148 (Ccdc148), mRNA [NM_001001178]	0.39	0.040	0.504
Usp54	NM_030180	ref Mus musculus ubiquitin specific peptidase 54 (Usp54), mRNA [NM_030180]	0.39	0.048	0.518
chr16:64796849-64843249_R	chr16:64796849-64843249_R	lincRNA:chr16:64796849-64843249 reverse strand	0.39	0.017	0.429
chr3:152810906-152815072_R	chr3:152810906-152815072_R	lincRNA:chr3:152810906-152815072 reverse strand	0.39	0.049	0.518
Pde3a	ENSMUST00000043259	ens phosphodiesterase 3A, cGMP inhibited Gene [Source:MGI Symbol;Acc:MGI:1860764] [ENSMUST00000043259]	0.39	0.020	0.443
chr3:35782698-35789932_F	chr3:35782698-35789932_F	lincRNA:chr3:35782698-35789932 forward strand	0.39	0.033	0.487
Vmn1r82	NM_134234	ref Mus musculus vomeronasal 1 receptor 82 (Vmn1r82), mRNA [NM_134234]	0.39	0.022	0.452
chr8:67542714-67561694_F	chr8:67542714-67561694_F	lincRNA:chr8:67542714-67561694 forward strand	0.39	0.006	0.369
Ankrd16	BC116230	gb Mus musculus ankyrin repeat domain 16, mRNA (cDNA clone MGC:143639 IMAGE:40091582), complete cds. [BC116230]	0.39	0.044	0.511
Syncrip	NM_019666	ref Mus musculus synaptotagmin binding, cytoplasmic RNA interacting protein (Syncrip), transcript variant 1, mRNA [NM_019666]	0.39	0.042	0.507

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr4:3745750-3756200_R	chr4:3745750-3756200_R	lincRNA:chr4:3745750-3756200 reverse strand	0.39	0.041	0.507
Lrrc8c	NM_133897	ref Mus musculus leucine rich repeat containing 8 family, member C (Lrrc8c), mRNA [NM_133897]	0.39	0.047	0.515
Gm4171	XM_001479314	ref PREDICTED: Mus musculus similar to reproductive homeobox on X chromosome 8 (LOC100043014), mRNA [XM_001479314]	0.39	0.027	0.471
Clec18a	NM_181549	ref Mus musculus C-type lectin domain family 18, member A (Clec18a), mRNA [NM_181549]	0.39	0.046	0.513
Bspry	NM_138653	ref Mus musculus B-box and SPRY domain containing (Bspry), mRNA [NM_138653]	0.38	0.010	0.404
Defb45	NM_001037752	ref Mus musculus defensin beta 45 (Defb45), mRNA [NM_001037752]	0.38	0.029	0.477
Acer2	NM_139306	ref Mus musculus alkaline ceramidase 2 (Acer2), mRNA [NM_139306]	0.38	0.017	0.433
Olfir71	NM_019486	ref Mus musculus olfactory receptor 71 (Olfir71), mRNA [NM_019486]	0.38	0.011	0.407
Pgap1	NM_001163314	ref Mus musculus post-GPI attachment to proteins 1 (Pgap1), mRNA [NM_001163314]	0.38	0.005	0.349
D930030O05Rik	AK083489	gb Mus musculus 9 days embryo whole body cDNA, RIKEN full-length enriched library, clone:D030028K24 product:unclassifiable, full insert sequence. [AK083489]	0.38	0.044	0.513
chrX:102222494-102267068_F	chrX:102222494-102267068_F	lincRNA:chrX:102222494-102267068 forward strand	0.38	0.048	0.516
Nrip1	ENSMUST00000121927	ens nuclear receptor interacting protein 1 Gene [Source:MGI (curated);Acc:MGI:1315213] [ENSMUST00000121927]	0.38	0.038	0.499
chrX:47893703-47996700_R	chrX:47893703-47996700_R	lincRNA:chrX:47893703-47996700 reverse strand	0.38	0.049	0.519
Gm2058	NM_001170345	ref Mus musculus predicted gene 2058 (Gm2058), mRNA [NM_001170345]	0.38	0.006	0.369
Tcfap2a	NM_001122948	ref Mus musculus transcription factor AP-2, alpha (Tcfap2a), transcript variant 2, mRNA [NM_001122948]	0.38	0.026	0.470
LOC100047604	XM_001478488	ref PREDICTED: Mus musculus similar to Clast3 protein (LOC100047604), mRNA [XM_001478488]	0.38	0.044	0.512
LOC100048004	XM_001479320	ref PREDICTED: Mus musculus hypothetical protein LOC100048004 (LOC100048004), mRNA [XM_001479320]	0.38	0.043	0.509
chr7:46745641-46755766_R	chr7:46745641-46755766_R	lincRNA:chr7:46745641-46755766 reverse strand	0.38	0.046	0.513
LOC621118	XR_030903	ref PREDICTED: Mus musculus similar to family with sequence similarity 58, member A (LOC621118), misc RNA [XR_030903]	0.38	0.024	0.458
4930538K18Rik	NM_029198	ref Mus musculus RIKEN cDNA 4930538K18 gene (4930538K18Rik), mRNA [NM_029198]	0.38	0.037	0.496
Olfir488	NM_146732	ref Mus musculus olfactory receptor 488 (Olfir488), mRNA [NM_146732]	0.38	0.022	0.452
Nfe2l1	NM_008686	ref Mus musculus nuclear factor, erythroid derived 2,-like 1 (Nfe2l1), transcript variant 1, mRNA [NM_008686]	0.38	0.015	0.418
ENSMUST00000114113	ENSMUST00000114113	ens zinc finger and BTB domain containing 49 Gene [Source:MGI (curated);Acc:MGI:1922329] [ENSMUST00000114113]	0.38	0.006	0.366
Sh3rf1	NM_021506	ref Mus musculus SH3 domain containing ring finger 1 (Sh3rf1), mRNA [NM_021506]	0.38	0.027	0.471
chr9:75316023-75344401_R	chr9:75316023-75344401_R	lincRNA:chr9:75316023-75344401 reverse strand	0.38	0.032	0.484

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000077055	ENSMUST00000077055	ens olfactory receptor 1025, pseudogene 1 Pseudogene [Source:MGI (curated);Acc:MGI:3030859] [ENSMUST00000077055]	0.38	0.040	0.501
Gm4054	XM_001478985	ref PREDICTED: Mus musculus hypothetical protein LOC100047906 (LOC100047906), mRNA [XM_001478985]	0.38	0.015	0.418
chr1:87343550-87362900_F	chr1:87343550-87362900_F	lincRNA:chr1:87343550-87362900 forward strand	0.38	0.036	0.495
ENSMUST00000103371	ENSMUST00000103371	gb Mus musculus anti-polycation monoclonal antibody, Ig light chain variable region mRNA, partial cds. [U78500]	0.38	0.044	0.512
chr6:37630192-37682692_F	chr6:37630192-37682692_F	lincRNA:chr6:37630192-37682692 forward strand	0.38	0.046	0.513
ENSMUST00000101405	ENSMUST00000101405	Unknown	0.38	0.028	0.474
Arl13a	NM_028947	ref Mus musculus ADP-ribosylation factor-like 13A (Arl13a), mRNA [NM_028947]	0.38	0.049	0.519
Zc3h4	NM_198631	ref Mus musculus zinc finger CCCH-type containing 4 (Zc3h4), mRNA [NM_198631]	0.38	0.036	0.495
ENSMUST00000098759	ENSMUST00000098759	ens RIKEN cDNA 1700104A03 gene Gene [Source:MGI Symbol;Acc:MGI:1920817] [ENSMUST00000098759]	0.38	0.026	0.470
Vat1l	NM_173016	ref Mus musculus vesicle amine transport protein 1 homolog-like (T. californica) (Vat1l), mRNA [NM_173016]	0.37	0.035	0.495
chr2:77146893-77155643_F	chr2:77146893-77155643_F	lincRNA:chr2:77146893-77155643 forward strand	0.37	0.039	0.500
chr8:124355710-124401160_R	chr8:124355710-124401160_R	lincRNA:chr8:124355710-124401160 reverse strand	0.37	0.014	0.418
Gm13508	XR_030902	ref PREDICTED: Mus musculus similar to ribosomal protein S3a (LOC435666), misc RNA [XR_030902]	0.37	0.008	0.391
Gpatch2	NM_026367	ref Mus musculus G patch domain containing 2 (Gpatch2), mRNA [NM_026367]	0.37	0.010	0.405
chr1:138570107-138632310_R	chr1:138570107-138632310_R	lincRNA:chr1:138570107-138632310 reverse strand	0.37	0.045	0.513
chr15:60656586-60685333_R	chr15:60656586-60685333_R	lincRNA:chr15:60656586-60685333 reverse strand	0.37	0.050	0.520
chr12:33606225-33638225_F	chr12:33606225-33638225_F	lincRNA:chr12:33606225-33638225 forward strand	0.37	0.043	0.510
Pik3ap1	NM_031376	ref Mus musculus phosphoinositide-3-kinase adaptor protein 1 (Pik3ap1), mRNA [NM_031376]	0.37	0.049	0.519
chr5:53931541-53945241_R	chr5:53931541-53945241_R	lincRNA:chr5:53931541-53945241 reverse strand	0.37	0.016	0.427
Foxp1	NM_053202	ref Mus musculus forkhead box P1 (Foxp1), mRNA [NM_053202]	0.37	0.046	0.513
chr1:138442536-138521080_F	chr1:138442536-138521080_F	lincRNA:chr1:138442536-138521080 forward strand	0.37	0.042	0.508
chr4:135896689-135918414_F	chr4:135896689-135918414_F	lincRNA:chr4:135896689-135918414 forward strand	0.37	0.049	0.519
Grk1	NM_011881	ref Mus musculus G protein-coupled receptor kinase 1 (Grk1), mRNA [NM_011881]	0.37	0.010	0.400
Insr	NM_010568	ref Mus musculus insulin receptor (Insr), mRNA [NM_010568]	0.37	0.037	0.497
chr12:76765238-76765739_R	chr12:76765238-76765739_R	lincRNA:chr12:76765238-76765739 reverse strand	0.37	0.032	0.485
chr8:19887285-19889397_R	chr8:19887285-19889397_R	lincRNA:chr8:19887285-19889397 reverse strand	0.37	0.029	0.477
Hecw2	NM_172655	ref Mus musculus HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2 (Hecw2), transcript variant 2, mRNA [NM_172655]	0.37	0.034	0.491

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Slc35e4	NM_153142	ref Mus musculus solute carrier family 35, member E4 (Slc35e4), mRNA [NM_153142]	0.37	0.046	0.513
Gls	NM_001081081	ref Mus musculus glutaminase (Gls), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_001081081]	0.37	0.015	0.418
chr4:145593253-145594254_R	chr4:145593253-145594254_R	lincRNA:chr4:145593253-145594254 reverse strand	0.37	0.032	0.485
chr11:22992716-23024484_R	chr11:22992716-23024484_R	lincRNA:chr11:22992716-23024484 reverse strand	0.37	0.035	0.495
Itpril1	NM_001163527	ref Mus musculus inositol 1,4,5-triphosphate receptor interacting protein-like 1 (Itpril1), transcript variant 1, mRNA [NM_001163527]	0.36	0.012	0.408
chr12:72103832-72116875_R	chr12:72103832-72116875_R	lincRNA:chr12:72103832-72116875 reverse strand	0.36	0.039	0.500
chr8:41475940-41476460_F	chr8:41475940-41476460_F	lincRNA:chr8:41475940-41476460 forward strand	0.36	0.028	0.474
St3gal1	NM_009177	ref Mus musculus ST3 beta-galactoside alpha-2,3-sialyltransferase 1 (St3gal1), mRNA [NM_009177]	0.36	0.025	0.463
Rnase10	NM_029145	ref Mus musculus ribonuclease, RNase A family, 10 (non-active) (Rnase10), transcript variant 1, mRNA [NM_029145]	0.36	0.020	0.442
ENSMUST00000100697	ENSMUST00000100697	ref PREDICTED: Mus musculus hypothetical LOC676390 (LOC676390), mRNA [XM_989725]	0.36	0.023	0.456
ENSMUST00000056274	ENSMUST00000056274	ens RIKEN cDNA C230013L11 gene Gene [Source:MGI Symbol;Acc:MGI:2442581] [ENSMUST00000056274]	0.36	0.006	0.366
LOC676101	XR_031492	ref PREDICTED: Mus musculus similar to Hmgb1 protein (LOC676101), misc RNA [XR_031492]	0.36	0.023	0.456
Myo15	NM_010862	ref Mus musculus myosin XV (Myo15), transcript variant 1, mRNA [NM_010862]	0.36	0.042	0.508
Gm46	ENSMUST00000095451	ref PREDICTED: Mus musculus gene model 46, (NCBI) (Gm46), mRNA [XM_001478081]	0.36	0.039	0.500
Clp1	NM_133840	ref Mus musculus CLP1, cleavage and polyadenylation factor I subunit, homolog (S. cerevisiae) (Clp1), mRNA [NM_133840]	0.36	0.042	0.508
Urgcp	NM_001077661	ref Mus musculus upregulator of cell proliferation (Urgcp), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA [NM_001077661]	0.36	0.014	0.413
chr14:79724027-79729152_F	chr14:79724027-79729152_F	lincRNA:chr14:79724027-79729152 forward strand	0.36	0.038	0.499
Ddx3x	NM_010028	ref Mus musculus DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-linked (Ddx3x), mRNA [NM_010028]	0.36	0.040	0.502
chr12:55417150-55418002_R	chr12:55417150-55418002_R	lincRNA:chr12:55417150-55418002 reverse strand	0.36	0.046	0.513
LOC100047822	XM_001478931	ref PREDICTED: Mus musculus hypothetical protein LOC100047822 (LOC100047822), mRNA [XM_001478931]	0.36	0.022	0.450
1700014B07Rik	ENSMUST00000056627	ens RIKEN cDNA 1700014B07 gene Gene [Source:MGI Symbol;Acc:MGI:1919498] [ENSMUST00000056627]	0.36	0.037	0.496
chr10:126831225-126832253_F	chr10:126831225-126832253_F	lincRNA:chr10:126831225-126832253 forward strand	0.36	0.043	0.510
LOC634091	ENSMUST00000141713	ens RIKEN cDNA 4932431P20 gene Gene [Source:MGI Symbol;Acc:MGI:2149781] [ENSMUST00000141713]	0.36	0.047	0.515
ENSMUST00000103323	ENSMUST00000103323	gb Mus musculus clone 1-B4 immunoglobulin kappa light chain variable region mRNA, partial cds. [AF144972]	0.36	0.012	0.412
2810403G07Rik	AK012974	gb Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2810403G07 product:unclassifiable, full insert sequence. [AK012974]	0.36	0.023	0.456

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Krtap1-5	NM_027157	ref Mus musculus keratin associated protein 1-5 (Krtap1-5), mRNA [NM_027157]	0.36	0.037	0.496
chr8:27259077-27268252_F	chr8:27259077-27268252_F	lincRNA:chr8:27259077-27268252 forward strand	0.36	0.011	0.407
chr18:38477934-38478445_F	chr18:38477934-38478445_F	lincRNA:chr18:38477934-38478445 forward strand	0.36	0.035	0.495
E4f1	NM_007893	ref Mus musculus E4f transcription factor 1 (E4f1), mRNA [NM_007893]	0.36	0.040	0.502
ENSMUST00000032858	ENSMUST00000032858	ens RIKEN cDNA 1700019G06 gene Gene [Source:MGI Symbol;Acc:MGI:1916654] [ENSMUST00000032858]	0.36	0.049	0.519
Gm88	NM_001111142	ref Mus musculus predicted gene 88 (Gm88), mRNA [NM_001111142]	0.36	0.008	0.393
Eif1a	NM_010120	ref Mus musculus eukaryotic translation initiation factor 1A (Eif1a), mRNA [NM_010120]	0.36	0.032	0.484
Sept14	NM_028826	ref Mus musculus septin 14 (Sept14), mRNA [NM_028826]	0.36	0.045	0.513
1700047A11Rik	XM_001478344	ref PREDICTED: Mus musculus RIKEN cDNA 1700047A11 gene (1700047A11Rik), mRNA [XM_001478344]	0.36	0.021	0.448
ENSMUST00000100698	ENSMUST00000100698	ref PREDICTED: Mus musculus similar to CDNA sequence BC061237 (LOC100044625), mRNA [XM_001472731]	0.35	0.016	0.426
LOC675608	XM_994628	ref PREDICTED: Mus musculus similar to putative integral membrane protein TMIE (LOC675608), mRNA [XM_994628]	0.35	0.045	0.513
Rreb1	NR_033615	ref Mus musculus ras responsive element binding protein 1 (Rreb1), transcript variant 5, non-coding RNA [NR_033615]	0.35	0.042	0.507
ENSMUST00000091059	ENSMUST00000091059	ens tetratricopeptide repeat domain 16 Gene [Source:MGI (curated);Acc:MGI:2443048] [ENSMUST00000091059]	0.35	0.022	0.452
Olf1494	NM_146990	ref Mus musculus olfactory receptor 1494 (Olf1494), mRNA [NM_146990]	0.35	0.034	0.493
Chic1	NM_009767	ref Mus musculus cysteine-rich hydrophobic domain 1 (Chic1), mRNA [NM_009767]	0.35	0.032	0.485
chr19:7458725-7474825_F	chr19:7458725-7474825_F	lincRNA:chr19:7458725-7474825 forward strand	0.35	0.038	0.498
Vmn1r167	NM_001101562	ref Mus musculus vomeronasal 1 receptor 167 (Vmn1r167), mRNA [NM_001101562]	0.35	0.039	0.499
chr8:91569369-91594119_R	chr8:91569369-91594119_R	lincRNA:chr8:91569369-91594119 reverse strand	0.35	0.046	0.513
chr2:157236070-157249445_R	chr2:157236070-157249445_R	lincRNA:chr2:157236070-157249445 reverse strand	0.35	0.035	0.495
chr5:115806200-115834425_F	chr5:115806200-115834425_F	lincRNA:chr5:115806200-115834425 forward strand	0.35	0.026	0.470
ENSMUST00000061860	ENSMUST00000061860	ens RIKEN cDNA 4930518F22 gene Gene [Source:MGI Symbol;Acc:MGI:1918905] [ENSMUST00000061860]	0.35	0.045	0.513
Csrp2bp	NM_181417	ref Mus musculus cysteine and glycine-rich protein 2 binding protein (Csrp2bp), transcript variant 1, mRNA [NM_181417]	0.35	0.020	0.445
ENSMUST00000089106	ENSMUST00000089106	ens Glycine tyrosine-rich hair keratin protein [Source:UniProtKB/TrEMBL;Acc:O08631] [ENSMUST00000089106]	0.35	0.048	0.516
chr5:22801058-22939737_F	chr5:22801058-22939737_F	lincRNA:chr5:22801058-22939737 forward strand	0.35	0.009	0.399
Fam122b	NM_030167	ref Mus musculus family with sequence similarity 122, member B (Fam122b), transcript variant 2, mRNA [NM_030167]	0.35	0.048	0.518

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Olfr506	NM_001011871	ref Mus musculus olfactory receptor 506 (Olfr506), mRNA [NM_001011871]	0.35	0.039	0.501
chr10:60473030-60535340_R	chr10:60473030-60535340_R	lincRNA:chr10:60473030-60535340 reverse strand	0.35	0.038	0.499
ENSMUST00000101687	ENSMUST00000101687	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UUN3] [ENSMUST00000101687]	0.35	0.031	0.482
Fermt2	NM_146054	ref Mus musculus fermitin family homolog 2 (Drosophila) (Fermt2), mRNA [NM_146054]	0.35	0.029	0.477
F830014O18Rik	AK089751	gb Mus musculus activated spleen cDNA, RIKEN full-length enriched library, clone:F830014O18 product:unclassifiable, full insert sequence. [AK089751]	0.35	0.046	0.513
Gm7356	XM_972876	ref PREDICTED: Mus musculus predicted gene, EG664821 (EG664821), mRNA [XM_972876]	0.35	0.029	0.477
chr12:52880692-52933444_R	chr12:52880692-52933444_R	lincRNA:chr12:52880692-52933444 reverse strand	0.35	0.035	0.495
chr16:4525147-4542122_F	chr16:4525147-4542122_F	lincRNA:chr16:4525147-4542122 forward strand	0.35	0.047	0.515
Igfb3	NM_207205	ref Mus musculus immunoglobulin superfamily, member 3 (Igfb3), mRNA [NM_207205]	0.35	0.018	0.437
Smpx	ENSMUST00000112520	ens small muscle protein, X-linked Gene [Source:MGI (curated);Acc:MGI:1913356] [ENSMUST00000112520]	0.35	0.030	0.478
Adcy6	NM_007405	ref Mus musculus adenylate cyclase 6 (Adcy6), mRNA [NM_007405]	0.35	0.035	0.495
chr3:93159107-93159613_F	chr3:93159107-93159613_F	lincRNA:chr3:93159107-93159613 forward strand	0.35	0.015	0.419
LOC636303	XR_033307	ref PREDICTED: Mus musculus similar to Coenzyme Q9 homolog (yeast) (LOC636303), misc RNA [XR_033307]	0.35	0.045	0.513
Kif9	NM_001163569	ref Mus musculus kinesin family member 9 (Kif9), transcript variant 1, mRNA [NM_001163569]	0.35	0.030	0.477
Slc1a2	NM_001077514	ref Mus musculus solute carrier family 1 (glial high affinity glutamate transporter), member 2 (Slc1a2), transcript variant 1, mRNA [NM_001077514]	0.35	0.036	0.495
chr8:49911596-49912196_R	chr8:49911596-49912196_R	lincRNA:chr8:49911596-49912196 reverse strand	0.35	0.039	0.500
Rel2	NM_153793	ref Mus musculus RELT-like 2 (Rel2), mRNA [NM_153793]	0.34	0.016	0.427
Ceacam12	NM_026087	ref Mus musculus carcinoembryonic antigen-related cell adhesion molecule 12 (Ceacam12), transcript variant 1, mRNA [NM_026087]	0.34	0.032	0.483
AU019823	NM_001134902	ref Mus musculus expressed sequence AU019823 (AU019823), transcript variant 1, mRNA [NM_001134902]	0.34	0.035	0.495
Six4	NM_011382	ref Mus musculus sine oculis-related homeobox 4 homolog (Drosophila) (Six4), mRNA [NM_011382]	0.34	0.047	0.514
Prps1l1	NM_029294	ref Mus musculus phosphoribosyl pyrophosphate synthetase 1-like 1 (Prps1l1), mRNA [NM_029294]	0.34	0.048	0.516
Art4	NM_026639	ref Mus musculus ADP-ribosyltransferase 4 (Art4), mRNA [NM_026639]	0.34	0.028	0.474
chr4:148119487-148121143_R	chr4:148119487-148121143_R	lincRNA:chr4:148119487-148121143 reverse strand	0.34	0.025	0.464
Tdgf1	NM_011562	ref Mus musculus teratocarcinoma-derived growth factor 1 (Tdgf1), mRNA [NM_011562]	0.34	0.043	0.510
Gm4610	XM_001479361	ref PREDICTED: Mus musculus hypothetical protein LOC100047914 (LOC100047914), mRNA [XM_001479361]	0.34	0.047	0.515
Inpp5f	NM_178641	ref Mus musculus inositol polyphosphate-5-phosphatase F (Inpp5f), mRNA [NM_178641]	0.34	0.020	0.445

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Sirpb1a	NM_001002898	ref Mus musculus signal-regulatory protein beta 1A (Sirpb1a), transcript variant 3, mRNA [NM_001002898]	0.34	0.045	0.513
Gm2051	XM_001472400	ref PREDICTED: Mus musculus hypothetical protein LOC100039117 (LOC100039117), mRNA [XM_001472400]	0.34	0.006	0.369
B230219N05Rik	AK045665	gb Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enriched library, clone:B230219N05 product:unclassifiable, full insert sequence. [AK045665]	0.34	0.031	0.482
chr18:60891745-60896311_F	chr18:60891745-60896311_F	lincRNA:chr18:60891745-60896311 forward strand	0.34	0.020	0.442
Zfp422	NM_026057	ref Mus musculus zinc finger protein 422 (Zfp422), mRNA [NM_026057]	0.34	0.049	0.519
Rsph3a	NM_025789	ref Mus musculus radial spoke 3A homolog (Chlamydomonas) (Rsph3a), mRNA [NM_025789]	0.34	0.031	0.483
Hbs1l	NM_001145209	ref Mus musculus Hbs1-like (S. cerevisiae) (Hbs1l), transcript variant 3, mRNA [NM_001145209]	0.34	0.043	0.509
chr1:90149027-90152254_F	chr1:90149027-90152254_F	lincRNA:chr1:90149027-90152254 forward strand	0.34	0.032	0.484
ENSMUST00000103567	ENSMUST00000103567	ens TRAV1 Fragment [Source:UniProtKB/TrEMBL;Acc:Q5R1J0] [ENSMUST00000103567]	0.34	0.028	0.477
ENSMUST00000097361	ENSMUST00000097361	ens RIKEN cDNA C130040N14 gene Gene [Source:MGI Symbol;Acc:MGI:3588257] [ENSMUST00000097361]	0.34	0.016	0.425
chr3:37543528-37546874_F	chr3:37543528-37546874_F	lincRNA:chr3:37543528-37546874 forward strand	0.34	0.037	0.498
Harbi1	NM_178724	ref Mus musculus harbinger transposase derived 1 (Harbi1), mRNA [NM_178724]	0.34	0.038	0.499
A730062M13Rik	AK043165	gb Mus musculus 7 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:A730062M13 product:unclassifiable, full insert sequence. [AK043165]	0.33	0.034	0.491
Ccdc68	NM_201362	ref Mus musculus coiled-coil domain containing 68 (Ccdc68), mRNA [NM_201362]	0.33	0.050	0.520
Ptpn2	NM_008977	ref Mus musculus protein tyrosine phosphatase, non-receptor type 2 (Ptpn2), transcript variant 1, mRNA [NM_008977]	0.33	0.023	0.455
chr4:86267450-86277650_F	chr4:86267450-86277650_F	lincRNA:chr4:86267450-86277650 forward strand	0.33	0.016	0.426
Gm4053	XM_001479457	ref PREDICTED: Mus musculus hypothetical protein LOC100047878 (LOC100047878), mRNA [XM_001479457]	0.33	0.035	0.494
Ntsr1	NM_018766	ref Mus musculus neurotensin receptor 1 (Ntsr1), mRNA [NM_018766]	0.33	0.041	0.505
chr17:22045002-22046886_R	chr17:22045002-22046886_R	lincRNA:chr17:22045002-22046886 reverse strand	0.33	0.035	0.495
Psors1c2	NM_020576	ref Mus musculus psoriasis susceptibility 1 candidate 2 (human) (Psors1c2), mRNA [NM_020576]	0.33	0.016	0.426
chr14:105987405-106063477_R	chr14:105987405-106063477_R	lincRNA:chr14:105987405-106063477 reverse strand	0.33	0.031	0.481
chr11:51854060-51903278_F	chr11:51854060-51903278_F	lincRNA:chr11:51854060-51903278 forward strand	0.33	0.041	0.505
ENSMUST00000114877	ENSMUST00000114877	ens poly (ADP-ribose) polymerase family, member 9 Gene [Source:MGI (curated);Acc:MGI:1933117] [ENSMUST00000114877]	0.33	0.032	0.484
C230094B09Rik	AK082713	gb Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched library, clone:C230094B09 product:unclassifiable, full insert sequence. [AK082713]	0.33	0.038	0.499

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Csrp2bp	NM_181417	ref Mus musculus cysteine and glycine-rich protein 2 binding protein (Csrp2bp), transcript variant 1, mRNA [NM_181417]	0.33	0.031	0.483
Anp32e	NM_023210	ref Mus musculus acidic (leucine-rich) nuclear phosphoprotein 32 family, member E (Anp32e), mRNA [NM_023210]	0.33	0.045	0.513
chr3:138239464-138241728_R	chr3:138239464-138241728_R	lincRNA:chr3:138239464-138241728 reverse strand	0.33	0.046	0.513
chr9:106170918-106177894_F	chr9:106170918-106177894_F	lincRNA:chr9:106170918-106177894 forward strand	0.33	0.040	0.502
Rit2	NM_009065	ref Mus musculus Ras-like without CAAX 2 (Rit2), mRNA [NM_009065]	0.33	0.018	0.435
Stk32a	NM_178749	ref Mus musculus serine/threonine kinase 32A (Stk32a), mRNA [NM_178749]	0.33	0.036	0.495
chr12:73789535-73799787_R	chr12:73789535-73799787_R	lincRNA:chr12:73789535-73799787 reverse strand	0.33	0.030	0.480
Tssk6	NM_032004	ref Mus musculus testis-specific serine kinase 6 (Tssk6), mRNA [NM_032004]	0.33	0.038	0.499
chr9:43921700-43939600_R	chr9:43921700-43939600_R	lincRNA:chr9:43921700-43939600 reverse strand	0.33	0.048	0.516
Fbxw2	NM_013890	ref Mus musculus F-box and WD-40 domain protein 2 (Fbxw2), transcript variant 1, mRNA [NM_013890]	0.33	0.023	0.453
chr16:30170306-30223193_R	chr16:30170306-30223193_R	lincRNA:chr16:30170306-30223193 reverse strand	0.33	0.047	0.514
chr12:4579206-4583562_R	chr12:4579206-4583562_R	lincRNA:chr12:4579206-4583562 reverse strand	0.33	0.035	0.494
BC049730	NM_199150	ref Mus musculus cDNA sequence BC049730 (BC049730), mRNA [NM_199150]	0.33	0.042	0.507
chr2:181650800-181669350_F	chr2:181650800-181669350_F	lincRNA:chr2:181650800-181669350 forward strand	0.33	0.016	0.428
chr12:4581550-4599600_F	chr12:4581550-4599600_F	lincRNA:chr12:4581550-4599600 forward strand	0.33	0.027	0.472
Fgf8	NM_010205	ref Mus musculus fibroblast growth factor 8 (Fgf8), transcript variant 1, mRNA [NM_010205]	0.33	0.045	0.513
9330133O14Rik	AK033985	gb Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched library, clone:9330133O14 product:unclassifiable, full insert sequence. [AK033985]	0.33	0.032	0.485
Ftmt	NM_026286	ref Mus musculus ferritin mitochondrial (Ftmt), nuclear gene encoding mitochondrial protein, mRNA [NM_026286]	0.33	0.019	0.437
Wdr43	NM_175639	ref Mus musculus WD repeat domain 43 (Wdr43), mRNA [NM_175639]	0.33	0.039	0.501
Csrp2bp	NM_181417	ref Mus musculus cysteine and glycine-rich protein 2 binding protein (Csrp2bp), transcript variant 1, mRNA [NM_181417]	0.33	0.026	0.470
Olfr281	NM_146280	ref Mus musculus olfactory receptor 281 (Olfr281), mRNA [NM_146280]	0.32	0.038	0.499
chr19:24978025-24988025_R	chr19:24978025-24988025_R	lincRNA:chr19:24978025-24988025 reverse strand	0.32	0.022	0.453
chrX:12755425-12772575_R	chrX:12755425-12772575_R	lincRNA:chrX:12755425-12772575 reverse strand	0.32	0.018	0.435
chr13:48576557-48581632_R	chr13:48576557-48581632_R	lincRNA:chr13:48576557-48581632 reverse strand	0.32	0.034	0.493
ENSMUST00000097524	ENSMUST00000097524	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3V055] [ENSMUST00000097524]	0.32	0.025	0.463

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Slc39a6	NM_139143	ref Mus musculus solute carrier family 39 (metal ion transporter), member 6 (Slc39a6), mRNA [NM_139143]	0.32	0.014	0.412
LOC100045212	XM_001473647	ref PREDICTED: Mus musculus similar to SIRP beta 1 like 1 protein (LOC100045212), mRNA [XM_001473647]	0.32	0.021	0.450
chr7:16584852-16657252_F	chr7:16584852-16657252_F	lincRNA:chr7:16584852-16657252 forward strand	0.32	0.036	0.495
chr10:117027298-117032998_F	chr10:117027298-117032998_F	lincRNA:chr10:117027298-117032998 forward strand	0.32	0.022	0.452
593041619Rik	NR_027360	ref Mus musculus RIKEN cDNA 593041619 gene (593041619Rik), transcript variant 1, non-coding RNA [NR_027360]	0.32	0.025	0.465
chr17:25990279-25998670_F	chr17:25990279-25998670_F	lincRNA:chr17:25990279-25998670 forward strand	0.32	0.036	0.495
chr17:27445260-27455641_R	chr17:27445260-27455641_R	lincRNA:chr17:27445260-27455641 reverse strand	0.32	0.033	0.487
Pla2g7	NM_013737	ref Mus musculus phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma) (Pla2g7), mRNA [NM_013737]	0.32	0.023	0.456
Dhx38	NM_178380	ref Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 38 (Dhx38), mRNA [NM_178380]	0.32	0.034	0.493
Crtc2	NM_028881	ref Mus musculus CREB regulated transcription coactivator 2 (Crtc2), mRNA [NM_028881]	0.32	0.041	0.506
chr5:31883451-31884082_F	chr5:31883451-31884082_F	lincRNA:chr5:31883451-31884082 forward strand	0.32	0.032	0.483
Gm4155	XM_001478615	ref PREDICTED: Mus musculus hypothetical protein LOC100042993 (LOC100042993), mRNA [XM_001478615]	0.32	0.022	0.452
4930595D18Rik	ENSMUST00000121608	ref PREDICTED: Mus musculus RIKEN cDNA 4930595D18 gene (4930595D18Rik), mRNA [XM_001477231]	0.32	0.047	0.516
Rock2	NM_009072	ref Mus musculus Rho-associated coiled-coil containing protein kinase 2 (Rock2), mRNA [NM_009072]	0.32	0.047	0.514
Ttl19	NM_029064	ref Mus musculus tubulin tyrosine ligase-like family, member 9 (Ttl19), transcript variant 2, mRNA [NM_029064]	0.32	0.019	0.439
Fut10	NM_134161	ref Mus musculus fucosyltransferase 10 (Fut10), mRNA [NM_134161]	0.32	0.016	0.428
Zbtb2	NM_001033466	ref Mus musculus zinc finger and BTB domain containing 2 (Zbtb2), mRNA [NM_001033466]	0.32	0.030	0.477
Alk	NM_007439	ref Mus musculus anaplastic lymphoma kinase (Alk), mRNA [NM_007439]	0.32	0.039	0.501
Tfpi	NM_011576	ref Mus musculus tissue factor pathway inhibitor (Tfpi), transcript variant 1, mRNA [NM_011576]	0.32	0.009	0.393
Rock1	NM_009071	ref Mus musculus Rho-associated coiled-coil containing protein kinase 1 (Rock1), mRNA [NM_009071]	0.32	0.043	0.509
chr8:27912000-27992750_F	chr8:27912000-27992750_F	lincRNA:chr8:27912000-27992750 forward strand	0.31	0.030	0.477
ENSMUST00000092780	ENSMUST00000092780	ens carbonic anhydrase 10 Gene [Source:MGI (curated);Acc:MGI:1919855] [ENSMUST00000092780]	0.31	0.024	0.459
Tbx5	NM_011537	ref Mus musculus T-box 5 (Tbx5), mRNA [NM_011537]	0.31	0.040	0.502
2310061J03Rik	NR_027965	ref Mus musculus RIKEN cDNA 2310061J03 gene (2310061J03Rik), non-coding RNA [NR_027965]	0.31	0.027	0.472
A430075N02	AK079813	gb Mus musculus 0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A430075N02 product:unclassifiable, full insert sequence. [AK079813]	0.31	0.044	0.512
chr18:79286360-79304510_R	chr18:79286360-79304510_R	lincRNA:chr18:79286360-79304510 reverse strand	0.31	0.012	0.412

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr7:128400874-128439363_F	chr7:128400874-128439363_F	lincRNA:chr7:128400874-128439363 forward strand	0.31	0.025	0.464
AI836003	NM_177716	ref Mus musculus expressed sequence AI836003 (AI836003), mRNA [NM_177716]	0.31	0.042	0.508
Atn1	NM_007881	ref Mus musculus atrophin 1 (Atn1), mRNA [NM_007881]	0.31	0.048	0.516
Pdk1	NM_172665	ref Mus musculus pyruvate dehydrogenase kinase, isoenzyme 1 (Pdk1), nuclear gene encoding mitochondrial protein, mRNA [NM_172665]	0.31	0.022	0.452
Stil	NM_009185	ref Mus musculus Scf/Tal1 interrupting locus (Stil), mRNA [NM_009185]	0.31	0.045	0.513
chr5:110261075-110376700_R	chr5:110261075-110376700_R	lincRNA:chr5:110261075-110376700 reverse strand	0.31	0.025	0.466
chr17:34003823-34011015_F	chr17:34003823-34011015_F	lincRNA:chr17:34003823-34011015 forward strand	0.31	0.021	0.447
ENSMUST00000127420	ENSMUST00000127420	ens staufer (RNA binding protein) homolog 2 (Drosophila) Gene [Source:MGI (curated);Acc:MGI:1352508] [ENSMUST00000127420]	0.31	0.041	0.505
Trim43c	NM_001177858	ref Mus musculus tripartite motif-containing 43C (Trim43c), mRNA [NM_001177858]	0.31	0.039	0.500
Sgcd	NM_011891	ref Mus musculus sarcoglycan, delta (dystrophin-associated glycoprotein) (Sgcd), mRNA [NM_011891]	0.31	0.015	0.420
chr10:117021051-117038683_F	chr10:117021051-117038683_F	lincRNA:chr10:117021051-117038683 forward strand	0.31	0.038	0.499
Emb	NM_010330	ref Mus musculus embigin (Emb), mRNA [NM_010330]	0.31	0.042	0.507
Gm2475	XM_001473718	ref PREDICTED: Mus musculus hypothetical protein LOC100039883 (LOC100039883), mRNA [XM_001473718]	0.31	0.025	0.464
Iffo1	NM_001039669	ref Mus musculus intermediate filament family orphan 1 (Iffo1), transcript variant 1, mRNA [NM_001039669]	0.31	0.049	0.519
chr12:111322030-111323387_F	chr12:111322030-111323387_F	lincRNA:chr12:111322030-111323387 forward strand	0.31	0.022	0.452
Gm5109	ENSMUST00000064781	ref PREDICTED: Mus musculus predicted gene, EG330129 (EG330129), mRNA [XM_284106]	0.31	0.025	0.463
Nt5c2	NM_029810	ref Mus musculus 5'-nucleotidase, cytosolic II (Nt5c2), transcript variant 3, mRNA [NM_029810]	0.30	0.030	0.477
ENSMUST00000095637	ENSMUST00000095637	ens formyl peptide receptor, related sequence 7 Gene [Source:MGI Symbol;Acc:MGI:2448177] [ENSMUST00000095637]	0.30	0.043	0.510
ENSMUST00000101255	ENSMUST00000101255	ens RIKEN cDNA 9230009I02 gene Gene [Source:MGI Symbol;Acc:MGI:3588229] [ENSMUST00000101255]	0.30	0.046	0.513
chr14:99735346-99735699_R	chr14:99735346-99735699_R	lincRNA:chr14:99735346-99735699 reverse strand	0.30	0.014	0.414
chr4:57372663-57377164_R	chr4:57372663-57377164_R	lincRNA:chr4:57372663-57377164 reverse strand	0.30	0.028	0.475
Gm6352	XR_032364	ref PREDICTED: Mus musculus similar to cyclin I (LOC622745), misc RNA [XR_032364]	0.30	0.039	0.499
LOC100046935	XM_001477099	ref PREDICTED: Mus musculus similar to cyclic nucleotide gated channel beta 1 (LOC100046935), mRNA [XM_001477099]	0.30	0.028	0.474
LOC674543	XR_033362	ref PREDICTED: Mus musculus similar to High mobility group box 1 (LOC674543), misc RNA [XR_033362]	0.30	0.036	0.495
ENSMUST00000097644	ENSMUST00000097644	ens histone deacetylase 4 Gene [Source:MGI Symbol;Acc:MGI:3036234] [ENSMUST00000097644]	0.30	0.047	0.515
ENSMUST00000035629	ENSMUST00000035629	gb Mus musculus activated spleen cDNA, RIKEN full-length enriched library, clone:F830009N17 product:hypothetical protein, full insert sequence. [AK171768]	0.30	0.050	0.520

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000040638	ENSMUST00000040638	ens pre B-cell leukemia transcription factor 3 Gene [Source:MGI (curated);Acc:MGI:97496] [ENSMUST00000040638]	0.30	0.042	0.507
chr14:77258025-77278750_R	chr14:77258025-77278750_R	lincRNA:chr14:77258025-77278750 reverse strand	0.30	0.037	0.496
ENSMUST00000064032	ENSMUST00000064032	ens RIKEN cDNA 2010107H07 gene Gene [Source:MGI Symbol;Acc:MGI:1913737] [ENSMUST00000064032]	0.30	0.015	0.418
ENSMUST00000064287	ENSMUST00000064287	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q8C9C6] [ENSMUST00000064287]	0.30	0.035	0.495
chr12:21380896-21387071_R	chr12:21380896-21387071_R	lincRNA:chr12:21380896-21387071 reverse strand	0.30	0.031	0.481
Tesk1	NM_011571	ref Mus musculus testis specific protein kinase 1 (Tesk1), mRNA [NM_011571]	0.30	0.016	0.426
Lrnf5	NM_178714	ref Mus musculus leucine rich repeat and fibronectin type III domain containing 5 (Lrnf5), mRNA [NM_178714]	0.30	0.038	0.499
ENSMUST00000078232	ENSMUST00000078232	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q8CB11] [ENSMUST00000078232]	0.30	0.028	0.476
Map3k3	NM_011947	ref Mus musculus mitogen-activated protein kinase kinase kinase 3 (Map3k3), mRNA [NM_011947]	0.30	0.039	0.500
chr7:113768215-113783490_R	chr7:113768215-113783490_R	lincRNA:chr7:113768215-113783490 reverse strand	0.29	0.029	0.477
D030074E01Rik	NM_029491	ref Mus musculus RIKEN cDNA D030074E01 gene (D030074E01Rik), transcript variant 2, mRNA [NM_029491]	0.29	0.018	0.437
Mast1	NM_019945	ref Mus musculus microtubule associated serine/threonine kinase 1 (Mast1), mRNA [NM_019945]	0.29	0.039	0.499
Dbnnd2	NM_026797	ref Mus musculus dysbindin (dystrobrevin binding protein 1) domain containing 2 (Dbnnd2), transcript variant 2, mRNA [NM_026797]	0.29	0.033	0.489
Fam49a	NM_029758	ref Mus musculus family with sequence similarity 49, member A (Fam49a), transcript variant 1, mRNA [NM_029758]	0.29	0.027	0.472
Gm5856	XR_031301	ref PREDICTED: Mus musculus predicted gene, EG545570 (EG545570), misc RNA [XR_031301]	0.29	0.037	0.497
chr8:126396600-126407275_R	chr8:126396600-126407275_R	lincRNA:chr8:126396600-126407275 reverse strand	0.29	0.045	0.513
Sms	NM_009214	ref Mus musculus spermine synthase (Sms), mRNA [NM_009214]	0.29	0.032	0.484
chr16:50715231-50841124_F	chr16:50715231-50841124_F	lincRNA:chr16:50715231-50841124 forward strand	0.29	0.029	0.477
ENSMUST00000031652	ENSMUST00000031652	ens FMS-like tyrosine kinase 1 Gene [Source:MGI (curated);Acc:MGI:95558] [ENSMUST00000031652]	0.29	0.049	0.519
Dek	NM_025900	ref Mus musculus DEK oncogene (DNA binding) (Dek), mRNA [NM_025900]	0.29	0.043	0.509
chr16:11024315-11055740_F	chr16:11024315-11055740_F	lincRNA:chr16:11024315-11055740 forward strand	0.29	0.045	0.513
chr17:56687541-56694631_R	chr17:56687541-56694631_R	lincRNA:chr17:56687541-56694631 reverse strand	0.29	0.026	0.469
chr5:88995039-89009064_F	chr5:88995039-89009064_F	lincRNA:chr5:88995039-89009064 forward strand	0.29	0.028	0.474
Phf13	NM_172705	ref Mus musculus PHD finger protein 13 (Phf13), mRNA [NM_172705]	0.29	0.039	0.501
Nt5c2	NM_029810	ref Mus musculus 5'-nucleotidase, cytosolic II (Nt5c2), transcript variant 3, mRNA [NM_029810]	0.29	0.019	0.440

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr15:66684765-66685491_F	chr15:66684765-66685491_F	lincRNA:chr15:66684765-66685491 forward strand	0.29	0.045	0.513
Hdac6	NM_010413	ref Mus musculus histone deacetylase 6 (Hdac6), transcript variant 1, mRNA [NM_010413]	0.29	0.008	0.391
9430076G02Rik	AK036466	gb Mus musculus adult male bone cDNA, RIKEN full-length enriched library, clone:9830113G23 product:unclassifiable, full insert sequence. [AK036466]	0.29	0.049	0.519
chr18:61781410-61788685_F	chr18:61781410-61788685_F	lincRNA:chr18:61781410-61788685 forward strand	0.28	0.037	0.498
Olfr324	NM_001011743	ref Mus musculus olfactory receptor 324 (Olfr324), mRNA [NM_001011743]	0.28	0.041	0.505
chr5:109154386-109154906_F	chr5:109154386-109154906_F	lincRNA:chr5:109154386-109154906 forward strand	0.28	0.042	0.507
Brd2	NM_010238	ref Mus musculus bromodomain containing 2 (Brd2), transcript variant 1, mRNA [NM_010238]	0.28	0.032	0.483
chr6:140556677-140557216_F	chr6:140556677-140557216_F	lincRNA:chr6:140556677-140557216 forward strand	0.28	0.035	0.494
Arhgap21	NM_001128084	ref Mus musculus Rho GTPase activating protein 21 (Arhgap21), transcript variant 1, mRNA [NM_001128084]	0.28	0.030	0.477
Gm5246	XR_034011	ref PREDICTED: Mus musculus similar to 3-phosphoglycerate dehydrogenase (LOC383450), misc RNA [XR_034011]	0.28	0.036	0.495
Calm3	NM_007590	ref Mus musculus calmodulin 3 (Calm3), mRNA [NM_007590]	0.28	0.042	0.508
Wdr43	NM_175639	ref Mus musculus WD repeat domain 43 (Wdr43), mRNA [NM_175639]	0.28	0.015	0.418
Sgcb	NM_011890	ref Mus musculus sarcoglycan, beta (dystrophin-associated glycoprotein) (Sgcb), mRNA [NM_011890]	0.28	0.021	0.448
Slc38a11	NM_177074	ref Mus musculus solute carrier family 38, member 11 (Slc38a11), mRNA [NM_177074]	0.28	0.050	0.520
chr7:4827340-4863315_R	chr7:4827340-4863315_R	lincRNA:chr7:4827340-4863315 reverse strand	0.28	0.028	0.474
Cs	NM_026444	ref Mus musculus citrate synthase (Cs), nuclear gene encoding mitochondrial protein, mRNA [NM_026444]	0.28	0.032	0.483
Mtdh	NM_026002	ref Mus musculus metadherin (Mtdh), mRNA [NM_026002]	0.28	0.047	0.515
Btbd19	NR_024078	ref Mus musculus BTB (POZ) domain containing 19 (Btbd19), non-coding RNA [NR_024078]	0.28	0.036	0.495
Gm9376	NM_001101609	ref Mus musculus predicted gene 9376 (Gm9376), mRNA [NM_001101609]	0.28	0.021	0.447
Ppp1r1c	NM_172420	ref Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 1C (Ppp1r1c), mRNA [NM_172420]	0.27	0.042	0.507
A1cf	NM_001081074	ref Mus musculus APOBEC1 complementation factor (A1cf), mRNA [NM_001081074]	0.27	0.019	0.441
Gm10823	NR_033475	ref Mus musculus predicted gene 10823 (Gm10823), non-coding RNA [NR_033475]	0.27	0.043	0.509
Trim31	NM_146077	ref Mus musculus tripartite motif-containing 31 (Trim31), mRNA [NM_146077]	0.27	0.041	0.507
Dok1	NM_010070	ref Mus musculus docking protein 1 (Dok1), mRNA [NM_010070]	0.27	0.031	0.480
Nrf1	NM_001164226	ref Mus musculus nuclear respiratory factor 1 (Nrf1), transcript variant 1, mRNA [NM_001164226]	0.27	0.045	0.513
chr8:56200419-56205756_F	chr8:56200419-56205756_F	lincRNA:chr8:56200419-56205756 forward strand	0.27	0.010	0.404
AW742560	BB325257	gb BB325257 RIKEN full-length enriched, 4 days neonate male adipose Mus musculus cDNA clone B430115G18 3'. [BB325257]	0.27	0.045	0.513

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr14:80080060-80080597_R	chr14:80080060-80080597_R	lincRNA:chr14:80080060-80080597 reverse strand	0.27	0.037	0.497
chr4:3756167-3757483_R	chr4:3756167-3757483_R	lincRNA:chr4:3756167-3757483 reverse strand	0.27	0.037	0.498
Napb	NM_019632	ref Mus musculus N-ethylmaleimide sensitive fusion protein attachment protein beta (Napb), mRNA [NM_019632]	0.27	0.043	0.511
Gpi1	NM_008155	ref Mus musculus glucose phosphate isomerase 1 (Gpi1), mRNA [NM_008155]	0.27	0.035	0.495
LOC633387	ENSMUST00000109354	ens nucleophosmin 1 Gene [Source:MGI (curated);Acc:MGI:106184] [ENSMUST00000109354]	0.27	0.013	0.412
Tmem182	NM_001081198	ref Mus musculus transmembrane protein 182 (Tmem182), mRNA [NM_001081198]	0.27	0.031	0.482
H60c	XM_001476279	ref PREDICTED: Mus musculus similar to histocompatibility antigen 60 (LOC670558), mRNA [XM_001476279]	0.27	0.017	0.434
chr7:134779841-134840591_F	chr7:134779841-134840591_F	lincRNA:chr7:134779841-134840591 forward strand	0.27	0.034	0.491
B930049P21Rik	XM_924259	ref PREDICTED: Mus musculus RIKEN cDNA B930049P21 gene (B930049P21Rik), mRNA [XM_924259]	0.27	0.042	0.508
Dnajc25	NM_001033165	ref Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 25 (Dnajc25), mRNA [NM_001033165]	0.27	0.033	0.487
Gm5779	NR_033602	ref Mus musculus predicted gene 5779 (Gm5779), non-coding RNA [NR_033602]	0.27	0.009	0.394
Smg6	NM_001002764	ref Mus musculus Smg-6 homolog, nonsense mediated mRNA decay factor (C. elegans) (Smg6), mRNA [NM_001002764]	0.27	0.038	0.499
Jmjd6	NM_033398	ref Mus musculus jumonji domain containing 6 (Jmjd6), mRNA [NM_033398]	0.27	0.039	0.499
Gm15361	XM_001475929	ref PREDICTED: Mus musculus similar to UBE2D3 (LOC100046623), mRNA [XM_001475929]	0.26	0.027	0.472
ENSMUST00000062522	ENSMUST00000062522	ens RIKEN cDNA D230002A01 gene Gene [Source:MGI Symbol;Acc:MGI:2441953] [ENSMUST00000062522]	0.26	0.050	0.520
chr8:111766396-111772271_R	chr8:111766396-111772271_R	lincRNA:chr8:111766396-111772271 reverse strand	0.26	0.047	0.515
Rundc1	NM_172566	ref Mus musculus RUN domain containing 1 (Rundc1), mRNA [NM_172566]	0.26	0.033	0.487
chr4:53315503-53316050_F	chr4:53315503-53316050_F	lincRNA:chr4:53315503-53316050 forward strand	0.26	0.032	0.483
Zranb3	NM_027678	ref Mus musculus zinc finger, RAN-binding domain containing 3 (Zranb3), mRNA [NM_027678]	0.26	0.039	0.500
chr19:14916280-14916548_F	chr19:14916280-14916548_F	lincRNA:chr19:14916280-14916548 forward strand	0.26	0.042	0.508
chr15:58327703-58329443_R	chr15:58327703-58329443_R	lincRNA:chr15:58327703-58329443 reverse strand	0.26	0.034	0.493
Txnl4a	NM_178604	ref Mus musculus thioredoxin-like 4A (Txnl4a), transcript variant 2, mRNA [NM_178604]	0.26	0.041	0.505
chr2:174088550-174109425_F	chr2:174088550-174109425_F	lincRNA:chr2:174088550-174109425 forward strand	0.26	0.046	0.513
chr11:117768049-117807949_R	chr11:117768049-117807949_R	lincRNA:chr11:117768049-117807949 reverse strand	0.26	0.025	0.463
Vps54	NM_139061	ref Mus musculus vacuolar protein sorting 54 (yeast) (Vps54), mRNA [NM_139061]	0.26	0.049	0.519
Satb1	NM_009122	ref Mus musculus special AT-rich sequence binding protein 1 (Satb1), transcript variant 2, mRNA [NM_009122]	0.26	0.050	0.519

Online Supplemental Table IV: mG4H-STZ Only					
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000117450	ENSMUST00000117450	ens BCL2/adenovirus E1B interacting protein 2 Gene [Source:MGI (curated);Acc:MGI:109327] [ENSMUST00000117450]	0.26	0.034	0.491
4930407110Rik	NM_001166475	ref Mus musculus RIKEN cDNA 4930407110 gene (4930407110Rik), mRNA [NM_001166475]	0.26	0.038	0.499
Map3k14	NM_016896	ref Mus musculus mitogen-activated protein kinase kinase 14 (Map3k14), mRNA [NM_016896]	0.26	0.034	0.493
chr2:153163620-153170845_F	chr2:153163620-153170845_F	lincRNA:chr2:153163620-153170845 forward strand	0.25	0.048	0.516
Park2	NM_016694	ref Mus musculus Parkinson disease (autosomal recessive, juvenile) 2, parkin (Park2), mRNA [NM_016694]	0.25	0.048	0.518
Lins2	NM_152815	ref Mus musculus lines homolog 2 (Drosophila) (Lins2), mRNA [NM_152815]	0.25	0.045	0.513
Zfp36l2	NM_001001806	ref Mus musculus zinc finger protein 36, C3H type-like 2 (Zfp36l2), mRNA [NM_001001806]	0.25	0.044	0.512
Rchy1	NM_026557	ref Mus musculus ring finger and CHY zinc finger domain containing 1 (Rchy1), mRNA [NM_026557]	0.25	0.027	0.472
Rnf220	NM_025739	ref Mus musculus ring finger protein 220 (Rnf220), mRNA [NM_025739]	0.25	0.035	0.495
Sms	NM_009214	ref Mus musculus spermine synthase (Sms), mRNA [NM_009214]	0.25	0.038	0.499
Gm2298	XM_001473075	ref PREDICTED: Mus musculus hypothetical protein LOC100039538 (LOC100039538), mRNA [XM_001473075]	0.25	0.034	0.491
Xpc	NM_009531	ref Mus musculus xeroderma pigmentosum, complementation group C (Xpc), mRNA [NM_009531]	0.25	0.044	0.512
Vps54	NM_139061	ref Mus musculus vacuolar protein sorting 54 (yeast) (Vps54), mRNA [NM_139061]	0.25	0.038	0.499
chr19:23068397-23190256_R	chr19:23068397-23190256_R	lincRNA:chr19:23068397-23190256 reverse strand	0.24	0.046	0.513
Metrn1	NM_144797	ref Mus musculus meteorin, glial cell differentiation regulator-like (Metrn1), mRNA [NM_144797]	0.24	0.031	0.483
Nup50	NM_016714	ref Mus musculus nucleoporin 50 (Nup50), mRNA [NM_016714]	0.24	0.050	0.520
ENSMUST00000100697	ENSMUST00000100697	ref PREDICTED: Mus musculus predicted gene, EG666678 (EG666678), mRNA [XM_985370]	0.24	0.044	0.512
ENSMUST00000101159	ENSMUST00000101159	ens RIKEN cDNA C330024D21 gene Gene [Source:MGI Symbol;Acc:MGI:2444116] [ENSMUST00000101159]	0.24	0.049	0.519
Dis3	NM_028315	ref Mus musculus DIS3 mitotic control homolog (S. cerevisiae) (Dis3), mRNA [NM_028315]	0.24	0.041	0.505
Wt1	NM_144783	ref Mus musculus Wilms tumor 1 homolog (Wt1), mRNA [NM_144783]	0.24	0.045	0.513
Rabggtb	NM_011231	ref Mus musculus RAB geranylgeranyl transferase, b subunit (Rabggtb), transcript variant 1, mRNA [NM_011231]	0.24	0.022	0.451
chr11:51854060-51903278_F	chr11:51854060-51903278_F	lincRNA:chr11:51854060-51903278 forward strand	0.24	0.043	0.510
Mir17hg	NR_029382	ref Mus musculus MIR17 host gene 1 (non-protein coding) (Mir17hg), non-coding RNA [NR_029382]	0.24	0.046	0.513
Rnf181	NM_025607	ref Mus musculus ring finger protein 181 (Rnf181), mRNA [NM_025607]	0.24	0.041	0.507
chr5:122047900-122065325_F	chr5:122047900-122065325_F	lincRNA:chr5:122047900-122065325 forward strand	0.23	0.038	0.499
Gm13161	XM_892400	ref PREDICTED: Mus musculus similar to TLK2 protein (LOC627701), mRNA [XM_892400]	0.23	0.047	0.515

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Bglap	NM_001037939	ref Mus musculus bone gamma carboxyglutamate protein (Bglap), transcript variant 2, mRNA [NM_001037939]	0.23	0.020	0.443
chr13:98221098-98480773_R	chr13:98221098-98480773_R	lincRNA:chr13:98221098-98480773 reverse strand	0.23	0.042	0.507
Ncoa6	NM_019825	ref Mus musculus nuclear receptor coactivator 6 (Ncoa6), mRNA [NM_019825]	0.23	0.040	0.504
Usp7	NM_001003918	ref Mus musculus ubiquitin specific peptidase 7 (Usp7), mRNA [NM_001003918]	0.22	0.044	0.511
Plekha1	NM_133942	ref Mus musculus pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1 (Plekha1), mRNA [NM_133942]	0.22	0.033	0.490
Fbxw11	NM_134015	ref Mus musculus F-box and WD-40 domain protein 11 (Fbxw11), mRNA [NM_134015]	0.22	0.030	0.477
Otud5	NM_138604	ref Mus musculus OTU domain containing 5 (Otud5), mRNA [NM_138604]	0.22	0.038	0.499
ENSMUST00000099365	ENSMUST00000099365	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q3UTF5] [ENSMUST00000099365]	0.22	0.048	0.517
chr6:134879009-134880130_F	chr6:134879009-134880130_F	lincRNA:chr6:134879009-134880130 forward strand	0.22	0.048	0.516
chr11:76400207-76434732_F	chr11:76400207-76434732_F	lincRNA:chr11:76400207-76434732 forward strand	0.22	0.049	0.518
Klhl26	NM_178771	ref Mus musculus kelch-like 26 (Drosophila) (Klhl26), transcript variant 2, mRNA [NM_178771]	0.22	0.020	0.447
Rtn3	NM_001003934	ref Mus musculus reticulon 3 (Rtn3), transcript variant 1, mRNA [NM_001003934]	0.21	0.042	0.508
chr17:6602100-6615425_F	chr17:6602100-6615425_F	lincRNA:chr17:6602100-6615425 forward strand	0.21	0.045	0.513
Cmtm4	NM_153582	ref Mus musculus CKLF-like MARVEL transmembrane domain containing 4 (Cmtm4), mRNA [NM_153582]	0.21	0.035	0.495
Txlna	NM_001005506	ref Mus musculus taxilin alpha (Txlna), mRNA [NM_001005506]	0.21	0.048	0.516
Sepp1	NM_001042614	ref Mus musculus selenoprotein P, plasma, 1 (Sepp1), transcript variant 3, mRNA [NM_001042614]	0.20	0.043	0.511
Wrnip1	NM_030215	ref Mus musculus Werner helicase interacting protein 1 (Wrnip1), mRNA [NM_030215]	0.20	0.041	0.506
Dtna	NM_010087	ref Mus musculus dystrobrevin alpha (Dtna), transcript variant 2, mRNA [NM_010087]	0.19	0.048	0.518
Gm9109	XR_031632	ref PREDICTED: Mus musculus similar to transcriptional adaptor 3-like (LOC676150), misc RNA [XR_031632]	-0.20	0.037	0.496
chr7:106525007-106525661_R	chr7:106525007-106525661_R	lincRNA:chr7:106525007-106525661 reverse strand	-0.20	0.045	0.513
Tial1	NM_009383	ref Mus musculus Tia1 cytotoxic granule-associated RNA binding protein-like 1 (Tial1), mRNA [NM_009383]	-0.20	0.046	0.513
Cnpy3	NM_028065	ref Mus musculus canopy 3 homolog (zebrafish) (Cnpy3), mRNA [NM_028065]	-0.20	0.046	0.514
Ndufb2	ENSMUST00000135671	ens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 2 Gene [Source:MGI (curated);Acc:MGI:1915448] [ENSMUST00000135671]	-0.20	0.039	0.499
Adat3	NM_001100606	ref Mus musculus adenosine deaminase, tRNA-specific 3, TAD2 homolog (S. cerevisiae) (Adat3), mRNA [NM_001100606]	-0.21	0.038	0.499
chrX:47890565-47915775_F	chrX:47890565-47915775_F	lincRNA:chrX:47890565-47915775 forward strand	-0.21	0.048	0.516
Vegfb	NM_011697	ref Mus musculus vascular endothelial growth factor B (Vegfb), transcript variant 1, mRNA [NM_011697]	-0.21	0.039	0.501
Psph	NM_133900	ref Mus musculus phosphoserine phosphatase (Psph), mRNA [NM_133900]	-0.21	0.042	0.508

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Gm8850	XR_002254	ref PREDICTED: Mus musculus predicted gene, EG667867 (EG667867), misc RNA [XR_002254]	-0.22	0.038	0.499
Fam63b	NM_172772	ref Mus musculus family with sequence similarity 63, member B (Fam63b), mRNA [NM_172772]	-0.22	0.041	0.505
Snx11	NM_028965	ref Mus musculus sorting nexin 11 (Snx11), mRNA [NM_028965]	-0.22	0.038	0.498
Mrp63	NM_026401	ref Mus musculus mitochondrial ribosomal protein 63 (Mrp63), nuclear gene encoding mitochondrial protein, mRNA [NM_026401]	-0.22	0.034	0.493
Scand1	NM_020255	ref Mus musculus SCAN domain-containing 1 (Scand1), mRNA [NM_020255]	-0.22	0.037	0.498
Mrps26	NM_207207	ref Mus musculus mitochondrial ribosomal protein S26 (Mrps26), nuclear gene encoding mitochondrial protein, mRNA [NM_207207]	-0.22	0.044	0.511
Ankrd29	NM_001190371	ref Mus musculus ankyrin repeat domain 29 (Ankrd29), mRNA [NM_001190371]	-0.22	0.046	0.513
Dtd1	NM_025314	ref Mus musculus D-tyrosyl-tRNA deacylase 1 homolog (S. cerevisiae) (Dtd1), nuclear gene encoding mitochondrial protein, mRNA [NM_025314]	-0.23	0.043	0.511
Tm7sf2	NM_028454	ref Mus musculus transmembrane 7 superfamily member 2 (Tm7sf2), mRNA [NM_028454]	-0.23	0.036	0.495
4930500F04Rik	AK015658	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930500F04 product:unclassifiable, full insert sequence. [AK015658]	-0.23	0.049	0.519
Cdkl2	NM_016912	ref Mus musculus cyclin-dependent kinase-like 2 (CDC2-related kinase) (Cdkl2), transcript variant 1, mRNA [NM_016912]	-0.23	0.036	0.495
chr10:82074600-82085425_F	chr10:82074600-82085425_F	lincRNA:chr10:82074600-82085425 forward strand	-0.23	0.035	0.495
Enpp5	NM_032003	ref Mus musculus ectonucleotide pyrophosphatase/phosphodiesterase 5 (Enpp5), transcript variant 1, mRNA [NM_032003]	-0.23	0.039	0.501
Nit1	NM_012049	ref Mus musculus nitrilase 1 (Nit1), transcript variant 1, mRNA [NM_012049]	-0.23	0.023	0.456
XM_001479647	XM_001479647	ref PREDICTED: Mus musculus hypothetical protein LOC100043157 (LOC100043157), mRNA [XM_001479647]	-0.23	0.030	0.477
C330006K01Rik	NM_172725	ref Mus musculus RIKEN cDNA C330006K01 gene (C330006K01Rik), mRNA [NM_172725]	-0.23	0.038	0.499
chr4:146017200-146029700_R	chr4:146017200-146029700_R	lincRNA:chr4:146017200-146029700 reverse strand	-0.23	0.043	0.509
Mtag2	NR_027802	ref Mus musculus metastasis associated gene 2 (Mtag2), non-coding RNA [NR_027802]	-0.23	0.028	0.474
Atp11a	NM_015804	ref Mus musculus ATPase, class VI, type 11A (Atp11a), mRNA [NM_015804]	-0.23	0.041	0.505
Cox4i2	NM_053091	ref Mus musculus cytochrome c oxidase subunit IV isoform 2 (Cox4i2), nuclear gene encoding mitochondrial protein, mRNA [NM_053091]	-0.23	0.042	0.507
chr2:25782483-25783075_R	chr2:25782483-25783075_R	lincRNA:chr2:25782483-25783075 reverse strand	-0.24	0.046	0.513
2610008E11Rik	NM_001004362	ref Mus musculus RIKEN cDNA 2610008E11 gene (2610008E11Rik), mRNA [NM_001004362]	-0.24	0.049	0.519
Cox8b	NM_007751	ref Mus musculus cytochrome c oxidase, subunit VIIIb (Cox8b), nuclear gene encoding mitochondrial protein, mRNA [NM_007751]	-0.24	0.036	0.495
Gas1	NM_008086	ref Mus musculus growth arrest specific 1 (Gas1), mRNA [NM_008086]	-0.24	0.046	0.514
Dnajc30	NM_025362	ref Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 30 (Dnajc30), mRNA [NM_025362]	-0.24	0.039	0.500
Sfrp4	NM_016687	ref Mus musculus secreted frizzled-related protein 4 (Sfrp4), mRNA [NM_016687]	-0.24	0.044	0.512
Mtif3	NM_029581	ref Mus musculus mitochondrial translational initiation factor 3 (Mtif3), nuclear gene encoding mitochondrial protein, mRNA [NM_029581]	-0.24	0.031	0.482

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Mrpl47	NM_029017	ref Mus musculus mitochondrial ribosomal protein L47 (Mrpl47), nuclear gene encoding mitochondrial protein, mRNA [NM_029017]	-0.24	0.026	0.470
1700084J12Rik	AK006993	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:1700084J12 product:hypothetical Ribosomal protein L30 containing protein, full insert sequence. [AK006993]	-0.24	0.042	0.508
Map6d1	NM_198599	ref Mus musculus MAP6 domain containing 1 (Map6d1), mRNA [NM_198599]	-0.24	0.037	0.498
Jmjd5	NM_029842	ref Mus musculus jumonji domain containing 5 (Jmjd5), mRNA [NM_029842]	-0.24	0.048	0.518
Cyb5r1	NM_028057	ref Mus musculus cytochrome b5 reductase 1 (Cyb5r1), mRNA [NM_028057]	-0.24	0.038	0.499
Ikbkap	NM_026079	ref Mus musculus inhibitor of kappa light polypeptide enhancer in B-cells, kinase complex-associated protein (Ikbkap), mRNA [NM_026079]	-0.24	0.042	0.508
Gm4546	XM_001480518	ref PREDICTED: Mus musculus hypothetical protein LOC100043605 (LOC100043605), mRNA [XM_001480518]	-0.24	0.049	0.519
chr17:88466300-88495175_F	chr17:88466300-88495175_F	lincRNA:chr17:88466300-88495175 forward strand	-0.24	0.030	0.477
Nsd1	NM_008739	ref Mus musculus nuclear receptor-binding SET-domain protein 1 (Nsd1), mRNA [NM_008739]	-0.24	0.047	0.515
Coro7	NM_030205	ref Mus musculus coronin 7 (Coro7), mRNA [NM_030205]	-0.24	0.035	0.494
Brcc3	NM_145956	ref Mus musculus BRCA1/BRCA2-containing complex, subunit 3 (Brcc3), transcript variant 2, mRNA [NM_145956]	-0.25	0.037	0.496
Caprin1	NM_016739	ref Mus musculus cell cycle associated protein 1 (Caprin1), transcript variant 1, mRNA [NM_016739]	-0.25	0.045	0.513
Fbxo25	NM_025785	ref Mus musculus F-box protein 25 (Fbxo25), mRNA [NM_025785]	-0.25	0.033	0.490
Znhit1	NM_027318	ref Mus musculus zinc finger, HIT domain containing 1 (Znhit1), mRNA [NM_027318]	-0.25	0.033	0.488
Tug1	NR_002322	ref Mus musculus taurine upregulated gene 1 (Tug1), transcript variant b, non-coding RNA [NR_002322]	-0.25	0.049	0.519
Stra13	NM_016665	ref Mus musculus stimulated by retinoic acid 13 (Stra13), mRNA [NM_016665]	-0.25	0.046	0.513
Romo1	NM_001164217	ref Mus musculus reactive oxygen species modulator 1 (Romo1), nuclear gene encoding mitochondrial protein, mRNA [NM_001164217]	-0.25	0.041	0.506
Erp29	NM_026129	ref Mus musculus endoplasmic reticulum protein 29 (Erp29), mRNA [NM_026129]	-0.25	0.045	0.513
Aurkaip1	NM_025338	ref Mus musculus aurora kinase A interacting protein 1 (Aurkaip1), mRNA [NM_025338]	-0.25	0.033	0.490
Polr2k	NM_023127	ref Mus musculus polymerase (RNA) II (DNA directed) polypeptide K (Polr2k), transcript variant 2, mRNA [NM_023127]	-0.25	0.027	0.471
Sdhb	NM_023374	ref Mus musculus succinate dehydrogenase complex, subunit B, iron sulfur (lp) (Sdhb), nuclear gene encoding mitochondrial protein, mRNA [NM_023374]	-0.25	0.014	0.417
Jmjd8	NM_028101	ref Mus musculus jumonji domain containing 8 (Jmjd8), mRNA [NM_028101]	-0.25	0.020	0.445
Lman1	NM_027400	ref Mus musculus lectin, mannose-binding, 1 (Lman1), transcript variant 1, mRNA [NM_027400]	-0.25	0.045	0.513
Chchd1	NM_025366	ref Mus musculus coiled-coil-helix-coiled-coil-helix domain containing 1 (Chchd1), mRNA [NM_025366]	-0.25	0.049	0.519
chr11:69196530-69197001_F	chr11:69196530-69197001_F	lincRNA:chr11:69196530-69197001 forward strand	-0.25	0.044	0.513
BC031181	NM_001001181	ref Mus musculus cDNA sequence BC031181 (BC031181), mRNA [NM_001001181]	-0.25	0.035	0.493
Apba3	NM_018758	ref Mus musculus amyloid beta (A4) precursor protein-binding, family A, member 3 (Apba3), mRNA [NM_018758]	-0.25	0.025	0.466

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Padi4	NM_011061	ref Mus musculus peptidyl arginine deiminase, type IV (Padi4), mRNA [NM_011061]	-0.26	0.048	0.516
Rsl24d1	NM_198609	ref Mus musculus ribosomal L24 domain containing 1 (Rsl24d1), mRNA [NM_198609]	-0.26	0.048	0.516
Mapk1	NM_011949	ref Mus musculus mitogen-activated protein kinase 1 (Mapk1), transcript variant 1, mRNA [NM_011949]	-0.26	0.028	0.476
Ogfod1	NM_177767	ref Mus musculus 2-oxoglutarate and iron-dependent oxygenase domain containing 1 (Ogfod1), transcript variant 1, mRNA [NM_177767]	-0.26	0.042	0.507
LOC100047738	XM_001478788	ref PREDICTED: Mus musculus similar to DENN/MADD domain containing 1A (LOC100047738), mRNA [XM_001478788]	-0.26	0.031	0.480
Dennd4b	NM_201407	ref Mus musculus DENN/MADD domain containing 4B (Dennd4b), mRNA [NM_201407]	-0.26	0.036	0.495
Exosc5	NM_138586	ref Mus musculus exosome component 5 (Exosc5), mRNA [NM_138586]	-0.26	0.043	0.509
Gm3640	XM_001477435	ref PREDICTED: Mus musculus hypothetical protein LOC100042048 (LOC100042048), mRNA [XM_001477435]	-0.26	0.020	0.447
Idh3b	NM_130884	ref Mus musculus isocitrate dehydrogenase 3 (NAD+) beta (Idh3b), nuclear gene encoding mitochondrial protein, mRNA [NM_130884]	-0.26	0.034	0.493
Akr1b3	NM_009658	ref Mus musculus aldo-keto reductase family 1, member B3 (aldose reductase) (Akr1b3), mRNA [NM_009658]	-0.26	0.045	0.513
Rnaseh2b	NM_026001	ref Mus musculus ribonuclease H2, subunit B (Rnaseh2b), mRNA [NM_026001]	-0.27	0.029	0.477
ENSMUST00000098692	ENSMUST00000098692	ens nei endonuclease VIII-like 1 (E. coli) Gene [Source:MGI Symbol;Acc:MGI:1920024] [ENSMUST00000098692]	-0.27	0.026	0.470
chr9:32156266-32169196_F	chr9:32156266-32169196_F	lincRNA:chr9:32156266-32169196 forward strand	-0.27	0.029	0.477
Ttc28	NM_024477	ref Mus musculus tetratricopeptide repeat domain 28 (Ttc28), mRNA [NM_024477]	-0.27	0.030	0.478
chr6:31267612-31293337_R	chr6:31267612-31293337_R	lincRNA:chr6:31267612-31293337 reverse strand	-0.27	0.049	0.519
5730408K05Rik	AK017527	gb Mus musculus 8 days embryo whole body cDNA, RIKEN full-length enriched library, clone:5730408K05 product:unclassifiable, full insert sequence. [AK017527]	-0.27	0.042	0.508
Slc39a3	NM_134135	ref Mus musculus solute carrier family 39 (zinc transporter), member 3 (Slc39a3), mRNA [NM_134135]	-0.27	0.046	0.513
1700034H14Rik	NM_025969	ref Mus musculus RIKEN cDNA 1700034H14 gene (1700034H14Rik), mRNA [NM_025969]	-0.27	0.044	0.513
ENSMUST00000112413	ENSMUST00000112413	ens proacrosin binding protein Gene [Source:MGI (curated);Acc:MGI:1859515] [ENSMUST00000112413]	-0.27	0.043	0.510
Acn9	NM_001077713	ref Mus musculus ACN9 homolog (S. cerevisiae) (Acn9), mRNA [NM_001077713]	-0.27	0.029	0.477
Gm7075	XM_905848	ref PREDICTED: Mus musculus predicted gene, EG631906 (EG631906), mRNA [XM_905848]	-0.27	0.032	0.485
1810030N24Rik	NM_025471	ref Mus musculus RIKEN cDNA 1810030N24 gene (1810030N24Rik), mRNA [NM_025471]	-0.27	0.026	0.470
Mtch1	NM_019880	ref Mus musculus mitochondrial carrier homolog 1 (C. elegans) (Mtch1), nuclear gene encoding mitochondrial protein, mRNA [NM_019880]	-0.27	0.042	0.507
Wdr8	NM_021499	ref Mus musculus WD repeat domain 8 (Wdr8), mRNA [NM_021499]	-0.27	0.041	0.506
chr10:3227840-3233588_R	chr10:3227840-3233588_R	lincRNA:chr10:3227840-3233588 reverse strand	-0.27	0.035	0.494
chr13:48576557-48581836_F	chr13:48576557-48581836_F	lincRNA:chr13:48576557-48581836 forward strand	-0.27	0.028	0.474
1700071K01Rik	NM_001033765	ref Mus musculus RIKEN cDNA 1700071K01 gene (1700071K01Rik), mRNA [NM_001033765]	-0.27	0.015	0.421
9930111J21Rik2	NM_173434	ref Mus musculus RIKEN cDNA 9930111J21 gene 2 (9930111J21Rik2), mRNA [NM_173434]	-0.28	0.044	0.511

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Pafah1b1	NM_013625	ref Mus musculus platelet-activating factor acetylhydrolase, isoform 1b, subunit 1 (Pafah1b1), mRNA [NM_013625]	-0.28	0.026	0.471
Lrsam1	NM_199302	ref Mus musculus leucine rich repeat and sterile alpha motif containing 1 (Lrsam1), mRNA [NM_199302]	-0.28	0.033	0.487
Muted	NM_139063	ref Mus musculus muted (Muted), mRNA [NM_139063]	-0.28	0.043	0.511
chr10:6081900-6105500_F	chr10:6081900-6105500_F	lincRNA:chr10:6081900-6105500 forward strand	-0.28	0.049	0.519
Esr1	NM_007956	ref Mus musculus estrogen receptor 1 (alpha) (Esr1), mRNA [NM_007956]	-0.28	0.026	0.469
5430402P08Rik	AK017263	gb Mus musculus 6 days neonate head cDNA, RIKEN full-length enriched library, clone:5430402P08 product:unclassifiable, full insert sequence. [AK017263]	-0.28	0.047	0.514
ENSMUST00000111210	ENSMUST00000111210	ens interferon activated gene 203 Gene [Source:MGI (curated);Acc:MGI:96428] [ENSMUST00000111210]	-0.28	0.039	0.501
LOC100048160	XM_001479663	ref PREDICTED: Mus musculus hypothetical protein LOC100048160 (LOC100048160), mRNA [XM_001479663]	-0.28	0.040	0.501
ENSMUST00000145391	ENSMUST00000145391	ens PDZ domain containing 7 Gene [Source:MGI (curated);Acc:MGI:3608325] [ENSMUST00000145391]	-0.28	0.039	0.501
Rprm	NM_023396	ref Mus musculus reprimin, TP53 dependent G2 arrest mediator candidate (Rprm), mRNA [NM_023396]	-0.28	0.033	0.487
Tbx21	NM_019507	ref Mus musculus T-box 21 (Tbx21), mRNA [NM_019507]	-0.28	0.050	0.520
LOC100045228	ENSMUST00000151528	ens neurologin 3 Gene [Source:MGI (curated);Acc:MGI:2444609] [ENSMUST00000151528]	-0.28	0.045	0.513
Ndufa5	NM_026614	ref Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5 (Ndufa5), nuclear gene encoding mitochondrial protein, mRNA [NM_026614]	-0.28	0.045	0.513
Eps8l1	NM_026146	ref Mus musculus EPS8-like 1 (Eps8l1), mRNA [NM_026146]	-0.28	0.017	0.435
Gm2375	XM_001473352	ref PREDICTED: Mus musculus hypothetical protein LOC100039697 (LOC100039697), mRNA [XM_001473352]	-0.28	0.023	0.456
Acrbp	NM_016845	ref Mus musculus proacrosin binding protein (Acrbp), transcript variant 1, mRNA [NM_016845]	-0.28	0.033	0.490
1700007I08Rik	NM_001171640	ref Mus musculus RIKEN cDNA 1700007I08 gene (1700007I08Rik), mRNA [NM_001171640]	-0.28	0.008	0.391
Slc35a1	NM_011895	ref Mus musculus solute carrier family 35 (CMP-sialic acid transporter), member 1 (Slc35a1), mRNA [NM_011895]	-0.28	0.046	0.513
LOC100048244	XM_001479844	ref PREDICTED: Mus musculus similar to HBxAg transactivated protein 2 (LOC100048244), mRNA [XM_001479844]	-0.29	0.030	0.480
ENSMUST00000089098	ENSMUST00000089098	ens Putative uncharacterized proteinMGC58416 protein ; [Source:UniProtKB/TrEMBL;Acc:Q8BIG3] [ENSMUST00000089098]	-0.29	0.038	0.498
chr17:95255725-95272425_R	chr17:95255725-95272425_R	lincRNA:chr17:95255725-95272425 reverse strand	-0.29	0.038	0.498
chr7:134779841-134840591_F	chr7:134779841-134840591_F	lincRNA:chr7:134779841-134840591 forward strand	-0.29	0.034	0.491
chr14:26973425-26986650_R	chr14:26973425-26986650_R	lincRNA:chr14:26973425-26986650 reverse strand	-0.29	0.031	0.482
chr1:175705225-175717250_R	chr1:175705225-175717250_R	lincRNA:chr1:175705225-175717250 reverse strand	-0.29	0.014	0.414
chr7:88126007-88138301_R	chr7:88126007-88138301_R	lincRNA:chr7:88126007-88138301 reverse strand	-0.29	0.046	0.513
ENSMUST00000101635	ENSMUST00000101635	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UCH3] [ENSMUST00000101635]	-0.29	0.026	0.468
Mamstr	NM_172418	ref Mus musculus MEF2 activating motif and SAP domain containing transcriptional regulator (Mamstr), mRNA [NM_172418]	-0.29	0.028	0.474

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr5:35492530-35492959_R	chr5:35492530-35492959_R	lincRNA:chr5:35492530-35492959 reverse strand	-0.29	0.047	0.515
chrX:148720661-148763177_F	chrX:148720661-148763177_F	lincRNA:chrX:148720661-148763177 forward strand	-0.29	0.020	0.447
chr1:138442536-138521080_F	chr1:138442536-138521080_F	lincRNA:chr1:138442536-138521080 forward strand	-0.29	0.043	0.511
Gm13642	XM_001474344	ref PREDICTED: Mus musculus similar to nuclear protein-NHP2-like protein (LOC100040177), mRNA [XM_001474344]	-0.29	0.034	0.491
Gm9856	BC011411	gb Mus musculus transmembrane protein 42, mRNA (cDNA clone IMAGE:2651504), with apparent retained intron. [BC011411]	-0.29	0.028	0.475
chr1:175705225-175717250_F	chr1:175705225-175717250_F	lincRNA:chr1:175705225-175717250 forward strand	-0.29	0.041	0.505
Dnajc24	NM_026992	ref Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 24 (Dnajc24), mRNA [NM_026992]	-0.29	0.038	0.499
chr11:117835849-117842574_R	chr11:117835849-117842574_R	lincRNA:chr11:117835849-117842574 reverse strand	-0.29	0.032	0.486
Hspa14	NM_015765	ref Mus musculus heat shock protein 14 (Hspa14), transcript variant 1, mRNA [NM_015765]	-0.29	0.045	0.513
Ak1	NM_021515	ref Mus musculus adenylate kinase 1 (Ak1), mRNA [NM_021515]	-0.29	0.034	0.491
Tm9sf4	NM_133847	ref Mus musculus transmembrane 9 superfamily protein member 4 (Tm9sf4), mRNA [NM_133847]	-0.29	0.010	0.401
chrX:135882029-135892277_R	chrX:135882029-135892277_R	lincRNA:chrX:135882029-135892277 reverse strand	-0.29	0.017	0.433
Nmnat1	NM_133435	ref Mus musculus nicotinamide nucleotide adenyltransferase 1 (Nmnat1), mRNA [NM_133435]	-0.29	0.042	0.508
LOC100045797	XM_001474950	ref PREDICTED: Mus musculus hypothetical protein LOC100045797 (LOC100045797), mRNA [XM_001474950]	-0.29	0.048	0.516
chr18:84735774-84760824_F	chr18:84735774-84760824_F	lincRNA:chr18:84735774-84760824 forward strand	-0.29	0.048	0.518
B930041F14Rik	NM_178699	ref Mus musculus RIKEN cDNA B930041F14 gene (B930041F14Rik), mRNA [NM_178699]	-0.30	0.043	0.510
Ikzf4	NM_011772	ref Mus musculus IKAROS family zinc finger 4 (Ikzf4), mRNA [NM_011772]	-0.30	0.043	0.509
ENSMUST00000051301	ENSMUST00000051301	ens purine rich element binding protein A Gene [Source:MGI (curated);Acc:MGI:103079] [ENSMUST00000051301]	-0.30	0.029	0.477
Shf	NM_001013829	ref Mus musculus Src homology 2 domain containing F (Shf), mRNA [NM_001013829]	-0.30	0.034	0.491
Nsun6	NM_001165941	ref Mus musculus NOL1/NOP2/Sun domain family member 6 (Nsun6), transcript variant 1, mRNA [NM_001165941]	-0.30	0.018	0.435
Dgat2	NM_026384	ref Mus musculus diacylglycerol O-acyltransferase 2 (Dgat2), mRNA [NM_026384]	-0.30	0.044	0.512
Pdpf	NM_025598	ref Mus musculus pancreatic progenitor cell differentiation and proliferation factor homolog (zebrafish)RIKEN cDNA 2700038C09 gene (Pdpf), mRNA [NM_025598]	-0.30	0.045	0.513
Nagk	NM_019542	ref Mus musculus N-acetylglucosamine kinase (Nagk), transcript variant 1, mRNA [NM_019542]	-0.30	0.021	0.448
Hmgn3	NM_175074	ref Mus musculus high mobility group nucleosomal binding domain 3 (Hmgn3), transcript variant b, mRNA [NM_175074]	-0.30	0.036	0.495
Steap3	NM_001085409	ref Mus musculus STEAP family member 3 (Steap3), transcript variant 1, mRNA [NM_001085409]	-0.30	0.039	0.501
Adh5	NM_007410	ref Mus musculus alcohol dehydrogenase 5 (class III), chi polypeptide (Adh5), mRNA [NM_007410]	-0.30	0.031	0.483
Naip2	NM_010872	ref Mus musculus NLR family, apoptosis inhibitory protein 2 (Naip2), transcript variant 1, mRNA [NM_010872]	-0.30	0.044	0.513

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Gm14326	NM_001190302	ref Mus musculus predicted gene 14326 (Gm14326), mRNA [NM_001190302]	-0.30	0.024	0.459
Olf1489	NM_146635	ref Mus musculus olfactory receptor 1489 (Olf1489), mRNA [NM_146635]	-0.30	0.023	0.456
Hebp1	NM_013546	ref Mus musculus heme binding protein 1 (Hebp1), mRNA [NM_013546]	-0.31	0.029	0.477
Ankmy2	NM_146033	ref Mus musculus ankyrin repeat and MYND domain containing 2 (Ankmy2), mRNA [NM_146033]	-0.31	0.032	0.484
1110006G14Rik	ENSMUST00000032900	ens RIKEN cDNA 1110006G14 gene Gene [Source:MGI Symbol;Acc:MGI:1915719] [ENSMUST00000032900]	-0.31	0.047	0.516
chr9:27148989-27155714_F	chr9:27148989-27155714_F	lincRNA:chr9:27148989-27155714 forward strand	-0.31	0.040	0.503
Kcnk4	NM_008431	ref Mus musculus potassium channel, subfamily K, member 4 (Kcnk4), mRNA [NM_008431]	-0.31	0.036	0.495
ENSMUST00000103635	ENSMUST00000103635	ens TRADV14D-3 Fragment [Source:UniProtKB/TrEMBL;Acc:Q5R1E9] [ENSMUST00000103635]	-0.31	0.040	0.502
Cplx4	NM_145493	ref Mus musculus complexin 4 (Cplx4), mRNA [NM_145493]	-0.31	0.039	0.500
D330012F22Rik	NM_178752	ref Mus musculus RIKEN cDNA D330012F22 gene (D330012F22Rik), mRNA [NM_178752]	-0.31	0.040	0.502
Zdhhc2	ENSMUST00000049389	ens zinc finger, DHHC domain containing 2 Gene [Source:MGI (curated);Acc:MGI:1923452] [ENSMUST00000049389]	-0.31	0.023	0.453
Gm16506	XM_001472163	ref PREDICTED: Mus musculus hypothetical LOC673132 (LOC673132), mRNA [XM_001472163]	-0.31	0.017	0.435
Dbx1	NM_001005232	ref Mus musculus developing brain homeobox 1 (Dbx1), mRNA [NM_001005232]	-0.31	0.049	0.518
Rasal3	NM_178785	ref Mus musculus RAS protein activator like 3 (Rasal3), mRNA [NM_178785]	-0.31	0.033	0.487
Apbb2	NM_009686	ref Mus musculus amyloid beta (A4) precursor protein-binding, family B, member 2 (Apbb2), mRNA [NM_009686]	-0.31	0.036	0.495
chr8:113968152-113973727_R	chr8:113968152-113973727_R	lincRNA:chr8:113968152-113973727 reverse strand	-0.31	0.034	0.492
chr7:77555482-77634858_F	chr7:77555482-77634858_F	lincRNA:chr7:77555482-77634858 forward strand	-0.32	0.050	0.520
Gm8443	XM_976962	ref PREDICTED: Mus musculus predicted gene, EG667072 (EG667072), mRNA [XM_976962]	-0.32	0.046	0.513
Cisd3	NM_001085500	ref Mus musculus CDGSH iron sulfur domain 3 (Cisd3), mRNA [NM_001085500]	-0.32	0.011	0.406
chr1:85036677-85038530_R	chr1:85036677-85038530_R	lincRNA:chr1:85036677-85038530 reverse strand	-0.32	0.044	0.512
9430078G10Rik	XR_035208	ref PREDICTED: Mus musculus RIKEN cDNA 9430078G10 gene (9430078G10Rik), misc RNA [XR_035208]	-0.32	0.019	0.441
4930404N11Rik	NM_001014836	ref Mus musculus RIKEN cDNA 4930404N11 gene (4930404N11Rik), mRNA [NM_001014836]	-0.32	0.021	0.448
Qrfpr	NM_198192	ref Mus musculus pyroglutamylated RFamide peptide receptor (Qrfpr), mRNA [NM_198192]	-0.32	0.019	0.441
Tmem170	NM_025781	ref Mus musculus transmembrane protein 170 (Tmem170), mRNA [NM_025781]	-0.32	0.042	0.508
Nrip2	NM_021717	ref Mus musculus nuclear receptor interacting protein 2 (Nrip2), transcript variant 2, mRNA [NM_021717]	-0.32	0.048	0.516
Tmem14a	NM_029398	ref Mus musculus transmembrane protein 14A (Tmem14a), mRNA [NM_029398]	-0.32	0.034	0.493
Me2	NM_145494	ref Mus musculus malic enzyme 2, NAD(+)-dependent, mitochondrial (Me2), nuclear gene encoding mitochondrial protein, mRNA [NM_145494]	-0.32	0.042	0.509
5033421B08Rik	AK050516	gb Mus musculus adult pancreas islet cells cDNA, RIKEN full-length enriched library, clone:C820006M04 product:unclassifiable, full insert sequence. [AK050516]	-0.32	0.031	0.481

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Kif5a	NM_001039000	ref Mus musculus kinesin family member 5A (Kif5a), transcript variant 1, mRNA [NM_001039000]	-0.32	0.040	0.502
chr11:95644899-95658549_R	chr11:95644899-95658549_R	lincRNA:chr11:95644899-95658549 reverse strand	-0.32	0.046	0.513
chr1:166985480-166986024_R	chr1:166985480-166986024_R	lincRNA:chr1:166985480-166986024 reverse strand	-0.32	0.050	0.520
chr15:84737071-84753414_R	chr15:84737071-84753414_R	lincRNA:chr15:84737071-84753414 reverse strand	-0.32	0.045	0.513
LOC100046982	XM_001477182	ref PREDICTED: Mus musculus hypothetical protein LOC100046982 (LOC100046982), mRNA [XM_001477182]	-0.32	0.035	0.494
chr2:33496712-33501183_F	chr2:33496712-33501183_F	lincRNA:chr2:33496712-33501183 forward strand	-0.32	0.023	0.454
Mrpl35	NM_025430	ref Mus musculus mitochondrial ribosomal protein L35 (Mrpl35), nuclear gene encoding mitochondrial protein, mRNA [NM_025430]	-0.32	0.045	0.513
1700113122Rik	NM_026865	ref Mus musculus RIKEN cDNA 1700113122 gene (1700113122Rik), mRNA [NM_026865]	-0.32	0.032	0.486
ENSMUST0000011274	ENSMUST0000011274	ens PR domain containing 11 Gene [Source:MGI (curated);Acc:MGI:2685553] [ENSMUST0000011274]	-0.33	0.016	0.426
Gm3932	XM_001479076	ref PREDICTED: Mus musculus hypothetical protein LOC100042616 (LOC100042616), mRNA [XM_001479076]	-0.33	0.041	0.505
LOC100045192	XM_001473826	ref PREDICTED: Mus musculus similar to Pdxx protein (LOC100045192), mRNA [XM_001473826]	-0.33	0.045	0.513
Angptl6	NM_145154	ref Mus musculus angiopoietin-like 6 (Angptl6), mRNA [NM_145154]	-0.33	0.039	0.499
Mtfmt	NM_027134	ref Mus musculus mitochondrial methionyl-tRNA formyltransferase (Mtfmt), nuclear gene encoding mitochondrial protein, mRNA [NM_027134]	-0.33	0.046	0.513
chr4:131905739-131910814_F	chr4:131905739-131910814_F	lincRNA:chr4:131905739-131910814 forward strand	-0.33	0.050	0.520
Gm2239	XM_001472897	ref PREDICTED: Mus musculus hypothetical protein LOC100039445 (LOC100039445), mRNA [XM_001472897]	-0.33	0.026	0.468
chr12:110944403-110988678_R	chr12:110944403-110988678_R	lincRNA:chr12:110944403-110988678 reverse strand	-0.33	0.023	0.453
chr17:27877526-27878437_F	chr17:27877526-27878437_F	lincRNA:chr17:27877526-27878437 forward strand	-0.33	0.043	0.510
chr4:126009815-126015875_F	chr4:126009815-126015875_F	lincRNA:chr4:126009815-126015875 forward strand	-0.33	0.024	0.459
Fv1	NM_010244	ref Mus musculus Friend virus susceptibility 1 (Fv1), mRNA [NM_010244]	-0.33	0.024	0.459
chr15:43363046-43364763_F	chr15:43363046-43364763_F	lincRNA:chr15:43363046-43364763 forward strand	-0.33	0.025	0.464
Iqce	NM_028833	ref Mus musculus IQ motif containing E (Iqce), mRNA [NM_028833]	-0.33	0.025	0.467
Tex28	NM_001126488	ref Mus musculus testis expressed 28 (Tex28), mRNA [NM_001126488]	-0.33	0.049	0.518
chr6:23105525-23118900_F	chr6:23105525-23118900_F	lincRNA:chr6:23105525-23118900 forward strand	-0.33	0.024	0.458
Gzmg	NM_010375	ref Mus musculus granzyme G (Gzmg), mRNA [NM_010375]	-0.33	0.044	0.511
Tmem223	NM_025791	ref Mus musculus transmembrane protein 223 (Tmem223), mRNA [NM_025791]	-0.33	0.021	0.449
2900005J15Rik	NR_027851	ref Mus musculus RIKEN cDNA 2900005J15 gene (2900005J15Rik), non-coding RNA [NR_027851]	-0.33	0.020	0.447
Zfp454	NM_172794	ref Mus musculus zinc finger protein 454 (Zfp454), mRNA [NM_172794]	-0.33	0.012	0.408
ENSMUST00000152206	ENSMUST00000152206	ens CUB and Sushi multiple domains 2 Gene [Source:MGI (curated);Acc:MGI:2386401] [ENSMUST00000152206]	-0.33	0.047	0.515
Mapk13	NM_011950	ref Mus musculus mitogen-activated protein kinase 13 (Mapk13), mRNA [NM_011950]	-0.33	0.025	0.465

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Naprt1	NM_172607	ref Mus musculus nicotinate phosphoribosyltransferase domain containing 1 (Naprt1), mRNA [NM_172607]	-0.33	0.017	0.435
ENSMUST00000116196	ENSMUST00000116196	ens Myoglobin [Source:UniProtKB/TrEMBL;Acc:Q61936] [ENSMUST00000116196]	-0.33	0.046	0.513
ENSMUST00000117253	ENSMUST00000117253	ens latrophilin 3 Gene [Source:MGI (curated);Acc:MGI:2441950] [ENSMUST00000117253]	-0.33	0.030	0.477
chr7:28592214-28605984_F	chr7:28592214-28605984_F	lincRNA:chr7:28592214-28605984 forward strand	-0.33	0.047	0.515
chr6:5311375-5328075_R	chr6:5311375-5328075_R	lincRNA:chr6:5311375-5328075 reverse strand	-0.33	0.048	0.516
Mfsd7a	NM_172883	ref Mus musculus major facilitator superfamily domain containing 7A (Mfsd7a), mRNA [NM_172883]	-0.33	0.047	0.515
LOC100044731	XM_001472942	ref PREDICTED: Mus musculus similar to EF hand domain family, member B (LOC100044731), mRNA [XM_001472942]	-0.33	0.038	0.499
Nudt16l1	NM_025839	ref Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 16-like 1 (Nudt16l1), mRNA [NM_025839]	-0.33	0.021	0.448
chr3:30099759-30133959_R	chr3:30099759-30133959_R	lincRNA:chr3:30099759-30133959 reverse strand	-0.33	0.031	0.482
Dido1	NM_177852	ref Mus musculus death inducer-obliterator 1 (Dido1), transcript variant 2, mRNA [NM_177852]	-0.33	0.047	0.515
Pdgfc	NM_019971	ref Mus musculus platelet-derived growth factor, C polypeptide (Pdgfc), mRNA [NM_019971]	-0.33	0.010	0.400
Efcab1	NM_025769	ref Mus musculus EF hand calcium binding domain 1 (Efcab1), mRNA [NM_025769]	-0.33	0.033	0.489
Bmp5	NM_007555	ref Mus musculus bone morphogenetic protein 5 (Bmp5), mRNA [NM_007555]	-0.33	0.048	0.518
Strc	NM_080459	ref Mus musculus stereocilin (Strc), mRNA [NM_080459]	-0.33	0.042	0.508
Tspan6	NM_019656	ref Mus musculus tetraspanin 6 (Tspan6), mRNA [NM_019656]	-0.34	0.047	0.515
LOC100048865	XM_001474385	ref PREDICTED: Mus musculus hypothetical protein LOC100048865 (LOC100048865), mRNA [XM_001474385]	-0.34	0.048	0.516
Tceal6	NM_025355	ref Mus musculus transcription elongation factor A (SII)-like 6 (Tceal6), mRNA [NM_025355]	-0.34	0.046	0.513
Gm3993	XM_001478694	ref PREDICTED: Mus musculus similar to Predicted gene, EG245297 (LOC100042727), mRNA [XM_001478694]	-0.34	0.050	0.520
ENSMUST00000055275	ENSMUST00000055275	ens kinesin family member 23 Gene [Source:MGI Symbol;Acc:MGI:1919069] [ENSMUST00000055275]	-0.34	0.040	0.502
Phc3	NM_153421	ref Mus musculus polyhomeotic-like 3 (Drosophila) (Phc3), transcript variant 2, mRNA [NM_153421]	-0.34	0.043	0.509
chr13:108548345-108679004_F	chr13:108548345-108679004_F	lincRNA:chr13:108548345-108679004 forward strand	-0.34	0.049	0.519
LOC100047875	XM_001479044	ref PREDICTED: Mus musculus similar to Hspd1 protein (LOC100047875), mRNA [XM_001479044]	-0.34	0.016	0.426
Tnfrsf14	NM_178931	ref Mus musculus tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator) (Tnfrsf14), mRNA [NM_178931]	-0.34	0.027	0.472
Snx16	NM_029068	ref Mus musculus sorting nexin 16 (Snx16), transcript variant 1, mRNA [NM_029068]	-0.34	0.018	0.436
1700045I19Rik	NR_003640	ref Mus musculus RIKEN cDNA 1700045I19 gene (1700045I19Rik), non-coding RNA [NR_003640]	-0.34	0.029	0.477
Gm347	NM_001005420	ref Mus musculus predicted gene 347 (Gm347), mRNA [NM_001005420]	-0.34	0.038	0.499
Sdsl	NM_133902	ref Mus musculus serine dehydratase-like (Sdsl), mRNA [NM_133902]	-0.34	0.026	0.469
chr17:79042382-79051807_F	chr17:79042382-79051807_F	lincRNA:chr17:79042382-79051807 forward strand	-0.34	0.050	0.519
chr16:93121505-93142255_F	chr16:93121505-93142255_F	lincRNA:chr16:93121505-93142255 forward strand	-0.34	0.046	0.513

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Gm4122	XM_001478083	ref PREDICTED: Mus musculus similar to RNP particle component (LOC100047272), mRNA [XM_001478083]	-0.34	0.044	0.512
Tdpz3	NM_207271	ref Mus musculus TD and POZ domain containing 3 (Tdpz3), mRNA [NM_207271]	-0.34	0.036	0.495
Hs6st2	NM_001077202	ref Mus musculus heparan sulfate 6-O-sulfotransferase 2 (Hs6st2), transcript variant 1, mRNA [NM_001077202]	-0.34	0.019	0.439
Il17d	NM_145837	ref Mus musculus interleukin 17D (Il17d), mRNA [NM_145837]	-0.34	0.027	0.471
chr14:78214602-78226287_F	chr14:78214602-78226287_F	lincRNA:chr14:78214602-78226287 forward strand	-0.34	0.029	0.477
Rad9	NM_011237	ref Mus musculus RAD9 homolog (S. pombe) (Rad9), mRNA [NM_011237]	-0.34	0.017	0.435
Krtap16-7	NM_028621	ref Mus musculus keratin associated protein 16-7 (Krtap16-7), mRNA [NM_028621]	-0.34	0.029	0.477
Hist1h2ah	NM_175659	ref Mus musculus histone cluster 1, H2ah (Hist1h2ah), mRNA [NM_175659]	-0.34	0.049	0.518
chr10:120336296-120354471_F	chr10:120336296-120354471_F	lincRNA:chr10:120336296-120354471 forward strand	-0.34	0.021	0.448
chr10:18036490-18059965_R	chr10:18036490-18059965_R	lincRNA:chr10:18036490-18059965 reverse strand	-0.34	0.012	0.409
Pth	NM_020623	ref Mus musculus parathyroid hormone (Pth), mRNA [NM_020623]	-0.34	0.044	0.512
Aim2	NM_001013779	ref Mus musculus absent in melanoma 2 (Aim2), mRNA [NM_001013779]	-0.35	0.049	0.518
Ttc5	NM_001080949	ref Mus musculus tetratricopeptide repeat domain 5 (Ttc5), transcript variant 1, mRNA [NM_001080949]	-0.35	0.015	0.421
Dnajc24	NM_026992	ref Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 24 (Dnajc24), mRNA [NM_026992]	-0.35	0.040	0.502
Zc4h2	NM_001003916	ref Mus musculus zinc finger, C4H2 domain containing (Zc4h2), mRNA [NM_001003916]	-0.35	0.039	0.500
chr16:91174611-91200786_F	chr16:91174611-91200786_F	lincRNA:chr16:91174611-91200786 forward strand	-0.35	0.024	0.458
Ly86	NM_010745	ref Mus musculus lymphocyte antigen 86 (Ly86), mRNA [NM_010745]	-0.35	0.028	0.476
chr12:55417150-55418002_R	chr12:55417150-55418002_R	lincRNA:chr12:55417150-55418002 reverse strand	-0.35	0.043	0.509
Exosc7	NM_001081188	ref Mus musculus exosome component 7 (Exosc7), mRNA [NM_001081188]	-0.35	0.042	0.507
LOC433064	XM_001476964	ref PREDICTED: Mus musculus similar to U-snRNP-associated cyclophilin (LOC433064), mRNA [XM_001476964]	-0.35	0.029	0.477
Zfp84	NM_023750	ref Mus musculus zinc finger protein 84 (Zfp84), mRNA [NM_023750]	-0.35	0.036	0.496
Bcl2l12	NM_029410	ref Mus musculus BCL2-like 12 (proline rich) (Bcl2l12), mRNA [NM_029410]	-0.35	0.040	0.504
C7	XM_356827	ref PREDICTED: Mus musculus complement component 7 (C7), mRNA [XM_356827]	-0.35	0.011	0.407
Tsr2	NM_001164578	ref Mus musculus TSR2, 20S rRNA accumulation, homolog (S. cerevisiae) (Tsr2), transcript variant 1, mRNA [NM_001164578]	-0.35	0.028	0.476
chr5:33773842-33942967_F	chr5:33773842-33942967_F	lincRNA:chr5:33773842-33942967 forward strand	-0.35	0.013	0.412
Ptptrt	NM_021464	ref Mus musculus protein tyrosine phosphatase, receptor type, T (Ptptrt), mRNA [NM_021464]	-0.35	0.038	0.499
Rngtt	NM_011884	ref Mus musculus RNA guanylyltransferase and 5'-phosphatase (Rngtt), mRNA [NM_011884]	-0.35	0.037	0.496
Gm12171	NM_001163353	ref Mus musculus predicted gene 12171 (Gm12171), mRNA [NM_001163353]	-0.35	0.033	0.487
Gm3806	XM_001478568	ref PREDICTED: Mus musculus similar to LOC434536 protein (LOC100042368), mRNA [XM_001478568]	-0.35	0.045	0.513
Cpxm1	NM_019696	ref Mus musculus carboxypeptidase X 1 (M14 family) (Cpxm1), mRNA [NM_019696]	-0.35	0.012	0.412
chr14:77511189-77522852_F	chr14:77511189-77522852_F	lincRNA:chr14:77511189-77522852 forward strand	-0.35	0.021	0.449

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Xaf1	NM_001037713	ref Mus musculus XIAP associated factor 1 (Xaf1), mRNA [NM_001037713]	-0.35	0.047	0.515
Col4a4	NM_007735	ref Mus musculus collagen, type IV, alpha 4 (Col4a4), mRNA [NM_007735]	-0.35	0.027	0.471
chr17:74595885-74597555_R	chr17:74595885-74597555_R	lincRNA:chr17:74595885-74597555 reverse strand	-0.35	0.044	0.512
Pdpf	NM_025598	ref Mus musculus pancreatic progenitor cell differentiation and proliferation factor homolog (zebrafish)RIKEN cDNA 2700038C09 gene (Pdpf), mRNA [NM_025598]	-0.35	0.022	0.453
Fam26f	NM_175449	ref Mus musculus family with sequence similarity 26, member F (Fam26f), mRNA [NM_175449]	-0.35	0.016	0.426
chr7:111526943-111545093_R	chr7:111526943-111545093_R	lincRNA:chr7:111526943-111545093 reverse strand	-0.35	0.049	0.519
Reps2	NM_178256	ref Mus musculus RALBP1 associated Eps domain containing protein 2 (Reps2), mRNA [NM_178256]	-0.35	0.028	0.476
chr4:126009815-126015875_F	chr4:126009815-126015875_F	lincRNA:chr4:126009815-126015875 forward strand	-0.35	0.041	0.505
chr6:116092274-116144199_R	chr6:116092274-116144199_R	lincRNA:chr6:116092274-116144199 reverse strand	-0.36	0.038	0.499
Smoc2	NM_022315	ref Mus musculus SPARC related modular calcium binding 2 (Smoc2), mRNA [NM_022315]	-0.36	0.021	0.448
ENSMUST00000087544	ENSMUST00000087544	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q8BSU0] [ENSMUST00000087544]	-0.36	0.013	0.412
chrX:93157194-93160542_R	chrX:93157194-93160542_R	lincRNA:chrX:93157194-93160542 reverse strand	-0.36	0.026	0.470
9330159F19Rik	NM_001162537	ref Mus musculus RIKEN cDNA 9330159F19 gene (9330159F19Rik), mRNA [NM_001162537]	-0.36	0.025	0.463
chr17:17492400-17507525_F	chr17:17492400-17507525_F	lincRNA:chr17:17492400-17507525 forward strand	-0.36	0.041	0.505
B4galnt4	NM_177897	ref Mus musculus beta-1,4-N-acetyl-galactosaminyl transferase 4 (B4galnt4), mRNA [NM_177897]	-0.36	0.044	0.512
chr1:35034564-35047457_R	chr1:35034564-35047457_R	lincRNA:chr1:35034564-35047457 reverse strand	-0.36	0.025	0.466
chr3:51804655-51805883_R	chr3:51804655-51805883_R	lincRNA:chr3:51804655-51805883 reverse strand	-0.36	0.014	0.412
A830049F12Rik	XM_001475069	ref PREDICTED: Mus musculus RIKEN cDNA A830049F12 gene (A830049F12Rik), mRNA [XM_001475069]	-0.36	0.038	0.498
Arntl2	NM_172309	ref Mus musculus aryl hydrocarbon receptor nuclear translocator-like 2 (Arntl2), mRNA [NM_172309]	-0.36	0.013	0.412
A430034D21Rik	AK042193	gb Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630068K02 product:unclassifiable, full insert sequence. [AK042193]	-0.36	0.039	0.501
chr2:129416848-129417413_R	chr2:129416848-129417413_R	lincRNA:chr2:129416848-129417413 reverse strand	-0.36	0.037	0.497
ENSMUST00000101104	ENSMUST00000101104	ens tumor necrosis factor receptor superfamily, member 13b Gene [Source:MGI (curated);Acc:MGI:1889411] [ENSMUST00000101104]	-0.36	0.042	0.507
Olf1250	NM_146965	ref Mus musculus olfactory receptor 1250 (Olf1250), mRNA [NM_146965]	-0.36	0.044	0.511
Gm4320	XM_001479624	ref PREDICTED: Mus musculus hypothetical protein LOC100043258 (LOC100043258), mRNA [XM_001479624]	-0.36	0.015	0.423
Gramd2	NM_001033498	ref Mus musculus GRAM domain containing 2 (Gramd2), mRNA [NM_001033498]	-0.36	0.034	0.493
Slc37a2	NM_001145960	ref Mus musculus solute carrier family 37 (glycerol-3-phosphate transporter), member 2 (Slc37a2), transcript variant 1, mRNA [NM_001145960]	-0.36	0.016	0.426
Zfp386	NM_001004066	ref Mus musculus zinc finger protein 386 (Kruppel-like) (Zfp386), transcript variant 1, mRNA [NM_001004066]	-0.36	0.037	0.496
chr3:40966969-40976585_R	chr3:40966969-40976585_R	lincRNA:chr3:40966969-40976585 reverse strand	-0.36	0.046	0.513

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
LOC674678	XM_976380	ref PREDICTED: Mus musculus similar to histone H4 (LOC674678), mRNA [XM_976380]	-0.36	0.042	0.509
chr9:96635508-96654148_F	chr9:96635508-96654148_F	lincRNA:chr9:96635508-96654148 forward strand	-0.37	0.039	0.501
ENSMUST00000054333	ENSMUST00000054333	ens RIKEN cDNA A130050O07 gene Gene [Source:MGI Symbol;Acc:MGI:2443458] [ENSMUST00000054333]	-0.37	0.039	0.500
Gm3990	XM_001478689	ref PREDICTED: Mus musculus hypothetical protein LOC100042722 (LOC100042722), mRNA [XM_001478689]	-0.37	0.046	0.513
chr18:84303291-84303890_F	chr18:84303291-84303890_F	lincRNA:chr18:84303291-84303890 forward strand	-0.37	0.036	0.495
chr1:138520504-138521227_R	chr1:138520504-138521227_R	lincRNA:chr1:138520504-138521227 reverse strand	-0.37	0.036	0.495
chr8:67542714-67561694_R	chr8:67542714-67561694_R	lincRNA:chr8:67542714-67561694 reverse strand	-0.37	0.020	0.446
Ros1	NM_011282	ref Mus musculus Ros1 proto-oncogene (Ros1), mRNA [NM_011282]	-0.37	0.027	0.472
LOC100047552	XM_001478625	ref PREDICTED: Mus musculus hypothetical protein LOC100047552 (LOC100047552), mRNA [XM_001478625]	-0.37	0.023	0.453
chr8:37582187-37621987_F	chr8:37582187-37621987_F	lincRNA:chr8:37582187-37621987 forward strand	-0.37	0.033	0.490
chr8:24327427-24332452_R	chr8:24327427-24332452_R	lincRNA:chr8:24327427-24332452 reverse strand	-0.37	0.039	0.499
Homer2	NM_011983	ref Mus musculus homer homolog 2 (Drosophila) (Homer2), transcript variant 1, mRNA [NM_011983]	-0.37	0.045	0.513
chr9:78368697-78369095_R	chr9:78368697-78369095_R	lincRNA:chr9:78368697-78369095 reverse strand	-0.37	0.019	0.437
Dync2li1	NM_172256	ref Mus musculus dynein cytoplasmic 2 light intermediate chain 1 (Dync2li1), mRNA [NM_172256]	-0.37	0.032	0.485
ENSMUST00000116362	ENSMUST00000116362	ens Novel protein [Source:UniProtKB/TrEMBL;Acc:B1AX05] [ENSMUST00000116362]	-0.37	0.041	0.507
Pion	NM_175437	ref Mus musculus pigeon homolog (Drosophila) (Pion), mRNA [NM_175437]	-0.37	0.019	0.441
4930478K11Rik	AK019647	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930478K11 product:unclassifiable, full insert sequence. [AK019647]	-0.37	0.049	0.519
BC049635	NM_177785	ref Mus musculus cDNA sequence BC049635 (BC049635), mRNA [NM_177785]	-0.37	0.032	0.484
chr5:122982442-123000053_F	chr5:122982442-123000053_F	lincRNA:chr5:122982442-123000053 forward strand	-0.37	0.023	0.455
Rasgrp4	NM_145149	ref Mus musculus RAS guanyl releasing protein 4 (Rasgrp4), transcript variant 2, mRNA [NM_145149]	-0.37	0.045	0.513
chrX:6950444-6952293_R	chrX:6950444-6952293_R	lincRNA:chrX:6950444-6952293 reverse strand	-0.37	0.019	0.439
Gm4764	XM_141682	ref PREDICTED: Mus musculus predicted gene, EG210457 (EG210457), mRNA [XM_141682]	-0.37	0.017	0.435
chr3:127170996-127201096_R	chr3:127170996-127201096_R	lincRNA:chr3:127170996-127201096 reverse strand	-0.37	0.017	0.433
Tns3	NM_001083587	ref Mus musculus tensin 3 (Tns3), mRNA [NM_001083587]	-0.37	0.017	0.435
Hspb11	NM_028394	ref Mus musculus heat shock protein family B (small), member 11 (Hspb11), mRNA [NM_028394]	-0.37	0.029	0.477
chr5:22056218-22206995_F	chr5:22056218-22206995_F	lincRNA:chr5:22056218-22206995 forward strand	-0.37	0.027	0.473
chr1:193755364-193770539_F	chr1:193755364-193770539_F	lincRNA:chr1:193755364-193770539 forward strand	-0.37	0.042	0.508
chr10:92238941-92283837_R	chr10:92238941-92283837_R	lincRNA:chr10:92238941-92283837 reverse strand	-0.37	0.010	0.403
5430405G05Rik	NM_001160363	ref Mus musculus RIKEN cDNA 5430405G05 gene (5430405G05Rik), mRNA [NM_001160363]	-0.37	0.014	0.412

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr16:21247571-21296945_R	chr16:21247571-21296945_R	lincRNA:chr16:21247571-21296945 reverse strand	-0.38	0.006	0.369
Rtp3	NM_153100	ref Mus musculus receptor transporter protein 3 (Rtp3), mRNA [NM_153100]	-0.38	0.016	0.425
E130311K13Rik	NM_177856	ref Mus musculus RIKEN cDNA E130311K13 gene (E130311K13Rik), mRNA [NM_177856]	-0.38	0.037	0.496
LOC100041256	NM_001160142	ref Mus musculus hypothetical protein LOC100041256 (LOC100041256), mRNA [NM_001160142]	-0.38	0.043	0.510
Cxx1c	NM_028375	ref Mus musculus CAAX box 1 homolog C (human) (Cxx1c), mRNA [NM_028375]	-0.38	0.038	0.499
chr2:32950586-32984936_F	chr2:32950586-32984936_F	lincRNA:chr2:32950586-32984936 forward strand	-0.38	0.032	0.485
ENSMUST00000100552	ENSMUST00000100552	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UV41] [ENSMUST00000100552]	-0.38	0.023	0.456
chr5:67854954-67869163_R	chr5:67854954-67869163_R	lincRNA:chr5:67854954-67869163 reverse strand	-0.38	0.043	0.511
chr9:113648970-113715170_F	chr9:113648970-113715170_F	lincRNA:chr9:113648970-113715170 forward strand	-0.38	0.022	0.452
A730089K16Rik	XR_035181	ref PREDICTED: Mus musculus RIKEN cDNA A730089K16 gene (A730089K16Rik), misc RNA [XR_035181]	-0.38	0.023	0.453
chr4:55465247-55494547_R	chr4:55465247-55494547_R	lincRNA:chr4:55465247-55494547 reverse strand	-0.38	0.020	0.443
chr9:118060025-118085050_R	chr9:118060025-118085050_R	lincRNA:chr9:118060025-118085050 reverse strand	-0.38	0.023	0.453
Lmx1a	NM_033652	ref Mus musculus LIM homeobox transcription factor 1 alpha (Lmx1a), mRNA [NM_033652]	-0.38	0.015	0.418
chr12:82495575-82516300_F	chr12:82495575-82516300_F	lincRNA:chr12:82495575-82516300 forward strand	-0.38	0.031	0.482
Prss35	NM_178738	ref Mus musculus protease, serine, 35 (Prss35), mRNA [NM_178738]	-0.38	0.042	0.508
Cxcl14	NM_019568	ref Mus musculus chemokine (C-X-C motif) ligand 14 (Cxcl14), mRNA [NM_019568]	-0.38	0.025	0.463
chrX:45814752-45816313_R	chrX:45814752-45816313_R	lincRNA:chrX:45814752-45816313 reverse strand	-0.38	0.047	0.514
Cdrt4	NM_025496	ref Mus musculus CMT1A duplicated region transcript 4 (Cdrt4), mRNA [NM_025496]	-0.38	0.011	0.407
chr11:59189157-59220607_F	chr11:59189157-59220607_F	lincRNA:chr11:59189157-59220607 forward strand	-0.38	0.038	0.499
Prrg1	NM_027322	ref Mus musculus proline rich Gla (G-carboxyglutamic acid) 1 (Prrg1), transcript variant 1, mRNA [NM_027322]	-0.38	0.043	0.509
Slc30a6	NM_144798	ref Mus musculus solute carrier family 30 (zinc transporter), member 6 (Slc30a6), mRNA [NM_144798]	-0.38	0.049	0.519
chr2:165802256-165805186_R	chr2:165802256-165805186_R	lincRNA:chr2:165802256-165805186 reverse strand	-0.38	0.008	0.391
Il12a	NM_001159424	ref Mus musculus interleukin 12a (Il12a), transcript variant 1, mRNA [NM_001159424]	-0.38	0.049	0.519
Matn2	NM_016762	ref Mus musculus matrilin 2 (Matn2), mRNA [NM_016762]	-0.38	0.014	0.416
Robo2	NM_175549	ref Mus musculus roundabout homolog 2 (Drosophila) (Robo2), mRNA [NM_175549]	-0.38	0.019	0.439
Kdelc2	NM_212445	ref Mus musculus KDEL (Lys-Asp-Glu-Leu) containing 2 (Kdelc2), mRNA [NM_212445]	-0.38	0.047	0.515
Igsf1	NM_177915	ref Mus musculus immunoglobulin superfamily, member 1 (Igsf1), transcript variant 2, mRNA [NM_177915]	-0.38	0.037	0.496
Stk32c	NM_021302	ref Mus musculus serine/threonine kinase 32C (Stk32c), transcript variant 1, mRNA [NM_021302]	-0.38	0.034	0.493
Mdfic	NM_175088	ref Mus musculus MyoD family inhibitor domain containing (Mdfic), mRNA [NM_175088]	-0.38	0.038	0.499
8430419L09Rik	NM_028982	ref Mus musculus RIKEN cDNA 8430419L09 gene (8430419L09Rik), mRNA [NM_028982]	-0.38	0.046	0.513
chrX:121675099-121675731_F	chrX:121675099-121675731_F	lincRNA:chrX:121675099-121675731 forward strand	-0.38	0.050	0.519

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr17:22332475-22362150_R	chr17:22332475-22362150_R	lincRNA:chr17:22332475-22362150 reverse strand	-0.38	0.030	0.477
Gnpnat1	NM_019425	ref Mus musculus glucosamine-phosphate N-acetyltransferase 1 (Gnpnat1), mRNA [NM_019425]	-0.38	0.021	0.449
chr7:134643616-134651441_R	chr7:134643616-134651441_R	lincRNA:chr7:134643616-134651441 reverse strand	-0.39	0.047	0.516
chr12:110944403-110988678_R	chr12:110944403-110988678_R	lincRNA:chr12:110944403-110988678 reverse strand	-0.39	0.013	0.412
chr15:12119755-12127230_F	chr15:12119755-12127230_F	lincRNA:chr15:12119755-12127230 forward strand	-0.39	0.044	0.512
Gm5468	NR_027376	ref Mus musculus predicted gene 5468 (Gm5468), non-coding RNA [NR_027376]	-0.39	0.013	0.412
1700040D17Rik	AK006651	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:1700040D17 product:unclassifiable, full insert sequence. [AK006651]	-0.39	0.035	0.495
chr18:36480559-36481146_R	chr18:36480559-36481146_R	lincRNA:chr18:36480559-36481146 reverse strand	-0.39	0.038	0.499
ENSMUST00000098488	ENSMUST00000098488	ens splicing factor, arginine/serine-rich 11 Gene [Source:MGI (curated);Acc:MGI:1916457] [ENSMUST00000098488]	-0.39	0.035	0.494
chr16:64758224-64765674_F	chr16:64758224-64765674_F	lincRNA:chr16:64758224-64765674 forward strand	-0.39	0.041	0.505
Dnajb3	NM_008299	ref Mus musculus DnaJ (Hsp40) homolog, subfamily B, member 3 (Dnajb3), mRNA [NM_008299]	-0.39	0.013	0.412
2610110G12Rik	NM_001142744	ref Mus musculus RIKEN cDNA 2610110G12 gene (2610110G12Rik), transcript variant 1, mRNA [NM_001142744]	-0.39	0.034	0.491
Pex1	NM_027777	ref Mus musculus peroxisomal biogenesis factor 1 (Pex1), mRNA [NM_027777]	-0.39	0.018	0.435
ENSMUST00000062256	ENSMUST00000062256	ens RIKEN cDNA 0610025J13 gene Gene [Source:MGI Symbol;Acc:MGI:1915618] [ENSMUST00000062256]	-0.39	0.023	0.454
chr8:83210957-83219451_F	chr8:83210957-83219451_F	lincRNA:chr8:83210957-83219451 forward strand	-0.39	0.045	0.513
Rasgrp1	NM_011246	ref Mus musculus RAS guanyl releasing protein 1 (Rasgrp1), mRNA [NM_011246]	-0.39	0.036	0.495
4930567H17Rik	NM_001033807	ref Mus musculus RIKEN cDNA 4930567H17 gene (4930567H17Rik), mRNA [NM_001033807]	-0.39	0.007	0.377
LOC100047266	XM_001477769	ref PREDICTED: Mus musculus hypothetical protein LOC100047266 (LOC100047266), mRNA [XM_001477769]	-0.39	0.029	0.477
6720456H20Rik	NM_172600	ref Mus musculus RIKEN cDNA 6720456H20 gene (6720456H20Rik), mRNA [NM_172600]	-0.39	0.039	0.500
chr9:82991830-82999937_F	chr9:82991830-82999937_F	lincRNA:chr9:82991830-82999937 forward strand	-0.39	0.005	0.349
chr12:82457625-82476325_R	chr12:82457625-82476325_R	lincRNA:chr12:82457625-82476325 reverse strand	-0.39	0.014	0.414
Krt82	NM_053249	ref Mus musculus keratin 82 (Krt82), mRNA [NM_053249]	-0.39	0.004	0.313
chr18:75501092-75501330_F	chr18:75501092-75501330_F	lincRNA:chr18:75501092-75501330 forward strand	-0.39	0.012	0.408
Synpo2	NM_080451	ref Mus musculus synaptopodin 2 (Synpo2), mRNA [NM_080451]	-0.39	0.045	0.513
Olf1124	NM_147028	ref Mus musculus olfactory receptor 1124 (Olf1124), mRNA [NM_147028]	-0.39	0.049	0.518
Fndc7	NM_177091	ref Mus musculus fibronectin type III domain containing 7 (Fndc7), transcript variant 1, mRNA [NM_177091]	-0.39	0.039	0.499
LOC100046898	XM_001478127	ref PREDICTED: Mus musculus similar to Cell division cycle 34 homolog (S. cerevisiae) (LOC100046898), mRNA [XM_001478127]	-0.39	0.046	0.513
4933408A14Rik	CA463412	gb AGENCOURT_10722575 NIH_MGC_169 Mus musculus cDNA clone IMAGE:6770805 5', mRNA sequence [CA463412]	-0.39	0.022	0.453
chr7:105964846-105965163_F	chr7:105964846-105965163_F	lincRNA:chr7:105964846-105965163 forward strand	-0.40	0.035	0.495

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr3:121997064-122031218_F	chr3:121997064-122031218_F	lincRNA:chr3:121997064-122031218 forward strand	-0.40	0.004	0.312
Kcnj15	NM_019664	ref Mus musculus potassium inwardly-rectifying channel, subfamily J, member 15 (Kcnj15), transcript variant 2, mRNA [NM_019664]	-0.40	0.009	0.400
2010007H06Rik	AK084979	gb Mus musculus 13 days embryo lung cDNA, RIKEN full-length enriched library, clone:D430021D02 product:unclassifiable, full insert sequence. [AK084979]	-0.40	0.047	0.515
Xpo4	ENSMUST000000089482	ens exportin 4 Gene [Source:MGI Symbol;Acc:MGI:1888526] [ENSMUST000000089482]	-0.40	0.017	0.433
chr4:59264275-59287850_R	chr4:59264275-59287850_R	lincRNA:chr4:59264275-59287850 reverse strand	-0.40	0.031	0.480
Trip11	BC025876	gb Mus musculus thyroid hormone receptor interactor 11, mRNA (cDNA clone IMAGE:5028242). [BC025876]	-0.40	0.030	0.477
Ccdc108	NM_001039495	ref Mus musculus coiled-coil domain containing 108 (Ccdc108), mRNA [NM_001039495]	-0.40	0.042	0.507
chr4:86267450-86277650_F	chr4:86267450-86277650_F	lincRNA:chr4:86267450-86277650 forward strand	-0.40	0.045	0.513
Gbx1	NM_015739	ref Mus musculus gastrulation brain homeobox 1 (Gbx1), mRNA [NM_015739]	-0.40	0.036	0.495
4930432L08Rik	AK015294	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930432L08 product:unclassifiable, full insert sequence. [AK015294]	-0.40	0.044	0.512
Insc	NM_173767	ref Mus musculus inscuteable homolog (Drosophila) (Insc), mRNA [NM_173767]	-0.40	0.048	0.516
Catsperb	NM_173023	ref Mus musculus cation channel, sperm-associated, beta (Catsperb), mRNA [NM_173023]	-0.40	0.037	0.498
Card11	NM_175362	ref Mus musculus caspase recruitment domain family, member 11 (Card11), mRNA [NM_175362]	-0.40	0.011	0.407
Ache	NM_009599	ref Mus musculus acetylcholinesterase (Ache), mRNA [NM_009599]	-0.40	0.014	0.417
chr6:28172545-28176170_R	chr6:28172545-28176170_R	lincRNA:chr6:28172545-28176170 reverse strand	-0.40	0.040	0.502
Parp3	NM_145619	ref Mus musculus poly (ADP-ribose) polymerase family, member 3 (Parp3), mRNA [NM_145619]	-0.40	0.006	0.366
chr13:38757503-38767928_R	chr13:38757503-38767928_R	lincRNA:chr13:38757503-38767928 reverse strand	-0.40	0.038	0.499
Pbx1	NM_008783	ref Mus musculus pre B-cell leukemia transcription factor 1 (Pbx1), transcript variant b, mRNA [NM_008783]	-0.40	0.043	0.511
Epha8	NM_007939	ref Mus musculus Eph receptor A8 (Epha8), mRNA [NM_007939]	-0.40	0.037	0.497
9030411M13Rik	AK018502	gb Mus musculus adult male colon cDNA, RIKEN full-length enriched library, clone:9030411M13 product:unclassifiable, full insert sequence. [AK018502]	-0.40	0.034	0.493
Wdr89	NM_028203	ref Mus musculus WD repeat domain 89 (Wdr89), mRNA [NM_028203]	-0.40	0.031	0.482
Pgc	NM_025973	ref Mus musculus progastricsin (pepsinogen C) (Pgc), mRNA [NM_025973]	-0.40	0.039	0.500
Olf541	NM_146962	ref Mus musculus olfactory receptor 541 (Olf541), mRNA [NM_146962]	-0.40	0.010	0.401
Tas2r121	NM_207024	ref Mus musculus taste receptor, type 2, member 121 (Tas2r121), mRNA [NM_207024]	-0.40	0.034	0.493
chr3:40966969-40976585_R	chr3:40966969-40976585_R	lincRNA:chr3:40966969-40976585 reverse strand	-0.40	0.009	0.394
C430019N01Rik	AK049529	gb Mus musculus 7 days embryo whole body cDNA, RIKEN full-length enriched library, clone:C430019N01 product:unclassifiable, full insert sequence. [AK049529]	-0.40	0.043	0.510
Ndufa4l2	NM_001098789	ref Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-like 2 (Ndufa4l2), mRNA [NM_001098789]	-0.40	0.009	0.393
Nkain1	NM_025998	ref Mus musculus Na+/K+ transporting ATPase interacting 1 (Nkain1), mRNA [NM_025998]	-0.40	0.046	0.513
6330439K17Rik	NM_172859	ref Mus musculus RIKEN cDNA 6330439K17 gene (6330439K17Rik), mRNA [NM_172859]	-0.40	0.037	0.497

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Zfp111	NM_019940	ref Mus musculus zinc finger protein 111 (Zfp111), mRNA [NM_019940]	-0.40	0.026	0.470
chr12:16003706-16022581_F	chr12:16003706-16022581_F	lincRNA:chr12:16003706-16022581 forward strand	-0.40	0.028	0.474
Mettl3	NM_019721	ref Mus musculus methyltransferase like 3 (Mettl3), mRNA [NM_019721]	-0.40	0.049	0.519
chr15:102100397-102105872_R	chr15:102100397-102105872_R	lincRNA:chr15:102100397-102105872 reverse strand	-0.40	0.044	0.512
chr10:62347876-62374346_R	chr10:62347876-62374346_R	lincRNA:chr10:62347876-62374346 reverse strand	-0.40	0.039	0.501
Brix1	NM_026396	ref Mus musculus BRX1, biogenesis of ribosomes, homolog (S. cerevisiae) (Brix1), mRNA [NM_026396]	-0.41	0.046	0.513
Eml6	NM_146016	ref Mus musculus echinoderm microtubule associated protein like 6 (Eml6), mRNA [NM_146016]	-0.41	0.033	0.488
chr4:136871882-136872469_R	chr4:136871882-136872469_R	lincRNA:chr4:136871882-136872469 reverse strand	-0.41	0.018	0.437
chr17:45524689-45525320_R	chr17:45524689-45525320_R	lincRNA:chr17:45524689-45525320 reverse strand	-0.41	0.023	0.456
chr12:20240893-20435318_R	chr12:20240893-20435318_R	lincRNA:chr12:20240893-20435318 reverse strand	-0.41	0.031	0.480
Wdr72	NM_001033500	ref Mus musculus WD repeat domain 72 (Wdr72), mRNA [NM_001033500]	-0.41	0.032	0.484
Gm13241	XM_485486	ref PREDICTED: Mus musculus similar to Cdv3 protein (LOC433790), mRNA [XM_485486]	-0.41	0.009	0.399
Zfp784	NM_001039532	ref Mus musculus zinc finger protein 784 (Zfp784), mRNA [NM_001039532]	-0.41	0.025	0.464
Accn2	NM_009597	ref Mus musculus amiloride-sensitive cation channel 2, neuronal (Accn2), mRNA [NM_009597]	-0.41	0.048	0.516
ENSMUST00000113646	ENSMUST00000113646	ens anthrax toxin receptor 1 Gene [Source:MGI Symbol;Acc:MGI:1916788] [ENSMUST00000113646]	-0.41	0.030	0.477
ENSMUST00000072014	ENSMUST00000072014	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q8BKS1] [ENSMUST00000072014]	-0.41	0.011	0.407
chr9:96635508-96654148_F	chr9:96635508-96654148_F	lincRNA:chr9:96635508-96654148 forward strand	-0.41	0.030	0.477
chrX:93154123-93164481_F	chrX:93154123-93164481_F	lincRNA:chrX:93154123-93164481 forward strand	-0.41	0.040	0.504
H2-DMb2	NM_010388	ref Mus musculus histocompatibility 2, class II, locus Mb2 (H2-DMb2), mRNA [NM_010388]	-0.41	0.049	0.519
chr18:57124435-57134910_F	chr18:57124435-57134910_F	lincRNA:chr18:57124435-57134910 forward strand	-0.41	0.047	0.515
LOC100045319	XM_001474051	ref PREDICTED: Mus musculus hypothetical protein LOC100045319 (LOC100045319), mRNA [XM_001474051]	-0.41	0.034	0.493
Eaf2	NM_001113401	ref Mus musculus ELL associated factor 2 (Eaf2), transcript variant 2, mRNA [NM_001113401]	-0.41	0.022	0.453
InsI5	NM_011831	ref Mus musculus insulin-like 5 (InsI5), mRNA [NM_011831]	-0.41	0.031	0.483
B3galtI	NM_001081204	ref Mus musculus beta 1,3-galactosyltransferase-like (B3galtI), mRNA [NM_001081204]	-0.41	0.036	0.495
Tm4sf20	NM_025453	ref Mus musculus transmembrane 4 L six family member 20 (Tm4sf20), mRNA [NM_025453]	-0.41	0.039	0.500
chr4:89088538-89130181_F	chr4:89088538-89130181_F	lincRNA:chr4:89088538-89130181 forward strand	-0.41	0.048	0.516
chr12:73789535-73799787_F	chr12:73789535-73799787_F	lincRNA:chr12:73789535-73799787 forward strand	-0.41	0.026	0.470
Zdhhc2	NM_178395	ref Mus musculus zinc finger, DHHC domain containing 2 (Zdhhc2), mRNA [NM_178395]	-0.41	0.005	0.355
Olfir298	NM_001011751	ref Mus musculus olfactory receptor 298 (Olfir298), mRNA [NM_001011751]	-0.41	0.049	0.518
ENSMUST00000103461	ENSMUST00000103461	ens Ig heavy chain V region M167 Precursor [Source:UniProtKB/Swiss-Prot;Acc:P01795] [ENSMUST00000103461]	-0.41	0.019	0.439

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Ptplad2	NM_025760	ref Mus musculus protein tyrosine phosphatase-like A domain containing 2 (Ptplad2), mRNA [NM_025760]	-0.41	0.002	0.281
Gm15285	XR_032049	ref PREDICTED: Mus musculus similar to Electron transferring flavoprotein, alpha polypeptide (LOC100040640), misc RNA [XR_032049]	-0.42	0.023	0.456
Cer1	NM_009887	ref Mus musculus cerberus 1 homolog (Xenopus laevis) (Cer1), mRNA [NM_009887]	-0.42	0.031	0.482
ENSMUST00000101131	ENSMUST00000101131	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UR77] [ENSMUST00000101131]	-0.42	0.043	0.509
chr13:74712775-74728450_R	chr13:74712775-74728450_R	lincRNA:chr13:74712775-74728450 reverse strand	-0.42	0.043	0.509
Scrn1	ENSMUST00000019268	ens secernin 1 Gene [Source:MGI (curated);Acc:MGI:1917188] [ENSMUST00000019268]	-0.42	0.031	0.482
Brca2	NM_009765	ref Mus musculus breast cancer 2 (Brca2), transcript variant 2, mRNA [NM_009765]	-0.42	0.037	0.497
chr9:96673952-96674816_F	chr9:96673952-96674816_F	lincRNA:chr9:96673952-96674816 forward strand	-0.42	0.043	0.510
ENSMUST00000114154	ENSMUST00000114154	ens Ellis van Creveld gene homolog (human) Gene [Source:MGI (curated);Acc:MGI:1890596] [ENSMUST00000114154]	-0.42	0.040	0.504
chr10:72726649-72799726_R	chr10:72726649-72799726_R	lincRNA:chr10:72726649-72799726 reverse strand	-0.42	0.024	0.458
chr4:128207615-128242898_R	chr4:128207615-128242898_R	lincRNA:chr4:128207615-128242898 reverse strand	-0.42	0.027	0.472
Hs3st4	ENSMUST00000106437	Unknown	-0.42	0.044	0.512
chr8:85609155-85615170_R	chr8:85609155-85615170_R	lincRNA:chr8:85609155-85615170 reverse strand	-0.42	0.004	0.308
ENSMUST00000097339	ENSMUST00000097339	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UY6] [ENSMUST00000097339]	-0.42	0.037	0.496
5330431K02Rik	AK019926	gb Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library, clone:5330431K02 product:hypothetical protein, full insert sequence. [AK019926]	-0.42	0.036	0.495
Zscan22	NM_001001447	ref Mus musculus zinc finger and SCAN domain containing 22 (Zscan22), mRNA [NM_001001447]	-0.42	0.049	0.518
Trpc2	NM_011644	ref Mus musculus transient receptor potential cation channel, subfamily C, member 2 (Trpc2), transcript variant 1, mRNA [NM_011644]	-0.42	0.036	0.495
chr9:24292762-24307562_R	chr9:24292762-24307562_R	lincRNA:chr9:24292762-24307562 reverse strand	-0.42	0.017	0.431
chr1:63163023-63180223_R	chr1:63163023-63180223_R	lincRNA:chr1:63163023-63180223 reverse strand	-0.42	0.045	0.513
chr15:85412264-85549139_R	chr15:85412264-85549139_R	lincRNA:chr15:85412264-85549139 reverse strand	-0.42	0.009	0.398
chr18:69923410-69965360_F	chr18:69923410-69965360_F	lincRNA:chr18:69923410-69965360 forward strand	-0.42	0.036	0.496
ENSMUST00000099340	ENSMUST00000099340	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UKC4] [ENSMUST00000099340]	-0.42	0.041	0.506
Spats2l	NM_144882	ref Mus musculus spermatogenesis associated, serine-rich 2-like (Spats2l), transcript variant 1, mRNA [NM_144882]	-0.42	0.015	0.421
LOC100046720	XM_001476697	ref PREDICTED: Mus musculus similar to Reproductive homeobox 11 (LOC100046720), mRNA [XM_001476697]	-0.42	0.047	0.515
Hoxc8	NM_010466	ref Mus musculus homeobox C8 (Hoxc8), mRNA [NM_010466]	-0.42	0.037	0.496
chr1:194659312-194661407_R	chr1:194659312-194661407_R	lincRNA:chr1:194659312-194661407 reverse strand	-0.42	0.028	0.474
Gm2598	XM_001474084	ref PREDICTED: Mus musculus similar to Ubtf protein (LOC100040097), mRNA [XM_001474084]	-0.42	0.023	0.453

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Lrba	NM_001077687	ref Mus musculus LPS-responsive beige-like anchor (Lrba), transcript variant 3, mRNA [NM_001077687]	-0.42	0.030	0.477
chr4:119405156-119461821_F	chr4:119405156-119461821_F	lincRNA:chr4:119405156-119461821 forward strand	-0.42	0.040	0.503
ENSMUST00000019901	ENSMUST00000019901	ref PREDICTED: Mus musculus gene model 221, (NCBI) (Gm221), mRNA [XM_136914]	-0.42	0.024	0.459
chr11:22681800-22707775_F	chr11:22681800-22707775_F	lincRNA:chr11:22681800-22707775 forward strand	-0.42	0.006	0.369
Nlrp9b	NM_194058	ref Mus musculus NLR family, pyrin domain containing 9B (Nlrp9b), mRNA [NM_194058]	-0.42	0.020	0.447
Ppara	NM_011144	ref Mus musculus peroxisome proliferator activated receptor alpha (Ppara), transcript variant 1, mRNA [NM_011144]	-0.42	0.023	0.456
chr8:128933150-128943375_F	chr8:128933150-128943375_F	lincRNA:chr8:128933150-128943375 forward strand	-0.42	0.046	0.513
A430085C19	AK040305	gb Mus musculus 0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A430085C19 product:unclassifiable, full insert sequence. [AK040305]	-0.42	0.018	0.435
chr14:28231577-28242027_F	chr14:28231577-28242027_F	lincRNA:chr14:28231577-28242027 forward strand	-0.42	0.008	0.393
chr5:13125413-13310754_F	chr5:13125413-13310754_F	lincRNA:chr5:13125413-13310754 forward strand	-0.42	0.033	0.490
chr14:20893694-20903726_R	chr14:20893694-20903726_R	lincRNA:chr14:20893694-20903726 reverse strand	-0.42	0.022	0.453
chr17:84350367-84351803_R	chr17:84350367-84351803_R	lincRNA:chr17:84350367-84351803 reverse strand	-0.43	0.031	0.482
Gm1141	NR_027801	ref Mus musculus predicted gene 1141 (Gm1141), non-coding RNA [NR_027801]	-0.43	0.048	0.518
Gm3119	XM_001475657	ref PREDICTED: Mus musculus hypothetical protein LOC100041061 (LOC100041061), mRNA [XM_001475657]	-0.43	0.011	0.407
chr7:50509139-50526856_F	chr7:50509139-50526856_F	lincRNA:chr7:50509139-50526856 forward strand	-0.43	0.002	0.266
Fam110b	NM_173426	ref Mus musculus family with sequence similarity 110, member B (Fam110b), mRNA [NM_173426]	-0.43	0.048	0.518
Kcnmb4	NM_021452	ref Mus musculus potassium large conductance calcium-activated channel, subfamily M, beta member 4 (Kcnmb4), mRNA [NM_021452]	-0.43	0.030	0.479
ENSMUST00000079237	ENSMUST00000079237	ens zinc finger protein 125 Gene [Source:MGI Symbol;Acc:MGI:1336211] [ENSMUST00000079237]	-0.43	0.021	0.449
A_55_P2078438	A_55_P2078438	Unknown	-0.43	0.024	0.459
Gnaz	NM_010311	ref Mus musculus guanine nucleotide binding protein, alpha z subunit (Gnaz), mRNA [NM_010311]	-0.43	0.017	0.429
chr13:107822042-107823753_F	chr13:107822042-107823753_F	lincRNA:chr13:107822042-107823753 forward strand	-0.43	0.033	0.487
ENSMUST00000011324	ENSMUST00000011324	Unknown	-0.43	0.040	0.502
chrX:148720661-148763177_F	chrX:148720661-148763177_F	lincRNA:chrX:148720661-148763177 forward strand	-0.43	0.015	0.423
Dll1	NM_007865	ref Mus musculus delta-like 1 (Drosophila) (Dll1), mRNA [NM_007865]	-0.43	0.042	0.508
F830034J09Rik	AK156640	gb Mus musculus activated spleen cDNA, RIKEN full-length enriched library, clone:F830034J09 product:hypothetical protein, full insert sequence. [AK156640]	-0.43	0.008	0.391
ENSMUST00000063164	ENSMUST00000063164	ens RIKEN cDNA 2810021J22 gene Gene [Source:MGI Symbol;Acc:MGI:1917194] [ENSMUST00000063164]	-0.43	0.015	0.421
chr13:114514159-114514765_R	chr13:114514159-114514765_R	lincRNA:chr13:114514159-114514765 reverse strand	-0.43	0.027	0.472
Aldh1a7	NM_011921	ref Mus musculus aldehyde dehydrogenase family 1, subfamily A7 (Aldh1a7), mRNA [NM_011921]	-0.43	0.018	0.435
Olf58	NM_011001	ref Mus musculus olfactory receptor 58 (Olf58), mRNA [NM_011001]	-0.43	0.010	0.403

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000121829	ENSMUST00000121829	ens low density lipoprotein receptor-related protein 1 Gene [Source:MGI (curated);Acc:MGI:96828] [ENSMUST00000121829]	-0.43	0.045	0.513
chr17:22420025-22457650_R	chr17:22420025-22457650_R	lincRNA:chr17:22420025-22457650 reverse strand	-0.43	0.008	0.391
Kif2a	NM_008442	ref Mus musculus kinesin family member 2A (Kif2a), transcript variant 1, mRNA [NM_008442]	-0.43	0.045	0.513
chr13:90247709-90253992_F	chr13:90247709-90253992_F	lincRNA:chr13:90247709-90253992 forward strand	-0.43	0.034	0.493
6720483E21Rik	AK020171	gb Mus musculus 12 days embryo male wolffian duct includes surrounding region cDNA, RIKEN full-length enriched library, clone:6720483E21 product:unclassifiable, full insert sequence. [AK020171]	-0.43	0.028	0.474
Bbs10	NM_027914	ref Mus musculus Bardet-Biedl syndrome 10 (human) (Bbs10), mRNA [NM_027914]	-0.43	0.029	0.477
chr8:12535648-12544923_R	chr8:12535648-12544923_R	lincRNA:chr8:12535648-12544923 reverse strand	-0.43	0.014	0.417
2410137M14Rik	NM_029747	ref Mus musculus RIKEN cDNA 2410137M14 gene (2410137M14Rik), mRNA [NM_029747]	-0.43	0.035	0.494
Cdh8	NM_001039154	ref Mus musculus cadherin 8 (Cdh8), transcript variant 1, mRNA [NM_001039154]	-0.43	0.018	0.435
chr5:105000678-105015290_F	chr5:105000678-105015290_F	lincRNA:chr5:105000678-105015290 forward strand	-0.43	0.007	0.374
ENSMUST00000009354	ENSMUST00000009354	ens RIKEN cDNA 2310007L24 gene Gene [Source:MGI Symbol;Acc:MGI:1922823] [ENSMUST00000009354]	-0.43	0.031	0.483
Gm3916	XM_001478609	ref PREDICTED: Mus musculus hypothetical protein LOC100042588 (LOC100042588), mRNA [XM_001478609]	-0.43	0.015	0.420
chr18:5119300-5181600_R	chr18:5119300-5181600_R	lincRNA:chr18:5119300-5181600 reverse strand	-0.43	0.035	0.495
Adams19	NM_175506	ref Mus musculus a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 19 (Adams19), mRNA [NM_175506]	-0.44	0.024	0.459
chr13:26791413-26810047_F	chr13:26791413-26810047_F	lincRNA:chr13:26791413-26810047 forward strand	-0.44	0.026	0.471
chr1:94077196-94077860_F	chr1:94077196-94077860_F	lincRNA:chr1:94077196-94077860 forward strand	-0.44	0.025	0.465
9230115E21Rik	NR_033560	ref Mus musculus RIKEN cDNA 9230115E21 gene (9230115E21Rik), non-coding RNA [NR_033560]	-0.44	0.006	0.356
chr4:109071198-109078776_F	chr4:109071198-109078776_F	lincRNA:chr4:109071198-109078776 forward strand	-0.44	0.040	0.502
Ptx4	NM_026747	ref Mus musculus pentraxin 4 (Ptx4), transcript variant 1, mRNA [NM_026747]	-0.44	0.034	0.491
Sprr1b	NM_009265	ref Mus musculus small proline-rich protein 1B (Sprr1b), mRNA [NM_009265]	-0.44	0.043	0.511
LOC100046275	ENSMUST00000103540	ref PREDICTED: Mus musculus similar to Igba protein (LOC100046275), mRNA [XM_001475919]	-0.44	0.042	0.509
chr15:96984422-97000322_F	chr15:96984422-97000322_F	lincRNA:chr15:96984422-97000322 forward strand	-0.44	0.020	0.447
ENSMUST000000092551	ENSMUST000000092551	ens low density lipoprotein receptor-related protein 2 Gene [Source:MGI (curated);Acc:MGI:95794] [ENSMUST000000092551]	-0.44	0.049	0.519
Zfp873	NM_001024626	ref Mus musculus zinc finger protein 873 (Zfp873), mRNA [NM_001024626]	-0.44	0.018	0.437
chr17:79042382-79052046_F	chr17:79042382-79052046_F	lincRNA:chr17:79042382-79052046 forward strand	-0.44	0.035	0.495
ENSMUST00000114885	ENSMUST00000114885	ens deltex 3-like (Drosophila) Gene [Source:MGI (curated);Acc:MGI:2656973] [ENSMUST00000114885]	-0.44	0.013	0.412
chr15:77164450-77201325_F	chr15:77164450-77201325_F	lincRNA:chr15:77164450-77201325 forward strand	-0.44	0.030	0.480
chr9:9024733-9041933_F	chr9:9024733-9041933_F	lincRNA:chr9:9024733-9041933 forward strand	-0.44	0.047	0.516

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
6530401N04Rik	NM_029545	ref Mus musculus RIKEN cDNA 6530401N04 gene (6530401N04Rik), mRNA [NM_029545]	-0.44	0.029	0.477
Iqck	NM_001081446	ref Mus musculus IQ motif containing K (Iqck), mRNA [NM_001081446]	-0.44	0.044	0.513
Olf1167	NM_146294	ref Mus musculus olfactory receptor 1167 (Olf1167), mRNA [NM_146294]	-0.44	0.022	0.452
Dapp1	NM_011932	ref Mus musculus dual adaptor for phosphotyrosine and 3-phosphoinositides 1 (Dapp1), mRNA [NM_011932]	-0.44	0.037	0.496
Cd209g	ENSMUST00000111011	ens CD209g antigen Gene [Source:MGI (curated);Acc:MGI:1917442] [ENSMUST00000111011]	-0.44	0.048	0.516
Nup210l	NM_029937	ref Mus musculus nucleoporin 210-like (Nup210l), mRNA [NM_029937]	-0.44	0.035	0.494
chr5:75183748-75184179_R	chr5:75183748-75184179_R	lincRNA:chr5:75183748-75184179 reverse strand	-0.44	0.016	0.425
chr11:63054652-63131714_R	chr11:63054652-63131714_R	lincRNA:chr11:63054652-63131714 reverse strand	-0.44	0.041	0.505
4930469K13Rik	AK037310	gb Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130005E13 product:unclassifiable, full insert sequence. [AK037310]	-0.44	0.035	0.495
ENSMUST00000119870	ENSMUST00000119870	ens cyclic nucleotide gated channel beta 1 Gene [Source:MGI (curated);Acc:MGI:2664102] [ENSMUST00000119870]	-0.44	0.026	0.468
Gcsh	NM_026572	ref Mus musculus glycine cleavage system protein H (aminomethyl carrier) (Gcsh), nuclear gene encoding mitochondrial protein, mRNA [NM_026572]	-0.44	0.012	0.407
chr6:42659063-42660071_R	chr6:42659063-42660071_R	lincRNA:chr6:42659063-42660071 reverse strand	-0.44	0.012	0.412
chr6:121035524-121061074_F	chr6:121035524-121061074_F	lincRNA:chr6:121035524-121061074 forward strand	-0.44	0.019	0.441
4930443O20Rik	AK015373	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930443O20 product:unclassifiable, full insert sequence. [AK015373]	-0.44	0.029	0.477
4930465A12Rik	XM_897643	ref PREDICTED: Mus musculus RIKEN cDNA 4930465A12 gene (4930465A12Rik), mRNA [XM_897643]	-0.44	0.049	0.519
AI574175	AI574175	gb uj16h04.x1 Sugano mouse kidney mkia Mus musculus cDNA clone IMAGE:1908247 3'. [AI574175]	-0.45	0.026	0.470
Pira6	NM_011093	ref Mus musculus paired-Ig-like receptor A6 (Pira6), transcript variant 2, mRNA [NM_011093]	-0.45	0.020	0.443
LOC100048058	XM_001479435	ref PREDICTED: Mus musculus similar to Solute carrier family 29 (nucleoside transporters), member 4 (LOC100048058), mRNA [XM_001479435]	-0.45	0.050	0.520
chr11:16831925-16851121_F	chr11:16831925-16851121_F	lincRNA:chr11:16831925-16851121 forward strand	-0.45	0.034	0.493
chr14:52874069-52877398_R	chr14:52874069-52877398_R	lincRNA:chr14:52874069-52877398 reverse strand	-0.45	0.008	0.389
chr1:175705225-175717250_R	chr1:175705225-175717250_R	lincRNA:chr1:175705225-175717250 reverse strand	-0.45	0.024	0.461
Tmpo	NM_001080134	ref Mus musculus thymopoietin (Tmpo), transcript variant 6, mRNA [NM_001080134]	-0.45	0.039	0.499
1110028F11Rik	BC096659	gb Mus musculus cDNA clone IMAGE:576750. [BC096659]	-0.45	0.025	0.467
Aldh1l2	NM_153543	ref Mus musculus aldehyde dehydrogenase 1 family, member L2 (Aldh1l2), mRNA [NM_153543]	-0.45	0.005	0.349
ENSMUST00000114941	ENSMUST00000114941	ens enoyl Coenzyme A hydratase domain containing 3 Gene [Source:MGI (curated);Acc:MGI:1915106] [ENSMUST00000114941]	-0.45	0.030	0.477
Gm9693	XM_001480929	ref PREDICTED: Mus musculus hypothetical LOC676882 (LOC676882), mRNA [XM_001480929]	-0.45	0.012	0.409
Stag3	NM_016964	ref Mus musculus stromal antigen 3 (Stag3), mRNA [NM_016964]	-0.45	0.038	0.499
Rab19	NM_011226	ref Mus musculus RAB19, member RAS oncogene family (Rab19), mRNA [NM_011226]	-0.45	0.008	0.392

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Agk	NM_023538	ref Mus musculus acylglycerol kinase (Agk), nuclear gene encoding mitochondrial protein, mRNA [NM_023538]	-0.45	0.034	0.493
chr4:21683562-21694344_R	chr4:21683562-21694344_R	lincRNA:chr4:21683562-21694344 reverse strand	-0.45	0.011	0.406
chr12:103151449-103153545_F	chr12:103151449-103153545_F	lincRNA:chr12:103151449-103153545 forward strand	-0.45	0.011	0.407
Mtnr1a	NM_008639	ref Mus musculus melatonin receptor 1A (Mtnr1a), mRNA [NM_008639]	-0.45	0.012	0.408
Dspp	NM_010080	ref Mus musculus dentin sialophosphoprotein (Dspp), mRNA [NM_010080]	-0.45	0.008	0.392
chr10:84005221-84022896_R	chr10:84005221-84022896_R	lincRNA:chr10:84005221-84022896 reverse strand	-0.45	0.009	0.398
Pilrb2	NM_001024932	ref Mus musculus paired immunoglobulin-like type 2 receptor beta 2 (Pilrb2), mRNA [NM_001024932]	-0.45	0.042	0.508
Olfir1512	NM_146432	ref Mus musculus olfactory receptor 1512 (Olfir1512), mRNA [NM_146432]	-0.45	0.047	0.515
Cit	NM_007708	ref Mus musculus citron (Cit), mRNA [NM_007708]	-0.45	0.019	0.439
ENSMUST00000050338	ENSMUST00000050338	ens RIKEN cDNA 1110020C17 gene Gene [Source:MGI Symbol;Acc:MGI:1915834] [ENSMUST00000050338]	-0.45	0.011	0.406
Gm1631	NM_201366	ref Mus musculus predicted gene 1631 (Gm1631), mRNA [NM_201366]	-0.45	0.029	0.477
Edn2	NM_007902	ref Mus musculus endothelin 2 (Edn2), mRNA [NM_007902]	-0.45	0.026	0.471
chr16:23992037-24001037_R	chr16:23992037-24001037_R	lincRNA:chr16:23992037-24001037 reverse strand	-0.45	0.021	0.447
Gm5141	XM_001472146	ref PREDICTED: Mus musculus hypothetical protein LOC380850 (LOC380850), mRNA [XM_001472146]	-0.45	0.022	0.452
Flrt1	NM_201411	ref Mus musculus fibronectin leucine rich transmembrane protein 1 (Flrt1), mRNA [NM_201411]	-0.45	0.017	0.429
Sytl4	NM_013757	ref Mus musculus synaptotagmin-like 4 (Sytl4), mRNA [NM_013757]	-0.46	0.024	0.459
Ntrk3	NM_008746	ref Mus musculus neurotrophic tyrosine kinase, receptor, type 3 (Ntrk3), transcript variant 1, mRNA [NM_008746]	-0.46	0.018	0.435
Drd1a	NM_010076	ref Mus musculus dopamine receptor D1A (Drd1a), mRNA [NM_010076]	-0.46	0.030	0.477
chr4:114585803-114588898_F	chr4:114585803-114588898_F	lincRNA:chr4:114585803-114588898 forward strand	-0.46	0.022	0.452
LOC100044506	XM_001472459	ref PREDICTED: Mus musculus similar to HBxAg transactivated protein 2 (LOC100044506), mRNA [XM_001472459]	-0.46	0.004	0.325
Gm2060	XR_030663	ref PREDICTED: Mus musculus similar to Ac2-210 (LOC100039137), misc RNA [XR_030663]	-0.46	0.034	0.493
chr13:95613081-95640256_F	chr13:95613081-95640256_F	lincRNA:chr13:95613081-95640256 forward strand	-0.46	0.006	0.369
ENSMUST00000084357	ENSMUST00000084357	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q8CBJ2] [ENSMUST00000084357]	-0.46	0.029	0.477
1700051A21Rik	AK077134	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933411B07 product:unclassifiable, full insert sequence. [AK077134]	-0.46	0.037	0.497
Muc4	NM_080457	ref Mus musculus mucin 4 (Muc4), mRNA [NM_080457]	-0.46	0.050	0.520
Lrrc8e	NM_028175	ref Mus musculus leucine rich repeat containing 8 family, member E (Lrrc8e), mRNA [NM_028175]	-0.46	0.038	0.499
Wscd1	NM_177618	ref Mus musculus WSC domain containing 1 (Wscd1), mRNA [NM_177618]	-0.46	0.026	0.471
Stox1	NM_001033260	ref Mus musculus storkhead box 1 (Stox1), mRNA [NM_001033260]	-0.46	0.022	0.452
LOC100047284	XM_001477797	ref PREDICTED: Mus musculus similar to CDNA sequence BC060632 (LOC100047284), mRNA [XM_001477797]	-0.46	0.049	0.519

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Gm15847	XR_001979	ref PREDICTED: Mus musculus similar to zygote arrest 1 (LOC667127), misc RNA [XR_001979]	-0.46	0.003	0.281
chr17:71242333-71273533_R	chr17:71242333-71273533_R	lincRNA:chr17:71242333-71273533 reverse strand	-0.46	0.022	0.453
Slc44a5	NM_001081263	ref Mus musculus solute carrier family 44, member 5 (Slc44a5), mRNA [NM_001081263]	-0.46	0.042	0.507
A_55_P2077473	A_55_P2077473	Unknown	-0.46	0.024	0.459
Sh3bgrl2	NM_172507	ref Mus musculus SH3 domain binding glutamic acid-rich protein like 2 (Sh3bgrl2), mRNA [NM_172507]	-0.46	0.025	0.464
ENSMUST00000081193	ENSMUST00000081193	ens RIKEN cDNA 5730460C07 gene Gene [Source:MGI Symbol;Acc:MGI:1917844] [ENSMUST00000081193]	-0.46	0.035	0.495
Gm13688	XR_032728	ref PREDICTED: Mus musculus similar to ribosomal protein L15 (LOC624223), misc RNA [XR_032728]	-0.46	0.021	0.449
Gnpda1	NM_011937	ref Mus musculus glucosamine-6-phosphate deaminase 1 (Gnpda1), mRNA [NM_011937]	-0.46	0.036	0.495
chr15:85412264-85549139_R	chr15:85412264-85549139_R	lincRNA:chr15:85412264-85549139 reverse strand	-0.46	0.003	0.283
chr2:83540813-83541273_R	chr2:83540813-83541273_R	lincRNA:chr2:83540813-83541273 reverse strand	-0.46	0.046	0.513
chr17:13185488-13187031_R	chr17:13185488-13187031_R	lincRNA:chr17:13185488-13187031 reverse strand	-0.46	0.003	0.281
chr3:125563727-125564266_F	chr3:125563727-125564266_F	lincRNA:chr3:125563727-125564266 forward strand	-0.46	0.027	0.472
1700010L04Rik	XM_884181	ref PREDICTED: Mus musculus hypothetical LOC619808 (LOC619808), mRNA [XM_884181]	-0.46	0.019	0.438
LOC639496	XM_915944	ref PREDICTED: Mus musculus similar to Novel synovial sarcoma, X member B family member (LOC639496), mRNA [XM_915944]	-0.47	0.026	0.468
chr13:98062189-98066613_F	chr13:98062189-98066613_F	lincRNA:chr13:98062189-98066613 forward strand	-0.47	0.008	0.392
B9d1	NM_013717	ref Mus musculus B9 protein domain 1 (B9d1), mRNA [NM_013717]	-0.47	0.029	0.477
Gm2680	XM_001474691	ref PREDICTED: Mus musculus hypothetical protein LOC100040258 (LOC100040258), mRNA [XM_001474691]	-0.47	0.017	0.429
Fmn1	NM_001077698	ref Mus musculus formin-like 1 (Fmn1), transcript variant 2, mRNA [NM_001077698]	-0.47	0.020	0.441
Slc24a5	NM_175034	ref Mus musculus solute carrier family 24, member 5 (Slc24a5), mRNA [NM_175034]	-0.47	0.040	0.504
Olf1263	NM_146794	ref Mus musculus olfactory receptor 1263 (Olf1263), mRNA [NM_146794]	-0.47	0.014	0.418
Olf178	NM_130866	ref Mus musculus olfactory receptor 78 (Olf178), transcript variant 1, mRNA [NM_130866]	-0.47	0.032	0.485
Tmem18	NM_172049	ref Mus musculus transmembrane protein 18 (Tmem18), mRNA [NM_172049]	-0.47	0.038	0.499
Kcnh6	NM_001037712	ref Mus musculus potassium voltage-gated channel, subfamily H (eag-related), member 6 (Kcnh6), mRNA [NM_001037712]	-0.47	0.018	0.435
Tpk1	NM_013861	ref Mus musculus thiamine pyrophosphokinase (Tpk1), mRNA [NM_013861]	-0.47	0.033	0.490
Zim1	NM_011769	ref Mus musculus zinc finger, imprinted 1 (Zim1), mRNA [NM_011769]	-0.47	0.040	0.501
5033406O09Rik	NR_029464	ref Mus musculus RIKEN cDNA 5033406O09 gene (5033406O09Rik), non-coding RNA [NR_029464]	-0.47	0.046	0.513
Gm5427	XM_990631	ref PREDICTED: Mus musculus predicted gene, EG432494 (EG432494), mRNA [XM_990631]	-0.47	0.042	0.509
ENSMUST00000096145	ENSMUST00000096145	ens Protein kinase Fragment [Source:UniProtKB/TrEMBL;Acc:Q60647] [ENSMUST00000096145]	-0.47	0.016	0.426
chr11:97505439-97522274_R	chr11:97505439-97522274_R	lincRNA:chr11:97505439-97522274 reverse strand	-0.47	0.011	0.407

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr6:42659063-42660071_R	chr6:42659063-42660071_R	lincRNA:chr6:42659063-42660071 reverse strand	-0.47	0.041	0.506
A_55_P2395732	A_55_P2395732	Unknown	-0.47	0.033	0.487
chr11:120041124-120052299_F	chr11:120041124-120052299_F	lincRNA:chr11:120041124-120052299 forward strand	-0.47	0.034	0.491
ENSMUST00000091253	ENSMUST00000091253	ens importin 11 Gene [Source:MGI Symbol;Acc:MGI:2442377] [ENSMUST00000091253]	-0.47	0.006	0.369
chr3:121615836-121616109_F	chr3:121615836-121616109_F	lincRNA:chr3:121615836-121616109 forward strand	-0.47	0.014	0.412
Slc22a14	NM_001037749	ref Mus musculus solute carrier family 22 (organic cation transporter), member 14 (Slc22a14), mRNA [NM_001037749]	-0.47	0.024	0.459
Ing2	NM_023503	ref Mus musculus inhibitor of growth family, member 2 (Ing2), mRNA [NM_023503]	-0.47	0.007	0.377
ENSMUST00000099240	ENSMUST00000099240	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3ULU2] [ENSMUST00000099240]	-0.47	0.005	0.340
chr6:145647711-145756861_R	chr6:145647711-145756861_R	lincRNA:chr6:145647711-145756861 reverse strand	-0.47	0.023	0.456
Cdca7l	NM_146040	ref Mus musculus cell division cycle associated 7 like (Cdca7l), mRNA [NM_146040]	-0.47	0.012	0.408
chr14:65874977-65880202_R	chr14:65874977-65880202_R	lincRNA:chr14:65874977-65880202 reverse strand	-0.47	0.011	0.407
ENSMUST00000067993	ENSMUST00000067993	ens RIKEN cDNA 4930566N20 gene Gene [Source:MGI Symbol;Acc:MGI:1923174] [ENSMUST00000067993]	-0.47	0.030	0.477
Arhgap15	NM_153820	ref Mus musculus Rho GTPase activating protein 15 (Arhgap15), transcript variant 1, mRNA [NM_153820]	-0.47	0.008	0.390
chr18:35976163-35976530_F	chr18:35976163-35976530_F	lincRNA:chr18:35976163-35976530 forward strand	-0.48	0.042	0.507
Tmc5	NM_001105252	ref Mus musculus transmembrane channel-like gene family 5 (Tmc5), transcript variant 1, mRNA [NM_001105252]	-0.48	0.003	0.308
1700011H22Rik	NM_027034	ref Mus musculus RIKEN cDNA 1700011H22 gene (1700011H22Rik), mRNA [NM_027034]	-0.48	0.041	0.504
chr4:55593675-55629225_F	chr4:55593675-55629225_F	lincRNA:chr4:55593675-55629225 forward strand	-0.48	0.009	0.393
ENSMUST00000086982	ENSMUST00000086982	ens RIKEN cDNA 4933407118 gene Gene [Source:MGI Symbol;Acc:MGI:1918371] [ENSMUST00000086982]	-0.48	0.040	0.504
Dhcr24	NM_053272	ref Mus musculus 24-dehydrocholesterol reductase (Dhcr24), mRNA [NM_053272]	-0.48	0.021	0.448
Fam55c	NM_001134457	ref Mus musculus family with sequence similarity 55, member C (Fam55c), mRNA [NM_001134457]	-0.48	0.011	0.407
1700027L20Rik	ENSMUST00000044533	ens RIKEN cDNA 1700027L20 gene Gene [Source:MGI Symbol;Acc:MGI:1916703] [ENSMUST00000044533]	-0.48	0.025	0.467
chr10:81165750-81236400_F	chr10:81165750-81236400_F	lincRNA:chr10:81165750-81236400 forward strand	-0.48	0.049	0.519
Sfrs17b	NM_001081956	ref Mus musculus splicing factor, arginine/serine-rich 17b (Sfrs17b), mRNA [NM_001081956]	-0.48	0.036	0.495
ENSMUST00000064349	ENSMUST00000064349	ens RIKEN cDNA A330008L17 gene Gene [Source:MGI Symbol;Acc:MGI:2443215] [ENSMUST00000064349]	-0.48	0.042	0.508
chr1:44922628-44923224_F	chr1:44922628-44923224_F	lincRNA:chr1:44922628-44923224 forward strand	-0.48	0.005	0.352
LOC100039819	XM_001473595	ref PREDICTED: Mus musculus hypothetical protein LOC100039819 (LOC100039819), mRNA [XM_001473595]	-0.48	0.023	0.454
Gm3106	XM_001476136	ref PREDICTED: Mus musculus similar to C87414 protein, transcript variant 2 (LOC100041032), mRNA [XM_001476136]	-0.48	0.038	0.499

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Ap3m2	NM_029505	ref Mus musculus adaptor-related protein complex 3, mu 2 subunit (Ap3m2), transcript variant 2, mRNA [NM_029505]	-0.48	0.031	0.482
A_55_P2010557	A_55_P2010557	Unknown	-0.48	0.020	0.443
Cstf2	NM_133196	ref Mus musculus cleavage stimulation factor, 3' pre-RNA subunit 2 (Cstf2), mRNA [NM_133196]	-0.48	0.028	0.474
chr2:174088550-174109425_F	chr2:174088550-174109425_F	lincRNA:chr2:174088550-174109425 forward strand	-0.48	0.036	0.495
4930478M13Rik	XM_001478995	ref PREDICTED: Mus musculus RIKEN cDNA 4930478M13 gene (4930478M13Rik), mRNA [XM_001478995]	-0.48	0.029	0.477
Olfr183	NM_146485	ref Mus musculus olfactory receptor 183 (Olfr183), mRNA [NM_146485]	-0.48	0.023	0.457
LOC100047804	XM_001478897	ref PREDICTED: Mus musculus similar to ATP-binding cassette (ABC) transporter ABCA14 (LOC100047804), mRNA [XM_001478897]	-0.48	0.006	0.369
chr17:3198868-3394643_R	chr17:3198868-3394643_R	lincRNA:chr17:3198868-3394643 reverse strand	-0.48	0.020	0.447
chr6:100162756-100178531_R	chr6:100162756-100178531_R	lincRNA:chr6:100162756-100178531 reverse strand	-0.48	0.024	0.459
Gckr	NM_144909	ref Mus musculus glucokinase regulatory protein (Gckr), mRNA [NM_144909]	-0.48	0.010	0.401
Gm7131	XM_001477638	ref PREDICTED: Mus musculus hypothetical LOC634201 (LOC634201), mRNA [XM_001477638]	-0.48	0.022	0.452
Pycard	NM_023258	ref Mus musculus PYD and CARD domain containing (Pycard), mRNA [NM_023258]	-0.48	0.031	0.482
D730005E14Rik	NR_030675	ref Mus musculus RIKEN cDNA D730005E14 gene (D730005E14Rik), non-coding RNA [NR_030675]	-0.48	0.031	0.480
ENSMUST00000119425	ENSMUST00000119425	ens FK506 binding protein 8 Gene [Source:MGI (curated);Acc:MGI:1341070] [ENSMUST00000119425]	-0.48	0.021	0.449
ENSMUST00000075385	ENSMUST00000075385	ens submaxillary gland androgen regulated protein 2 Gene [Source:MGI Symbol;Acc:MGI:102762] [ENSMUST00000075385]	-0.49	0.018	0.437
LOC100045952	XM_001475454	ref PREDICTED: Mus musculus hypothetical protein LOC100045952 (LOC100045952), mRNA [XM_001475454]	-0.49	0.013	0.412
Mmp20	NM_013903	ref Mus musculus matrix metalloproteinase 20 (enamelysin) (Mmp20), mRNA [NM_013903]	-0.49	0.046	0.513
Ccdc67	NM_181816	ref Mus musculus coiled-coil domain containing 67 (Ccdc67), mRNA [NM_181816]	-0.49	0.043	0.510
Ptplad2	NM_025760	ref Mus musculus protein tyrosine phosphatase-like A domain containing 2 (Ptplad2), mRNA [NM_025760]	-0.49	0.014	0.418
C230034O21Rik	AK082297	gb Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched library, clone:C230034O21 product:unclassifiable, full insert sequence. [AK082297]	-0.49	0.013	0.412
chrX:7560535-7560896_R	chrX:7560535-7560896_R	lincRNA:chrX:7560535-7560896 reverse strand	-0.49	0.049	0.519
Gprin3	NM_183183	ref Mus musculus GPRIN family member 3 (Gprin3), mRNA [NM_183183]	-0.49	0.006	0.369
Gm10191	XM_001478288	ref PREDICTED: Mus musculus similar to ribosomal protein L31 (LOC100047426), mRNA [XM_001478288]	-0.49	0.017	0.433
chr15:5969454-5994540_R	chr15:5969454-5994540_R	lincRNA:chr15:5969454-5994540 reverse strand	-0.49	0.047	0.514
Ccnj	NM_172839	ref Mus musculus cyclin J (Ccnj), mRNA [NM_172839]	-0.49	0.034	0.493
Zfp799	NM_177359	ref Mus musculus zinc finger protein 799 (Zfp799), mRNA [NM_177359]	-0.49	0.027	0.471
chr5:109156118-109156422_F	chr5:109156118-109156422_F	lincRNA:chr5:109156118-109156422 forward strand	-0.49	0.031	0.482
Osbpl7	NM_001081434	ref Mus musculus oxysterol binding protein-like 7 (Osbpl7), mRNA [NM_001081434]	-0.49	0.035	0.494

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
2700086A05Rik	AK053996	gb Mus musculus 2 days pregnant adult female oviduct cDNA, RIKEN full-length enriched library, clone:E230011F24 product:unclassifiable, full insert sequence. [AK053996]	-0.49	0.012	0.408
Olf926	NM_146815	ref Mus musculus olfactory receptor 926 (Olf926), mRNA [NM_146815]	-0.49	0.016	0.428
A1846148	NM_001033139	ref Mus musculus expressed sequence A1846148 (A1846148), transcript variant 1, mRNA [NM_001033139]	-0.49	0.026	0.467
D730040F13Rik	ENSMUST00000107609	ens RIKEN cDNA D730040F13 gene Gene [Source:MGI Symbol;Acc:MGI:2445107] [ENSMUST00000107609]	-0.49	0.044	0.513
chr4:123155515-123361565_F	chr4:123155515-123361565_F	lincRNA:chr4:123155515-123361565 forward strand	-0.49	0.012	0.410
1500012K07Rik	XM_001478389	ref PREDICTED: Mus musculus RIKEN cDNA 1500012K07 gene (1500012K07Rik), mRNA [XM_001478389]	-0.49	0.045	0.513
Gm15550	XR_032342	ref PREDICTED: Mus musculus similar to 5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase (LOC665747), misc RNA [XR_032342]	-0.49	0.026	0.468
Rnase11	NM_001011877	ref Mus musculus ribonuclease, RNase A family, 11 (non-active) (Rnase11), mRNA [NM_001011877]	-0.49	0.034	0.493
chr7:6296401-6311486_F	chr7:6296401-6311486_F	lincRNA:chr7:6296401-6311486 forward strand	-0.49	0.020	0.443
ENSMUST00000121091	ENSMUST00000121091	ens sacsin Gene [Source:MGI (curated);Acc:MGI:1354724] [ENSMUST00000121091]	-0.49	0.008	0.391
Gm9271	XM_001004349	ref PREDICTED: Mus musculus predicted gene, EG668618, transcript variant 2 (EG668618), mRNA [XM_001004349]	-0.49	0.030	0.477
Reg1	NM_009042	ref Mus musculus regenerating islet-derived 1 (Reg1), mRNA [NM_009042]	-0.49	0.008	0.389
chr1:135956616-135957485_R	chr1:135956616-135957485_R	lincRNA:chr1:135956616-135957485 reverse strand	-0.49	0.037	0.496
chr8:105742425-105852975_R	chr8:105742425-105852975_R	lincRNA:chr8:105742425-105852975 reverse strand	-0.50	0.006	0.366
chr4:8574809-8575224_R	chr4:8574809-8575224_R	lincRNA:chr4:8574809-8575224 reverse strand	-0.50	0.046	0.513
chr13:74642700-74701900_R	chr13:74642700-74701900_R	lincRNA:chr13:74642700-74701900 reverse strand	-0.50	0.018	0.435
chr1:155219662-155231912_F	chr1:155219662-155231912_F	lincRNA:chr1:155219662-155231912 forward strand	-0.50	0.016	0.426
chr15:6915910-6915980_R	chr15:6915910-6915980_R	lincRNA:chr15:6915910-6915980 reverse strand	-0.50	0.044	0.512
Olf641	NM_147072	ref Mus musculus olfactory receptor 641 (Olf641), mRNA [NM_147072]	-0.50	0.011	0.407
Thy1	NM_009382	ref Mus musculus thymus cell antigen 1, theta (Thy1), mRNA [NM_009382]	-0.50	0.025	0.463
Olf1215	NM_146459	ref Mus musculus olfactory receptor 1215 (Olf1215), mRNA [NM_146459]	-0.50	0.043	0.509
Mfsd9	NM_172499	ref Mus musculus major facilitator superfamily domain containing 9 (Mfsd9), mRNA [NM_172499]	-0.50	0.021	0.448
chr1:58443698-58449898_R	chr1:58443698-58449898_R	lincRNA:chr1:58443698-58449898 reverse strand	-0.50	0.000	0.160
Lonrf2	NM_001029878	ref Mus musculus LON peptidase N-terminal domain and ring finger 2 (Lonrf2), mRNA [NM_001029878]	-0.50	0.044	0.511
Gm3310	XM_001477528	ref PREDICTED: Mus musculus hypothetical protein LOC100041390 (LOC100041390), mRNA [XM_001477528]	-0.50	0.047	0.515
Exoc3l	NM_177788	ref Mus musculus exocyst complex component 3-like (Exoc3l), mRNA [NM_177788]	-0.50	0.016	0.426
Olf1357	NM_001011737	ref Mus musculus olfactory receptor 1357 (Olf1357), mRNA [NM_001011737]	-0.50	0.007	0.382
Sh3bgrl2	NM_172507	ref Mus musculus SH3 domain binding glutamic acid-rich protein like 2 (Sh3bgrl2), mRNA [NM_172507]	-0.50	0.032	0.484

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000101355	ENSMUST00000101355	ens predicted gene 5570 Gene [Source:MGI Symbol;Acc:MGI:3644382] [ENSMUST00000101355]	-0.50	0.033	0.490
AU019176	BM228091	gb K0255B03-3 NIA Mouse Unfertilized Egg cDNA Library (Long) Mus musculus cDNA clone NIA:K0255B03 IMAGE:30049934 3', mRNA sequence [BM228091]	-0.50	0.001	0.227
Tube1	NM_028006	ref Mus musculus epsilon-tubulin 1 (Tube1), mRNA [NM_028006]	-0.50	0.021	0.448
Prss44	NM_148940	ref Mus musculus protease, serine, 44 (Prss44), mRNA [NM_148940]	-0.50	0.017	0.429
Ddx11	NM_001003919	ref Mus musculus DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 (CHL1-like helicase homolog, S. cerevisiae) (Ddx11), mRNA [NM_001003919]	-0.50	0.046	0.513
LOC100045156	XM_001473861	ref PREDICTED: Mus musculus hypothetical protein LOC100045156 (LOC100045156), mRNA [XM_001473861]	-0.50	0.037	0.496
chr15:61919018-61935580_F	chr15:61919018-61935580_F	lincRNA:chr15:61919018-61935580 forward strand	-0.50	0.005	0.355
chr2:116796887-116797441_F	chr2:116796887-116797441_F	lincRNA:chr2:116796887-116797441 forward strand	-0.50	0.038	0.499
chr18:36449530-36456800_R	chr18:36449530-36456800_R	lincRNA:chr18:36449530-36456800 reverse strand	-0.50	0.041	0.506
chr11:5377054-5377725_R	chr11:5377054-5377725_R	lincRNA:chr11:5377054-5377725 reverse strand	-0.50	0.019	0.437
Zfp353	NM_153096	ref Mus musculus zinc finger protein 353 (Zfp353), mRNA [NM_153096]	-0.50	0.017	0.435
Sycp2	NM_177191	ref Mus musculus synaptonemal complex protein 2 (Sycp2), mRNA [NM_177191]	-0.50	0.015	0.419
Mtif3	NM_029581	ref Mus musculus mitochondrial translational initiation factor 3 (Mtif3), nuclear gene encoding mitochondrial protein, mRNA [NM_029581]	-0.50	0.044	0.512
LOC100047012	XM_001477380	ref PREDICTED: Mus musculus similar to ubiquitin-conjugating enzyme UbcM2 (LOC100047012), mRNA [XM_001477380]	-0.50	0.015	0.421
2900062L11Rik	NM_029823	ref Mus musculus RIKEN cDNA 2900062L11 gene (2900062L11Rik), mRNA [NM_029823]	-0.51	0.012	0.409
Mrpl19	NM_026490	ref Mus musculus mitochondrial ribosomal protein L19 (Mrpl19), nuclear gene encoding mitochondrial protein, mRNA [NM_026490]	-0.51	0.017	0.429
4930556C24Rik	BY715748	gb BY715748 RIKEN full-length enriched, adult male testis Mus musculus cDNA clone 4930556C24 5'. [BY715748]	-0.51	0.013	0.412
chr6:30983012-31009987_F	chr6:30983012-31009987_F	lincRNA:chr6:30983012-31009987 forward strand	-0.51	0.020	0.441
4930533K18Rik	AK017042	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933433H14 product:unclassifiable, full insert sequence. [AK017042]	-0.51	0.035	0.494
LOC100047261	XR_033381	ref PREDICTED: Mus musculus similar to spermidine/spermine N1-acetyltransferase (LOC100047261), misc RNA [XR_033381]	-0.51	0.039	0.501
Ets1	NM_011808	ref Mus musculus E26 avian leukemia oncogene 1, 5' domain (Ets1), transcript variant 1, mRNA [NM_011808]	-0.51	0.031	0.480
9530077C05Rik	NM_026739	ref Mus musculus RIKEN cDNA 9530077C05 gene (9530077C05Rik), mRNA [NM_026739]	-0.51	0.019	0.437
chr13:28066579-28067179_F	chr13:28066579-28067179_F	lincRNA:chr13:28066579-28067179 forward strand	-0.51	0.038	0.499
Gm3575	XM_001475331	ref PREDICTED: Mus musculus hypothetical protein LOC100046001 (LOC100046001), mRNA [XM_001475331]	-0.51	0.029	0.477
Lmo3	NM_207222	ref Mus musculus LIM domain only 3 (Lmo3), mRNA [NM_207222]	-0.51	0.032	0.485
chr2:150072436-150074859_F	chr2:150072436-150074859_F	lincRNA:chr2:150072436-150074859 forward strand	-0.51	0.015	0.420

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr2:79521628-79521871_F	chr2:79521628-79521871_F	lincRNA:chr2:79521628-79521871 forward strand	-0.51	0.030	0.477
chr5:22056218-22206995_F	chr5:22056218-22206995_F	lincRNA:chr5:22056218-22206995 forward strand	-0.51	0.007	0.377
Vpreb1	NM_016982	ref Mus musculus pre-B lymphocyte gene 1 (Vpreb1), mRNA [NM_016982]	-0.51	0.037	0.497
ENSMUST00000056994	ENSMUST00000056994	ens RIKEN cDNA 4921513I03 gene Gene [Source:MGI Symbol;Acc:MGI:1918124] [ENSMUST00000056994]	-0.51	0.031	0.482
Olfir888	NM_146424	ref Mus musculus olfactory receptor 888 (Olfir888), mRNA [NM_146424]	-0.51	0.006	0.361
ENSMUST00000115135	ENSMUST00000115135	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UY87] [ENSMUST00000115135]	-0.51	0.029	0.477
ENSMUST00000114274	ENSMUST00000114274	ens roundabout homolog 1 (Drosophila) Gene [Source:MGI (curated);Acc:MGI:1274781] [ENSMUST00000114274]	-0.51	0.014	0.412
Ccdc18	NM_028481	ref Mus musculus coiled-coil domain containing 18 (Ccdc18), mRNA [NM_028481]	-0.51	0.005	0.355
Lrit2	NM_173418	ref Mus musculus leucine-rich repeat, immunoglobulin-like and transmembrane domains 2 (Lrit2), mRNA [NM_173418]	-0.51	0.043	0.511
Igsf1	NM_183335	ref Mus musculus immunoglobulin superfamily, member 1 (Igsf1), transcript variant 3, mRNA [NM_183335]	-0.52	0.003	0.308
Gm4922	NM_177706	ref Mus musculus predicted gene 4922 (Gm4922), mRNA [NM_177706]	-0.52	0.017	0.433
Cstad	NM_030137	ref Mus musculus CSA-conditional, T cell activation-dependent protein (Cstad), mRNA [NM_030137]	-0.52	0.027	0.471
9130004C02Rik	XM_001475643	ref PREDICTED: Mus musculus RIKEN cDNA 9130004C02 gene (9130004C02Rik), mRNA [XM_001475643]	-0.52	0.013	0.412
LOC100048534	ENSMUST00000096002	ens D19Erd652e protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q3B7X8] [ENSMUST00000096002]	-0.52	0.028	0.476
Olfir215	NM_146446	ref Mus musculus olfactory receptor 215 (Olfir215), mRNA [NM_146446]	-0.52	0.005	0.338
chr8:18903599-18904143_F	chr8:18903599-18904143_F	lincRNA:chr8:18903599-18904143 forward strand	-0.52	0.021	0.450
chr13:112337405-112356455_R	chr13:112337405-112356455_R	lincRNA:chr13:112337405-112356455 reverse strand	-0.52	0.025	0.464
chr1:134245856-134246607_F	chr1:134245856-134246607_F	lincRNA:chr1:134245856-134246607 forward strand	-0.52	0.024	0.458
chr6:052032838-052033444	chr6:052032838-052033444	lincRNA:chr6:052032838-052033444 forward strand	-0.52	0.014	0.415
Tex9	NM_009359	ref Mus musculus testis expressed gene 9 (Tex9), mRNA [NM_009359]	-0.52	0.018	0.435
chr13:62117000-62164075_R	chr13:62117000-62164075_R	lincRNA:chr13:62117000-62164075 reverse strand	-0.52	0.044	0.512
Kcnh5	NM_172805	ref Mus musculus potassium voltage-gated channel, subfamily H (eag-related), member 5 (Kcnh5), mRNA [NM_172805]	-0.52	0.031	0.483
Gm8482	XM_001000972	ref PREDICTED: Mus musculus predicted gene, EG667148 (EG667148), mRNA [XM_001000972]	-0.52	0.026	0.471
Ly6g6d	NM_033478	ref Mus musculus lymphocyte antigen 6 complex, locus G6D (Ly6g6d), mRNA [NM_033478]	-0.52	0.013	0.412
Angptl1	NM_028333	ref Mus musculus angiopoietin-like 1 (Angptl1), mRNA [NM_028333]	-0.52	0.041	0.505
Gm7969	XM_001473218	ref PREDICTED: Mus musculus hypothetical LOC666185 (LOC666185), mRNA [XM_001473218]	-0.52	0.014	0.414
chr7:128341797-128414692_F	chr7:128341797-128414692_F	lincRNA:chr7:128341797-128414692 forward strand	-0.52	0.048	0.516
Rtkn2	NM_001081346	ref Mus musculus rhotekin 2 (Rtkn2), mRNA [NM_001081346]	-0.52	0.032	0.485

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Hoxd11	AK054090	gb Mus musculus 2 days pregnant adult female oviduct cDNA, RIKEN full-length enriched library, clone:E230017H14 product:homeo box D11, full insert sequence. [AK054090]	-0.52	0.020	0.447
Fam47e	NM_001170572	ref Mus musculus family with sequence similarity 47, member E (Fam47e), transcript variant 3, mRNA [NM_001170572]	-0.53	0.045	0.513
chr10:95176634-95180141_R	chr10:95176634-95180141_R	lincRNA:chr10:95176634-95180141 reverse strand	-0.53	0.032	0.485
Kcnq2	NM_001003824	ref Mus musculus potassium voltage-gated channel, subfamily Q, member 2 (Kcnq2), transcript variant 2, mRNA [NM_001003824]	-0.53	0.037	0.498
1190007F08Rik	NM_001163721	ref Mus musculus RIKEN cDNA 1190007F08 gene (1190007F08Rik), transcript variant 1, mRNA [NM_001163721]	-0.53	0.033	0.487
chr15:59966962-59972812_R	chr15:59966962-59972812_R	lincRNA:chr15:59966962-59972812 reverse strand	-0.53	0.018	0.437
LOC100048560	XM_001480899	ref PREDICTED: Mus musculus hypothetical protein LOC100048560 (LOC100048560), mRNA [XM_001480899]	-0.53	0.019	0.437
Gm7518	XM_974857	ref PREDICTED: Mus musculus predicted gene, EG665149 (EG665149), mRNA [XM_974857]	-0.53	0.004	0.312
Olfir1029	NM_001011852	ref Mus musculus olfactory receptor 1029 (Olfir1029), mRNA [NM_001011852]	-0.53	0.047	0.515
chr14:67585234-67596823_F	chr14:67585234-67596823_F	lincRNA:chr14:67585234-67596823 forward strand	-0.53	0.007	0.380
chr15:100908725-100908912_F	chr15:100908725-100908912_F	lincRNA:chr15:100908725-100908912 forward strand	-0.53	0.029	0.477
Tmtc2	NM_177368	ref Mus musculus transmembrane and tetratricopeptide repeat containing 2 (Tmtc2), mRNA [NM_177368]	-0.53	0.007	0.382
Lrtm2	NM_172492	ref Mus musculus leucine-rich repeats and transmembrane domains 2 (Lrtm2), transcript variant 1, mRNA [NM_172492]	-0.53	0.040	0.504
Nrp2	NM_001077406	ref Mus musculus neuropilin 2 (Nrp2), transcript variant 5, mRNA [NM_001077406]	-0.53	0.040	0.504
Gcet2	NM_001159297	ref Mus musculus germinal center expressed transcript 2 (Gcet2), transcript variant 1, mRNA [NM_001159297]	-0.53	0.017	0.430
1600014C23Rik	ENSMUST00000039106	ens RIKEN cDNA 1600014C23 gene Gene [Source:MGI Symbol;Acc:MGI:1919490] [ENSMUST00000039106]	-0.53	0.025	0.464
chr3:87575891-87576343_F	chr3:87575891-87576343_F	lincRNA:chr3:87575891-87576343 forward strand	-0.53	0.005	0.351
ENSMUST00000103743	ENSMUST00000103743	ens Ig lambda-3 chain C region [Source:UniProtKB/Swiss-Prot;Acc:P01845] [ENSMUST00000103743]	-0.53	0.047	0.514
LOC100046894	XM_001477017	ref PREDICTED: Mus musculus similar to Igk-C protein (LOC100046894), mRNA [XM_001477017]	-0.53	0.046	0.513
chr12:12876192-12918398_F	chr12:12876192-12918398_F	lincRNA:chr12:12876192-12918398 forward strand	-0.53	0.024	0.461
chr7:50509139-50526856_F	chr7:50509139-50526856_F	lincRNA:chr7:50509139-50526856 forward strand	-0.53	0.022	0.452
2210415F13Rik	NM_027339	ref Mus musculus RIKEN cDNA 2210415F13 gene (2210415F13Rik), transcript variant 2, mRNA [NM_027339]	-0.53	0.036	0.495
chrX:122623597-122630826_F	chrX:122623597-122630826_F	lincRNA:chrX:122623597-122630826 forward strand	-0.53	0.006	0.366
LOC100044513	XM_001472295	ref PREDICTED: Mus musculus hypothetical protein LOC100044513 (LOC100044513), mRNA [XM_001472295]	-0.53	0.028	0.475
chr4:116790373-116797823_F	chr4:116790373-116797823_F	lincRNA:chr4:116790373-116797823 forward strand	-0.53	0.019	0.439
Gm2592	XM_001474061	ref PREDICTED: Mus musculus hypothetical protein LOC100040088 (LOC100040088), mRNA [XM_001474061]	-0.54	0.049	0.519

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
6430590A10Rik	XM_001480263	ref PREDICTED: Mus musculus hypothetical protein LOC100048220 (LOC100048220), mRNA [XM_001480263]	-0.54	0.038	0.499
Gm5132	NM_001085517	ref Mus musculus predicted gene 5132 (Gm5132), mRNA [NM_001085517]	-0.54	0.025	0.464
Gm2458	XM_001473661	ref PREDICTED: Mus musculus hypothetical protein LOC100039850 (LOC100039850), mRNA [XM_001473661]	-0.54	0.045	0.513
Dclk3	NM_172928	ref Mus musculus doublecortin-like kinase 3 (Dclk3), mRNA [NM_172928]	-0.54	0.042	0.508
Gm3646	NM_001177348	ref Mus musculus predicted gene 3646 (Gm3646), mRNA [NM_001177348]	-0.54	0.013	0.412
chr8:114477602-114488627_F	chr8:114477602-114488627_F	lincRNA:chr8:114477602-114488627 forward strand	-0.54	0.016	0.425
chr14:20893694-20903726_F	chr14:20893694-20903726_F	lincRNA:chr14:20893694-20903726 forward strand	-0.54	0.047	0.514
chr3:58118325-58136550_R	chr3:58118325-58136550_R	lincRNA:chr3:58118325-58136550 reverse strand	-0.54	0.036	0.495
Vmn2r96	NM_001104547	ref Mus musculus vomeronasal 2, receptor 96 (Vmn2r96), mRNA [NM_001104547]	-0.54	0.046	0.513
Klrb1c	NM_008527	ref Mus musculus killer cell lectin-like receptor subfamily B member 1C (Klrb1c), transcript variant 2, mRNA [NM_008527]	-0.54	0.030	0.477
chr13:19611679-19620954_R	chr13:19611679-19620954_R	lincRNA:chr13:19611679-19620954 reverse strand	-0.54	0.028	0.474
chr9:75316023-75344401_F	chr9:75316023-75344401_F	lincRNA:chr9:75316023-75344401 forward strand	-0.54	0.036	0.495
chr19:40663924-40669352_F	chr19:40663924-40669352_F	lincRNA:chr19:40663924-40669352 forward strand	-0.54	0.015	0.419
BC050972	BC050972	gb Mus musculus cDNA clone IMAGE:6742492. [BC050972]	-0.54	0.029	0.477
Fzd2	NM_020510	ref Mus musculus frizzled homolog 2 (Drosophila) (Fzd2), mRNA [NM_020510]	-0.54	0.005	0.341
Gm9422	XM_001004541	ref PREDICTED: Mus musculus predicted gene, EG668902 (EG668902), mRNA [XM_001004541]	-0.54	0.029	0.477
LOC100045653	NR_027377	ref Mus musculus hypothetical LOC100045653 (LOC100045653), non-coding RNA [NR_027377]	-0.54	0.045	0.513
2610109H07Rik	NM_027426	ref Mus musculus RIKEN cDNA 2610109H07 gene (2610109H07Rik), mRNA [NM_027426]	-0.54	0.038	0.499
chr1:87343550-87362900_F	chr1:87343550-87362900_F	lincRNA:chr1:87343550-87362900 forward strand	-0.54	0.026	0.468
chr8:71938275-72113375_F	chr8:71938275-72113375_F	lincRNA:chr8:71938275-72113375 forward strand	-0.54	0.022	0.451
Kcnq1ot1	NR_001461	ref Mus musculus KCNQ1 overlapping transcript 1 (Kcnq1ot1), non-coding RNA [NR_001461]	-0.55	0.017	0.433
P2rx2	NM_001164834	ref Mus musculus purinergic receptor P2X, ligand-gated ion channel, 2 (P2rx2), transcript variant 3, mRNA [NM_001164834]	-0.55	0.022	0.452
9630013K17Rik	AK020677	gb Mus musculus 16 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:9630013K17 product:unclassifiable, full insert sequence. [AK020677]	-0.55	0.005	0.346
Fbxo25	NM_025785	ref Mus musculus F-box protein 25 (Fbxo25), mRNA [NM_025785]	-0.55	0.018	0.436
Rgs9bp	NM_145840	ref Mus musculus regulator of G-protein signalling 9 binding protein (Rgs9bp), mRNA [NM_145840]	-0.55	0.038	0.499
9430083A17Rik	NR_029463	ref Mus musculus RIKEN cDNA 9430083A17 gene (9430083A17Rik), non-coding RNA [NR_029463]	-0.55	0.013	0.412
chr4:118723941-118757032_R	chr4:118723941-118757032_R	lincRNA:chr4:118723941-118757032 reverse strand	-0.55	0.015	0.419
ENSMUST00000050671	ENSMUST00000050671	ens RIKEN cDNA 4930426D05 gene Gene [Source:MGI Symbol;Acc:MGI:1921894] [ENSMUST00000050671]	-0.55	0.017	0.430
Vmn1r38	NM_134168	ref Mus musculus vomeronasal 1 receptor 38 (Vmn1r38), mRNA [NM_134168]	-0.55	0.033	0.487

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr9:100977450-100989325_R	chr9:100977450-100989325_R	lincRNA:chr9:100977450-100989325 reverse strand	-0.55	0.022	0.451
Vmn2r16	NM_001104627	ref Mus musculus vomeronasal 2, receptor 16 (Vmn2r16), mRNA [NM_001104627]	-0.55	0.011	0.406
LOC100045944	XM_001475225	ref PREDICTED: Mus musculus hypothetical protein LOC100045944 (LOC100045944), mRNA [XM_001475225]	-0.55	0.005	0.349
Mttr15	NM_177893	ref Mus musculus myotubularin related protein 15 (Mttr15), mRNA [NM_177893]	-0.55	0.013	0.412
chr10:76114741-76115073_F	chr10:76114741-76115073_F	lincRNA:chr10:76114741-76115073 forward strand	-0.55	0.012	0.408
Gm5107	XM_897537	ref PREDICTED: Mus musculus predicted gene, EG330070 (EG330070), mRNA [XM_897537]	-0.55	0.029	0.477
ENSMUST00000066533	ENSMUST00000066533	ens G protein-coupled receptor 112 Gene [Source:MGI (curated);Acc:MGI:2685213] [ENSMUST00000066533]	-0.55	0.043	0.511
chr14:105987405-106063477_R	chr14:105987405-106063477_R	lincRNA:chr14:105987405-106063477 reverse strand	-0.55	0.005	0.346
chr5:22058025-22072475_F	chr5:22058025-22072475_F	lincRNA:chr5:22058025-22072475 forward strand	-0.55	0.002	0.266
6030498E09Rik	NM_183126	ref Mus musculus RIKEN cDNA 6030498E09 gene (6030498E09Rik), mRNA [NM_183126]	-0.55	0.029	0.477
ENSMUST00000100029	ENSMUST00000100029	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3V3T4] [ENSMUST00000100029]	-0.55	0.039	0.501
Zfp40	NM_009555	ref Mus musculus zinc finger protein 40 (Zfp40), mRNA [NM_009555]	-0.55	0.034	0.493
Mex3b	NM_175366	ref Mus musculus mex3 homolog B (C. elegans) (Mex3b), mRNA [NM_175366]	-0.55	0.013	0.412
Abca14	NM_026458	ref Mus musculus ATP-binding cassette, sub-family A (ABC1), member 14 (Abca14), mRNA [NM_026458]	-0.55	0.043	0.510
Pde4b	NM_019840	ref Mus musculus phosphodiesterase 4B, cAMP specific (Pde4b), transcript variant 1, mRNA [NM_019840]	-0.55	0.014	0.418
Zfp820	NM_029281	ref Mus musculus zinc finger protein 820 (Zfp820), mRNA [NM_029281]	-0.55	0.013	0.412
Vmn2r103	NM_001104565	ref Mus musculus vomeronasal 2, receptor 103 (Vmn2r103), mRNA [NM_001104565]	-0.56	0.050	0.520
chrX:20555593-20591971_F	chrX:20555593-20591971_F	lincRNA:chrX:20555593-20591971 forward strand	-0.56	0.010	0.401
4933427E11Rik	NR_033197	ref Mus musculus RIKEN cDNA 4933427E11 gene (4933427E11Rik), non-coding RNA [NR_033197]	-0.56	0.041	0.505
Lca5	NM_027448	ref Mus musculus Leber congenital amaurosis 5 (human) (Lca5), transcript variant 2, mRNA [NM_027448]	-0.56	0.013	0.412
chr3:60288326-60288925_R	chr3:60288326-60288925_R	lincRNA:chr3:60288326-60288925 reverse strand	-0.56	0.011	0.407
Fgd2	NM_013710	ref Mus musculus FYVE, RhoGEF and PH domain containing 2 (Fgd2), transcript variant 2, mRNA [NM_013710]	-0.56	0.026	0.470
chr11:31643114-31643595_F	chr11:31643114-31643595_F	lincRNA:chr11:31643114-31643595 forward strand	-0.56	0.015	0.418
ENSMUST00000098610	ENSMUST00000098610	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3V3P5] [ENSMUST00000098610]	-0.56	0.049	0.519
chr19:27448093-27462793_R	chr19:27448093-27462793_R	lincRNA:chr19:27448093-27462793 reverse strand	-0.56	0.037	0.497
chr17:45525567-45526189_R	chr17:45525567-45526189_R	lincRNA:chr17:45525567-45526189 reverse strand	-0.56	0.049	0.519
Zfp560	NM_001004190	ref Mus musculus zinc finger protein 560 (Zfp560), mRNA [NM_001004190]	-0.56	0.019	0.439
chr18:67435075-67447150_F	chr18:67435075-67447150_F	lincRNA:chr18:67435075-67447150 forward strand	-0.56	0.016	0.426
Hsf3	NM_172931	ref Mus musculus heat shock transcription factor 3 (Hsf3), mRNA [NM_172931]	-0.56	0.036	0.495
chr9:67414463-67483185_R	chr9:67414463-67483185_R	lincRNA:chr9:67414463-67483185 reverse strand	-0.56	0.023	0.456

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Olf1416	NM_147038	ref Mus musculus olfactory receptor 1416 (Olf1416), mRNA [NM_147038]	-0.56	0.029	0.477
ENSMUST00000109329	ENSMUST00000109329	ens lymphocyte cytosolic protein 2 Gene [Source:MGI (curated);Acc:MGI:1321402] [ENSMUST00000109329]	-0.56	0.022	0.452
Rnf222	NM_177060	ref Mus musculus ring finger protein 222 (Rnf222), mRNA [NM_177060]	-0.57	0.004	0.315
4931423N10Rik	NM_027635	ref Mus musculus RIKEN cDNA 4931423N10 gene (4931423N10Rik), mRNA [NM_027635]	-0.57	0.006	0.366
Klra23	NM_024470	ref Mus musculus killer cell lectin-like receptor subfamily A, member 23 (Klra23), mRNA [NM_024470]	-0.57	0.014	0.416
Arhgef15	AK051749	gb Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched library, clone:D130071N09 product:hypothetical Dbl domain (dbl/cdc24 rhoGEF family) containing protein, full insert sequence. [AK051749]	-0.57	0.019	0.437
Efcab4b	NM_001033464	ref Mus musculus EF-hand calcium binding domain 4B (Efcab4b), mRNA [NM_001033464]	-0.57	0.013	0.412
Klhl22	XM_001475578	ref PREDICTED: Mus musculus hypothetical protein LOC100046098 (LOC100046098), mRNA [XM_001475578]	-0.57	0.010	0.401
ENSMUST00000101487	ENSMUST00000101487	ens RIKEN cDNA F730043M19 gene Gene [Source:MGI Symbol;Acc:MGI:2443237] [ENSMUST00000101487]	-0.57	0.014	0.412
Zbtb3	NM_133759	ref Mus musculus zinc finger and BTB domain containing 3 (Zbtb3), transcript variant 2, mRNA [NM_133759]	-0.57	0.046	0.513
Pabpc6	NM_001163836	ref Mus musculus poly(A) binding protein, cytoplasmic 6 (Pabpc6), mRNA [NM_001163836]	-0.57	0.024	0.461
Gm2019	XM_001472162	ref PREDICTED: Mus musculus similar to Ubtf protein (LOC100039048), mRNA [XM_001472162]	-0.57	0.048	0.518
ENSMUST00000094564	ENSMUST00000094564	ens PQ loop repeat containing 2 Gene [Source:MGI (curated);Acc:MGI:2384837] [ENSMUST00000094564]	-0.57	0.040	0.502
Dok4	NM_053246	ref Mus musculus docking protein 4 (Dok4), mRNA [NM_053246]	-0.57	0.035	0.495
Efhc1	NM_027974	ref Mus musculus EF-hand domain (C-terminal) containing 1 (Efhc1), mRNA [NM_027974]	-0.58	0.036	0.495
Gm5134	NM_198635	ref Mus musculus predicted gene 5134 (Gm5134), mRNA [NM_198635]	-0.58	0.027	0.472
4921517D22Rik	NM_183290	ref Mus musculus RIKEN cDNA 4921517D22 gene (4921517D22Rik), mRNA [NM_183290]	-0.58	0.046	0.513
Mageb5	NM_028847	ref Mus musculus melanoma antigen, family B, 5 (Mageb5), mRNA [NM_028847]	-0.58	0.018	0.435
Gm3693	XM_001477943	ref PREDICTED: Mus musculus hypothetical protein LOC100042143 (LOC100042143), mRNA [XM_001477943]	-0.58	0.031	0.480
Klrk1	NM_033078	ref Mus musculus killer cell lectin-like receptor subfamily K, member 1 (Klrk1), transcript variant 1, mRNA [NM_033078]	-0.58	0.046	0.514
Klra15	NM_013793	ref Mus musculus killer cell lectin-like receptor, subfamily A, member 15 (Klra15), mRNA [NM_013793]	-0.58	0.006	0.366
AW011738	NR_030671	ref Mus musculus expressed sequence AW011738 (AW011738), non-coding RNA [NR_030671]	-0.58	0.003	0.306
Cmah	NM_001111110	ref Mus musculus cytidine monophospho-N-acetylneuraminic acid hydroxylase (Cmah), transcript variant 2, mRNA [NM_001111110]	-0.58	0.010	0.401
Olf1189	NM_146772	ref Mus musculus olfactory receptor 1189 (Olf1189), mRNA [NM_146772]	-0.58	0.026	0.468
AI746383	AI746383	gb ul06c11.x1 Sugano mouse kidney mkia Mus musculus cDNA clone IMAGE:2065268 3'. [AI746383]	-0.58	0.039	0.501
chr5:74487385-74497428_R	chr5:74487385-74497428_R	lincRNA:chr5:74487385-74497428 reverse strand	-0.58	0.023	0.456
chr13:98038568-98068079_R	chr13:98038568-98068079_R	lincRNA:chr13:98038568-98068079 reverse strand	-0.58	0.005	0.352

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000100814	ENSMUST00000100814	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3V428] [ENSMUST00000100814]	-0.58	0.021	0.447
chr14:21449863-21450640_R	chr14:21449863-21450640_R	lincRNA:chr14:21449863-21450640 reverse strand	-0.58	0.016	0.426
ENSMUST00000103481	ENSMUST00000103481	ens Ig heavy chain V region M315 Precursor [Source:UniProtKB/Swiss-Prot;Acc:P18531] [ENSMUST00000103481]	-0.58	0.027	0.471
Tnfrsf13c	NM_028075	ref Mus musculus tumor necrosis factor receptor superfamily, member 13c (Tnfrsf13c), mRNA [NM_028075]	-0.58	0.050	0.520
Bcl6b	NM_007528	ref Mus musculus B-cell CLL/lymphoma 6, member B (Bcl6b), mRNA [NM_007528]	-0.59	0.048	0.516
Klra6	NM_008464	ref Mus musculus killer cell lectin-like receptor, subfamily A, member 6 (Klra6), mRNA [NM_008464]	-0.59	0.008	0.391
XM_001472404	XM_001472404	ref PREDICTED: Mus musculus immunoglobulin heavy chain complex (Igh), mRNA [XM_001472404]	-0.59	0.035	0.493
Pou1f1	NM_008849	ref Mus musculus POU domain, class 1, transcription factor 1 (Pou1f1), mRNA [NM_008849]	-0.59	0.039	0.500
4632411P08Rik	AK019492	gb Mus musculus 0 day neonate skin cDNA, RIKEN full-length enriched library, clone:4632411P08 product:unclassifiable, full insert sequence. [AK019492]	-0.59	0.016	0.425
Astn1	NM_007495	ref Mus musculus astrotactin 1 (Astn1), mRNA [NM_007495]	-0.59	0.013	0.412
Maneal	NM_001007573	ref Mus musculus mannosidase, endo-alpha-like (Maneal), mRNA [NM_001007573]	-0.59	0.027	0.472
chr17:6426800-6528950_F	chr17:6426800-6528950_F	lincRNA:chr17:6426800-6528950 forward strand	-0.59	0.003	0.308
Txndc3	NM_001167909	ref Mus musculus thioredoxin domain containing 3 (spermatzoa) (Txndc3), transcript variant 2, mRNA [NM_001167909]	-0.59	0.041	0.504
chr16:98218292-98230170_F	chr16:98218292-98230170_F	lincRNA:chr16:98218292-98230170 forward strand	-0.59	0.012	0.408
Cml3	NM_001037842	ref Mus musculus camello-like 3 (Cml3), transcript variant 1, mRNA [NM_001037842]	-0.59	0.037	0.496
Csn1s2b	NM_009973	ref Mus musculus casein alpha s2-like B (Csn1s2b), mRNA [NM_009973]	-0.59	0.030	0.479
ENSMUST00000098313	ENSMUST00000098313	ens cathepsin C Gene [Source:MGI (curated);Acc:MGI:109553] [ENSMUST00000098313]	-0.59	0.013	0.412
Chek2	NM_016681	ref Mus musculus CHK2 checkpoint homolog (S. pombe) (Chek2), mRNA [NM_016681]	-0.59	0.010	0.404
Ino80d	ENSMUST00000046020	ens INO80 complex subunit D Gene [Source:MGI (curated);Acc:MGI:3027003] [ENSMUST00000046020]	-0.60	0.039	0.501
Olf6	NM_206897	ref Mus musculus olfactory receptor 6 (Olf6), mRNA [NM_206897]	-0.60	0.019	0.437
Gm2181	XM_001472754	ref PREDICTED: Mus musculus similar to Mnn4p (LOC100039361), mRNA [XM_001472754]	-0.60	0.007	0.370
Ccdc122	NM_175369	ref Mus musculus coiled-coil domain containing 122 (Ccdc122), mRNA [NM_175369]	-0.60	0.003	0.302
ENSMUST00000055893	ENSMUST00000055893	ens EF-hand calcium binding domain 8 Gene [Source:MGI (curated);Acc:MGI:3644206] [ENSMUST00000055893]	-0.60	0.026	0.470
chr5:108538417-108550517_R	chr5:108538417-108550517_R	lincRNA:chr5:108538417-108550517 reverse strand	-0.60	0.026	0.469
chr8:89996710-90049453_F	chr8:89996710-90049453_F	lincRNA:chr8:89996710-90049453 forward strand	-0.60	0.041	0.504
chr13:19611679-19620954_R	chr13:19611679-19620954_R	lincRNA:chr13:19611679-19620954 reverse strand	-0.60	0.005	0.346
Tcrg-C	ENSMUST00000103564	ens T-cell receptor gamma chain V region 5/10-13 Precursor [Source:UniProtKB/Swiss-Prot;Acc:P06325] [ENSMUST00000103564]	-0.60	0.017	0.432
chr2:174088550-174109425_F	chr2:174088550-174109425_F	lincRNA:chr2:174088550-174109425 forward strand	-0.61	0.037	0.497

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr1:179198249-179198560_R	chr1:179198249-179198560_R	lincRNA:chr1:179198249-179198560 reverse strand	-0.61	0.026	0.471
chr18:47327300-47333819_F	chr18:47327300-47333819_F	lincRNA:chr18:47327300-47333819 forward strand	-0.61	0.004	0.338
chr13:71021825-71023381_F	chr13:71021825-71023381_F	lincRNA:chr13:71021825-71023381 forward strand	-0.61	0.031	0.483
Tmco3	NM_172282	ref Mus musculus transmembrane and coiled-coil domains 3 (Tmco3), mRNA [NM_172282]	-0.61	0.029	0.477
LOC100046618	XM_001476513	ref PREDICTED: Mus musculus similar to ribosomal protein (LOC100046618), mRNA [XM_001476513]	-0.61	0.016	0.425
Tktl2	NM_028927	ref Mus musculus transketolase-like 2 (Tktl2), mRNA [NM_028927]	-0.61	0.007	0.381
chr15:66685663-66686113_R	chr15:66685663-66686113_R	lincRNA:chr15:66685663-66686113 reverse strand	-0.61	0.017	0.432
9530056K15Rik	AK035765	gb Mus musculus 16 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:9630002I21 product:unclassifiable, full insert sequence. [AK035765]	-0.61	0.002	0.281
6720422M22Rik	AK032738	gb Mus musculus 12 days embryo male wolffian duct includes surrounding region cDNA, RIKEN full-length enriched library, clone:6720422M22 product:unclassifiable, full insert sequence. [AK032738]	-0.61	0.049	0.519
Pxdn	NM_181395	ref Mus musculus peroxidase homolog (Drosophila) (Pxdn), mRNA [NM_181395]	-0.61	0.049	0.519
chr4:99548675-99598875_R	chr4:99548675-99598875_R	lincRNA:chr4:99548675-99598875 reverse strand	-0.61	0.029	0.477
LOC100046336	XM_001476035	ref PREDICTED: Mus musculus hypothetical protein LOC100046336 (LOC100046336), mRNA [XM_001476035]	-0.61	0.030	0.477
LOC100048388	XM_001480465	ref PREDICTED: Mus musculus hypothetical protein LOC100048388 (LOC100048388), mRNA [XM_001480465]	-0.61	0.042	0.508
A930028C08Rik	BC024827	gb Mus musculus RIKEN cDNA A930028C08 gene, mRNA (cDNA clone IMAGE:5357505), with apparent retained intron. [BC024827]	-0.61	0.022	0.450
Ms4a8a	NM_022430	ref Mus musculus membrane-spanning 4-domains, subfamily A, member 8A (Ms4a8a), mRNA [NM_022430]	-0.62	0.005	0.355
Adam26a	NM_010085	ref Mus musculus a disintegrin and metalloproteinase domain 26A (testase 3) (Adam26a), mRNA [NM_010085]	-0.62	0.018	0.437
Kcne1l	NM_021487	ref Mus musculus potassium voltage-gated channel, Isk-related family, member 1-like, pseudogene (Kcne1l), mRNA [NM_021487]	-0.62	0.011	0.407
Ddi1	NM_027942	ref Mus musculus DDI1, DNA-damage inducible 1, homolog 1 (S. cerevisiae) (Ddi1), mRNA [NM_027942]	-0.62	0.044	0.512
AU021884	BG068077	gb H3061E03-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3061E03 3', mRNA sequence [BG068077]	-0.62	0.019	0.437
LOC100039041	XM_001472141	ref PREDICTED: Mus musculus similar to Sycp3 like Y-linked (LOC100039041), mRNA [XM_001472141]	-0.62	0.046	0.513
Clec3a	NM_001007223	ref Mus musculus C-type lectin domain family 3, member a (Clec3a), mRNA [NM_001007223]	-0.62	0.022	0.452
Ccdc67	NM_181816	ref Mus musculus coiled-coil domain containing 67 (Ccdc67), mRNA [NM_181816]	-0.62	0.010	0.401
Gm6401	XM_891604	ref PREDICTED: Mus musculus predicted gene, EG623168 (EG623168), mRNA [XM_891604]	-0.62	0.003	0.293
A830005F24Rik	ENSMUST00000065465	ens RIKEN cDNA A830005F24 gene Gene [Source:MGI Symbol;Acc:MGI:3045249] [ENSMUST00000065465]	-0.62	0.019	0.437
Ccdc88c	NM_026681	ref Mus musculus coiled-coil domain containing 88C (Ccdc88c), mRNA [NM_026681]	-0.62	0.001	0.227
chr2:130697320-130729670_R	chr2:130697320-130729670_R	lincRNA:chr2:130697320-130729670 reverse strand	-0.62	0.000	0.148
chr10:76114741-76115073_F	chr10:76114741-76115073_F	lincRNA:chr10:76114741-76115073 forward strand	-0.63	0.005	0.353

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr1:85304494-85305390_R	chr1:85304494-85305390_R	lincRNA:chr1:85304494-85305390 reverse strand	-0.63	0.009	0.394
chr1:64686823-64728598_F	chr1:64686823-64728598_F	lincRNA:chr1:64686823-64728598 forward strand	-0.63	0.007	0.384
ENSMUST00000034333	ENSMUST00000034333	ens RIKEN cDNA 9030420J04 gene Gene [Source:MGI Symbol;Acc:MGI:1918794] [ENSMUST00000034333]	-0.63	0.036	0.495
Gm4979	NM_001142411	ref Mus musculus predicted gene 4979 (Gm4979), mRNA [NM_001142411]	-0.63	0.017	0.429
1700120O09Rik	AK007219	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:1700120O09 product:unclassifiable, full insert sequence. [AK007219]	-0.63	0.004	0.329
chr14:65436123-65436905_R	chr14:65436123-65436905_R	lincRNA:chr14:65436123-65436905 reverse strand	-0.63	0.004	0.330
LOC100045498	XM_001474406	ref PREDICTED: Mus musculus hypothetical protein LOC100045498 (LOC100045498), mRNA [XM_001474406]	-0.63	0.046	0.513
chr13:74516152-74528284_R	chr13:74516152-74528284_R	lincRNA:chr13:74516152-74528284 reverse strand	-0.63	0.003	0.299
Pigh	NM_029988	ref Mus musculus phosphatidylinositol glycan anchor biosynthesis, class H (Pigh), mRNA [NM_029988]	-0.63	0.028	0.474
Epb4.1l5	NM_001113416	ref Mus musculus erythrocyte protein band 4.1-like 5 (Epb4.1l5), transcript variant 2, mRNA [NM_001113416]	-0.63	0.031	0.480
Vmn1r211	NM_134243	ref Mus musculus vomeronasal 1 receptor 211 (Vmn1r211), mRNA [NM_134243]	-0.63	0.010	0.401
Gm9776	XM_001472542	ref PREDICTED: Mus musculus predicted gene, ENSMUSG00000042857 (ENSMUSG00000042857), mRNA [XM_001472542]	-0.63	0.011	0.407
chr5:122982442-123000053_F	chr5:122982442-123000053_F	lincRNA:chr5:122982442-123000053 forward strand	-0.64	0.035	0.493
chr6:136440100-136450050_R	chr6:136440100-136450050_R	lincRNA:chr6:136440100-136450050 reverse strand	-0.64	0.015	0.421
chr8:37590189-37590632_F	chr8:37590189-37590632_F	lincRNA:chr8:37590189-37590632 forward strand	-0.64	0.028	0.476
chr9:50961285-50962539_R	chr9:50961285-50962539_R	lincRNA:chr9:50961285-50962539 reverse strand	-0.64	0.004	0.312
chr13:5506700-5519000_R	chr13:5506700-5519000_R	lincRNA:chr13:5506700-5519000 reverse strand	-0.64	0.037	0.496
Kcnj13	NM_001110227	ref Mus musculus potassium inwardly-rectifying channel, subfamily J, member 13 (Kcnj13), mRNA [NM_001110227]	-0.64	0.035	0.495
Prss1	NM_053243	ref Mus musculus protease, serine, 1 (trypsin 1) (Prss1), mRNA [NM_053243]	-0.64	0.003	0.283
Rpl36a-ps2	XM_001475021	ref PREDICTED: Mus musculus similar to ribosomal protein L36a (LOC100040331), mRNA [XM_001475021]	-0.64	0.043	0.510
5830411N06Rik	NM_001128146	ref Mus musculus RIKEN cDNA 5830411N06 gene (5830411N06Rik), transcript variant 2, mRNA [NM_001128146]	-0.64	0.009	0.398
ENSMUST00000108245	ENSMUST00000108245	ens solute carrier family 7 (cationic amino acid transporter, y+ system), member 14 Gene [Source:MGI (curated);Acc:MGI:3040688] [ENSMUST00000108245]	-0.64	0.030	0.480
4933416C03Rik	NM_001161855	ref Mus musculus RIKEN cDNA 4933416C03 gene (4933416C03Rik), mRNA [NM_001161855]	-0.64	0.013	0.412
Fbxw13	NM_177598	ref Mus musculus F-box and WD-40 domain protein 13 (Fbxw13), mRNA [NM_177598]	-0.64	0.023	0.455
chr16:17833211-17835112_F	chr16:17833211-17835112_F	lincRNA:chr16:17833211-17835112 forward strand	-0.64	0.002	0.259
chr15:79764481-79809909_F	chr15:79764481-79809909_F	lincRNA:chr15:79764481-79809909 forward strand	-0.65	0.041	0.506
B020011L13Rik	XM_488281	ref PREDICTED: Mus musculus RIKEN cDNA B020011L13 gene, transcript variant 1 (B020011L13Rik), mRNA [XM_488281]	-0.65	0.040	0.504
chr12:85210777-85262127_F	chr12:85210777-85262127_F	lincRNA:chr12:85210777-85262127 forward strand	-0.65	0.031	0.482

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Olf1264	NM_021368	ref Mus musculus olfactory receptor 1264 (Olf1264), mRNA [NM_021368]	-0.65	0.036	0.495
C130026L21Rik	NR_015546	ref Mus musculus RIKEN cDNA C130026L21 gene (C130026L21Rik), non-coding RNA [NR_015546]	-0.65	0.044	0.512
Loxhd1	NM_172834	ref Mus musculus lipoxygenase homology domains 1 (Loxhd1), mRNA [NM_172834]	-0.65	0.011	0.406
chr1:141070245-141076841_R	chr1:141070245-141076841_R	lincRNA:chr1:141070245-141076841 reverse strand	-0.65	0.004	0.318
Clca4	NM_139148	ref Mus musculus chloride channel calcium activated 4 (Clca4), mRNA [NM_139148]	-0.65	0.011	0.406
Gm10190	NR_028385	ref Mus musculus predicted gene 10190 (Gm10190), non-coding RNA [NR_028385]	-0.65	0.046	0.513
Vmn2r71	NM_001105184	ref Mus musculus vomeronasal 2, receptor 71 (Vmn2r71), mRNA [NM_001105184]	-0.65	0.008	0.391
ENSMUST00000087474	ENSMUST00000087474	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3ULR8] [ENSMUST00000087474]	-0.65	0.015	0.419
Ebpl	NM_026598	ref Mus musculus emopamil binding protein-like (Ebpl), mRNA [NM_026598]	-0.65	0.046	0.514
ENSMUST00000105252	ENSMUST00000105252	ens GLI-Kruppel family member GLI1 Gene [Source:MGI Symbol;Acc:MGI:95727] [ENSMUST00000105252]	-0.65	0.043	0.510
XM_001000740	XM_001000740	ref PREDICTED: Mus musculus RIKEN cDNA 4930505N22 gene (4930505N22Rik), mRNA [XM_001000740]	-0.65	0.033	0.490
chr17:5795893-5835243_F	chr17:5795893-5835243_F	lincRNA:chr17:5795893-5835243 forward strand	-0.66	0.015	0.419
Cdkn2a	NM_009877	ref Mus musculus cyclin-dependent kinase inhibitor 2A (Cdkn2a), transcript variant 1, mRNA [NM_009877]	-0.66	0.040	0.504
Wdfy4	NM_001146022	ref Mus musculus WD repeat and FYVE domain containing 4 (Wdfy4), mRNA [NM_001146022]	-0.66	0.008	0.391
LOC385536	XM_913133	ref PREDICTED: Mus musculus similar to putative (LOC385536), mRNA [XM_913133]	-0.66	0.012	0.408
Gm600	ENSMUST00000079469	ref PREDICTED: Mus musculus gene model 600, (NCBI) (Gm600), mRNA [XM_983339]	-0.66	0.020	0.447
AK087124	AK087124	gb Mus musculus 0 day neonate lung cDNA, RIKEN full-length enriched library, clone:E030028L23 product:unclassifiable, full insert sequence. [AK087124]	-0.66	0.006	0.361
Gm5811	XM_001474656	ref PREDICTED: Mus musculus similar to LOC635138 protein (LOC545175), mRNA [XM_001474656]	-0.66	0.048	0.516
chr5:77239012-77271614_F	chr5:77239012-77271614_F	lincRNA:chr5:77239012-77271614 forward strand	-0.66	0.010	0.400
Pramef12	NM_029948	ref Mus musculus PRAME family member 12 (Pramef12), mRNA [NM_029948]	-0.66	0.022	0.452
chr12:13109460-13122709_F	chr12:13109460-13122709_F	lincRNA:chr12:13109460-13122709 forward strand	-0.66	0.008	0.391
Vmn2r94	NM_001104543	ref Mus musculus vomeronasal 2, receptor 94 (Vmn2r94), mRNA [NM_001104543]	-0.66	0.014	0.415
LOC100044020	XR_032265	ref PREDICTED: Mus musculus similar to H-2 class I histocompatibility antigen, Q7 alpha chain precursor (QA-2 antigen) (LOC100044020), misc RNA [XR_032265]	-0.66	0.032	0.485
Ifi203	NM_001045481	ref Mus musculus interferon activated gene 203 (Ifi203), transcript variant 1, mRNA [NM_001045481]	-0.66	0.018	0.437
chr14:52864224-52878449_R	chr14:52864224-52878449_R	lincRNA:chr14:52864224-52878449 reverse strand	-0.66	0.049	0.519
Gm6880	NM_001099305	ref Mus musculus predicted gene 6880 (Gm6880), mRNA [NM_001099305]	-0.67	0.013	0.412
LOC632209	XM_919447	ref PREDICTED: Mus musculus hypothetical LOC632209, transcript variant 3 (LOC632209), mRNA [XM_919447]	-0.67	0.024	0.461
chr5:15176325-15223375_R	chr5:15176325-15223375_R	lincRNA:chr5:15176325-15223375 reverse strand	-0.67	0.031	0.480

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr13:98571741-98603323_F	chr13:98571741-98603323_F	lincRNA:chr13:98571741-98603323 forward strand	-0.67	0.010	0.400
chr12:89448550-89461843_R	chr12:89448550-89461843_R	lincRNA:chr12:89448550-89461843 reverse strand	-0.67	0.006	0.369
ENSMUST00000061517	ENSMUST00000061517	ens RIKEN cDNA D830044D21 gene Gene [Source:MGI Symbol;Acc:MGI:2444378] [ENSMUST00000061517]	-0.67	0.018	0.435
chr5:74489084-74491430_F	chr5:74489084-74491430_F	lincRNA:chr5:74489084-74491430 forward strand	-0.67	0.007	0.381
chr8:126396600-126407275_R	chr8:126396600-126407275_R	lincRNA:chr8:126396600-126407275 reverse strand	-0.67	0.037	0.497
chr14:28231577-28242027_R	chr14:28231577-28242027_R	lincRNA:chr14:28231577-28242027 reverse strand	-0.67	0.025	0.464
chr6:120613889-120648725_R	chr6:120613889-120648725_R	lincRNA:chr6:120613889-120648725 reverse strand	-0.67	0.032	0.485
Cenpm	NM_178269	ref Mus musculus centromere protein M (Cenpm), transcript variant 2, mRNA [NM_178269]	-0.68	0.008	0.391
chr14:106068373-106146613_R	chr14:106068373-106146613_R	lincRNA:chr14:106068373-106146613 reverse strand	-0.68	0.009	0.393
Atcay	NM_178662	ref Mus musculus ataxia, cerebellar, Cayman type homolog (human) (Atcay), mRNA [NM_178662]	-0.68	0.001	0.197
Il1f6	NM_019450	ref Mus musculus interleukin 1 family, member 6 (Il1f6), mRNA [NM_019450]	-0.68	0.016	0.428
Spats1	NM_027649	ref Mus musculus spermatogenesis associated, serine-rich 1 (Spats1), mRNA [NM_027649]	-0.68	0.011	0.407
Arsi	NM_001038499	ref Mus musculus arylsulfatase i (Arsi), mRNA [NM_001038499]	-0.68	0.005	0.338
Gm3788	XM_001474769	ref PREDICTED: Mus musculus hypothetical protein LOC100045828 (LOC100045828), mRNA [XM_001474769]	-0.68	0.029	0.477
Gm318	XM_619462	ref PREDICTED: Mus musculus gene model 318, (NCBI) (Gm318), mRNA [XM_619462]	-0.68	0.046	0.514
chr4:3169583-3180017_F	chr4:3169583-3180017_F	lincRNA:chr4:3169583-3180017 forward strand	-0.68	0.040	0.504
Grk1	NM_011881	ref Mus musculus G protein-coupled receptor kinase 1 (Grk1), mRNA [NM_011881]	-0.68	0.024	0.459
Lipk	NM_172837	ref Mus musculus lipase, family member K (Lipk), mRNA [NM_172837]	-0.68	0.002	0.281
chr4:63736566-63744848_R	chr4:63736566-63744848_R	lincRNA:chr4:63736566-63744848 reverse strand	-0.68	0.026	0.469
Olfir728	NM_001011809	ref Mus musculus olfactory receptor 728 (Olfir728), mRNA [NM_001011809]	-0.68	0.008	0.391
Olfir776	NM_207559	ref Mus musculus olfactory receptor 776 (Olfir776), mRNA [NM_207559]	-0.69	0.021	0.448
Vmn2r28	NM_001081405	ref Mus musculus vomeronasal 2, receptor 28 (Vmn2r28), mRNA [NM_001081405]	-0.69	0.049	0.519
LOC100047516	XM_001478504	ref PREDICTED: Mus musculus similar to casein kinase 1, gamma 3, transcript variant 1 (LOC100047516), mRNA [XM_001478504]	-0.69	0.010	0.405
Reg3g	NM_011260	ref Mus musculus regenerating islet-derived 3 gamma (Reg3g), mRNA [NM_011260]	-0.70	0.013	0.412
chr9:30805020-30810645_R	chr9:30805020-30810645_R	lincRNA:chr9:30805020-30810645 reverse strand	-0.70	0.040	0.501
6530401D17Rik	NM_029541	ref Mus musculus RIKEN cDNA 6530401D17 gene (6530401D17Rik), mRNA [NM_029541]	-0.70	0.042	0.507
Cd109	NM_153098	ref Mus musculus CD109 antigen (Cd109), mRNA [NM_153098]	-0.70	0.026	0.471
Hoxd10	NM_013554	ref Mus musculus homeobox D10 (Hoxd10), mRNA [NM_013554]	-0.70	0.027	0.471
Col5a3	NM_016919	ref Mus musculus collagen, type V, alpha 3 (Col5a3), mRNA [NM_016919]	-0.70	0.030	0.478
chr10:92798725-92811622_F	chr10:92798725-92811622_F	lincRNA:chr10:92798725-92811622 forward strand	-0.70	0.032	0.484

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Gm7225	XM_001001994	ref PREDICTED: Mus musculus predicted gene, EG637939 (EG637939), mRNA [XM_001001994]	-0.70	0.017	0.435
chr19:46419916-46421753_F	chr19:46419916-46421753_F	lincRNA:chr19:46419916-46421753 forward strand	-0.70	0.006	0.369
Gm5595	NM_001008427	ref Mus musculus predicted gene 5595 (Gm5595), mRNA [NM_001008427]	-0.70	0.022	0.451
Krtap20-2	NM_001163615	ref Mus musculus keratin associated protein 20-2 (Krtap20-2), mRNA [NM_001163615]	-0.70	0.002	0.262
TC1660977	TC1660977	tc Q7T354_BRARE (Q7T354) Zgc:64095, partial (6%) [TC1660977]	-0.70	0.005	0.338
Vmn2r66	NM_001033878	ref Mus musculus vomeronasal 2, receptor 66 (Vmn2r66), mRNA [NM_001033878]	-0.70	0.030	0.477
D15Ert55e	C77618	gb C77618 Mouse 3.5-dpc blastocyst cDNA Mus musculus cDNA clone J0034F04 3'. [C77618]	-0.70	0.028	0.475
Btn2a2	NM_175938	ref Mus musculus butyrophilin, subfamily 2, member A2 (Btn2a2), mRNA [NM_175938]	-0.70	0.031	0.480
2610002D18Rik	NM_001081099	ref Mus musculus RIKEN cDNA 2610002D18 gene (2610002D18Rik), mRNA [NM_001081099]	-0.70	0.046	0.513
Gja6	NM_001001496	ref Mus musculus gap junction protein, alpha 6 (Gja6), mRNA [NM_001001496]	-0.70	0.007	0.382
LOC100044949	XR_031188	ref PREDICTED: Mus musculus similar to teneurin-2 (LOC100044949), misc RNA [XR_031188]	-0.71	0.013	0.412
chr9:46894029-46973977_R	chr9:46894029-46973977_R	lincRNA:chr9:46894029-46973977 reverse strand	-0.71	0.014	0.414
Pbp2	NM_029595	ref Mus musculus phosphatidylethanolamine binding protein 2 (Pbp2), mRNA [NM_029595]	-0.71	0.016	0.426
XM_985627	XM_985627	ref PREDICTED: Mus musculus hypothetical LOC675853 (LOC675853), mRNA [XM_985627]	-0.71	0.043	0.510
Gm3716	XM_001478025	ref PREDICTED: Mus musculus hypothetical protein LOC100047135 (LOC100047135), mRNA [XM_001478025]	-0.71	0.026	0.468
Gm5279	XR_032257	ref PREDICTED: Mus musculus similar to stratifin (LOC383901), misc RNA [XR_032257]	-0.71	0.018	0.435
chr17:13220550-13236900_R	chr17:13220550-13236900_R	lincRNA:chr17:13220550-13236900 reverse strand	-0.71	0.028	0.476
chr10:69667411-69678033_F	chr10:69667411-69678033_F	lincRNA:chr10:69667411-69678033 forward strand	-0.71	0.035	0.495
4732463B04Rik	AK132490	gb Mus musculus 10 days neonate skin cDNA, RIKEN full-length enriched library, clone:4732463B04 product:hypothetical protein, full insert sequence. [AK132490]	-0.72	0.048	0.516
chr1:81854900-81906900_F	chr1:81854900-81906900_F	lincRNA:chr1:81854900-81906900 forward strand	-0.72	0.006	0.369
chr6:67155508-67216941_F	chr6:67155508-67216941_F	lincRNA:chr6:67155508-67216941 forward strand	-0.72	0.011	0.407
chr12:82495575-82516300_R	chr12:82495575-82516300_R	lincRNA:chr12:82495575-82516300 reverse strand	-0.72	0.005	0.340
LOC674595	XM_975798	ref PREDICTED: Mus musculus similar to heterogeneous nuclear ribonucleoprotein A3 (LOC674595), mRNA [XM_975798]	-0.72	0.021	0.449
Btnl2	NM_079835	ref Mus musculus butyrophilin-like 2 (Btnl2), mRNA [NM_079835]	-0.73	0.034	0.491
chrX:120590872-120598071_R	chrX:120590872-120598071_R	lincRNA:chrX:120590872-120598071 reverse strand	-0.73	0.003	0.282
chr10:94848446-94874121_F	chr10:94848446-94874121_F	lincRNA:chr10:94848446-94874121 forward strand	-0.73	0.003	0.282
chr17:26911397-26917047_R	chr17:26911397-26917047_R	lincRNA:chr17:26911397-26917047 reverse strand	-0.73	0.046	0.514
Grem1	NM_011824	ref Mus musculus gremlin 1 (Grem1), mRNA [NM_011824]	-0.73	0.042	0.508
chr1:57410074-57426723_F	chr1:57410074-57426723_F	lincRNA:chr1:57410074-57426723 forward strand	-0.73	0.045	0.513
chrX:7626297-7636950_F	chrX:7626297-7636950_F	lincRNA:chrX:7626297-7636950 forward strand	-0.73	0.014	0.412

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Ido1	NM_008324	ref Mus musculus indoleamine 2,3-dioxygenase 1 (Ido1), mRNA [NM_008324]	-0.73	0.016	0.425
Tmem26	NM_177794	ref Mus musculus transmembrane protein 26 (Tmem26), mRNA [NM_177794]	-0.74	0.019	0.439
chr12:12768528-12849976_R	chr12:12768528-12849976_R	lincRNA:chr12:12768528-12849976 reverse strand	-0.74	0.003	0.303
chr3:86961614-86966377_F	chr3:86961614-86966377_F	lincRNA:chr3:86961614-86966377 forward strand	-0.74	0.012	0.410
Barhl1	NM_019446	ref Mus musculus BarH-like 1 (Drosophila) (Barhl1), transcript variant 1, mRNA [NM_019446]	-0.74	0.008	0.392
XM_001479606	XM_001479606	ref PREDICTED: Mus musculus hypothetical protein LOC100048194 (LOC100048194), mRNA [XM_001479606]	-0.74	0.045	0.513
ENSMUST00000100923	ENSMUST00000100923	ens RIKEN cDNA 9230020A06 gene Gene [Source:MGI Symbol;Acc:MGI:3588244] [ENSMUST00000100923]	-0.74	0.002	0.248
Syn3	NM_001164495	ref Mus musculus synapsin III (Syn3), transcript variant 2, mRNA [NM_001164495]	-0.74	0.026	0.470
chr10:39659425-39674200_R	chr10:39659425-39674200_R	lincRNA:chr10:39659425-39674200 reverse strand	-0.75	0.037	0.496
Zfp831	NM_001099328	ref Mus musculus zinc finger protein 831 (Zfp831), mRNA [NM_001099328]	-0.75	0.021	0.448
chr10:118385588-118439338_F	chr10:118385588-118439338_F	lincRNA:chr10:118385588-118439338 forward strand	-0.75	0.007	0.374
D630045M09Rik	AK131952	gb Mus musculus ES cells cDNA, RIKEN full-length enriched library, clone:2410071D21 product:similar to LRRGT00034 [Rattus norvegicus], full insert sequence. [AK131952]	-0.75	0.006	0.361
chr7:105964846-105965163_F	chr7:105964846-105965163_F	lincRNA:chr7:105964846-105965163 forward strand	-0.75	0.038	0.499
Veph1	NM_145820	ref Mus musculus ventricular zone expressed PH domain homolog 1 (zebrafish) (Veph1), transcript variant Veph-A, mRNA [NM_145820]	-0.76	0.019	0.437
chr2:94008913-94019798_F	chr2:94008913-94019798_F	lincRNA:chr2:94008913-94019798 forward strand	-0.76	0.003	0.305
Pr16a1	NM_011166	ref Mus musculus prolactin family 6, subfamily a, member 1 (Pr16a1), mRNA [NM_011166]	-0.76	0.011	0.406
Gm821	XM_287066	ref PREDICTED: Mus musculus gene model 821, (NCBI) (Gm821), mRNA [XM_287066]	-0.77	0.026	0.471
Gm12346	BG864327	gb 602797395F1 NCI_CGAP_Mam4 Mus musculus cDNA clone IMAGE:4918487 5', mRNA sequence [BG864327]	-0.77	0.011	0.406
chr1:36095790-36096193_R	chr1:36095790-36096193_R	lincRNA:chr1:36095790-36096193 reverse strand	-0.77	0.004	0.324
Gm9997	ENSMUST00000070468	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q8C8Z0] [ENSMUST00000070468]	-0.77	0.006	0.358
LOC100044496	XM_001472432	ref PREDICTED: Mus musculus similar to eukaryotic translation elongation factor 1 alpha 1-like 14 (LOC100044496), mRNA [XM_001472432]	-0.77	0.009	0.398
Pigb	NM_018889	ref Mus musculus phosphatidylinositol glycan anchor biosynthesis, class B (Pigb), mRNA [NM_018889]	-0.77	0.012	0.412
Gatm	NM_025961	ref Mus musculus glycine amidinotransferase (L-arginine:glycine amidinotransferase) (Gatm), nuclear gene encoding mitochondrial protein, mRNA [NM_025961]	-0.78	0.019	0.437
Gm8640	XM_001002194	ref PREDICTED: Mus musculus predicted gene, EG667450 (EG667450), mRNA [XM_001002194]	-0.78	0.021	0.447
Lrrc34	NM_027941	ref Mus musculus leucine rich repeat containing 34 (Lrrc34), mRNA [NM_027941]	-0.78	0.012	0.412
9530059O14Rik	NR_015610	ref Mus musculus RIKEN cDNA 9530059O14 gene (9530059O14Rik), non-coding RNA [NR_015610]	-0.78	0.003	0.293
Olf1323	NM_146390	ref Mus musculus olfactory receptor 1323 (Olf1323), mRNA [NM_146390]	-0.78	0.023	0.456

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
chr12:21380896-21387071_F	chr12:21380896-21387071_F	lincRNA:chr12:21380896-21387071 forward strand	-0.78	0.009	0.398
Olf1454	NM_146692	ref Mus musculus olfactory receptor 1454 (Olf1454), mRNA [NM_146692]	-0.78	0.010	0.403
Gm6289	NM_001039222	ref Mus musculus predicted gene 6289 (Gm6289), mRNA [NM_001039222]	-0.78	0.005	0.341
Pbsn	NM_017471	ref Mus musculus probasin (Pbsn), mRNA [NM_017471]	-0.79	0.048	0.518
Ano5	NM_177694	ref Mus musculus anoctamin 5 (Ano5), mRNA [NM_177694]	-0.79	0.008	0.393
chr3:41143423-41359623_F	chr3:41143423-41359623_F	lincRNA:chr3:41143423-41359623 forward strand	-0.79	0.022	0.452
LOC100045638	XM_001474652	ref PREDICTED: Mus musculus hypothetical protein LOC100045638 (LOC100045638), mRNA [XM_001474652]	-0.80	0.046	0.513
Klra7	NM_001110323	ref Mus musculus killer cell lectin-like receptor, subfamily A, member 7 (Klra7), transcript variant 1, mRNA [NM_001110323]	-0.80	0.003	0.303
Olf495	NM_146364	ref Mus musculus olfactory receptor 495 (Olf495), mRNA [NM_146364]	-0.80	0.049	0.519
Gm16529	XM_001472504	ref PREDICTED: Mus musculus hypothetical protein LOC100039235 (LOC100039235), mRNA [XM_001472504]	-0.80	0.015	0.419
Olf705	NM_147032	ref Mus musculus olfactory receptor 705 (Olf705), mRNA [NM_147032]	-0.81	0.020	0.447
Mup9	NM_001126319	ref Mus musculus major urinary protein 9 (Mup9), mRNA [NM_001126319]	-0.81	0.047	0.514
LOC100044390	XM_001472264	ref PREDICTED: Mus musculus similar to spermatogenesis associated glutamate (E)-rich protein 4d (LOC100044390), mRNA [XM_001472264]	-0.81	0.023	0.454
chr6:112552041-112560067_R	chr6:112552041-112560067_R	lincRNA:chr6:112552041-112560067 reverse strand	-0.81	0.005	0.353
chr6:140557582-140557917_F	chr6:140557582-140557917_F	lincRNA:chr6:140557582-140557917 forward strand	-0.81	0.021	0.449
Gm4794	NM_001101452	ref Mus musculus predicted gene 4794 (Gm4794), mRNA [NM_001101452]	-0.81	0.004	0.329
Diras2	NM_001024474	ref Mus musculus DIRAS family, GTP-binding RAS-like 2 (Diras2), mRNA [NM_001024474]	-0.81	0.024	0.457
Fam163a	NM_177838	ref Mus musculus family with sequence similarity 163, member A (Fam163a), mRNA [NM_177838]	-0.81	0.033	0.490
Gm13959	XM_001478172	ref PREDICTED: Mus musculus similar to T-cell receptor alpha chain (LOC382180), mRNA [XM_001478172]	-0.81	0.023	0.456
chr16:64758224-64765700_F	chr16:64758224-64765700_F	lincRNA:chr16:64758224-64765700 forward strand	-0.82	0.043	0.510
1700018L24Rik	NM_029326	ref Mus musculus RIKEN cDNA 1700018L24 gene (1700018L24Rik), mRNA [NM_029326]	-0.82	0.009	0.393
Fcrla	NM_145141	ref Mus musculus Fc receptor-like A (Fcrla), transcript variant 2, mRNA [NM_145141]	-0.82	0.024	0.459
Car5a	NM_007608	ref Mus musculus carbonic anhydrase 5a, mitochondrial (Car5a), nuclear gene encoding mitochondrial protein, mRNA [NM_007608]	-0.83	0.002	0.281
Gm5282	XM_357327	ref PREDICTED: Mus musculus predicted gene, EG383925 (EG383925), mRNA [XM_357327]	-0.83	0.017	0.429
chr12:115365529-115379374_R	chr12:115365529-115379374_R	lincRNA:chr12:115365529-115379374 reverse strand	-0.83	0.013	0.412
chr1:160888257-160910594_R	chr1:160888257-160910594_R	lincRNA:chr1:160888257-160910594 reverse strand	-0.83	0.037	0.497
chr3:148884650-148888709_R	chr3:148884650-148888709_R	lincRNA:chr3:148884650-148888709 reverse strand	-0.83	0.006	0.369
chr19:61226425-61270975_F	chr19:61226425-61270975_F	lincRNA:chr19:61226425-61270975 forward strand	-0.83	0.010	0.401
chr5:74340084-74346709_F	chr5:74340084-74346709_F	lincRNA:chr5:74340084-74346709 forward strand	-0.83	0.008	0.392

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000032506	ENSMUST00000032506	ens RIKEN cDNA 4933413G19 gene Gene [Source:MGI Symbol;Acc:MGI:1918399] [ENSMUST00000032506]	-0.83	0.006	0.361
chr4:128727332-128735227_F	chr4:128727332-128735227_F	lincRNA:chr4:128727332-128735227 forward strand	-0.84	0.019	0.441
chr9:41368823-41369514_F	chr9:41368823-41369514_F	lincRNA:chr9:41368823-41369514 forward strand	-0.84	0.006	0.366
chr10:5950116-5958250_F	chr10:5950116-5958250_F	lincRNA:chr10:5950116-5958250 forward strand	-0.84	0.004	0.326
Olf624	NM_001011865	ref Mus musculus olfactory receptor 624 (Olf624), mRNA [NM_001011865]	-0.84	0.041	0.505
LOC100044879	XM_001473246	ref PREDICTED: Mus musculus similar to histocompatibility antigen 60 (LOC100044879), mRNA [XM_001473246]	-0.84	0.035	0.493
Crisp1	NM_009638	ref Mus musculus cysteine-rich secretory protein 1 (Crisp1), mRNA [NM_009638]	-0.85	0.002	0.281
chrX:31867450-32124664_F	chrX:31867450-32124664_F	lincRNA:chrX:31867450-32124664 forward strand	-0.85	0.001	0.214
Rab6b	NM_173781	ref Mus musculus RAB6B, member RAS oncogene family (Rab6b), mRNA [NM_173781]	-0.85	0.036	0.496
Gm13793	XM_001479764	ref PREDICTED: Mus musculus hypothetical protein LOC100048373 (LOC100048373), mRNA [XM_001479764]	-0.86	0.025	0.463
ENSMUST00000057096	ENSMUST00000057096	ens RIKEN cDNA A430090L17 gene Gene [Source:MGI Symbol;Acc:MGI:2442754] [ENSMUST00000057096]	-0.86	0.021	0.450
Senp8	NM_001172068	ref Mus musculus SUMO/sentrin specific peptidase 8 (Senp8), transcript variant 1, mRNA [NM_001172068]	-0.86	0.044	0.511
Scnn1g	NM_011326	ref Mus musculus sodium channel, nonvoltage-gated 1 gamma (Scnn1g), mRNA [NM_011326]	-0.87	0.011	0.407
Chrna3	NM_145129	ref Mus musculus cholinergic receptor, nicotinic, alpha polypeptide 3 (Chma3), mRNA [NM_145129]	-0.87	0.045	0.513
chr7:99879368-99889978_F	chr7:99879368-99889978_F	lincRNA:chr7:99879368-99889978 forward strand	-0.87	0.035	0.493
LOC100046308	XM_001475990	ref PREDICTED: Mus musculus similar to H2A-Bbd (LOC100046308), mRNA [XM_001475990]	-0.87	0.039	0.500
chr9:122481619-122588714_F	chr9:122481619-122588714_F	lincRNA:chr9:122481619-122588714 forward strand	-0.88	0.016	0.426
Vmn1r19	NM_134182	ref Mus musculus vomeronasal 1 receptor 19 (Vmn1r19), mRNA [NM_134182]	-0.88	0.035	0.495
Aif1	NM_019467	ref Mus musculus allograft inflammatory factor 1 (Aif1), mRNA [NM_019467]	-0.88	0.046	0.513
Olf155	NM_019473	ref Mus musculus olfactory receptor 155 (Olf155), mRNA [NM_019473]	-0.88	0.014	0.412
4930429D17Rik	XM_001474971	ref PREDICTED: Mus musculus RIKEN cDNA 4930429D17 gene (4930429D17Rik), mRNA [XM_001474971]	-0.88	0.005	0.341
ENSMUST00000103598	ENSMUST00000103598	ens predicted gene 6037 Gene [Source:MGI Symbol;Acc:MGI:3649172] [ENSMUST00000103598]	-0.89	0.039	0.500
chr6:47917337-47917697_R	chr6:47917337-47917697_R	lincRNA:chr6:47917337-47917697 reverse strand	-0.89	0.018	0.435
chr12:110003268-110030953_F	chr12:110003268-110030953_F	lincRNA:chr12:110003268-110030953 forward strand	-0.89	0.025	0.466
Gabra4	NM_010251	ref Mus musculus gamma-aminobutyric acid (GABA) A receptor, subunit alpha 4 (Gabra4), mRNA [NM_010251]	-0.89	0.010	0.401
chr7:108246261-108247836_F	chr7:108246261-108247836_F	lincRNA:chr7:108246261-108247836 forward strand	-0.90	0.007	0.374
chr13:59969950-59989725_R	chr13:59969950-59989725_R	lincRNA:chr13:59969950-59989725 reverse strand	-0.90	0.036	0.495
Tas2r114	NM_207019	ref Mus musculus taste receptor, type 2, member 114 (Tas2r114), mRNA [NM_207019]	-0.90	0.045	0.513
Ttc39a	NM_153392	ref Mus musculus tetratricopeptide repeat domain 39A (Ttc39a), transcript variant 2, mRNA [NM_153392]	-0.91	0.012	0.409

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Gm13815	XR_034204	ref PREDICTED: Mus musculus similar to ribosomal protein S27a (LOC100043205), misc RNA [XR_034204]	-0.92	0.024	0.458
Vmn1r15	NM_053236	ref Mus musculus vomeronasal 1 receptor 15 (Vmn1r15), mRNA [NM_053236]	-0.92	0.011	0.406
Fezf1	NM_028462	ref Mus musculus Fez family zinc finger 1 (Fezf1), mRNA [NM_028462]	-0.92	0.030	0.477
H2-DMb1	NM_010387	ref Mus musculus histocompatibility 2, class II, locus Mb1 (H2-DMb1), mRNA [NM_010387]	-0.93	0.012	0.412
Olfir340	NM_146951	ref Mus musculus olfactory receptor 340 (Olfir340), mRNA [NM_146951]	-0.93	0.003	0.303
4930549C01Rik	NM_026300	ref Mus musculus RIKEN cDNA 4930549C01 gene (4930549C01Rik), mRNA [NM_026300]	-0.93	0.011	0.407
chr2:150217425-150266600_F	chr2:150217425-150266600_F	lincRNA:chr2:150217425-150266600 forward strand	-0.94	0.011	0.407
1810046K07Rik	NM_027217	ref Mus musculus RIKEN cDNA 1810046K07 gene (1810046K07Rik), mRNA [NM_027217]	-0.94	0.012	0.409
ENSMUST0000012231	ENSMUST0000012231	ens RUN and FYVE domain-containing 2 Gene [Source:MGI (curated);Acc:MGI:1917682] [ENSMUST0000012231]	-0.96	0.005	0.341
chr12:72103832-72116875_R	chr12:72103832-72116875_R	lincRNA:chr12:72103832-72116875 reverse strand	-0.97	0.008	0.391
Mrgpra5	NM_207534	ref Mus musculus MAS-related GPR, member A5 (Mrgpra5), mRNA [NM_207534]	-0.98	0.012	0.409
Fam70b	NM_001143671	ref Mus musculus family with sequence similarity 70, member B (Fam70b), transcript variant 1, mRNA [NM_001143671]	-0.98	0.041	0.506
Ptpn2	NM_011215	ref Mus musculus protein tyrosine phosphatase, receptor type, N polypeptide 2 (Ptpn2), mRNA [NM_011215]	-0.98	0.002	0.257
chr15:79764481-79809909_R	chr15:79764481-79809909_R	lincRNA:chr15:79764481-79809909 reverse strand	-0.99	0.017	0.429
LOC100048469	XM_001480313	ref PREDICTED: Mus musculus similar to T cell receptor alpha chain AV10S10 (LOC100048469), mRNA [XM_001480313]	-0.99	0.018	0.435
chr5:79845827-79846360_R	chr5:79845827-79846360_R	lincRNA:chr5:79845827-79846360 reverse strand	-0.99	0.016	0.428
chr5:22810359-22836386_F	chr5:22810359-22836386_F	lincRNA:chr5:22810359-22836386 forward strand	-1.00	0.002	0.262
ENSMUST00000097635	ENSMUST00000097635	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UNV9] [ENSMUST00000097635]	-1.00	0.003	0.305
chr3:38324807-38342556_R	chr3:38324807-38342556_R	lincRNA:chr3:38324807-38342556 reverse strand	-1.01	0.028	0.476
Vmn1r13	NM_053235	ref Mus musculus vomeronasal 1 receptor 13 (Vmn1r13), mRNA [NM_053235]	-1.02	0.021	0.449
LOC637093	XM_912681	ref PREDICTED: Mus musculus hypothetical LOC637093 (LOC637093), mRNA [XM_912681]	-1.03	0.011	0.407
Zfp541	NM_001099277	ref Mus musculus zinc finger protein 541 (Zfp541), mRNA [NM_001099277]	-1.06	0.045	0.513
chr7:31993375-31999171_F	chr7:31993375-31999171_F	lincRNA:chr7:31993375-31999171 forward strand	-1.06	0.002	0.262
BC061237	NM_198677	ref Mus musculus cDNA sequence BC061237 (BC061237), mRNA [NM_198677]	-1.08	0.038	0.499
LOC100048060	XR_034197	ref PREDICTED: Mus musculus similar to tripartite motif protein TRIM12 (LOC100048060), misc RNA [XR_034197]	-1.08	0.005	0.354
chr4:8566129-8568514_R	chr4:8566129-8568514_R	lincRNA:chr4:8566129-8568514 reverse strand	-1.09	0.002	0.279
Stau1	NM_001109906	ref Mus musculus staufer (RNA binding protein) homolog 1 (Drosophila) (Stau1), transcript variant 1, mRNA [NM_001109906]	-1.10	0.005	0.339
Olfir196	NM_146779	ref Mus musculus olfactory receptor 196 (Olfir196), mRNA [NM_146779]	-1.11	0.012	0.412

Online Supplemental Table IV: mG4H-STZ Only

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value
Cx3cr1	NM_009987	ref Mus musculus chemokine (C-X3-C) receptor 1 (Cx3cr1), mRNA [NM_009987]	-1.12	0.019	0.441
chr12:110738120-110769295_F	chr12:110738120-110769295_F	lincRNA:chr12:110738120-110769295 forward strand	-1.12	0.003	0.306
Arhgap24	NM_029270	ref Mus musculus Rho GTPase activating protein 24 (Arhgap24), transcript variant 1, mRNA [NM_029270]	-1.16	0.023	0.454
Olf1076	NM_146406	ref Mus musculus olfactory receptor 1076 (Olf1076), mRNA [NM_146406]	-1.18	0.047	0.515
chr8:114477602-114488627_F	chr8:114477602-114488627_F	lincRNA:chr8:114477602-114488627 forward strand	-1.18	0.002	0.275
Tfrc	NM_011638	ref Mus musculus transferrin receptor (Tfrc), mRNA [NM_011638]	-1.18	0.035	0.495
chr7:4827340-4863315_F	chr7:4827340-4863315_F	lincRNA:chr7:4827340-4863315 forward strand	-1.20	0.011	0.406
chr9:121845920-121858120_F	chr9:121845920-121858120_F	lincRNA:chr9:121845920-121858120 forward strand	-1.21	0.042	0.508
LOC638560	XM_914625	ref PREDICTED: Mus musculus similar to hCG2038926 (LOC638560), mRNA [XM_914625]	-1.23	0.030	0.477
chr7:71231097-71233680_R	chr7:71231097-71233680_R	lincRNA:chr7:71231097-71233680 reverse strand	-1.25	0.000	0.115
chr7:48794017-48815817_R	chr7:48794017-48815817_R	lincRNA:chr7:48794017-48815817 reverse strand	-1.27	0.036	0.495
Gm7276	AK158289	gb Mus musculus adult inner ear cDNA, RIKEN full-length enriched library, clone:F930101C16 product:hypothetical protein, full insert sequence. [AK158289]	-1.29	0.003	0.281
Fam83b	NM_001045518	ref Mus musculus family with sequence similarity 83, member B (Fam83b), mRNA [NM_001045518]	-1.30	0.004	0.318
Olf99	NM_146515	ref Mus musculus olfactory receptor 99 (Olf99), mRNA [NM_146515]	-1.31	0.004	0.335
chr12:8451791-8452287_R	chr12:8451791-8452287_R	lincRNA:chr12:8451791-8452287 reverse strand	-1.32	0.036	0.495
chr2:78761468-78772543_R	chr2:78761468-78772543_R	lincRNA:chr2:78761468-78772543 reverse strand	-1.40	0.042	0.508
chr16:91174611-91200786_F	chr16:91174611-91200786_F	lincRNA:chr16:91174611-91200786 forward strand	-1.42	0.017	0.433
chr9:13224147-13424397_F	chr9:13224147-13424397_F	lincRNA:chr9:13224147-13424397 forward strand	-1.42	0.000	0.121
chr12:72103832-72116875_F	chr12:72103832-72116875_F	lincRNA:chr12:72103832-72116875 forward strand	-1.53	0.012	0.409
chr6:120670699-120677449_R	chr6:120670699-120677449_R	lincRNA:chr6:120670699-120677449 reverse strand	-1.57	0.021	0.450
chr7:26202452-26224557_F	chr7:26202452-26224557_F	lincRNA:chr7:26202452-26224557 forward strand	-1.62	0.030	0.477
Vmn2r48	NM_001105152	ref Mus musculus vomeronasal 2, receptor 48 (Vmn2r48), mRNA [NM_001105152]	-1.62	0.039	0.499
Cx3cr1	NM_009987	ref Mus musculus chemokine (C-X3-C) receptor 1 (Cx3cr1), mRNA [NM_009987]	-1.72	0.043	0.509
chr7:114369337-114407862_F	chr7:114369337-114407862_F	lincRNA:chr7:114369337-114407862 forward strand	-1.93	0.011	0.406
EG667188	XM_001476143	ref PREDICTED: Mus musculus predicted gene, EG667188 (EG667188), mRNA [XM_001476143]	-2.41	0.000	0.084

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Mmp3	NM_010809	ref Mus musculus matrix metalloproteinase 3 (Mmp3), mRNA [NM_010809]	1.51	0.000	0.021
Mthfd2	NM_008638	ref Mus musculus methylenetetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (Mthfd2), nuclear gene encoding mitochondrial protein, mRNA [NM_008638]	1.49	0.000	0.011
Map3k6	AB021861	gb Mus musculus ASK2 mRNA for apoptosis signal-regulating kinase 2, complete cds. [AB021861]	1.49	0.004	0.127
Map3k6	NM_016693	ref Mus musculus mitogen-activated protein kinase kinase kinase 6 (Map3k6), mRNA [NM_016693]	1.48	0.005	0.147
ENSMUST00000097860	ENSMUST00000097860	ens protein tyrosine phosphatase, receptor type, U Gene [Source:MGI (curated);Acc:MGI:1321151] [ENSMUST00000097860]	1.44	0.042	0.423
Slc10a6	NM_029415	ref Mus musculus solute carrier family 10 (sodium/bile acid cotransporter family), member 6 (Slc10a6), mRNA [NM_029415]	1.43	0.002	0.097
Fam107a	NM_183187	ref Mus musculus family with sequence similarity 107, member A (Fam107a), mRNA [NM_183187]	1.39	0.015	0.260
Per1	NM_011065	ref Mus musculus period homolog 1 (Drosophila) (Per1), transcript variant 1, mRNA [NM_011065]	1.37	0.003	0.110
Scd4	NM_183216	ref Mus musculus stearyl-coenzyme A desaturase 4 (Scd4), mRNA [NM_183216]	1.33	0.000	0.001
chr8:67542714-67561694_F	chr8:67542714-67561694_F	lincRNA:chr8:67542714-67561694 forward strand	1.29	0.019	0.291
Slc10a6	NM_029415	ref Mus musculus solute carrier family 10 (sodium/bile acid cotransporter family), member 6 (Slc10a6), mRNA [NM_029415]	1.27	0.001	0.076
Lox	NM_010728	ref Mus musculus lysyl oxidase (Lox), mRNA [NM_010728]	1.27	0.003	0.120
Cfd	NM_013459	ref Mus musculus complement factor D (adipsin) (Cfd), mRNA [NM_013459]	1.27	0.014	0.257
Postn	NM_015784	ref Mus musculus periostin, osteoblast specific factor (Postn), mRNA [NM_015784]	1.23	0.008	0.184
Gm13078	NM_001085412	ref Mus musculus predicted gene 13078 (Gm13078), mRNA [NM_001085412]	1.22	0.028	0.351
Saa3	NM_011315	ref Mus musculus serum amyloid A 3 (Saa3), mRNA [NM_011315]	1.18	0.002	0.087
ENSMUST00000100092	ENSMUST00000100092	ens signal transducing adaptor molecule (SH3 domain and ITAM motif) 2 Gene [Source:MGI (curated);Acc:MGI:1929100] [ENSMUST00000100092]	1.17	0.003	0.110
C4b	NM_009780	ref Mus musculus complement component 4B (Childo blood group) (C4b), mRNA [NM_009780]	1.15	0.001	0.078
Fkbp5	NM_010220	ref Mus musculus FK506 binding protein 5 (Fkbp5), mRNA [NM_010220]	1.13	0.009	0.204
chr15:32167516-32174427_R	chr15:32167516-32174427_R	lincRNA:chr15:32167516-32174427 reverse strand	1.09	0.006	0.166
Gm129	NM_001033302	ref Mus musculus predicted gene 129 (Gm129), mRNA [NM_001033302]	1.08	0.001	0.080
Fetub	NM_021564	ref Mus musculus fetuin beta (Fetub), transcript variant 1, mRNA [NM_021564]	1.04	0.015	0.260
Pamr1	NM_173749	ref Mus musculus peptidase domain containing associated with muscle regeneration 1 (Pamr1), mRNA [NM_173749]	1.04	0.002	0.085
Zbtb16	NM_001033324	ref Mus musculus zinc finger and BTB domain containing 16 (Zbtb16), mRNA [NM_001033324]	1.03	0.027	0.342
Kcnj4	NM_008427	ref Mus musculus potassium inwardly-rectifying channel, subfamily J, member 4 (Kcnj4), mRNA [NM_008427]	1.03	0.010	0.208
Cebpd	NM_007679	ref Mus musculus CCAAT/enhancer binding protein (C/EBP), delta (Cebpd), mRNA [NM_007679]	1.03	0.001	0.058

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Wee1	NM_009516	ref Mus musculus WEE 1 homolog 1 (S. pombe) (Wee1), mRNA [NM_009516]	1.03	0.003	0.126
Gpnmb	NM_053110	ref Mus musculus glycoprotein (transmembrane) nmb (Gpnmb), mRNA [NM_053110]	1.02	0.000	0.025
LOC100046015	XM_001475355	ref PREDICTED: Mus musculus hypothetical protein LOC100046015 (LOC100046015), mRNA [XM_001475355]	1.02	0.037	0.400
Fhad1	NM_177868	ref Mus musculus forkhead-associated (FHA) phosphopeptide binding domain 1 (Fhad1), mRNA [NM_177868]	1.01	0.001	0.062
Gm12551	XM_001474593	ref PREDICTED: Mus musculus similar to adipose differentiation related protein (LOC100040388), mRNA [XM_001474593]	1.00	0.001	0.072
Hp	NM_017370	ref Mus musculus haptoglobin (Hp), mRNA [NM_017370]	0.99	0.037	0.399
chr12:16447954-16448489_F	chr12:16447954-16448489_F	lincRNA:chr12:16447954-16448489 forward strand	0.99	0.049	0.456
Gm5127	NM_001033541	ref Mus musculus predicted gene 5127 (Gm5127), mRNA [NM_001033541]	0.95	0.020	0.295
Has1	NM_008215	ref Mus musculus hyaluronan synthase1 (Has1), mRNA [NM_008215]	0.95	0.006	0.170
Mcoln3	ENSMUST00000039450	ens mucolipin 3 Gene [Source:MGI (curated);Acc:MGI:1890500] [ENSMUST00000039450]	0.93	0.006	0.161
A630052K13Rik	AK042023	gb Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630052K13 product: hypothetical protein, full insert sequence. [AK042023]	0.93	0.005	0.154
Mfap4	NM_029568	ref Mus musculus microfibrillar-associated protein 4 (Mfap4), mRNA [NM_029568]	0.93	0.004	0.130
Tfdp2	NM_178667	ref Mus musculus transcription factor Dp 2 (Tfdp2), transcript variant 1, mRNA [NM_178667]	0.92	0.028	0.349
Cfi	NM_007686	ref Mus musculus complement component factor i (Cfi), mRNA [NM_007686]	0.92	0.006	0.157
Srpx	NM_016911	ref Mus musculus sushi-repeat-containing protein (Srpx), mRNA [NM_016911]	0.92	0.002	0.090
Ranbp3l	NM_198024	ref Mus musculus RAN binding protein 3-like (Ranbp3l), mRNA [NM_198024]	0.91	0.032	0.374
chr17:10057283-10075014_F	chr17:10057283-10075014_F	lincRNA:chr17:10057283-10075014 forward strand	0.90	0.001	0.059
Kcne2	NM_134110	ref Mus musculus potassium voltage-gated channel, Isk-related subfamily, gene 2 (Kcne2), mRNA [NM_134110]	0.90	0.029	0.356
Gm3459	XM_001476778	ref PREDICTED: Mus musculus similar to pol protein (LOC100041663), mRNA [XM_001476778]	0.89	0.015	0.263
Hal	NM_010401	ref Mus musculus histidine ammonia lyase (Hal), mRNA [NM_010401]	0.89	0.000	0.013
Ms4a13	NM_198224	ref Mus musculus membrane-spanning 4-domains, subfamily A, member 13 (Ms4a13), mRNA [NM_198224]	0.89	0.030	0.363
chr7:49715933-49771497_F	chr7:49715933-49771497_F	lincRNA:chr7:49715933-49771497 forward strand	0.87	0.022	0.314
Chi3l1	NM_007695	ref Mus musculus chitinase 3-like 1 (Chi3l1), mRNA [NM_007695]	0.87	0.011	0.226
chrX:90997595-91009570_R	chrX:90997595-91009570_R	lincRNA:chrX:90997595-91009570 reverse strand	0.87	0.005	0.147
Olfr635	NM_147118	ref Mus musculus olfactory receptor 635 (Olfr635), mRNA [NM_147118]	0.86	0.015	0.263
Slc1a2	NM_011393	ref Mus musculus solute carrier family 1 (glial high affinity glutamate transporter), member 2 (Slc1a2), transcript variant 3, mRNA [NM_011393]	0.86	0.001	0.064
Saa2	NM_011314	ref Mus musculus serum amyloid A 2 (Saa2), mRNA [NM_011314]	0.86	0.023	0.321

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr3:88009045-88036270_F	chr3:88009045-88036270_F	lincRNA:chr3:88009045-88036270 forward strand	0.86	0.025	0.332
chr5:91480533-91502237_R	chr5:91480533-91502237_R	lincRNA:chr5:91480533-91502237 reverse strand	0.85	0.020	0.295
Ereg	NM_007950	ref Mus musculus epiregulin (Ereg), mRNA [NM_007950]	0.85	0.016	0.269
Mndal	NM_001170853	ref Mus musculus myeloid nuclear differentiation antigen like (Mndal), mRNA [NM_001170853]	0.85	0.003	0.106
Thbs2	NM_011581	ref Mus musculus thrombospondin 2 (Thbs2), mRNA [NM_011581]	0.85	0.004	0.128
ENSMUST00000120398	ENSMUST00000120398	gb Mus musculus adult retina cDNA, RIKEN full-length enriched library, clone:A930013N02 product:hypothetical protein, full insert sequence. [AK044447]	0.84	0.025	0.331
Slc4a10	NM_033552	ref Mus musculus solute carrier family 4, sodium bicarbonate cotransporter-like, member 10 (Slc4a10), mRNA [NM_033552]	0.84	0.025	0.331
Mfap5	NM_015776	ref Mus musculus microfibrillar associated protein 5 (Mfap5), mRNA [NM_015776]	0.84	0.001	0.072
S100a4	NM_011311	ref Mus musculus S100 calcium binding protein A4 (S100a4), mRNA [NM_011311]	0.84	0.001	0.065
Gm8122	XM_984060	ref PREDICTED: Mus musculus predicted gene, EG666471 (EG666471), mRNA [XM_984060]	0.84	0.017	0.278
Gm2410	XM_001473667	ref PREDICTED: Mus musculus hypothetical protein LOC100039761 (LOC100039761), mRNA [XM_001473667]	0.83	0.016	0.273
Gm7999	XM_982515	ref PREDICTED: Mus musculus predicted gene, EG666239 (EG666239), mRNA [XM_982515]	0.83	0.009	0.206
Sly	NM_201530	ref Mus musculus Sycp3 like Y-linked (Sly), mRNA [NM_201530]	0.83	0.001	0.070
ENSMUST00000063955	ENSMUST00000063955	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q8BR24] [ENSMUST00000063955]	0.82	0.000	0.045
Gadl1	NM_028638	ref Mus musculus glutamate decarboxylase-like 1 (Gadl1), mRNA [NM_028638]	0.82	0.050	0.457
Mnda	NM_001033450	ref Mus musculus myeloid cell nuclear differentiation antigen (Mnda), mRNA [NM_001033450]	0.81	0.012	0.232
Hspa1a	NM_010479	ref Mus musculus heat shock protein 1A (Hspa1a), mRNA [NM_010479]	0.80	0.003	0.117
chr2:48807211-48843911_F	chr2:48807211-48843911_F	lincRNA:chr2:48807211-48843911 forward strand	0.80	0.044	0.430
C3	NM_009778	ref Mus musculus complement component 3 (C3), mRNA [NM_009778]	0.79	0.004	0.133
Dync1i1	NM_010063	ref Mus musculus dynein cytoplasmic 1 intermediate chain 1 (Dync1i1), mRNA [NM_010063]	0.79	0.002	0.096
Il6	NM_031168	ref Mus musculus interleukin 6 (Il6), mRNA [NM_031168]	0.79	0.027	0.346
Dkk3	NM_015814	ref Mus musculus dickkopf homolog 3 (Xenopus laevis) (Dkk3), mRNA [NM_015814]	0.79	0.043	0.429
Cebpb	NM_009883	ref Mus musculus CCAAT/enhancer binding protein (C/EBP), beta (Cebpb), mRNA [NM_009883]	0.78	0.003	0.126
Cubn	NM_001081084	ref Mus musculus cubilin (intrinsic factor-cobalamin receptor) (Cubn), mRNA [NM_001081084]	0.78	0.006	0.166
chr15:32705156-32729116_R	chr15:32705156-32729116_R	lincRNA:chr15:32705156-32729116 reverse strand	0.77	0.012	0.232
6720482D04	AK032964	gb Mus musculus 12 days embryo male wolffian duct includes surrounding region cDNA, RIKEN full-length enriched library, clone:6720482D04 product:unclassifiable, full insert sequence. [AK032964]	0.77	0.028	0.349
Ncam1	NM_010875	ref Mus musculus neural cell adhesion molecule 1 (Ncam1), transcript variant 2, mRNA [NM_010875]	0.77	0.002	0.099

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Asns	NM_012055	ref Mus musculus asparagine synthetase (Asns), mRNA [NM_012055]	0.77	0.003	0.116
Dear1	NM_001040461	ref Mus musculus dual endothelin 1/angiotensin II receptor 1 homolog (rat) (Dear1), mRNA [NM_001040461]	0.77	0.029	0.355
Marco	NM_010766	ref Mus musculus macrophage receptor with collagenous structure (Marco), mRNA [NM_010766]	0.76	0.006	0.167
chr6:108556270-108573161_F	chr6:108556270-108573161_F	lincRNA:chr6:108556270-108573161 forward strand	0.76	0.035	0.391
chr12:86421771-86422222_F	chr12:86421771-86422222_F	lincRNA:chr12:86421771-86422222 forward strand	0.76	0.020	0.300
Mc2r	NM_008560	ref Mus musculus melanocortin 2 receptor (Mc2r), mRNA [NM_008560]	0.76	0.002	0.099
Ifi2712b	NM_145449	ref Mus musculus interferon, alpha-inducible protein 27 like 2B (Ifi2712b), mRNA [NM_145449]	0.76	0.048	0.449
Btg2	NM_007570	ref Mus musculus B-cell translocation gene 2, anti-proliferative (Btg2), mRNA [NM_007570]	0.75	0.001	0.073
Eno2	NM_013509	ref Mus musculus enolase 2, gamma neuronal (Eno2), mRNA [NM_013509]	0.75	0.000	0.015
Gclm	NM_008129	ref Mus musculus glutamate-cysteine ligase, modifier subunit (Gclm), mRNA [NM_008129]	0.75	0.050	0.457
Gm7315	XR_035512	ref PREDICTED: Mus musculus hypothetical LOC640963 (LOC640963), misc RNA [XR_035512]	0.75	0.041	0.418
D15Ertd50e	BG079244	gb H3037E07-5 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3037E07 5', mRNA sequence [BG079244]	0.75	0.029	0.354
Myl6b	NM_172259	ref Mus musculus myosin, light polypeptide 6B (Myl6b), mRNA [NM_172259]	0.74	0.047	0.446
chr15:32167516-32174417_R	chr15:32167516-32174417_R	lincRNA:chr15:32167516-32174417 reverse strand	0.74	0.004	0.133
Ppap2a	NM_008903	ref Mus musculus phosphatidic acid phosphatase type 2A (Ppap2a), transcript variant 2, mRNA [NM_008903]	0.74	0.017	0.278
Zfp36	NM_011756	ref Mus musculus zinc finger protein 36 (Zfp36), mRNA [NM_011756]	0.74	0.017	0.275
Cldn16	NM_053241	ref Mus musculus claudin 16 (Cldn16), mRNA [NM_053241]	0.74	0.010	0.208
Olf1255	NM_146977	ref Mus musculus olfactory receptor 1255 (Olf1255), mRNA [NM_146977]	0.74	0.035	0.388
Clec10a	NM_010796	ref Mus musculus C-type lectin domain family 10, member A (Clec10a), mRNA [NM_010796]	0.74	0.005	0.148
ENSMUST00000120588	ENSMUST00000120588	ens leucine rich repeat containing 18 Gene [Source:MGI (curated);Acc:MGI:1914830] [ENSMUST00000120588]	0.73	0.043	0.428
Txndc6	NM_001165957	ref Mus musculus thioredoxin domain containing 6 (Txndc6), mRNA [NM_001165957]	0.73	0.030	0.364
C5ar1	NM_001173550	ref Mus musculus complement component 5a receptor 1 (C5ar1), transcript variant 2, mRNA [NM_001173550]	0.73	0.001	0.074
Krt18	NM_010664	ref Mus musculus keratin 18 (Krt18), mRNA [NM_010664]	0.73	0.004	0.130
Fcna	NM_007995	ref Mus musculus ficolin A (Fcna), mRNA [NM_007995]	0.73	0.000	0.040
ENSMUST00000110541	ENSMUST00000110541	ens alanine-glyoxylate aminotransferase 2 Gene [Source:MGI (curated);Acc:MGI:2146052] [ENSMUST00000110541]	0.72	0.021	0.308
Vipr2	NM_009511	ref Mus musculus vasoactive intestinal peptide receptor 2 (Vipr2), mRNA [NM_009511]	0.72	0.000	0.021
chr13:51248372-51259297_R	chr13:51248372-51259297_R	lincRNA:chr13:51248372-51259297 reverse strand	0.72	0.012	0.238
Tdrd5	NM_001134741	ref Mus musculus tudor domain containing 5 (Tdrd5), mRNA [NM_001134741]	0.72	0.039	0.409
LOC100044430	XM_001472240	ref PREDICTED: Mus musculus similar to Interferon activated gene 205 (LOC100044430), mRNA [XM_001472240]	0.72	0.003	0.125

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Mpa2l	NM_194336	ref Mus musculus macrophage activation 2 like (Mpa2l), mRNA [NM_194336]	0.72	0.003	0.121
Hmga2-ps1	AK033703	gb Mus musculus adult male cecum cDNA, RIKEN full-length enriched library, clone:9130226K06 product:high mobility group AT-hook 2, pseudogene 1, full insert sequence. [AK033703]	0.71	0.001	0.052
Ccrl1	AY072938	gb Mus musculus chemokine receptor CCX CKR mRNA, complete cds, alternatively spliced. [AY072938]	0.71	0.001	0.068
Fam126b	NM_172513	ref Mus musculus family with sequence similarity 126, member B (Fam126b), mRNA [NM_172513]	0.71	0.040	0.415
Adams2	NM_175643	ref Mus musculus a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 2 (Adams2), mRNA [NM_175643]	0.71	0.009	0.205
Igf2bp2	NM_183029	ref Mus musculus insulin-like growth factor 2 mRNA binding protein 2 (Igf2bp2), mRNA [NM_183029]	0.71	0.005	0.152
Olf1484	NM_146291	ref Mus musculus olfactory receptor 1484 (Olf1484), mRNA [NM_146291]	0.71	0.016	0.269
chr4:46583780-46614788_R	chr4:46583780-46614788_R	lincRNA:chr4:46583780-46614788 reverse strand	0.71	0.031	0.367
Sgms1	NM_144792	ref Mus musculus sphingomyelin synthase 1 (Sgms1), transcript variant 2, mRNA [NM_144792]	0.71	0.002	0.094
Evi5	NM_007964	ref Mus musculus ecotropic viral integration site 5 (Evi5), mRNA [NM_007964]	0.70	0.015	0.260
Kcne4	NM_021342	ref Mus musculus potassium voltage-gated channel, Isk-related subfamily, gene 4 (Kcne4), mRNA [NM_021342]	0.70	0.000	0.040
Fgf6	NM_010204	ref Mus musculus fibroblast growth factor 6 (Fgf6), mRNA [NM_010204]	0.70	0.000	0.024
Serping1	NM_009776	ref Mus musculus serine (or cysteine) peptidase inhibitor, clade G, member 1 (Serping1), mRNA [NM_009776]	0.70	0.002	0.100
Fpr2	NM_008039	ref Mus musculus formyl peptide receptor 2 (Fpr2), mRNA [NM_008039]	0.70	0.006	0.161
Gpr56	NM_018882	ref Mus musculus G protein-coupled receptor 56 (Gpr56), mRNA [NM_018882]	0.70	0.002	0.099
1700037F03Rik	BB242157	gb BB242157 RIKEN full-length enriched, 3 days neonate thymus Mus musculus cDNA clone A630090K22 3'. [BB242157]	0.69	0.031	0.368
AA467197	NM_001004174	ref Mus musculus expressed sequence AA467197 (AA467197), mRNA [NM_001004174]	0.69	0.008	0.192
Olf919	NM_146440	ref Mus musculus olfactory receptor 919 (Olf919), mRNA [NM_146440]	0.69	0.036	0.393
Slc43a3	NM_021398	ref Mus musculus solute carrier family 43, member 3 (Slc43a3), mRNA [NM_021398]	0.69	0.002	0.097
Sult1a1	NM_133670	ref Mus musculus sulfotransferase family 1A, phenol-preferring, member 1 (Sult1a1), mRNA [NM_133670]	0.69	0.045	0.439
Aebp1	NM_009636	ref Mus musculus AE binding protein 1 (Aebp1), mRNA [NM_009636]	0.68	0.002	0.091
2210409D07Rik	XM_901620	ref PREDICTED: Mus musculus RIKEN cDNA 2210409D07 gene (2210409D07Rik), mRNA [XM_901620]	0.68	0.002	0.103
Olf733	NM_146663	ref Mus musculus olfactory receptor 733 (Olf733), mRNA [NM_146663]	0.68	0.016	0.273
Dpysl3	NM_001136086	ref Mus musculus dihydropyrimidinase-like 3 (Dpysl3), transcript variant 1, mRNA [NM_001136086]	0.68	0.011	0.217
Gm2301	XM_001473078	ref PREDICTED: Mus musculus hypothetical protein LOC100039542 (LOC100039542), mRNA [XM_001473078]	0.68	0.026	0.338
chr19:23068397-23190256_F	chr19:23068397-23190256_F	lincRNA:chr19:23068397-23190256 forward strand	0.68	0.049	0.456
Inpp4b	NM_001024617	ref Mus musculus inositol polyphosphate-4-phosphatase, type II (Inpp4b), mRNA [NM_001024617]	0.67	0.000	0.010

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Ogg1	NM_010957	ref Mus musculus 8-oxoguanine DNA-glycosylase 1 (Ogg1), nuclear gene encoding mitochondrial protein, mRNA [NM_010957]	0.67	0.025	0.331
chr7:48794017-48815817_R	chr7:48794017-48815817_R	lincRNA:chr7:48794017-48815817 reverse strand	0.67	0.036	0.395
Gm7616	NM_001101600	ref Mus musculus predicted gene 7616 (Gm7616), mRNA [NM_001101600]	0.66	0.032	0.372
ENSMUST00000109958	ENSMUST00000109958	ref PREDICTED: Mus musculus predicted gene, EG628900 (EG628900), mRNA [XM_893705]	0.66	0.017	0.278
chr4:59093718-59108018_R	chr4:59093718-59108018_R	lincRNA:chr4:59093718-59108018 reverse strand	0.66	0.035	0.388
Lhx6	NM_008500	ref Mus musculus LIM homeobox protein 6 (Lhx6), transcript variant 1, mRNA [NM_008500]	0.66	0.030	0.360
Egfr	NM_007912	ref Mus musculus epidermal growth factor receptor (Egfr), transcript variant 2, mRNA [NM_007912]	0.65	0.000	0.034
Gm7897	XM_988496	ref PREDICTED: Mus musculus predicted gene, EG666028 (EG666028), mRNA [XM_988496]	0.65	0.012	0.231
chr16:40283097-40284822_F	chr16:40283097-40284822_F	lincRNA:chr16:40283097-40284822 forward strand	0.65	0.008	0.192
Serpina3g	NM_009251	ref Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 3G (Serpina3g), mRNA [NM_009251]	0.65	0.011	0.223
Inhbb	NM_008381	ref Mus musculus inhibin beta-B (Inhbb), mRNA [NM_008381]	0.65	0.001	0.053
Cdc42ep1	NM_027219	ref Mus musculus CDC42 effector protein (Rho GTPase binding) 1 (Cdc42ep1), mRNA [NM_027219]	0.65	0.035	0.389
Clec4e	NM_019948	ref Mus musculus C-type lectin domain family 4, member e (Clec4e), mRNA [NM_019948]	0.65	0.017	0.277
Abcb11	NM_021022	ref Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 11 (Abcb11), mRNA [NM_021022]	0.65	0.031	0.369
2610028H24Rik	NM_029816	ref Mus musculus RIKEN cDNA 2610028H24 gene (2610028H24Rik), mRNA [NM_029816]	0.65	0.033	0.379
Svep1	NM_022814	ref Mus musculus sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1 (Svep1), mRNA [NM_022814]	0.65	0.007	0.179
Lect1	NM_010701	ref Mus musculus leukocyte cell derived chemotaxin 1 (Lect1), mRNA [NM_010701]	0.65	0.013	0.240
Mtap1a	NM_032393	ref Mus musculus microtubule-associated protein 1 A (Mtap1a), transcript variant 1, mRNA [NM_032393]	0.65	0.002	0.093
Igf1	NM_010512	ref Mus musculus insulin-like growth factor 1 (Igf1), transcript variant 1, mRNA [NM_010512]	0.65	0.001	0.068
Olf1137	NM_001011833	ref Mus musculus olfactory receptor 1137 (Olf1137), mRNA [NM_001011833]	0.65	0.025	0.330
Dpep1	NM_007876	ref Mus musculus dipeptidase 1 (renal) (Dpep1), mRNA [NM_007876]	0.65	0.010	0.209
Dync1i1	NM_010063	ref Mus musculus dynein cytoplasmic 1 intermediate chain 1 (Dync1i1), mRNA [NM_010063]	0.64	0.002	0.102
Rhobtb1	NM_001081347	ref Mus musculus Rho-related BTB domain containing 1 (Rhobtb1), mRNA [NM_001081347]	0.64	0.012	0.238
Gm6890	NM_001099306	ref Mus musculus predicted gene 6890 (Gm6890), mRNA [NM_001099306]	0.64	0.048	0.449
chr8:71495043-71525582_R	chr8:71495043-71525582_R	lincRNA:chr8:71495043-71525582 reverse strand	0.64	0.016	0.272
Gm3600	XM_001477308	ref PREDICTED: Mus musculus similar to polyQ-containing protein CAG-8 (LOC100041974), mRNA [XM_001477308]	0.64	0.034	0.382
chr10:83181374-83249774_F	chr10:83181374-83249774_F	lincRNA:chr10:83181374-83249774 forward strand	0.64	0.000	0.046
ENSMUST00000077710	ENSMUST00000077710	ens predicted gene 6756 Gene [Source:MGI Symbol;Acc:MGI:3647509] [ENSMUST00000077710]	0.64	0.003	0.113

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
March1	NM_175188	ref Mus musculus membrane-associated ring finger (C3HC4) 1 (March1), transcript variant 3, mRNA [NM_175188]	0.64	0.001	0.059
Chac1	NM_026929	ref Mus musculus ChaC, cation transport regulator-like 1 (E. coli) (Chac1), mRNA [NM_026929]	0.64	0.013	0.243
ENSMUST00000023090	ENSMUST00000023090	ens NEL-like 2 (chicken) Gene [Source:MGI Symbol;Acc:MGI:1858510] [ENSMUST00000023090]	0.64	0.018	0.282
Fcgr3	NM_010188	ref Mus musculus Fc receptor, IgG, low affinity III (Fcgr3), mRNA [NM_010188]	0.63	0.005	0.154
chr5:92548501-92566401_R	chr5:92548501-92566401_R	lincRNA:chr5:92548501-92566401 reverse strand	0.63	0.009	0.202
Rnmt	NM_026440	ref Mus musculus RNA (guanine-7-) methyltransferase (Rnmt), transcript variant 1, mRNA [NM_026440]	0.63	0.016	0.268
Slc3a2	NM_008577	ref Mus musculus solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2 (Slc3a2), transcript variant 2, mRNA [NM_008577]	0.63	0.000	0.027
Ccdc80	NM_026439	ref Mus musculus coiled-coil domain containing 80 (Ccdc80), mRNA [NM_026439]	0.63	0.001	0.069
chr1:175653557-175671940_R	chr1:175653557-175671940_R	lincRNA:chr1:175653557-175671940 reverse strand	0.63	0.001	0.051
Tmem144	NM_027495	ref Mus musculus transmembrane protein 144 (Tmem144), mRNA [NM_027495]	0.63	0.002	0.094
Lbp	NM_008489	ref Mus musculus lipopolysaccharide binding protein (Lbp), mRNA [NM_008489]	0.63	0.005	0.146
Panx1	NM_019482	ref Mus musculus pannexin 1 (Panx1), mRNA [NM_019482]	0.63	0.027	0.344
chr5:53931541-53945241_R	chr5:53931541-53945241_R	lincRNA:chr5:53931541-53945241 reverse strand	0.63	0.003	0.123
chr18:61781410-61788685_R	chr18:61781410-61788685_R	lincRNA:chr18:61781410-61788685 reverse strand	0.62	0.014	0.258
Lhx6	NM_008500	ref Mus musculus LIM homeobox protein 6 (Lhx6), transcript variant 1, mRNA [NM_008500]	0.62	0.004	0.138
chr19:56815544-56821403_R	chr19:56815544-56821403_R	lincRNA:chr19:56815544-56821403 reverse strand	0.62	0.001	0.054
Nox4	NM_015760	ref Mus musculus NADPH oxidase 4 (Nox4), mRNA [NM_015760]	0.62	0.000	0.038
Wdfy1	NM_027057	ref Mus musculus WD repeat and FYVE domain containing 1 (Wdfy1), transcript variant 2, mRNA [NM_027057]	0.62	0.007	0.179
Cyp2e1	NM_021282	ref Mus musculus cytochrome P450, family 2, subfamily e, polypeptide 1 (Cyp2e1), mRNA [NM_021282]	0.62	0.020	0.295
Csf2rb2	NM_007781	ref Mus musculus colony stimulating factor 2 receptor, beta 2, low-affinity (granulocyte-macrophage) (Csf2rb2), mRNA [NM_007781]	0.62	0.019	0.287
Dleu7	NM_173419	ref Mus musculus deleted in lymphocytic leukemia, 7 (Dleu7), mRNA [NM_173419]	0.62	0.020	0.302
ENSMUST00000069941	ENSMUST00000069941	ens butyrophilin related 1 Gene [Source:MGI (curated);Acc:MGI:2182073] [ENSMUST00000069941]	0.62	0.007	0.179
Mcf2l	NM_178076	ref Mus musculus mcf.2 transforming sequence-like (Mcf2l), transcript variant 1, mRNA [NM_178076]	0.62	0.010	0.210
chr5:92562352-92562839_F	chr5:92562352-92562839_F	lincRNA:chr5:92562352-92562839 forward strand	0.61	0.031	0.370
chr10:83185606-83225506_F	chr10:83185606-83225506_F	lincRNA:chr10:83185606-83225506 forward strand	0.61	0.001	0.051
chr1:175653557-175671940_R	chr1:175653557-175671940_R	lincRNA:chr1:175653557-175671940 reverse strand	0.61	0.002	0.085
chr9:48889364-48910736_F	chr9:48889364-48910736_F	lincRNA:chr9:48889364-48910736 forward strand	0.61	0.005	0.151

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Clec4n	NM_020001	ref Mus musculus C-type lectin domain family 4, member n (Clec4n), transcript variant 1, mRNA [NM_020001]	0.61	0.011	0.226
Olf446	NM_146295	ref Mus musculus olfactory receptor 446 (Olf446), mRNA [NM_146295]	0.61	0.004	0.128
Serp6b	NM_011454	ref Mus musculus serine (or cysteine) peptidase inhibitor, clade B, member 6b (Serp6b), mRNA [NM_011454]	0.61	0.012	0.234
Itih4	NM_018746	ref Mus musculus inter alpha-trypsin inhibitor, heavy chain 4 (Itih4), transcript variant 1, mRNA [NM_018746]	0.61	0.001	0.046
Mmp14	NM_008608	ref Mus musculus matrix metalloproteinase 14 (membrane-inserted) (Mmp14), mRNA [NM_008608]	0.61	0.000	0.019
Ankrd2	NM_020033	ref Mus musculus ankyrin repeat domain 2 (stretch responsive muscle) (Ankrd2), mRNA [NM_020033]	0.61	0.018	0.285
Btnl6	NM_030747	ref Mus musculus butyrophilin-like 6 (Btnl6), mRNA [NM_030747]	0.61	0.008	0.183
Sucnr1	NM_032400	ref Mus musculus succinate receptor 1 (Sucnr1), mRNA [NM_032400]	0.61	0.016	0.267
B020004C17Rik	XM_484380	ref PREDICTED: Mus musculus RIKEN cDNA B020004C17 gene (B020004C17Rik), mRNA [XM_484380]	0.61	0.020	0.298
Gm8341	XR_001935	ref PREDICTED: Mus musculus predicted gene, EG666875 (EG666875), misc RNA [XR_001935]	0.61	0.010	0.208
4933421H12Rik	AK016863	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933421H12 product:unclassifiable, full insert sequence. [AK016863]	0.60	0.033	0.380
A1480624	AK089254	gb Mus musculus NOD-derived CD11c +ve dendritic cells cDNA, RIKEN full-length enriched library, clone:F630105N03 product:unclassifiable, full insert sequence. [AK089254]	0.60	0.006	0.167
Mgp	NM_008597	ref Mus musculus matrix Gla protein (Mgp), mRNA [NM_008597]	0.60	0.001	0.061
Klrc3	NM_021378	ref Mus musculus killer cell lectin-like receptor subfamily C, member 3 (Klrc3), mRNA [NM_021378]	0.60	0.005	0.156
Igf1	NM_010512	ref Mus musculus insulin-like growth factor 1 (Igf1), transcript variant 1, mRNA [NM_010512]	0.60	0.002	0.096
Nov	NM_010930	ref Mus musculus nephroblastoma overexpressed gene (Nov), mRNA [NM_010930]	0.60	0.017	0.278
chr19:5798135-5800557_R	chr19:5798135-5800557_R	lincRNA:chr19:5798135-5800557 reverse strand	0.60	0.004	0.135
Chpt1	ENSMUST00000117440	ens choline phosphotransferase 1 Gene [Source:MGI (curated);Acc:MGI:2384841] [ENSMUST00000117440]	0.60	0.003	0.117
Rassf4	NM_178045	ref Mus musculus Ras association (RalGDS/AF-6) domain family member 4 (Rassf4), mRNA [NM_178045]	0.60	0.002	0.096
Acp5	NM_001102405	ref Mus musculus acid phosphatase 5, tartrate resistant (Acp5), transcript variant 1, mRNA [NM_001102405]	0.60	0.007	0.179
chr19:5798135-5800557_R	chr19:5798135-5800557_R	lincRNA:chr19:5798135-5800557 reverse strand	0.60	0.003	0.113
Rasgef1a	NM_027526	ref Mus musculus RasGEF domain family, member 1A (Rasgef1a), mRNA [NM_027526]	0.60	0.005	0.147
Rp1	NM_011283	ref Mus musculus retinitis pigmentosa 1 (human) (Rp1), mRNA [NM_011283]	0.60	0.025	0.331
2410006H16Rik	NR_030738	ref Mus musculus RIKEN cDNA 2410006H16 gene (2410006H16Rik), non-coding RNA [NR_030738]	0.60	0.013	0.241
chr7:48794017-48815817_R	chr7:48794017-48815817_R	lincRNA:chr7:48794017-48815817 reverse strand	0.59	0.049	0.456
Plekha4	NM_148927	ref Mus musculus pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 4 (Plekha4), mRNA [NM_148927]	0.59	0.007	0.180
Gem	NM_010276	ref Mus musculus GTP binding protein (gene overexpressed in skeletal muscle) (Gem), mRNA [NM_010276]	0.59	0.034	0.385

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Gm6221	XM_885786	ref PREDICTED: Mus musculus predicted gene, EG621380 (EG621380), mRNA [XM_885786]	0.59	0.026	0.340
Gm5127	NM_001033541	ref Mus musculus predicted gene 5127 (Gm5127), mRNA [NM_001033541]	0.59	0.040	0.417
chr3:51804655-51805883_R	chr3:51804655-51805883_R	lincRNA:chr3:51804655-51805883 reverse strand	0.59	0.036	0.393
N4bp2l1	NM_133898	ref Mus musculus NEDD4 binding protein 2-like 1 (N4bp2l1), mRNA [NM_133898]	0.59	0.018	0.282
Rufy4	NM_001034060	ref Mus musculus RUN and FYVE domain containing 4 (Rufy4), transcript variant 2, mRNA [NM_001034060]	0.59	0.017	0.279
BC026782	NM_001025575	ref Mus musculus cDNA sequence BC026782 (BC026782), mRNA [NM_001025575]	0.59	0.003	0.106
Slc25a34	NM_001013780	ref Mus musculus solute carrier family 25, member 34 (Slc25a34), mRNA [NM_001013780]	0.59	0.000	0.029
chr7:71222899-71230614_R	chr7:71222899-71230614_R	lincRNA:chr7:71222899-71230614 reverse strand	0.58	0.049	0.456
chr18:35970772-35971449_F	chr18:35970772-35971449_F	lincRNA:chr18:35970772-35971449 forward strand	0.58	0.019	0.293
Tfdp2	NM_178667	ref Mus musculus transcription factor Dp 2 (Tfdp2), transcript variant 1, mRNA [NM_178667]	0.58	0.015	0.263
chr1:98768971-98780921_R	chr1:98768971-98780921_R	lincRNA:chr1:98768971-98780921 reverse strand	0.58	0.024	0.323
Gm9210	XR_035004	ref PREDICTED: Mus musculus similar to 3-phosphoglycerate dehydrogenase (LOC668506), misc RNA [XR_035004]	0.58	0.006	0.157
C030007I01Rik	CX236116	gb NMA08932 Mus Musculus Lateral Ventricle Wall C57BL [CX236116]	0.58	0.006	0.168
Fam71f1	NM_207258	ref Mus musculus family with sequence similarity 71, member F1 (Fam71f1), mRNA [NM_207258]	0.58	0.038	0.405
ENSMUST00000103421	ENSMUST00000103421	ens immunoglobulin heavy constant gamma 1 (G1m marker) Gene [Source:MGI Symbol;Acc:MGI:96446] [ENSMUST00000103421]	0.58	0.039	0.412
chr8:59966759-59989059_R	chr8:59966759-59989059_R	lincRNA:chr8:59966759-59989059 reverse strand	0.58	0.031	0.367
Upp1	NM_009477	ref Mus musculus uridine phosphorylase 1 (Upp1), transcript variant 1, mRNA [NM_009477]	0.58	0.001	0.076
Ms4a6c	NM_028595	ref Mus musculus membrane-spanning 4-domains, subfamily A, member 6C (Ms4a6c), transcript variant 1, mRNA [NM_028595]	0.58	0.008	0.193
Adamts4	NM_172845	ref Mus musculus a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 4 (Adamts4), mRNA [NM_172845]	0.58	0.012	0.230
Gm2090	XM_001472368	ref PREDICTED: Mus musculus hypothetical protein LOC100039191 (LOC100039191), mRNA [XM_001472368]	0.57	0.006	0.161
chr8:87513394-87514107_R	chr8:87513394-87514107_R	lincRNA:chr8:87513394-87514107 reverse strand	0.57	0.013	0.241
Sfrp1	NM_013834	ref Mus musculus secreted frizzled-related protein 1 (Sfrp1), mRNA [NM_013834]	0.57	0.043	0.427
chr19:29546348-29596479_R	chr19:29546348-29596479_R	lincRNA:chr19:29546348-29596479 reverse strand	0.57	0.036	0.395
chr4:149445201-149445902_F	chr4:149445201-149445902_F	lincRNA:chr4:149445201-149445902 forward strand	0.57	0.008	0.183
Fam117b	NM_001037725	ref Mus musculus family with sequence similarity 117, member B (Fam117b), transcript variant 1, mRNA [NM_001037725]	0.57	0.010	0.216
chr13:28898970-28901714_R	chr13:28898970-28901714_R	lincRNA:chr13:28898970-28901714 reverse strand	0.57	0.038	0.402

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
Sox2	NM_011443	ref Mus musculus SRY-box containing gene 2 (Sox2), mRNA [NM_011443]	0.57	0.019	0.291
Gm7160	XM_921685	ref PREDICTED: Mus musculus predicted gene, EG635504 (EG635504), mRNA [XM_921685]	0.57	0.001	0.071
chr13:3477100-3497843_R	chr13:3477100-3497843_R	lincRNA:chr13:3477100-3497843 reverse strand	0.57	0.007	0.182
Slc45a3	NM_145977	ref Mus musculus solute carrier family 45, member 3 (Slc45a3), mRNA [NM_145977]	0.57	0.023	0.317
Adamtsl2	NM_029981	ref Mus musculus ADAMTS-like 2 (Adamtsl2), mRNA [NM_029981]	0.57	0.002	0.099
LOC100048578	XM_001480568	ref PREDICTED: Mus musculus hypothetical protein LOC100048578 (LOC100048578), mRNA [XM_001480568]	0.57	0.041	0.418
ENSMUST00000034373	ENSMUST00000034373	ens dipeptidase 2 Gene [Source:MGI (curated);Acc:MGI:2442042] [ENSMUST00000034373]	0.57	0.000	0.023
2810449D17Rik	BY705366	gb BY705366 RIKEN full-length enriched, adult male cerebellum Mus musculus cDNA clone 1500008C05 5'. [BY705366]	0.56	0.003	0.118
Trib3	NM_175093	ref Mus musculus tribbles homolog 3 (Drosophila) (Trib3), mRNA [NM_175093]	0.56	0.001	0.063
chr11:60728207-60745369_R	chr11:60728207-60745369_R	lincRNA:chr11:60728207-60745369 reverse strand	0.56	0.006	0.161
1500009L16Rik	NM_001145198	ref Mus musculus RIKEN cDNA 1500009L16 gene (1500009L16Rik), mRNA [NM_001145198]	0.56	0.005	0.151
chr16:64758224-64765674_F	chr16:64758224-64765674_F	lincRNA:chr16:64758224-64765674 forward strand	0.56	0.026	0.336
Fermt1	NM_198029	ref Mus musculus fermitin family homolog 1 (Drosophila) (Fermt1), mRNA [NM_198029]	0.56	0.033	0.379
1010001N08Rik	XM_001473782	ref PREDICTED: Mus musculus RIKEN cDNA 1010001N08 gene (1010001N08Rik), mRNA [XM_001473782]	0.56	0.042	0.423
Vmn2r-ps134	XM_884146	ref PREDICTED: Mus musculus predicted gene, EG619775 (EG619775), mRNA [XM_884146]	0.56	0.014	0.252
Edn3	NM_007903	ref Mus musculus endothelin 3 (Edn3), mRNA [NM_007903]	0.56	0.002	0.088
Gm3120	XM_001475673	ref PREDICTED: Mus musculus hypothetical protein LOC100041064 (LOC100041064), mRNA [XM_001475673]	0.56	0.017	0.278
Tmem195	NM_178767	ref Mus musculus transmembrane protein 195 (Tmem195), mRNA [NM_178767]	0.56	0.003	0.106
chr3:95502970-95503399_R	chr3:95502970-95503399_R	lincRNA:chr3:95502970-95503399 reverse strand	0.56	0.035	0.387
Hexim2	NM_027658	ref Mus musculus hexamethylene bis-acetamide inducible 2 (Hexim2), transcript variant 1, mRNA [NM_027658]	0.56	0.000	0.030
Fcgr2b	NM_001077189	ref Mus musculus Fc receptor, IgG, low affinity IIb (Fcgr2b), transcript variant 1, mRNA [NM_001077189]	0.56	0.019	0.291
4933431K23Rik	AK135599	gb Mus musculus 1 day pregnant adult female ovary cDNA, RIKEN full-length enriched library, clone:7230402M02 product:unclassifiable, full insert sequence. [AK135599]	0.56	0.018	0.283
chrX:20570399-20571162_F	chrX:20570399-20571162_F	lincRNA:chrX:20570399-20571162 forward strand	0.56	0.004	0.130
Ncam1	NM_010875	ref Mus musculus neural cell adhesion molecule 1 (Ncam1), transcript variant 2, mRNA [NM_010875]	0.56	0.018	0.283
Fbln2	NM_007992	ref Mus musculus fibulin 2 (Fbln2), transcript variant 1, mRNA [NM_007992]	0.56	0.002	0.096
Nupr1	NM_019738	ref Mus musculus nuclear protein 1 (Nupr1), mRNA [NM_019738]	0.55	0.001	0.066
Gm6117	XM_895552	ref PREDICTED: Mus musculus predicted gene, EG619959 (EG619959), mRNA [XM_895552]	0.55	0.027	0.348

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr15:33983510-33985015_F	chr15:33983510-33985015_F	lincRNA:chr15:33983510-33985015 forward strand	0.55	0.010	0.216
Rnase4	NM_021472	ref Mus musculus ribonuclease, RNase A family 4 (Rnase4), transcript variant 1, mRNA [NM_021472]	0.55	0.002	0.086
Trpv2	NM_011706	ref Mus musculus transient receptor potential cation channel, subfamily V, member 2 (Trpv2), mRNA [NM_011706]	0.55	0.001	0.051
Plp2	NM_019755	ref Mus musculus proteolipid protein 2 (Plp2), mRNA [NM_019755]	0.55	0.001	0.059
chr19:56815544-56821403_R	chr19:56815544-56821403_R	lincRNA:chr19:56815544-56821403 reverse strand	0.55	0.009	0.205
5330437I02Rik	NM_177028	ref Mus musculus RIKEN cDNA 5330437I02 gene (5330437I02Rik), mRNA [NM_177028]	0.55	0.038	0.405
Dusp14	NM_019819	ref Mus musculus dual specificity phosphatase 14 (Dusp14), mRNA [NM_019819]	0.55	0.031	0.370
AA517023	BX527063	gb BX527063 Knowles Solter mouse E6 5d whole embryo Mus musculus cDNA clone IMAGp998O122217 ; IMAGE:893795, mRNA sequence [BX527063]	0.55	0.016	0.273
Speer5-ps1	NR_001582	ref Mus musculus spermatogenesis associated glutamate (E)-rich protein 5, pseudogene 1 (Speer5-ps1), transcript variant 1, non-coding RNA [NR_001582]	0.55	0.014	0.251
Htr2c	NM_008312	ref Mus musculus 5-hydroxytryptamine (serotonin) receptor 2C (Htr2c), mRNA [NM_008312]	0.55	0.018	0.281
S1pr1	NM_007901	ref Mus musculus sphingosine-1-phosphate receptor 1 (S1pr1), mRNA [NM_007901]	0.55	0.012	0.235
Acbd7	NM_030063	ref Mus musculus acyl-Coenzyme A binding domain containing 7 (Acbd7), mRNA [NM_030063]	0.55	0.004	0.135
Fam102b	NM_001163567	ref Mus musculus family with sequence similarity 102, member B (Fam102b), mRNA [NM_001163567]	0.54	0.004	0.130
Kiss1	NM_178260	ref Mus musculus KiSS-1 metastasis-suppressor (Kiss1), mRNA [NM_178260]	0.54	0.004	0.141
Lipi	NM_177142	ref Mus musculus lipase, member I (Lipi), mRNA [NM_177142]	0.54	0.002	0.085
chr13:5506700-5519000_F	chr13:5506700-5519000_F	lincRNA:chr13:5506700-5519000 forward strand	0.54	0.028	0.352
chr12:20996314-21091646_F	chr12:20996314-21091646_F	lincRNA:chr12:20996314-21091646 forward strand	0.54	0.008	0.191
chr5:122993227-122993868_R	chr5:122993227-122993868_R	lincRNA:chr5:122993227-122993868 reverse strand	0.54	0.029	0.359
chr12:76744947-76778372_R	chr12:76744947-76778372_R	lincRNA:chr12:76744947-76778372 reverse strand	0.54	0.010	0.216
Fam154a	NM_001081096	ref Mus musculus family with sequence similarity 154, member A (Fam154a), mRNA [NM_001081096]	0.54	0.032	0.374
Slc4a8	NM_021530	ref Mus musculus solute carrier family 4 (anion exchanger), member 8 (Slc4a8), mRNA [NM_021530]	0.54	0.016	0.267
Lyz1	NM_013590	ref Mus musculus lysozyme 1 (Lyz1), mRNA [NM_013590]	0.54	0.024	0.329
chr3:40439525-40509975_R	chr3:40439525-40509975_R	lincRNA:chr3:40439525-40509975 reverse strand	0.54	0.006	0.157
chr9:88333945-88342370_F	chr9:88333945-88342370_F	lincRNA:chr9:88333945-88342370 forward strand	0.54	0.012	0.236
Rspo2	NM_172815	ref Mus musculus R-spondin 2 homolog (Xenopus laevis) (Rspo2), mRNA [NM_172815]	0.54	0.005	0.150
Cd200r1	NM_021325	ref Mus musculus CD200 receptor 1 (Cd200r1), mRNA [NM_021325]	0.54	0.011	0.223
chr4:15233302-15233632_R	chr4:15233302-15233632_R	lincRNA:chr4:15233302-15233632 reverse strand	0.54	0.016	0.273
Fgf6	ENSMUST00000000187	ens fibroblast growth factor 6 Gene [Source:MGI Symbol;Acc:MGI:95520] [ENSMUST00000000187]	0.54	0.001	0.066

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Arhgap27	NM_133715	ref Mus musculus Rho GTPase activating protein 27 (Arhgap27), transcript variant 1, mRNA [NM_133715]	0.54	0.003	0.117
Cyp2e1	NM_021282	ref Mus musculus cytochrome P450, family 2, subfamily e, polypeptide 1 (Cyp2e1), mRNA [NM_021282]	0.54	0.021	0.302
chr19:6268793-6276607_R	chr19:6268793-6276607_R	lincRNA:chr19:6268793-6276607 reverse strand	0.54	0.041	0.422
chr7:134603123-134614510_F	chr7:134603123-134614510_F	lincRNA:chr7:134603123-134614510 forward strand	0.53	0.034	0.385
Tppp3	NM_026481	ref Mus musculus tubulin polymerization-promoting protein family member 3 (Tppp3), mRNA [NM_026481]	0.53	0.042	0.422
Trpv4	NM_022017	ref Mus musculus transient receptor potential cation channel, subfamily V, member 4 (Trpv4), mRNA [NM_022017]	0.53	0.003	0.115
chr16:45016828-45069177_F	chr16:45016828-45069177_F	lincRNA:chr16:45016828-45069177 forward strand	0.53	0.016	0.274
chr10:83185606-83225506_F	chr10:83185606-83225506_F	lincRNA:chr10:83185606-83225506 forward strand	0.53	0.004	0.136
chr2:126501651-126510026_F	chr2:126501651-126510026_F	lincRNA:chr2:126501651-126510026 forward strand	0.53	0.029	0.357
LOC630896	XR_030502	ref PREDICTED: Mus musculus similar to 3-phosphoglycerate dehydrogenase (LOC630896), misc RNA [XR_030502]	0.53	0.020	0.300
AI607873	XM_001479984	ref PREDICTED: Mus musculus expressed sequence AI607873 (AI607873), mRNA [XM_001479984]	0.53	0.006	0.165
chr5:88995039-89009064_F	chr5:88995039-89009064_F	lincRNA:chr5:88995039-89009064 forward strand	0.53	0.017	0.279
chr17:8088950-8106700_F	chr17:8088950-8106700_F	lincRNA:chr17:8088950-8106700 forward strand	0.53	0.021	0.304
Adams2	NM_175643	ref Mus musculus a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 2 (Adams2), mRNA [NM_175643]	0.53	0.001	0.066
chr1:74084292-74138492_F	chr1:74084292-74138492_F	lincRNA:chr1:74084292-74138492 forward strand	0.53	0.031	0.370
Myliip	NM_153789	ref Mus musculus myosin regulatory light chain interacting protein (Myliip), transcript variant 1, mRNA [NM_153789]	0.53	0.030	0.362
Anxa8	NM_013473	ref Mus musculus annexin A8 (Anxa8), mRNA [NM_013473]	0.53	0.013	0.247
Akap2	NM_001035533	ref Mus musculus A kinase (PRKA) anchor protein 2 (Akap2), transcript variant 1, mRNA [NM_001035533]	0.53	0.002	0.099
Whsc1l1	NM_001001735	ref Mus musculus Wolf-Hirschhorn syndrome candidate 1-like 1 (human) (Whsc1l1), transcript variant 1, mRNA [NM_001001735]	0.53	0.013	0.241
chr10:120336296-120354471_R	chr10:120336296-120354471_R	lincRNA:chr10:120336296-120354471 reverse strand	0.53	0.029	0.358
chrX:12443510-12444165_F	chrX:12443510-12444165_F	lincRNA:chrX:12443510-12444165 forward strand	0.53	0.027	0.347
Oplah	NM_153122	ref Mus musculus 5-oxoprolinase (ATP-hydrolysing) (Oplah), mRNA [NM_153122]	0.53	0.023	0.321
Gem	NM_010276	ref Mus musculus GTP binding protein (gene overexpressed in skeletal muscle) (Gem), mRNA [NM_010276]	0.53	0.045	0.439
Krt222	NM_172946	ref Mus musculus keratin 222 (Krt222), mRNA [NM_172946]	0.53	0.004	0.133
ENSMUST00000111314	ENSMUST00000111314	ens a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 4 Gene [Source:MGI (curated);Acc:MGI:1339949] [ENSMUST00000111314]	0.52	0.013	0.246

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
LOC100045667	XM_001474717	ref PREDICTED: Mus musculus similar to Dopachrome tautomerase (LOC100045667), mRNA [XM_001474717]	0.52	0.040	0.415
Rcan1	NM_019466	ref Mus musculus regulator of calcineurin 1 (Rcan1), transcript variant 2, mRNA [NM_019466]	0.52	0.002	0.085
chr17:87674225-87682154_F	chr17:87674225-87682154_F	lincRNA:chr17:87674225-87682154 forward strand	0.52	0.022	0.314
Oprm1	NM_001039652	ref Mus musculus opioid receptor, mu 1 (Oprm1), mRNA [NM_001039652]	0.52	0.005	0.145
Frem1	NM_177863	ref Mus musculus Fras1 related extracellular matrix protein 1 (Frem1), mRNA [NM_177863]	0.52	0.031	0.370
Evpl	NM_025276	ref Mus musculus envoplakin (Evpl), mRNA [NM_025276]	0.52	0.000	0.037
Kalrn	NM_001164268	ref Mus musculus kalirin, RhoGEF kinase (Kalrn), transcript variant 2, mRNA [NM_001164268]	0.52	0.041	0.421
Ecm1	NM_007899	ref Mus musculus extracellular matrix protein 1 (Ecm1), mRNA [NM_007899]	0.52	0.003	0.109
chr19:5771425-5848475_R	chr19:5771425-5848475_R	lincRNA:chr19:5771425-5848475 reverse strand	0.52	0.008	0.190
Gprc5b	NM_022420	ref Mus musculus G protein-coupled receptor, family C, group 5, member B (Gprc5b), mRNA [NM_022420]	0.52	0.002	0.100
Smarca1	NM_053123	ref Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1 (Smarca1), mRNA [NM_053123]	0.52	0.028	0.353
Serpina3f	NM_001168294	ref Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 3F (Serpina3f), transcript variant 1, mRNA [NM_001168294]	0.52	0.008	0.191
Fam19a1	NM_182808	ref Mus musculus family with sequence similarity 19, member A1 (Fam19a1), mRNA [NM_182808]	0.52	0.021	0.303
Pdcd4	NM_011050	ref Mus musculus programmed cell death 4 (Pdcd4), transcript variant 1, mRNA [NM_011050]	0.52	0.004	0.131
Gstm3	NM_010359	ref Mus musculus glutathione S-transferase, mu 3 (Gstm3), mRNA [NM_010359]	0.52	0.022	0.316
Gm3901	XM_001477028	ref PREDICTED: Mus musculus hypothetical protein LOC100046896 (LOC100046896), mRNA [XM_001477028]	0.52	0.033	0.380
E330020D12Rik	NR_033736	ref Mus musculus Riken cDNA E330020D12 gene (E330020D12Rik), non-coding RNA [NR_033736]	0.52	0.025	0.332
Ocln	NM_008756	ref Mus musculus occludin (Ocln), mRNA [NM_008756]	0.52	0.011	0.227
ENSMUST00000050395	ENSMUST00000050395	ens RIKEN cDNA 1700040F17 gene Gene [Source:MGI Symbol;Acc:MGI:1920584] [ENSMUST00000050395]	0.52	0.005	0.147
chr10:83181374-83249774_F	chr10:83181374-83249774_F	lincRNA:chr10:83181374-83249774 forward strand	0.52	0.007	0.182
Jdp2	NM_030887	ref Mus musculus Jun dimerization protein 2 (Jdp2), mRNA [NM_030887]	0.52	0.005	0.154
Gm7669	XR_031967	ref PREDICTED: Mus musculus similar to 3-phosphoglycerate dehydrogenase (LOC665516), misc RNA [XR_031967]	0.52	0.003	0.108
Olig1	NM_016968	ref Mus musculus oligodendrocyte transcription factor 1 (Olig1), mRNA [NM_016968]	0.52	0.011	0.225
Gm12229	XR_032858	ref PREDICTED: Mus musculus similar to heterogeneous nuclear ribonucleoprotein A3 (LOC677786), misc RNA [XR_032858]	0.52	0.044	0.432
ENSMUST00000109328	ENSMUST00000109328	ens WAP four-disulfide core domain 3 Gene [Source:MGI (curated);Acc:MGI:1923897] [ENSMUST00000109328]	0.52	0.024	0.326
LOC100045064	XR_031053	ref PREDICTED: Mus musculus similar to Selenium-binding protein 2 (56 kDa acetaminophen-binding protein) (AP56) (LOC100045064), misc RNA [XR_031053]	0.52	0.029	0.356
Phgdh	NM_016966	ref Mus musculus 3-phosphoglycerate dehydrogenase (Phgdh), mRNA [NM_016966]	0.52	0.006	0.170

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Ptpru	NM_001083119	ref Mus musculus protein tyrosine phosphatase, receptor type, U (Ptpru), transcript variant 2, mRNA [NM_001083119]	0.51	0.018	0.283
Gm5834	XM_619677	ref PREDICTED: Mus musculus predicted gene, EG545367 (EG545367), mRNA [XM_619677]	0.51	0.007	0.181
Itgbl1	NM_145467	ref Mus musculus integrin, beta-like 1 (Itgbl1), mRNA [NM_145467]	0.51	0.008	0.183
Skint4	NM_178786	ref Mus musculus selection and upkeep of intraepithelial T cells 4 (Skint4), mRNA [NM_178786]	0.51	0.009	0.201
Csmd3	NM_001081391	ref Mus musculus CUB and Sushi multiple domains 3 (Csmd3), mRNA [NM_001081391]	0.51	0.044	0.431
Cpt1a	NM_013495	ref Mus musculus carnitine palmitoyltransferase 1a, liver (Cpt1a), nuclear gene encoding mitochondrial protein, mRNA [NM_013495]	0.51	0.001	0.073
Mfge8	NM_008594	ref Mus musculus milk fat globule-EGF factor 8 protein (Mfge8), transcript variant 1, mRNA [NM_008594]	0.51	0.000	0.043
ENSMUST00000105157	ENSMUST00000105157	ens RIKEN cDNA 4933409K07 gene Gene [Source:MGI Symbol;Acc:MGI:1918429] [ENSMUST00000105157]	0.51	0.032	0.374
chr12:5303823-5379098_F	chr12:5303823-5379098_F	lincRNA:chr12:5303823-5379098 forward strand	0.51	0.004	0.129
chr1:87374975-87412500_F	chr1:87374975-87412500_F	lincRNA:chr1:87374975-87412500 forward strand	0.51	0.048	0.452
Slc41a2	NM_177388	ref Mus musculus solute carrier family 41, member 2 (Slc41a2), mRNA [NM_177388]	0.51	0.005	0.145
Gm4013	NR_033452	ref Mus musculus predicted gene 4013 (Gm4013), non-coding RNA [NR_033452]	0.51	0.005	0.145
Asphd2	NM_028386	ref Mus musculus aspartate beta-hydroxylase domain containing 2 (Asphd2), mRNA [NM_028386]	0.51	0.001	0.066
Fam159b	NM_029984	ref Mus musculus family with sequence similarity 159, member B (Fam159b), mRNA [NM_029984]	0.51	0.041	0.419
6030408B16Rik	NR_033803	ref Mus musculus RIKEN cDNA 6030408B16 gene (6030408B16Rik), non-coding RNA [NR_033803]	0.51	0.002	0.096
Aqp7	NM_007473	ref Mus musculus aquaporin 7 (Aqp7), mRNA [NM_007473]	0.51	0.001	0.063
Mark1	NM_145515	ref Mus musculus MAP/microtubule affinity-regulating kinase 1 (Mark1), mRNA [NM_145515]	0.51	0.003	0.114
Pmaip1	NM_021451	ref Mus musculus phorbol-12-myristate-13-acetate-induced protein 1 (Pmaip1), mRNA [NM_021451]	0.51	0.011	0.228
chr14:8792433-8792567_F	chr14:8792433-8792567_F	lincRNA:chr14:8792433-8792567 forward strand	0.51	0.012	0.234
chr18:63226635-63227111_R	chr18:63226635-63227111_R	lincRNA:chr18:63226635-63227111 reverse strand	0.50	0.043	0.428
4933404I11Rik	AK016650	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933404I11 product:unclassifiable, full insert sequence. [AK016650]	0.50	0.036	0.393
ENSMUST00000028543	ENSMUST00000028543	ens cDNA sequence BC006965 (BC006965), non-coding RNA [Source:RefSeq DNA;Acc:NR_024085] [ENSMUST00000028543]	0.50	0.002	0.082
Pign	NM_013784	ref Mus musculus phosphatidylinositol glycan anchor biosynthesis, class N (Pign), mRNA [NM_013784]	0.50	0.014	0.253
Ecm1	NM_007899	ref Mus musculus extracellular matrix protein 1 (Ecm1), mRNA [NM_007899]	0.50	0.008	0.190
Ncf1	NM_010876	ref Mus musculus neutrophil cytosolic factor 1 (Ncf1), mRNA [NM_010876]	0.50	0.003	0.117
Pdgfrl	NM_026840	ref Mus musculus platelet-derived growth factor receptor-like (Pdgfrl), mRNA [NM_026840]	0.50	0.027	0.348
Lmod2	NM_053098	ref Mus musculus leiomodien 2 (cardiac) (Lmod2), mRNA [NM_053098]	0.50	0.005	0.146

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Usp54	NM_030180	ref Mus musculus ubiquitin specific peptidase 54 (Usp54), mRNA [NM_030180]	0.50	0.012	0.238
Slc17a5	NM_172773	ref Mus musculus solute carrier family 17 (anion/sugar transporter), member 5 (Slc17a5), mRNA [NM_172773]	0.50	0.002	0.093
LOC637118	XR_032862	ref PREDICTED: Mus musculus similar to 5-adenosylmethionine decarboxylase (LOC637118), misc RNA [XR_032862]	0.50	0.005	0.145
Uck2	NM_030724	ref Mus musculus uridine-cytidine kinase 2 (Uck2), mRNA [NM_030724]	0.50	0.001	0.056
Acp5	NM_001102405	ref Mus musculus acid phosphatase 5, tartrate resistant (Acp5), transcript variant 1, mRNA [NM_001102405]	0.50	0.018	0.281
A530030E21Rik	AK079970	gb Mus musculus adult male aorta and vein cDNA, RIKEN full-length enriched library, clone:A530030E21 product:unclassifiable, full insert sequence. [AK079970]	0.50	0.001	0.075
Tes	NM_207176	ref Mus musculus testis derived transcript (Tes), mRNA [NM_207176]	0.50	0.015	0.260
Cyp7b1	NM_007825	ref Mus musculus cytochrome P450, family 7, subfamily b, polypeptide 1 (Cyp7b1), mRNA [NM_007825]	0.50	0.031	0.368
Srpx2	NM_026838	ref Mus musculus sushi-repeat-containing protein, X-linked 2 (Srpx2), transcript variant 1, mRNA [NM_026838]	0.50	0.001	0.057
Lancl3	NM_173414	ref Mus musculus LanC lantibiotic synthetase component C-like 3 (bacterial) (Lancl3), mRNA [NM_173414]	0.50	0.042	0.425
Gapt	NM_177713	ref Mus musculus Grb2-binding adaptor, transmembrane (Gapt), mRNA [NM_177713]	0.50	0.037	0.396
Osgin1	NM_027950	ref Mus musculus oxidative stress induced growth inhibitor 1 (Osgin1), mRNA [NM_027950]	0.50	0.016	0.272
Lyz2	NM_017372	ref Mus musculus lysozyme 2 (Lyz2), mRNA [NM_017372]	0.50	0.018	0.284
Pdzn3	NM_018884	ref Mus musculus PDZ domain containing RING finger 3 (Pdzn3), mRNA [NM_018884]	0.50	0.003	0.115
Sacs	NM_172809	ref Mus musculus saccin (Sacs), mRNA [NM_172809]	0.50	0.007	0.179
Snap25	NM_011428	ref Mus musculus synaptosomal-associated protein 25 (Snap25), mRNA [NM_011428]	0.50	0.001	0.071
Plp2	ENSMUST00000033486	ens proteolipid protein 2 Gene [Source:MGI (curated);Acc:MGI:1298382] [ENSMUST00000033486]	0.50	0.000	0.041
chr1:175653557-175671940_R	chr1:175653557-175671940_R	lincRNA:chr1:175653557-175671940 reverse strand	0.50	0.001	0.065
5730416F02Rik	NR_033596	ref Mus musculus RIKEN cDNA 5730416F02 gene (5730416F02Rik), non-coding RNA [NR_033596]	0.50	0.003	0.117
Lgals6	NM_010707	ref Mus musculus lectin, galactose binding, soluble 6 (Lgals6), mRNA [NM_010707]	0.50	0.028	0.352
Dmd	NM_007868	ref Mus musculus dystrophin, muscular dystrophy (Dmd), mRNA [NM_007868]	0.50	0.020	0.301
Olf847	NM_146525	ref Mus musculus olfactory receptor 847 (Olf847), mRNA [NM_146525]	0.49	0.032	0.372
D630010B17Rik	XM_001480529	ref PREDICTED: Mus musculus RIKEN cDNA D630010B17 gene (D630010B17Rik), mRNA [XM_001480529]	0.49	0.039	0.411
Klf4	NM_010637	ref Mus musculus Kruppel-like factor 4 (gut) (Klf4), mRNA [NM_010637]	0.49	0.001	0.070
chr13:83867711-83878140_R	chr13:83867711-83878140_R	lincRNA:chr13:83867711-83878140 reverse strand	0.49	0.015	0.260
Scx	NM_198885	ref Mus musculus scleraxis (Scx), mRNA [NM_198885]	0.49	0.011	0.222
Ednra	NM_010332	ref Mus musculus endothelin receptor type A (Ednra), mRNA [NM_010332]	0.49	0.010	0.209
Atp6v0d2	NM_175406	ref Mus musculus ATPase, H+ transporting, lysosomal V0 subunit D2 (Atp6v0d2), mRNA [NM_175406]	0.49	0.015	0.264
Dnahc10	NM_019536	ref Mus musculus dynein, axonemal, heavy chain 10 (Dnahc10), mRNA [NM_019536]	0.49	0.017	0.280
Emilin1	NM_133918	ref Mus musculus elastin microfibril interfacer 1 (Emilin1), mRNA [NM_133918]	0.49	0.028	0.348

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr5:22801058-22939737_R	chr5:22801058-22939737_R	lincRNA:chr5:22801058-22939737 reverse strand	0.49	0.047	0.446
9430018G01Rik	AK034646	gb Mus musculus 12 days embryo embryonic body between diaphragm region and neck cDNA, RIKEN full-length enriched library, clone:9430018G01 product:unclassifiable, full insert sequence. [AK034646]	0.49	0.033	0.376
Trpv4	NM_022017	ref Mus musculus transient receptor potential cation channel, subfamily V, member 4 (Trpv4), mRNA [NM_022017]	0.49	0.013	0.244
Hpse2	NM_001081257	ref Mus musculus heparanase 2 (Hpse2), mRNA [NM_001081257]	0.49	0.006	0.156
chr7:88131123-88136898_R	chr7:88131123-88136898_R	lincRNA:chr7:88131123-88136898 reverse strand	0.49	0.043	0.428
chr18:61781410-61788685_R	chr18:61781410-61788685_R	lincRNA:chr18:61781410-61788685 reverse strand	0.49	0.022	0.310
chr13:113555055-113564665_F	chr13:113555055-113564665_F	lincRNA:chr13:113555055-113564665 forward strand	0.49	0.013	0.240
Capg	NM_007599	ref Mus musculus capping protein (actin filament), gelsolin-like (Capg), transcript variant 1, mRNA [NM_007599]	0.49	0.002	0.094
chr7:66570691-66573827_R	chr7:66570691-66573827_R	lincRNA:chr7:66570691-66573827 reverse strand	0.49	0.028	0.351
chr15:59966962-59972812_R	chr15:59966962-59972812_R	lincRNA:chr15:59966962-59972812 reverse strand	0.49	0.001	0.060
Elmod1	NM_177769	ref Mus musculus ELMO domain containing 1 (Elmod1), mRNA [NM_177769]	0.49	0.026	0.340
Dnahc6	NM_001164669	ref Mus musculus dynein, axonemal, heavy chain 6 (Dnahc6), mRNA [NM_001164669]	0.49	0.003	0.113
4933406G16Rik	AK016692	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933406G16 product:unclassifiable, full insert sequence. [AK016692]	0.49	0.016	0.267
Lrp8	NM_001080926	ref Mus musculus low density lipoprotein receptor-related protein 8, apolipoprotein e receptor (Lrp8), transcript variant 2, mRNA [NM_001080926]	0.49	0.038	0.405
Atp10b	NM_176999	ref Mus musculus ATPase, class V, type 10B (Atp10b), mRNA [NM_176999]	0.49	0.049	0.455
Olf502	NM_146739	ref Mus musculus olfactory receptor 502 (Olf502), mRNA [NM_146739]	0.49	0.022	0.310
Ttc9	NM_001033149	ref Mus musculus tetratricopeptide repeat domain 9 (Ttc9), mRNA [NM_001033149]	0.49	0.043	0.427
Tectb	NM_009348	ref Mus musculus tectorin beta (Tectb), mRNA [NM_009348]	0.49	0.031	0.367
Atoh8	NM_153778	ref Mus musculus atonal homolog 8 (Drosophila) (Atoh8), mRNA [NM_153778]	0.49	0.009	0.204
Slc7a5	NM_011404	ref Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 5 (Slc7a5), mRNA [NM_011404]	0.49	0.011	0.222
Loxl1	NM_010729	ref Mus musculus lysyl oxidase-like 1 (Loxl1), mRNA [NM_010729]	0.49	0.025	0.333
chr2:117024098-117025009_R	chr2:117024098-117025009_R	lincRNA:chr2:117024098-117025009 reverse strand	0.48	0.014	0.258
Anxa1	NM_010730	ref Mus musculus annexin A1 (Anxa1), mRNA [NM_010730]	0.48	0.000	0.042
Olf963	NM_001011827	ref Mus musculus olfactory receptor 963 (Olf963), mRNA [NM_001011827]	0.48	0.016	0.271
S100a10	NM_009112	ref Mus musculus S100 calcium binding protein A10 (calpactin) (S100a10), mRNA [NM_009112]	0.48	0.002	0.096
Cd84	NM_013489	ref Mus musculus CD84 antigen (Cd84), mRNA [NM_013489]	0.48	0.035	0.388

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
Loxl1	NM_010729	ref Mus musculus lysyl oxidase-like 1 (Loxl1), mRNA [NM_010729]	0.48	0.026	0.341
Inpp4b	NM_001024617	ref Mus musculus inositol polyphosphate-4-phosphatase, type II (Inpp4b), mRNA [NM_001024617]	0.48	0.001	0.077
Wbscr27	NM_024479	ref Mus musculus Williams Beuren syndrome chromosome region 27 (human) (Wbscr27), mRNA [NM_024479]	0.48	0.004	0.126
chr1:167797581-167803031_F	chr1:167797581-167803031_F	lincRNA:chr1:167797581-167803031 forward strand	0.48	0.046	0.444
B4galnt3	NM_198884	ref Mus musculus beta-1,4-N-acetyl-galactosaminyl transferase 3 (B4galnt3), mRNA [NM_198884]	0.48	0.015	0.263
Cd300lb	NM_199221	ref Mus musculus CD300 antigen like family member B (Cd300lb), mRNA [NM_199221]	0.48	0.005	0.145
Clec1a	NM_175526	ref Mus musculus C-type lectin domain family 1, member a (Clec1a), mRNA [NM_175526]	0.48	0.024	0.323
chr3:26982754-26983352_R	chr3:26982754-26983352_R	lincRNA:chr3:26982754-26983352 reverse strand	0.48	0.042	0.425
Idua	NM_008325	ref Mus musculus iduronidase, alpha-L- (Idua), mRNA [NM_008325]	0.48	0.001	0.046
Mcf2l	NM_001159486	ref Mus musculus mcf.2 transforming sequence-like (Mcf2l), transcript variant 2, mRNA [NM_001159486]	0.48	0.038	0.404
Mertk	NM_008587	ref Mus musculus c-mer proto-oncogene tyrosine kinase (Mertk), mRNA [NM_008587]	0.48	0.019	0.290
Sprr2a2	NM_001164787	ref Mus musculus small proline-rich protein 2A2 (Sprr2a2), mRNA [NM_001164787]	0.48	0.023	0.316
chr12:15774073-15777144_R	chr12:15774073-15777144_R	lincRNA:chr12:15774073-15777144 reverse strand	0.48	0.029	0.359
Sulf1	NM_172294	ref Mus musculus sulfatase 1 (Sulf1), mRNA [NM_172294]	0.48	0.001	0.059
Apba1	NM_177034	ref Mus musculus amyloid beta (A4) precursor protein binding, family A, member 1 (Apba1), mRNA [NM_177034]	0.48	0.008	0.192
ENSMUST00000104915	ENSMUST00000104915	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q8C4B7] [ENSMUST00000104915]	0.48	0.037	0.399
Qpct	NM_027455	ref Mus musculus glutaminyl-peptide cyclotransferase (glutaminyl cyclase) (Qpct), mRNA [NM_027455]	0.47	0.000	0.040
1700007E06Rik	NM_001162880	ref Mus musculus RIKEN cDNA 1700007E06 gene (1700007E06Rik), transcript variant 1, mRNA [NM_001162880]	0.47	0.029	0.356
Ric3	NM_001038624	ref Mus musculus resistance to inhibitors of cholinesterase 3 homolog (C. elegans) (Ric3), transcript variant 1, mRNA [NM_001038624]	0.47	0.039	0.411
chr3:51784862-51793999_F	chr3:51784862-51793999_F	lincRNA:chr3:51784862-51793999 forward strand	0.47	0.033	0.376
chr18:61784800-61785170_F	chr18:61784800-61785170_F	lincRNA:chr18:61784800-61785170 forward strand	0.47	0.018	0.282
Dfna5	NM_018769	ref Mus musculus deafness, autosomal dominant 5 (human) (Dfna5), mRNA [NM_018769]	0.47	0.039	0.411
Ctsk	NM_007802	ref Mus musculus cathepsin K (Ctsk), mRNA [NM_007802]	0.47	0.015	0.259
chr16:40467818-40468474_F	chr16:40467818-40468474_F	lincRNA:chr16:40467818-40468474 forward strand	0.47	0.047	0.447
chr8:67542714-67561694_F	chr8:67542714-67561694_F	lincRNA:chr8:67542714-67561694 forward strand	0.47	0.046	0.444
chr11:6421951-6429173_F	chr11:6421951-6429173_F	lincRNA:chr11:6421951-6429173 forward strand	0.47	0.014	0.250
Crip3	NM_053250	ref Mus musculus cysteine-rich protein 3 (Crip3), transcript variant TLP-B, mRNA [NM_053250]	0.47	0.015	0.261
ENSMUST00000087384	ENSMUST00000087384	ens sphingomyelin synthase 1 Gene [Source:MGI (curated);Acc: MGI:2444110] [ENSMUST00000087384]	0.47	0.036	0.393

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
LOC620515	XM_884904	ref PREDICTED: Mus musculus similar to secretory protein (LOC620515), mRNA [XM_884904]	0.47	0.017	0.280
Atf4	NM_009716	ref Mus musculus activating transcription factor 4 (Atf4), mRNA [NM_009716]	0.47	0.001	0.069
Fgf23	NM_022657	ref Mus musculus fibroblast growth factor 23 (Fgf23), mRNA [NM_022657]	0.47	0.001	0.051
Gm5914	XM_622446	ref PREDICTED: Mus musculus hypothetical LOC546100 (LOC546100), mRNA [XM_622446]	0.47	0.005	0.145
Snap23	NM_001177792	ref Mus musculus synaptosomal-associated protein 23 (Snap23), transcript variant 1, mRNA [NM_001177792]	0.47	0.005	0.155
Slc16a6	NM_001029842	ref Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 6 (Slc16a6), transcript variant 1, mRNA [NM_001029842]	0.47	0.016	0.273
Gm13011	NM_001126318	ref Mus musculus predicted gene 13011 (Gm13011), mRNA [NM_001126318]	0.47	0.007	0.170
Slc43a1	NM_001081349	ref Mus musculus solute carrier family 43, member 1 (Slc43a1), transcript variant 1, mRNA [NM_001081349]	0.47	0.006	0.167
Itgam	NM_001082960	ref Mus musculus integrin alpha M (Itgam), transcript variant 1, mRNA [NM_001082960]	0.47	0.001	0.058
ENSMUST00000090710	ENSMUST00000090710	ens olfactory receptor 1140 Gene [Source:MGI (curated);Acc:MGI:3030974] [ENSMUST00000090710]	0.47	0.016	0.271
Sulf1	NM_172294	ref Mus musculus sulfatase 1 (Sulf1), mRNA [NM_172294]	0.47	0.001	0.069
ENSMUST00000043406	ENSMUST00000043406	ens NADPH oxidase 4 Gene [Source:MGI (curated);Acc:MGI:1354184] [ENSMUST00000043406]	0.47	0.030	0.364
Zc3h6	NM_178404	ref Mus musculus zinc finger CCCH type containing 6 (Zc3h6), mRNA [NM_178404]	0.47	0.031	0.369
chr15:32167516-32174417_R	chr15:32167516-32174417_R	lincRNA:chr15:32167516-32174417 reverse strand	0.47	0.005	0.145
Gm9252	XR_031621	ref PREDICTED: Mus musculus similar to Phosphoglycerate dehydrogenase (LOC677380), misc RNA [XR_031621]	0.46	0.012	0.230
Filip1	NM_001081243	ref Mus musculus filamin A interacting protein 1 (Filip1), mRNA [NM_001081243]	0.46	0.002	0.091
chr1:193048332-193049714_F	chr1:193048332-193049714_F	lincRNA:chr1:193048332-193049714 forward strand	0.46	0.004	0.127
chr7:30645026-30667034_R	chr7:30645026-30667034_R	lincRNA:chr7:30645026-30667034 reverse strand	0.46	0.045	0.441
Lrrn4cl	NM_001013019	ref Mus musculus LRRN4 C-terminal like (Lrrn4cl), mRNA [NM_001013019]	0.46	0.014	0.253
Tob2	NM_020507	ref Mus musculus transducer of ERBB2, 2 (Tob2), mRNA [NM_020507]	0.46	0.038	0.402
Acsm5	NM_178758	ref Mus musculus acyl-CoA synthetase medium-chain family member 5 (Acsm5), mRNA [NM_178758]	0.46	0.044	0.434
Cfh	NM_009888	ref Mus musculus complement component factor h (Cfh), mRNA [NM_009888]	0.46	0.006	0.160
Gpr182	NM_007412	ref Mus musculus G protein-coupled receptor 182 (Gpr182), mRNA [NM_007412]	0.46	0.000	0.036
Acsm4	NM_178414	ref Mus musculus acyl-CoA synthetase medium-chain family member 4 (Acsm4), mRNA [NM_178414]	0.46	0.004	0.139
Olf642	NM_146329	ref Mus musculus olfactory receptor 642 (Olf642), mRNA [NM_146329]	0.46	0.006	0.163
St8sia1	NM_011374	ref Mus musculus ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 (St8sia1), mRNA [NM_011374]	0.46	0.017	0.276
Slc16a6	NM_001029842	ref Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 6 (Slc16a6), transcript variant 1, mRNA [NM_001029842]	0.46	0.010	0.212
Aldh3b2	NM_001177438	ref Mus musculus aldehyde dehydrogenase 3 family, member B2 (Aldh3b2), mRNA [NM_001177438]	0.46	0.020	0.301

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Gm6320	NM_001037914	ref Mus musculus predicted gene 6320 (Gm6320), mRNA [NM_001037914]	0.46	0.001	0.069
4930412L05Rik	AK141187	gb Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched library, clone:C230090D07 product:unclassifiable, full insert sequence. [AK141187]	0.46	0.007	0.179
chr4:128207615-128242898_F	chr4:128207615-128242898_F	lincRNA:chr4:128207615-128242898 forward strand	0.46	0.048	0.449
chr16:9129538-9137898_F	chr16:9129538-9137898_F	lincRNA:chr16:9129538-9137898 forward strand	0.46	0.043	0.429
LOC641025	XM_001472178	ref PREDICTED: Mus musculus similar to Ig alpha-chain precursor (V139-D-J1) (LOC641025), mRNA [XM_001472178]	0.46	0.015	0.260
Ccl3	NM_011337	ref Mus musculus chemokine (C-C motif) ligand 3 (Ccl3), mRNA [NM_011337]	0.46	0.047	0.449
Abca7	NM_013850	ref Mus musculus ATP-binding cassette, sub-family A (ABC1), member 7 (Abca7), mRNA [NM_013850]	0.46	0.005	0.145
Gdf6	NM_013526	ref Mus musculus growth differentiation factor 6 (Gdf6), mRNA [NM_013526]	0.46	0.034	0.385
Aoah	NM_012054	ref Mus musculus acyloxyacyl hydrolase (Aoah), mRNA [NM_012054]	0.46	0.016	0.272
Fitm2	NM_173397	ref Mus musculus fat storage-inducing transmembrane protein 2 (Fitm2), mRNA [NM_173397]	0.46	0.023	0.319
Cd44	NM_009851	ref Mus musculus CD44 antigen (Cd44), transcript variant 1, mRNA [NM_009851]	0.46	0.030	0.364
Cd302	NM_025422	ref Mus musculus CD302 antigen (Cd302), mRNA [NM_025422]	0.46	0.002	0.097
chr1:74114371-74115267_R	chr1:74114371-74115267_R	lincRNA:chr1:74114371-74115267 reverse strand	0.46	0.017	0.277
chr3:45081952-45092352_F	chr3:45081952-45092352_F	lincRNA:chr3:45081952-45092352 forward strand	0.46	0.020	0.296
Acot3	NM_134246	ref Mus musculus acyl-CoA thioesterase 3 (Acot3), mRNA [NM_134246]	0.46	0.005	0.155
chr1:161969026-162001640_F	chr1:161969026-162001640_F	lincRNA:chr1:161969026-162001640 forward strand	0.46	0.004	0.131
2810474O19Rik	NM_026054	ref Mus musculus RIKEN cDNA 2810474O19 gene (2810474O19Rik), mRNA [NM_026054]	0.45	0.005	0.155
Plekha4	NM_148927	ref Mus musculus pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 4 (Plekha4), mRNA [NM_148927]	0.45	0.046	0.444
chr4:146017200-146029700_R	chr4:146017200-146029700_R	lincRNA:chr4:146017200-146029700 reverse strand	0.45	0.025	0.332
Olfr582	NM_147053	ref Mus musculus olfactory receptor 582 (Olfr582), mRNA [NM_147053]	0.45	0.024	0.327
chr1:175654606-175672031_F	chr1:175654606-175672031_F	lincRNA:chr1:175654606-175672031 forward strand	0.45	0.008	0.185
Fam107a	NM_183187	ref Mus musculus family with sequence similarity 107, member A (Fam107a), mRNA [NM_183187]	0.45	0.047	0.446
chr18:12755615-12773365_R	chr18:12755615-12773365_R	lincRNA:chr18:12755615-12773365 reverse strand	0.45	0.007	0.175
Eps8	NM_007945	ref Mus musculus epidermal growth factor receptor pathway substrate 8 (Eps8), mRNA [NM_007945]	0.45	0.002	0.102
LOC100045474	XR_032156	ref PREDICTED: Mus musculus similar to ADP-ribosylation factor GTPase activating protein 3 (LOC100045474), misc RNA [XR_032156]	0.45	0.003	0.116
chr13:64018565-64082570_R	chr13:64018565-64082570_R	lincRNA:chr13:64018565-64082570 reverse strand	0.45	0.045	0.439
chr17:6455677-6476228_F	chr17:6455677-6476228_F	lincRNA:chr17:6455677-6476228 forward strand	0.45	0.007	0.177

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
chr4:133368314-133380210_R	chr4:133368314-133380210_R	lincRNA:chr4:133368314-133380210 reverse strand	0.45	0.020	0.294
Adprhl1	NM_172750	ref Mus musculus ADP-ribosylhydrolase like 1 (Adprhl1), mRNA [NM_172750]	0.45	0.001	0.064
Fbln1	NM_010180	ref Mus musculus fibulin 1 (Fbln1), mRNA [NM_010180]	0.45	0.016	0.270
AA522020	AA522020	gb vh78e12.r1 Knowles Solter mouse E6 5d whole embryo Mus musculus cDNA clone IMAGE:893134 3'. [AA522020]	0.45	0.001	0.069
Lrp1b	NM_053011	ref Mus musculus low density lipoprotein-related protein 1B (deleted in tumors) (Lrp1b), mRNA [NM_053011]	0.45	0.023	0.319
Igfbp4	NM_010517	ref Mus musculus insulin-like growth factor binding protein 4 (Igfbp4), mRNA [NM_010517]	0.45	0.006	0.166
Ldoc1	NM_001018087	ref Mus musculus leucine zipper, down-regulated in cancer 1 (Ldoc1), mRNA [NM_001018087]	0.45	0.008	0.194
Pkp4	NM_026361	ref Mus musculus plakophilin 4 (Pkp4), transcript variant 1, mRNA [NM_026361]	0.45	0.003	0.123
Gabarapl1	NM_020590	ref Mus musculus gamma-aminobutyric acid (GABA) A receptor-associated protein-like 1 (Gabarapl1), mRNA [NM_020590]	0.45	0.026	0.337
Htra3	NM_001042615	ref Mus musculus HtrA serine peptidase 3 (Htra3), transcript variant 2, mRNA [NM_001042615]	0.45	0.001	0.054
LOC100044317	XM_001471589	ref PREDICTED: Mus musculus hypothetical protein LOC100044317 (LOC100044317), mRNA [XM_001471589]	0.45	0.008	0.194
Pdgfra	NM_011058	ref Mus musculus platelet derived growth factor receptor, alpha polypeptide (Pdgfra), transcript variant 1, mRNA [NM_011058]	0.45	0.003	0.114
Gm13337	XR_032647	ref PREDICTED: Mus musculus similar to 3-phosphoglycerate dehydrogenase (LOC637235), misc RNA [XR_032647]	0.45	0.006	0.157
ENSMUST00000059018	ENSMUST00000059018	ens RIKEN cDNA 1110003O08 gene Gene [Source:MGI Symbol;Acc:MGI:1923541] [ENSMUST00000059018]	0.45	0.010	0.208
Cacnb3	NM_007581	ref Mus musculus calcium channel, voltage-dependent, beta 3 subunit (Cacnb3), transcript variant 1, mRNA [NM_007581]	0.45	0.001	0.048
4930512H18Rik	AK084432	gb Mus musculus 12 days embryo eyeball cDNA, RIKEN full-length enriched library, clone:D230045M11 product:unclassifiable, full insert sequence. [AK084432]	0.45	0.004	0.142
LOC546233	XM_001479766	ref PREDICTED: Mus musculus hypothetical LOC546233 (LOC546233), mRNA [XM_001479766]	0.45	0.003	0.123
chr15:96984422-97000322_R	chr15:96984422-97000322_R	lincRNA:chr15:96984422-97000322 reverse strand	0.45	0.044	0.436
chr10:84005221-84022896_F	chr10:84005221-84022896_F	lincRNA:chr10:84005221-84022896 forward strand	0.45	0.017	0.279
1700017B05Rik	NM_028820	ref Mus musculus RIKEN cDNA 1700017B05 gene (1700017B05Rik), mRNA [NM_028820]	0.45	0.001	0.058
Fut1	NM_008051	ref Mus musculus fucosyltransferase 1 (Fut1), mRNA [NM_008051]	0.45	0.015	0.260
ENSMUST00000087884	ENSMUST00000087884	Unknown	0.44	0.036	0.391
Dpysl3	NM_009468	ref Mus musculus dihydropyrimidinase-like 3 (Dpysl3), transcript variant 2, mRNA [NM_009468]	0.44	0.034	0.380
ENSMUST00000119102	ENSMUST00000119102	ens DEAH (Asp-Glu-Ala-His) box polypeptide 34 Gene [Source:MGI (curated);Acc:MGI:1918973] [ENSMUST00000119102]	0.44	0.028	0.348
Gm9485	XM_001475063	ref PREDICTED: Mus musculus similar to retinitis pigmentosa GTPase regulator (LOC670449), mRNA [XM_001475063]	0.44	0.023	0.319

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
A530072M11Rik	AK080160	gb Mus musculus adult male aorta and vein cDNA, RIKEN full-length enriched library, clone:A530072M11 product:unclassifiable, full insert sequence. [AK080160]	0.44	0.007	0.183
Enpp2	NM_001136077	ref Mus musculus ectonucleotide pyrophosphatase/phosphodiesterase 2 (Enpp2), transcript variant 1, mRNA [NM_001136077]	0.44	0.001	0.059
1700085B03Rik	BU936879	gb AGENCOURT_10524094 NIH_MGC_169 Mus musculus cDNA clone IMAGE:6704706 5', mRNA sequence [BU936879]	0.44	0.003	0.123
Car13	NM_024495	ref Mus musculus carbonic anhydrase 13 (Car13), mRNA [NM_024495]	0.44	0.008	0.189
chr15:61870759-61938796_F	chr15:61870759-61938796_F	lincRNA:chr15:61870759-61938796 forward strand	0.44	0.029	0.353
Oas1g	NM_011852	ref Mus musculus 2'-5' oligoadenylate synthetase 1G (Oas1g), mRNA [NM_011852]	0.44	0.008	0.185
1500011B03Rik	NR_027818	ref Mus musculus RIKEN cDNA 1500011B03 gene (1500011B03Rik), transcript variant 2, non-coding RNA [NR_027818]	0.44	0.001	0.080
Dbn1	NM_001177371	ref Mus musculus drebrin 1 (Dbn1), transcript variant 1, mRNA [NM_001177371]	0.44	0.009	0.195
Egfr	NM_207655	ref Mus musculus epidermal growth factor receptor (Egfr), transcript variant 1, mRNA [NM_207655]	0.44	0.001	0.074
Tacr1	NM_009313	ref Mus musculus tachykinin receptor 1 (Tacr1), mRNA [NM_009313]	0.44	0.008	0.183
Tacr2	NM_009314	ref Mus musculus tachykinin receptor 2 (Tacr2), mRNA [NM_009314]	0.44	0.036	0.393
Gm15264	XM_001478841	ref PREDICTED: Mus musculus similar to tuftelin (LOC100042801), mRNA [XM_001478841]	0.44	0.035	0.387
1700019B03Rik	NM_029598	ref Mus musculus RIKEN cDNA 1700019B03 gene (1700019B03Rik), mRNA [NM_029598]	0.44	0.023	0.320
chr14:79249302-79290000_R	chr14:79249302-79290000_R	lincRNA:chr14:79249302-79290000 reverse strand	0.44	0.017	0.275
chr8:74348539-74378200_R	chr8:74348539-74378200_R	lincRNA:chr8:74348539-74378200 reverse strand	0.44	0.025	0.332
B230110C06Rik	AK020961	gb Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enriched library, clone:B230110C06 product:unclassifiable, full insert sequence. [AK020961]	0.44	0.004	0.133
chr17:26911032-26912366_F	chr17:26911032-26912366_F	lincRNA:chr17:26911032-26912366 forward strand	0.44	0.045	0.439
Oas1	NM_145209	ref Mus musculus 2'-5' oligoadenylate synthetase-like 1 (Oas1), mRNA [NM_145209]	0.44	0.039	0.412
Apbb1ip	NM_019456	ref Mus musculus amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein (Apbb1ip), mRNA [NM_019456]	0.44	0.010	0.207
chr7:68849401-68958266_R	chr7:68849401-68958266_R	lincRNA:chr7:68849401-68958266 reverse strand	0.44	0.025	0.331
Slc6a13	NM_144512	ref Mus musculus solute carrier family 6 (neurotransmitter transporter, GABA), member 13 (Slc6a13), mRNA [NM_144512]	0.44	0.022	0.310
chr14:55671783-55680316_R	chr14:55671783-55680316_R	lincRNA:chr14:55671783-55680316 reverse strand	0.44	0.023	0.318
Scpep1	NM_029023	ref Mus musculus serine carboxypeptidase 1 (Scpep1), mRNA [NM_029023]	0.44	0.004	0.134
chr2:72818943-72826893_F	chr2:72818943-72826893_F	lincRNA:chr2:72818943-72826893 forward strand	0.44	0.019	0.294
chr18:63524187-63524582_R	chr18:63524187-63524582_R	lincRNA:chr18:63524187-63524582 reverse strand	0.44	0.043	0.428

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
ENSMUST00000059658	ENSMUST00000059658	ens predicted gene 867 Gene [Source:MGI Symbol;Acc:MGI:2685713] [ENSMUST00000059658]	0.44	0.013	0.246
chr1:59449275-59474025_F	chr1:59449275-59474025_F	lincRNA:chr1:59449275-59474025 forward strand	0.43	0.023	0.317
Ino80	NM_026574	ref Mus musculus INO80 homolog (S. cerevisiae) (Ino80), mRNA [NM_026574]	0.43	0.036	0.392
chrX:148803114-148851243_F	chrX:148803114-148851243_F	lincRNA:chrX:148803114-148851243 forward strand	0.43	0.038	0.402
Tcstv3	NM_153523	ref Mus musculus 2-cell-stage, variable group, member 3 (Tcstv3), mRNA [NM_153523]	0.43	0.014	0.257
Hspb1	NM_013560	ref Mus musculus heat shock protein 1 (Hspb1), mRNA [NM_013560]	0.43	0.000	0.042
Rnd1	NM_172612	ref Mus musculus Rho family GTPase 1 (Rnd1), mRNA [NM_172612]	0.43	0.046	0.443
chr10:21542515-21579890_F	chr10:21542515-21579890_F	lincRNA:chr10:21542515-21579890 forward strand	0.43	0.021	0.303
Siah1a	NM_009172	ref Mus musculus seven in absentia 1A (Siah1a), mRNA [NM_009172]	0.43	0.008	0.183
Fgfr3	NM_008010	ref Mus musculus fibroblast growth factor receptor 3 (Fgfr3), transcript variant 1, mRNA [NM_008010]	0.43	0.023	0.321
Esyt3	NM_177775	ref Mus musculus extended synaptotagmin-like protein 3 (Esyt3), mRNA [NM_177775]	0.43	0.020	0.295
Ccdc150	NM_030025	ref Mus musculus coiled-coil domain containing 150 (Ccdc150), mRNA [NM_030025]	0.43	0.027	0.344
Hsfy2	NM_027661	ref Mus musculus heat shock transcription factor, Y linked 2 (Hsfy2), mRNA [NM_027661]	0.43	0.002	0.089
Numbl	NM_010950	ref Mus musculus numb-like (Numbl), mRNA [NM_010950]	0.43	0.040	0.416
chr18:63455560-63548085_F	chr18:63455560-63548085_F	lincRNA:chr18:63455560-63548085 forward strand	0.43	0.049	0.453
Armxc3	NM_027870	ref Mus musculus armadillo repeat containing, X-linked 3 (Armxc3), mRNA [NM_027870]	0.43	0.002	0.086
Axl	NM_009465	ref Mus musculus AXL receptor tyrosine kinase (Axl), mRNA [NM_009465]	0.43	0.004	0.126
A430110N23Rik	NM_173008	ref Mus musculus RIKEN cDNA A430110N23 gene (A430110N23Rik), mRNA [NM_173008]	0.43	0.008	0.183
Sema3b	NM_001042779	ref Mus musculus sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B (Sema3b), transcript variant 1, mRNA [NM_001042779]	0.43	0.001	0.050
Amd2	NM_007444	ref Mus musculus S-adenosylmethionine decarboxylase 2 (Amd2), mRNA [NM_007444]	0.43	0.024	0.327
Arg1	NM_007482	ref Mus musculus arginase, liver (Arg1), mRNA [NM_007482]	0.43	0.048	0.452
Cdsn	NM_001008424	ref Mus musculus corneodesmosin (Cdsn), mRNA [NM_001008424]	0.43	0.010	0.212
chr6:31007184-31007725_R	chr6:31007184-31007725_R	lincRNA:chr6:31007184-31007725 reverse strand	0.43	0.038	0.404
St3gal1	NM_009177	ref Mus musculus ST3 beta-galactoside alpha-2,3-sialyltransferase 1 (St3gal1), mRNA [NM_009177]	0.43	0.003	0.116
Amd2	NM_007444	ref Mus musculus S-adenosylmethionine decarboxylase 2 (Amd2), mRNA [NM_007444]	0.42	0.035	0.386
Clip3	NM_001081114	ref Mus musculus CAP-GLY domain containing linker protein 3 (Clip3), mRNA [NM_001081114]	0.42	0.000	0.043
chr5:88995039-89009064_F	chr5:88995039-89009064_F	lincRNA:chr5:88995039-89009064 forward strand	0.42	0.003	0.126
Snrnp35	NM_029532	ref Mus musculus small nuclear ribonucleoprotein 35 (U11/U12) (Snrnp35), mRNA [NM_029532]	0.42	0.003	0.114

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
ENSMUST00000106176	ENSMUST00000106176	ens guanine nucleotide binding protein-like 2 (nucleolar) Gene [Source:MGI (curated);Acc:MGI:2385207] [ENSMUST00000106176]	0.42	0.015	0.259
Gm4230	XM_001479798	ref PREDICTED: Mus musculus hypothetical protein LOC100043099 (LOC100043099), mRNA [XM_001479798]	0.42	0.026	0.339
chr14:77104770-77105392_F	chr14:77104770-77105392_F	lincRNA:chr14:77104770-77105392 forward strand	0.42	0.042	0.424
chr5:75389503-75396250_F	chr5:75389503-75396250_F	lincRNA:chr5:75389503-75396250 forward strand	0.42	0.029	0.359
chr10:94900849-94928059_R	chr10:94900849-94928059_R	lincRNA:chr10:94900849-94928059 reverse strand	0.42	0.047	0.446
chr2:83517176-83519228_R	chr2:83517176-83519228_R	lincRNA:chr2:83517176-83519228 reverse strand	0.42	0.026	0.337
2310050B05Rik	AK136697	gb Mus musculus adult male epididymis cDNA, RIKEN full-length enriched library, clone:9230023N21 product: hypothetical protein, full insert sequence. [AK136697]	0.42	0.021	0.306
Siglec1	NM_011426	ref Mus musculus sialic acid binding Ig-like lectin 1, sialoadhesin (Siglec1), mRNA [NM_011426]	0.42	0.039	0.412
chr3:96074625-96086375_R	chr3:96074625-96086375_R	lincRNA:chr3:96074625-96086375 reverse strand	0.42	0.041	0.420
chr1:141824450-141835125_F	chr1:141824450-141835125_F	lincRNA:chr1:141824450-141835125 forward strand	0.42	0.002	0.086
Tgfb2	NM_009371	ref Mus musculus transforming growth factor, beta receptor II (Tgfb2), transcript variant 1, mRNA [NM_009371]	0.42	0.003	0.126
Gprc5b	NM_022420	ref Mus musculus G protein-coupled receptor, family C, group 5, member B (Gprc5b), mRNA [NM_022420]	0.42	0.002	0.088
Tgif2	NM_173396	ref Mus musculus TGFB-induced factor homeobox 2 (Tgif2), mRNA [NM_173396]	0.42	0.034	0.385
chr1:167797581-167803031_R	chr1:167797581-167803031_R	lincRNA:chr1:167797581-167803031 reverse strand	0.42	0.007	0.178
B3gnt8	NM_146184	ref Mus musculus UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8 (B3gnt8), transcript variant 1, mRNA [NM_146184]	0.42	0.015	0.260
Larp6	NM_026235	ref Mus musculus La ribonucleoprotein domain family, member 6 (Larp6), mRNA [NM_026235]	0.42	0.001	0.051
Fosl2	NM_008037	ref Mus musculus fos-like antigen 2 (Fosl2), mRNA [NM_008037]	0.42	0.028	0.350
Zfp239	NM_001001792	ref Mus musculus zinc finger protein 239 (Zfp239), transcript variant 1, mRNA [NM_001001792]	0.42	0.028	0.351
chr12:73860757-73862034_R	chr12:73860757-73862034_R	lincRNA:chr12:73860757-73862034 reverse strand	0.42	0.016	0.272
chr5:54053882-54054174_F	chr5:54053882-54054174_F	lincRNA:chr5:54053882-54054174 forward strand	0.42	0.022	0.311
Pycr1	ENSMUST00000026133	ens pyrroline-5-carboxylate reductase 1 Gene [Source:MGI (curated);Acc:MGI:2384795] [ENSMUST00000026133]	0.42	0.022	0.311
chr18:57124435-57134910_F	chr18:57124435-57134910_F	lincRNA:chr18:57124435-57134910 forward strand	0.41	0.022	0.311
Dclk1	NM_019978	ref Mus musculus doublecortin-like kinase 1 (Dclk1), transcript variant 1, mRNA [NM_019978]	0.41	0.032	0.375
Zfp663	NM_001005425	ref Mus musculus zinc finger protein 663 (Zfp663), mRNA [NM_001005425]	0.41	0.001	0.075
Tcfcp2l1	NM_023755	ref Mus musculus transcription factor CP2-like 1 (Tcfcp2l1), mRNA [NM_023755]	0.41	0.048	0.449
Il28ra	NM_174851	ref Mus musculus interleukin 28 receptor alpha (Il28ra), mRNA [NM_174851]	0.41	0.016	0.271

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Slc4a4	NM_018760	ref Mus musculus solute carrier family 4 (anion exchanger), member 4 (Slc4a4), transcript variant 1, mRNA [NM_018760]	0.41	0.042	0.426
LOC100045005	XR_031422	ref PREDICTED: Mus musculus similar to Deltex3 (LOC100045005), misc RNA [XR_031422]	0.41	0.003	0.122
C1qtnf3	NM_030888	ref Mus musculus C1q and tumor necrosis factor related protein 3 (C1qtnf3), mRNA [NM_030888]	0.41	0.008	0.190
Arl13b	NM_026577	ref Mus musculus ADP-ribosylation factor-like 13B (Arl13b), mRNA [NM_026577]	0.41	0.002	0.089
Fgf20	NM_030610	ref Mus musculus fibroblast growth factor 20 (Fgf20), mRNA [NM_030610]	0.41	0.030	0.360
Mical1	NM_138315	ref Mus musculus microtubule associated monooxygenase, calponin and LIM domain containing 1 (Mical1), transcript variant 1, mRNA [NM_138315]	0.41	0.000	0.028
Igk-C	AK036494	gb Mus musculus adult male bone cDNA, RIKEN full-length enriched library, clone:9830118L20 product:unclassifiable, full insert sequence. [AK036494]	0.41	0.028	0.351
chr6:31078802-31079644_R	chr6:31078802-31079644_R	lincRNA:chr6:31078802-31079644 reverse strand	0.41	0.045	0.441
ENSMUST00000098351	ENSMUST00000098351	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3U0R0] [ENSMUST00000098351]	0.41	0.018	0.282
Amigo2	NM_178114	ref Mus musculus adhesion molecule with Ig like domain 2 (Amigo2), transcript variant 1, mRNA [NM_178114]	0.41	0.015	0.260
1700025H01Rik	ENSMUST00000061675	ens RIKEN cDNA 1700025H01 gene Gene [Source:MGI Symbol;Acc:MGI:1922781] [ENSMUST00000061675]	0.41	0.030	0.366
Pik3c2g	NM_207683	ref Mus musculus phosphatidylinositol 3-kinase, C2 domain containing, gamma polypeptide (Pik3c2g), transcript variant 1, mRNA [NM_207683]	0.41	0.015	0.262
BC061212	NM_198667	ref Mus musculus cDNA sequence BC061212 (BC061212), mRNA [NM_198667]	0.41	0.013	0.245
Fam167b	NM_182783	ref Mus musculus family with sequence similarity 167, member B (Fam167b), mRNA [NM_182783]	0.41	0.004	0.140
chr4:135138014-135174889_R	chr4:135138014-135174889_R	lincRNA:chr4:135138014-135174889 reverse strand	0.41	0.046	0.444
ENSMUST00000051744	ENSMUST00000051744	ens RIKEN cDNA A930104D05 gene Gene [Source:MGI Symbol;Acc:MGI:2444352] [ENSMUST00000051744]	0.41	0.050	0.457
chr15:32708654-32725622_F	chr15:32708654-32725622_F	lincRNA:chr15:32708654-32725622 forward strand	0.41	0.009	0.204
4933426K07Rik	AK016935	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933426K07 product:unclassifiable, full insert sequence. [AK016935]	0.41	0.037	0.399
Ier5	NM_010500	ref Mus musculus immediate early response 5 (Ier5), mRNA [NM_010500]	0.41	0.012	0.238
1110028F18Rik	AK003944	gb Mus musculus 18-day embryo whole body cDNA, RIKEN full-length enriched library, clone:1110028F18 product:unclassifiable, full insert sequence. [AK003944]	0.41	0.042	0.423
Sfp1	NM_011355	ref Mus musculus SFFV proviral integration 1 (Sfp1), mRNA [NM_011355]	0.41	0.011	0.225
Ccdc121	NM_207280	ref Mus musculus coiled-coil domain containing 121 (Ccdc121), mRNA [NM_207280]	0.41	0.041	0.420
chr4:145000941-145148666_R	chr4:145000941-145148666_R	lincRNA:chr4:145000941-145148666 reverse strand	0.41	0.008	0.191
chr1:175654606-175672031_R	chr1:175654606-175672031_R	lincRNA:chr1:175654606-175672031 reverse strand	0.41	0.018	0.280
Egfr	NM_007912	ref Mus musculus epidermal growth factor receptor (Egfr), transcript variant 2, mRNA [NM_007912]	0.41	0.019	0.291
Olf539	NM_146961	ref Mus musculus olfactory receptor 539 (Olf539), mRNA [NM_146961]	0.41	0.015	0.260

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Rhob	NM_007483	ref Mus musculus ras homolog gene family, member B (Rhob), mRNA [NM_007483]	0.40	0.003	0.112
Arl13b	NM_026577	ref Mus musculus ADP-ribosylation factor-like 13B (Arl13b), mRNA [NM_026577]	0.40	0.005	0.152
Casr	NM_013803	ref Mus musculus calcium-sensing receptor (Casr), mRNA [NM_013803]	0.40	0.026	0.338
chr10:94134000-94149200_F	chr10:94134000-94149200_F	lincRNA:chr10:94134000-94149200 forward strand	0.40	0.035	0.388
Fam188b	NM_177883	ref Mus musculus family with sequence similarity 188, member B (Fam188b), transcript variant 2, mRNA [NM_177883]	0.40	0.023	0.319
Tmem8	NM_021793	ref Mus musculus transmembrane protein 8 (five membrane-spanning domains) (Tmem8), mRNA [NM_021793]	0.40	0.015	0.260
chr3:62727150-62758225_F	chr3:62727150-62758225_F	lincRNA:chr3:62727150-62758225 forward strand	0.40	0.038	0.407
Fam126b	NM_172513	ref Mus musculus family with sequence similarity 126, member B (Fam126b), mRNA [NM_172513]	0.40	0.002	0.100
Dcbld1	NM_025705	ref Mus musculus discoidin, CUB and LCCL domain containing 1 (Dcbld1), mRNA [NM_025705]	0.40	0.022	0.311
Gm3581	XM_001476168	ref PREDICTED: Mus musculus hypothetical protein LOC100046408 (LOC100046408), mRNA [XM_001476168]	0.40	0.027	0.347
Ccdc80	NM_026439	ref Mus musculus coiled-coil domain containing 80 (Ccdc80), mRNA [NM_026439]	0.40	0.041	0.418
Hpcal1	NM_016677	ref Mus musculus hippocalcin-like 1 (Hpcal1), mRNA [NM_016677]	0.40	0.016	0.273
Gm9791	XM_001474886	ref PREDICTED: Mus musculus similar to calcium-regulated heat-stable protein (24kD) (LOC100040232), mRNA [XM_001474886]	0.40	0.014	0.258
ENSMUST00000097320	ENSMUST00000097320	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q3TXX5] [ENSMUST00000097320]	0.40	0.009	0.203
chr3:70581406-70614856_R	chr3:70581406-70614856_R	lincRNA:chr3:70581406-70614856 reverse strand	0.40	0.041	0.422
C1ra	NM_023143	ref Mus musculus complement component 1, r subcomponent A (C1ra), mRNA [NM_023143]	0.40	0.049	0.456
Igf1	NM_010512	ref Mus musculus insulin-like growth factor 1 (Igf1), transcript variant 1, mRNA [NM_010512]	0.40	0.011	0.218
Gm5632	XM_486539	ref PREDICTED: Mus musculus predicted gene, EG434676 (EG434676), mRNA [XM_486539]	0.40	0.011	0.220
Pcolce2	NM_029620	ref Mus musculus procollagen C-endopeptidase enhancer 2 (Pcolce2), mRNA [NM_029620]	0.40	0.003	0.112
Tmem92-ps	NM_001163172	ref Mus musculus transmembrane protein 92, pseudogene (Tmem92-ps), transcript variant 1, mRNA [NM_001163172]	0.40	0.010	0.216
Sbsn	NM_172205	ref Mus musculus suprabasin (Sbsn), transcript variant 1, mRNA [NM_172205]	0.40	0.001	0.074
Mcf2l	NM_178076	ref Mus musculus mcf.2 transforming sequence-like (Mcf2l), transcript variant 1, mRNA [NM_178076]	0.40	0.040	0.414
S100a6	NM_011313	ref Mus musculus S100 calcium binding protein A6 (calcylin) (S100a6), mRNA [NM_011313]	0.40	0.022	0.310
Cd36	NM_007643	ref Mus musculus CD36 antigen (Cd36), transcript variant 2, mRNA [NM_007643]	0.40	0.002	0.100
ENSMUST00000034997	ENSMUST00000034997	ens RIKEN cDNA 2810026P18 gene Gene [Source:MGI Symbol;Acc:MGI:1919905] [ENSMUST00000034997]	0.40	0.031	0.367
1700022P22Rik	NM_029336	ref Mus musculus RIKEN cDNA 1700022P22 gene (1700022P22Rik), mRNA [NM_029336]	0.40	0.050	0.457

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Lipa	NM_021460	ref Mus musculus lysosomal acid lipase A (Lipa), transcript variant 1, mRNA [NM_021460]	0.40	0.019	0.289
Stxbp2	NM_011503	ref Mus musculus syntaxin binding protein 2 (Stxbp2), mRNA [NM_011503]	0.40	0.008	0.195
Kcns3	NM_173417	ref Mus musculus potassium voltage-gated channel, delayed-rectifier, subfamily S, member 3 (Kcns3), transcript variant 1, mRNA [NM_173417]	0.40	0.015	0.259
chr10:24269317-24270145_R	chr10:24269317-24270145_R	lincRNA:chr10:24269317-24270145 reverse strand	0.40	0.033	0.379
Cdh26	NM_198656	ref Mus musculus cadherin-like 26 (Cdh26), mRNA [NM_198656]	0.40	0.026	0.341
Cyb5r3	NM_029787	ref Mus musculus cytochrome b5 reductase 3 (Cyb5r3), mRNA [NM_029787]	0.40	0.002	0.100
Clec4a1	NM_199311	ref Mus musculus C-type lectin domain family 4, member a1 (Clec4a1), mRNA [NM_199311]	0.40	0.019	0.289
chr14:76912477-76931702_R	chr14:76912477-76931702_R	lincRNA:chr14:76912477-76931702 reverse strand	0.40	0.020	0.296
Olf113	NM_146289	ref Mus musculus olfactory receptor 113 (Olf113), mRNA [NM_146289]	0.40	0.029	0.353
chr7:69117827-69127242_R	chr7:69117827-69127242_R	lincRNA:chr7:69117827-69127242 reverse strand	0.40	0.018	0.282
4930551I15Rik	AK016092	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930551I15 product:unclassifiable, full insert sequence. [AK016092]	0.40	0.028	0.349
Slc7a6	NM_178798	ref Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 6 (Slc7a6), mRNA [NM_178798]	0.40	0.026	0.341
Tiparp	NM_178892	ref Mus musculus TCDD-inducible poly(ADP-ribose) polymerase (Tiparp), mRNA [NM_178892]	0.40	0.032	0.374
Fcamr	NM_001170632	ref Mus musculus Fc receptor, IgA, IgM, high affinity (Fcamr), transcript variant 1, mRNA [NM_001170632]	0.40	0.043	0.430
Epha1	NM_023580	ref Mus musculus Eph receptor A1 (Epha1), mRNA [NM_023580]	0.39	0.007	0.173
Tlr7	NM_133211	ref Mus musculus toll-like receptor 7 (Tlr7), mRNA [NM_133211]	0.39	0.002	0.086
Klhl15	NM_001039060	ref Mus musculus kelch-like 15 (Drosophila) (Klhl15), transcript variant 2, mRNA [NM_001039060]	0.39	0.040	0.415
Chst3	NM_016803	ref Mus musculus carbohydrate (chondroitin 6/keratan) sulfotransferase 3 (Chst3), mRNA [NM_016803]	0.39	0.018	0.285
Arid3a	NM_007880	ref Mus musculus AT rich interactive domain 3A (BRIGHT-like) (Arid3a), mRNA [NM_007880]	0.39	0.045	0.440
Rph3al	ENSMUST00000121287	ens rabphilin 3A-like (without C2 domains) Gene [Source:MGI (curated);Acc:MGI:1923492] [ENSMUST00000121287]	0.39	0.013	0.241
Rusc2	NM_001037709	ref Mus musculus RUN and SH3 domain containing 2 (Rusc2), transcript variant 2, mRNA [NM_001037709]	0.39	0.010	0.212
chr10:83181374-83249918_R	chr10:83181374-83249918_R	lincRNA:chr10:83181374-83249918 reverse strand	0.39	0.006	0.159
Atf7	NM_146065	ref Mus musculus activating transcription factor 7 (Atf7), mRNA [NM_146065]	0.39	0.012	0.231
LOC100047683	XR_033828	ref PREDICTED: Mus musculus hypothetical protein LOC100047683 (LOC100047683), misc RNA [XR_033828]	0.39	0.032	0.375
P2rx7	NM_001038845	ref Mus musculus purinergic receptor P2X, ligand-gated ion channel, 7 (P2rx7), transcript variant 2, mRNA [NM_001038845]	0.39	0.005	0.154
Speer4d	NM_025759	ref Mus musculus spermatogenesis associated glutamate (E)-rich protein 4d (Speer4d), mRNA [NM_025759]	0.39	0.049	0.455
Ctps2	NM_018737	ref Mus musculus cytidine 5'-triphosphate synthase 2 (Ctps2), transcript variant 1, mRNA [NM_018737]	0.39	0.005	0.152

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Thsd7a	NM_001164805	ref Mus musculus thrombospondin, type I, domain containing 7A (Thsd7a), mRNA [NM_001164805]	0.39	0.011	0.224
Ftl2	NM_008049	ref Mus musculus ferritin light chain 2 (Ftl2), mRNA [NM_008049]	0.39	0.007	0.177
Phyhd1	NM_172267	ref Mus musculus phytanoyl-CoA dioxygenase domain containing 1 (Phyhd1), mRNA [NM_172267]	0.39	0.006	0.165
chr7:91558475-91733625_R	chr7:91558475-91733625_R	lincRNA:chr7:91558475-91733625 reverse strand	0.39	0.006	0.166
Pdk3	NM_145630	ref Mus musculus pyruvate dehydrogenase kinase, isoenzyme 3 (Pdk3), nuclear gene encoding mitochondrial protein, mRNA [NM_145630]	0.39	0.023	0.316
Rnf144b	NM_146042	ref Mus musculus ring finger protein 144B (Rnf144b), transcript variant 1, mRNA [NM_146042]	0.39	0.017	0.276
Ascl2	NM_008554	ref Mus musculus achaete-scute complex homolog 2 (Drosophila) (Ascl2), mRNA [NM_008554]	0.39	0.031	0.367
Pvt1	NR_003368	ref Mus musculus plasmacytoma variant translocation 1 (Pvt1), non-coding RNA [NR_003368]	0.39	0.028	0.353
chr5:108538417-108550517_F	chr5:108538417-108550517_F	lincRNA:chr5:108538417-108550517 forward strand	0.39	0.019	0.291
Eln	NM_007925	ref Mus musculus elastin (Eln), mRNA [NM_007925]	0.39	0.020	0.299
Nrap	NM_008733	ref Mus musculus nebulin-related anchoring protein (Nrap), transcript variant 2, mRNA [NM_008733]	0.39	0.001	0.067
Fstl4	NM_177059	ref Mus musculus follistatin-like 4 (Fstl4), mRNA [NM_177059]	0.39	0.042	0.422
Slc7a3	NM_007515	ref Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 3 (Slc7a3), mRNA [NM_007515]	0.39	0.010	0.212
chr7:99878349-99882258_R	chr7:99878349-99882258_R	lincRNA:chr7:99878349-99882258 reverse strand	0.39	0.048	0.452
ENSMUST00000095817	ENSMUST00000095817	ref PREDICTED: Mus musculus hypothetical protein LOC100039660 (LOC100039660), mRNA [XM_001473279]	0.39	0.046	0.443
Tmem202	NM_178388	ref Mus musculus transmembrane protein 202 (Tmem202), mRNA [NM_178388]	0.39	0.015	0.260
Col16a1	NM_028266	ref Mus musculus collagen, type XVI, alpha 1 (Col16a1), mRNA [NM_028266]	0.39	0.045	0.439
LOC100046627	XM_001476526	ref PREDICTED: Mus musculus hypothetical protein LOC100046627 (LOC100046627), mRNA [XM_001476526]	0.39	0.007	0.180
chr12:73860757-73862034_R	chr12:73860757-73862034_R	lincRNA:chr12:73860757-73862034 reverse strand	0.39	0.038	0.402
Irak3	NM_028679	ref Mus musculus interleukin-1 receptor-associated kinase 3 (Irak3), mRNA [NM_028679]	0.39	0.004	0.139
4930486L24Rik	NM_178098	ref Mus musculus RIKEN cDNA 4930486L24 gene (4930486L24Rik), mRNA [NM_178098]	0.39	0.016	0.272
9930021D14Rik	NM_175682	ref Mus musculus RIKEN cDNA 9930021D14 gene (9930021D14Rik), mRNA [NM_175682]	0.39	0.048	0.449
Slc38a1	NM_134086	ref Mus musculus solute carrier family 38, member 1 (Slc38a1), transcript variant 1, mRNA [NM_134086]	0.39	0.026	0.341
Dpep2	NM_176913	ref Mus musculus dipeptidase 2 (Dpep2), mRNA [NM_176913]	0.39	0.029	0.357
chr18:83087114-83122014_F	chr18:83087114-83122014_F	lincRNA:chr18:83087114-83122014 forward strand	0.39	0.023	0.319
chr5:33773842-33942967_F	chr5:33773842-33942967_F	lincRNA:chr5:33773842-33942967 forward strand	0.38	0.034	0.384
Pcdhb13	NM_053138	ref Mus musculus protocadherin beta 13 (Pcdhb13), mRNA [NM_053138]	0.38	0.022	0.310
ENSMUST00000115706	ENSMUST00000115706	ens YdjC homolog (bacterial) Gene [Source:MGI (curated);Acc:MGI:1916351] [ENSMUST00000115706]	0.38	0.041	0.421
Snnp35	NM_029532	ref Mus musculus small nuclear ribonucleoprotein 35 (U11/U12) (Snnp35), mRNA [NM_029532]	0.38	0.007	0.174

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Arl8a	NM_026823	ref Mus musculus ADP-ribosylation factor-like 8A (Arl8a), mRNA [NM_026823]	0.38	0.001	0.066
ENSMUST00000050386	ENSMUST00000050386	ens Brain cDNA, clone MNCb-1768cDNA sequence AB041803 ; [Source:UniProtKB/TrEMBL;Acc:Q8K5E3] [ENSMUST00000050386]	0.38	0.035	0.391
Agpat9	NM_172715	ref Mus musculus 1-acylglycerol-3-phosphate O-acyltransferase 9 (Agpat9), transcript variant 1, mRNA [NM_172715]	0.38	0.004	0.129
Tlx2	NM_009392	ref Mus musculus T-cell leukemia, homeobox 2 (Tlx2), mRNA [NM_009392]	0.38	0.044	0.432
Lce1d	NM_027137	ref Mus musculus late cornified envelope 1D (Lce1d), mRNA [NM_027137]	0.38	0.047	0.447
Pcdh7	NM_018764	ref Mus musculus protocadherin 7 (Pcdh7), transcript variant 2, mRNA [NM_018764]	0.38	0.015	0.260
Mafb	NM_010658	ref Mus musculus v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian) (Mafb), mRNA [NM_010658]	0.38	0.013	0.245
1700120C14Rik	BX512981	gb BX512981 Soares mouse p3NMF19.5 Mus musculus cDNA clone IMAGEp998M041174 ; IMAGE:493227, mRNA sequence [BX512981]	0.38	0.003	0.114
chr3:90427029-90427674_F	chr3:90427029-90427674_F	lincRNA:chr3:90427029-90427674 forward strand	0.38	0.032	0.374
LOC100045679	XM_001474939	ref PREDICTED: Mus musculus hypothetical protein LOC100045679 (LOC100045679), mRNA [XM_001474939]	0.38	0.005	0.154
Edn1	NM_010104	ref Mus musculus endothelin 1 (Edn1), mRNA [NM_010104]	0.38	0.039	0.412
Cttnbp2nl	NM_030249	ref Mus musculus CTTNBP2 N-terminal like (Cttnbp2nl), transcript variant 1, mRNA [NM_030249]	0.38	0.006	0.170
Sdccag3	NM_026563	ref Mus musculus serologically defined colon cancer antigen 3 (Sdccag3), transcript variant 1, mRNA [NM_026563]	0.38	0.032	0.373
Xirp2	NM_001024618	ref Mus musculus xin actin-binding repeat containing 2 (Xirp2), transcript variant 1, mRNA [NM_001024618]	0.38	0.021	0.306
ENSMUST00000035629	ENSMUST00000035629	gb Mus musculus activated spleen cDNA, RIKEN full-length enriched library, clone:F830009N17 product:hypothetical protein, full insert sequence. [AK171768]	0.38	0.005	0.154
Slc27a5	NM_009512	ref Mus musculus solute carrier family 27 (fatty acid transporter), member 5 (Slc27a5), mRNA [NM_009512]	0.38	0.009	0.202
ENSMUST00000091506	ENSMUST00000091506	ref PREDICTED: Mus musculus similar to ribosomal protein S28 (LOC100045642), mRNA [XM_001474102]	0.38	0.010	0.208
Atf4	NM_009716	ref Mus musculus activating transcription factor 4 (Atf4), mRNA [NM_009716]	0.38	0.004	0.131
chr1:175654606-175672031_R	chr1:175654606-175672031_R	lincRNA:chr1:175654606-175672031 reverse strand	0.38	0.008	0.184
4833405L11Rik	XM_001003488	ref PREDICTED: Mus musculus RIKEN cDNA 4833405L11 gene (4833405L11Rik), mRNA [XM_001003488]	0.38	0.009	0.201
Otud1	NM_027715	ref Mus musculus OTU domain containing 1 (Otud1), mRNA [NM_027715]	0.38	0.011	0.221
Lpar1	NM_172989	ref Mus musculus lysophosphatidic acid receptor 1 (Lpar1), transcript variant 2, mRNA [NM_172989]	0.38	0.025	0.332
Gm2621	XM_001474140	ref PREDICTED: Mus musculus similar to steroid-binding protein C1 (LOC100040137), mRNA [XM_001474140]	0.38	0.046	0.444
chr5:22887983-22939658_R	chr5:22887983-22939658_R	lincRNA:chr5:22887983-22939658 reverse strand	0.38	0.014	0.258
chr1:71730016-71740391_R	chr1:71730016-71740391_R	lincRNA:chr1:71730016-71740391 reverse strand	0.38	0.021	0.309
Kng1	NM_023125	ref Mus musculus kininogen 1 (Kng1), transcript variant 2, mRNA [NM_023125]	0.38	0.019	0.288
Pfkfb	NM_019703	ref Mus musculus phosphofructokinase, platelet (Pfkfb), mRNA [NM_019703]	0.38	0.005	0.143

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Ang3	NM_001123394	ref Mus musculus angiogenin, ribonuclease A family, member 3 (Ang3), mRNA [NM_001123394]	0.38	0.015	0.259
Lamc2	NM_008485	ref Mus musculus laminin, gamma 2 (Lamc2), mRNA [NM_008485]	0.38	0.004	0.137
Pld1	NM_001164056	ref Mus musculus phospholipase D1 (Pld1), transcript variant 1, mRNA [NM_001164056]	0.38	0.016	0.272
chr6:131263850-131314850_F	chr6:131263850-131314850_F	lincRNA:chr6:131263850-131314850 forward strand	0.38	0.017	0.279
Sema6b	NM_013662	ref Mus musculus sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B (Sema6b), transcript variant 1, mRNA [NM_013662]	0.38	0.020	0.295
chr1:183832694-183834125_R	chr1:183832694-183834125_R	lincRNA:chr1:183832694-183834125 reverse strand	0.38	0.005	0.154
Nfatc1	NM_016791	ref Mus musculus nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 (Nfatc1), transcript variant 1, mRNA [NM_016791]	0.38	0.041	0.421
Slc1a5	NM_009201	ref Mus musculus solute carrier family 1 (neutral amino acid transporter), member 5 (Slc1a5), mRNA [NM_009201]	0.37	0.002	0.099
Slc25a25	NM_146118	ref Mus musculus solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 25 (Slc25a25), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_146118]	0.37	0.005	0.147
ENSMUST00000094541	ENSMUST00000094541	Unknown	0.37	0.026	0.342
Gm1574	NM_001005422	ref Mus musculus predicted gene 1574 (Gm1574), mRNA [NM_001005422]	0.37	0.016	0.267
chr13:75921214-75923024_F	chr13:75921214-75923024_F	lincRNA:chr13:75921214-75923024 forward strand	0.37	0.042	0.422
Susd2	NM_027890	ref Mus musculus sushi domain containing 2 (Susd2), transcript variant 1, mRNA [NM_027890]	0.37	0.014	0.255
B4galt4	NM_019804	ref Mus musculus UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 4 (B4galt4), mRNA [NM_019804]	0.37	0.008	0.193
B4galt4	NM_019804	ref Mus musculus UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 4 (B4galt4), mRNA [NM_019804]	0.37	0.035	0.391
chr6:50339188-50409363_F	chr6:50339188-50409363_F	lincRNA:chr6:50339188-50409363 forward strand	0.37	0.047	0.446
Ambp	NM_007443	ref Mus musculus alpha 1 microglobulin/bikunin (Ambp), mRNA [NM_007443]	0.37	0.008	0.189
Gm6517	XR_033841	ref PREDICTED: Mus musculus similar to MGC69457 protein (LOC624662), misc RNA [XR_033841]	0.37	0.001	0.074
Cpa3	NM_007753	ref Mus musculus carboxypeptidase A3, mast cell (Cpa3), mRNA [NM_007753]	0.37	0.024	0.329
Pde4dip	NM_178080	ref Mus musculus phosphodiesterase 4D interacting protein (myomegalin) (Pde4dip), transcript variant 2, mRNA [NM_178080]	0.37	0.009	0.205
Olf869	NM_146557	ref Mus musculus olfactory receptor 869 (Olf869), mRNA [NM_146557]	0.37	0.049	0.454
Pde1a	NM_001009978	ref Mus musculus phosphodiesterase 1A, calmodulin-dependent (Pde1a), transcript variant 7, mRNA [NM_001009978]	0.37	0.009	0.201
Olfml1	NM_172907	ref Mus musculus olfactomedin-like 1 (Olfml1), mRNA [NM_172907]	0.37	0.049	0.455
Gm6372	XR_030987	ref PREDICTED: Mus musculus similar to microsomal glutathione S-transferase 3 (LOC622952), misc RNA [XR_030987]	0.37	0.002	0.096
Gm5860	XM_622347	ref PREDICTED: Mus musculus predicted gene, EG545641 (EG545641), mRNA [XM_622347]	0.37	0.003	0.109
Il21r	NM_021887	ref Mus musculus interleukin 21 receptor (Il21r), mRNA [NM_021887]	0.37	0.045	0.440

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
ENSMUST00000114742	ENSMUST00000114742	ens forkhead box R1 Gene [Source:MGI Symbol;Acc:MGI:2685961] [ENSMUST00000114742]	0.37	0.002	0.096
chr3:88323145-88335770_F	chr3:88323145-88335770_F	lincRNA:chr3:88323145-88335770 forward strand	0.37	0.035	0.389
chr3:90425270-90435820_R	chr3:90425270-90435820_R	lincRNA:chr3:90425270-90435820 reverse strand	0.37	0.033	0.376
chr18:75513062-75523889_R	chr18:75513062-75523889_R	lincRNA:chr18:75513062-75523889 reverse strand	0.37	0.050	0.457
Olfr1140	NM_146642	ref Mus musculus olfactory receptor 1140 (Olfr1140), mRNA [NM_146642]	0.37	0.043	0.428
Mbd5	XM_001476481	ref PREDICTED: Mus musculus hypothetical protein LOC100041508 (LOC100041508), mRNA [XM_001476481]	0.37	0.027	0.348
chr10:24269317-24270145_R	chr10:24269317-24270145_R	lincRNA:chr10:24269317-24270145 reverse strand	0.37	0.037	0.400
LOC100048309	XM_001479990	ref PREDICTED: Mus musculus similar to interferon activated gene 204 (LOC100048309), mRNA [XM_001479990]	0.37	0.013	0.246
chr13:37633225-37640309_F	chr13:37633225-37640309_F	lincRNA:chr13:37633225-37640309 forward strand	0.37	0.040	0.413
Pdlim5	NM_019809	ref Mus musculus PDZ and LIM domain 5 (Pdlim5), transcript variant 2, mRNA [NM_019809]	0.37	0.017	0.278
2310016C08Rik	NM_023516	ref Mus musculus RIKEN cDNA 2310016C08 gene (2310016C08Rik), transcript variant 2, mRNA [NM_023516]	0.37	0.001	0.067
Cypt12	NM_029289	ref Mus musculus cysteine-rich perinuclear theca 12 (Cypt12), mRNA [NM_029289]	0.37	0.041	0.420
Nmur1	NM_010341	ref Mus musculus neuromedin U receptor 1 (Nmur1), mRNA [NM_010341]	0.37	0.021	0.304
chr14:77006215-77063293_R	chr14:77006215-77063293_R	lincRNA:chr14:77006215-77063293 reverse strand	0.37	0.039	0.409
Gm2403	XR_031386	ref PREDICTED: Mus musculus similar to LOC434536 protein (LOC100039749), misc RNA [XR_031386]	0.37	0.041	0.422
Chpf2	NM_133913	ref Mus musculus chondroitin polymerizing factor 2 (Chpf2), mRNA [NM_133913]	0.36	0.008	0.189
Rdh11	NM_021557	ref Mus musculus retinol dehydrogenase 11 (Rdh11), mRNA [NM_021557]	0.36	0.003	0.123
chr6:052032838-052033444	chr6:052032838-052033444	lincRNA:chr6:052032838-052033444 forward strand	0.36	0.049	0.456
Slc12a8	NM_134251	ref Mus musculus solute carrier family 12 (potassium/chloride transporters), member 8 (Slc12a8), transcript variant 1, mRNA [NM_134251]	0.36	0.033	0.376
chr14:44151048-44156924_R	chr14:44151048-44156924_R	lincRNA:chr14:44151048-44156924 reverse strand	0.36	0.012	0.237
chr5:144517700-144526071_R	chr5:144517700-144526071_R	lincRNA:chr5:144517700-144526071 reverse strand	0.36	0.031	0.368
Sdccag8	NM_029756	ref Mus musculus serologically defined colon cancer antigen 8 (Sdccag8), mRNA [NM_029756]	0.36	0.032	0.373
Nuak1	NM_001004363	ref Mus musculus NUAKE family, SNF1-like kinase, 1 (Nuak1), mRNA [NM_001004363]	0.36	0.002	0.100
4930417M19Rik	NM_177195	ref Mus musculus RIKEN cDNA 4930417M19 gene (4930417M19Rik), mRNA [NM_177195]	0.36	0.036	0.391
LOC634184	XM_908838	ref PREDICTED: Mus musculus similar to T-cell receptor alpha precursor (LOC634184), mRNA [XM_908838]	0.36	0.037	0.398
Ybx1	NM_011732	ref Mus musculus Y box protein 1 (Ybx1), mRNA [NM_011732]	0.36	0.012	0.231
Pla1a	NM_134102	ref Mus musculus phospholipase A1 member A (Pla1a), mRNA [NM_134102]	0.36	0.014	0.252
Trim2	NM_030706	ref Mus musculus tripartite motif-containing 2 (Trim2), mRNA [NM_030706]	0.36	0.022	0.311
Nt5e	NM_011851	ref Mus musculus 5' nucleotidase, ecto (Nt5e), mRNA [NM_011851]	0.36	0.022	0.312

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
2310057M21Rik	NM_026655	ref Mus musculus RIKEN cDNA 2310057M21 gene (2310057M21Rik), mRNA [NM_026655]	0.36	0.007	0.182
Fxyd4	NM_033648	ref Mus musculus FXYD domain-containing ion transport regulator 4 (Fxyd4), transcript variant 1, mRNA [NM_033648]	0.36	0.007	0.179
Gm16476	XM_001480493	ref PREDICTED: Mus musculus similar to development and differentiation enhancing factor 2 (LOC100043377), mRNA [XM_001480493]	0.36	0.032	0.372
chr10:6480075-6603900_F	chr10:6480075-6603900_F	lincRNA:chr10:6480075-6603900 forward strand	0.36	0.046	0.445
Tbck	AK085971	gb Mus musculus 16 days neonate heart cDNA, RIKEN full-length enriched library, clone:D830035P19 product:Hypothetical leucine-rich region containing protein, full insert sequence. [AK085971]	0.36	0.048	0.450
Slco2b1	NM_175316	ref Mus musculus solute carrier organic anion transporter family, member 2b1 (Slco2b1), mRNA [NM_175316]	0.36	0.010	0.216
Srms	NM_011481	ref Mus musculus src-related kinase lacking C-terminal regulatory tyrosine and N-terminal myristylation sites (Srms), mRNA [NM_011481]	0.36	0.005	0.149
Tmbim1	NM_027154	ref Mus musculus transmembrane BAX inhibitor motif containing 1 (Tmbim1), mRNA [NM_027154]	0.36	0.005	0.155
Lsp1	NM_019391	ref Mus musculus lymphocyte specific 1 (Lsp1), transcript variant 2, mRNA [NM_019391]	0.36	0.039	0.409
chr19:5771425-5848475_F	chr19:5771425-5848475_F	lincRNA:chr19:5771425-5848475 forward strand	0.36	0.044	0.434
chr5:25168628-25185353_F	chr5:25168628-25185353_F	lincRNA:chr5:25168628-25185353 forward strand	0.36	0.036	0.395
Dram1	NM_027878	ref Mus musculus DNA-damage regulated autophagy modulator 1 (Dram1), mRNA [NM_027878]	0.36	0.033	0.379
ENSMUST0000005957	ENSMUST0000005957	ref PREDICTED: Mus musculus predicted gene, EG383891 (EG383891), mRNA [XM_357312]	0.36	0.019	0.294
Anks1b	NM_001128086	ref Mus musculus ankyrin repeat and sterile alpha motif domain containing 1B (Anks1b), transcript variant 1, mRNA [NM_001128086]	0.36	0.043	0.428
Gstcd	NM_026231	ref Mus musculus glutathione S-transferase, C-terminal domain containing (Gstcd), mRNA [NM_026231]	0.36	0.040	0.414
Olf952	NM_146503	ref Mus musculus olfactory receptor 952 (Olf952), mRNA [NM_146503]	0.36	0.031	0.368
Mtmr10	NM_172742	ref Mus musculus myotubularin related protein 10 (Mtmr10), mRNA [NM_172742]	0.36	0.019	0.288
chr16:25517037-25531362_F	chr16:25517037-25531362_F	lincRNA:chr16:25517037-25531362 forward strand	0.36	0.050	0.457
Msmg	NM_001099314	ref Mus musculus microseminoprotein, prostate associated (Msmg), mRNA [NM_001099314]	0.36	0.010	0.213
Dnase1l2	NM_025718	ref Mus musculus deoxyribonuclease 1-like 2 (Dnase1l2), mRNA [NM_025718]	0.36	0.021	0.304
chr17:71242333-71273533_F	chr17:71242333-71273533_F	lincRNA:chr17:71242333-71273533 forward strand	0.36	0.019	0.288
Ick	NM_019987	ref Mus musculus intestinal cell kinase (Ick), transcript variant 2, mRNA [NM_019987]	0.36	0.043	0.428
Gm4468	XR_034019	ref PREDICTED: Mus musculus similar to ribosomal protein L37 (LOC100047378), misc RNA [XR_034019]	0.36	0.047	0.446
Creb3l2	NM_178661	ref Mus musculus cAMP responsive element binding protein 3-like 2 (Creb3l2), mRNA [NM_178661]	0.36	0.006	0.157
Atxn10	NM_016843	ref Mus musculus ataxin 10 (Atxn10), mRNA [NM_016843]	0.36	0.022	0.315
chr2:75444518-75497268_F	chr2:75444518-75497268_F	lincRNA:chr2:75444518-75497268 forward strand	0.36	0.044	0.436
Star	NM_011485	ref Mus musculus steroidogenic acute regulatory protein (Star), nuclear gene encoding mitochondrial protein, mRNA [NM_011485]	0.36	0.007	0.176

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr17:88466300-88495175_F	chr17:88466300-88495175_F	lincRNA:chr17:88466300-88495175 forward strand	0.36	0.043	0.429
Mgst3	NM_025569	ref Mus musculus microsomal glutathione S-transferase 3 (Mgst3), mRNA [NM_025569]	0.35	0.005	0.154
BC053749	NM_183321	ref Mus musculus cDNA sequence BC053749 (BC053749), mRNA [NM_183321]	0.35	0.003	0.118
Slc13a4	NM_172892	ref Mus musculus solute carrier family 13 (sodium/sulfate symporters), member 4 (Slc13a4), mRNA [NM_172892]	0.35	0.038	0.406
chr11:68200716-68214458_R	chr11:68200716-68214458_R	lincRNA:chr11:68200716-68214458 reverse strand	0.35	0.049	0.453
ENSMUST00000035327	ENSMUST00000035327	ens RIKEN cDNA 4930529M08 gene Gene [Source:MGI Symbol;Acc:MGI:1926024] [ENSMUST00000035327]	0.35	0.016	0.273
Cpm	NM_027468	ref Mus musculus carboxypeptidase M (Cpm), mRNA [NM_027468]	0.35	0.026	0.337
ENSMUST00000051043	ENSMUST00000051043	ens RIKEN cDNA C130073F10 gene Gene [Source:MGI Symbol;Acc:MGI:3045359] [ENSMUST00000051043]	0.35	0.017	0.278
Celsr3	NM_080437	ref Mus musculus cadherin, EGF LAG seven-pass G-type receptor 3 (flamingo homolog, Drosophila) (Celsr3), mRNA [NM_080437]	0.35	0.042	0.424
Nfe2l2	NM_010902	ref Mus musculus nuclear factor, erythroid derived 2, like 2 (Nfe2l2), mRNA [NM_010902]	0.35	0.010	0.208
Spns2	NM_153060	ref Mus musculus spinster homolog 2 (Drosophila) (Spns2), mRNA [NM_153060]	0.35	0.018	0.282
Gm7660	XR_031289	ref PREDICTED: Mus musculus similar to UDP glucuronosyltransferase 2 family, polypeptide B36 (LOC665494), misc RNA [XR_031289]	0.35	0.028	0.350
1810032O08Rik	NR_027821	ref Mus musculus RIKEN cDNA 1810032O08 gene (1810032O08Rik), transcript variant 3, non-coding RNA [NR_027821]	0.35	0.002	0.099
Zbtb26	NM_199025	ref Mus musculus zinc finger and BTB domain containing 26 (Zbtb26), mRNA [NM_199025]	0.35	0.045	0.438
Pi4k2b	NM_025951	ref Mus musculus phosphatidylinositol 4-kinase type 2 beta (Pi4k2b), transcript variant 1, mRNA [NM_025951]	0.35	0.010	0.213
Ly6a	NM_010738	ref Mus musculus lymphocyte antigen 6 complex, locus A (Ly6a), mRNA [NM_010738]	0.35	0.006	0.162
Cdc25b	NM_023117	ref Mus musculus cell division cycle 25 homolog B (S. pombe) (Cdc25b), transcript variant 1, mRNA [NM_023117]	0.35	0.007	0.176
4921528I07Rik	XM_912353	ref PREDICTED: Mus musculus RIKEN cDNA 4921528I07 gene (4921528I07Rik), mRNA [XM_912353]	0.35	0.045	0.439
Socs2	NM_007706	ref Mus musculus suppressor of cytokine signaling 2 (Socs2), transcript variant 1, mRNA [NM_007706]	0.35	0.007	0.178
Pdlim7	NM_001114088	ref Mus musculus PDZ and LIM domain 7 (Pdlim7), transcript variant a, mRNA [NM_001114088]	0.35	0.003	0.113
Pros1	NM_011173	ref Mus musculus protein S (alpha) (Pros1), mRNA [NM_011173]	0.35	0.005	0.148
LOC100047802	XM_001478887	ref PREDICTED: Mus musculus hypothetical protein LOC100047802 (LOC100047802), mRNA [XM_001478887]	0.35	0.033	0.380
Tmem176b	NM_023056	ref Mus musculus transmembrane protein 176B (Tmem176b), transcript variant 1, mRNA [NM_023056]	0.35	0.032	0.374
chr2:94017095-94019092_R	chr2:94017095-94019092_R	lincRNA:chr2:94017095-94019092 reverse strand	0.35	0.045	0.439
Tnxb	NM_031176	ref Mus musculus tenascin XB (Tnxb), mRNA [NM_031176]	0.35	0.043	0.428
Mil2	NM_001033276	ref Mus musculus myeloid/lymphoid or mixed-lineage leukemia 2 (Mil2), mRNA [NM_001033276]	0.35	0.023	0.322
chr1:183832694-183834125_R	chr1:183832694-183834125_R	lincRNA:chr1:183832694-183834125 reverse strand	0.35	0.006	0.166
Serinc3	NM_012032	ref Mus musculus serine incorporator 3 (Serinc3), mRNA [NM_012032]	0.35	0.048	0.449

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr13:112717680-112733330_F	chr13:112717680-112733330_F	lincRNA:chr13:112717680-112733330 forward strand	0.35	0.034	0.380
Snx4	NM_080557	ref Mus musculus sorting nexin 4 (Snx4), mRNA [NM_080557]	0.35	0.018	0.287
Elttd1	NM_133222	ref Mus musculus EGF, latrophilin seven transmembrane domain containing 1 (Elttd1), mRNA [NM_133222]	0.35	0.021	0.303
Tbx20	NM_020496	ref Mus musculus T-box 20 (Tbx20), transcript variant 2, mRNA [NM_020496]	0.35	0.013	0.245
Eps8	NM_007945	ref Mus musculus epidermal growth factor receptor pathway substrate 8 (Eps8), mRNA [NM_007945]	0.35	0.020	0.295
chr6:99472981-99484210_R	chr6:99472981-99484210_R	lincRNA:chr6:99472981-99484210 reverse strand	0.35	0.024	0.327
chr12:110944403-110988678_F	chr12:110944403-110988678_F	lincRNA:chr12:110944403-110988678 forward strand	0.35	0.036	0.394
Clnk	NM_013748	ref Mus musculus cytokine-dependent hematopoietic cell linker (Clnk), mRNA [NM_013748]	0.35	0.024	0.325
Uap1	NM_133806	ref Mus musculus UDP-N-acetylglucosamine pyrophosphorylase 1 (Uap1), mRNA [NM_133806]	0.35	0.022	0.314
ENSMUST00000106702	ENSMUST00000106702	ens guanine nucleotide binding protein, alpha 13 Gene [Source:MGI (curated);Acc:MGI:95768] [ENSMUST00000106702]	0.34	0.006	0.166
C1qtnf1	NM_019959	ref Mus musculus C1q and tumor necrosis factor related protein 1 (C1qtnf1), mRNA [NM_019959]	0.34	0.004	0.134
chr12:73860757-73862034_R	chr12:73860757-73862034_R	lincRNA:chr12:73860757-73862034 reverse strand	0.34	0.032	0.373
Slco5a1	NM_172841	ref Mus musculus solute carrier organic anion transporter family, member 5A1 (Slco5a1), mRNA [NM_172841]	0.34	0.029	0.354
Midn	NM_021565	ref Mus musculus midnolin (Midn), mRNA [NM_021565]	0.34	0.028	0.348
ENSMUST0000023246	ENSMUST0000023246	ens lymphocyte antigen 6 complex, locus G Gene [Source:MGI Symbol;Acc:MGI:109440] [ENSMUST0000023246]	0.34	0.034	0.385
Mustn1	NM_181390	ref Mus musculus musculoskeletal, embryonic nuclear protein 1 (Mustn1), mRNA [NM_181390]	0.34	0.022	0.315
Fcgr4	NM_144559	ref Mus musculus Fc receptor, IgG, low affinity IV (Fcgr4), mRNA [NM_144559]	0.34	0.017	0.279
Ube2g2	NM_019803	ref Mus musculus ubiquitin-conjugating enzyme E2G 2 (Ube2g2), mRNA [NM_019803]	0.34	0.023	0.316
Gm9915	ENSMUST00000066196	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q8C7Y0] [ENSMUST00000066196]	0.34	0.007	0.178
Dnajb4	NM_027287	ref Mus musculus DnaJ (Hsp40) homolog, subfamily B, member 4 (Dnajb4), mRNA [NM_027287]	0.34	0.005	0.145
chr1:94077221-94091396_R	chr1:94077221-94091396_R	lincRNA:chr1:94077221-94091396 reverse strand	0.34	0.023	0.321
Pemt	NM_008819	ref Mus musculus phosphatidylethanolamine N-methyltransferase (Pemt), nuclear gene encoding mitochondrial protein, mRNA [NM_008819]	0.34	0.011	0.225
Smad6	NM_008542	ref Mus musculus MAD homolog 6 (Drosophila) (Smad6), mRNA [NM_008542]	0.34	0.014	0.254
Napb	NM_019632	ref Mus musculus N-ethylmaleimide sensitive fusion protein attachment protein beta (Napb), mRNA [NM_019632]	0.34	0.004	0.141
Maged2	NM_030700	ref Mus musculus melanoma antigen, family D, 2 (Maged2), mRNA [NM_030700]	0.34	0.008	0.191
chr15:10363330-10371830_F	chr15:10363330-10371830_F	lincRNA:chr15:10363330-10371830 forward strand	0.34	0.021	0.304
chr2:176908707-176991202_R	chr2:176908707-176991202_R	lincRNA:chr2:176908707-176991202 reverse strand	0.34	0.026	0.335
Lin7a	NM_001039354	ref Mus musculus lin-7 homolog A (C. elegans) (Lin7a), transcript variant 1, mRNA [NM_001039354]	0.34	0.041	0.422

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr8:26343277-26352902_F	chr8:26343277-26352902_F	lincRNA:chr8:26343277-26352902 forward strand	0.34	0.009	0.195
Slc1a5	NM_009201	ref Mus musculus solute carrier family 1 (neutral amino acid transporter), member 5 (Slc1a5), mRNA [NM_009201]	0.34	0.015	0.263
Cdc42bpa	NM_001033285	ref Mus musculus CDC42 binding protein kinase alpha (Cdc42bpa), mRNA [NM_001033285]	0.34	0.007	0.179
LOC100047967	XR_034463	ref PREDICTED: Mus musculus similar to growth arrest-specific 2 like 3 (LOC100047967), misc RNA [XR_034463]	0.34	0.017	0.279
Xbp1	NM_013842	ref Mus musculus X-box binding protein 1 (Xbp1), mRNA [NM_013842]	0.34	0.010	0.208
Kcnk6	NM_001033525	ref Mus musculus potassium inwardly-rectifying channel, subfamily K, member 6 (Kcnk6), mRNA [NM_001033525]	0.34	0.004	0.138
chr15:58928225-58939975_R	chr15:58928225-58939975_R	lincRNA:chr15:58928225-58939975 reverse strand	0.34	0.035	0.387
Mgst3	NM_025569	ref Mus musculus microsomal glutathione S-transferase 3 (Mgst3), mRNA [NM_025569]	0.34	0.001	0.060
Rsph6a	NM_031255	ref Mus musculus radial spoke head 6 homolog A (Chlamydomonas) (Rsph6a), transcript variant 1, mRNA [NM_031255]	0.34	0.021	0.304
chr18:5162836-5165729_R	chr18:5162836-5165729_R	lincRNA:chr18:5162836-5165729 reverse strand	0.34	0.027	0.343
Cpt1c	NM_153679	ref Mus musculus carnitine palmitoyltransferase 1c (Cpt1c), mRNA [NM_153679]	0.34	0.031	0.368
chr17:15357376-15385701_F	chr17:15357376-15385701_F	lincRNA:chr17:15357376-15385701 forward strand	0.34	0.042	0.423
chr13:23519843-23522887_R	chr13:23519843-23522887_R	lincRNA:chr13:23519843-23522887 reverse strand	0.34	0.037	0.398
LOC636328	XM_922121	ref PREDICTED: Mus musculus hypothetical LOC636328 (LOC636328), mRNA [XM_922121]	0.34	0.044	0.432
chr18:78190463-78235438_R	chr18:78190463-78235438_R	lincRNA:chr18:78190463-78235438 reverse strand	0.34	0.046	0.444
3830612M24	AK028406	gb Mus musculus 18 days pregnant adult female placenta and extra embryonic tissue cDNA, RIKEN full-length enriched library, clone:3830612M24 product:unclassifiable, full insert sequence. [AK028406]	0.34	0.016	0.272
Zfyve28	ENSMUST00000094868	ens zinc finger, FYVE domain containing 28 Gene [Source:MGI (curated);Acc:MGI:2684992] [ENSMUST00000094868]	0.34	0.048	0.450
ENSMUST00000089689	ENSMUST00000089689	Unknown	0.34	0.041	0.420
chr15:32167516-32174417_R	chr15:32167516-32174417_R	lincRNA:chr15:32167516-32174417 reverse strand	0.34	0.033	0.380
Clec18a	NM_181549	ref Mus musculus C-type lectin domain family 18, member A (Clec18a), mRNA [NM_181549]	0.34	0.050	0.457
chr17:22332475-22362150_F	chr17:22332475-22362150_F	lincRNA:chr17:22332475-22362150 forward strand	0.34	0.033	0.376
Adarb1	NM_001024837	ref Mus musculus adenosine deaminase, RNA-specific, B1 (Adarb1), transcript variant 2, mRNA [NM_001024837]	0.34	0.009	0.203
Lzts2	NM_145503	ref Mus musculus leucine zipper, putative tumor suppressor 2 (Lzts2), transcript variant 1, mRNA [NM_145503]	0.33	0.014	0.256
Vit	NM_028813	ref Mus musculus vitrin (Vit), mRNA [NM_028813]	0.33	0.006	0.161
Rhoj	NM_023275	ref Mus musculus ras homolog gene family, member J (Rhoj), mRNA [NM_023275]	0.33	0.006	0.157
Ror2	NM_013846	ref Mus musculus receptor tyrosine kinase-like orphan receptor 2 (Ror2), mRNA [NM_013846]	0.33	0.016	0.273
Grk4	NM_019497	ref Mus musculus G protein-coupled receptor kinase 4 (Grk4), transcript variant 1, mRNA [NM_019497]	0.33	0.033	0.377

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Fscn3	NM_019569	ref Mus musculus fascin homolog 3, actin-bundling protein, testicular (Strongylocentrotus purpuratus) (Fscn3), mRNA [NM_019569]	0.33	0.043	0.429
Sema7a	NM_011352	ref Mus musculus sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A (Sema7a), mRNA [NM_011352]	0.33	0.034	0.383
Rnf19b	ENSMUST00000030584	ens ring finger protein 19B Gene [Source:MGI (curated);Acc:MGI:1922484] [ENSMUST00000030584]	0.33	0.010	0.212
Runx1	NM_001111022	ref Mus musculus runt related transcription factor 1 (Runx1), transcript variant 2, mRNA [NM_001111022]	0.33	0.025	0.332
Acsf2	NM_153807	ref Mus musculus acyl-CoA synthetase family member 2 (Acsf2), mRNA [NM_153807]	0.33	0.018	0.283
Krtdap	NM_001033131	ref Mus musculus keratinocyte differentiation associated protein (Krtdap), mRNA [NM_001033131]	0.33	0.032	0.373
Ltbp3	NM_008520	ref Mus musculus latent transforming growth factor beta binding protein 3 (Ltbp3), mRNA [NM_008520]	0.33	0.004	0.138
Svs3a	NM_021363	ref Mus musculus seminal vesicle secretory protein 3A (Svs3a), mRNA [NM_021363]	0.33	0.031	0.369
Akap2	NM_001035533	ref Mus musculus A kinase (PRKA) anchor protein 2 (Akap2), transcript variant 1, mRNA [NM_001035533]	0.33	0.014	0.249
Napepld	NM_178728	ref Mus musculus N-acyl phosphatidylethanolamine phospholipase D (Napepld), mRNA [NM_178728]	0.33	0.008	0.184
H6pd	NM_173371	ref Mus musculus hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6pd), mRNA [NM_173371]	0.33	0.002	0.104
Plbd2	NM_023625	ref Mus musculus phospholipase B domain containing 2 (Plbd2), mRNA [NM_023625]	0.33	0.003	0.106
Inpp5d	NM_010566	ref Mus musculus inositol polyphosphate-5-phosphatase D (Inpp5d), transcript variant 1, mRNA [NM_010566]	0.33	0.029	0.358
chr17:13008796-13023201_F	chr17:13008796-13023201_F	lincRNA:chr17:13008796-13023201 forward strand	0.33	0.021	0.308
Scpep1	BC021399	gb Mus musculus serine carboxypeptidase 1, mRNA (cDNA clone MGC:29291 IMAGE:4193674), complete cds. [BC021399]	0.33	0.026	0.335
Enah	NM_010135	ref Mus musculus enabled homolog (Drosophila) (Enah), transcript variant 1, mRNA [NM_010135]	0.33	0.011	0.226
Etv4	NM_008815	ref Mus musculus ets variant gene 4 (E1A enhancer binding protein, E1AF) (Etv4), mRNA [NM_008815]	0.33	0.029	0.353
Rrp12	NM_199447	ref Mus musculus ribosomal RNA processing 12 homolog (S. cerevisiae) (Rrp12), mRNA [NM_199447]	0.33	0.007	0.175
Plvap	NM_032398	ref Mus musculus plasmalemma vesicle associated protein (Plvap), mRNA [NM_032398]	0.33	0.024	0.328
Socs2	NM_007706	ref Mus musculus suppressor of cytokine signaling 2 (Socs2), transcript variant 1, mRNA [NM_007706]	0.33	0.013	0.244
Plxdc2	NM_026162	ref Mus musculus plexin domain containing 2 (Plxdc2), mRNA [NM_026162]	0.33	0.002	0.081
Sprr2f	NM_011472	ref Mus musculus small proline-rich protein 2F (Sprr2f), mRNA [NM_011472]	0.33	0.023	0.316
Rfxank	NM_011266	ref Mus musculus regulatory factor X-associated ankyrin-containing protein (Rfxank), transcript variant 1, mRNA [NM_011266]	0.33	0.003	0.123
Slc11a1	NM_013612	ref Mus musculus solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1 (Slc11a1), mRNA [NM_013612]	0.33	0.012	0.235
chr8:26343277-26352902_F	chr8:26343277-26352902_F	lincRNA:chr8:26343277-26352902 forward strand	0.33	0.024	0.323
Pdlim2	NM_145978	ref Mus musculus PDZ and LIM domain 2 (Pdlim2), mRNA [NM_145978]	0.33	0.016	0.268
Eya2	NM_010165	ref Mus musculus eyes absent 2 homolog (Drosophila) (Eya2), mRNA [NM_010165]	0.33	0.036	0.392
chr17:22862669-22872347_F	chr17:22862669-22872347_F	lincRNA:chr17:22862669-22872347 forward strand	0.33	0.049	0.455
chr17:13008796-13023201_F	chr17:13008796-13023201_F	lincRNA:chr17:13008796-13023201 forward strand	0.33	0.016	0.274

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
Gm5480	XM_488763	ref PREDICTED: Mus musculus predicted gene, EG432995 (EG432995), mRNA [XM_488763]	0.33	0.027	0.347
Gstm4	NM_026764	ref Mus musculus glutathione S-transferase, mu 4 (Gstm4), transcript variant 1, mRNA [NM_026764]	0.33	0.016	0.274
Mtap1a	NM_032393	ref Mus musculus microtubule-associated protein 1 A (Mtap1a), transcript variant 1, mRNA [NM_032393]	0.33	0.043	0.430
Asph	NM_001177850	ref Mus musculus aspartate-beta-hydroxylase (Asph), transcript variant 4, mRNA [NM_001177850]	0.33	0.007	0.179
Pde2a	NM_001143848	ref Mus musculus phosphodiesterase 2A, cGMP-stimulated (Pde2a), transcript variant 1, mRNA [NM_001143848]	0.33	0.017	0.278
chr11:82588507-82594501_R	chr11:82588507-82594501_R	lincRNA:chr11:82588507-82594501 reverse strand	0.33	0.019	0.289
Fam13a	NM_153574	ref Mus musculus family with sequence similarity 13, member A (Fam13a), mRNA [NM_153574]	0.33	0.010	0.208
Anxa5	NM_009673	ref Mus musculus annexin A5 (Anxa5), mRNA [NM_009673]	0.33	0.003	0.124
chr1:175654606-175672031_R	chr1:175654606-175672031_R	lincRNA:chr1:175654606-175672031 reverse strand	0.32	0.029	0.353
chr16:64796849-64843249_R	chr16:64796849-64843249_R	lincRNA:chr16:64796849-64843249 reverse strand	0.32	0.039	0.412
ENSMUST00000100778	ENSMUST00000100778	ens predicted gene 6288 Gene [Source:MGI Symbol;Acc:MGI:3646376] [ENSMUST00000100778]	0.32	0.019	0.290
ENSMUST00000110394	ENSMUST00000110394	ens adaptor-related protein complex AP-4, epsilon 1 Gene [Source:MGI (curated);Acc:MGI:1336993] [ENSMUST00000110394]	0.32	0.015	0.265
Cyp2c44	NM_001001446	ref Mus musculus cytochrome P450, family 2, subfamily c, polypeptide 44 (Cyp2c44), transcript variant 1, mRNA [NM_001001446]	0.32	0.023	0.319
Glis2	NM_031184	ref Mus musculus GLIS family zinc finger 2 (Glis2), mRNA [NM_031184]	0.32	0.042	0.424
Gclc	NM_010295	ref Mus musculus glutamate-cysteine ligase, catalytic subunit (Gclc), mRNA [NM_010295]	0.32	0.045	0.439
Gm12888	NM_001033791	ref Mus musculus predicted gene 12888 (Gm12888), mRNA [NM_001033791]	0.32	0.017	0.279
chr1:183832694-183834125_R	chr1:183832694-183834125_R	lincRNA:chr1:183832694-183834125 reverse strand	0.32	0.024	0.327
Uhrf2	NM_144873	ref Mus musculus ubiquitin-like, containing PHD and RING finger domains 2 (Uhrf2), mRNA [NM_144873]	0.32	0.028	0.350
Camta1	NM_001081557	ref Mus musculus calmodulin binding transcription activator 1 (Camta1), transcript variant 1, mRNA [NM_001081557]	0.32	0.010	0.208
Aldh9a1	NM_019993	ref Mus musculus aldehyde dehydrogenase 9, subfamily A1 (Aldh9a1), mRNA [NM_019993]	0.32	0.012	0.237
Ly9	NM_008534	ref Mus musculus lymphocyte antigen 9 (Ly9), mRNA [NM_008534]	0.32	0.011	0.228
ENSMUST00000115304	ENSMUST00000115304	ens transformation related protein 63 Gene [Source:MGI (curated);Acc:MGI:1330810] [ENSMUST00000115304]	0.32	0.049	0.452
chr5:77188300-77205150_F	chr5:77188300-77205150_F	lincRNA:chr5:77188300-77205150 forward strand	0.32	0.031	0.368
Nudt16	NM_029385	ref Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 16 (Nudt16), mRNA [NM_029385]	0.32	0.011	0.226
Cep170	NM_001099637	ref Mus musculus centrosomal protein 170 (Cep170), mRNA [NM_001099637]	0.32	0.026	0.339
Nlrp4c	NM_031389	ref Mus musculus NLR family, pyrin domain containing 4C (Nlrp4c), mRNA [NM_031389]	0.32	0.049	0.454
Cdc42se1	NM_001038708	ref Mus musculus CDC42 small effector 1 (Cdc42se1), transcript variant 2, mRNA [NM_001038708]	0.32	0.012	0.236
B830008H07Rik	AK046787	gb Mus musculus 10 days neonate medulla oblongata cDNA, RIKEN full-length enriched library, clone:B830008H07 product:unclassifiable, full insert sequence. [AK046787]	0.32	0.004	0.130

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr13:62376235-62376890_F	chr13:62376235-62376890_F	lincRNA:chr13:62376235-62376890 forward strand	0.32	0.039	0.410
ENSMUST00000105628	ENSMUST00000105628	ens RIKEN cDNA 2610002J02 gene Gene [Source:MGI Symbol;Acc:MGI:1914763] [ENSMUST00000105628]	0.32	0.014	0.257
Elf3m	NM_145380	ref Mus musculus eukaryotic translation initiation factor 3, subunit M (Elf3m), mRNA [NM_145380]	0.32	0.008	0.193
Tor3a	NM_023141	ref Mus musculus torsin family 3, member A (Tor3a), mRNA [NM_023141]	0.32	0.020	0.295
Vmn1r176	NM_001166721	ref Mus musculus vomeronasal 1 receptor 176 (Vmn1r176), mRNA [NM_001166721]	0.32	0.010	0.208
Ifi202b	NM_008327	ref Mus musculus interferon activated gene 202B (Ifi202b), transcript variant 1, mRNA [NM_008327]	0.32	0.040	0.416
Rep15	NM_025620	ref Mus musculus RAB15 effector protein (Rep15), mRNA [NM_025620]	0.32	0.005	0.151
Nme3	NM_019730	ref Mus musculus non-metastatic cells 3, protein expressed in (Nme3), mRNA [NM_019730]	0.32	0.025	0.331
chr12:5303823-5379098_R	chr12:5303823-5379098_R	lincRNA:chr12:5303823-5379098 reverse strand	0.32	0.042	0.426
Aspn	NM_025711	ref Mus musculus asporin (Aspn), transcript variant 1, mRNA [NM_025711]	0.32	0.021	0.304
ENSMUST00000109432	ENSMUST00000109432	ens fibulin 1 Gene [Source:MGI Symbol;Acc:MGI:95487] [ENSMUST00000109432]	0.32	0.017	0.278
Madcam1	NM_013591	ref Mus musculus mucosal vascular addressin cell adhesion molecule 1 (Madcam1), mRNA [NM_013591]	0.32	0.008	0.185
Gm7972	XM_001475415	ref PREDICTED: Mus musculus predicted gene, EG666190 (EG666190), mRNA [XM_001475415]	0.32	0.037	0.401
Gm4361	XM_001479735	ref PREDICTED: Mus musculus hypothetical protein LOC100043325 (LOC100043325), mRNA [XM_001479735]	0.31	0.023	0.317
LOC100045418	XM_001474239	ref PREDICTED: Mus musculus hypothetical protein LOC100045418 (LOC100045418), mRNA [XM_001474239]	0.31	0.007	0.179
chr11:102983499-102994170_F	chr11:102983499-102994170_F	lincRNA:chr11:102983499-102994170 forward strand	0.31	0.014	0.251
chr9:20784567-20799942_R	chr9:20784567-20799942_R	lincRNA:chr9:20784567-20799942 reverse strand	0.31	0.018	0.284
chr8:19678750-20038750_R	chr8:19678750-20038750_R	lincRNA:chr8:19678750-20038750 reverse strand	0.31	0.025	0.330
Gm3860	XM_001478272	ref PREDICTED: Mus musculus hypothetical protein LOC100042470 (LOC100042470), mRNA [XM_001478272]	0.31	0.027	0.347
C87436	NM_146170	ref Mus musculus expressed sequence C87436 (C87436), transcript variant 1, mRNA [NM_146170]	0.31	0.009	0.200
2310016C08Rik	NM_023516	ref Mus musculus RIKEN cDNA 2310016C08 gene (2310016C08Rik), transcript variant 2, mRNA [NM_023516]	0.31	0.002	0.099
1110018G07Rik	NM_178065	ref Mus musculus RIKEN cDNA 1110018G07 gene (1110018G07Rik), mRNA [NM_178065]	0.31	0.001	0.068
Map2k7	NM_001042557	ref Mus musculus mitogen-activated protein kinase kinase 7 (Map2k7), transcript variant 1, mRNA [NM_001042557]	0.31	0.028	0.353
Olfm1	NM_019498	ref Mus musculus olfactomedin 1 (Olfm1), transcript variant 1, mRNA [NM_019498]	0.31	0.027	0.347
2310008H04Rik	NM_146068	ref Mus musculus RIKEN cDNA 2310008H04 gene (2310008H04Rik), mRNA [NM_146068]	0.31	0.013	0.247
1110046J04Rik	AK004186	gb Mus musculus 18-day embryo whole body cDNA, RIKEN full-length enriched library, clone:1110046J04 product:unclassifiable, full insert sequence. [AK004186]	0.31	0.048	0.449
Hn1	NM_008258	ref Mus musculus hematological and neurological expressed sequence 1 (Hn1), mRNA [NM_008258]	0.31	0.035	0.389
LOC100048185	XM_001479706	ref PREDICTED: Mus musculus similar to Btf3 protein (LOC100048185), mRNA [XM_001479706]	0.31	0.029	0.353
Lix1l	NM_001163170	ref Mus musculus Lix1-like (Lix1l), mRNA [NM_001163170]	0.31	0.001	0.077

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Pten	NM_008960	ref Mus musculus phosphatase and tensin homolog (Pten), mRNA [NM_008960]	0.31	0.017	0.275
3300005D01Rik	XM_001476467	ref PREDICTED: Mus musculus RIKEN cDNA 3300005D01 gene (3300005D01Rik), mRNA [XM_001476467]	0.31	0.012	0.229
Fgfr1	NM_010206	ref Mus musculus fibroblast growth factor receptor 1 (Fgfr1), transcript variant 1, mRNA [NM_010206]	0.31	0.014	0.251
chr6:53808521-53817132_F	chr6:53808521-53817132_F	lincRNA:chr6:53808521-53817132 forward strand	0.31	0.039	0.408
Rasa3	NM_009025	ref Mus musculus RAS p21 protein activator 3 (Rasa3), mRNA [NM_009025]	0.31	0.004	0.135
9030619P08Rik	NM_001039720	ref Mus musculus RIKEN cDNA 9030619P08 gene (9030619P08Rik), mRNA [NM_001039720]	0.31	0.005	0.147
chr13:94200051-94200598_R	chr13:94200051-94200598_R	lincRNA:chr13:94200051-94200598 reverse strand	0.31	0.035	0.388
ENSMUST00000114193	ENSMUST00000114193	ens ATP synthase, H+ transporting, mitochondrial F0 complex, subunit F Gene [Source:MGI (curated);Acc:MGI:107777] [ENSMUST00000114193]	0.31	0.027	0.347
chr2:168136823-168137075_R	chr2:168136823-168137075_R	lincRNA:chr2:168136823-168137075 reverse strand	0.31	0.027	0.348
Ifi202b	NM_011940	ref Mus musculus interferon activated gene 202B (Ifi202b), transcript variant 2, mRNA [NM_011940]	0.31	0.048	0.450
Camta1	NM_001081557	ref Mus musculus calmodulin binding transcription activator 1 (Camta1), transcript variant 1, mRNA [NM_001081557]	0.31	0.010	0.208
1110038B12Rik	NR_027943	ref Mus musculus RIKEN cDNA 1110038B12 gene (1110038B12Rik), transcript variant 1, non-coding RNA [NR_027943]	0.31	0.038	0.407
Etfdh	NM_025794	ref Mus musculus electron transferring flavoprotein, dehydrogenase (Etfdh), mRNA [NM_025794]	0.31	0.035	0.388
Slit3	NM_011412	ref Mus musculus slit homolog 3 (Drosophila) (Slit3), mRNA [NM_011412]	0.31	0.011	0.223
Ap3s1	NM_009681	ref Mus musculus adaptor-related protein complex 3, sigma 1 subunit (Ap3s1), mRNA [NM_009681]	0.31	0.018	0.282
4930474N09Rik	AK015577	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930474N09 product:unclassifiable, full insert sequence. [AK015577]	0.31	0.034	0.383
2410018L13Rik	NR_015504	ref Mus musculus RIKEN cDNA 2410018L13 gene (2410018L13Rik), non-coding RNA [NR_015504]	0.31	0.034	0.385
Kazald1	NM_178929	ref Mus musculus Kazal-type serine peptidase inhibitor domain 1 (Kazald1), mRNA [NM_178929]	0.31	0.021	0.307
Pon3	NM_173006	ref Mus musculus paraoxonase 3 (Pon3), mRNA [NM_173006]	0.31	0.003	0.118
Amotl2	NM_019764	ref Mus musculus angiomin-like 2 (Amotl2), mRNA [NM_019764]	0.31	0.032	0.372
Lor	NM_008508	ref Mus musculus lorocrin (Lor), mRNA [NM_008508]	0.31	0.025	0.330
Carhsp1	NM_025821	ref Mus musculus calcium regulated heat stable protein 1 (Carhsp1), mRNA [NM_025821]	0.31	0.036	0.391
D3Erd751e	NM_028667	ref Mus musculus DNA segment, Chr 3, ERATO Doi 751, expressed (D3Erd751e), transcript variant 1, mRNA [NM_028667]	0.31	0.031	0.369
chr10:114762889-114763210_F	chr10:114762889-114763210_F	lincRNA:chr10:114762889-114763210 forward strand	0.31	0.044	0.432
Idi2	NM_177197	ref Mus musculus isopentenyl-diphosphate delta isomerase 2 (Idi2), mRNA [NM_177197]	0.31	0.031	0.367
2900026A02Rik	NM_172884	ref Mus musculus RIKEN cDNA 2900026A02 gene (2900026A02Rik), mRNA [NM_172884]	0.31	0.032	0.374
Tmem136	NM_001034863	ref Mus musculus transmembrane protein 136 (Tmem136), mRNA [NM_001034863]	0.31	0.004	0.134
Cdk8	NM_153599	ref Mus musculus cyclin-dependent kinase 8 (Cdk8), mRNA [NM_153599]	0.31	0.019	0.289
Gm3448	NM_001123367	ref Mus musculus predicted gene 3448 (Gm3448), mRNA [NM_001123367]	0.31	0.030	0.361

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Fjx1	NM_010218	ref Mus musculus four jointed box 1 (Drosophila) (Fjx1), mRNA [NM_010218]	0.31	0.041	0.420
Sap30	NM_021788	ref Mus musculus sin3 associated polypeptide (Sap30), mRNA [NM_021788]	0.30	0.018	0.286
Cdkl1	NM_183294	ref Mus musculus cyclin-dependent kinase-like 1 (CDC2-related kinase) (Cdkl1), mRNA [NM_183294]	0.30	0.039	0.410
Mfsd7b	NM_001081259	ref Mus musculus major facilitator superfamily domain containing 7B (Mfsd7b), mRNA [NM_001081259]	0.30	0.033	0.377
chr15:79709500-79714700_F	chr15:79709500-79714700_F	lincRNA:chr15:79709500-79714700 forward strand	0.30	0.023	0.317
C030027H14Rik	AK021106	gb Mus musculus adult male corpus striatum cDNA, RIKEN full-length enriched library, clone:C030027H14 product:unclassifiable, full insert sequence. [AK021106]	0.30	0.029	0.353
Dync2h1	NM_029851	ref Mus musculus dynein cytoplasmic 2 heavy chain 1 (Dync2h1), mRNA [NM_029851]	0.30	0.016	0.271
Gm9484	XM_001474948	ref PREDICTED: Mus musculus hypothetical LOC670358 (LOC670358), mRNA [XM_001474948]	0.30	0.047	0.446
Rps28	NM_016844	ref Mus musculus ribosomal protein S28 (Rps28), mRNA [NM_016844]	0.30	0.003	0.114
Rrs1	NM_021511	ref Mus musculus RRS1 ribosome biogenesis regulator homolog (S. cerevisiae) (Rrs1), mRNA [NM_021511]	0.30	0.010	0.216
Krtap24-1	NM_001163141	ref Mus musculus keratin associated protein 24-1 (Krtap24-1), mRNA [NM_001163141]	0.30	0.037	0.398
St6galnac4	NM_011373	ref Mus musculus ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 4 (St6galnac4), mRNA [NM_011373]	0.30	0.015	0.264
Obscn	NM_199152	ref Mus musculus obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF (Obscn), transcript variant 2, mRNA [NM_199152]	0.30	0.015	0.260
Ltbp3	NM_008520	ref Mus musculus latent transforming growth factor beta binding protein 3 (Ltbp3), mRNA [NM_008520]	0.30	0.015	0.263
Hif1a	NM_010431	ref Mus musculus hypoxia inducible factor 1, alpha subunit (Hif1a), mRNA [NM_010431]	0.30	0.004	0.131
Sat1	NM_009121	ref Mus musculus spermidine/spermine N1-acetyl transferase 1 (Sat1), mRNA [NM_009121]	0.30	0.016	0.269
chr3:85806420-85889300_R	chr3:85806420-85889300_R	lincRNA:chr3:85806420-85889300 reverse strand	0.30	0.047	0.446
Id1	NM_010495	ref Mus musculus inhibitor of DNA binding 1 (Id1), mRNA [NM_010495]	0.30	0.049	0.456
Il17rc	NM_134159	ref Mus musculus interleukin 17 receptor C (Il17rc), mRNA [NM_134159]	0.30	0.042	0.422
Fat1	NM_001081286	ref Mus musculus FAT tumor suppressor homolog 1 (Drosophila) (Fat1), mRNA [NM_001081286]	0.30	0.026	0.337
Ptprj	NM_008982	ref Mus musculus protein tyrosine phosphatase, receptor type, J (Ptprj), transcript variant 1, mRNA [NM_008982]	0.30	0.028	0.353
chr14:77042348-77042645_R	chr14:77042348-77042645_R	lincRNA:chr14:77042348-77042645 reverse strand	0.30	0.009	0.195
Mgll	NM_001166250	ref Mus musculus monoglyceride lipase (Mgll), transcript variant 4, mRNA [NM_001166250]	0.30	0.015	0.261
Gm6961	XM_901330	ref PREDICTED: Mus musculus predicted gene, EG629300 (EG629300), mRNA [XM_901330]	0.30	0.041	0.422
Efs	NM_010112	ref Mus musculus embryonal Fyn-associated substrate (Efs), mRNA [NM_010112]	0.30	0.007	0.172
Tead2	NM_011565	ref Mus musculus TEA domain family member 2 (Tead2), mRNA [NM_011565]	0.30	0.006	0.170
Mat2a	NM_145569	ref Mus musculus methionine adenosyltransferase II, alpha (Mat2a), mRNA [NM_145569]	0.30	0.032	0.375
Taf1d	NM_027261	ref Mus musculus TATA box binding protein (Tbp)-associated factor, RNA polymerase I, D (Taf1d), transcript variant 3, mRNA [NM_027261]	0.30	0.033	0.376
Csad	NM_144942	ref Mus musculus cysteine sulfinic acid decarboxylase (Csad), mRNA [NM_144942]	0.30	0.009	0.201

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Copg	NM_201244	ref Mus musculus coatmer protein complex, subunit gamma (Copg), transcript variant 2, mRNA [NM_201244]	0.30	0.035	0.389
Car11	NM_009800	ref Mus musculus carbonic anhydrase 11 (Car11), mRNA [NM_009800]	0.30	0.006	0.169
ENSMUST00000097723	ENSMUST00000097723	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3TTS9] [ENSMUST00000097723]	0.30	0.041	0.422
chr10:83980790-83986015_R	chr10:83980790-83986015_R	lincRNA:chr10:83980790-83986015 reverse strand	0.30	0.036	0.391
Syncrip	NM_019796	ref Mus musculus synaptotagmin binding, cytoplasmic RNA interacting protein (Syncrip), transcript variant 2, mRNA [NM_019796]	0.30	0.004	0.132
ENSMUST00000112407	ENSMUST00000112407	ens sodium channel, voltage-gated, type III, alpha Gene [Source:MGI (curated);Acc:MGI:98249] [ENSMUST00000112407]	0.30	0.038	0.403
Snhg3	NR_003270	ref Mus musculus small nucleolar RNA host gene (non-protein coding) 3 (Snhg3), non-coding RNA [NR_003270]	0.30	0.013	0.245
LOC100045359	XM_001474179	ref PREDICTED: Mus musculus similar to Development and differentiation enhancing (LOC100045359), mRNA [XM_001474179]	0.30	0.014	0.257
Ctsz	NM_022325	ref Mus musculus cathepsin Z (Ctsz), mRNA [NM_022325]	0.30	0.022	0.314
chr11:93994795-94017045_F	chr11:93994795-94017045_F	lincRNA:chr11:93994795-94017045 forward strand	0.30	0.037	0.398
chr1:75075500-75102200_F	chr1:75075500-75102200_F	lincRNA:chr1:75075500-75102200 forward strand	0.30	0.027	0.344
chr18:35974770-35975091_F	chr18:35974770-35975091_F	lincRNA:chr18:35974770-35975091 forward strand	0.30	0.043	0.428
Pura	NM_008989	ref Mus musculus purine rich element binding protein A (Pura), mRNA [NM_008989]	0.30	0.006	0.165
chr12:89479525-89503525_F	chr12:89479525-89503525_F	lincRNA:chr12:89479525-89503525 forward strand	0.30	0.046	0.443
chr1:182438908-182449858_R	chr1:182438908-182449858_R	lincRNA:chr1:182438908-182449858 reverse strand	0.29	0.041	0.418
Azin1	NM_018745	ref Mus musculus antizyme inhibitor 1 (Azin1), transcript variant 2, mRNA [NM_018745]	0.29	0.011	0.228
Iqgap1	NM_016721	ref Mus musculus IQ motif containing GTPase activating protein 1 (Iqgap1), mRNA [NM_016721]	0.29	0.017	0.278
Zcchc18	NM_001035510	ref Mus musculus zinc finger, CCHC domain containing 18 (Zcchc18), transcript variant 1, mRNA [NM_001035510]	0.29	0.040	0.414
Nedd9	NM_017464	ref Mus musculus neural precursor cell expressed, developmentally down-regulated gene 9 (Nedd9), transcript variant 2, mRNA [NM_017464]	0.29	0.023	0.317
Ifi204	NM_008329	ref Mus musculus interferon activated gene 204 (Ifi204), mRNA [NM_008329]	0.29	0.005	0.155
Pdlim5	NM_019809	ref Mus musculus PDZ and LIM domain 5 (Pdlim5), transcript variant 2, mRNA [NM_019809]	0.29	0.037	0.399
Pdgfb	NM_011057	ref Mus musculus platelet derived growth factor, B polypeptide (Pdgfb), mRNA [NM_011057]	0.29	0.008	0.185
ENSMUST00000117274	ENSMUST00000117274	ens leukocyte receptor cluster (LRC) member 8 Gene [Source:MGI (curated);Acc:MGI:2142195] [ENSMUST00000117274]	0.29	0.016	0.272
Olf1408	NM_146764	ref Mus musculus olfactory receptor 1408 (Olf1408), mRNA [NM_146764]	0.29	0.037	0.397
Nop14	NM_029278	ref Mus musculus NOP14 nucleolar protein homolog (yeast) (Nop14), mRNA [NM_029278]	0.29	0.023	0.320
Cebpg	NM_009884	ref Mus musculus CCAAT/enhancer binding protein (C/EBP), gamma (Cebpg), mRNA [NM_009884]	0.29	0.015	0.263
chr15:32708654-32725622_F	chr15:32708654-32725622_F	lincRNA:chr15:32708654-32725622 forward strand	0.29	0.043	0.427
Cfl2	NM_007688	ref Mus musculus cofilin 2, muscle (Cfl2), mRNA [NM_007688]	0.29	0.006	0.167

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr3:30059174-30060808_R	chr3:30059174-30060808_R	lincRNA:chr3:30059174-30060808 reverse strand	0.29	0.035	0.391
ENSMUST00000108446	ENSMUST00000108446	ref PREDICTED: Mus musculus hypothetical protein LOC100043625 (LOC100043625), mRNA [XM_001480641]	0.29	0.034	0.385
Fuca1	NM_024243	ref Mus musculus fucosidase, alpha-L-1, tissue (Fuca1), mRNA [NM_024243]	0.29	0.004	0.128
Dnajc3	NM_008929	ref Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 3 (Dnajc3), mRNA [NM_008929]	0.29	0.029	0.353
LOC269472	BC027582	gb Mus musculus cDNA sequence BC027582, mRNA (cDNA clone MGC:41739 IMAGE:1379952), complete cds. [BC027582]	0.29	0.005	0.145
Mx1	NM_010846	ref Mus musculus myxovirus (influenza virus) resistance 1 (Mx1), mRNA [NM_010846]	0.29	0.041	0.418
Samd14	NM_146025	ref Mus musculus sterile alpha motif domain containing 14 (Samd14), transcript variant 1, mRNA [NM_146025]	0.29	0.004	0.135
Diap2	NM_172493	ref Mus musculus diaphanous homolog 2 (Drosophila) (Diap2), transcript variant 2, mRNA [NM_172493]	0.29	0.033	0.376
Apbb3	NM_146085	ref Mus musculus amyloid beta (A4) precursor protein-binding, family B, member 3 (Apbb3), mRNA [NM_146085]	0.29	0.012	0.236
Gpr19	NM_001167693	ref Mus musculus G protein-coupled receptor 19 (Gpr19), transcript variant 1, mRNA [NM_001167693]	0.29	0.044	0.430
Ppp2ca	NM_019411	ref Mus musculus protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform (Ppp2ca), mRNA [NM_019411]	0.29	0.026	0.337
Krtap6-3	XM_001474351	ref PREDICTED: Mus musculus similar to keratin associated protein 20-2 (LOC100040249), mRNA [XM_001474351]	0.29	0.049	0.455
Anxa4	NM_013471	ref Mus musculus annexin A4 (Anxa4), mRNA [NM_013471]	0.29	0.045	0.437
Bag3	NM_013863	ref Mus musculus BCL2-associated athanogene 3 (Bag3), mRNA [NM_013863]	0.29	0.016	0.267
Mtus2	NM_029920	ref Mus musculus microtubule associated tumor suppressor candidate 2 (Mtus2), mRNA [NM_029920]	0.29	0.023	0.316
Tgfr1	NM_009370	ref Mus musculus transforming growth factor, beta receptor I (Tgfr1), mRNA [NM_009370]	0.29	0.026	0.335
Serpina3c	NM_008458	ref Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 3C (Serpina3c), mRNA [NM_008458]	0.29	0.040	0.415
Cttnbp2nl	NM_030249	ref Mus musculus CTTNBP2 N-terminal like (Cttnbp2nl), transcript variant 1, mRNA [NM_030249]	0.29	0.016	0.274
Cox6b2	NM_183405	ref Mus musculus cytochrome c oxidase subunit VIb polypeptide 2 (Cox6b2), transcript variant 1, mRNA [NM_183405]	0.29	0.038	0.402
Klrg1	NM_016970	ref Mus musculus killer cell lectin-like receptor subfamily G, member 1 (Klrg1), mRNA [NM_016970]	0.29	0.049	0.455
chr10:39383665-39442690_R	chr10:39383665-39442690_R	lincRNA:chr10:39383665-39442690 reverse strand	0.29	0.033	0.376
chrX:34360500-34388500_R	chrX:34360500-34388500_R	lincRNA:chrX:34360500-34388500 reverse strand	0.29	0.043	0.429
chr4:21683562-21694344_R	chr4:21683562-21694344_R	lincRNA:chr4:21683562-21694344 reverse strand	0.29	0.049	0.455
LOC676108	XR_031615	ref PREDICTED: Mus musculus similar to PNG protein (LOC676108), misc RNA [XR_031615]	0.29	0.017	0.277
Cul7	NM_025611	ref Mus musculus cullin 7 (Cul7), mRNA [NM_025611]	0.29	0.011	0.220
Adam9	NM_007404	ref Mus musculus a disintegrin and metalloproteinase domain 9 (meltrin gamma) (Adam9), mRNA [NM_007404]	0.29	0.013	0.243
Tars	NM_033074	ref Mus musculus threonyl-tRNA synthetase (Tars), mRNA [NM_033074]	0.29	0.005	0.155
Nqo1	NM_008706	ref Mus musculus NAD(P)H dehydrogenase, quinone 1 (Nqo1), mRNA [NM_008706]	0.29	0.010	0.208
Olf172	NM_147001	ref Mus musculus olfactory receptor 172 (Olf172), mRNA [NM_147001]	0.29	0.033	0.379

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr16:90038086-90127636_R	chr16:90038086-90127636_R	lincRNA:chr16:90038086-90127636 reverse strand	0.29	0.020	0.300
chr8:106619342-106624851_R	chr8:106619342-106624851_R	lincRNA:chr8:106619342-106624851 reverse strand	0.29	0.046	0.444
Man2a1	NM_008549	ref Mus musculus mannosidase 2, alpha 1 (Man2a1), mRNA [NM_008549]	0.29	0.020	0.295
chr13:108577843-108679708_R	chr13:108577843-108679708_R	lincRNA:chr13:108577843-108679708 reverse strand	0.29	0.046	0.444
Kif5b	NM_008448	ref Mus musculus kinesin family member 5B (Kif5b), mRNA [NM_008448]	0.28	0.013	0.239
chr5:14960146-14978541_F	chr5:14960146-14978541_F	lincRNA:chr5:14960146-14978541 forward strand	0.28	0.020	0.297
Lmbr1l	NM_029098	ref Mus musculus limb region 1 like (Lmbr1l), mRNA [NM_029098]	0.28	0.029	0.354
Arv1	NM_026855	ref Mus musculus ARV1 homolog (yeast) (Arv1), mRNA [NM_026855]	0.28	0.026	0.335
Ctps	NM_016748	ref Mus musculus cytidine 5'-triphosphate synthase (Ctps), mRNA [NM_016748]	0.28	0.023	0.321
Cercam	NM_207298	ref Mus musculus cerebral endothelial cell adhesion molecule (Cercam), mRNA [NM_207298]	0.28	0.046	0.443
Gm15032	XM_001472223	ref PREDICTED: Mus musculus similar to HL23 ribosomal protein (LOC100039086), mRNA [XM_001472223]	0.28	0.048	0.449
Epc2	NM_172663	ref Mus musculus enhancer of polycomb homolog 2 (Drosophila) (Epc2), mRNA [NM_172663]	0.28	0.018	0.282
Rnasel	NM_011882	ref Mus musculus ribonuclease L (2', 5'-oligoadenylate synthetase-dependent) (Rnasel), mRNA [NM_011882]	0.28	0.036	0.392
Cmklr1	NM_008153	ref Mus musculus chemokine-like receptor 1 (Cmklr1), mRNA [NM_008153]	0.28	0.039	0.412
F2r	NM_010169	ref Mus musculus coagulation factor II (thrombin) receptor (F2r), mRNA [NM_010169]	0.28	0.006	0.162
chr5:74487385-74497428_F	chr5:74487385-74497428_F	lincRNA:chr5:74487385-74497428 forward strand	0.28	0.023	0.321
Aoc3	NM_009675	ref Mus musculus amine oxidase, copper containing 3 (Aoc3), mRNA [NM_009675]	0.28	0.043	0.427
Ccdc82	NM_025534	ref Mus musculus coiled-coil domain containing 82 (Ccdc82), mRNA [NM_025534]	0.28	0.007	0.178
chr15:12119755-12127230_F	chr15:12119755-12127230_F	lincRNA:chr15:12119755-12127230 forward strand	0.28	0.048	0.449
Rp2h	NM_133669	ref Mus musculus retinitis pigmentosa 2 homolog (human) (Rp2h), mRNA [NM_133669]	0.28	0.046	0.443
Slc8a2	NM_148946	ref Mus musculus solute carrier family 8 (sodium/calcium exchanger), member 2 (Slc8a2), mRNA [NM_148946]	0.28	0.035	0.388
Lpar6	NM_175116	ref Mus musculus lysophosphatidic acid receptor 6 (Lpar6), mRNA [NM_175116]	0.28	0.010	0.214
Cspg4	NM_139001	ref Mus musculus chondroitin sulfate proteoglycan 4 (Cspg4), mRNA [NM_139001]	0.28	0.009	0.196
Acbd4	NM_025988	ref Mus musculus acyl-Coenzyme A binding domain containing 4 (Acbd4), transcript variant 1, mRNA [NM_025988]	0.28	0.025	0.330
Nfatc3	NM_010901	ref Mus musculus nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3 (Nfatc3), mRNA [NM_010901]	0.28	0.025	0.332
LOC100045981	XM_001475298	ref PREDICTED: Mus musculus similar to synaptotagmin XI (LOC100045981), mRNA [XM_001475298]	0.28	0.018	0.284
Zfp704	NM_133218	ref Mus musculus zinc finger protein 704 (Zfp704), mRNA [NM_133218]	0.28	0.022	0.312
Prkg1	NM_011160	ref Mus musculus protein kinase, cGMP-dependent, type I (Prkg1), transcript variant 2, mRNA [NM_011160]	0.28	0.037	0.398
9430076C15Rik	NR_015553	ref Mus musculus RIKEN cDNA 9430076C15 gene (9430076C15Rik), non-coding RNA [NR_015553]	0.28	0.050	0.457
Gas2l1	NM_144560	ref Mus musculus growth arrest-specific 2 like 1 (Gas2l1), transcript variant beta, mRNA [NM_144560]	0.28	0.017	0.277

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Mapk1ip1	NM_001045483	ref Mus musculus mitogen-activated protein kinase 1 interacting protein 1 (Mapk1ip1), transcript variant 1, mRNA [NM_001045483]	0.28	0.047	0.449
chr2:175543425-175603300_F	chr2:175543425-175603300_F	lincRNA:chr2:175543425-175603300 forward strand	0.28	0.048	0.452
Ppp1r2	NM_025800	ref Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 2 (Ppp1r2), mRNA [NM_025800]	0.28	0.016	0.269
Rras2	NM_025846	ref Mus musculus related RAS viral (r-ras) oncogene homolog 2 (Rras2), mRNA [NM_025846]	0.28	0.007	0.177
Zfp7	NM_145916	ref Mus musculus zinc finger protein 7 (Zfp7), mRNA [NM_145916]	0.28	0.046	0.444
Cdkn1b	NM_009875	ref Mus musculus cyclin-dependent kinase inhibitor 1B (Cdkn1b), mRNA [NM_009875]	0.28	0.049	0.456
Layn	NM_001033534	ref Mus musculus layilin (Layn), mRNA [NM_001033534]	0.28	0.049	0.452
2900073G15Rik	NM_026064	ref Mus musculus RIKEN cDNA 2900073G15 gene (2900073G15Rik), mRNA [NM_026064]	0.28	0.009	0.199
Il4	NM_021283	ref Mus musculus interleukin 4 (Il4), transcript variant 1, mRNA [NM_021283]	0.28	0.011	0.216
Acox1	NM_015729	ref Mus musculus acyl-Coenzyme A oxidase 1, palmitoyl (Acox1), mRNA [NM_015729]	0.27	0.013	0.246
Spns3	NM_029932	ref Mus musculus spinster homolog 3 (Drosophila) (Spns3), mRNA [NM_029932]	0.27	0.048	0.449
Snx10	NM_028035	ref Mus musculus sorting nexin 10 (Snx10), transcript variant 1, mRNA [NM_028035]	0.27	0.025	0.334
Artn	NM_009711	ref Mus musculus artemin (Artn), mRNA [NM_009711]	0.27	0.045	0.437
chr9:75330657-75332641_F	chr9:75330657-75332641_F	lincRNA:chr9:75330657-75332641 forward strand	0.27	0.018	0.283
Stx2	NM_007941	ref Mus musculus syntaxin 2 (Stx2), mRNA [NM_007941]	0.27	0.047	0.446
Nsd1	NM_008739	ref Mus musculus nuclear receptor-binding SET-domain protein 1 (Nsd1), mRNA [NM_008739]	0.27	0.045	0.436
Plod3	NM_011962	ref Mus musculus procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3 (Plod3), mRNA [NM_011962]	0.27	0.016	0.272
Plekho1	NM_023320	ref Mus musculus pleckstrin homology domain containing, family O member 1 (Plekho1), mRNA [NM_023320]	0.27	0.015	0.266
Akr1b8	NM_008012	ref Mus musculus aldo-keto reductase family 1, member B8 (Akr1b8), mRNA [NM_008012]	0.27	0.037	0.400
Zfp346	NM_012017	ref Mus musculus zinc finger protein 346 (Zfp346), mRNA [NM_012017]	0.27	0.047	0.447
ENSMUST00000095823	ENSMUST00000095823	ref PREDICTED: Mus musculus RIKEN cDNA 2410004P03 gene, transcript variant 3 (2410004P03Rik), mRNA [XM_920599]	0.27	0.047	0.446
Arhgef12	NM_027144	ref Mus musculus Rho guanine nucleotide exchange factor (GEF) 12 (Arhgef12), mRNA [NM_027144]	0.27	0.008	0.184
ENSMUST00000103595	ENSMUST00000103595	ens T-cell receptor alpha, variable 8 Gene [Source:MGI Symbol;Acc:MGI:98572] [ENSMUST00000103595]	0.27	0.033	0.380
Serpnb6c	NM_148942	ref Mus musculus serine (or cysteine) peptidase inhibitor, clade B, member 6c (Serpnb6c), mRNA [NM_148942]	0.27	0.031	0.369
Hcfc1r1	NM_181821	ref Mus musculus host cell factor C1 regulator 1 (XPO1-dependent) (Hcfc1r1), mRNA [NM_181821]	0.27	0.028	0.353
Comtd1	NM_026965	ref Mus musculus catechol-O-methyltransferase domain containing 1 (Comtd1), mRNA [NM_026965]	0.27	0.028	0.353
Fam38a	NM_001037298	ref Mus musculus family with sequence similarity 38, member A (Fam38a), mRNA [NM_001037298]	0.27	0.004	0.137
Adamtsl5	NM_001113548	ref Mus musculus ADAMTS-like 5 (Adamtsl5), transcript variant 1, mRNA [NM_001113548]	0.27	0.022	0.310
1700125D06Rik	NM_001085491	ref Mus musculus RIKEN cDNA 1700125D06 gene (1700125D06Rik), mRNA [NM_001085491]	0.27	0.038	0.402
Esyt1	NM_011843	ref Mus musculus extended synaptotagmin-like protein 1 (Esyt1), mRNA [NM_011843]	0.27	0.010	0.216
P2rx4	NM_011026	ref Mus musculus purinergic receptor P2X, ligand-gated ion channel 4 (P2rx4), mRNA [NM_011026]	0.27	0.023	0.322

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Gm8983	XR_033375	ref PREDICTED: Mus musculus similar to cyclin I (LOC668118), misc RNA [XR_033375]	0.27	0.027	0.347
Tgoln2	NM_009444	ref Mus musculus trans-golgi network protein 2 (Tgoln2), mRNA [NM_009444]	0.27	0.023	0.317
Srrm1	NM_016799	ref Mus musculus serine/arginine repetitive matrix 1 (Srrm1), transcript variant 1, mRNA [NM_016799]	0.27	0.044	0.435
Tcap	NM_011540	ref Mus musculus titin-cap (Tcap), mRNA [NM_011540]	0.27	0.033	0.376
Gon4l	NM_027389	ref Mus musculus gon-4-like (C.elegans) (Gon4l), mRNA [NM_027389]	0.27	0.033	0.377
Chmp4b	NM_029362	ref Mus musculus chromatin modifying protein 4B (Chmp4b), mRNA [NM_029362]	0.27	0.005	0.148
Foxc1	NM_008592	ref Mus musculus forkhead box C1 (Foxc1), mRNA [NM_008592]	0.27	0.024	0.329
Lrp1	NM_008512	ref Mus musculus low density lipoprotein receptor-related protein 1 (Lrp1), mRNA [NM_008512]	0.27	0.025	0.332
Srrm1	NM_016799	ref Mus musculus serine/arginine repetitive matrix 1 (Srrm1), transcript variant 1, mRNA [NM_016799]	0.27	0.020	0.300
LOC674503	XM_975189	ref PREDICTED: Mus musculus hypothetical LOC674503 (LOC674503), mRNA [XM_975189]	0.27	0.048	0.452
Tnfrsf1b	NM_011610	ref Mus musculus tumor necrosis factor receptor superfamily, member 1b (Tnfrsf1b), mRNA [NM_011610]	0.26	0.050	0.456
Ppfia1	NM_001033319	ref Mus musculus protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 1 (Ppfia1), mRNA [NM_001033319]	0.26	0.020	0.298
Twf1	NM_008971	ref Mus musculus twinfilin, actin-binding protein, homolog 1 (Drosophila) (Twf1), mRNA [NM_008971]	0.26	0.015	0.263
Casc4	NM_177054	ref Mus musculus cancer susceptibility candidate 4 (Casc4), transcript variant 1, mRNA [NM_177054]	0.26	0.013	0.245
Gm4815	XR_033494	ref PREDICTED: Mus musculus similar to calponin 3, acidic (LOC218501), misc RNA [XR_033494]	0.26	0.041	0.418
ENSMUST00000091506	ENSMUST00000091506	ref PREDICTED: Mus musculus similar to ribosomal protein S28 (LOC100047282), mRNA [XM_001477795]	0.26	0.007	0.175
chr11:58136882-58143829_R	chr11:58136882-58143829_R	lincRNA:chr11:58136882-58143829 reverse strand	0.26	0.043	0.430
Lrrc39	NM_027321	ref Mus musculus leucine rich repeat containing 39 (Lrrc39), transcript variant 1, mRNA [NM_027321]	0.26	0.046	0.444
Sptlc2	NM_011479	ref Mus musculus serine palmitoyltransferase, long chain base subunit 2 (Sptlc2), mRNA [NM_011479]	0.26	0.031	0.367
chr6:121035524-121061074_R	chr6:121035524-121061074_R	lincRNA:chr6:121035524-121061074 reverse strand	0.26	0.041	0.422
4931440P22Rik	NR_027955	ref Mus musculus RIKEN cDNA 4931440P22 gene (4931440P22Rik), non-coding RNA [NR_027955]	0.26	0.041	0.418
Socs2	NM_007706	ref Mus musculus suppressor of cytokine signaling 2 (Socs2), transcript variant 1, mRNA [NM_007706]	0.26	0.020	0.298
Get4	NM_026269	ref Mus musculus golgi to ER traffic protein 4 homolog (S. cerevisiae) (Get4), transcript variant 1, mRNA [NM_026269]	0.26	0.011	0.224
Plekha3	NM_031256	ref Mus musculus pleckstrin homology domain-containing, family A (phosphoinositide binding specific) member 3 (Plekha3), mRNA [NM_031256]	0.26	0.011	0.223
Dus2l	NM_025518	ref Mus musculus dihydrouridine synthase 2-like (SMM1, S. cerevisiae) (Dus2l), mRNA [NM_025518]	0.26	0.013	0.241
Rnf169	NM_175388	ref Mus musculus ring finger protein 169 (Rnf169), mRNA [NM_175388]	0.26	0.013	0.246
Pon2	NM_183308	ref Mus musculus paraoxonase 2 (Pon2), mRNA [NM_183308]	0.26	0.032	0.372
Fam151b	NM_001163627	ref Mus musculus family with sequence similarity 151, member B (Fam151b), mRNA [NM_001163627]	0.26	0.030	0.362
Trove2	NM_013835	ref Mus musculus TROVE domain family, member 2 (Trove2), mRNA [NM_013835]	0.26	0.021	0.305
Sema3f	NM_011349	ref Mus musculus sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F (Sema3f), mRNA [NM_011349]	0.26	0.047	0.446

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
Rbpms	NM_001042675	ref Mus musculus RNA binding protein gene with multiple splicing (Rbpms), transcript variant 3, mRNA [NM_001042675]	0.26	0.006	0.159
Gm15031	XM_001474727	ref PREDICTED: Mus musculus similar to 40S ribosomal protein S28 (LOC100045676), mRNA [XM_001474727]	0.26	0.015	0.265
Lamp2	NM_010685	ref Mus musculus lysosomal-associated membrane protein 2 (Lamp2), transcript variant 2, mRNA [NM_010685]	0.26	0.014	0.258
F730043M19Rik	NR_015602	ref Mus musculus RIKEN cDNA F730043M19 gene (F730043M19Rik), non-coding RNA [NR_015602]	0.26	0.029	0.357
Cdc42bpg	NM_001033342	ref Mus musculus CDC42 binding protein kinase gamma (DMPK-like) (Cdc42bpg), mRNA [NM_001033342]	0.26	0.027	0.342
Etv6	NM_007961	ref Mus musculus ets variant gene 6 (TEL oncogene) (Etv6), mRNA [NM_007961]	0.26	0.022	0.315
Eif4b	NM_145625	ref Mus musculus eukaryotic translation initiation factor 4B (Eif4b), mRNA [NM_145625]	0.26	0.009	0.199
Hyal2	NM_010489	ref Mus musculus hyaluronoglucosaminidase 2 (Hyal2), mRNA [NM_010489]	0.26	0.033	0.378
Gm9108	XR_034404	ref PREDICTED: Mus musculus similar to Hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (LOC668327), misc RNA [XR_034404]	0.26	0.019	0.292
Ssh3	NM_198113	ref Mus musculus slingshot homolog 3 (Drosophila) (Ssh3), mRNA [NM_198113]	0.26	0.014	0.250
Trmt6	NM_175113	ref Mus musculus tRNA methyltransferase 6 homolog (S. cerevisiae) (Trmt6), mRNA [NM_175113]	0.26	0.020	0.297
Fbxo17	NM_015796	ref Mus musculus F-box protein 17 (Fbxo17), mRNA [NM_015796]	0.26	0.035	0.389
BB014433	NM_001007591	ref Mus musculus expressed sequence BB014433 (BB014433), mRNA [NM_001007591]	0.26	0.046	0.444
Rnf115	NM_026406	ref Mus musculus ring finger protein 115 (Rnf115), mRNA [NM_026406]	0.26	0.018	0.284
chr4:116791819-116798263_R	chr4:116791819-116798263_R	lincRNA:chr4:116791819-116798263 reverse strand	0.26	0.023	0.317
Sept11	NM_001009818	ref Mus musculus septin 11 (Sept11), mRNA [NM_001009818]	0.26	0.009	0.199
Pkd1	NM_013630	ref Mus musculus polycystic kidney disease 1 homolog (Pkd1), mRNA [NM_013630]	0.26	0.035	0.388
Bri3bp	NM_029752	ref Mus musculus Bri3 binding protein (Bri3bp), mRNA [NM_029752]	0.26	0.005	0.147
Arsg	NM_028710	ref Mus musculus arylsulfatase G (Arsg), transcript variant 1, mRNA [NM_028710]	0.26	0.018	0.283
ENSMUST00000092011	ENSMUST00000092011	ref PREDICTED: Mus musculus similar to ribosomal protein L12 (LOC546695), mRNA [XM_621465]	0.26	0.034	0.383
Pemt	NM_008819	ref Mus musculus phosphatidylethanolamine N-methyltransferase (Pemt), nuclear gene encoding mitochondrial protein, mRNA [NM_008819]	0.25	0.037	0.399
Capn2	NM_009794	ref Mus musculus calpain 2 (Capn2), mRNA [NM_009794]	0.25	0.018	0.283
Eea1	NM_001001932	ref Mus musculus early endosome antigen 1 (Eea1), mRNA [NM_001001932]	0.25	0.017	0.276
Traf5	NM_011633	ref Mus musculus TNF receptor-associated factor 5 (Traf5), mRNA [NM_011633]	0.25	0.013	0.246
Stradb	NM_172656	ref Mus musculus STE20-related kinase adaptor beta (Stradb), mRNA [NM_172656]	0.25	0.024	0.325
Zfp68	NM_013844	ref Mus musculus zinc finger protein 68 (Zfp68), transcript variant 1, mRNA [NM_013844]	0.25	0.035	0.386
5430410E06Rik	XM_001475205	ref PREDICTED: Mus musculus RIKEN cDNA 5430410E06 gene (5430410E06Rik), mRNA [XM_001475205]	0.25	0.028	0.350
Pde4dip	NM_001039376	ref Mus musculus phosphodiesterase 4D interacting protein (myomegalin) (Pde4dip), transcript variant 1, mRNA [NM_001039376]	0.25	0.013	0.242

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
Fam72a	NM_175382	ref Mus musculus family with sequence similarity 72, member A (Fam72a), mRNA [NM_175382]	0.25	0.025	0.330
Hsd17b4	NM_008292	ref Mus musculus hydroxysteroid (17-beta) dehydrogenase 4 (Hsd17b4), mRNA [NM_008292]	0.25	0.012	0.235
Stk30	NM_011973	ref Mus musculus serine/threonine kinase 30 (Stk30), mRNA [NM_011973]	0.25	0.037	0.400
G6pdx	NM_008062	ref Mus musculus glucose-6-phosphate dehydrogenase X-linked (G6pdx), mRNA [NM_008062]	0.25	0.015	0.262
ENSMUST00000085163	ENSMUST00000085163	ref PREDICTED: Mus musculus similar to 40S ribosomal protein S28 (LOC100042171), mRNA [XM_001477681]	0.25	0.020	0.301
Ppp1r2	NM_025800	ref Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 2 (Ppp1r2), mRNA [NM_025800]	0.25	0.019	0.288
Rhob	NM_007483	ref Mus musculus ras homolog gene family, member B (Rhob), mRNA [NM_007483]	0.25	0.036	0.395
Gpx7	NM_024198	ref Mus musculus glutathione peroxidase 7 (Gpx7), mRNA [NM_024198]	0.25	0.046	0.444
Zcchc2	NM_001122675	ref Mus musculus zinc finger, CCHC domain containing 2 (Zcchc2), transcript variant B, mRNA [NM_001122675]	0.25	0.036	0.393
ENSMUST00000058162	ENSMUST00000058162	ens v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G (avian) Gene [Source:MGI (curated);Acc:MGI:96911] [ENSMUST00000058162]	0.25	0.014	0.256
Fut10	NM_001012517	ref Mus musculus fucosyltransferase 10 (Fut10), transcript variant A, mRNA [NM_001012517]	0.25	0.038	0.406
ENSMUST00000100649	ENSMUST00000100649	ref PREDICTED: Mus musculus similar to ribosomal protein S28 (LOC100039820), mRNA [XM_001474089]	0.25	0.016	0.267
chr13:34027900-34052050_F	chr13:34027900-34052050_F	lincRNA:chr13:34027900-34052050 forward strand	0.25	0.050	0.457
chr13:34027900-34052050_F	chr13:34027900-34052050_F	lincRNA:chr13:34027900-34052050 forward strand	0.25	0.050	0.457
Coro2b	NM_175484	ref Mus musculus coronin, actin binding protein, 2B (Coro2b), mRNA [NM_175484]	0.25	0.028	0.353
Strn	NM_011500	ref Mus musculus striatin, calmodulin binding protein (Strn), mRNA [NM_011500]	0.25	0.034	0.384
Atp9a	NM_015731	ref Mus musculus ATPase, class II, type 9A (Atp9a), mRNA [NM_015731]	0.25	0.022	0.310
Ccdc17	NM_001037916	ref Mus musculus coiled-coil domain containing 17 (Ccdc17), mRNA [NM_001037916]	0.25	0.040	0.415
Abcc5	NM_176839	ref Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 5 (Abcc5), transcript variant 2, mRNA [NM_176839]	0.25	0.038	0.404
Dusp16	NM_130447	ref Mus musculus dual specificity phosphatase 16 (Dusp16), transcript variant A1, mRNA [NM_130447]	0.25	0.024	0.325
Snx33	NM_175483	ref Mus musculus sorting nexin 33 (Snx33), mRNA [NM_175483]	0.25	0.037	0.400
Nars	NM_027350	ref Mus musculus asparaginyl-tRNA synthetase (Nars), transcript variant 2, mRNA [NM_027350]	0.25	0.027	0.342
Phf1	NM_009343	ref Mus musculus PHD finger protein 1 (Phf1), mRNA [NM_009343]	0.24	0.047	0.446
chr1:141824450-141835125_F	chr1:141824450-141835125_F	lincRNA:chr1:141824450-141835125 forward strand	0.24	0.048	0.449
chr18:75518299-75524782_R	chr18:75518299-75524782_R	lincRNA:chr18:75518299-75524782 reverse strand	0.24	0.027	0.344
Slc12a4	NM_009195	ref Mus musculus solute carrier family 12, member 4 (Slc12a4), mRNA [NM_009195]	0.24	0.016	0.273
Prkar2b	NM_011158	ref Mus musculus protein kinase, cAMP dependent regulatory, type II beta (Prkar2b), mRNA [NM_011158]	0.24	0.048	0.452
Cap1	NM_007598	ref Mus musculus CAP, adenylate cyclase-associated protein 1 (yeast) (Cap1), mRNA [NM_007598]	0.24	0.035	0.391
Eftud1	NM_175317	ref Mus musculus elongation factor Tu GTP binding domain containing 1 (Eftud1), transcript variant 1, mRNA [NM_175317]	0.24	0.033	0.378
6330503K22Rik	NM_182995	ref Mus musculus RIKEN cDNA 6330503K22 gene (6330503K22Rik), mRNA [NM_182995]	0.24	0.024	0.326

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
Speer4b	NM_028561	ref Mus musculus spermatogenesis associated glutamate (E)-rich protein 4b (Speer4b), mRNA [NM_028561]	0.24	0.031	0.371
Zfp689	NM_175163	ref Mus musculus zinc finger protein 689 (Zfp689), mRNA [NM_175163]	0.24	0.026	0.338
Tifa	NM_145133	ref Mus musculus TRAF-interacting protein with forkhead-associated domain (Tifa), mRNA [NM_145133]	0.24	0.022	0.314
ENSMUST00000103474	ENSMUST00000103474	ens VH coding region Precursor; Fragment [Source:UniProtKB/TrEMBL;Acc:A2NU21] [ENSMUST00000103474]	0.24	0.048	0.451
Tspyl4	NM_030203	ref Mus musculus TSPY-like 4 (Tspyl4), mRNA [NM_030203]	0.24	0.040	0.413
Rnu7	NR_024201	ref Mus musculus U7 small nuclear RNA (Rnu7), small nuclear RNA [NR_024201]	0.24	0.022	0.310
Mirg	NR_028265	ref Mus musculus miRNA containing gene (Mirg), non-coding RNA [NR_028265]	0.24	0.031	0.371
Rbm16	NM_134123	ref Mus musculus RNA binding motif protein 16 (Rbm16), mRNA [NM_134123]	0.24	0.034	0.385
Fbxo21	NM_145564	ref Mus musculus F-box protein 21 (Fbxo21), mRNA [NM_145564]	0.24	0.017	0.275
Tmem181a	NM_001033178	ref Mus musculus transmembrane protein 181A (Tmem181a), mRNA [NM_001033178]	0.24	0.010	0.211
Litaf	NM_019980	ref Mus musculus LPS-induced TN factor (Litaf), mRNA [NM_019980]	0.24	0.041	0.418
Matr3	NM_010771	ref Mus musculus matrin 3 (Matr3), mRNA [NM_010771]	0.24	0.029	0.359
chr5:119945358-119962612_R	chr5:119945358-119962612_R	lincRNA:chr5:119945358-119962612 reverse strand	0.24	0.030	0.362
Scap	NM_001001144	ref Mus musculus SREBF chaperone (Scap), transcript variant 1, mRNA [NM_001001144]	0.24	0.010	0.208
Nop58	NM_018868	ref Mus musculus NOP58 ribonucleoprotein homolog (yeast) (Nop58), mRNA [NM_018868]	0.24	0.021	0.304
Rapgef3	NM_144850	ref Mus musculus Rap guanine nucleotide exchange factor (GEF) 3 (Rapgef3), transcript variant 2, mRNA [NM_144850]	0.24	0.027	0.344
Rc3h1	NM_001024952	ref Mus musculus RING CCCH (C3H) domains 1 (Rc3h1), mRNA [NM_001024952]	0.24	0.033	0.377
4933407C03Rik	NM_001163262	ref Mus musculus RIKEN cDNA 4933407C03 gene (4933407C03Rik), transcript variant 1, mRNA [NM_001163262]	0.24	0.025	0.331
Rhoc	NM_007484	ref Mus musculus ras homolog gene family, member C (Rhoc), mRNA [NM_007484]	0.24	0.029	0.356
Hook2	NM_133255	ref Mus musculus hook homolog 2 (Drosophila) (Hook2), transcript variant 1, mRNA [NM_133255]	0.24	0.017	0.278
Pafah1b2	NM_008775	ref Mus musculus platelet-activating factor acetylhydrolase, isoform 1b, subunit 2 (Pafah1b2), mRNA [NM_008775]	0.24	0.040	0.417
St7l	NM_153091	ref Mus musculus suppression of tumorigenicity 7-like (St7l), mRNA [NM_153091]	0.24	0.035	0.391
Lgals3bp	NM_011150	ref Mus musculus lectin, galactoside-binding, soluble, 3 binding protein (Lgals3bp), mRNA [NM_011150]	0.24	0.046	0.442
Ptpn12	NM_011203	ref Mus musculus protein tyrosine phosphatase, non-receptor type 12 (Ptpn12), mRNA [NM_011203]	0.24	0.035	0.391
LOC100040188	XR_031293	ref PREDICTED: Mus musculus similar to spermiogenesis specific transcript on the Y 1 (LOC100040188), misc RNA [XR_031293]	0.24	0.043	0.427
Zfr	NM_011767	ref Mus musculus zinc finger RNA binding protein (Zfr), mRNA [NM_011767]	0.24	0.019	0.291
Gm5610	XM_486145	ref PREDICTED: Mus musculus predicted gene, EG434339 (EG434339), mRNA [XM_486145]	0.24	0.039	0.407
Gm3065	XM_001475302	ref PREDICTED: Mus musculus hypothetical protein LOC100040962 (LOC100040962), mRNA [XM_001475302]	0.24	0.039	0.407

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
Cttn	NM_007803	ref Mus musculus cortactin (Cttn), mRNA [NM_007803]	0.24	0.040	0.415
Wdfy1	NM_001111279	ref Mus musculus WD repeat and FYVE domain containing 1 (Wdfy1), transcript variant 1, mRNA [NM_001111279]	0.24	0.025	0.330
4930517G19Rik	AK015812	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930517G19 product:unclassifiable, full insert sequence. [AK015812]	0.24	0.025	0.332
Ormdl3	NM_025661	ref Mus musculus ORM1-like 3 (S. cerevisiae) (Ormdl3), mRNA [NM_025661]	0.24	0.018	0.286
Prr13	NM_025385	ref Mus musculus proline rich 13 (Prr13), transcript variant 1, mRNA [NM_025385]	0.24	0.047	0.446
Rnf2	NM_011277	ref Mus musculus ring finger protein 2 (Rnf2), mRNA [NM_011277]	0.24	0.024	0.328
Bax	NM_007527	ref Mus musculus BCL2-associated X protein (Bax), mRNA [NM_007527]	0.24	0.043	0.428
Dos	NM_015761	ref Mus musculus downstream of Stk11 (Dos), mRNA [NM_015761]	0.24	0.034	0.383
Cbr3	NM_173047	ref Mus musculus carbonyl reductase 3 (Cbr3), mRNA [NM_173047]	0.24	0.017	0.279
Nt5c	NM_015807	ref Mus musculus 5',3'-nucleotidase, cytosolic (Nt5c), mRNA [NM_015807]	0.24	0.030	0.365
Tox3	ENSMUST00000060304	ens TOX high mobility group box family member 3 Gene [Source:MGI Symbol;Acc:MGI:3039593] [ENSMUST00000060304]	0.23	0.037	0.399
Cnn3	NM_028044	ref Mus musculus calponin 3, acidic (Cnn3), mRNA [NM_028044]	0.23	0.044	0.432
Syt11	NM_018804	ref Mus musculus synaptotagmin XI (Syt11), mRNA [NM_018804]	0.23	0.031	0.370
Serp1	NM_030685	ref Mus musculus stress-associated endoplasmic reticulum protein 1 (Serp1), mRNA [NM_030685]	0.23	0.035	0.387
1110067D22Rik	NM_173752	ref Mus musculus RIKEN cDNA 1110067D22 gene (1110067D22Rik), mRNA [NM_173752]	0.23	0.028	0.351
Fcho2	NM_172591	ref Mus musculus FCH domain only 2 (Fcho2), mRNA [NM_172591]	0.23	0.030	0.360
Nhsl2	NM_001163610	ref Mus musculus NHS-like 2 (Nhsl2), mRNA [NM_001163610]	0.23	0.037	0.396
Zfp655	NM_028298	ref Mus musculus zinc finger protein 655 (Zfp655), transcript variant 1, mRNA [NM_028298]	0.23	0.027	0.347
LOC100044968	XM_001473421	ref PREDICTED: Mus musculus similar to modulator recognition factor 2 (LOC100044968), mRNA [XM_001473421]	0.23	0.031	0.367
chr12:21548850-21568550_R	chr12:21548850-21568550_R	lincRNA:chr12:21548850-21568550 reverse strand	0.23	0.049	0.454
ENSMUST00000105041	ENSMUST00000105041	ens histocompatibility 2, Q region locus 1 Gene [Source:MGI Symbol;Acc:MGI:95928] [ENSMUST00000105041]	0.23	0.035	0.387
ENSMUST00000030920	ENSMUST00000030920	ens RNA binding motif protein 33 Gene [Source:MGI (curated);Acc:MGI:1919670] [ENSMUST00000030920]	0.23	0.019	0.291
Thrap3	NM_146153	ref Mus musculus thyroid hormone receptor associated protein 3 (Thrap3), mRNA [NM_146153]	0.23	0.023	0.317
Fgfr1	NM_010206	ref Mus musculus fibroblast growth factor receptor 1 (Fgfr1), transcript variant 1, mRNA [NM_010206]	0.23	0.032	0.374
Gm281	XM_138893	ref PREDICTED: Mus musculus gene model 281, (NCBI) (Gm281), mRNA [XM_138893]	0.23	0.048	0.449
Tcn2	NM_015749	ref Mus musculus transcobalamin 2 (Tcn2), transcript variant 1, mRNA [NM_015749]	0.23	0.031	0.370
Gm6277	XM_001474148	ref PREDICTED: Mus musculus hypothetical protein LOC621998 (LOC621998), mRNA [XM_001474148]	0.23	0.038	0.401
Zfp236	NM_177832	ref Mus musculus zinc finger protein 236 (Zfp236), mRNA [NM_177832]	0.23	0.044	0.436
Rps8	NM_009098	ref Mus musculus ribosomal protein S8 (Rps8), mRNA [NM_009098]	0.23	0.047	0.448

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Cblb	NM_001033238	ref Mus musculus Casitas B-lineage lymphoma b (Cblb), mRNA [NM_001033238]	0.23	0.037	0.397
Zfp35	NM_011755	ref Mus musculus zinc finger protein 35 (Zfp35), mRNA [NM_011755]	0.23	0.014	0.252
S100pbp	NM_029036	ref Mus musculus S100P binding protein (S100pbp), mRNA [NM_029036]	0.23	0.030	0.360
Sdf4	NM_011341	ref Mus musculus stromal cell derived factor 4 (Sdf4), mRNA [NM_011341]	0.23	0.011	0.225
Ubxn7	NM_177633	ref Mus musculus UBX domain protein 7 (Ubxn7), mRNA [NM_177633]	0.23	0.041	0.420
Srsf7	NM_146083	ref Mus musculus serine/arginine-rich splicing factor 7 (Srsf7), mRNA [NM_146083]	0.23	0.025	0.331
Ntrk3	NM_008746	ref Mus musculus neurotrophic tyrosine kinase, receptor, type 3 (Ntrk3), transcript variant 1, mRNA [NM_008746]	0.23	0.033	0.377
Mpg	NM_010822	ref Mus musculus N-methylpurine-DNA glycosylase (Mpg), mRNA [NM_010822]	0.23	0.015	0.266
Notch3	NM_008716	ref Mus musculus Notch gene homolog 3 (Drosophila) (Notch3), mRNA [NM_008716]	0.23	0.042	0.423
Mxra8	NM_024263	ref Mus musculus matrix-remodelling associated 8 (Mxra8), mRNA [NM_024263]	0.23	0.049	0.456
Slc22a4	NM_019687	ref Mus musculus solute carrier family 22 (organic cation transporter), member 4 (Slc22a4), mRNA [NM_019687]	0.23	0.041	0.418
Mlit3	NM_027326	ref Mus musculus myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3 (Mlit3), transcript variant 1, mRNA [NM_027326]	0.23	0.021	0.303
Agtbbp1	NM_023328	ref Mus musculus ATP/GTP binding protein 1 (Agtbbp1), transcript variant 1, mRNA [NM_023328]	0.23	0.030	0.365
Gmpr2	NM_177992	ref Mus musculus guanosine monophosphate reductase 2 (Gmpr2), mRNA [NM_177992]	0.23	0.014	0.253
Lmna	NM_019390	ref Mus musculus lamin A (Lmna), transcript variant 2, mRNA [NM_019390]	0.23	0.016	0.271
Oxsr1	ENSMUST00000040853	ens oxidative-stress responsive 1 Gene [Source:MGI (curated);Acc:MGI:1917378] [ENSMUST00000040853]	0.23	0.017	0.275
Pskh1	NM_173432	ref Mus musculus protein serine kinase H1 (Pskh1), mRNA [NM_173432]	0.23	0.049	0.456
DCP_20_9	DCP_20_9		0.23	0.049	0.455
Wwc2	NM_133791	ref Mus musculus WW, C2 and coiled-coil domain containing 2 (Wwc2), mRNA [NM_133791]	0.23	0.029	0.353
Hprt	NM_013556	ref Mus musculus hypoxanthine guanine phosphoribosyl transferase (Hprt), mRNA [NM_013556]	0.23	0.027	0.342
chr12:55844075-55898175_R	chr12:55844075-55898175_R	lincRNA:chr12:55844075-55898175 reverse strand	0.23	0.031	0.367
Mat2a	NM_145569	ref Mus musculus methionine adenosyltransferase II, alpha (Mat2a), mRNA [NM_145569]	0.23	0.047	0.448
Tmcc3	NM_172051	ref Mus musculus transmembrane and coiled coil domains 3 (Tmcc3), transcript variant 1, mRNA [NM_172051]	0.23	0.022	0.314
Bcam	NM_020486	ref Mus musculus basal cell adhesion molecule (Bcam), mRNA [NM_020486]	0.23	0.013	0.242
Hexa	NM_010421	ref Mus musculus hexosaminidase A (Hexa), mRNA [NM_010421]	0.23	0.036	0.392
chr1:52507332-52514490_R	chr1:52507332-52514490_R	lincRNA:chr1:52507332-52514490 reverse strand	0.23	0.020	0.301
Orai2	NM_178751	ref Mus musculus ORAI calcium release-activated calcium modulator 2 (Orai2), mRNA [NM_178751]	0.22	0.017	0.275
Seh1l	NM_028112	ref Mus musculus SEH1-like (S. cerevisiae (Seh1l), transcript variant 2, mRNA [NM_028112]	0.22	0.050	0.457
Tle3	NM_001083927	ref Mus musculus transducin-like enhancer of split 3, homolog of Drosophila E(spl) (Tle3), transcript variant 1, mRNA [NM_001083927]	0.22	0.020	0.301
Acap2	NM_030138	ref Mus musculus ArfGAP with coiled-coil, ankyrin repeat and PH domains 2 (Acap2), mRNA [NM_030138]	0.22	0.016	0.269

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Paox	NM_153783	ref Mus musculus polyamine oxidase (exo-N4-amino) (Paox), mRNA [NM_153783]	0.22	0.043	0.428
Jub	NM_010590	ref Mus musculus ajuba (Jub), mRNA [NM_010590]	0.22	0.012	0.237
Fam115a	NM_029930	ref Mus musculus family with sequence similarity 115, member A (Fam115a), mRNA [NM_029930]	0.22	0.040	0.413
Ggh	NM_010281	ref Mus musculus gamma-glutamyl hydrolase (Ggh), mRNA [NM_010281]	0.22	0.041	0.422
Ablim2	NM_001177696	ref Mus musculus actin-binding LIM protein 2 (Ablim2), transcript variant 1, mRNA [NM_001177696]	0.22	0.032	0.374
LOC673642	XR_030560	ref PREDICTED: Mus musculus similar to esterase D/formylglutathione hydrolase (LOC673642), misc RNA [XR_030560]	0.22	0.032	0.376
Kremen1	NM_032396	ref Mus musculus kringle containing transmembrane protein 1 (Kremen1), mRNA [NM_032396]	0.22	0.020	0.295
Tnpo1	NM_178716	ref Mus musculus transportin 1 (Tnpo1), transcript variant 1, mRNA [NM_178716]	0.22	0.037	0.399
Tbrg1	NM_025289	ref Mus musculus transforming growth factor beta regulated gene 1 (Tbrg1), mRNA [NM_025289]	0.22	0.020	0.296
Dlg5	NM_001163513	ref Mus musculus discs, large homolog 5 (Drosophila) (Dlg5), transcript variant 1, mRNA [NM_001163513]	0.22	0.042	0.426
Seh1l	NM_001039088	ref Mus musculus SEH1-like (S. cerevisiae) (Seh1l), transcript variant 1, mRNA [NM_001039088]	0.22	0.040	0.417
Trip10	NM_134125	ref Mus musculus thyroid hormone receptor interactor 10 (Trip10), mRNA [NM_134125]	0.22	0.046	0.445
ENSMUST00000065259	ENSMUST00000065259	ens Putative uncharacterized proteinTnks protein ; [Source:UniProtKB/TrEMBL;Acc:Q8BND2] [ENSMUST00000065259]	0.22	0.023	0.321
Cttn	NM_007803	ref Mus musculus cortactin (Cttn), mRNA [NM_007803]	0.22	0.047	0.446
Ctu2	NM_153775	ref Mus musculus cytosolic thiouridylase subunit 2 homolog (S. pombe) (Ctu2), mRNA [NM_153775]	0.22	0.032	0.372
Ndst2	NM_010811	ref Mus musculus N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 (Ndst2), mRNA [NM_010811]	0.22	0.040	0.416
Hadhb	NM_145558	ref Mus musculus hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (Hadhb), nuclear gene encoding mitochondrial protein, mRNA [NM_145558]	0.22	0.030	0.359
Zfp593	NM_024215	ref Mus musculus zinc finger protein 593 (Zfp593), mRNA [NM_024215]	0.22	0.019	0.291
Tor1aip2	NM_172843	ref Mus musculus torsin A interacting protein 2 (Tor1aip2), transcript variant 5, mRNA [NM_172843]	0.22	0.032	0.375
Txndc12	NM_025334	ref Mus musculus thioredoxin domain containing 12 (endoplasmic reticulum) (Txndc12), mRNA [NM_025334]	0.22	0.018	0.286
Tmem30a	NM_133718	ref Mus musculus transmembrane protein 30A (Tmem30a), mRNA [NM_133718]	0.22	0.043	0.430
Mgat5b	NM_172948	ref Mus musculus mannoside acetylglucosaminyltransferase 5, isoenzyme B (Mgat5b), mRNA [NM_172948]	0.22	0.026	0.338
Aida	NM_181732	ref Mus musculus axin interactor, dorsalization associated (Aida), mRNA [NM_181732]	0.22	0.029	0.354
Spef1	NM_027641	ref Mus musculus sperm flagellar 1 (Spef1), mRNA [NM_027641]	0.22	0.029	0.355
1500010J02Rik	NM_001013256	ref Mus musculus RIKEN cDNA 1500010J02 gene (1500010J02Rik), transcript variant 1, mRNA [NM_001013256]	0.22	0.033	0.378
Spag9	NM_027569	ref Mus musculus sperm associated antigen 9 (Spag9), transcript variant 1, mRNA [NM_027569]	0.22	0.044	0.432
Mtap4	NM_008633	ref Mus musculus microtubule-associated protein 4 (Mtap4), mRNA [NM_008633]	0.22	0.042	0.424
Mettl9	NM_021554	ref Mus musculus methyltransferase like 9 (Mettl9), mRNA [NM_021554]	0.22	0.015	0.266
Gm14398	XR_034640	ref PREDICTED: Mus musculus hypothetical LOC622592 (LOC622592), misc RNA [XR_034640]	0.22	0.043	0.428

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Cdk9	NM_130860	ref Mus musculus cyclin-dependent kinase 9 (CDC2-related kinase) (Cdk9), mRNA [NM_130860]	0.22	0.021	0.309
Tax1bp3	NM_029564	ref Mus musculus Tax1 (human T-cell leukemia virus type I) binding protein 3 (Tax1bp3), mRNA [NM_029564]	0.21	0.042	0.422
1110034B05Rik	NM_001037742	ref Mus musculus RIKEN cDNA 1110034B05 gene (1110034B05Rik), transcript variant 1, mRNA [NM_001037742]	0.21	0.027	0.346
Itgb1	NM_010578	ref Mus musculus integrin beta 1 (fibronectin receptor beta) (Itgb1), mRNA [NM_010578]	0.21	0.037	0.396
Dlc1	NM_015802	ref Mus musculus deleted in liver cancer 1 (Dlc1), mRNA [NM_015802]	0.21	0.013	0.242
Zfp593	NM_024215	ref Mus musculus zinc finger protein 593 (Zfp593), mRNA [NM_024215]	0.21	0.026	0.340
LOC100044943	XM_001473306	ref PREDICTED: Mus musculus similar to DAZ associated protein 2 (LOC100044943), mRNA [XM_001473306]	0.21	0.046	0.443
Zfp592	NM_178707	ref Mus musculus zinc finger protein 592 (Zfp592), mRNA [NM_178707]	0.21	0.027	0.348
Gba	NM_001077411	ref Mus musculus glucosidase, beta, acid (Gba), transcript variant 2, mRNA [NM_001077411]	0.21	0.033	0.378
Il17rd	NM_134437	ref Mus musculus interleukin 17 receptor D (Il17rd), mRNA [NM_134437]	0.21	0.030	0.365
Smarcal1	AF088884	gb Mus musculus HepA-related protein Harp mRNA, complete cds. [AF088884]	0.21	0.040	0.415
Rnf19a	NM_013923	ref Mus musculus ring finger protein 19A (Rnf19a), mRNA [NM_013923]	0.21	0.039	0.409
chr2:152172745-152184745_R	chr2:152172745-152184745_R	lincRNA:chr2:152172745-152184745 reverse strand	0.21	0.041	0.419
Scp2	NM_011327	ref Mus musculus sterol carrier protein 2, liver (Scp2), mRNA [NM_011327]	0.21	0.047	0.447
Tjap1	NM_028751	ref Mus musculus tight junction associated protein 1 (Tjap1), mRNA [NM_028751]	0.21	0.038	0.407
Klhl22	NM_145479	ref Mus musculus kelch-like 22 (Drosophila) (Klhl22), mRNA [NM_145479]	0.21	0.048	0.449
Smurf2	NM_025481	ref Mus musculus SMAD specific E3 ubiquitin protein ligase 2 (Smurf2), mRNA [NM_025481]	0.21	0.037	0.401
Nsa2	NM_021552	ref Mus musculus NSA2 ribosome biogenesis homolog (S. cerevisiae) (Nsa2), mRNA [NM_021552]	0.21	0.025	0.332
Vezf1	NM_016686	ref Mus musculus vascular endothelial zinc finger 1 (Vezf1), mRNA [NM_016686]	0.21	0.017	0.279
Sec24d	NM_027135	ref Mus musculus Sec24 related gene family, member D (S. cerevisiae) (Sec24d), mRNA [NM_027135]	0.21	0.020	0.294
Gas8	NM_018855	ref Mus musculus growth arrest specific 8 (Gas8), mRNA [NM_018855]	0.21	0.028	0.353
Zfp764	NM_146203	ref Mus musculus zinc finger protein 764 (Zfp764), transcript variant 1, mRNA [NM_146203]	0.21	0.022	0.311
Acadvl	NM_017366	ref Mus musculus acyl-Coenzyme A dehydrogenase, very long chain (Acadvl), nuclear gene encoding mitochondrial protein, mRNA [NM_017366]	0.21	0.023	0.317
Rlf	NM_001081013	ref Mus musculus rearranged L-myc fusion sequence (Rlf), mRNA [NM_001081013]	0.21	0.037	0.399
Srsf3	NM_013663	ref Mus musculus serine/arginine-rich splicing factor 3 (Srsf3), mRNA [NM_013663]	0.21	0.027	0.346
Dennd2a	NM_172477	ref Mus musculus DENN/MADD domain containing 2A (Dennd2a), mRNA [NM_172477]	0.21	0.017	0.275
Eif3m	NM_145380	ref Mus musculus eukaryotic translation initiation factor 3, subunit M (Eif3m), mRNA [NM_145380]	0.20	0.028	0.351
Ddx21	NM_019553	ref Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 21 (Ddx21), mRNA [NM_019553]	0.20	0.023	0.318
Acot9	NM_019736	ref Mus musculus acyl-CoA thioesterase 9 (Acot9), nuclear gene encoding mitochondrial protein, mRNA [NM_019736]	0.20	0.035	0.387

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
Rnf4	NM_011278	ref Mus musculus ring finger protein 4 (Rnf4), mRNA [NM_011278]	0.20	0.016	0.272
Eif3h	NM_080635	ref Mus musculus eukaryotic translation initiation factor 3, subunit H (Eif3h), mRNA [NM_080635]	0.20	0.029	0.353
Smarcal1	NM_018817	ref Mus musculus SWI/SNF related matrix associated, actin dependent regulator of chromatin, subfamily a-like 1 (Smarcal1), mRNA [NM_018817]	0.20	0.042	0.425
Arid1a	NM_001080819	ref Mus musculus AT rich interactive domain 1A (SWI-like) (Arid1a), mRNA [NM_001080819]	0.20	0.035	0.387
Klhl5	NM_175174	ref Mus musculus kelch-like 5 (Drosophila) (Klhl5), mRNA [NM_175174]	0.20	0.049	0.455
ENSMUST00000091492	ENSMUST00000091492	ref PREDICTED: Mus musculus similar to ribosomal protein S28 (LOC621588), mRNA [XM_001477527]	0.20	0.018	0.285
Tef	NM_017376	ref Mus musculus thyrotroph embryonic factor (Tef), transcript variant 1, mRNA [NM_017376]	0.20	0.048	0.450
Man2b1	NM_010764	ref Mus musculus mannosidase 2, alpha B1 (Man2b1), mRNA [NM_010764]	0.20	0.024	0.327
Phf13	NM_172705	ref Mus musculus PHD finger protein 13 (Phf13), mRNA [NM_172705]	0.20	0.025	0.332
Actn2	NM_033268	ref Mus musculus actinin alpha 2 (Actn2), mRNA [NM_033268]	0.20	0.022	0.314
ENSMUST00000085163	ENSMUST00000085163	ref PREDICTED: Mus musculus similar to 40S ribosomal protein S28 (LOC100042171), mRNA [XM_001477681]	0.20	0.027	0.342
chr8:114477602-114488627_F	chr8:114477602-114488627_F	lincRNA:chr8:114477602-114488627 forward strand	0.20	0.047	0.446
Bbs9	NM_178415	ref Mus musculus Bardet-Biedl syndrome 9 (human) (Bbs9), transcript variant 1, mRNA [NM_178415]	0.20	0.044	0.433
Sumf1	NM_145937	ref Mus musculus sulfatase modifying factor 1 (Sumf1), mRNA [NM_145937]	0.20	0.050	0.458
Flot1	NM_008027	ref Mus musculus flotillin 1 (Flot1), mRNA [NM_008027]	0.20	0.028	0.351
Fam63a	NM_133858	ref Mus musculus family with sequence similarity 63, member A (Fam63a), mRNA [NM_133858]	0.20	0.048	0.452
BC031781	NM_145943	ref Mus musculus cDNA sequence BC031781 (BC031781), mRNA [NM_145943]	0.20	0.040	0.415
Accn4	NM_183022	ref Mus musculus amiloride-sensitive cation channel 4, pituitary (Accn4), mRNA [NM_183022]	0.20	0.036	0.395
1500011H22Rik	NM_026883	ref Mus musculus RIKEN cDNA 1500011H22 gene (1500011H22Rik), mRNA [NM_026883]	0.20	0.024	0.329
Il6st	NM_010560	ref Mus musculus interleukin 6 signal transducer (Il6st), mRNA [NM_010560]	0.20	0.033	0.380
Ap2m1	NM_009679	ref Mus musculus adaptor protein complex AP-2, mu 1 (Ap2m1), mRNA [NM_009679]	0.20	0.049	0.455
Tpd52	NM_001025262	ref Mus musculus tumor protein D52 (Tpd52), transcript variant 2, mRNA [NM_001025262]	0.20	0.032	0.372
Gm6506	XM_001478894	ref PREDICTED: Mus musculus hypothetical LOC624454 (LOC624454), mRNA [XM_001478894]	0.20	0.033	0.379
Arhgef6	NM_152801	ref Mus musculus Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 (Arhgef6), mRNA [NM_152801]	0.20	0.037	0.399
Hcls1	NM_008225	ref Mus musculus hematopoietic cell specific Lyn substrate 1 (Hcls1), mRNA [NM_008225]	0.19	0.026	0.336
Dph5	NM_027193	ref Mus musculus DPH5 homolog (S. cerevisiae) (Dph5), mRNA [NM_027193]	0.19	0.026	0.337
Dph1	NM_144491	ref Mus musculus DPH1 homolog (S. cerevisiae) (Dph1), mRNA [NM_144491]	0.19	0.030	0.362
Ppp1r9b	NM_172261	ref Mus musculus protein phosphatase 1, regulatory subunit 9B (Ppp1r9b), mRNA [NM_172261]	0.19	0.040	0.416
Iars	NM_172015	ref Mus musculus isoleucine-tRNA synthetase (Iars), mRNA [NM_172015]	0.19	0.032	0.372
Tbc1d5	NM_028162	ref Mus musculus TBC1 domain family, member 5 (Tbc1d5), mRNA [NM_028162]	0.19	0.029	0.356
Mocos	NM_026779	ref Mus musculus molybdenum cofactor sulfuryase (Mocos), mRNA [NM_026779]	0.19	0.037	0.398

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
LOC270362	XM_905656	ref PREDICTED: Mus musculus similar to acidic ribosomal phosphoprotein P1 (LOC270362), mRNA [XM_905656]	0.19	0.041	0.418
Smurf2	NM_025481	ref Mus musculus SMAD specific E3 ubiquitin protein ligase 2 (Smurf2), mRNA [NM_025481]	0.19	0.042	0.426
Syap1	NM_025932	ref Mus musculus synapse associated protein 1 (Syap1), mRNA [NM_025932]	0.19	0.032	0.376
Gnptg	NM_172529	ref Mus musculus N-acetylglucosamine-1-phosphotransferase, gamma subunit (Gnptg), mRNA [NM_172529]	0.19	0.045	0.438
Nup153	NM_175749	ref Mus musculus nucleoporin 153 (Nup153), mRNA [NM_175749]	0.19	0.046	0.444
Dcaf13	NM_198606	ref Mus musculus DDB1 and CUL4 associated factor 13 (Dcaf13), mRNA [NM_198606]	0.19	0.039	0.412
Hook2	NM_133255	ref Mus musculus hook homolog 2 (Drosophila) (Hook2), transcript variant 1, mRNA [NM_133255]	0.19	0.041	0.418
LOC100048326	XR_034501	ref PREDICTED: Mus musculus similar to Acidic ribosomal phosphoprotein P0 (LOC100048326), misc RNA [XR_034501]	0.19	0.047	0.448
Gnas	NM_001077510	ref Mus musculus GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus (Gnas), transcript variant 8, mRNA [NM_001077510]	0.19	0.033	0.376
Rpl12-ps1	ENSMUST00000116168	ref PREDICTED: Mus musculus predicted gene, EG633570 (EG633570), mRNA [XM_001001613]	0.18	0.031	0.368
Ddx42	NM_028074	ref Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 42 (Ddx42), mRNA [NM_028074]	0.18	0.034	0.383
Chmp4b	NM_029362	ref Mus musculus chromatin modifying protein 4B (Chmp4b), mRNA [NM_029362]	0.18	0.027	0.344
Klraq1	NM_028658	ref Mus musculus KLRAQ motif containing 1 (Klraq1), mRNA [NM_028658]	0.18	0.042	0.422
Ifitm2	NM_030694	ref Mus musculus interferon induced transmembrane protein 2 (Ifitm2), mRNA [NM_030694]	0.18	0.034	0.383
Gar1	NM_026578	ref Mus musculus GAR1 ribonucleoprotein homolog (yeast) (Gar1), mRNA [NM_026578]	0.18	0.042	0.423
Nat6	NM_019750	ref Mus musculus N-acetyltransferase 6 (Nat6), mRNA [NM_019750]	0.18	0.047	0.448
chr8:119732348-119749198_F	chr8:119732348-119749198_F	lincRNA:chr8:119732348-119749198 forward strand	0.17	0.050	0.457
Gm14730	XR_031372	ref PREDICTED: Mus musculus similar to heterogeneous nuclear ribonucleoprotein A3 (LOC547219), misc RNA [XR_031372]	0.17	0.049	0.456
Strada	NM_028126	ref Mus musculus STE20-related kinase adaptor alpha (Strada), mRNA [NM_028126]	0.17	0.043	0.428
Naa35	NM_030153	ref Mus musculus N(alpha)-acetyltransferase 35, NatC auxiliary subunit (Naa35), mRNA [NM_030153]	0.17	0.042	0.423
Clk4	NM_007714	ref Mus musculus CDC like kinase 4 (Clk4), mRNA [NM_007714]	0.17	0.044	0.432
Cdad1	NM_027986	ref Mus musculus cytidine and dCMP deaminase domain containing 1 (Cdad1), transcript variant 2, mRNA [NM_027986]	0.16	0.045	0.438
Npep1	NM_213733	ref Mus musculus aminopeptidase-like 1 (Npep1), mRNA [NM_213733]	-0.16	0.050	0.457
Map2k2	NM_023138	ref Mus musculus mitogen-activated protein kinase kinase 2 (Map2k2), mRNA [NM_023138]	-0.16	0.050	0.457
Snx25	NM_207213	ref Mus musculus sorting nexin 25 (Snx25), mRNA [NM_207213]	-0.17	0.048	0.451
Pdcl	NM_026176	ref Mus musculus phosducin-like (Pdcl), mRNA [NM_026176]	-0.17	0.038	0.407
Mmgt1	NM_146234	ref Mus musculus membrane magnesium transporter 1 (Mmgt1), mRNA [NM_146234]	-0.17	0.047	0.447
Gm12693	XM_001472546	ref PREDICTED: Mus musculus similar to small androgen receptor-interacting protein (LOC100039252), mRNA [XM_001472546]	-0.17	0.044	0.431

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Ube2d3	NM_025356	ref Mus musculus ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast) (Ube2d3), mRNA [NM_025356]	-0.17	0.043	0.428
Gtf3a	NM_025652	ref Mus musculus general transcription factor III A (Gtf3a), mRNA [NM_025652]	-0.17	0.045	0.436
1700040I03Rik	NM_001163427	ref Mus musculus RIKEN cDNA 1700040I03 gene (1700040I03Rik), transcript variant 2, mRNA [NM_001163427]	-0.17	0.044	0.435
Sec23a	NM_009147	ref Mus musculus SEC23A (S. cerevisiae) (Sec23a), mRNA [NM_009147]	-0.18	0.050	0.458
Brwd1	NM_145125	ref Mus musculus bromodomain and WD repeat domain containing 1 (Brwd1), transcript variant 1, mRNA [NM_145125]	-0.18	0.033	0.376
Zc3hc1	NM_172735	ref Mus musculus zinc finger, C3HC type 1 (Zc3hc1), mRNA [NM_172735]	-0.18	0.048	0.449
Ept1	NM_027652	ref Mus musculus ethanolaminephosphotransferase 1 (CDP-ethanolamine-specific) (Ept1), mRNA [NM_027652]	-0.18	0.041	0.421
Usmg5	NM_023211	ref Mus musculus upregulated during skeletal muscle growth 5 (Usmg5), mRNA [NM_023211]	-0.18	0.030	0.360
Ndufb4	NM_026610	ref Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex 4 (Ndufb4), nuclear gene encoding mitochondrial protein, mRNA [NM_026610]	-0.18	0.048	0.451
Tmpo	NM_001080129	ref Mus musculus thymopoietin (Tmpo), transcript variant 3, mRNA [NM_001080129]	-0.18	0.032	0.374
Gm6415	XM_889816	ref PREDICTED: Mus musculus predicted gene, EG623286 (EG623286), mRNA [XM_889816]	-0.18	0.040	0.417
Fastkd3	NM_027123	ref Mus musculus FAST kinase domains 3 (Fastkd3), mRNA [NM_027123]	-0.18	0.048	0.451
ENSMUST00000097276	ENSMUST00000097276	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3TYI1] [ENSMUST00000097276]	-0.18	0.041	0.418
Apip	NM_019735	ref Mus musculus APAF1 interacting protein (Apip), mRNA [NM_019735]	-0.18	0.042	0.423
Uqcr11	NM_025650	ref Mus musculus ubiquinol-cytochrome c reductase, complex III subunit XI (Uqcr11), nuclear gene encoding mitochondrial protein, mRNA [NM_025650]	-0.18	0.046	0.441
Ece2	NM_025462	ref Mus musculus endothelin converting enzyme 2 (Ece2), transcript variant 3, mRNA [NM_025462]	-0.18	0.041	0.419
Armc8	NM_028768	ref Mus musculus armadillo repeat containing 8 (Armc8), transcript variant 1, mRNA [NM_028768]	-0.18	0.037	0.396
Tmem131	NM_018872	ref Mus musculus transmembrane protein 131 (Tmem131), mRNA [NM_018872]	-0.18	0.032	0.372
Wdyhv1	NM_029734	ref Mus musculus WDYHV motif containing 1 (Wdyhv1), mRNA [NM_029734]	-0.18	0.044	0.430
Atg12	NM_026217	ref Mus musculus autophagy-related 12 (yeast) (Atg12), mRNA [NM_026217]	-0.18	0.035	0.388
Hras1	NM_008284	ref Mus musculus Harvey rat sarcoma virus oncogene 1 (Hras1), transcript variant 1, mRNA [NM_008284]	-0.19	0.044	0.435
Uck1	NM_011675	ref Mus musculus uridine-cytidine kinase 1 (Uck1), mRNA [NM_011675]	-0.19	0.046	0.444
Aagab	NM_025857	ref Mus musculus alpha- and gamma-adaptin binding protein (Aagab), mRNA [NM_025857]	-0.19	0.038	0.405
Uqcrq	NM_025352	ref Mus musculus ubiquinol-cytochrome c reductase, complex III subunit VII (Uqcrq), nuclear gene encoding mitochondrial protein, mRNA [NM_025352]	-0.19	0.035	0.388
B230118H07Rik	NM_026592	ref Mus musculus RIKEN cDNA B230118H07 gene (B230118H07Rik), mRNA [NM_026592]	-0.19	0.040	0.415
Cyc1	NM_025567	ref Mus musculus cytochrome c-1 (Cyc1), nuclear gene encoding mitochondrial protein, mRNA [NM_025567]	-0.19	0.031	0.371
Ubl4	NM_145405	ref Mus musculus ubiquitin-like 4 (Ubl4), mRNA [NM_145405]	-0.19	0.041	0.421

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Mrps21	NM_078479	ref Mus musculus mitochondrial ribosomal protein S21 (Mrps21), nuclear gene encoding mitochondrial protein, mRNA [NM_078479]	-0.19	0.039	0.411
Hmbs	NM_013551	ref Mus musculus hydroxymethylbilane synthase (Hmbs), transcript variant 1, mRNA [NM_013551]	-0.19	0.050	0.458
Copz2	NM_019877	ref Mus musculus coatomer protein complex, subunit zeta 2 (Copz2), mRNA [NM_019877]	-0.19	0.045	0.439
Hps4	NM_138646	ref Mus musculus Hermansky-Pudlak syndrome 4 homolog (human) (Hps4), mRNA [NM_138646]	-0.19	0.035	0.387
Llg12	NM_145438	ref Mus musculus lethal giant larvae homolog 2 (Drosophila) (Llg12), mRNA [NM_145438]	-0.19	0.046	0.445
Mrpl32	NM_029271	ref Mus musculus mitochondrial ribosomal protein L32 (Mrpl32), nuclear gene encoding mitochondrial protein, mRNA [NM_029271]	-0.19	0.042	0.424
lqsec1	NM_001134384	ref Mus musculus IQ motif and Sec7 domain 1 (lqsec1), transcript variant 2, mRNA [NM_001134384]	-0.19	0.038	0.407
chr13:58474388-58487288_R	chr13:58474388-58487288_R	lincRNA:chr13:58474388-58487288 reverse strand	-0.19	0.045	0.440
Katnb1	NM_028805	ref Mus musculus katanin p80 (WD40-containing) subunit B 1 (Katnb1), mRNA [NM_028805]	-0.19	0.033	0.379
Syng2	NM_009304	ref Mus musculus synaptogyrin 2 (Syng2), mRNA [NM_009304]	-0.19	0.024	0.326
chr16:32309935-32328234_R	chr16:32309935-32328234_R	lincRNA:chr16:32309935-32328234 reverse strand	-0.19	0.048	0.452
Dap3	NM_022994	ref Mus musculus death associated protein 3 (Dap3), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA [NM_022994]	-0.19	0.040	0.416
Ppid	NM_026352	ref Mus musculus peptidylprolyl isomerase D (cyclophilin D) (Ppid), mRNA [NM_026352]	-0.19	0.040	0.413
2310008H09Rik	NM_023197	ref Mus musculus RIKEN cDNA 2310008H09 gene (2310008H09Rik), transcript variant 1, mRNA [NM_023197]	-0.19	0.025	0.332
Poldip2	NM_026389	ref Mus musculus polymerase (DNA-directed), delta interacting protein 2 (Poldip2), mRNA [NM_026389]	-0.19	0.043	0.428
Mrpl27	NM_053161	ref Mus musculus mitochondrial ribosomal protein L27 (Mrpl27), nuclear gene encoding mitochondrial protein, mRNA [NM_053161]	-0.20	0.025	0.332
Timm23	NM_016897	ref Mus musculus translocase of inner mitochondrial membrane 23 homolog (yeast) (Timm23), nuclear gene encoding mitochondrial protein, mRNA [NM_016897]	-0.20	0.033	0.376
Tmod1	NM_021883	ref Mus musculus tropomodulin 1 (Tmod1), mRNA [NM_021883]	-0.20	0.035	0.388
Amz2	NM_025275	ref Mus musculus archaelysin family metalloproteinase 2 (Amz2), mRNA [NM_025275]	-0.20	0.040	0.414
Rad17	NM_011233	ref Mus musculus RAD17 homolog (S. pombe) (Rad17), transcript variant 1, mRNA [NM_011233]	-0.20	0.036	0.392
Tardbp	NM_001008546	ref Mus musculus TAR DNA binding protein (Tardbp), transcript variant 4, mRNA [NM_001008546]	-0.20	0.037	0.400
Obscn	NM_001171512	ref Mus musculus obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF (Obscn), transcript variant 1, mRNA [NM_001171512]	-0.20	0.021	0.304
1110012J17Rik	NM_001114098	ref Mus musculus RIKEN cDNA 1110012J17 gene (1110012J17Rik), transcript variant 1, mRNA [NM_001114098]	-0.20	0.039	0.408
Pacrgl	NM_025755	ref Mus musculus PARK2 co-regulated-like (Pacrgl), mRNA [NM_025755]	-0.20	0.028	0.348
Pgk1-rs7	XR_035357	ref PREDICTED: Mus musculus predicted gene, EG668435 (EG668435), misc RNA [XR_035357]	-0.20	0.019	0.290
Dcun1d5	NM_029775	ref Mus musculus DCN1, defective in cullin neddylation 1, domain containing 5 (S. cerevisiae) (Dcun1d5), mRNA [NM_029775]	-0.20	0.025	0.332

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Mto1	NM_026658	ref Mus musculus mitochondrial translation optimization 1 homolog (S. cerevisiae) (Mto1), nuclear gene encoding mitochondrial protein, mRNA [NM_026658]	-0.20	0.040	0.417
Prdx6	NM_007453	ref Mus musculus peroxiredoxin 6 (Prdx6), mRNA [NM_007453]	-0.20	0.038	0.404
Cox7b	NM_025379	ref Mus musculus cytochrome c oxidase subunit VIIb (Cox7b), nuclear gene encoding mitochondrial protein, mRNA [NM_025379]	-0.20	0.049	0.453
Psme2	NM_011190	ref Mus musculus proteasome (prosome, macropain) 28 subunit, beta (Psme2), transcript variant 1, mRNA [NM_011190]	-0.20	0.042	0.423
5730437N04Rik	NM_027457	ref Mus musculus RIKEN cDNA 5730437N04 gene (5730437N04Rik), mRNA [NM_027457]	-0.20	0.040	0.413
Tmem110	NM_028839	ref Mus musculus transmembrane protein 110 (Tmem110), mRNA [NM_028839]	-0.20	0.048	0.449
Fert2	NM_001037997	ref Mus musculus fer (fms/fps related) protein kinase, testis specific 2 (Fert2), transcript variant 1, mRNA [NM_001037997]	-0.20	0.039	0.411
Fam125a	NM_028617	ref Mus musculus family with sequence similarity 125, member A (Fam125a), mRNA [NM_028617]	-0.20	0.033	0.380
Atxn1	NM_009124	ref Mus musculus ataxin 1 (Atxn1), mRNA [NM_009124]	-0.20	0.048	0.449
Zdhhc9	NM_172465	ref Mus musculus zinc finger, DHHC domain containing 9 (Zdhhc9), mRNA [NM_172465]	-0.20	0.028	0.352
Tmem53	NM_026837	ref Mus musculus transmembrane protein 53 (Tmem53), mRNA [NM_026837]	-0.20	0.049	0.454
LOC100046838	XM_001476461	ref PREDICTED: Mus musculus hypothetical protein LOC100046838 (LOC100046838), mRNA [XM_001476461]	-0.20	0.025	0.330
Tmem14c	NM_025387	ref Mus musculus transmembrane protein 14C (Tmem14c), mRNA [NM_025387]	-0.20	0.037	0.398
Dexi	NM_021428	ref Mus musculus dexamethasone-induced transcript (Dexi), mRNA [NM_021428]	-0.20	0.037	0.400
Ttc35	NM_025736	ref Mus musculus tetratricopeptide repeat domain 35 (Ttc35), mRNA [NM_025736]	-0.20	0.020	0.295
Mitf	NM_001113198	ref Mus musculus microphthalmia-associated transcription factor (Mitf), transcript variant 1, mRNA [NM_001113198]	-0.20	0.040	0.416
Mrpl16	NM_025606	ref Mus musculus mitochondrial ribosomal protein L16 (Mrpl16), nuclear gene encoding mitochondrial protein, mRNA [NM_025606]	-0.20	0.022	0.314
ENSMUST00000107819	ENSMUST00000107819	ens glyoxylate reductase/hydroxypyruvate reductase Gene [Source:MGI (curated);Acc:MGI:1923488] [ENSMUST00000107819]	-0.20	0.036	0.393
chr6:122741562-122743423_R	chr6:122741562-122743423_R	lincRNA:chr6:122741562-122743423 reverse strand	-0.21	0.047	0.447
Clpp	NM_017393	ref Mus musculus caseinolytic peptidase, ATP-dependent, proteolytic subunit homolog (E. coli) (Clpp), mRNA [NM_017393]	-0.21	0.033	0.377
ENSMUST00000106471	ENSMUST00000106471	ens NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1 Gene [Source:MGI (curated);Acc:MGI:1917566] [ENSMUST00000106471]	-0.21	0.017	0.280
Gm5514	XM_899874	ref PREDICTED: Mus musculus predicted gene, EG433229, transcript variant 7 (EG433229), mRNA [XM_899874]	-0.21	0.026	0.342
Atp5d	NM_025313	ref Mus musculus ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit (Atp5d), nuclear gene encoding mitochondrial protein, mRNA [NM_025313]	-0.21	0.018	0.283
R3hcc1	NM_001146012	ref Mus musculus R3H domain and coiled-coil containing 1 (R3hcc1), mRNA [NM_001146012]	-0.21	0.047	0.446

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
0610037P05Rik	NM_025345	ref Mus musculus RIKEN cDNA 0610037P05 gene (0610037P05Rik), mRNA [NM_025345]	-0.21	0.035	0.387
Arfgef1	NM_001102430	ref Mus musculus ADP-ribosylation factor guanine nucleotide-exchange factor 1(brefeldin A-inhibited) (Arfgef1), mRNA [NM_001102430]	-0.21	0.025	0.330
Pank2	NM_153501	ref Mus musculus pantothenate kinase 2 (Hallervorden-Spatz syndrome) (Pank2), nuclear gene encoding mitochondrial protein, mRNA [NM_153501]	-0.21	0.038	0.405
Canx	NM_007597	ref Mus musculus calnexin (Canx), transcript variant 1, mRNA [NM_007597]	-0.21	0.025	0.330
2010001M09Rik	NM_027222	ref Mus musculus RIKEN cDNA 2010001M09 gene (2010001M09Rik), mRNA [NM_027222]	-0.21	0.028	0.351
Grb2	NM_008163	ref Mus musculus growth factor receptor bound protein 2 (Grb2), mRNA [NM_008163]	-0.21	0.027	0.342
Synpo2l	NM_175132	ref Mus musculus synaptopodin 2-like (Synpo2l), mRNA [NM_175132]	-0.21	0.036	0.392
chr14:76237150-76237464_R	chr14:76237150-76237464_R	lincRNA:chr14:76237150-76237464 reverse strand	-0.21	0.032	0.372
Abhd11	NM_145215	ref Mus musculus abhydrolase domain containing 11 (Abhd11), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_145215]	-0.21	0.045	0.437
Polrmt	NM_172551	ref Mus musculus polymerase (RNA) mitochondrial (DNA directed) (Polrmt), nuclear gene encoding mitochondrial protein, mRNA [NM_172551]	-0.21	0.047	0.446
Mettl14	NM_201638	ref Mus musculus methyltransferase like 14 (Mettl14), mRNA [NM_201638]	-0.21	0.049	0.455
Ing4	NM_133345	ref Mus musculus inhibitor of growth family, member 4 (Ing4), mRNA [NM_133345]	-0.21	0.045	0.439
Fert2	NM_001037997	ref Mus musculus fer (fms/fps related) protein kinase, testis specific 2 (Fert2), transcript variant 1, mRNA [NM_001037997]	-0.21	0.025	0.332
Yipf4	NM_026417	ref Mus musculus Yip1 domain family, member 4 (Yipf4), mRNA [NM_026417]	-0.21	0.025	0.330
Dand5	NM_201227	ref Mus musculus DAN domain family, member 5 (Dand5), transcript variant 1, mRNA [NM_201227]	-0.21	0.031	0.367
Gm13464	XM_001472735	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC100044628), mRNA [XM_001472735]	-0.21	0.045	0.438
Bat2l	NM_172661	ref Mus musculus HLA-B associated transcript 2-like (Bat2l), transcript variant 2, mRNA [NM_172661]	-0.21	0.042	0.425
Mrpl20	NM_025570	ref Mus musculus mitochondrial ribosomal protein L20 (Mrpl20), nuclear gene encoding mitochondrial protein, mRNA [NM_025570]	-0.21	0.033	0.376
Zfp318	NM_021346	ref Mus musculus zinc finger protein 318 (Zfp318), transcript variant 2, mRNA [NM_021346]	-0.21	0.048	0.449
Nacc2	NM_001037098	ref Mus musculus nucleus accumbens associated 2, BEN and BTB (POZ) domain containing (Nacc2), transcript variant 2, mRNA [NM_001037098]	-0.21	0.036	0.392
2700029M09Rik	NM_028299	ref Mus musculus RIKEN cDNA 2700029M09 gene (2700029M09Rik), mRNA [NM_028299]	-0.21	0.016	0.273
Zfp512	NM_172993	ref Mus musculus zinc finger protein 512 (Zfp512), mRNA [NM_172993]	-0.21	0.043	0.427
Med6	NM_027213	ref Mus musculus mediator of RNA polymerase II transcription, subunit 6 homolog (yeast) (Med6), mRNA [NM_027213]	-0.21	0.028	0.348
Gmpr	NM_025508	ref Mus musculus guanosine monophosphate reductase (Gmpr), mRNA [NM_025508]	-0.21	0.041	0.420
Fastkd1	NM_177244	ref Mus musculus FAST kinase domains 1 (Fastkd1), mRNA [NM_177244]	-0.21	0.037	0.398
Zfp276	NM_020497	ref Mus musculus zinc finger protein (C2H2 type) 276 (Zfp276), mRNA [NM_020497]	-0.21	0.050	0.457
2700089E24Rik	NM_001163445	ref Mus musculus RIKEN cDNA 2700089E24 gene (2700089E24Rik), mRNA [NM_001163445]	-0.21	0.017	0.280

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Gde1	NM_019580	ref Mus musculus glycerophosphodiester phosphodiesterase 1 (Gde1), mRNA [NM_019580]	-0.21	0.029	0.356
Taf2	NM_001081288	ref Mus musculus TAF2 RNA polymerase II, TATA box binding protein (TBP)-associated factor (Taf2), mRNA [NM_001081288]	-0.21	0.043	0.428
Tmem116	NM_001161627	ref Mus musculus transmembrane protein 116 (Tmem116), transcript variant 1, mRNA [NM_001161627]	-0.21	0.048	0.451
Asb18	NM_139152	ref Mus musculus ankyrin repeat and SOCS box-containing 18 (Asb18), mRNA [NM_139152]	-0.21	0.045	0.440
Mrpl10	NM_026154	ref Mus musculus mitochondrial ribosomal protein L10 (Mrpl10), nuclear gene encoding mitochondrial protein, mRNA [NM_026154]	-0.21	0.042	0.426
4930471M23Rik	NM_175675	ref Mus musculus RIKEN cDNA 4930471M23 gene (4930471M23Rik), mRNA [NM_175675]	-0.21	0.047	0.446
Ndufv3	NM_030087	ref Mus musculus NADH dehydrogenase (ubiquinone) flavoprotein 3 (Ndufv3), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_030087]	-0.21	0.037	0.399
Mlh1	NM_026810	ref Mus musculus mutL homolog 1 (E. coli) (Mlh1), mRNA [NM_026810]	-0.21	0.035	0.388
Uqcrc1	NM_025407	ref Mus musculus ubiquinol-cytochrome c reductase core protein 1 (Uqcrc1), mRNA [NM_025407]	-0.21	0.036	0.392
Exosc4	NM_175399	ref Mus musculus exosome component 4 (Exosc4), mRNA [NM_175399]	-0.21	0.018	0.286
chr1:158903230-158984165_R	chr1:158903230-158984165_R	lincRNA:chr1:158903230-158984165 reverse strand	-0.22	0.047	0.447
Mrps23	NM_024174	ref Mus musculus mitochondrial ribosomal protein S23 (Mrps23), nuclear gene encoding mitochondrial protein, mRNA [NM_024174]	-0.22	0.027	0.347
Osgin2	NM_145950	ref Mus musculus oxidative stress induced growth inhibitor family member 2 (Osgin2), mRNA [NM_145950]	-0.22	0.031	0.368
Tab3	NM_025729	ref Mus musculus TGF-beta activated kinase 1/MAP3K7 binding protein 3 (Tab3), mRNA [NM_025729]	-0.22	0.032	0.372
Atp1a2	NM_178405	ref Mus musculus ATPase, Na+/K+ transporting, alpha 2 polypeptide (Atp1a2), mRNA [NM_178405]	-0.22	0.044	0.432
Ppapdc2	NM_028922	ref Mus musculus phosphatidic acid phosphatase type 2 domain containing 2 (Ppapdc2), mRNA [NM_028922]	-0.22	0.026	0.340
Isoc1	NM_025478	ref Mus musculus isochorismatase domain containing 1 (Isoc1), mRNA [NM_025478]	-0.22	0.018	0.282
chr6:11994002-11997859_F	chr6:11994002-11997859_F	lincRNA:chr6:11994002-11997859 forward strand	-0.22	0.040	0.416
Fdx1	NM_007996	ref Mus musculus ferredoxin 1 (Fdx1), nuclear gene encoding mitochondrial protein, mRNA [NM_007996]	-0.22	0.029	0.356
ENSMUST00000089502	ENSMUST00000089502	ens crystallin, lambda 1 Gene [Source:MGI Symbol;Acc:MGI:1915881] [ENSMUST00000089502]	-0.22	0.031	0.367
Gm6304	XM_001474657	ref PREDICTED: Mus musculus predicted gene, EG622268 (EG622268), mRNA [XM_001474657]	-0.22	0.039	0.409
chr10:81680941-81704964_F	chr10:81680941-81704964_F	lincRNA:chr10:81680941-81704964 forward strand	-0.22	0.029	0.359
Ccdc45	NM_177088	ref Mus musculus coiled-coil domain containing 45 (Ccdc45), transcript variant 1, mRNA [NM_177088]	-0.22	0.022	0.315
Uqcrb	NM_026219	ref Mus musculus ubiquinol-cytochrome c reductase binding protein (Uqcrb), nuclear gene encoding mitochondrial protein, mRNA [NM_026219]	-0.22	0.024	0.326
Timm50	NM_025616	ref Mus musculus translocase of inner mitochondrial membrane 50 homolog (yeast) (Timm50), nuclear gene encoding mitochondrial protein, mRNA [NM_025616]	-0.22	0.026	0.339
Gm9897	NM_001042670	ref Mus musculus predicted gene 9897 (Gm9897), nuclear gene encoding mitochondrial protein, mRNA [NM_001042670]	-0.22	0.049	0.456
Smpd4	NM_029945	ref Mus musculus sphingomyelin phosphodiesterase 4 (Smpd4), transcript variant 1, mRNA [NM_029945]	-0.22	0.036	0.393

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Prdx6	NM_007453	ref Mus musculus peroxiredoxin 6 (Prdx6), mRNA [NM_007453]	-0.22	0.029	0.354
Abcc9	NM_021041	ref Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 9 (Abcc9), transcript variant 2, mRNA [NM_021041]	-0.22	0.030	0.365
Pisd	NM_177298	ref Mus musculus phosphatidylserine decarboxylase (Pisd), mRNA [NM_177298]	-0.22	0.031	0.368
Ola1	NM_025942	ref Mus musculus Obg-like ATPase 1 (Ola1), transcript variant 1, mRNA [NM_025942]	-0.22	0.047	0.446
Dpcd	NM_172639	ref Mus musculus deleted in primary ciliary dyskinesia (Dpcd), mRNA [NM_172639]	-0.22	0.019	0.291
Cgrrf1	NM_026832	ref Mus musculus cell growth regulator with ring finger domain 1 (Cgrrf1), mRNA [NM_026832]	-0.22	0.041	0.418
Gm7928	XR_033855	ref PREDICTED: Mus musculus similar to PA28 beta subunit (LOC66098), misc RNA [XR_033855]	-0.22	0.023	0.316
Nudt22	NM_026675	ref Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 22 (Nudt22), mRNA [NM_026675]	-0.22	0.029	0.354
Cenpv	NM_028448	ref Mus musculus centromere protein V (Cenpv), mRNA [NM_028448]	-0.22	0.027	0.347
Ndufv3	NM_030087	ref Mus musculus NADH dehydrogenase (ubiquinone) flavoprotein 3 (Ndufv3), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_030087]	-0.22	0.022	0.315
Pigv	NM_178698	ref Mus musculus phosphatidylinositol glycan anchor biosynthesis, class V (Pigv), transcript variant 1, mRNA [NM_178698]	-0.22	0.029	0.356
Ubxn2b	NM_026534	ref Mus musculus UBX domain protein 2B (Ubxn2b), mRNA [NM_026534]	-0.22	0.037	0.399
C030006K11Rik	NM_176828	ref Mus musculus RIKEN cDNA C030006K11 gene (C030006K11Rik), transcript variant 2, mRNA [NM_176828]	-0.22	0.023	0.317
Brp44	NM_027430	ref Mus musculus brain protein 44 (Brp44), mRNA [NM_027430]	-0.22	0.021	0.304
Park2	NM_016694	ref Mus musculus Parkinson disease (autosomal recessive, juvenile) 2, parkin (Park2), mRNA [NM_016694]	-0.22	0.025	0.332
Stard3	NM_021547	ref Mus musculus START domain containing 3 (Stard3), mRNA [NM_021547]	-0.22	0.036	0.392
Hsd3b2	ENSMUST00000107022	ens hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2 Gene [Source:MGI (curated);Acc:MGI:96234] [ENSMUST00000107022]	-0.22	0.042	0.423
Magea6	NM_020019	ref Mus musculus melanoma antigen, family A, 6 (Magea6), mRNA [NM_020019]	-0.22	0.046	0.443
Il10rb	NM_008349	ref Mus musculus interleukin 10 receptor, beta (Il10rb), mRNA [NM_008349]	-0.22	0.025	0.332
Zmiz2	NM_028601	ref Mus musculus zinc finger, MIZ-type containing 2 (Zmiz2), transcript variant 1, mRNA [NM_028601]	-0.22	0.016	0.267
Gm6746	XM_894970	ref PREDICTED: Mus musculus predicted gene, EG627342 (EG627342), mRNA [XM_894970]	-0.22	0.030	0.365
E130309D02Rik	NM_172726	ref Mus musculus RIKEN cDNA E130309D02 gene (E130309D02Rik), mRNA [NM_172726]	-0.22	0.032	0.374
chr2:176784125-177183100_F	chr2:176784125-177183100_F	lincRNA:chr2:176784125-177183100 forward strand	-0.22	0.047	0.446
Nup37	NM_028334	ref Mus musculus nucleoporin 37 (Nup37), transcript variant 1, mRNA [NM_028334]	-0.22	0.049	0.456
Metap1	NM_175224	ref Mus musculus methionyl aminopeptidase 1 (Metap1), mRNA [NM_175224]	-0.22	0.018	0.282
Tulp3	NM_011657	ref Mus musculus tubby-like protein 3 (Tulp3), mRNA [NM_011657]	-0.22	0.021	0.308
Coq6	NM_172582	ref Mus musculus coenzyme Q6 homolog (yeast) (Coq6), nuclear gene encoding mitochondrial protein, mRNA [NM_172582]	-0.22	0.027	0.347
Ola1	NM_025942	ref Mus musculus Obg-like ATPase 1 (Ola1), transcript variant 1, mRNA [NM_025942]	-0.22	0.047	0.447

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Cbwd1	NM_146097	ref Mus musculus COBW domain containing 1 (Cbwd1), transcript variant 1, mRNA [NM_146097]	-0.22	0.044	0.435
Nudt3	NM_019837	ref Mus musculus nudix (nucleotide diphosphate linked moiety X)-type motif 3 (Nudt3), mRNA [NM_019837]	-0.22	0.022	0.314
Pomt1	NM_145145	ref Mus musculus protein-O-mannosyltransferase 1 (Pomt1), mRNA [NM_145145]	-0.22	0.017	0.278
chr17:44503516-44504852_R	chr17:44503516-44504852_R	lincRNA:chr17:44503516-44504852 reverse strand	-0.22	0.046	0.444
4933424B01Rik	NM_138757	ref Mus musculus RIKEN cDNA 4933424B01 gene (4933424B01Rik), mRNA [NM_138757]	-0.22	0.029	0.357
ENSMUST00000051853	ENSMUST00000051853	ens transducin-like enhancer of split 2, homolog of Drosophila E(spl) Gene [Source:MGI (curated);Acc:MGI:104635] [ENSMUST00000051853]	-0.22	0.043	0.428
Mrps11	NM_026498	ref Mus musculus mitochondrial ribosomal protein S11 (Mrps11), nuclear gene encoding mitochondrial protein, mRNA [NM_026498]	-0.22	0.008	0.190
Camk1	NM_133926	ref Mus musculus calcium/calmodulin-dependent protein kinase I (Camk1), mRNA [NM_133926]	-0.22	0.031	0.370
1700021F05Rik	NM_026411	ref Mus musculus RIKEN cDNA 1700021F05 gene (1700021F05Rik), mRNA [NM_026411]	-0.22	0.032	0.374
Cops3	NM_011991	ref Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 3 (Arabidopsis thaliana) (Cops3), mRNA [NM_011991]	-0.23	0.014	0.253
Stard10	NM_019990	ref Mus musculus START domain containing 10 (Stard10), mRNA [NM_019990]	-0.23	0.040	0.417
Map3k1	NM_011945	ref Mus musculus mitogen-activated protein kinase kinase kinase 1 (Map3k1), mRNA [NM_011945]	-0.23	0.049	0.456
Mtg1	NM_199301	ref Mus musculus mitochondrial GTPase 1 homolog (S. cerevisiae) (Mtg1), nuclear gene encoding mitochondrial protein, mRNA [NM_199301]	-0.23	0.025	0.330
Itpr2	NM_019923	ref Mus musculus inositol 1,4,5-triphosphate receptor 2 (Itpr2), transcript variant 1, mRNA [NM_019923]	-0.23	0.026	0.339
Mrpl10	NM_026154	ref Mus musculus mitochondrial ribosomal protein L10 (Mrpl10), nuclear gene encoding mitochondrial protein, mRNA [NM_026154]	-0.23	0.022	0.314
Nutf2	NM_026532	ref Mus musculus nuclear transport factor 2 (Nutf2), mRNA [NM_026532]	-0.23	0.035	0.388
Gm4941	XM_139339	ref PREDICTED: Mus musculus predicted gene, EG239341 (EG239341), mRNA [XM_139339]	-0.23	0.020	0.295
Psme1	NM_011189	ref Mus musculus proteasome (prosome, macropain) 28 subunit, alpha (Psme1), mRNA [NM_011189]	-0.23	0.013	0.247
Rpap1	NM_177294	ref Mus musculus RNA polymerase II associated protein 1 (Rpap1), transcript variant 1, mRNA [NM_177294]	-0.23	0.009	0.204
Fundc1	NM_028058	ref Mus musculus FUN14 domain containing 1 (Fundc1), mRNA [NM_028058]	-0.23	0.025	0.332
Sphkap	NM_172430	ref Mus musculus SPHK1 interactor, AKAP domain containing (Sphkap), mRNA [NM_172430]	-0.23	0.039	0.408
Rel1	NM_145923	ref Mus musculus RELT-like 1 (Rel1), mRNA [NM_145923]	-0.23	0.024	0.327
Nfix	NM_010906	ref Mus musculus nuclear factor I/X (Nfix), transcript variant 2, mRNA [NM_010906]	-0.23	0.019	0.292
Nck2	NM_010879	ref Mus musculus non-catalytic region of tyrosine kinase adaptor protein 2 (Nck2), mRNA [NM_010879]	-0.23	0.031	0.369
Tmx1	NM_028339	ref Mus musculus thioredoxin-related transmembrane protein 1 (Tmx1), mRNA [NM_028339]	-0.23	0.017	0.278
ENSMUST00000119783	ENSMUST00000119783	ens GATA zinc finger domain containing 1 Gene [Source:MGI (curated);Acc:MGI:1914460] [ENSMUST00000119783]	-0.23	0.040	0.414
LOC436420	XM_001479292	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC436420), mRNA [XM_001479292]	-0.23	0.025	0.332

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Timm23	NM_016897	ref Mus musculus translocase of inner mitochondrial membrane 23 homolog (yeast) (Timm23), nuclear gene encoding mitochondrial protein, mRNA [NM_016897]	-0.23	0.036	0.391
Urod	NM_009478	ref Mus musculus uroporphyrinogen decarboxylase (Urod), mRNA [NM_009478]	-0.23	0.021	0.302
Rxrg	NM_009107	ref Mus musculus retinoid X receptor gamma (Rxrg), transcript variant 1, mRNA [NM_009107]	-0.23	0.035	0.391
Chmp4c	NM_025519	ref Mus musculus chromatin modifying protein 4C (Chmp4c), mRNA [NM_025519]	-0.23	0.027	0.344
Neurl2	NM_001082974	ref Mus musculus neuralized-like 2 (Drosophila) (Neurl2), mRNA [NM_001082974]	-0.23	0.023	0.320
Gucy2e	NM_008192	ref Mus musculus guanylate cyclase 2e (Gucy2e), mRNA [NM_008192]	-0.23	0.045	0.441
Ints8	NM_178112	ref Mus musculus integrator complex subunit 8 (Ints8), transcript variant 2, mRNA [NM_178112]	-0.23	0.039	0.412
Cdnf	NM_177647	ref Mus musculus cerebral dopamine neurotrophic factor (Cdnf), mRNA [NM_177647]	-0.23	0.031	0.370
Mrpl22	NM_175001	ref Mus musculus mitochondrial ribosomal protein L22 (Mrpl22), nuclear gene encoding mitochondrial protein, mRNA [NM_175001]	-0.23	0.010	0.212
Tmem101	NM_029649	ref Mus musculus transmembrane protein 101 (Tmem101), mRNA [NM_029649]	-0.23	0.043	0.430
Timm13	NM_013895	ref Mus musculus translocase of inner mitochondrial membrane 13 homolog (yeast) (Timm13), nuclear gene encoding mitochondrial protein, mRNA [NM_013895]	-0.23	0.037	0.396
Tek	NM_013690	ref Mus musculus endothelial-specific receptor tyrosine kinase (Tek), mRNA [NM_013690]	-0.23	0.025	0.331
Tmem192	NM_028427	ref Mus musculus transmembrane protein 192 (Tmem192), transcript variant 1, mRNA [NM_028427]	-0.23	0.036	0.395
chr17:13806767-13824342_R	chr17:13806767-13824342_R	lincRNA:chr17:13806767-13824342 reverse strand	-0.23	0.016	0.268
Csnk2a1	NM_007788	ref Mus musculus casein kinase 2, alpha 1 polypeptide (Csnk2a1), mRNA [NM_007788]	-0.23	0.009	0.202
Capza1	NM_009797	ref Mus musculus capping protein (actin filament) muscle Z-line, alpha 1 (Capza1), mRNA [NM_009797]	-0.23	0.023	0.318
chr3:19179899-19216399_F	chr3:19179899-19216399_F	lincRNA:chr3:19179899-19216399 forward strand	-0.23	0.016	0.269
Urm1	NM_026615	ref Mus musculus ubiquitin related modifier 1 homolog (S. cerevisiae) (Urm1), mRNA [NM_026615]	-0.23	0.033	0.379
Atp6v1d	NM_023721	ref Mus musculus ATPase, H+ transporting, lysosomal V1 subunit D (Atp6v1d), mRNA [NM_023721]	-0.23	0.013	0.248
Prdx6	NM_007453	ref Mus musculus peroxiredoxin 6 (Prdx6), mRNA [NM_007453]	-0.23	0.021	0.302
Glr3	NM_023140	ref Mus musculus glutaredoxin 3 (Glr3), mRNA [NM_023140]	-0.23	0.007	0.176
Apip	NM_019735	ref Mus musculus APAF1 interacting protein (Apip), mRNA [NM_019735]	-0.23	0.030	0.360
Aqr	NM_009702	ref Mus musculus aquarius (Aqr), mRNA [NM_009702]	-0.23	0.025	0.331
Asnsd1	NM_133728	ref Mus musculus asparagine synthetase domain containing 1 (Asnsd1), mRNA [NM_133728]	-0.23	0.020	0.298
Zcchc4	NM_030185	ref Mus musculus zinc finger, CCHC domain containing 4 (Zcchc4), mRNA [NM_030185]	-0.23	0.043	0.428
Ssbp1	NM_028358	ref Mus musculus single-stranded DNA binding protein 1 (Ssbp1), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA [NM_028358]	-0.23	0.010	0.207
Tmem70	NM_026392	ref Mus musculus transmembrane protein 70 (Tmem70), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA [NM_026392]	-0.23	0.020	0.295
Ndufa6	NM_025987	ref Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 6 (B14) (Ndufa6), nuclear gene encoding mitochondrial protein, mRNA [NM_025987]	-0.24	0.018	0.280

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr14:78214602-78226287_R	chr14:78214602-78226287_R	lincRNA:chr14:78214602-78226287 reverse strand	-0.24	0.015	0.259
ENSMUST00000051330	ENSMUST00000051330	ens RIKEN cDNA D830039M14 gene Gene [Source:MGI Symbol;Acc:MGI:2445111] [ENSMUST00000051330]	-0.24	0.041	0.418
Chchd5	NM_025395	ref Mus musculus coiled-coil-helix-coiled-coil-helix domain containing 5 (Chchd5), mRNA [NM_025395]	-0.24	0.016	0.271
Cenpl	NM_001159930	ref Mus musculus centromere protein L (Cenpl), transcript variant 1, mRNA [NM_001159930]	-0.24	0.045	0.437
Sirt4	NM_001167691	ref Mus musculus sirtuin 4 (silent mating type information regulation 2 homolog) 4 (S. cerevisiae) (Sirt4), transcript variant 1, mRNA [NM_001167691]	-0.24	0.012	0.233
chr1:169026196-169032664_F	chr1:169026196-169032664_F	lincRNA:chr1:169026196-169032664 forward strand	-0.24	0.043	0.428
Sorl1	NM_011436	ref Mus musculus sortilin-related receptor, LDLR class A repeats-containing (Sorl1), mRNA [NM_011436]	-0.24	0.024	0.329
2310079N02Rik	NM_025636	ref Mus musculus RIKEN cDNA 2310079N02 gene (2310079N02Rik), mRNA [NM_025636]	-0.24	0.023	0.321
Mrpl4	NM_023167	ref Mus musculus mitochondrial ribosomal protein L4 (Mrpl4), nuclear gene encoding mitochondrial protein, mRNA [NM_023167]	-0.24	0.026	0.340
Smg5	NM_178246	ref Mus musculus Smg-5 homolog, nonsense mediated mRNA decay factor (C. elegans) (Smg5), mRNA [NM_178246]	-0.24	0.022	0.314
Ppp1r7	NM_023200	ref Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 7 (Ppp1r7), mRNA [NM_023200]	-0.24	0.033	0.376
ENSMUST00000059428	ENSMUST00000059428	ens predicted gene 447 Gene [Source:MGI Symbol;Acc:MGI:2685293] [ENSMUST00000059428]	-0.24	0.033	0.377
Tsc22d1	NM_009366	ref Mus musculus TSC22 domain family, member 1 (Tsc22d1), transcript variant 2, mRNA [NM_009366]	-0.24	0.025	0.332
Gm3544	XR_031625	ref PREDICTED: Mus musculus similar to mitochondrial ribosomal protein S36 (LOC100045285), misc RNA [XR_031625]	-0.24	0.045	0.441
Ppp2r3c	NM_021529	ref Mus musculus protein phosphatase 2, regulatory subunit B", gamma (Ppp2r3c), mRNA [NM_021529]	-0.24	0.015	0.260
chr16:93121505-93142255_R	chr16:93121505-93142255_R	lincRNA:chr16:93121505-93142255 reverse strand	-0.24	0.021	0.305
Dld	NM_007861	ref Mus musculus dihydrolipoamide dehydrogenase (Dld), mRNA [NM_007861]	-0.24	0.031	0.369
Taf4a	NM_001081092	ref Mus musculus TAF4A RNA polymerase II, TATA box binding protein (TBP)-associated factor (Taf4a), mRNA [NM_001081092]	-0.24	0.034	0.380
Peo1	NM_153796	ref Mus musculus progressive external ophthalmoplegia 1 (human) (Peo1), mRNA [NM_153796]	-0.24	0.017	0.278
Ppm1l	NM_178726	ref Mus musculus protein phosphatase 1 (formerly 2C)-like (Ppm1l), mRNA [NM_178726]	-0.24	0.033	0.378
4632415K11Rik	NM_028883	ref Mus musculus RIKEN cDNA 4632415K11 gene (4632415K11Rik), mRNA [NM_028883]	-0.24	0.017	0.278
Mars2	NM_175439	ref Mus musculus methionine-tRNA synthetase 2 (mitochondrial) (Mars2), nuclear gene encoding mitochondrial protein, mRNA [NM_175439]	-0.24	0.013	0.247
Tmem55a	NM_028264	ref Mus musculus transmembrane protein 55A (Tmem55a), mRNA [NM_028264]	-0.24	0.021	0.305
Lap3	NM_024434	ref Mus musculus leucine aminopeptidase 3 (Lap3), mRNA [NM_024434]	-0.24	0.005	0.150
Eif1b	NM_026892	ref Mus musculus eukaryotic translation initiation factor 1B (Eif1b), mRNA [NM_026892]	-0.24	0.015	0.262
Sdhb	NM_023374	ref Mus musculus succinate dehydrogenase complex, subunit B, iron sulfur (lp) (Sdhb), nuclear gene encoding mitochondrial protein, mRNA [NM_023374]	-0.24	0.008	0.184
Cnst	NM_146105	ref Mus musculus consorin, connexin sorting protein (Cnst), mRNA [NM_146105]	-0.24	0.041	0.419

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Clcn3	NM_173874	ref Mus musculus chloride channel 3 (Clcn3), transcript variant e, mRNA [NM_173874]	-0.24	0.017	0.279
Wnk1	NM_198703	ref Mus musculus WNK lysine deficient protein kinase 1 (Wnk1), transcript variant 1, mRNA [NM_198703]	-0.24	0.031	0.367
chr18:84297418-84297745_R	chr18:84297418-84297745_R	lincRNA:chr18:84297418-84297745 reverse strand	-0.24	0.045	0.438
ENSMUST00000103568	ENSMUST00000103568	ens L1 repeat, Gf subfamily, member251 Other Genome Feature [Source:MGI Symbol;Acc:MGI:2178813] [ENSMUST00000103568]	-0.24	0.030	0.365
Bphl	NM_026512	ref Mus musculus biphenyl hydrolase-like (serine hydrolase, breast epithelial mucin-associated antigen) (Bphl), mRNA [NM_026512]	-0.24	0.021	0.305
1110001A16Rik	NM_001177403	ref Mus musculus RIKEN cDNA 1110001A16 gene (1110001A16Rik), transcript variant 1, mRNA [NM_001177403]	-0.24	0.018	0.286
Mcts2	NM_025543	ref Mus musculus malignant T cell amplified sequence 2 (Mcts2), mRNA [NM_025543]	-0.24	0.029	0.359
ENSMUST00000054666	ENSMUST00000054666	ens cold inducible RNA binding protein Gene [Source:MGI (curated);Acc:MGI:893588] [ENSMUST00000054666]	-0.24	0.039	0.408
Gm2308	XR_030800	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC100039556), misc RNA [XR_030800]	-0.24	0.012	0.239
Stat1	NM_009283	ref Mus musculus signal transducer and activator of transcription 1 (Stat1), mRNA [NM_009283]	-0.24	0.037	0.399
chr13:58474388-58487288_R	chr13:58474388-58487288_R	lincRNA:chr13:58474388-58487288 reverse strand	-0.24	0.011	0.224
Bphl	NM_026512	ref Mus musculus biphenyl hydrolase-like (serine hydrolase, breast epithelial mucin-associated antigen) (Bphl), mRNA [NM_026512]	-0.24	0.022	0.312
Tmem141	NM_001040130	ref Mus musculus transmembrane protein 141 (Tmem141), transcript variant 1, mRNA [NM_001040130]	-0.24	0.038	0.402
Tsc22d1	NM_207652	ref Mus musculus TSC22 domain family, member 1 (Tsc22d1), transcript variant 1, mRNA [NM_207652]	-0.24	0.026	0.341
chr16:43623581-43642715_R	chr16:43623581-43642715_R	lincRNA:chr16:43623581-43642715 reverse strand	-0.24	0.033	0.376
Mcat	NM_001030014	ref Mus musculus malonyl CoA:ACP acyltransferase (mitochondrial) (Mcat), nuclear gene encoding mitochondrial protein, mRNA [NM_001030014]	-0.24	0.012	0.236
Kcnk3	NM_010608	ref Mus musculus potassium channel, subfamily K, member 3 (Kcnk3), mRNA [NM_010608]	-0.24	0.008	0.192
Bbs5	NM_028284	ref Mus musculus Bardet-Biedl syndrome 5 (human) (Bbs5), mRNA [NM_028284]	-0.24	0.009	0.200
Apoo	NM_026673	ref Mus musculus apolipoprotein O (Apoo), mRNA [NM_026673]	-0.25	0.018	0.281
chr8:122945743-122946192_F	chr8:122945743-122946192_F	lincRNA:chr8:122945743-122946192 forward strand	-0.25	0.039	0.412
Nit2	NM_023175	ref Mus musculus nitrilase family, member 2 (Nit2), mRNA [NM_023175]	-0.25	0.027	0.345
Tmprss3	NM_001163776	ref Mus musculus transmembrane protease, serine 3 (Tmprss3), transcript variant 1, mRNA [NM_001163776]	-0.25	0.025	0.332
Gm11783	XR_030520	ref PREDICTED: Mus musculus similar to COX11 homolog, cytochrome c oxidase assembly protein (yeast) (LOC100039044), misc RNA [XR_030520]	-0.25	0.049	0.455
ENSMUST00000110618	ENSMUST00000110618	ens 5-methyltetrahydrofolate-homocysteine methyltransferase Gene [Source:MGI Symbol;Acc:MGI:894292] [ENSMUST00000110618]	-0.25	0.024	0.326
Arfrp1	NM_001165991	ref Mus musculus ADP-ribosylation factor related protein 1 (Arfrp1), transcript variant 1, mRNA [NM_001165991]	-0.25	0.013	0.239
Cox7a1	NM_009944	ref Mus musculus cytochrome c oxidase, subunit VIIa 1 (Cox7a1), nuclear gene encoding mitochondrial protein, mRNA [NM_009944]	-0.25	0.016	0.274

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
Npb	NM_153288	ref Mus musculus neuropeptide B (Npb), mRNA [NM_153288]	-0.25	0.048	0.451
Gtf3c6	NM_026113	ref Mus musculus general transcription factor IIIC, polypeptide 6, alpha (Gtf3c6), mRNA [NM_026113]	-0.25	0.049	0.456
Mrps23	NM_024174	ref Mus musculus mitochondrial ribosomal protein S23 (Mrps23), nuclear gene encoding mitochondrial protein, mRNA [NM_024174]	-0.25	0.019	0.291
D10Jhu81e	NM_138601	ref Mus musculus DNA segment, Chr 10, Johns Hopkins University 81 expressed (D10Jhu81e), mRNA [NM_138601]	-0.25	0.014	0.257
Dnaja2	NM_019794	ref Mus musculus DnaJ (Hsp40) homolog, subfamily A, member 2 (Dnaja2), mRNA [NM_019794]	-0.25	0.031	0.368
Gm6705	XR_031767	ref PREDICTED: Mus musculus similar to Lysosomal-associated protein transmembrane 4B (LOC626785), misc RNA [XR_031767]	-0.25	0.029	0.353
Blvra	NM_026678	ref Mus musculus biliverdin reductase A (Blvra), mRNA [NM_026678]	-0.25	0.017	0.276
Stau2	NM_025303	ref Mus musculus staufer (RNA binding protein) homolog 2 (Drosophila) (Stau2), transcript variant 3, mRNA [NM_025303]	-0.25	0.019	0.290
Polr3k	NM_025901	ref Mus musculus polymerase (RNA) III (DNA directed) polypeptide K (Polr3k), mRNA [NM_025901]	-0.25	0.042	0.422
Gm4116	XR_030557	ref PREDICTED: Mus musculus similar to synaptojanin 2 binding protein (LOC100044401), misc RNA [XR_030557]	-0.25	0.012	0.233
Gm11945	XM_001473763	ref PREDICTED: Mus musculus similar to 39S ribosomal protein L30, mitochondrial precursor (L30mt) (MRP-L30) (LOC100044791), mRNA [XM_001473763]	-0.25	0.030	0.361
ENSMUST00000099807	ENSMUST00000099807	ens peroxiredoxin 5 Gene [Source:MGI (curated);Acc:MGI:1859821] [ENSMUST00000099807]	-0.25	0.032	0.374
Aph1a	NM_146104	ref Mus musculus anterior pharynx defective 1a homolog (C. elegans) (Aph1a), transcript variant 1, mRNA [NM_146104]	-0.25	0.014	0.251
chr19:4996544-4997119_R	chr19:4996544-4997119_R	lincRNA:chr19:4996544-4997119 reverse strand	-0.25	0.032	0.372
ENSMUST00000112050	ENSMUST00000112050	ens secernin 3 Gene [Source:MGI (curated);Acc:MGI:1921866] [ENSMUST00000112050]	-0.25	0.014	0.250
Commd1	NM_144514	ref Mus musculus COMM domain containing 1 (Commd1), mRNA [NM_144514]	-0.25	0.009	0.200
Gm10399	ENSMUST00000100834	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q3US04] [ENSMUST00000100834]	-0.25	0.045	0.439
Gm7843	XR_001798	ref PREDICTED: Mus musculus predicted gene, EG665892 (EG665892), misc RNA [XR_001798]	-0.25	0.010	0.207
Intu	NM_175515	ref Mus musculus intumed planar cell polarity effector homolog (Drosophila) (Intu), mRNA [NM_175515]	-0.25	0.009	0.196
BC025920	NR_030677	ref Mus musculus cDNA sequence BC025920 (BC025920), non-coding RNA [NR_030677]	-0.25	0.032	0.373
ENSMUST00000032967	ENSMUST00000032967	ens lipoyl(octanoyl) transferase 2 (putative) Gene [Source:MGI (curated);Acc:MGI:1914414] [ENSMUST00000032967]	-0.25	0.020	0.294
Smug1	NM_027885	ref Mus musculus single-strand selective monofunctional uracil DNA glycosylase (Smug1), mRNA [NM_027885]	-0.25	0.009	0.201
3110062M04Rik	NM_199145	ref Mus musculus RIKEN cDNA 3110062M04 gene (3110062M04Rik), transcript variant 1, mRNA [NM_199145]	-0.25	0.042	0.424
Sumo1	NM_009460	ref Mus musculus SMT3 suppressor of mif two 3 homolog 1 (yeast) (Sumo1), mRNA [NM_009460]	-0.25	0.006	0.168
Abhd11	NM_145215	ref Mus musculus abhydrolase domain containing 11 (Abhd11), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_145215]	-0.25	0.017	0.278
2700097O09Rik	NM_028314	ref Mus musculus RIKEN cDNA 2700097O09 gene (2700097O09Rik), transcript variant 1, mRNA [NM_028314]	-0.25	0.043	0.429

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr2:153163620-153170845_R	chr2:153163620-153170845_R	lincRNA:chr2:153163620-153170845 reverse strand	-0.25	0.015	0.259
Fkbp3	NM_013902	ref Mus musculus FK506 binding protein 3 (Fkbp3), mRNA [NM_013902]	-0.25	0.006	0.158
Hddc2	NM_027168	ref Mus musculus HD domain containing 2 (Hddc2), mRNA [NM_027168]	-0.25	0.018	0.283
Atp2a2	NM_009722	ref Mus musculus ATPase, Ca++ transporting, cardiac muscle, slow twitch 2 (Atp2a2), transcript variant 2, mRNA [NM_009722]	-0.25	0.031	0.369
LOC630077	XR_031677	ref PREDICTED: Mus musculus similar to protein phosphatase 2, regulatory subunit B (B56), alpha isoform (LOC630077), misc RNA [XR_031677]	-0.25	0.014	0.253
Dnajc19	NM_001026211	ref Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 19 (Dnajc19), transcript variant 2, mRNA [NM_001026211]	-0.25	0.036	0.395
1700113I22Rik	NM_026865	ref Mus musculus RIKEN cDNA 1700113I22 gene (1700113I22Rik), mRNA [NM_026865]	-0.25	0.022	0.311
Eid2	NM_198425	ref Mus musculus EP300 interacting inhibitor of differentiation 2 (Eid2), mRNA [NM_198425]	-0.25	0.021	0.303
Nhs1l	NM_173390	ref Mus musculus NHS-like 1 (Nhs1l), transcript variant 1, mRNA [NM_173390]	-0.25	0.017	0.279
Glr5	NM_028419	ref Mus musculus glutaredoxin 5 homolog (S. cerevisiae) (Glr5), nuclear gene encoding mitochondrial protein, mRNA [NM_028419]	-0.25	0.013	0.244
Polr3a	NM_001081247	ref Mus musculus polymerase (RNA) III (DNA directed) polypeptide A (Polr3a), mRNA [NM_001081247]	-0.25	0.015	0.260
Nanog	NM_028016	ref Mus musculus Nanog homeobox (Nanog), mRNA [NM_028016]	-0.25	0.013	0.246
Fzr1	NM_019757	ref Mus musculus fizzy/cell division cycle 20 related 1 (Drosophila) (Fzr1), mRNA [NM_019757]	-0.25	0.021	0.304
Ttc19	NM_028360	ref Mus musculus tetratricopeptide repeat domain 19 (Ttc19), transcript variant 1, mRNA [NM_028360]	-0.25	0.031	0.368
Trappc5	NM_025701	ref Mus musculus trafficking protein particle complex 5 (Trappc5), mRNA [NM_025701]	-0.25	0.027	0.347
Cyp2d26	NM_029562	ref Mus musculus cytochrome P450, family 2, subfamily d, polypeptide 26 (Cyp2d26), mRNA [NM_029562]	-0.26	0.041	0.418
Ndufa10	NM_024197	ref Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 10 (Ndufa10), nuclear gene encoding mitochondrial protein, mRNA [NM_024197]	-0.26	0.030	0.365
Fanc1	NM_025923	ref Mus musculus Fanconi anemia, complementation group L (Fanc1), mRNA [NM_025923]	-0.26	0.029	0.358
Fam73b	NM_175392	ref Mus musculus family with sequence similarity 73, member B (Fam73b), mRNA [NM_175392]	-0.26	0.038	0.403
Hbs1l	NM_019702	ref Mus musculus Hbs1-like (S. cerevisiae) (Hbs1l), transcript variant 1, mRNA [NM_019702]	-0.26	0.048	0.450
Dullard	NM_026017	ref Mus musculus Dullard homolog (Xenopus laevis) (Dullard), mRNA [NM_026017]	-0.26	0.024	0.326
Ppp2r2c	NM_172994	ref Mus musculus protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), gamma isoform (Ppp2r2c), mRNA [NM_172994]	-0.26	0.032	0.376
Isg20	NM_020583	ref Mus musculus interferon-stimulated protein (Isg20), transcript variant 1, mRNA [NM_020583]	-0.26	0.018	0.282
Abcb10	NM_019552	ref Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 10 (Abcb10), nuclear gene encoding mitochondrial protein, mRNA [NM_019552]	-0.26	0.048	0.449
Rnf170	NM_029965	ref Mus musculus ring finger protein 170 (Rnf170), mRNA [NM_029965]	-0.26	0.016	0.273
BC004004	NM_030561	ref Mus musculus cDNA sequence BC004004 (BC004004), mRNA [NM_030561]	-0.26	0.047	0.448
chr3:151746091-151753763_F	chr3:151746091-151753763_F	lincRNA:chr3:151746091-151753763 forward strand	-0.26	0.021	0.302

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Araf	NM_001159645	ref Mus musculus v-raf murine sarcoma 3611 viral oncogene homolog (Araf), transcript variant 2, mRNA [NM_001159645]	-0.26	0.022	0.310
Gm4479	XR_033367	ref PREDICTED: Mus musculus similar to ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit c (LOC100047467), misc RNA [XR_033367]	-0.26	0.009	0.200
Cbx6	NM_028763	ref Mus musculus chromobox homolog 6 (Cbx6), mRNA [NM_028763]	-0.26	0.012	0.235
4933403F05Rik	NM_153794	ref Mus musculus RIKEN cDNA 4933403F05 gene (4933403F05Rik), mRNA [NM_153794]	-0.26	0.019	0.288
chr5:105072936-105074001_F	chr5:105072936-105074001_F	lincRNA:chr5:105072936-105074001 forward strand	-0.26	0.032	0.372
Exosc9	NM_019393	ref Mus musculus exosome component 9 (Exosc9), mRNA [NM_019393]	-0.26	0.007	0.179
Wnk1	NM_198703	ref Mus musculus WNK lysine deficient protein kinase 1 (Wnk1), transcript variant 1, mRNA [NM_198703]	-0.26	0.044	0.431
Coq7	NM_009940	ref Mus musculus demethyl-Q 7 (Coq7), mRNA [NM_009940]	-0.26	0.006	0.170
LOC100045477	XM_001474374	ref PREDICTED: Mus musculus hypothetical protein LOC100045477 (LOC100045477), mRNA [XM_001474374]	-0.26	0.039	0.413
Tfam	NM_009360	ref Mus musculus transcription factor A, mitochondrial (Tfam), nuclear gene encoding mitochondrial protein, mRNA [NM_009360]	-0.26	0.030	0.361
Hdac4	NM_207225	ref Mus musculus histone deacetylase 4 (Hdac4), mRNA [NM_207225]	-0.26	0.011	0.222
Gm12182	XR_031616	ref PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate dehydrogenase (LOC667163), misc RNA [XR_031616]	-0.26	0.033	0.376
LOC638803	XM_001477893	ref PREDICTED: Mus musculus similar to TOM22 protein (LOC638803), mRNA [XM_001477893]	-0.26	0.009	0.204
Rfwd3	NM_146218	ref Mus musculus ring finger and WD repeat domain 3 (Rfwd3), mRNA [NM_146218]	-0.26	0.005	0.145
Csnk2a1	NM_007788	ref Mus musculus casein kinase 2, alpha 1 polypeptide (Csnk2a1), mRNA [NM_007788]	-0.26	0.006	0.158
Ldhb	NM_008492	ref Mus musculus lactate dehydrogenase B (Ldhb), mRNA [NM_008492]	-0.26	0.005	0.145
Taf6l	NM_001177798	ref Mus musculus TAF6-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor (Taf6l), transcript variant 2, mRNA [NM_001177798]	-0.26	0.029	0.353
Prpsap2	NM_144806	ref Mus musculus phosphoribosyl pyrophosphate synthetase-associated protein 2 (Prpsap2), transcript variant 1, mRNA [NM_144806]	-0.26	0.034	0.385
2410091C18Rik	NM_028611	ref Mus musculus RIKEN cDNA 2410091C18 gene (2410091C18Rik), mRNA [NM_028611]	-0.26	0.008	0.191
Gm4948	XR_004743	ref PREDICTED: Mus musculus similar to glycoprotein, synaptic 2 (LOC675178), misc RNA [XR_004743]	-0.26	0.034	0.385
Pdcl	NM_026176	ref Mus musculus phosducin-like (Pdcl), mRNA [NM_026176]	-0.26	0.045	0.437
ETG04_27747	ETG04_27747		-0.26	0.047	0.447
6330509M05Rik	AK031957	gb Mus musculus adult male medulla oblongata cDNA, RIKEN full-length enriched library, clone:6330509M05 product:unclassifiable, full insert sequence. [AK031957]	-0.26	0.040	0.416
Ttc19	NM_028360	ref Mus musculus tetratricopeptide repeat domain 19 (Ttc19), transcript variant 1, mRNA [NM_028360]	-0.26	0.039	0.410
Gm5333	XR_033672	ref PREDICTED: Mus musculus similar to tetratricopeptide repeat domain 35 (LOC384631), misc RNA [XR_033672]	-0.26	0.003	0.124
chr14:22267795-22319045_F	chr14:22267795-22319045_F	lincRNA:chr14:22267795-22319045 forward strand	-0.26	0.015	0.260
Atp5sl	NM_025504	ref Mus musculus ATP5S-like (Atp5sl), mRNA [NM_025504]	-0.26	0.036	0.393

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Bod1	NM_001024919	ref Mus musculus biorientation of chromosomes in cell division 1 (Bod1), mRNA [NM_001024919]	-0.26	0.012	0.235
Tm2d3	NM_178056	ref Mus musculus TM2 domain containing 3 (Tm2d3), transcript variant 2, mRNA [NM_178056]	-0.26	0.019	0.291
Cenpq	NM_031863	ref Mus musculus centromere protein Q (Cenpq), mRNA [NM_031863]	-0.26	0.018	0.284
2700046G09Rik	NR_033198	ref Mus musculus RIKEN cDNA 2700046G09 gene (2700046G09Rik), non-coding RNA [NR_033198]	-0.26	0.022	0.314
Zfp503	NM_145459	ref Mus musculus zinc finger protein 503 (Zfp503), mRNA [NM_145459]	-0.26	0.043	0.428
Rilpl1	NM_021430	ref Mus musculus Rab interacting lysosomal protein-like 1 (Rilpl1), mRNA [NM_021430]	-0.27	0.003	0.119
Apba2	NM_007461	ref Mus musculus amyloid beta (A4) precursor protein-binding, family A, member 2 (Apba2), mRNA [NM_007461]	-0.27	0.040	0.414
Asf1b	NM_024184	ref Mus musculus ASF1 anti-silencing function 1 homolog B (S. cerevisiae) (Asf1b), mRNA [NM_024184]	-0.27	0.015	0.266
Ogfod2	NM_025671	ref Mus musculus 2-oxoglutarate and iron-dependent oxygenase domain containing 2 (Ogfod2), mRNA [NM_025671]	-0.27	0.009	0.200
Esrrg	NM_011935	ref Mus musculus estrogen-related receptor gamma (Esrrg), mRNA [NM_011935]	-0.27	0.021	0.303
Isg20l2	NM_177663	ref Mus musculus interferon stimulated exonuclease gene 20-like 2 (Isg20l2), mRNA [NM_177663]	-0.27	0.032	0.375
chr8:119092623-119094219_R	chr8:119092623-119094219_R	lincRNA:chr8:119092623-119094219 reverse strand	-0.27	0.012	0.236
Zfx2as	NR_004444	ref Mus musculus zinc finger homeobox 2, antisense (Zfx2as), antisense RNA [NR_004444]	-0.27	0.025	0.331
Pin1l	NM_001033768	ref Mus musculus peptidylprolyl cis/trans isomerase, NIMA-interacting 1-like (Pin1l), mRNA [NM_001033768]	-0.27	0.017	0.278
Fam96a	NM_026635	ref Mus musculus family with sequence similarity 96, member A (Fam96a), mRNA [NM_026635]	-0.27	0.011	0.227
4932422M17Rik	XM_001473799	ref PREDICTED: Mus musculus RIKEN cDNA 4932422M17 gene (4932422M17Rik), mRNA [XM_001473799]	-0.27	0.041	0.419
LOC100047337	XM_001477762	ref PREDICTED: Mus musculus hypothetical protein LOC100047337 (LOC100047337), mRNA [XM_001477762]	-0.27	0.029	0.353
Mrps25	NM_025578	ref Mus musculus mitochondrial ribosomal protein S25 (Mrps25), nuclear gene encoding mitochondrial protein, mRNA [NM_025578]	-0.27	0.007	0.178
Olf1333	NM_207157	ref Mus musculus olfactory receptor 1333 (Olf1333), mRNA [NM_207157]	-0.27	0.049	0.455
Camk2g	NM_178597	ref Mus musculus calcium/calmodulin-dependent protein kinase II gamma (Camk2g), transcript variant 1, mRNA [NM_178597]	-0.27	0.049	0.456
2010011I20Rik	NM_025912	ref Mus musculus RIKEN cDNA 2010011I20 gene (2010011I20Rik), mRNA [NM_025912]	-0.27	0.042	0.425
Pdf	NM_026513	ref Mus musculus peptide deformylase (mitochondrial) (Pdf), nuclear gene encoding mitochondrial protein, mRNA [NM_026513]	-0.27	0.016	0.274
Fam178a	NM_001081225	ref Mus musculus family with sequence similarity 178, member A (Fam178a), mRNA [NM_001081225]	-0.27	0.021	0.303
Gemin7	NM_027189	ref Mus musculus gem (nuclear organelle) associated protein 7 (Gemin7), mRNA [NM_027189]	-0.27	0.006	0.168
Pgpep1	NM_023217	ref Mus musculus pyroglutaryl-peptidase I (Pgpep1), mRNA [NM_023217]	-0.27	0.042	0.426
Tfam	NM_009360	ref Mus musculus transcription factor A, mitochondrial (Tfam), nuclear gene encoding mitochondrial protein, mRNA [NM_009360]	-0.27	0.032	0.373
Coq9	NM_026452	ref Mus musculus coenzyme Q9 homolog (yeast) (Coq9), nuclear gene encoding mitochondrial protein, mRNA [NM_026452]	-0.27	0.020	0.298

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Klhdc7a	NM_173427	ref Mus musculus kelch domain containing 7A (Klhdc7a), mRNA [NM_173427]	-0.27	0.021	0.304
chr10:6480075-6603900_R	chr10:6480075-6603900_R	lincRNA:chr10:6480075-6603900 reverse strand	-0.27	0.047	0.446
chr7:91558475-91733625_F	chr7:91558475-91733625_F	lincRNA:chr7:91558475-91733625 forward strand	-0.27	0.031	0.368
Clcn3	NM_173874	ref Mus musculus chloride channel 3 (Clcn3), transcript variant e, mRNA [NM_173874]	-0.27	0.021	0.306
Osbp2	NM_152818	ref Mus musculus oxysterol binding protein 2 (Osbp2), mRNA [NM_152818]	-0.27	0.036	0.395
chr13:70745306-70837331_F	chr13:70745306-70837331_F	lincRNA:chr13:70745306-70837331 forward strand	-0.27	0.016	0.274
2810432L12Rik	NM_025944	ref Mus musculus RIKEN cDNA 2810432L12 gene (2810432L12Rik), mRNA [NM_025944]	-0.27	0.025	0.331
ENSMUST00000042883	ENSMUST00000042883	ens cDNA sequence BC006965 (BC006965), non-coding RNA [Source:RefSeq DNA;Acc:NR_024085] [ENSMUST00000042883]	-0.27	0.027	0.348
Fzr1	NM_019757	ref Mus musculus fizzy/cell division cycle 20 related 1 (Drosophila) (Fzr1), mRNA [NM_019757]	-0.27	0.012	0.231
Fzd9	NM_010246	ref Mus musculus frizzled homolog 9 (Drosophila) (Fzd9), mRNA [NM_010246]	-0.27	0.004	0.132
Sufu	NM_015752	ref Mus musculus suppressor of fused homolog (Drosophila) (Sufu), transcript variant 1, mRNA [NM_015752]	-0.27	0.047	0.447
0910001L09Rik	NM_001081108	ref Mus musculus RIKEN cDNA 0910001L09 gene (0910001L09Rik), mRNA [NM_001081108]	-0.27	0.009	0.196
Pomc	NM_008895	ref Mus musculus pro-opiomelanocortin-alpha (Pomc), mRNA [NM_008895]	-0.27	0.034	0.385
Hist1h1a	NM_030609	ref Mus musculus histone cluster 1, H1a (Hist1h1a), mRNA [NM_030609]	-0.27	0.026	0.338
2810013P06Rik	AK077895	gb Mus musculus 13 days embryo male testis cDNA, RIKEN full-length enriched library, clone:6030419N23 product:unclassifiable, full insert sequence. [AK077895]	-0.27	0.017	0.279
chr17:45524689-45525320_R	chr17:45524689-45525320_R	lincRNA:chr17:45524689-45525320 reverse strand	-0.27	0.043	0.428
chr4:119967625-119978325_F	chr4:119967625-119978325_F	lincRNA:chr4:119967625-119978325 forward strand	-0.27	0.014	0.251
Lpgat1	NM_001134829	ref Mus musculus lysophosphatidylglycerol acyltransferase 1 (Lpgat1), transcript variant 1, mRNA [NM_001134829]	-0.27	0.026	0.337
Aifm1	NM_012019	ref Mus musculus apoptosis-inducing factor, mitochondrion-associated 1 (Aifm1), nuclear gene encoding mitochondrial protein, mRNA [NM_012019]	-0.27	0.011	0.227
Snape3	NM_029949	ref Mus musculus small nuclear RNA activating complex, polypeptide 3 (Snape3), mRNA [NM_029949]	-0.27	0.043	0.430
Dysfip1	NM_026814	ref Mus musculus dysferlin interacting protein 1 (Dysfip1), mRNA [NM_026814]	-0.27	0.048	0.450
Hars2	NM_080636	ref Mus musculus histidyl-tRNA synthetase 2, mitochondrial (putative) (Hars2), nuclear gene encoding mitochondrial protein, mRNA [NM_080636]	-0.27	0.023	0.318
Lym2	NM_175364	ref Mus musculus LYR motif containing 2 (Lym2), mRNA [NM_175364]	-0.27	0.020	0.298
Gm5899	XM_620527	ref PREDICTED: Mus musculus predicted gene, EG545982 (EG545982), mRNA [XM_620527]	-0.27	0.033	0.377
Aif1l	NM_145144	ref Mus musculus allograft inflammatory factor 1-like (Aif1l), mRNA [NM_145144]	-0.27	0.020	0.298
Immp1l	NM_028260	ref Mus musculus IMP1 inner mitochondrial membrane peptidase-like (S. cerevisiae) (Immp1l), nuclear gene encoding mitochondrial protein, mRNA [NM_028260]	-0.27	0.012	0.236
5033414D02Rik	NM_026362	ref Mus musculus RIKEN cDNA 5033414D02 gene (5033414D02Rik), mRNA [NM_026362]	-0.27	0.036	0.394
Gm8709	NR_033633	ref Mus musculus predicted gene 8709 (Gm8709), non-coding RNA [NR_033633]	-0.27	0.004	0.135

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Pxmp3	NM_008994	ref Mus musculus peroxisomal membrane protein 3 (Pxmp3), transcript variant 1, mRNA [NM_008994]	-0.27	0.013	0.241
Btrc	NM_001037758	ref Mus musculus beta-transducin repeat containing protein (Btrc), transcript variant 1, mRNA [NM_001037758]	-0.27	0.013	0.245
Tatdn3	NM_001163421	ref Mus musculus TatD DNase domain containing 3 (Tatdn3), transcript variant 2, mRNA [NM_001163421]	-0.27	0.008	0.193
Pdzd9	NM_001040137	ref Mus musculus PDZ domain containing 9 (Pdzd9), transcript variant 2, mRNA [NM_001040137]	-0.27	0.027	0.348
Pik3r6	NM_001004435	ref Mus musculus phosphoinositide-3-kinase, regulatory subunit 6 (Pik3r6), transcript variant 2, mRNA [NM_001004435]	-0.28	0.022	0.313
Fahd1	NM_023480	ref Mus musculus fumarylacetoacetate hydrolase domain containing 1 (Fahd1), nuclear gene encoding mitochondrial protein, mRNA [NM_023480]	-0.28	0.019	0.289
Hist1h2ak	NM_178183	ref Mus musculus histone cluster 1, H2ak (Hist1h2ak), mRNA [NM_178183]	-0.28	0.036	0.395
Gm9731	NR_003107	ref Mus musculus predicted gene 9731 (Gm9731), non-coding RNA [NR_003107]	-0.28	0.013	0.248
Deb1	NM_026794	ref Mus musculus differentially expressed in B16F10 1 (Deb1), mRNA [NM_026794]	-0.28	0.035	0.388
Gm6981	NR_023357	ref Mus musculus predicted pseudogene 6981 (Gm6981), non-coding RNA [NR_023357]	-0.28	0.033	0.376
chr14:22267795-22319045_F	chr14:22267795-22319045_F	lincRNA:chr14:22267795-22319045 forward strand	-0.28	0.008	0.190
Srsf7	NM_146083	ref Mus musculus serine/arginine-rich splicing factor 7 (Srsf7), mRNA [NM_146083]	-0.28	0.038	0.405
chr6:35201798-35217831_R	chr6:35201798-35217831_R	lincRNA:chr6:35201798-35217831 reverse strand	-0.28	0.009	0.199
Syngn1	NM_009303	ref Mus musculus synaptogyrin 1 (Syngn1), transcript variant 1b, mRNA [NM_009303]	-0.28	0.018	0.281
Gm10046	NR_033484	ref Mus musculus predicted gene 10046 (Gm10046), non-coding RNA [NR_033484]	-0.28	0.036	0.393
chr1:141070245-141076841_F	chr1:141070245-141076841_F	lincRNA:chr1:141070245-141076841 forward strand	-0.28	0.023	0.321
Cpn2	NM_027904	ref Mus musculus carboxypeptidase N, polypeptide 2 (Cpn2), mRNA [NM_027904]	-0.28	0.020	0.295
Gm11225	XR_033232	ref PREDICTED: Mus musculus similar to 3-hydroxyisobutyrate dehydrogenase (LOC636266), misc RNA [XR_033232]	-0.28	0.039	0.409
Hist2h2ac	NM_175662	ref Mus musculus histone cluster 2, H2ac (Hist2h2ac), mRNA [NM_175662]	-0.28	0.028	0.348
Gm8174	XR_001896	ref PREDICTED: Mus musculus predicted gene, EG666579 (EG666579), misc RNA [XR_001896]	-0.28	0.006	0.160
ligp1	NM_001146275	ref Mus musculus interferon inducible GTPase 1 (ligp1), transcript variant 2, mRNA [NM_001146275]	-0.28	0.043	0.428
Comm9	NM_029635	ref Mus musculus COMM domain containing 9 (Comm9), mRNA [NM_029635]	-0.28	0.010	0.213
Vtn	NM_011707	ref Mus musculus vitronectin (Vtn), mRNA [NM_011707]	-0.28	0.035	0.388
Rbx1	NM_019712	ref Mus musculus ring-box 1 (Rbx1), mRNA [NM_019712]	-0.28	0.011	0.217
Kif21a	NM_001109040	ref Mus musculus kinesin family member 21A (Kif21a), transcript variant 1, mRNA [NM_001109040]	-0.28	0.013	0.247
chr16:43623581-43642715_R	chr16:43623581-43642715_R	lincRNA:chr16:43623581-43642715 reverse strand	-0.28	0.015	0.263
Zfp612	NM_175480	ref Mus musculus zinc finger protein 612 (Zfp612), mRNA [NM_175480]	-0.28	0.039	0.409
Fbrsl1	NM_001142642	ref Mus musculus fibrosin-like 1 (Fbrsl1), transcript variant 1, mRNA [NM_001142642]	-0.28	0.046	0.445
Mrpl47	NM_029017	ref Mus musculus mitochondrial ribosomal protein L47 (Mrpl47), nuclear gene encoding mitochondrial protein, mRNA [NM_029017]	-0.28	0.023	0.321

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
ENSMUST00000019066	ENSMUST00000019066	ens[proline, glutamic acid and leucine rich protein 1 Gene [Source:MGI (curated);Acc:MGI:1922523] [ENSMUST00000019066]	-0.28	0.013	0.247
2810408A11Rik	NM_027419	ref Mus musculus RIKEN cDNA 2810408A11 gene (2810408A11Rik), mRNA [NM_027419]	-0.28	0.040	0.416
Ecsit	NM_012029	ref Mus musculus ECSIT homolog (Drosophila) (Ecsit), nuclear gene encoding mitochondrial protein, mRNA [NM_012029]	-0.28	0.019	0.291
Rgs7	NM_011880	ref Mus musculus regulator of G protein signaling 7 (Rgs7), mRNA [NM_011880]	-0.28	0.021	0.305
Sp9	NM_001005343	ref Mus musculus trans-acting transcription factor 9 (Sp9), mRNA [NM_001005343]	-0.28	0.033	0.376
chr4:57372663-57377164_R	chr4:57372663-57377164_R	lincRNA:chr4:57372663-57377164 reverse strand	-0.28	0.036	0.394
chr13:62117000-62164075_R	chr13:62117000-62164075_R	lincRNA:chr13:62117000-62164075 reverse strand	-0.28	0.010	0.208
3110043O21Rik	NM_001081343	ref Mus musculus RIKEN cDNA 3110043O21 gene (3110043O21Rik), mRNA [NM_001081343]	-0.28	0.008	0.192
Opa3	NM_207525	ref Mus musculus optic atrophy 3 (human) (Opa3), nuclear gene encoding mitochondrial protein, mRNA [NM_207525]	-0.28	0.038	0.402
Gm3212	XM_001476815	ref PREDICTED: Mus musculus hypothetical protein LOC100041222 (LOC100041222), mRNA [XM_001476815]	-0.28	0.047	0.446
Il18bp	NM_010531	ref Mus musculus interleukin 18 binding protein (Il18bp), mRNA [NM_010531]	-0.28	0.038	0.406
Mrpl2	NM_025302	ref Mus musculus mitochondrial ribosomal protein L2 (Mrpl2), nuclear gene encoding mitochondrial protein, mRNA [NM_025302]	-0.28	0.003	0.117
Pole4	NM_025882	ref Mus musculus polymerase (DNA-directed), epsilon 4 (p12 subunit) (Pole4), mRNA [NM_025882]	-0.28	0.012	0.232
Dld	NM_007861	ref Mus musculus dihydrolipoamide dehydrogenase (Dld), mRNA [NM_007861]	-0.28	0.008	0.183
Smg7	NM_001005507	ref Mus musculus Smg-7 homolog, nonsense mediated mRNA decay factor (C. elegans) (Smg7), transcript variant 3, mRNA [NM_001005507]	-0.28	0.005	0.154
Klhdc4	NM_145605	ref Mus musculus kelch domain containing 4 (Klhdc4), mRNA [NM_145605]	-0.28	0.004	0.140
Tomm40	NM_001109748	ref Mus musculus translocase of outer mitochondrial membrane 40 homolog (yeast) (Tomm40), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_001109748]	-0.28	0.017	0.275
Nedd4l	NM_031881	ref Mus musculus neural precursor cell expressed, developmentally down-regulated gene 4-like (Nedd4l), transcript variant 2, mRNA [NM_031881]	-0.28	0.044	0.433
Tmem38a	NM_144534	ref Mus musculus transmembrane protein 38A (Tmem38a), mRNA [NM_144534]	-0.28	0.016	0.273
5830433G22Rik	AK142303	gb Mus musculus 13 days embryo heart cDNA, RIKEN full-length enriched library, clone:D330041D22 product:unclassifiable, full insert sequence. [AK142303]	-0.28	0.019	0.290
3110082D06Rik	NM_028474	ref Mus musculus RIKEN cDNA 3110082D06 gene (3110082D06Rik), mRNA [NM_028474]	-0.28	0.028	0.352
Dgcr2	NM_010048	ref Mus musculus DiGeorge syndrome critical region gene 2 (Dgcr2), transcript variant 1, mRNA [NM_010048]	-0.28	0.010	0.211
Diablo	NM_023232	ref Mus musculus diablo homolog (Drosophila) (Diablo), nuclear gene encoding mitochondrial protein, mRNA [NM_023232]	-0.29	0.028	0.349
Wdr91	NM_001013366	ref Mus musculus WD repeat domain 91 (Wdr91), mRNA [NM_001013366]	-0.29	0.002	0.102
Eid2b	NM_001177427	ref Mus musculus EP300 interacting inhibitor of differentiation 2B (Eid2b), mRNA [NM_001177427]	-0.29	0.006	0.167

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Gfra4	NM_020014	ref Mus musculus glial cell line derived neurotrophic factor family receptor alpha 4 (Gfra4), transcript variant 2, mRNA [NM_020014]	-0.29	0.049	0.456
Znhit3	NM_001005223	ref Mus musculus zinc finger, HIT type 3 (Znhit3), mRNA [NM_001005223]	-0.29	0.011	0.224
Fam163b	NM_175427	ref Mus musculus family with sequence similarity 163, member B (Fam163b), mRNA [NM_175427]	-0.29	0.040	0.415
Bpgm	NM_007563	ref Mus musculus 2,3-bisphosphoglycerate mutase (Bpgm), mRNA [NM_007563]	-0.29	0.012	0.236
Gm11412	XM_001474158	ref PREDICTED: Mus musculus hypothetical protein LOC100040144 (LOC100040144), mRNA [XM_001474158]	-0.29	0.016	0.273
chrX:98680220-98718445_R	chrX:98680220-98718445_R	lincRNA:chrX:98680220-98718445 reverse strand	-0.29	0.038	0.401
Hus1	NM_008316	ref Mus musculus Hus1 homolog (S. pombe) (Hus1), mRNA [NM_008316]	-0.29	0.043	0.427
Ermp1	NM_001081213	ref Mus musculus endoplasmic reticulum metalloproteinase 1 (Ermp1), mRNA [NM_001081213]	-0.29	0.032	0.373
Mrps9	NM_023514	ref Mus musculus mitochondrial ribosomal protein S9 (Mrps9), nuclear gene encoding mitochondrial protein, mRNA [NM_023514]	-0.29	0.009	0.201
Itsn1	NM_010587	ref Mus musculus intersectin 1 (SH3 domain protein 1A) (Itsn1), transcript variant 1, mRNA [NM_010587]	-0.29	0.039	0.410
Chd2	NM_001081345	ref Mus musculus chromodomain helicase DNA binding protein 2 (Chd2), mRNA [NM_001081345]	-0.29	0.018	0.286
Pde4b	NM_019840	ref Mus musculus phosphodiesterase 4B, cAMP specific (Pde4b), transcript variant 1, mRNA [NM_019840]	-0.29	0.014	0.250
Gtl3	NM_008187	ref Mus musculus gene trap locus 3 (Gtl3), mRNA [NM_008187]	-0.29	0.032	0.375
Abhd6	NM_025341	ref Mus musculus abhydrolase domain containing 6 (Abhd6), mRNA [NM_025341]	-0.29	0.035	0.389
Mrpl30	NM_027098	ref Mus musculus mitochondrial ribosomal protein L30 (Mrpl30), nuclear gene encoding mitochondrial protein, mRNA [NM_027098]	-0.29	0.005	0.156
chr3:85589154-85621215_R	chr3:85589154-85621215_R	lincRNA:chr3:85589154-85621215 reverse strand	-0.29	0.023	0.319
Aven	NM_028844	ref Mus musculus apoptosis, caspase activation inhibitor (Aven), transcript variant 1, mRNA [NM_028844]	-0.29	0.011	0.224
Gm14288	NM_001033123	ref Mus musculus predicted gene 14288 (Gm14288), mRNA [NM_001033123]	-0.29	0.024	0.325
Acot8	NM_133240	ref Mus musculus acyl-CoA thioesterase 8 (Acot8), mRNA [NM_133240]	-0.29	0.018	0.285
Pde8b	NM_001170669	ref Mus musculus phosphodiesterase 8B (Pde8b), transcript variant 1, mRNA [NM_001170669]	-0.29	0.050	0.457
chr13:59969950-59989725_F	chr13:59969950-59989725_F	lincRNA:chr13:59969950-59989725 forward strand	-0.29	0.049	0.454
Phactr2	NM_001033257	ref Mus musculus phosphatase and actin regulator 2 (Phactr2), mRNA [NM_001033257]	-0.29	0.013	0.242
Nudt19	NM_033080	ref Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 19 (Nudt19), nuclear gene encoding mitochondrial protein, mRNA [NM_033080]	-0.29	0.005	0.154
Gm5129	NR_028426	ref Mus musculus predicted gene 5129 (Gm5129), non-coding RNA [NR_028426]	-0.29	0.037	0.399
Hmgn2	NM_016957	ref Mus musculus high mobility group nucleosomal binding domain 2 (Hmgn2), mRNA [NM_016957]	-0.29	0.024	0.327
Immp1l	NM_028260	ref Mus musculus IMP1 inner mitochondrial membrane peptidase-like (S. cerevisiae) (Immp1l), nuclear gene encoding mitochondrial protein, mRNA [NM_028260]	-0.29	0.004	0.141
Nefh	NM_010904	ref Mus musculus neurofilament, heavy polypeptide (Nefh), mRNA [NM_010904]	-0.29	0.013	0.249
chr13:104591573-104599048_F	chr13:104591573-104599048_F	lincRNA:chr13:104591573-104599048 forward strand	-0.29	0.049	0.455

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Ltbp1	NM_019919	ref Mus musculus latent transforming growth factor beta binding protein 1 (Ltbp1), transcript variant 1, mRNA [NM_019919]	-0.29	0.048	0.450
Ythdc2	NM_001163013	ref Mus musculus YTH domain containing 2 (Ythdc2), mRNA [NM_001163013]	-0.29	0.027	0.342
GlrX	NM_053108	ref Mus musculus glutaredoxin (GlrX), mRNA [NM_053108]	-0.29	0.016	0.267
Kctd1	NM_001142731	ref Mus musculus potassium channel tetramerisation domain containing 1 (Kctd1), transcript variant 1, mRNA [NM_001142731]	-0.29	0.033	0.376
5830454E08Rik	ENSIMUST00000064646	ens RIKEN cDNA 5830454E08 gene Gene [Source:MGI Symbol;Acc:MGI:1923350] [ENSIMUST00000064646]	-0.29	0.013	0.248
chr8:124355710-124401160_F	chr8:124355710-124401160_F	lincRNA:chr8:124355710-124401160 forward strand	-0.29	0.008	0.194
Gm5130	XR_032640	ref PREDICTED: Mus musculus similar to Mitochondrial methionyl-tRNA formyltransferase (LOC333184), misc RNA [XR_032640]	-0.29	0.032	0.374
Cdk20	NM_053180	ref Mus musculus cyclin-dependent kinase 20 (Cdk20), mRNA [NM_053180]	-0.29	0.008	0.191
chr1:139713316-139913366_R	chr1:139713316-139913366_R	lincRNA:chr1:139713316-139913366 reverse strand	-0.29	0.042	0.423
chr1:33893475-33903900_F	chr1:33893475-33903900_F	lincRNA:chr1:33893475-33903900 forward strand	-0.29	0.047	0.446
IrX4	NM_018885	ref Mus musculus Iroquois related homeobox 4 (Drosophila) (IrX4), mRNA [NM_018885]	-0.29	0.010	0.209
Vmn1r212	NM_134241	ref Mus musculus vomeronasal 1 receptor 212 (Vmn1r212), mRNA [NM_134241]	-0.29	0.013	0.247
Cdh1	NM_009864	ref Mus musculus cadherin 1 (Cdh1), mRNA [NM_009864]	-0.29	0.050	0.457
Fam82a1	NM_201361	ref Mus musculus family with sequence similarity 82, member A1 (Fam82a1), mRNA [NM_201361]	-0.29	0.026	0.338
Prox1	NM_008937	ref Mus musculus prospero-related homeobox 1 (Prox1), mRNA [NM_008937]	-0.29	0.036	0.395
9530083O12Rik	AK079287	gb Mus musculus adult male urinary bladder cDNA, RIKEN full-length enriched library, clone:9530083O12 product:unclassifiable, full insert sequence. [AK079287]	-0.29	0.009	0.198
Ankle1	NM_172756	ref Mus musculus ankyrin repeat and LEM domain containing 1 (Ankle1), mRNA [NM_172756]	-0.29	0.017	0.279
Abcb7	NM_009592	ref Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 7 (Abcb7), nuclear gene encoding mitochondrial protein, mRNA [NM_009592]	-0.29	0.006	0.167
Hist1h2af	NM_175661	ref Mus musculus histone cluster 1, H2af (Hist1h2af), mRNA [NM_175661]	-0.29	0.013	0.245
LOC100045917	XM_001475176	ref PREDICTED: Mus musculus hypothetical protein LOC100045917 (LOC100045917), mRNA [XM_001475176]	-0.29	0.032	0.372
chr17:35080914-35090009_F	chr17:35080914-35090009_F	lincRNA:chr17:35080914-35090009 forward strand	-0.29	0.041	0.421
Ndufa8	NM_026703	ref Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 8 (Ndufa8), nuclear gene encoding mitochondrial protein, mRNA [NM_026703]	-0.29	0.036	0.391
Gtpbp10	NM_153116	ref Mus musculus GTP-binding protein 10 (putative) (Gtpbp10), mRNA [NM_153116]	-0.29	0.010	0.216
Cdc42ep3	NM_026514	ref Mus musculus CDC42 effector protein (Rho GTPase binding) 3 (Cdc42ep3), mRNA [NM_026514]	-0.29	0.008	0.194
chr1:57410074-57426723_R	chr1:57410074-57426723_R	lincRNA:chr1:57410074-57426723 reverse strand	-0.29	0.040	0.416
chr17:41231055-41249764_R	chr17:41231055-41249764_R	lincRNA:chr17:41231055-41249764 reverse strand	-0.29	0.042	0.424
Traf2	NM_009422	ref Mus musculus TNF receptor-associated factor 2 (Traf2), mRNA [NM_009422]	-0.29	0.033	0.377

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
2310057J16Rik	NM_001163749	ref Mus musculus RIKEN cDNA 2310057J16 gene (2310057J16Rik), transcript variant 1, mRNA [NM_001163749]	-0.29	0.010	0.209
ENSMUST00000109069	ENSMUST00000109069	ens Novel KRAB box and zinc finger, C2H2 type domain containing protein [Source:UniProtKB/TrEMBL;Acc:A2ARW3] [ENSMUST00000109069]	-0.30	0.027	0.346
Pdp1	NM_001098230	ref Mus musculus pyruvate dehydrogenase phosphatase catalytic subunit 1 (Pdp1), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA [NM_001098230]	-0.30	0.004	0.135
chr5:33788271-33788845_R	chr5:33788271-33788845_R	lincRNA:chr5:33788271-33788845 reverse strand	-0.30	0.009	0.200
Larp1b	NM_001040399	ref Mus musculus La ribonucleoprotein domain family, member 1B (Larp1b), mRNA [NM_001040399]	-0.30	0.003	0.110
Foxs1	NM_010226	ref Mus musculus forkhead box S1 (Foxs1), mRNA [NM_010226]	-0.30	0.027	0.348
Tcf3	NM_011548	ref Mus musculus transcription factor 3 (Tcf3), transcript variant 8, mRNA [NM_011548]	-0.30	0.023	0.321
Wdr35	NM_172470	ref Mus musculus WD repeat domain 35 (Wdr35), transcript variant 1, mRNA [NM_172470]	-0.30	0.003	0.119
Suox	NM_173733	ref Mus musculus sulfite oxidase (Suox), nuclear gene encoding mitochondrial protein, mRNA [NM_173733]	-0.30	0.004	0.135
Gnb4	NM_013531	ref Mus musculus guanine nucleotide binding protein (G protein), beta 4 (Gnb4), mRNA [NM_013531]	-0.30	0.025	0.334
Mrpl34	NM_053162	ref Mus musculus mitochondrial ribosomal protein L34 (Mrpl34), nuclear gene encoding mitochondrial protein, mRNA [NM_053162]	-0.30	0.023	0.317
St3gal3	NM_009176	ref Mus musculus ST3 beta-galactoside alpha-2,3-sialyltransferase 3 (St3gal3), transcript variant 1, mRNA [NM_009176]	-0.30	0.004	0.137
ENSMUST00000109618	ENSMUST00000109618	ens centrosomal protein 250 Gene [Source:MGI (curated);Acc:MGI:108084] [ENSMUST00000109618]	-0.30	0.025	0.330
chr9:41422319-41425855_F	chr9:41422319-41425855_F	lincRNA:chr9:41422319-41425855 forward strand	-0.30	0.030	0.364
chr4:155585650-155608700_R	chr4:155585650-155608700_R	lincRNA:chr4:155585650-155608700 reverse strand	-0.30	0.028	0.352
Vps45	NM_013841	ref Mus musculus vacuolar protein sorting 45 (yeast) (Vps45), mRNA [NM_013841]	-0.30	0.046	0.443
chr11:97275905-97310538_F	chr11:97275905-97310538_F	lincRNA:chr11:97275905-97310538 forward strand	-0.30	0.026	0.335
Pnpt1	NM_027869	ref Mus musculus polyribonucleotide nucleotidyltransferase 1 (Pnpt1), mRNA [NM_027869]	-0.30	0.003	0.114
D14Ert668e	BC030186	gb Mus musculus DNA segment, Chr 14, ERATO Doi 668, expressed, mRNA (cDNA clone MGC:29273 IMAGE:5067268), complete cds. [BC030186]	-0.30	0.038	0.406
Gnb1l	NM_001081682	ref Mus musculus guanine nucleotide binding protein (G protein), beta polypeptide 1-like (Gnb1l), transcript variant 1, mRNA [NM_001081682]	-0.30	0.035	0.390
LOC100045065	XM_001473977	ref PREDICTED: Mus musculus similar to hCG1978856 (LOC100045065), mRNA [XM_001473977]	-0.30	0.013	0.242
Zmat5	NM_026015	ref Mus musculus zinc finger, matrin type 5 (Zmat5), mRNA [NM_026015]	-0.30	0.034	0.384
Vamp3	NM_009498	ref Mus musculus vesicle-associated membrane protein 3 (Vamp3), mRNA [NM_009498]	-0.30	0.004	0.129
Inpp1	NM_010567	ref Mus musculus inositol polyphosphate phosphatase-like 1 (Inpp1), transcript variant 1, mRNA [NM_010567]	-0.30	0.018	0.283
AK129341	NM_001045524	ref Mus musculus cDNA sequence AK129341 (AK129341), mRNA [NM_001045524]	-0.30	0.035	0.387
Gm4773	XR_032681	ref PREDICTED: Mus musculus similar to prohibitin (LOC211705), misc RNA [XR_032681]	-0.30	0.010	0.208
Actr3b	NM_001004365	ref Mus musculus ARP3 actin-related protein 3 homolog B (yeast) (Actr3b), mRNA [NM_001004365]	-0.30	0.025	0.332

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr17:35080914-35090009_F	chr17:35080914-35090009_F	lincRNA:chr17:35080914-35090009 forward strand	-0.30	0.038	0.403
Inpp5e	NM_033134	ref Mus musculus inositol polyphosphate-5-phosphatase E (Inpp5e), mRNA [NM_033134]	-0.30	0.020	0.297
chr18:47313842-47315840_F	chr18:47313842-47315840_F	lincRNA:chr18:47313842-47315840 forward strand	-0.30	0.015	0.263
Usp11	NM_145628	ref Mus musculus ubiquitin specific peptidase 11 (Usp11), mRNA [NM_145628]	-0.30	0.025	0.331
C030046G05	AK081287	gb Mus musculus adult male corpus striatum cDNA, RIKEN full-length enriched library, clone:C030046G05 product:unclassifiable, full insert sequence. [AK081287]	-0.30	0.008	0.192
Pnpt1	NM_027869	ref Mus musculus polynucleotide nucleotidyltransferase 1 (Pnpt1), mRNA [NM_027869]	-0.30	0.004	0.142
Serpnb8	NM_011459	ref Mus musculus serine (or cysteine) peptidase inhibitor, clade B, member 8 (Serpnb8), transcript variant 1, mRNA [NM_011459]	-0.30	0.009	0.200
Srp19	NM_025527	ref Mus musculus signal recognition particle 19 (Srp19), mRNA [NM_025527]	-0.30	0.016	0.273
Gm11658	XR_031894	ref PREDICTED: Mus musculus similar to LOC654472 protein (LOC194985), misc RNA [XR_031894]	-0.30	0.005	0.150
Lass4	NM_026058	ref Mus musculus LAG1 homolog, ceramide synthase 4 (Lass4), mRNA [NM_026058]	-0.30	0.005	0.154
ENSMUST00000118576	ENSMUST00000118576	ens coiled-coil domain containing 64 Gene [Source:MGI (curated);Acc:MGI:1922915] [ENSMUST00000118576]	-0.30	0.009	0.196
Dlst	NM_030225	ref Mus musculus dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex) (Dlst), mRNA [NM_030225]	-0.30	0.002	0.102
Magef1	XR_005142	ref PREDICTED: Mus musculus RIKEN cDNA 6430590I03 gene (6430590I03Rik), misc RNA [XR_005142]	-0.30	0.007	0.181
ENSMUST00000079338	ENSMUST00000079338	ens SH3/ankyrin domain gene 1 Gene [Source:MGI (curated);Acc:MGI:3613677] [ENSMUST00000079338]	-0.30	0.040	0.415
Masp2	NM_001003893	ref Mus musculus mannan-binding lectin serine peptidase 2 (Masp2), transcript variant 1, mRNA [NM_001003893]	-0.30	0.028	0.351
Pfkm	NM_021514	ref Mus musculus phosphofructokinase, muscle (Pfkm), transcript variant 2, mRNA [NM_021514]	-0.30	0.008	0.187
Zfp367	NM_175494	ref Mus musculus zinc finger protein 367 (Zfp367), mRNA [NM_175494]	-0.30	0.005	0.154
chr14:21029450-21049451_R	chr14:21029450-21049451_R	lincRNA:chr14:21029450-21049451 reverse strand	-0.30	0.026	0.338
Armcl	NM_028840	ref Mus musculus armadillo repeat containing 1 (Armcl), mRNA [NM_028840]	-0.30	0.029	0.354
chr10:120116843-120182671_F	chr10:120116843-120182671_F	lincRNA:chr10:120116843-120182671 forward strand	-0.30	0.034	0.382
chr8:70623390-70645212_R	chr8:70623390-70645212_R	lincRNA:chr8:70623390-70645212 reverse strand	-0.30	0.029	0.354
Atg4d	NM_153583	ref Mus musculus autophagy-related 4D (yeast) (Atg4d), mRNA [NM_153583]	-0.30	0.024	0.326
chr2:104657075-104658840_F	chr2:104657075-104658840_F	lincRNA:chr2:104657075-104658840 forward strand	-0.30	0.037	0.399
Tmem184a	NM_001161548	ref Mus musculus transmembrane protein 184a (Tmem184a), transcript variant 1, mRNA [NM_001161548]	-0.31	0.030	0.360
Mpdz	NM_010820	ref Mus musculus multiple PDZ domain protein (Mpdz), mRNA [NM_010820]	-0.31	0.015	0.264
8430419L09Rik	NM_028982	ref Mus musculus RIKEN cDNA 8430419L09 gene (8430419L09Rik), mRNA [NM_028982]	-0.31	0.005	0.148
2310016G11Rik	ENSMUST00000094460	ens RIKEN cDNA 2310016G11 gene Gene [Source:MGI Symbol;Acc:MGI:1916828] [ENSMUST00000094460]	-0.31	0.043	0.430
Tnfrsf9	NM_011612	ref Mus musculus tumor necrosis factor receptor superfamily, member 9 (Tnfrsf9), transcript variant 1, mRNA [NM_011612]	-0.31	0.009	0.199

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Extl2	NM_021388	ref Mus musculus exostoses (multiple)-like 2 (Extl2), transcript variant 1, mRNA [NM_021388]	-0.31	0.004	0.130
chr17:15357376-15385701_F	chr17:15357376-15385701_F	lincRNA:chr17:15357376-15385701 forward strand	-0.31	0.041	0.422
chr8:24327427-24332452_R	chr8:24327427-24332452_R	lincRNA:chr8:24327427-24332452 reverse strand	-0.31	0.026	0.335
Uros	NM_009479	ref Mus musculus uroporphyrinogen III synthase (Uros), mRNA [NM_009479]	-0.31	0.035	0.390
Fgfr1op2	NM_026218	ref Mus musculus FGFR1 oncogene partner 2 (Fgfr1op2), mRNA [NM_026218]	-0.31	0.014	0.249
ENSMUST00000037174	ENSMUST00000037174	ens nebullette Gene [Source:MGI (curated);Acc:MGI:1921353] [ENSMUST00000037174]	-0.31	0.006	0.167
Nt5c1a	NM_001085502	ref Mus musculus 5'-nucleotidase, cytosolic 1A (Nt5c1a), mRNA [NM_001085502]	-0.31	0.017	0.279
Gm14008	XR_034868	ref PREDICTED: Mus musculus similar to high mobility group nucleosomal binding domain 2 (LOC100043730), misc RNA [XR_034868]	-0.31	0.005	0.154
Adi1	NM_134052	ref Mus musculus acireductone dioxygenase 1 (Adi1), mRNA [NM_134052]	-0.31	0.008	0.190
Ctcf1	NM_001081387	ref Mus musculus CCCTC-binding factor (zinc finger protein)-like (Ctcf1), mRNA [NM_001081387]	-0.31	0.046	0.444
Tnnc2	NM_009394	ref Mus musculus troponin C2, fast (Tnnc2), mRNA [NM_009394]	-0.31	0.023	0.322
Bbs7	NM_027810	ref Mus musculus Bardet-Biedl syndrome 7 (human) (Bbs7), mRNA [NM_027810]	-0.31	0.022	0.314
chr6:31555210-31693051_F	chr6:31555210-31693051_F	lincRNA:chr6:31555210-31693051 forward strand	-0.31	0.013	0.239
chr1:135830093-135840837_F	chr1:135830093-135840837_F	lincRNA:chr1:135830093-135840837 forward strand	-0.31	0.030	0.362
AI597479	NM_133818	ref Mus musculus expressed sequence AI597479 (AI597479), mRNA [NM_133818]	-0.31	0.007	0.171
Oraov1	NM_028184	ref Mus musculus oral cancer overexpressed 1 (Oraov1), mRNA [NM_028184]	-0.31	0.012	0.233
Mitf	NM_001113198	ref Mus musculus microphthalmia-associated transcription factor (Mitf), transcript variant 1, mRNA [NM_001113198]	-0.31	0.033	0.380
Fam54b	NM_029759	ref Mus musculus family with sequence similarity 54, member B (Fam54b), mRNA [NM_029759]	-0.31	0.015	0.263
Prkab1	NM_031869	ref Mus musculus protein kinase, AMP-activated, beta 1 non-catalytic subunit (Prkab1), mRNA [NM_031869]	-0.31	0.013	0.242
Prkab2	NM_182997	ref Mus musculus protein kinase, AMP-activated, beta 2 non-catalytic subunit (Prkab2), mRNA [NM_182997]	-0.31	0.019	0.288
A530064D06Rik	NM_178796	ref Mus musculus RIKEN cDNA A530064D06 gene (A530064D06Rik), transcript variant 1, mRNA [NM_178796]	-0.31	0.003	0.117
chr12:73838608-73862621_R	chr12:73838608-73862621_R	lincRNA:chr12:73838608-73862621 reverse strand	-0.31	0.024	0.328
ENSMUST00000114093	ENSMUST00000114093	ens peptidase (mitochondrial processing) alpha Gene [Source:MGI (curated);Acc:MGI:1918568] [ENSMUST00000114093]	-0.31	0.015	0.260
chr12:3406750-3425850_R	chr12:3406750-3425850_R	lincRNA:chr12:3406750-3425850 reverse strand	-0.31	0.022	0.310
Lzic	NM_026963	ref Mus musculus leucine zipper and CTNNBIP1 domain containing (Lzic), mRNA [NM_026963]	-0.31	0.010	0.211
Siglecg	NM_172900	ref Mus musculus sialic acid binding Ig-like lectin G (Siglecg), mRNA [NM_172900]	-0.31	0.048	0.452
Olf986	NM_146615	ref Mus musculus olfactory receptor 986 (Olf986), mRNA [NM_146615]	-0.31	0.022	0.316
chr13:41337973-41379821_R	chr13:41337973-41379821_R	lincRNA:chr13:41337973-41379821 reverse strand	-0.31	0.024	0.327
Ptprn2	NM_011215	ref Mus musculus protein tyrosine phosphatase, receptor type, N polypeptide 2 (Ptprn2), mRNA [NM_011215]	-0.31	0.028	0.351

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Laptn4b	NM_033521	ref Mus musculus lysosomal-associated protein transmembrane 4B (Laptn4b), mRNA [NM_033521]	-0.31	0.002	0.096
chr6:92040526-92041319_F	chr6:92040526-92041319_F	lincRNA:chr6:92040526-92041319 forward strand	-0.31	0.012	0.236
Gm9620	XR_033292	ref PREDICTED: Mus musculus hypothetical LOC674332 (LOC674332), misc RNA [XR_033292]	-0.31	0.039	0.411
Hnmt	NM_080462	ref Mus musculus histamine N-methyltransferase (Hnmt), mRNA [NM_080462]	-0.31	0.024	0.323
chr7:86661031-86661558_F	chr7:86661031-86661558_F	lincRNA:chr7:86661031-86661558 forward strand	-0.31	0.037	0.399
Gm6660	XR_030541	ref PREDICTED: Mus musculus similar to Xlr-like (LOC626274), misc RNA [XR_030541]	-0.31	0.040	0.416
1110008J03Rik	NM_029096	ref Mus musculus RIKEN cDNA 1110008J03 gene (1110008J03Rik), mRNA [NM_029096]	-0.31	0.018	0.283
Telo2	NM_001163661	ref Mus musculus TEL2, telomere maintenance 2, homolog (S. cerevisiae) (Telo2), transcript variant 1, mRNA [NM_001163661]	-0.31	0.040	0.414
Gm2383	XR_031176	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC100039709), misc RNA [XR_031176]	-0.31	0.003	0.107
Spata2L	NM_030176	ref Mus musculus spermatogenesis associated 2-like (Spata2L), mRNA [NM_030176]	-0.31	0.048	0.449
Gm12251	XM_889356	ref PREDICTED: Mus musculus similar to NADH dehydrogenase (ubiquinone) Fe-S protein 3 (LOC624814), mRNA [XM_889356]	-0.32	0.046	0.444
Pmvk	NM_026784	ref Mus musculus phosphomevalonate kinase (Pmvk), transcript variant 1, mRNA [NM_026784]	-0.32	0.003	0.124
4930579G24Rik	AK137776	gb Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130004M03 product: survivor of motor neuron protein interacting protein 1, full insert sequence. [AK137776]	-0.32	0.048	0.452
chr13:114514159-114514765_R	chr13:114514159-114514765_R	lincRNA:chr13:114514159-114514765 reverse strand	-0.32	0.010	0.207
chr13:28506971-28511732_R	chr13:28506971-28511732_R	lincRNA:chr13:28506971-28511732 reverse strand	-0.32	0.038	0.402
Cdc25a	NM_007658	ref Mus musculus cell division cycle 25 homolog A (S. pombe) (Cdc25a), mRNA [NM_007658]	-0.32	0.027	0.343
LOC100047861	XM_001478901	ref PREDICTED: Mus musculus similar to hCG2019757 (LOC100047861), mRNA [XM_001478901]	-0.32	0.009	0.199
Gfm1	NM_138591	ref Mus musculus G elongation factor, mitochondrial 1 (Gfm1), nuclear gene encoding mitochondrial protein, mRNA [NM_138591]	-0.32	0.011	0.216
Aspdh	NM_026690	ref Mus musculus aspartate dehydrogenase domain containing (Aspdh), mRNA [NM_026690]	-0.32	0.021	0.306
ENSMUST00000063608	ENSMUST00000063608	ens RIKEN cDNA A530006G24 gene Gene [Source:MGI Symbol;Acc:MGI:2685849] [ENSMUST00000063608]	-0.32	0.009	0.197
Golga7b	NM_001141983	ref Mus musculus golgi autoantigen, golgin subfamily a, 7B (Golga7b), transcript variant 1, mRNA [NM_001141983]	-0.32	0.043	0.429
D830039M14Rik	XR_035204	ref PREDICTED: Mus musculus RIKEN cDNA D830039M14 gene (D830039M14Rik), misc RNA [XR_035204]	-0.32	0.015	0.266
Ormdl1	NM_145517	ref Mus musculus ORM1-like 1 (S. cerevisiae) (Ormdl1), mRNA [NM_145517]	-0.32	0.007	0.179
Gm13154	NM_001014397	ref Mus musculus predicted gene 13154 (Gm13154), mRNA [NM_001014397]	-0.32	0.021	0.306
Creg2	NM_170597	ref Mus musculus cellular repressor of E1A-stimulated genes 2 (Creg2), mRNA [NM_170597]	-0.32	0.025	0.332
Upf3b	NM_026573	ref Mus musculus UPF3 regulator of nonsense transcripts homolog B (yeast) (Upf3b), mRNA [NM_026573]	-0.32	0.010	0.214
Gpr183	NM_183031	ref Mus musculus G protein-coupled receptor 183 (Gpr183), mRNA [NM_183031]	-0.32	0.028	0.349

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Myl1	NM_021285	ref Mus musculus myosin, light polypeptide 1 (Myl1), transcript variant 1f, mRNA [NM_021285]	-0.32	0.043	0.428
Pmm2	NM_016881	ref Mus musculus phosphomannomutase 2 (Pmm2), mRNA [NM_016881]	-0.32	0.003	0.113
ENSMUST00000112270	ENSMUST00000112270	ens tetraicopeptide repeat domain 7 Gene [Source:MGI (curated);Acc:MGI:1920999] [ENSMUST00000112270]	-0.32	0.023	0.318
4930402E16Rik	NM_198308	ref Mus musculus RIKEN cDNA 4930402E16 gene (4930402E16Rik), mRNA [NM_198308]	-0.32	0.034	0.385
Mtss1	NM_144800	ref Mus musculus metastasis suppressor 1 (Mtss1), transcript variant 1, mRNA [NM_144800]	-0.32	0.032	0.372
Dtx3l	NM_001013371	ref Mus musculus dextex 3-like (Drosophila) (Dtx3l), mRNA [NM_001013371]	-0.32	0.033	0.376
Pppde2	NM_134095	ref Mus musculus PPPDE peptidase domain containing 2 (Pppde2), mRNA [NM_134095]	-0.32	0.004	0.130
Mef2a	NM_001033713	ref Mus musculus myocyte enhancer factor 2A (Mef2a), mRNA [NM_001033713]	-0.32	0.004	0.127
Tmem50b	NM_030018	ref Mus musculus transmembrane protein 50B (Tmem50b), mRNA [NM_030018]	-0.32	0.018	0.287
Aga	NM_001005847	ref Mus musculus aspartylglucosaminidase (Aga), mRNA [NM_001005847]	-0.32	0.015	0.264
ENSMUST00000098612	ENSMUST00000098612	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UEY6] [ENSMUST00000098612]	-0.32	0.017	0.279
Ccnj	NM_172839	ref Mus musculus cyclin J (Ccnj), mRNA [NM_172839]	-0.32	0.012	0.238
Map3k4	NM_011948	ref Mus musculus mitogen-activated protein kinase kinase kinase 4 (Map3k4), mRNA [NM_011948]	-0.32	0.004	0.130
Sox12	NM_011438	ref Mus musculus SRY-box containing gene 12 (Sox12), mRNA [NM_011438]	-0.32	0.023	0.321
4930544O15Rik	NM_029196	ref Mus musculus RIKEN cDNA 4930544O15 gene (4930544O15Rik), mRNA [NM_029196]	-0.32	0.015	0.259
ENSMUST00000110075	ENSMUST00000110075	ref PREDICTED: Mus musculus similar to ankyrin repeat domain 26 (LOC665858), mRNA [XM_001476565]	-0.32	0.034	0.385
Gm3711	XR_033357	ref PREDICTED: Mus musculus similar to Zbed4 protein (LOC100042188), misc RNA [XR_033357]	-0.32	0.048	0.452
Trappc5	NM_025701	ref Mus musculus trafficking protein particle complex 5 (Trappc5), mRNA [NM_025701]	-0.32	0.002	0.094
Nkiras1	NM_023526	ref Mus musculus NFKB inhibitor interacting Ras-like protein 1 (Nkiras1), mRNA [NM_023526]	-0.32	0.010	0.212
Fgfr1l	NM_054071	ref Mus musculus fibroblast growth factor receptor-like 1 (Fgfr1l), transcript variant 1, mRNA [NM_054071]	-0.32	0.012	0.231
Gm2657	XM_001474254	ref PREDICTED: Mus musculus similar to Ac2-210 (LOC100040198), mRNA [XM_001474254]	-0.32	0.027	0.344
Myl1	NM_001113387	ref Mus musculus myosin, light polypeptide 1 (Myl1), transcript variant 3f, mRNA [NM_001113387]	-0.32	0.035	0.387
chr2:59235155-59242518_F	chr2:59235155-59242518_F	lincRNA:chr2:59235155-59242518 forward strand	-0.32	0.037	0.398
Adra1d	NM_013460	ref Mus musculus adrenergic receptor, alpha 1d (Adra1d), mRNA [NM_013460]	-0.32	0.021	0.306
Pacsin2	NM_011862	ref Mus musculus protein kinase C and casein kinase substrate in neurons 2 (Pacsin2), transcript variant 1, mRNA [NM_011862]	-0.32	0.043	0.428
Dip2b	NM_001159361	ref Mus musculus DIP2 disco-interacting protein 2 homolog B (Drosophila) (Dip2b), transcript variant 1, mRNA [NM_001159361]	-0.32	0.005	0.155
Rprl2	NR_004439	ref Mus musculus ribonuclease P RNA-like 2 (Rprl2), RNase P RNA [NR_004439]	-0.32	0.012	0.234
ENSMUST00000108845	ENSMUST00000108845	ens heart and neural crest derivatives expressed transcript 1 Gene [Source:MGI (curated);Acc:MGI:103577] [ENSMUST00000108845]	-0.32	0.015	0.262
Gm2124	XR_030770	ref PREDICTED: Mus musculus similar to M2-type pyruvate kinase (LOC100039264), misc RNA [XR_030770]	-0.32	0.004	0.135

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Rnase13	NM_001011687	ref Mus musculus ribonuclease, RNase A family, 13 (non-active) (Rnase13), mRNA [NM_001011687]	-0.32	0.041	0.418
Sc5d	NM_172769	ref Mus musculus sterol-C5-desaturase (fungal ERG3, delta-5-desaturase) homolog (S. cerevisiae) (Sc5d), mRNA [NM_172769]	-0.32	0.006	0.170
X99384	NM_013753	ref Mus musculus cDNA sequence X99384 (X99384), mRNA [NM_013753]	-0.32	0.005	0.156
ENSMUST00000098030	ENSMUST00000098030	ens regulator of G-protein signaling 3 Gene [Source:MGI (curated);Acc:MGI:1354734] [ENSMUST00000098030]	-0.33	0.026	0.338
Gm6994	NR_033141	ref Mus musculus predicted gene 6994 (Gm6994), non-coding RNA [NR_033141]	-0.33	0.002	0.092
Rnmtl1	NM_183263	ref Mus musculus RNA methyltransferase like 1 (Rnmtl1), mRNA [NM_183263]	-0.33	0.006	0.167
Rwdd2b	NM_016924	ref Mus musculus RWD domain containing 2B (Rwdd2b), mRNA [NM_016924]	-0.33	0.011	0.220
Gm11992	NM_001037928	ref Mus musculus predicted gene 11992 (Gm11992), mRNA [NM_001037928]	-0.33	0.034	0.385
Zfp763	NM_028543	ref Mus musculus zinc finger protein 763 (Zfp763), mRNA [NM_028543]	-0.33	0.018	0.284
Cntnap2	NM_001004357	ref Mus musculus contactin associated protein-like 2 (Cntnap2), transcript variant 1, mRNA [NM_001004357]	-0.33	0.035	0.387
2410127L17Rik	NM_026120	ref Mus musculus RIKEN cDNA 2410127L17 gene (2410127L17Rik), mRNA [NM_026120]	-0.33	0.004	0.138
Gm7792	XM_981891	ref PREDICTED: Mus musculus predicted gene, EG665802, transcript variant 6 (EG665802), mRNA [XM_981891]	-0.33	0.028	0.351
Hnmt	NM_080462	ref Mus musculus histamine N-methyltransferase (Hnmt), mRNA [NM_080462]	-0.33	0.027	0.346
Synj2bp	NM_025292	ref Mus musculus synaptotagmin 2 binding protein (Synj2bp), mRNA [NM_025292]	-0.33	0.012	0.234
Msh3	NM_010829	ref Mus musculus mutS homolog 3 (E. coli) (Msh3), mRNA [NM_010829]	-0.33	0.014	0.253
Gm13812	XR_005019	ref PREDICTED: Mus musculus similar to Pyruvate kinase, muscle (LOC241572), misc RNA [XR_005019]	-0.33	0.003	0.115
Syt5	NM_016908	ref Mus musculus synaptotagmin V (Syt5), mRNA [NM_016908]	-0.33	0.044	0.434
Wnt5a	NM_009524	ref Mus musculus wingless-related MMTV integration site 5A (Wnt5a), mRNA [NM_009524]	-0.33	0.004	0.128
chr4:98943050-98959998_R	chr4:98943050-98959998_R	lincRNA:chr4:98943050-98959998 reverse strand	-0.33	0.025	0.332
chr17:95255725-95272425_R	chr17:95255725-95272425_R	lincRNA:chr17:95255725-95272425 reverse strand	-0.33	0.005	0.143
ENSMUST00000118651	ENSMUST00000118651	ens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6C Gene [Source:MGI (curated);Acc:MGI:1338032] [ENSMUST00000118651]	-0.33	0.025	0.332
4930571K23Rik	NM_001145759	ref Mus musculus RIKEN cDNA 4930571K23 gene (4930571K23Rik), mRNA [NM_001145759]	-0.33	0.049	0.455
LOC100045393	XR_031783	ref PREDICTED: Mus musculus similar to guanosine monophosphate reductase (LOC100045393), misc RNA [XR_031783]	-0.33	0.009	0.206
Dnhd1	XM_983220	ref PREDICTED: Mus musculus dynein heavy chain domain 1 (Dnhd1), mRNA [XM_983220]	-0.33	0.034	0.382
Pde7b	NM_013875	ref Mus musculus phosphodiesterase 7B (Pde7b), mRNA [NM_013875]	-0.33	0.026	0.342
1810013D10Rik	NM_001145433	ref Mus musculus RIKEN cDNA 1810013D10 gene (1810013D10Rik), mRNA [NM_001145433]	-0.33	0.013	0.242
Ssbp1	ENSMUST00000121360	ens single-stranded DNA binding protein 1 Gene [Source:MGI (curated);Acc:MGI:1920040] [ENSMUST00000121360]	-0.33	0.005	0.147
chr15:73227424-73257474_F	chr15:73227424-73257474_F	lincRNA:chr15:73227424-73257474 forward strand	-0.33	0.007	0.179

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
ENSMUST00000044043	ENSMUST00000044043	ens Cytochrome c oxidase subunit 5B, mitochondrial Precursor (Cytochrome c oxidase polypeptide Vb) [Source:UniProtKB/Swiss-Prot;Acc:P19536] [ENSMUST00000044043]	-0.33	0.022	0.314
2810006K23Rik	NM_028310	ref Mus musculus RIKEN cDNA 2810006K23 gene (2810006K23Rik), transcript variant 2, mRNA [NM_028310]	-0.33	0.040	0.415
Ttc19	NM_028360	ref Mus musculus tetratricopeptide repeat domain 19 (Ttc19), transcript variant 1, mRNA [NM_028360]	-0.33	0.024	0.326
Gm10290	ENSMUST00000094104	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH), transcript variant 1 (LOC100039258), mRNA [XM_001472531]	-0.33	0.004	0.139
Isg20	NM_020583	ref Mus musculus interferon-stimulated protein (Isg20), transcript variant 1, mRNA [NM_020583]	-0.33	0.002	0.088
Nrp1	NM_008737	ref Mus musculus neuropilin 1 (Nrp1), mRNA [NM_008737]	-0.33	0.021	0.306
Gm5132	NM_001085517	ref Mus musculus predicted gene 5132 (Gm5132), mRNA [NM_001085517]	-0.33	0.036	0.394
chr10:60473030-60535340_F	chr10:60473030-60535340_F	lincRNA:chr10:60473030-60535340 forward strand	-0.33	0.010	0.212
LOC100047861	XM_001478901	ref PREDICTED: Mus musculus similar to hCG2019757 (LOC100047861), mRNA [XM_001478901]	-0.33	0.010	0.207
Gm12070	NR_002890	ref Mus musculus predicted gene 12070 (Gm12070), non-coding RNA [NR_002890]	-0.33	0.002	0.096
Mrpl9	NM_030116	ref Mus musculus mitochondrial ribosomal protein L9 (Mrpl9), nuclear gene encoding mitochondrial protein, mRNA [NM_030116]	-0.33	0.002	0.100
chr17:32213027-32228368_R	chr17:32213027-32228368_R	lincRNA:chr17:32213027-32228368 reverse strand	-0.33	0.017	0.280
Dcun1d2	NM_001024504	ref Mus musculus DCN1, defective in cullin neddylation 1, domain containing 2 (S. cerevisiae) (Dcun1d2), transcript variant 1, mRNA [NM_001024504]	-0.33	0.044	0.435
Cda	NM_028176	ref Mus musculus cytidine deaminase (Cda), mRNA [NM_028176]	-0.33	0.013	0.247
chr5:121768672-121772658_F	chr5:121768672-121772658_F	lincRNA:chr5:121768672-121772658 forward strand	-0.33	0.018	0.286
Ptrf	NM_008986	ref Mus musculus polymerase I and transcript release factor (Ptrf), mRNA [NM_008986]	-0.33	0.020	0.295
Myh8	NM_177369	ref Mus musculus myosin, heavy polypeptide 8, skeletal muscle, perinatal (Myh8), mRNA [NM_177369]	-0.33	0.034	0.385
Gnb1l	NM_023120	ref Mus musculus guanine nucleotide binding protein (G protein), beta polypeptide 1-like (Gnb1l), transcript variant 2, mRNA [NM_023120]	-0.33	0.024	0.329
chr5:111612191-111652286_F	chr5:111612191-111652286_F	lincRNA:chr5:111612191-111652286 forward strand	-0.34	0.025	0.333
chr5:125861675-125880125_F	chr5:125861675-125880125_F	lincRNA:chr5:125861675-125880125 forward strand	-0.34	0.043	0.427
Fam69c	NM_173770	ref Mus musculus family with sequence similarity 69, member C (Fam69c), mRNA [NM_173770]	-0.34	0.042	0.424
ENSMUST00000118465	ENSMUST00000118465	ens guanine nucleotide binding protein (G protein), gamma 7 Gene [Source:MGI (curated);Acc:MGI:95787] [ENSMUST00000118465]	-0.34	0.018	0.284
Ubac1	BC021811	gb Mus musculus ubiquitin associated domain containing 1, mRNA (cDNA clone MGC:30259 IMAGE:3662474), complete cds. [BC021811]	-0.34	0.023	0.319
Psme3	NM_011192	ref Mus musculus proteasome (prosome, macropain) 28 subunit, 3 (Psme3), mRNA [NM_011192]	-0.34	0.008	0.190
Celsr2	NM_017392	ref Mus musculus cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila) (Celsr2), transcript variant 1, mRNA [NM_017392]	-0.34	0.027	0.343
0610012G03Rik	NR_027897	ref Mus musculus RIKEN cDNA 0610012G03 gene (0610012G03Rik), non-coding RNA [NR_027897]	-0.34	0.017	0.274

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
ENSMUST00000103356	ENSMUST00000103356	gb Mus musculus immunoglobulin kappa light chain, variable region mRNA, clone BALB/c-26, partial cds. [U18569]	-0.34	0.048	0.452
ENSMUST00000005281	ENSMUST00000005281	ens WD repeat domain containing 83 Gene [Source:MGI Symbol;Acc:MGI:1915086] [ENSMUST00000005281]	-0.34	0.022	0.316
Klra16	NM_013794	ref Mus musculus killer cell lectin-like receptor, subfamily A, member 16 (Klra16), mRNA [NM_013794]	-0.34	0.025	0.334
chr2:25182970-25188091_R	chr2:25182970-25188091_R	lincRNA:chr2:25182970-25188091 reverse strand	-0.34	0.048	0.451
Snora74a	NR_002905	ref Mus musculus small nucleolar RNA, H/ACA box 74A (Snora74a), small nucleolar RNA [NR_002905]	-0.34	0.019	0.287
chr16:31321192-31333486_R	chr16:31321192-31333486_R	lincRNA:chr16:31321192-31333486 reverse strand	-0.34	0.049	0.452
2810422O20Rik	NM_027279	ref Mus musculus RIKEN cDNA 2810422O20 gene (2810422O20Rik), mRNA [NM_027279]	-0.34	0.004	0.136
Pdrg1	NM_178939	ref Mus musculus p53 and DNA damage regulated 1 (Pdrg1), mRNA [NM_178939]	-0.34	0.006	0.160
Galnt10	NM_134189	ref Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 10 (Galnt10), mRNA [NM_134189]	-0.34	0.022	0.316
1700088E04Rik	NM_138581	ref Mus musculus RIKEN cDNA 1700088E04 gene (1700088E04Rik), mRNA [NM_138581]	-0.34	0.004	0.129
chr15:79709500-79714700_F	chr15:79709500-79714700_F	lincRNA:chr15:79709500-79714700 forward strand	-0.34	0.018	0.285
Plekha8	NM_001164361	ref Mus musculus pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 8 (Plekha8), transcript variant 1, mRNA [NM_001164361]	-0.34	0.004	0.130
Slc26a6	NM_134420	ref Mus musculus solute carrier family 26, member 6 (Slc26a6), mRNA [NM_134420]	-0.34	0.008	0.194
Mkl2	NM_181860	ref Mus musculus MKL/myocardin-like 2 (Mkl2), transcript variant 2, mRNA [NM_181860]	-0.34	0.018	0.286
chr16:90008636-90015586_F	chr16:90008636-90015586_F	lincRNA:chr16:90008636-90015586 forward strand	-0.34	0.021	0.305
Pdp1	NM_001098230	ref Mus musculus pyruvate dehydrogenase phosphatase catalytic subunit 1 (Pdp1), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA [NM_001098230]	-0.34	0.032	0.373
Dnalc4	NM_017470	ref Mus musculus dynein, axonemal, light chain 4 (Dnalc4), mRNA [NM_017470]	-0.34	0.003	0.117
Lrrc67	NM_027033	ref Mus musculus leucine rich repeat containing 67 (Lrrc67), transcript variant 1, mRNA [NM_027033]	-0.34	0.028	0.349
Lypd2	NM_026671	ref Mus musculus Ly6/Plaur domain containing 2 (Lypd2), mRNA [NM_026671]	-0.34	0.037	0.398
Cdk5	NM_007668	ref Mus musculus cyclin-dependent kinase 5 (Cdk5), mRNA [NM_007668]	-0.34	0.021	0.302
Rps6ka5	NM_153587	ref Mus musculus ribosomal protein S6 kinase, polypeptide 5 (Rps6ka5), mRNA [NM_153587]	-0.34	0.020	0.298
Gpsm1	NM_153410	ref Mus musculus G-protein signalling modulator 1 (AGS3-like, C. elegans) (Gpsm1), mRNA [NM_153410]	-0.34	0.004	0.138
chr13:62771112-62786278_R	chr13:62771112-62786278_R	lincRNA:chr13:62771112-62786278 reverse strand	-0.34	0.036	0.392
chr5:33773842-33942967_R	chr5:33773842-33942967_R	lincRNA:chr5:33773842-33942967 reverse strand	-0.34	0.026	0.337
Mrpl49	NM_026246	ref Mus musculus mitochondrial ribosomal protein L49 (Mrpl49), nuclear gene encoding mitochondrial protein, mRNA [NM_026246]	-0.34	0.001	0.078
Dusp23	XM_001480680	ref PREDICTED: Mus musculus similar to Dual specificity phosphatase 23 (LOC100048558), mRNA [XM_001480680]	-0.34	0.027	0.345

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Inha	NM_010564	ref Mus musculus inhibin alpha (Inha), mRNA [NM_010564]	-0.34	0.048	0.450
Fign	NM_021716	ref Mus musculus fidgetin (Fign), mRNA [NM_021716]	-0.34	0.009	0.195
Dtx3l	NM_001013371	ref Mus musculus deltex 3-like (Drosophila) (Dtx3l), mRNA [NM_001013371]	-0.34	0.016	0.270
2700050L05Rik	NM_178115	ref Mus musculus RIKEN cDNA 2700050L05 gene (2700050L05Rik), mRNA [NM_178115]	-0.34	0.014	0.249
Clcn2	NM_009900	ref Mus musculus chloride channel 2 (Clcn2), mRNA [NM_009900]	-0.34	0.043	0.428
Olf1508	NM_020513	ref Mus musculus olfactory receptor 1508 (Olf1508), mRNA [NM_020513]	-0.34	0.038	0.404
LOC676813	XR_034014	ref PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate dehydrogenase (LOC676813), misc RNA [XR_034014]	-0.34	0.002	0.086
Fam160a1	NM_172682	ref Mus musculus family with sequence similarity 160, member A1 (Fam160a1), mRNA [NM_172682]	-0.34	0.008	0.190
Tssk3	NM_080442	ref Mus musculus testis-specific serine kinase 3 (Tssk3), mRNA [NM_080442]	-0.34	0.014	0.253
AU015232	BG083151	gb H3085A09-5 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3085A09 5', mRNA sequence [BG083151]	-0.34	0.012	0.234
chr11:102878974-102888924_R	chr11:102878974-102888924_R	lincRNA:chr11:102878974-102888924 reverse strand	-0.34	0.010	0.216
LOC100048624	XM_001480448	ref PREDICTED: Mus musculus hypothetical protein LOC100048624 (LOC100048624), mRNA [XM_001480448]	-0.34	0.005	0.155
Bivm	NM_144558	ref Mus musculus basic, immunoglobulin-like variable motif containing (Bivm), mRNA [NM_144558]	-0.34	0.016	0.274
Atpaf2	NM_145427	ref Mus musculus ATP synthase mitochondrial F1 complex assembly factor 2 (Atpaf2), nuclear gene encoding mitochondrial protein, mRNA [NM_145427]	-0.34	0.003	0.113
chr2:153163620-153170845_R	chr2:153163620-153170845_R	lincRNA:chr2:153163620-153170845 reverse strand	-0.34	0.034	0.380
P4ha1	NM_011030	ref Mus musculus procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha 1 polypeptide (P4ha1), mRNA [NM_011030]	-0.34	0.005	0.152
chr17:56791549-56803877_R	chr17:56791549-56803877_R	lincRNA:chr17:56791549-56803877 reverse strand	-0.34	0.021	0.303
BC018507	NM_144837	ref Mus musculus cDNA sequence BC018507 (BC018507), mRNA [NM_144837]	-0.34	0.007	0.179
ENSMUST00000106642	ENSMUST00000106642	Unknown	-0.34	0.027	0.343
D330025C20Rik	XM_974210	ref PREDICTED: Mus musculus RIKEN cDNA D330025C20 gene (D330025C20Rik), mRNA [XM_974210]	-0.34	0.039	0.411
ENSMUST00000108660	ENSMUST00000108660	ens cytochrome b5 domain containing 1 Gene [Source:MGI (curated);Acc:MGI:2685586] [ENSMUST00000108660]	-0.34	0.031	0.371
chrX:120300373-120302404_F	chrX:120300373-120302404_F	lincRNA:chrX:120300373-120302404 forward strand	-0.34	0.020	0.294
Gmnn	NM_020567	ref Mus musculus geminin (Gmnn), mRNA [NM_020567]	-0.34	0.046	0.444
Lin9	NM_001103182	ref Mus musculus lin-9 homolog (C. elegans) (Lin9), transcript variant 1, mRNA [NM_001103182]	-0.34	0.008	0.194
Prpf4	NM_027297	ref Mus musculus PRP4 pre-mRNA processing factor 4 homolog (yeast) (Prpf4), mRNA [NM_027297]	-0.34	0.006	0.162
Lrp3	NM_001024707	ref Mus musculus low density lipoprotein receptor-related protein 3 (Lrp3), mRNA [NM_001024707]	-0.34	0.008	0.184
Ak4	NM_001177602	ref Mus musculus adenylate kinase 4 (Ak4), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_001177602]	-0.34	0.001	0.071
Exoc3	NM_177333	ref Mus musculus exocyst complex component 3 (Exoc3), mRNA [NM_177333]	-0.35	0.021	0.306

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
ENSMUST00000075602	ENSMUST00000075602	ref PREDICTED: Mus musculus similar to high mobility group nucleosomal binding domain 2 (LOC671242), mRNA [XM_001478394]	-0.35	0.004	0.129
E130110022Rik	AK053566	gb Mus musculus 0 day neonate eyeball cDNA, RIKEN full-length enriched library, clone:E130110022 product:unclassifiable, full insert sequence. [AK053566]	-0.35	0.039	0.407
Plcl2	NM_013880	ref Mus musculus phospholipase C-like 2 (Plcl2), mRNA [NM_013880]	-0.35	0.033	0.376
Slc26a6	NM_134420	ref Mus musculus solute carrier family 26, member 6 (Slc26a6), mRNA [NM_134420]	-0.35	0.002	0.103
chr4:21683562-21694350_R	chr4:21683562-21694350_R	lincRNA:chr4:21683562-21694350 reverse strand	-0.35	0.007	0.179
chr1:36012298-36020311_R	chr1:36012298-36020311_R	lincRNA:chr1:36012298-36020311 reverse strand	-0.35	0.005	0.154
chr15:63902437-63908787_F	chr15:63902437-63908787_F	lincRNA:chr15:63902437-63908787 forward strand	-0.35	0.025	0.331
Plcb2	NM_177568	ref Mus musculus phospholipase C, beta 2 (Plcb2), mRNA [NM_177568]	-0.35	0.029	0.353
Pigyl	NM_001082532	ref Mus musculus phosphatidylinositol glycan anchor biosynthesis, class Y-like (Pigyl), mRNA [NM_001082532]	-0.35	0.029	0.354
BC048679	NM_183143	ref Mus musculus cDNA sequence BC048679 (BC048679), mRNA [NM_183143]	-0.35	0.033	0.376
chrX:100688896-100701764_F	chrX:100688896-100701764_F	lincRNA:chrX:100688896-100701764 forward strand	-0.35	0.019	0.293
LOC100044787	XR_031000	ref PREDICTED: Mus musculus similar to CWF19-like 1, cell cycle control (LOC100044787), misc RNA [XR_031000]	-0.35	0.010	0.210
Bpil2	NM_177772	ref Mus musculus bactericidal/permeability-increasing protein-like 2 (Bpil2), mRNA [NM_177772]	-0.35	0.002	0.099
Rassf3	NM_138956	ref Mus musculus Ras association (RalGDS/AF-6) domain family member 3 (Rassf3), mRNA [NM_138956]	-0.35	0.017	0.275
Gm4715	XM_001481185	ref PREDICTED: Mus musculus hypothetical protein LOC100043895 (LOC100043895), mRNA [XM_001481185]	-0.35	0.034	0.384
chr1:194659312-194661407_R	chr1:194659312-194661407_R	lincRNA:chr1:194659312-194661407 reverse strand	-0.35	0.015	0.260
Sp8	NM_177082	ref Mus musculus trans-acting transcription factor 8 (Sp8), mRNA [NM_177082]	-0.35	0.016	0.274
chr12:111079867-111080561_R	chr12:111079867-111080561_R	lincRNA:chr12:111079867-111080561 reverse strand	-0.35	0.023	0.321
chr15:68924889-68931607_R	chr15:68924889-68931607_R	lincRNA:chr15:68924889-68931607 reverse strand	-0.35	0.047	0.446
Scn4a	NM_133199	ref Mus musculus sodium channel, voltage-gated, type IV, alpha (Scn4a), mRNA [NM_133199]	-0.35	0.007	0.172
Itgb7	NM_013566	ref Mus musculus integrin beta 7 (Itgb7), mRNA [NM_013566]	-0.35	0.037	0.401
Asb3	NM_023906	ref Mus musculus ankyrin repeat and SOCS box-containing 3 (Asb3), mRNA [NM_023906]	-0.35	0.021	0.306
Gadd45gip1	NM_183358	ref Mus musculus growth arrest and DNA-damage-inducible, gamma interacting protein 1 (Gadd45gip1), mRNA [NM_183358]	-0.35	0.020	0.295
A_55_P2389893	A_55_P2389893	Unknown	-0.35	0.035	0.390
Cox15	NM_144874	ref Mus musculus COX15 homolog, cytochrome c oxidase assembly protein (yeast) (Cox15), nuclear gene encoding mitochondrial protein, mRNA [NM_144874]	-0.35	0.044	0.433
Pde4b	NM_019840	ref Mus musculus phosphodiesterase 4B, cAMP specific (Pde4b), transcript variant 1, mRNA [NM_019840]	-0.35	0.018	0.284
chr10:74325583-74396665_R	chr10:74325583-74396665_R	lincRNA:chr10:74325583-74396665 reverse strand	-0.35	0.011	0.216
Gtf2h3	NM_181410	ref Mus musculus general transcription factor IIH, polypeptide 3 (Gtf2h3), mRNA [NM_181410]	-0.35	0.012	0.230

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
Insrr	NM_011832	ref Mus musculus insulin receptor-related receptor (Insrr), mRNA [NM_011832]	-0.35	0.012	0.233
Kcnb1	NM_008420	ref Mus musculus potassium voltage gated channel, Shab-related subfamily, member 1 (Kcnb1), mRNA [NM_008420]	-0.35	0.011	0.226
Tbc1d30	NM_029057	ref Mus musculus TBC1 domain family, member 30 (Tbc1d30), mRNA [NM_029057]	-0.35	0.025	0.331
Smyd1	NM_009762	ref Mus musculus SET and MYND domain containing 1 (Smyd1), transcript variant 2, mRNA [NM_009762]	-0.35	0.014	0.253
ENSMUST00000040486	ENSMUST00000040486	ens SV2 related protein homolog (rat)-like Gene [Source:MGI (curated);Acc:MGI:2444335] [ENSMUST00000040486]	-0.35	0.008	0.190
LOC100045888	XM_001475109	ref PREDICTED: Mus musculus hypothetical protein LOC100045888 (LOC100045888), mRNA [XM_001475109]	-0.35	0.050	0.457
Gm6946	XR_033648	ref PREDICTED: Mus musculus similar to LOC654472 protein (LOC629081), misc RNA [XR_033648]	-0.35	0.001	0.051
Tg	NM_009375	ref Mus musculus thyroglobulin (Tg), mRNA [NM_009375]	-0.35	0.019	0.294
Olf262	NM_146688	ref Mus musculus olfactory receptor 262 (Olf262), mRNA [NM_146688]	-0.35	0.049	0.454
Cyb5b	NM_025558	ref Mus musculus cytochrome b5 type B (Cyb5b), nuclear gene encoding mitochondrial protein, mRNA [NM_025558]	-0.36	0.012	0.238
Tsc22d4	NM_023910	ref Mus musculus TSC22 domain family, member 4 (Tsc22d4), mRNA [NM_023910]	-0.36	0.004	0.140
2310028O11Rik	NM_001163006	ref Mus musculus RIKEN cDNA 2310028O11 gene (2310028O11Rik), transcript variant 1, mRNA [NM_001163006]	-0.36	0.008	0.192
Slc16a7	NM_011391	ref Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 7 (Slc16a7), mRNA [NM_011391]	-0.36	0.031	0.368
Hemt1	NM_010416	ref Mus musculus hematopoietic cell transcript 1 (Hemt1), mRNA [NM_010416]	-0.36	0.040	0.416
Gramd4	NM_172611	ref Mus musculus GRAM domain containing 4 (Gramd4), mRNA [NM_172611]	-0.36	0.030	0.361
Rad51l3	NM_011235	ref Mus musculus RAD51-like 3 (S. cerevisiae) (Rad51l3), mRNA [NM_011235]	-0.36	0.029	0.358
Xylt1	NM_175645	ref Mus musculus xylosyltransferase 1 (Xylt1), mRNA [NM_175645]	-0.36	0.046	0.444
Olf708	NM_001011542	ref Mus musculus olfactory receptor 708 (Olf708), mRNA [NM_001011542]	-0.36	0.008	0.191
Dio1	NM_007860	ref Mus musculus deiodinase, iodothyronine, type I (Dio1), mRNA [NM_007860]	-0.36	0.022	0.311
Hopx	NM_175606	ref Mus musculus HOP homeobox (Hopx), transcript variant 1, mRNA [NM_175606]	-0.36	0.007	0.171
Rragb	NM_001004154	ref Mus musculus Ras-related GTP binding B (Rragb), mRNA [NM_001004154]	-0.36	0.009	0.203
Gpr161	NM_001081126	ref Mus musculus G protein-coupled receptor 161 (Gpr161), mRNA [NM_001081126]	-0.36	0.030	0.362
Mrpl50	NM_178603	ref Mus musculus mitochondrial ribosomal protein L50 (Mrpl50), nuclear gene encoding mitochondrial protein, mRNA [NM_178603]	-0.36	0.003	0.119
ENSMUST000000089584	ENSMUST000000089584	tc MMSR2 sepiapterin reductase {Mus musculus} (exp=-1; wgp=0; cg=0), partial (30%) [TC1662837]	-0.36	0.011	0.223
Aars2	NM_198608	ref Mus musculus alanyl-tRNA synthetase 2, mitochondrial (putative) (Aars2), nuclear gene encoding mitochondrial protein, mRNA [NM_198608]	-0.36	0.034	0.385
Lca5	NM_029434	ref Mus musculus Leber congenital amaurosis 5 (human) (Lca5), transcript variant 1, mRNA [NM_029434]	-0.36	0.014	0.255
chr2:153163620-153170845_R	chr2:153163620-153170845_R	lincRNA:chr2:153163620-153170845 reverse strand	-0.36	0.002	0.087

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
chr1:163508244-163586072_R	chr1:163508244-163586072_R	lincRNA:chr1:163508244-163586072 reverse strand	-0.36	0.046	0.444
Trdn	NM_029726	ref Mus musculus triadin (Trdn), mRNA [NM_029726]	-0.36	0.012	0.231
ENSMUST00000113284	ENSMUST00000113284	ens transcription factor EB Gene [Source:MGI (curated);Acc:MGI:103270] [ENSMUST00000113284]	-0.36	0.023	0.317
chr1:88396166-88396660_R	chr1:88396166-88396660_R	lincRNA:chr1:88396166-88396660 reverse strand	-0.36	0.046	0.444
Prune2	NM_181348	ref Mus musculus prune homolog 2 (Drosophila) (Prune2), mRNA [NM_181348]	-0.36	0.008	0.184
Fhod3	NM_175276	ref Mus musculus fomin homology 2 domain containing 3 (Fhod3), mRNA [NM_175276]	-0.36	0.001	0.066
chr16:90038086-90127636_R	chr16:90038086-90127636_R	lincRNA:chr16:90038086-90127636 reverse strand	-0.36	0.013	0.246
chr1:45066850-45095650_R	chr1:45066850-45095650_R	lincRNA:chr1:45066850-45095650 reverse strand	-0.36	0.036	0.394
Dusp7	NM_153459	ref Mus musculus dual specificity phosphatase 7 (Dusp7), mRNA [NM_153459]	-0.36	0.006	0.161
LOC633703	XR_031708	ref PREDICTED: Mus musculus similar to high mobility group box 3 (LOC633703), misc RNA [XR_031708]	-0.36	0.009	0.200
Klra15	NM_013793	ref Mus musculus killer cell lectin-like receptor, subfamily A, member 15 (Klra15), mRNA [NM_013793]	-0.36	0.023	0.317
D030051J21Rik	AK083595	gb Mus musculus 9 days embryo whole body cDNA, RIKEN full-length enriched library, clone:D030051J21 product:unclassifiable, full insert sequence. [AK083595]	-0.36	0.034	0.384
Zfp386	NM_001004066	ref Mus musculus zinc finger protein 386 (Kruppel-like) (Zfp386), transcript variant 1, mRNA [NM_001004066]	-0.36	0.033	0.380
chr13:24833082-24838461_F	chr13:24833082-24838461_F	lincRNA:chr13:24833082-24838461 forward strand	-0.36	0.042	0.423
chr9:30529709-30589042_R	chr9:30529709-30589042_R	lincRNA:chr9:30529709-30589042 reverse strand	-0.36	0.046	0.444
Mrvi1	NM_194464	ref Mus musculus MRV integration site 1 (Mrvi1), transcript variant 2, mRNA [NM_194464]	-0.36	0.028	0.353
Epb4.9	ENSMUST00000110984	ens erythrocyte protein band 4.9 Gene [Source:MGI Symbol;Acc:MGI:99670] [ENSMUST00000110984]	-0.36	0.008	0.185
Slc25a37	NM_026331	ref Mus musculus solute carrier family 25, member 37 (Slc25a37), nuclear gene encoding mitochondrial protein, mRNA [NM_026331]	-0.36	0.013	0.248
E030019B06Rik	XM_916666	ref PREDICTED: Mus musculus RIKEN cDNA E030019B06 gene (E030019B06Rik), mRNA [XM_916666]	-0.36	0.011	0.218
Slc35a5	NM_028756	ref Mus musculus solute carrier family 35, member A5 (Slc35a5), mRNA [NM_028756]	-0.36	0.010	0.208
Ank2	NM_178655	ref Mus musculus ankyrin 2, brain (Ank2), transcript variant 2, mRNA [NM_178655]	-0.36	0.009	0.197
Cops7b	NM_172974	ref Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 7b (Arabidopsis thaliana) (Cops7b), mRNA [NM_172974]	-0.36	0.018	0.281
Tsfm	NM_025537	ref Mus musculus Ts translation elongation factor, mitochondrial (Tsfm), nuclear gene encoding mitochondrial protein, mRNA [NM_025537]	-0.36	0.027	0.347
Es22	NM_133660	ref Mus musculus esterase 22 (Es22), mRNA [NM_133660]	-0.36	0.033	0.376
Ano10	NM_133979	ref Mus musculus anoctamin 10 (Ano10), mRNA [NM_133979]	-0.36	0.047	0.446
Cdh8	NM_007667	ref Mus musculus cadherin 8 (Cdh8), transcript variant 2, mRNA [NM_007667]	-0.36	0.015	0.260
Sobp	NM_175407	ref Mus musculus sine oculis-binding protein homolog (Drosophila) (Sobp), mRNA [NM_175407]	-0.37	0.019	0.288
Fam117a	NM_172543	ref Mus musculus family with sequence similarity 117, memberA (Fam117a), mRNA [NM_172543]	-0.37	0.049	0.456
Hdac7	NM_019572	ref Mus musculus histone deacetylase 7 (Hdac7), mRNA [NM_019572]	-0.37	0.005	0.151

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Gm7286	XR_034212	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC640094), misc RNA [XR_034212]	-0.37	0.001	0.075
Olfr16	NM_008763	ref Mus musculus olfactory receptor 16 (Olfr16), mRNA [NM_008763]	-0.37	0.026	0.336
Lekr1	NM_001037923	ref Mus musculus leucine, glutamate and lysine rich 1 (Lekr1), transcript variant 2, mRNA [NM_001037923]	-0.37	0.009	0.201
Rab22a	NM_024436	ref Mus musculus RAB22A, member RAS oncogene family (Rab22a), mRNA [NM_024436]	-0.37	0.031	0.369
Vac14	NM_146216	ref Mus musculus Vac14 homolog (S. cerevisiae) (Vac14), mRNA [NM_146216]	-0.37	0.014	0.253
C030005K06Rik	AK137789	gb Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130009K03 product:unclassifiable, full insert sequence. [AK137789]	-0.37	0.040	0.415
chr15:58928225-58939975_R	chr15:58928225-58939975_R	lincRNA:chr15:58928225-58939975 reverse strand	-0.37	0.041	0.418
Fam36a	NM_025511	ref Mus musculus family with sequence similarity 36, member A (Fam36a), mRNA [NM_025511]	-0.37	0.008	0.186
chr11:58659807-58676282_R	chr11:58659807-58676282_R	lincRNA:chr11:58659807-58676282 reverse strand	-0.37	0.030	0.362
chr3:86827945-86886695_F	chr3:86827945-86886695_F	lincRNA:chr3:86827945-86886695 forward strand	-0.37	0.030	0.362
ENSMUST00000093139	ENSMUST00000093139	ens splicing factor 3b, subunit 3 Gene [Source:MGI Symbol;Acc:MGI:1289341] [ENSMUST00000093139]	-0.37	0.042	0.424
Slc16a9	NM_025807	ref Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 9 (Slc16a9), mRNA [NM_025807]	-0.37	0.014	0.255
chrX:10222494-102267068_F	chrX:10222494-102267068_F	lincRNA:chrX:10222494-102267068 forward strand	-0.37	0.038	0.402
Gm4217	XR_032480	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC100045725), misc RNA [XR_032480]	-0.37	0.000	0.043
Gpr155	NM_001080707	ref Mus musculus G protein-coupled receptor 155 (Gpr155), transcript variant 2, mRNA [NM_001080707]	-0.37	0.015	0.260
Nudt6	NM_153561	ref Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 6 (Nudt6), mRNA [NM_153561]	-0.37	0.031	0.370
Rassf9	NM_146240	ref Mus musculus Ras association (RalGDS/AF-6) domain family (N-terminal) member 9 (Rassf9), mRNA [NM_146240]	-0.37	0.033	0.379
chr8:123901815-123902167_R	chr8:123901815-123902167_R	lincRNA:chr8:123901815-123902167 reverse strand	-0.37	0.042	0.425
Rtn2	NM_013648	ref Mus musculus reticulon 2 (Z-band associated protein) (Rtn2), transcript variant B, mRNA [NM_013648]	-0.37	0.012	0.231
Kcnh8	NM_001031811	ref Mus musculus potassium voltage-gated channel, subfamily H (eag-related), member 8 (Kcnh8), mRNA [NM_001031811]	-0.37	0.021	0.307
Gm6842	XR_033094	ref PREDICTED: Mus musculus predicted gene, EG628117 (EG628117), misc RNA [XR_033094]	-0.37	0.033	0.376
chr15:61919018-61935580_R	chr15:61919018-61935580_R	lincRNA:chr15:61919018-61935580 reverse strand	-0.37	0.030	0.365
Gm2199	XR_030982	ref PREDICTED: Mus musculus similar to mitochondrial carrier homolog 2 (LOC100039506), misc RNA [XR_030982]	-0.37	0.026	0.342
St3gal4	NM_009178	ref Mus musculus ST3 beta-galactoside alpha-2,3-sialyltransferase 4 (St3gal4), mRNA [NM_009178]	-0.37	0.040	0.415
chr7:16633756-16634410_F	chr7:16633756-16634410_F	lincRNA:chr7:16633756-16634410 forward strand	-0.37	0.005	0.148
LOC100044910	XM_001473316	ref PREDICTED: Mus musculus hypothetical protein LOC100044910 (LOC100044910), mRNA [XM_001473316]	-0.37	0.025	0.332
Gm2230	XM_001479590	ref PREDICTED: Mus musculus hypothetical protein LOC100048128 (LOC100048128), mRNA [XM_001479590]	-0.37	0.018	0.286

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Smtn	NM_001159284	ref Mus musculus smoothelin (Smtn), transcript variant 1, mRNA [NM_001159284]	-0.37	0.019	0.288
H2-Oa	NM_008206	ref Mus musculus histocompatibility 2, O region alpha locus (H2-Oa), mRNA [NM_008206]	-0.37	0.010	0.214
Gm8590	XR_033658	ref PREDICTED: Mus musculus similar to SET domain-containing protein (LOC667353), misc RNA [XR_033658]	-0.37	0.016	0.274
Mrs2	NM_001013389	ref Mus musculus MRS2 magnesium homeostasis factor homolog (S. cerevisiae) (Mrs2), mRNA [NM_001013389]	-0.37	0.036	0.393
ENSMUST00000065533	ENSMUST00000065533	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3USW9] [ENSMUST00000065533]	-0.37	0.003	0.123
Slc2a12	ENSMUST00000042261	ens solute carrier family 2 (facilitated glucose transporter), member 12 Gene [Source:MGI Symbol;Acc:MGI:3052471] [ENSMUST00000042261]	-0.37	0.004	0.129
Vangl2	ENSMUST00000111263	ens vang-like 2 (van gogh, Drosophila) Gene [Source:MGI (curated);Acc:MGI:2135272] [ENSMUST00000111263]	-0.37	0.007	0.182
Zfp384	NM_175557	ref Mus musculus zinc finger protein 384 (Zfp384), mRNA [NM_175557]	-0.38	0.034	0.385
ENSMUST00000111835	ENSMUST00000111835	ens serine/threonine/tyrosine interaction protein Gene [Source:MGI Symbol;Acc:MGI:1891150] [ENSMUST00000111835]	-0.38	0.033	0.376
Klhdc1	NM_178253	ref Mus musculus kelch domain containing 1 (Klhdc1), mRNA [NM_178253]	-0.38	0.005	0.147
Smardc1	NM_031842	ref Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 (Smardc1), mRNA [NM_031842]	-0.38	0.031	0.367
Adam17	NM_009615	ref Mus musculus a disintegrin and metallopeptidase domain 17 (Adam17), mRNA [NM_009615]	-0.38	0.023	0.317
2010204K13Rik	NR_027924	ref Mus musculus RIKEN cDNA 2010204K13 gene (2010204K13Rik), transcript variant 1, non-coding RNA [NR_027924]	-0.38	0.029	0.358
Pdhx	NM_175094	ref Mus musculus pyruvate dehydrogenase complex, component X (Pdhx), nuclear gene encoding mitochondrial protein, mRNA [NM_175094]	-0.38	0.023	0.318
Opa3	ENSMUST00000063976	ens optic atrophy 3 (human) Gene [Source:MGI Symbol;Acc:MGI:2686271] [ENSMUST00000063976]	-0.38	0.002	0.102
chr1:63264155-63345773_F	chr1:63264155-63345773_F	lincRNA:chr1:63264155-63345773 forward strand	-0.38	0.043	0.428
Rxrg	NM_009107	ref Mus musculus retinoid X receptor gamma (Rxrg), transcript variant 1, mRNA [NM_009107]	-0.38	0.037	0.399
Metap11	NM_025633	ref Mus musculus methionine aminopeptidase-like 1 (Metap11), mRNA [NM_025633]	-0.38	0.023	0.321
Mrpl42	NM_026065	ref Mus musculus mitochondrial ribosomal protein L42 (Mrpl42), nuclear gene encoding mitochondrial protein, mRNA [NM_026065]	-0.38	0.003	0.108
chr12:9117250-9128800_F	chr12:9117250-9128800_F	lincRNA:chr12:9117250-9128800 forward strand	-0.38	0.005	0.154
Olfir763	NM_146862	ref Mus musculus olfactory receptor 763 (Olfir763), mRNA [NM_146862]	-0.38	0.031	0.370
chr10:18047851-18049641_R	chr10:18047851-18049641_R	lincRNA:chr10:18047851-18049641 reverse strand	-0.38	0.013	0.245
Zfyve28	NM_001015039	ref Mus musculus zinc finger, FYVE domain containing 28 (Zfyve28), mRNA [NM_001015039]	-0.38	0.025	0.331
chr18:25622407-25635118_R	chr18:25622407-25635118_R	lincRNA:chr18:25622407-25635118 reverse strand	-0.38	0.042	0.425
chr12:88172043-88172731_R	chr12:88172043-88172731_R	lincRNA:chr12:88172043-88172731 reverse strand	-0.38	0.018	0.285
Nqo2	NM_020282	ref Mus musculus NAD(P)H dehydrogenase, quinone 2 (Nqo2), transcript variant 1, mRNA [NM_020282]	-0.38	0.013	0.242
Fam82a2	NM_001033136	ref Mus musculus family with sequence similarity 82, member A2 (Fam82a2), mRNA [NM_001033136]	-0.38	0.024	0.327

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Atl2	NM_019717	ref Mus musculus atlastin GTPase 2 (Atl2), transcript variant 1, mRNA [NM_019717]	-0.38	0.002	0.085
Crtac1	NM_145123	ref Mus musculus cartilage acidic protein 1 (Crtac1), mRNA [NM_145123]	-0.38	0.029	0.357
ENSMUST00000089252	ENSMUST00000089252	ens RIKEN cDNA I730030J21 gene Gene [Source:MGI Symbol;Acc:MGI:3588279] [ENSMUST00000089252]	-0.38	0.001	0.076
Dock4	NM_172803	ref Mus musculus dedicator of cytokinesis 4 (Dock4), mRNA [NM_172803]	-0.38	0.013	0.240
chr7:4827340-4863315_F	chr7:4827340-4863315_F	lincRNA:chr7:4827340-4863315 forward strand	-0.38	0.045	0.440
Slc25a26	NM_026255	ref Mus musculus solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 26 (Slc25a26), nuclear gene encoding mitochondrial protein, mRNA [NM_026255]	-0.38	0.003	0.112
1700040L02Rik	NM_028491	ref Mus musculus RIKEN cDNA 1700040L02 gene (1700040L02Rik), mRNA [NM_028491]	-0.38	0.007	0.174
4932438A13Rik	NM_172679	ref Mus musculus RIKEN cDNA 4932438A13 gene (4932438A13Rik), mRNA [NM_172679]	-0.38	0.016	0.273
Traf3ip3	NM_153137	ref Mus musculus TRAF3 interacting protein 3 (Traf3ip3), mRNA [NM_153137]	-0.38	0.001	0.071
Socs1	NM_009896	ref Mus musculus suppressor of cytokine signaling 1 (Socs1), mRNA [NM_009896]	-0.38	0.011	0.228
chr14:105987405-106063477_F	chr14:105987405-106063477_F	lincRNA:chr14:105987405-106063477 forward strand	-0.38	0.042	0.422
XM_975100	XM_975100	ref PREDICTED: Mus musculus hypothetical LOC666709 (LOC666709), mRNA [XM_975100]	-0.38	0.014	0.252
Sfxn4	NM_053198	ref Mus musculus sideroflexin 4 (Sfxn4), mRNA [NM_053198]	-0.38	0.002	0.085
chr16:39984031-40081556_R	chr16:39984031-40081556_R	lincRNA:chr16:39984031-40081556 reverse strand	-0.38	0.044	0.433
chr2:77146893-77155643_R	chr2:77146893-77155643_R	lincRNA:chr2:77146893-77155643 reverse strand	-0.38	0.042	0.426
chr6:126766225-126771309_F	chr6:126766225-126771309_F	lincRNA:chr6:126766225-126771309 forward strand	-0.38	0.006	0.161
ENSMUST00000074862	ENSMUST00000074862	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q8C9R0] [ENSMUST00000074862]	-0.38	0.019	0.290
Slc35e1	NM_177766	ref Mus musculus solute carrier family 35, member E1 (Slc35e1), mRNA [NM_177766]	-0.38	0.007	0.176
Lef1	NM_010703	ref Mus musculus lymphoid enhancer binding factor 1 (Lef1), mRNA [NM_010703]	-0.38	0.048	0.450
Nrxn1	NM_020252	ref Mus musculus neurexin I (Nrxn1), transcript variant 1, mRNA [NM_020252]	-0.38	0.024	0.327
chr14:105497388-105511063_R	chr14:105497388-105511063_R	lincRNA:chr14:105497388-105511063 reverse strand	-0.38	0.043	0.429
Slc12a5	NM_020333	ref Mus musculus solute carrier family 12, member 5 (Slc12a5), mRNA [NM_020333]	-0.38	0.001	0.072
Fasn	NM_007988	ref Mus musculus fatty acid synthase (Fasn), mRNA [NM_007988]	-0.38	0.009	0.199
A330044P14Rik	AK039452	gb Mus musculus adult male spinal cord cDNA, RIKEN full-length enriched library, clone:A330044P14 product:unclassifiable, full insert sequence. [AK039452]	-0.38	0.022	0.315
Gm3105	XM_001475665	ref PREDICTED: Mus musculus hypothetical protein LOC100041029 (LOC100041029), mRNA [XM_001475665]	-0.38	0.034	0.385
Rhox2c	NM_001099318	ref Mus musculus reproductive homeobox 2C (Rhox2c), mRNA [NM_001099318]	-0.38	0.027	0.343
Sema6d	NM_199241	ref Mus musculus sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D (Sema6d), transcript variant 4, mRNA [NM_199241]	-0.38	0.009	0.202
chr11:50994911-51050704_R	chr11:50994911-51050704_R	lincRNA:chr11:50994911-51050704 reverse strand	-0.38	0.017	0.280
Gm7632	XM_976882	ref PREDICTED: Mus musculus predicted gene, EG665429 (EG665429), mRNA [XM_976882]	-0.38	0.036	0.394

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Fbxw7	NM_080428	ref Mus musculus F-box and WD-40 domain protein 7 (Fbxw7), transcript variant 3, mRNA [NM_080428]	-0.38	0.015	0.265
chr13:26649529-26838004_R	chr13:26649529-26838004_R	lincRNA:chr13:26649529-26838004 reverse strand	-0.39	0.041	0.419
Tsc22d4	NM_023910	ref Mus musculus TSC22 domain family, member 4 (Tsc22d4), mRNA [NM_023910]	-0.39	0.001	0.070
Wdr7	NM_001014981	ref Mus musculus WD repeat domain 7 (Wdr7), mRNA [NM_001014981]	-0.39	0.047	0.446
Ncapd2	NM_146171	ref Mus musculus non-SMC condensin I complex, subunit D2 (Ncapd2), mRNA [NM_146171]	-0.39	0.015	0.260
Lrrc20	NM_153542	ref Mus musculus leucine rich repeat containing 20 (Lrrc20), mRNA [NM_153542]	-0.39	0.010	0.208
chr6:83391748-83398316_F	chr6:83391748-83398316_F	lincRNA:chr6:83391748-83398316 forward strand	-0.39	0.031	0.370
Setd8	NM_030241	ref Mus musculus SET domain containing (lysine methyltransferase) 8 (Setd8), mRNA [NM_030241]	-0.39	0.003	0.123
chrX:146827709-146913398_R	chrX:146827709-146913398_R	lincRNA:chrX:146827709-146913398 reverse strand	-0.39	0.003	0.123
Gdpd2	NM_023608	ref Mus musculus glycerophosphodiester phosphodiesterase domain containing 2 (Gdpd2), mRNA [NM_023608]	-0.39	0.024	0.326
Pms1	NM_153556	ref Mus musculus postmeiotic segregation increased 1 (S. cerevisiae) (Pms1), mRNA [NM_153556]	-0.39	0.016	0.273
Ube2n	NM_080560	ref Mus musculus ubiquitin-conjugating enzyme E2N (Ube2n), mRNA [NM_080560]	-0.39	0.011	0.219
BC062258	AK144577	gb Mus musculus lung RCB-0558 LLC cDNA, RIKEN full-length enriched library, clone:G730002O11 product:unclassifiable, full insert sequence. [AK144577]	-0.39	0.001	0.060
Brd3	NM_023336	ref Mus musculus bromodomain containing 3 (Brd3), transcript variant 3, mRNA [NM_023336]	-0.39	0.003	0.118
A430088P11Rik	AK040361	gb Mus musculus 0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A430088P11 product:unclassifiable, full insert sequence. [AK040361]	-0.39	0.001	0.046
2010002M09Rik	AK008051	gb Mus musculus adult male small intestine cDNA, RIKEN full-length enriched library, clone:2010002M09 product:unclassifiable, full insert sequence. [AK008051]	-0.39	0.038	0.402
Dcaf12l2	NM_175539	ref Mus musculus DDB1 and CUL4 associated factor 12-like 2 (Dcaf12l2), mRNA [NM_175539]	-0.39	0.015	0.260
Gm5710	XR_033066	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (LOC435752), misc RNA [XR_033066]	-0.39	0.001	0.051
chr6:36790208-36792056_R	chr6:36790208-36792056_R	lincRNA:chr6:36790208-36792056 reverse strand	-0.39	0.021	0.303
Prune2	NM_181348	ref Mus musculus prune homolog 2 (Drosophila) (Prune2), mRNA [NM_181348]	-0.39	0.042	0.425
Mapkapk3	NM_178907	ref Mus musculus mitogen-activated protein kinase-activated protein kinase 3 (Mapkapk3), mRNA [NM_178907]	-0.39	0.001	0.078
Slc28a2	NM_172980	ref Mus musculus solute carrier family 28 (sodium-coupled nucleoside transporter), member 2 (Slc28a2), mRNA [NM_172980]	-0.39	0.042	0.424
chr3:9628206-9631521_F	chr3:9628206-9631521_F	lincRNA:chr3:9628206-9631521 forward strand	-0.39	0.008	0.192
chr15:38630866-38640611_R	chr15:38630866-38640611_R	lincRNA:chr15:38630866-38640611 reverse strand	-0.39	0.015	0.263
chr3:70581406-70614856_F	chr3:70581406-70614856_F	lincRNA:chr3:70581406-70614856 forward strand	-0.39	0.006	0.158
2310030N02Rik	NM_001085493	ref Mus musculus RIKEN cDNA 2310030N02 gene (2310030N02Rik), mRNA [NM_001085493]	-0.39	0.001	0.077
ENSMUST00000084243	ENSMUST00000084243	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q6R5G1] [ENSMUST00000084243]	-0.39	0.025	0.332

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr11:20369534-20371458_F	chr11:20369534-20371458_F	lincRNA:chr11:20369534-20371458 forward strand	-0.39	0.034	0.384
Bai3	NM_175642	ref Mus musculus brain-specific angiogenesis inhibitor 3 (Bai3), mRNA [NM_175642]	-0.39	0.048	0.449
Arl5c	NM_207231	ref Mus musculus ADP-ribosylation factor-like 5C (Arl5c), mRNA [NM_207231]	-0.39	0.049	0.452
chr14:62267786-62285335_F	chr14:62267786-62285335_F	lincRNA:chr14:62267786-62285335 forward strand	-0.39	0.003	0.115
Ccdc85c	NM_001159910	ref Mus musculus coiled-coil domain containing 85C (Ccdc85c), mRNA [NM_001159910]	-0.39	0.003	0.106
ENSMUST00000090640	ENSMUST00000090640	ens RIKEN cDNA 1700110I01 gene Gene [Source:MGI Symbol;Acc:MGI:1920799] [ENSMUST00000100902]	-0.40	0.001	0.057
Stk10	NM_009288	ref Mus musculus serine/threonine kinase 10 (Stk10), mRNA [NM_009288]	-0.40	0.011	0.227
Gm3855	XM_001478261	ref PREDICTED: Mus musculus similar to Activated in Blocked Unfolded protein response family member (abu-2) (LOC100042461), mRNA [XM_001478261]	-0.40	0.022	0.314
Ung	NM_001040691	ref Mus musculus uracil DNA glycosylase (Ung), transcript variant 1, mRNA [NM_001040691]	-0.40	0.001	0.050
Fancb	NM_175027	ref Mus musculus Fanconi anemia, complementation group B (Fancb), transcript variant 2, mRNA [NM_175027]	-0.40	0.003	0.117
LOC100039037	XR_032542	ref PREDICTED: Mus musculus similar to EMO2 (LOC665680), misc RNA [XR_032542]	-0.40	0.014	0.249
chr4:118723941-118757032_R	chr4:118723941-118757032_R	lincRNA:chr4:118723941-118757032 reverse strand	-0.40	0.024	0.326
chr9:30529709-30589042_R	chr9:30529709-30589042_R	lincRNA:chr9:30529709-30589042 reverse strand	-0.40	0.011	0.223
Neur1B	NM_001081656	ref Mus musculus neuralized homolog 1B (Drosophila) (Neur1B), mRNA [NM_001081656]	-0.40	0.000	0.035
Hmgn2	NM_016957	ref Mus musculus high mobility group nucleosomal binding domain 2 (Hmgn2), mRNA [NM_016957]	-0.40	0.018	0.284
Capn3	NM_007601	ref Mus musculus calpain 3 (Capn3), transcript variant a, mRNA [NM_007601]	-0.40	0.025	0.330
Nebi	NM_028757	ref Mus musculus nebulin (Nebi), mRNA [NM_028757]	-0.40	0.046	0.443
Gm5588	XM_001480058	ref PREDICTED: Mus musculus similar to novel androgen binding protein (Abp) family member (LOC434161), mRNA [XM_001480058]	-0.40	0.030	0.364
Mast1	NM_019945	ref Mus musculus microtubule associated serine/threonine kinase 1 (Mast1), mRNA [NM_019945]	-0.40	0.017	0.274
Pdxk	NM_172134	ref Mus musculus pyridoxal (pyridoxine, vitamin B6) kinase (Pdxk), mRNA [NM_172134]	-0.40	0.005	0.145
chr16:46384974-46391331_F	chr16:46384974-46391331_F	lincRNA:chr16:46384974-46391331 forward strand	-0.40	0.034	0.383
chr6:100162756-100178531_F	chr6:100162756-100178531_F	lincRNA:chr6:100162756-100178531 forward strand	-0.40	0.018	0.282
Taar9	NM_001010831	ref Mus musculus trace amine-associated receptor 9 (Taar9), mRNA [NM_001010831]	-0.40	0.037	0.401
Slc22a23	NM_001033167	ref Mus musculus solute carrier family 22, member 23 (Slc22a23), mRNA [NM_001033167]	-0.40	0.011	0.218
Gm2212	XM_001472797	ref PREDICTED: Mus musculus hypothetical protein LOC100039404 (LOC100039404), mRNA [XM_001472797]	-0.40	0.002	0.091
Gxylt2	NM_198612	ref Mus musculus glucoside xylosyltransferase 2 (Gxylt2), mRNA [NM_198612]	-0.40	0.003	0.105
Tubb1	NM_001080971	ref Mus musculus tubulin, beta 1 (Tubb1), mRNA [NM_001080971]	-0.40	0.043	0.428
8430437L04Rik	AK018472	gb Mus musculus 16 days embryo lung cDNA, RIKEN full-length enriched library, clone:8430437L04 product:unclassifiable, full insert sequence. [AK018472]	-0.40	0.050	0.456
Hba-a1	NM_008218	ref Mus musculus hemoglobin alpha, adult chain 1 (Hba-a1), mRNA [NM_008218]	-0.40	0.014	0.251

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Fabp12	NM_029310	ref Mus musculus fatty acid binding protein 12 (Fabp12), mRNA [NM_029310]	-0.40	0.019	0.293
chr10:93774693-93893616_F	chr10:93774693-93893616_F	lincRNA:chr10:93774693-93893616 forward strand	-0.40	0.035	0.387
Oosp1	NM_133353	ref Mus musculus oocyte secreted protein 1 (Oosp1), mRNA [NM_133353]	-0.40	0.049	0.455
St8sia4	NM_009183	ref Mus musculus ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4 (St8sia4), transcript variant 1, mRNA [NM_009183]	-0.40	0.019	0.291
chr11:102878974-102888924_F	chr11:102878974-102888924_F	lincRNA:chr11:102878974-102888924 forward strand	-0.40	0.048	0.452
chr8:18592437-18593034_R	chr8:18592437-18593034_R	lincRNA:chr8:18592437-18593034 reverse strand	-0.41	0.033	0.380
Rab9b	NM_176971	ref Mus musculus RAB9B, member RAS oncogene family (Rab9b), mRNA [NM_176971]	-0.41	0.004	0.142
Stard4	NM_133774	ref Mus musculus StAR-related lipid transfer (START) domain containing 4 (Stard4), mRNA [NM_133774]	-0.41	0.026	0.338
chr2:174917150-174935618_R	chr2:174917150-174935618_R	lincRNA:chr2:174917150-174935618 reverse strand	-0.41	0.024	0.325
Gm5678	XM_487442	ref PREDICTED: Mus musculus predicted gene, EG435489 (EG435489), mRNA [XM_487442]	-0.41	0.009	0.199
chr8:119732348-119749198_R	chr8:119732348-119749198_R	lincRNA:chr8:119732348-119749198 reverse strand	-0.41	0.032	0.372
Btla	NM_001037719	ref Mus musculus B and T lymphocyte associated (Btla), transcript variant 1, mRNA [NM_001037719]	-0.41	0.042	0.423
chr6:134846715-134847933_R	chr6:134846715-134847933_R	lincRNA:chr6:134846715-134847933 reverse strand	-0.41	0.002	0.093
Arhgap26	NM_175164	ref Mus musculus Rho GTPase activating protein 26 (Arhgap26), mRNA [NM_175164]	-0.41	0.001	0.051
Cars2	NM_024248	ref Mus musculus cysteinyl-tRNA synthetase 2 (mitochondrial)(putative) (Cars2), nuclear gene encoding mitochondrial protein, mRNA [NM_024248]	-0.41	0.002	0.094
Hecw1	NM_001081348	ref Mus musculus HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1 (Hecw1), mRNA [NM_001081348]	-0.41	0.001	0.059
Gm15478	XM_001478433	ref PREDICTED: Mus musculus hypothetical protein LOC100047384 (LOC100047384), mRNA [XM_001478433]	-0.41	0.029	0.354
ENSMUST00000106800	ENSMUST00000106800	ens endoplasmic reticulum (ER) to nucleus signalling 1 Gene [Source:MGI (curated);Acc:MGI:1930134] [ENSMUST00000106800]	-0.41	0.044	0.435
Upk2	NM_009476	ref Mus musculus uroplakin 2 (Upk2), mRNA [NM_009476]	-0.41	0.046	0.444
Edil3	NM_010103	ref Mus musculus EGF-like repeats and discoidin I-like domains 3 (Edil3), transcript variant 2, mRNA [NM_010103]	-0.41	0.022	0.314
Ezr	NM_009510	ref Mus musculus ezrin (Ezr), mRNA [NM_009510]	-0.41	0.019	0.288
Acsl6	NM_001033599	ref Mus musculus acyl-CoA synthetase long-chain family member 6 (Acsl6), transcript variant 4, mRNA [NM_001033599]	-0.41	0.033	0.380
Krt6b	NM_010669	ref Mus musculus keratin 6B (Krt6b), mRNA [NM_010669]	-0.41	0.022	0.312
Stmn1	NM_019641	ref Mus musculus stathmin 1 (Stmn1), mRNA [NM_019641]	-0.41	0.019	0.288
chr10:66559716-66647841_F	chr10:66559716-66647841_F	lincRNA:chr10:66559716-66647841 forward strand	-0.41	0.018	0.282
chr13:74568375-74601000_F	chr13:74568375-74601000_F	lincRNA:chr13:74568375-74601000 forward strand	-0.41	0.019	0.294
ENSMUST00000103749	ENSMUST00000103749	ens immunoglobulin lambda chain, variable 1 Gene [Source:MGI Symbol;Acc:MGI:96530] [ENSMUST00000103749]	-0.41	0.044	0.432
Hunk	NM_015755	ref Mus musculus hormonally upregulated Neu-associated kinase (Hunk), mRNA [NM_015755]	-0.41	0.028	0.353

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr11:51003332-51033057_R	chr11:51003332-51033057_R	lincRNA:chr11:51003332-51033057 reverse strand	-0.41	0.036	0.393
chr2:78767440-78768949_F	chr2:78767440-78768949_F	lincRNA:chr2:78767440-78768949 forward strand	-0.41	0.013	0.240
Btn1a1	NM_013483	ref Mus musculus butyrophilin, subfamily 1, member A1 (Btn1a1), mRNA [NM_013483]	-0.41	0.000	0.045
chrX:148720661-148763177_F	chrX:148720661-148763177_F	lincRNA:chrX:148720661-148763177 forward strand	-0.41	0.048	0.450
Slc16a10	NM_028247	ref Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 10 (Slc16a10), transcript variant 2, mRNA [NM_028247]	-0.41	0.036	0.394
Hsbp1l1	NM_001136181	ref Mus musculus heat shock factor binding protein 1-like 1 (Hsbp1l1), mRNA [NM_001136181]	-0.41	0.021	0.304
C130026I21Rik	NM_175219	ref Mus musculus RIKEN cDNA C130026I21 gene (C130026I21Rik), transcript variant 1, mRNA [NM_175219]	-0.41	0.050	0.457
Fhdc1	NM_001033301	ref Mus musculus FH2 domain containing 1 (Fhdc1), mRNA [NM_001033301]	-0.41	0.031	0.368
ENSMUST00000062809	ENSMUST00000062809	gb Mus musculus 12 days embryo head cDNA, RIKEN full-length enriched library, clone:3010024O21 product:hypothetical protein, full insert sequence. [AK013898]	-0.41	0.010	0.208
Alas2	NM_009653	ref Mus musculus aminolevulinic acid synthase 2, erythroid (Alas2), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_009653]	-0.41	0.033	0.376
Slc25a11	NM_024211	ref Mus musculus solute carrier family 25 (mitochondrial carrier oxoglutarate carrier), member 11 (Slc25a11), nuclear gene encoding mitochondrial protein, mRNA [NM_024211]	-0.41	0.003	0.117
1700112E06Rik	NM_028275	ref Mus musculus RIKEN cDNA 1700112E06 gene (1700112E06Rik), mRNA [NM_028275]	-0.41	0.001	0.078
Epha5	NM_007937	ref Mus musculus Eph receptor A5 (Epha5), mRNA [NM_007937]	-0.41	0.001	0.067
chr3:84609788-84618062_R	chr3:84609788-84618062_R	lincRNA:chr3:84609788-84618062 reverse strand	-0.41	0.044	0.436
Epb4.2	NM_013513	ref Mus musculus erythrocyte protein band 4.2 (Epb4.2), mRNA [NM_013513]	-0.41	0.028	0.352
Kcnj3	NM_008426	ref Mus musculus potassium inwardly-rectifying channel, subfamily J, member 3 (Kcnj3), mRNA [NM_008426]	-0.41	0.004	0.138
Phactr2	NM_001033257	ref Mus musculus phosphatase and actin regulator 2 (Phactr2), mRNA [NM_001033257]	-0.42	0.000	0.030
Memo1	NM_133771	ref Mus musculus mediator of cell motility 1 (Memo1), mRNA [NM_133771]	-0.42	0.004	0.128
Gm5066	XR_034763	ref PREDICTED: Mus musculus predicted gene, EG272633 (EG272633), misc RNA [XR_034763]	-0.42	0.037	0.396
Kcnj5	NM_010605	ref Mus musculus potassium inwardly-rectifying channel, subfamily J, member 5 (Kcnj5), mRNA [NM_010605]	-0.42	0.001	0.080
chr17:32213027-32228368_R	chr17:32213027-32228368_R	lincRNA:chr17:32213027-32228368 reverse strand	-0.42	0.013	0.243
C87882	BG067895	gb H3059D09-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3059D09 3', mRNA sequence [BG067895]	-0.42	0.035	0.388
Proca1	ENSMUST00000108317	ens protein interacting with cyclin A1 Gene [Source:MGI (curated);Acc:MGI:1918274] [ENSMUST00000108317]	-0.42	0.045	0.440
Igsf9	NM_033608	ref Mus musculus immunoglobulin superfamily, member 9 (Igsf9), transcript variant 1, mRNA [NM_033608]	-0.42	0.001	0.058
Ccng1	NM_009831	ref Mus musculus cyclin G1 (Ccng1), mRNA [NM_009831]	-0.42	0.001	0.053
Abhd8	NM_022419	ref Mus musculus abhydrolase domain containing 8 (Abhd8), mRNA [NM_022419]	-0.42	0.001	0.063

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Gm4118	XR_034065	ref PREDICTED: Mus musculus similar to proteasome (prosome, macropain) subunit, alpha type 2 (LOC100042941), misc RNA [XR_034065]	-0.42	0.040	0.413
5830487J09Rik	AK051760	gb Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched library, clone:D130074J01 product:unclassifiable, full insert sequence. [AK051760]	-0.42	0.012	0.230
Depdc7	NM_144804	ref Mus musculus DEP domain containing 7 (Depdc7), mRNA [NM_144804]	-0.42	0.042	0.426
Txn14a	NM_025299	ref Mus musculus thioredoxin-like 4A (Txn14a), transcript variant 1, mRNA [NM_025299]	-0.42	0.016	0.272
Gm2091	XM_001472298	ref PREDICTED: Mus musculus similar to chemokine (C-C motif) ligand 27 (LOC100039193), mRNA [XM_001472298]	-0.42	0.001	0.063
LOC100047831	XM_001478956	ref PREDICTED: Mus musculus similar to cyclic nucleotide gated channel beta 1 (LOC100047831), mRNA [XM_001478956]	-0.42	0.015	0.260
Nr2f1	NM_010151	ref Mus musculus nuclear receptor subfamily 2, group F, member 1 (Nr2f1), mRNA [NM_010151]	-0.42	0.015	0.266
chr6:86524425-86524935_F	chr6:86524425-86524935_F	lincRNA:chr6:86524425-86524935 forward strand	-0.42	0.033	0.378
ENSMUST00000097953	ENSMUST00000097953	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q3U0A7] [ENSMUST00000097953]	-0.42	0.000	0.042
Nhlrc1	NM_175340	ref Mus musculus NHL repeat containing 1 (Nhlrc1), mRNA [NM_175340]	-0.42	0.022	0.316
chr9:67414463-67483185_R	chr9:67414463-67483185_R	lincRNA:chr9:67414463-67483185 reverse strand	-0.42	0.029	0.357
Oip5	NM_001042653	ref Mus musculus Opa interacting protein 5 (Oip5), mRNA [NM_001042653]	-0.42	0.033	0.376
4933427D06Rik	NM_175017	ref Mus musculus RIKEN cDNA 4933427D06 gene (4933427D06Rik), mRNA [NM_175017]	-0.42	0.002	0.092
chr18:32389816-32394927_R	chr18:32389816-32394927_R	lincRNA:chr18:32389816-32394927 reverse strand	-0.43	0.045	0.439
Cplx3	NM_146223	ref Mus musculus complexin 3 (Cplx3), mRNA [NM_146223]	-0.43	0.032	0.375
Faim3	NM_026976	ref Mus musculus Fas apoptotic inhibitory molecule 3 (Faim3), mRNA [NM_026976]	-0.43	0.034	0.381
Ankrd40	NM_146024	ref Mus musculus ankyrin repeat domain 40 (Ankrd40), transcript variant 2, mRNA [NM_146024]	-0.43	0.036	0.395
A_55_P2106815	A_55_P2106815	Unknown	-0.43	0.043	0.428
Atpaf1	NM_181040	ref Mus musculus ATP synthase mitochondrial F1 complex assembly factor 1 (Atpaf1), nuclear gene encoding mitochondrial protein, mRNA [NM_181040]	-0.43	0.023	0.319
Gm13140	XR_032815	ref PREDICTED: Mus musculus similar to DNA-dependent ATPase SNF2H (LOC626288), misc RNA [XR_032815]	-0.43	0.016	0.270
Spata2	NM_170756	ref Mus musculus spermatogenesis associated 2 (Spata2), mRNA [NM_170756]	-0.43	0.004	0.127
Rpl3l	NM_025425	ref Mus musculus ribosomal protein L3-like (Rpl3l), transcript variant 2, mRNA [NM_025425]	-0.43	0.002	0.099
Pard3	NM_001013581	ref Mus musculus par-3 (partitioning defective 3) homolog (C. elegans) (Pard3), transcript variant 1, mRNA [NM_001013581]	-0.43	0.019	0.287
Zfp791	NM_001037745	ref Mus musculus zinc finger protein 791 (Zfp791), mRNA [NM_001037745]	-0.43	0.001	0.069
Kcnh6	NM_001037712	ref Mus musculus potassium voltage-gated channel, subfamily H (eag-related), member 6 (Kcnh6), mRNA [NM_001037712]	-0.43	0.008	0.194
Atp5f1	NM_009725	ref Mus musculus ATP synthase, H+ transporting, mitochondrial F0 complex, subunit B1 (Atp5f1), nuclear gene encoding mitochondrial protein, mRNA [NM_009725]	-0.43	0.010	0.208

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
chr1:182686731-182709331_F	chr1:182686731-182709331_F	lincRNA:chr1:182686731-182709331 forward strand	-0.43	0.007	0.182
chr4:146890596-146891297_F	chr4:146890596-146891297_F	lincRNA:chr4:146890596-146891297 forward strand	-0.43	0.048	0.452
Cenpa	NM_007681	ref Mus musculus centromere protein A (Cenpa), mRNA [NM_007681]	-0.43	0.002	0.084
chr6:91928958-91936887_R	chr6:91928958-91936887_R	lincRNA:chr6:91928958-91936887 reverse strand	-0.43	0.005	0.153
chrX:47893703-47996700_R	chrX:47893703-47996700_R	lincRNA:chrX:47893703-47996700 reverse strand	-0.43	0.047	0.446
Cox15	NM_144874	ref Mus musculus COX15 homolog, cytochrome c oxidase assembly protein (yeast) (Cox15), nuclear gene encoding mitochondrial protein, mRNA [NM_144874]	-0.43	0.029	0.356
2810417H13Rik	NM_026515	ref Mus musculus RIKEN cDNA 2810417H13 gene (2810417H13Rik), mRNA [NM_026515]	-0.43	0.029	0.356
ENSMUST00000105050	ENSMUST00000105050	ens Putative keratin-associated protein 10-like ENSP00000375147 homolog. [Source:UniProtKB/Swiss-Prot;Acc:A2A5X5] [ENSMUST00000105050]	-0.43	0.013	0.242
Gfra4	NM_020014	ref Mus musculus glial cell line derived neurotrophic factor family receptor alpha 4 (Gfra4), transcript variant 2, mRNA [NM_020014]	-0.43	0.012	0.238
Gm4942	XM_139402	ref PREDICTED: Mus musculus predicted gene, EG239502 (EG239502), mRNA [XM_139402]	-0.43	0.008	0.184
4930552N02Rik	AK016098	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930552N02 product:unclassifiable, full insert sequence. [AK016098]	-0.43	0.004	0.138
Dhfr	NM_010049	ref Mus musculus dihydrofolate reductase (Dhfr), mRNA [NM_010049]	-0.43	0.001	0.065
chrX:90997595-91009570_F	chrX:90997595-91009570_F	lincRNA:chrX:90997595-91009570 forward strand	-0.43	0.009	0.199
Fam160b2	NM_194345	ref Mus musculus family with sequence similarity 160, member B2 (Fam160b2), mRNA [NM_194345]	-0.43	0.001	0.062
Gm5347	NM_001079931	ref Mus musculus predicted gene 5347 (Gm5347), mRNA [NM_001079931]	-0.43	0.028	0.352
Gm11375	XM_001478246	ref PREDICTED: Mus musculus hypothetical protein LOC100042491 (LOC100042491), mRNA [XM_001478246]	-0.43	0.025	0.330
Dennd2c	NM_177857	ref Mus musculus DENN/MADD domain containing 2C (Dennd2c), mRNA [NM_177857]	-0.43	0.039	0.410
Sh3rf2	NM_172966	ref Mus musculus SH3 domain containing ring finger 2 (Sh3rf2), transcript variant 2, mRNA [NM_172966]	-0.43	0.006	0.157
Ssx2ip	NM_138744	ref Mus musculus synovial sarcoma, X breakpoint 2 interacting protein (Ssx2ip), mRNA [NM_138744]	-0.43	0.036	0.395
Ppapdc3	NM_145521	ref Mus musculus phosphatidic acid phosphatase type 2 domain containing 3 (Ppapdc3), mRNA [NM_145521]	-0.43	0.011	0.222
Pilra	NM_153510	ref Mus musculus paired immunoglobulin-like type 2 receptor alpha (Pilra), mRNA [NM_153510]	-0.43	0.024	0.329
ENSMUST00000107381	ENSMUST00000107381	ens tubulin tyrosine ligase-like family, member 13 Gene [Source:MGI (curated);Acc:MGI:1920845] [ENSMUST00000107381]	-0.43	0.019	0.294
Dpysl5	NM_023047	ref Mus musculus dihydropyrimidinase-like 5 (Dpysl5), mRNA [NM_023047]	-0.43	0.001	0.074
chr3:35236023-35241498_R	chr3:35236023-35241498_R	lincRNA:chr3:35236023-35241498 reverse strand	-0.44	0.047	0.447
Arfrp1	NM_029702	ref Mus musculus ADP-ribosylation factor related protein 1 (Arfrp1), transcript variant 2, mRNA [NM_029702]	-0.44	0.011	0.227
Lix1	NM_025681	ref Mus musculus limb expression 1 homolog (chicken) (Lix1), mRNA [NM_025681]	-0.44	0.026	0.340
Sept3	NM_011889	ref Mus musculus septin 3 (Sept3), mRNA [NM_011889]	-0.44	0.000	0.043
Slc1a4	NM_018861	ref Mus musculus solute carrier family 1 (glutamate/neutral amino acid transporter), member 4 (Slc1a4), mRNA [NM_018861]	-0.44	0.002	0.104
4933425O20Rik	NM_025753	ref Mus musculus RIKEN cDNA 4933425O20 gene (4933425O20Rik), mRNA [NM_025753]	-0.44	0.001	0.066

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
Olf648	NM_146751	ref Mus musculus olfactory receptor 648 (Olf648), mRNA [NM_146751]	-0.44	0.040	0.415
Traip	NM_011634	ref Mus musculus TRAF-interacting protein (Traip), mRNA [NM_011634]	-0.44	0.046	0.444
Hrh3	NM_133849	ref Mus musculus histamine receptor H3 (Hrh3), mRNA [NM_133849]	-0.44	0.021	0.303
Kbtbd13	NM_028974	ref Mus musculus kelch repeat and BTB (POZ) domain containing 13 (Kbtbd13), mRNA [NM_028974]	-0.44	0.024	0.327
Gm11223	XM_001474074	ref PREDICTED: Mus musculus similar to Pr22, transcript variant 1 (LOC100039888), mRNA [XM_001474074]	-0.44	0.013	0.247
Gm14004	XM_001480066	ref PREDICTED: Mus musculus hypothetical protein LOC100043375 (LOC100043375), mRNA [XM_001480066]	-0.44	0.048	0.452
Afmid	NM_027827	ref Mus musculus arylformamidase (Afmid), mRNA [NM_027827]	-0.44	0.002	0.080
Hfe2	NM_027126	ref Mus musculus hemochromatosis type 2 (juvenile) (human homolog) (Hfe2), mRNA [NM_027126]	-0.44	0.003	0.117
Hpca	NM_001130419	ref Mus musculus hippocalcin (Hpca), mRNA [NM_001130419]	-0.44	0.003	0.119
1700025C18Rik	NR_033448	ref Mus musculus RIKEN cDNA 1700025C18 gene (1700025C18Rik), non-coding RNA [NR_033448]	-0.44	0.031	0.369
Pak4	NM_027470	ref Mus musculus p21 protein (Cdc42/Rac)-activated kinase 4 (Pak4), mRNA [NM_027470]	-0.44	0.000	0.032
B930025P03Rik	AK047141	gb Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:B930025P03 product:unclassifiable, full insert sequence. [AK047141]	-0.44	0.014	0.250
ENSMUST00000099167	ENSMUST00000099167	ens phosphatidylinositol glycan anchor biosynthesis, class U Gene [Source:MGI (curated);Acc:MGI:3039607] [ENSMUST00000099167]	-0.44	0.032	0.374
chr17:33995525-34028025_F	chr17:33995525-34028025_F	lincRNA:chr17:33995525-34028025 forward strand	-0.44	0.045	0.439
ENSMUST00000111089	ENSMUST00000111089	ens neurofilament, medium polypeptide Gene [Source:MGI (curated);Acc:MGI:97314] [ENSMUST00000111089]	-0.45	0.047	0.447
LOC100046848	XR_032971	ref PREDICTED: Mus musculus hypothetical protein LOC100046848 (LOC100046848), misc RNA [XR_032971]	-0.45	0.020	0.295
chr13:78341864-78375825_R	chr13:78341864-78375825_R	lincRNA:chr13:78341864-78375825 reverse strand	-0.45	0.029	0.358
Slc41a3	NM_027868	ref Mus musculus solute carrier family 41, member 3 (Slc41a3), transcript variant 1, mRNA [NM_027868]	-0.45	0.000	0.039
Zbtb49	NM_029162	ref Mus musculus zinc finger and BTB domain containing 49 (Zbtb49), mRNA [NM_029162]	-0.45	0.012	0.235
chr8:41730287-41746862_F	chr8:41730287-41746862_F	lincRNA:chr8:41730287-41746862 forward strand	-0.45	0.036	0.393
Fam70b	NM_001143671	ref Mus musculus family with sequence similarity 70, member B (Fam70b), transcript variant 1, mRNA [NM_001143671]	-0.45	0.018	0.282
Hist2h3c1	NM_178216	ref Mus musculus histone cluster 2, H3c1 (Hist2h3c1), mRNA [NM_178216]	-0.45	0.002	0.087
Gm3501	XM_001478132	ref PREDICTED: Mus musculus hypothetical protein LOC100041760 (LOC100041760), mRNA [XM_001478132]	-0.45	0.019	0.290
Gm826	NM_001033411	ref Mus musculus predicted gene 826 (Gm826), mRNA [NM_001033411]	-0.45	0.001	0.077
Trav13n-1	ENSMUST00000110630	ens TRAV13-1 Fragment [Source:UniProtKB/TrEMBL;Acc:Q5R1D4] [ENSMUST00000110630]	-0.45	0.032	0.375
Bicap	NM_016916	ref Mus musculus bladder cancer associated protein homolog (human) (Bicap), mRNA [NM_016916]	-0.45	0.000	0.037

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
LOC100047628	ENSMUST00000103404	ref PREDICTED: Mus musculus similar to Chain L, Structural Basis Of Antigen Mimicry In A Clinically Relevant Melanoma Antigen System, transcript variant 1 (LOC100047628), mRNA [XM_001476664]	-0.45	0.024	0.325
chr15:73227424-73257474_R	chr15:73227424-73257474_R	lincRNA:chr15:73227424-73257474 reverse strand	-0.45	0.011	0.221
4921504E06Rik	NM_027600	ref Mus musculus RIKEN cDNA 4921504E06 gene (4921504E06Rik), mRNA [NM_027600]	-0.45	0.047	0.449
Nt5dc2	NM_027289	ref Mus musculus 5'-nucleotidase domain containing 2 (Nt5dc2), mRNA [NM_027289]	-0.45	0.009	0.200
Clasp1	NM_001081276	ref Mus musculus CLIP associating protein 1 (Clasp1), transcript variant 1, mRNA [NM_001081276]	-0.45	0.037	0.400
Mtx1	NM_013604	ref Mus musculus metaxin 1 (Mtx1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_013604]	-0.45	0.035	0.388
A430089I19Rik	NM_177913	ref Mus musculus RIKEN cDNA A430089I19 gene (A430089I19Rik), mRNA [NM_177913]	-0.45	0.025	0.330
Kcnh2	NM_013569	ref Mus musculus potassium voltage-gated channel, subfamily H (eag-related), member 2 (Kcnh2), mRNA [NM_013569]	-0.45	0.003	0.118
chr3:38320928-38341869_F	chr3:38320928-38341869_F	lincRNA:chr3:38320928-38341869 forward strand	-0.45	0.002	0.095
BC023202	AK141429	gb Mus musculus 12 days embryo spinal cord cDNA, RIKEN full-length enriched library, clone:C530014B18 product:unclassifiable, full insert sequence. [AK141429]	-0.45	0.002	0.103
Olf20	NM_146923	ref Mus musculus olfactory receptor 20 (Olf20), mRNA [NM_146923]	-0.46	0.030	0.362
chr12:76744947-76778372_R	chr12:76744947-76778372_R	lincRNA:chr12:76744947-76778372 reverse strand	-0.46	0.007	0.171
LOC676620	XM_991601	ref PREDICTED: Mus musculus similar to ATPase type 13A2 (LOC676620), mRNA [XM_991601]	-0.46	0.012	0.237
4933421D24Rik	AK016858	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933421D24 product:unclassifiable, full insert sequence. [AK016858]	-0.46	0.014	0.253
ENSMUST00000109606	ENSMUST00000109606	ens Rho-related BTB domain containing 3 Gene [Source:MGI (curated);Acc:MGI:1920546] [ENSMUST00000109606]	-0.46	0.001	0.052
chr15:8463685-8494960_R	chr15:8463685-8494960_R	lincRNA:chr15:8463685-8494960 reverse strand	-0.46	0.020	0.299
chr11:55315017-55322092_F	chr11:55315017-55322092_F	lincRNA:chr11:55315017-55322092 forward strand	-0.46	0.016	0.273
Tspan18	NM_183180	ref Mus musculus tetraspanin 18 (Tspan18), mRNA [NM_183180]	-0.46	0.036	0.391
chr2:153166892-153171546_R	chr2:153166892-153171546_R	lincRNA:chr2:153166892-153171546 reverse strand	-0.46	0.002	0.094
chr17:95255725-95272425_R	chr17:95255725-95272425_R	lincRNA:chr17:95255725-95272425 reverse strand	-0.46	0.002	0.099
chr2:156654934-156665632_R	chr2:156654934-156665632_R	lincRNA:chr2:156654934-156665632 reverse strand	-0.46	0.031	0.367
ENSMUST00000050571	ENSMUST00000050571	ens RIKEN cDNA A730020M07 gene Gene [Source:MGI Symbol;Acc:MGI:2442643] [ENSMUST00000050571]	-0.46	0.009	0.201
Eif4e1b	NM_001033269	ref Mus musculus eukaryotic translation initiation factor 4E family member 1B (Eif4e1b), transcript variant 1, mRNA [NM_001033269]	-0.46	0.028	0.349
chr1:134867906-134885481_F	chr1:134867906-134885481_F	lincRNA:chr1:134867906-134885481 forward strand	-0.46	0.035	0.388
Gm12273	XM_001479118	ref PREDICTED: Mus musculus hypothetical protein D630015H07 (D630015H07), mRNA [XM_001479118]	-0.46	0.012	0.233
Tcp10a	NM_009340	ref Mus musculus t-complex protein 10a (Tcp10a), mRNA [NM_009340]	-0.46	0.010	0.208
chr1:71730139-71730720_F	chr1:71730139-71730720_F	lincRNA:chr1:71730139-71730720 forward strand	-0.46	0.027	0.345

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
1110032F04Rik	NM_001167996	ref Mus musculus RIKEN cDNA 1110032F04 gene (1110032F04Rik), mRNA [NM_001167996]	-0.46	0.032	0.374
1700007G11Rik	NM_001024614	ref Mus musculus RIKEN cDNA 1700007G11 gene (1700007G11Rik), mRNA [NM_001024614]	-0.46	0.040	0.415
chr15:68161768-68193518_F	chr15:68161768-68193518_F	lincRNA:chr15:68161768-68193518 forward strand	-0.46	0.036	0.393
Cabc1	NM_023341	ref Mus musculus chaperone, ABC1 activity of bc1 complex like (S. pombe) (Cabc1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_023341]	-0.46	0.007	0.179
Enpep	NM_007934	ref Mus musculus glutamyl aminopeptidase (Enpep), mRNA [NM_007934]	-0.46	0.011	0.219
ENSMUST00000027162	ENSMUST00000027162	ens inducible T-cell co-stimulator Gene [Source:MGI (curated);Acc:MGI:1858745] [ENSMUST00000027162]	-0.46	0.014	0.253
chr2:31001976-31006755_R	chr2:31001976-31006755_R	lincRNA:chr2:31001976-31006755 reverse strand	-0.46	0.023	0.317
Sh3kbp1	NM_001135727	ref Mus musculus SH3-domain kinase binding protein 1 (Sh3kbp1), transcript variant 1, mRNA [NM_001135727]	-0.46	0.009	0.199
Tlr11	NM_205819	ref Mus musculus toll-like receptor 11 (Tlr11), mRNA [NM_205819]	-0.46	0.042	0.426
D430040D24Rik	AK052542	gb Mus musculus 13 days embryo lung cDNA, RIKEN full-length enriched library, clone:D430047J20 product:unclassifiable, full insert sequence. [AK052542]	-0.46	0.047	0.446
chr7:134620707-134626739_F	chr7:134620707-134626739_F	lincRNA:chr7:134620707-134626739 forward strand	-0.46	0.019	0.290
Mkks	NM_021527	ref Mus musculus McKusick-Kaufman syndrome protein (Mkks), transcript variant 1, mRNA [NM_021527]	-0.46	0.023	0.319
chr18:84737058-84737644_F	chr18:84737058-84737644_F	lincRNA:chr18:84737058-84737644 forward strand	-0.46	0.020	0.302
Sox4	NM_009238	ref Mus musculus SRY-box containing gene 4 (Sox4), mRNA [NM_009238]	-0.46	0.024	0.329
chr9:75316023-75344401_F	chr9:75316023-75344401_F	lincRNA:chr9:75316023-75344401 forward strand	-0.46	0.041	0.420
Gm7747	XR_032780	ref PREDICTED: Mus musculus similar to Ac1158 (LOC665681), misc RNA [XR_032780]	-0.46	0.024	0.325
Mov10l1	NM_031260	ref Mus musculus Moloney leukemia virus 10-like 1 (Mov10l1), mRNA [NM_031260]	-0.46	0.000	0.023
Scn8a	NM_001077499	ref Mus musculus sodium channel, voltage-gated, type VIII, alpha (Scn8a), transcript variant 1, mRNA [NM_001077499]	-0.46	0.002	0.091
Ramp1	NM_016894	ref Mus musculus receptor (calcitonin) activity modifying protein 1 (Ramp1), transcript variant 1, mRNA [NM_016894]	-0.47	0.009	0.200
ENSMUST00000099983	ENSMUST00000099983	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q9CRL8] [ENSMUST00000099983]	-0.47	0.031	0.369
chr13:65610375-65634500_R	chr13:65610375-65634500_R	lincRNA:chr13:65610375-65634500 reverse strand	-0.47	0.042	0.423
ENSMUST00000096043	ENSMUST00000096043	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q8C8M4] [ENSMUST00000096043]	-0.47	0.004	0.130
Olf1449	NM_146303	ref Mus musculus olfactory receptor 1449 (Olf1449), mRNA [NM_146303]	-0.47	0.047	0.446
LOC100044378	XM_001472125	ref PREDICTED: Mus musculus similar to CDNA sequence BC061237 (LOC100044378), mRNA [XM_001472125]	-0.47	0.031	0.369
Cd59b	NM_181858	ref Mus musculus CD59b antigen (Cd59b), mRNA [NM_181858]	-0.47	0.007	0.179
Ncr1	NM_010746	ref Mus musculus natural cytotoxicity triggering receptor 1 (Ncr1), mRNA [NM_010746]	-0.47	0.030	0.361
Ppp1r16b	NM_001159662	ref Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 16B (Ppp1r16b), transcript variant 1, mRNA [NM_001159662]	-0.47	0.025	0.330
Rimklb	NM_027664	ref Mus musculus ribosomal modification protein rimK-like family member B (Rimklb), mRNA [NM_027664]	-0.47	0.047	0.447

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Cspg5	NM_001166273	ref Mus musculus chondroitin sulfate proteoglycan 5 (Cspg5), transcript variant 2, mRNA [NM_001166273]	-0.47	0.002	0.087
Celf5	NM_176954	ref Mus musculus CUGBP, Elav-like family member 5 (Celf5), mRNA [NM_176954]	-0.47	0.050	0.457
chr8:47813487-47824869_R	chr8:47813487-47824869_R	lincRNA:chr8:47813487-47824869 reverse strand	-0.47	0.023	0.319
Vmn2r112	NM_001104575	ref Mus musculus vomeronasal 2, receptor 112 (Vmn2r112), mRNA [NM_001104575]	-0.47	0.009	0.198
Gkn3	NM_026860	ref Mus musculus gastroke 3 (Gkn3), mRNA [NM_026860]	-0.47	0.003	0.116
Gm8956	XR_030853	ref PREDICTED: Mus musculus similar to ubiquitin-conjugating enzyme E2C (LOC668063), misc RNA [XR_030853]	-0.47	0.006	0.163
ENSMUST00000103608	ENSMUST00000103608	ens TRAV14-3 Fragment [Source:UniProtKB/TrEMBL;Acc:Q5R1B3] [ENSMUST00000103608]	-0.47	0.027	0.343
Lxn	NM_016753	ref Mus musculus latexin (Lxn), mRNA [NM_016753]	-0.47	0.042	0.423
chr4:135138014-135174889_R	chr4:135138014-135174889_R	lincRNA:chr4:135138014-135174889 reverse strand	-0.47	0.044	0.430
Gapdh	NM_008084	ref Mus musculus glyceraldehyde-3-phosphate dehydrogenase (Gapdh), mRNA [NM_008084]	-0.47	0.002	0.085
chr8:67542714-67561694_F	chr8:67542714-67561694_F	lincRNA:chr8:67542714-67561694 forward strand	-0.47	0.036	0.393
chr6:127111250-127142925_F	chr6:127111250-127142925_F	lincRNA:chr6:127111250-127142925 forward strand	-0.47	0.038	0.405
LOC676177	XM_987925	ref PREDICTED: Mus musculus similar to doublesex and mab-3 related transcription factor 8.2 (LOC676177), mRNA [XM_987925]	-0.47	0.033	0.376
Spna1	NM_011465	ref Mus musculus spectrin alpha 1 (Spna1), mRNA [NM_011465]	-0.47	0.005	0.152
chr14:77077374-77086910_F	chr14:77077374-77086910_F	lincRNA:chr14:77077374-77086910 forward strand	-0.47	0.001	0.078
LOC100048891	XR_031602	ref PREDICTED: Mus musculus similar to spermiogenesis specific transcript on the Y1 (LOC100048891), misc RNA [XR_031602]	-0.48	0.048	0.452
Aqp11	NM_175105	ref Mus musculus aquaporin 11 (Aqp11), mRNA [NM_175105]	-0.48	0.025	0.330
Gm4720	XM_001481217	ref PREDICTED: Mus musculus similar to ORF1 (LOC100043907), mRNA [XM_001481217]	-0.48	0.010	0.209
chr8:89996710-90049453_F	chr8:89996710-90049453_F	lincRNA:chr8:89996710-90049453 forward strand	-0.48	0.011	0.223
Pipox	NM_008952	ref Mus musculus pipecolic acid oxidase (Pipox), mRNA [NM_008952]	-0.48	0.033	0.377
Gbp3	NM_018734	ref Mus musculus guanylate binding protein 3 (Gbp3), mRNA [NM_018734]	-0.48	0.040	0.413
Ces3	NM_053200	ref Mus musculus carboxylesterase 3 (Ces3), mRNA [NM_053200]	-0.48	0.045	0.439
Rad51c	ENSMUST00000067692	ens RAD51 homolog c (S. cerevisiae) Gene [Source:MGI (curated);Acc:MGI:2150020] [ENSMUST00000067692]	-0.48	0.009	0.206
Ccdc138	NM_001162956	ref Mus musculus coiled-coil domain containing 138 (Ccdc138), mRNA [NM_001162956]	-0.48	0.001	0.053
Arl6ip6	NM_022989	ref Mus musculus ADP-ribosylation factor-like 6 interacting protein 6 (Arl6ip6), mRNA [NM_022989]	-0.48	0.000	0.023
Larp7	NM_138593	ref Mus musculus La ribonucleoprotein domain family, member 7 (Larp7), mRNA [NM_138593]	-0.48	0.045	0.439
chr2:10237649-10287591_F	chr2:10237649-10287591_F	lincRNA:chr2:10237649-10287591 forward strand	-0.48	0.037	0.398
chr15:61153994-61285386_F	chr15:61153994-61285386_F	lincRNA:chr15:61153994-61285386 forward strand	-0.48	0.004	0.131
Nik	NM_008702	ref Mus musculus nemo like kinase (Nik), mRNA [NM_008702]	-0.48	0.001	0.070

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Mpzl3	NM_001093749	ref Mus musculus myelin protein zero-like 3 (Mpzl3), transcript variant 2, mRNA [NM_001093749]	-0.48	0.015	0.266
chr13:28490070-28492645_R	chr13:28490070-28492645_R	lincRNA:chr13:28490070-28492645 reverse strand	-0.48	0.008	0.186
Vil1	NM_009509	ref Mus musculus villin 1 (Vil1), mRNA [NM_009509]	-0.48	0.028	0.348
Tnfsf10	NM_009425	ref Mus musculus tumor necrosis factor (ligand) superfamily, member 10 (Tnfsf10), mRNA [NM_009425]	-0.48	0.039	0.409
Itga1	NM_001033228	ref Mus musculus integrin alpha 1 (Itga1), mRNA [NM_001033228]	-0.49	0.011	0.225
Ube2c	NM_026785	ref Mus musculus ubiquitin-conjugating enzyme E2C (Ube2c), mRNA [NM_026785]	-0.49	0.023	0.322
Arntl	NM_007489	ref Mus musculus aryl hydrocarbon receptor nuclear translocator-like (Arntl), mRNA [NM_007489]	-0.49	0.047	0.445
AI593442	NM_178906	ref Mus musculus expressed sequence AI593442 (AI593442), transcript variant 2, mRNA [NM_178906]	-0.49	0.037	0.400
Mlxip1	NM_021455	ref Mus musculus MLX interacting protein-like (Mlxip1), mRNA [NM_021455]	-0.49	0.000	0.029
Trim7	NM_053166	ref Mus musculus tripartite motif-containing 7 (Trim7), mRNA [NM_053166]	-0.49	0.001	0.068
chr9:55925993-55926583_R	chr9:55925993-55926583_R	lincRNA:chr9:55925993-55926583 reverse strand	-0.49	0.023	0.320
Tgtp2	NM_001145164	ref Mus musculus T-cell specific GTPase 2 (Tgtp2), mRNA [NM_001145164]	-0.49	0.009	0.200
chr11:102983499-102994170_R	chr11:102983499-102994170_R	lincRNA:chr11:102983499-102994170 reverse strand	-0.49	0.003	0.109
Pabpc6	NM_001163836	ref Mus musculus poly(A) binding protein, cytoplasmic 6 (Pabpc6), mRNA [NM_001163836]	-0.49	0.009	0.203
Mrps14	NM_025474	ref Mus musculus mitochondrial ribosomal protein S14 (Mrps14), nuclear gene encoding mitochondrial protein, mRNA [NM_025474]	-0.49	0.018	0.280
Hbb-b1	NM_008220	ref Mus musculus hemoglobin, beta adult major chain (Hbb-b1), mRNA [NM_008220]	-0.49	0.010	0.208
chr4:146345650-146356650_F	chr4:146345650-146356650_F	lincRNA:chr4:146345650-146356650 forward strand	-0.49	0.046	0.443
Cd1d1	NM_007639	ref Mus musculus CD1d1 antigen (Cd1d1), mRNA [NM_007639]	-0.49	0.004	0.129
Slc25a26	NM_026255	ref Mus musculus solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 26 (Slc25a26), nuclear gene encoding mitochondrial protein, mRNA [NM_026255]	-0.49	0.011	0.221
Zmynd19	NM_026021	ref Mus musculus zinc finger, MYND domain containing 19 (Zmynd19), mRNA [NM_026021]	-0.49	0.007	0.181
6530418L21Rik	NM_175398	ref Mus musculus RIKEN cDNA 6530418L21 gene (6530418L21Rik), transcript variant 1, mRNA [NM_175398]	-0.49	0.008	0.183
Cngb3	NM_013927	ref Mus musculus cyclic nucleotide gated channel beta 3 (Cngb3), mRNA [NM_013927]	-0.49	0.042	0.425
chr12:89519675-89533975_F	chr12:89519675-89533975_F	lincRNA:chr12:89519675-89533975 forward strand	-0.50	0.017	0.280
chr7:69005291-69007813_R	chr7:69005291-69007813_R	lincRNA:chr7:69005291-69007813 reverse strand	-0.50	0.015	0.260
Mia1	NM_019394	ref Mus musculus melanoma inhibitory activity 1 (Mia1), mRNA [NM_019394]	-0.50	0.024	0.326
ENSMUST00000033744	ENSMUST00000033744	ens ATPase, Ca++ transporting, plasma membrane 3 Gene [Source:MGI (curated);Acc:MGI:1347353] [ENSMUST00000033744]	-0.50	0.029	0.355
Dcaf12l2	NM_175539	ref Mus musculus DDB1 and CUL4 associated factor 12-like 2 (Dcaf12l2), mRNA [NM_175539]	-0.50	0.012	0.236
Olf220	NM_207694	ref Mus musculus olfactory receptor 220 (Olf220), mRNA [NM_207694]	-0.50	0.011	0.224
Myh6	NM_001164171	ref Mus musculus myosin, heavy polypeptide 6, cardiac muscle, alpha (Myh6), transcript variant 1, mRNA [NM_001164171]	-0.50	0.004	0.129

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Gm4934	NM_001167593	ref Mus musculus predicted gene 4934 (Gm4934), mRNA [NM_001167593]	-0.50	0.024	0.329
chr13:78341864-78375825_R	chr13:78341864-78375825_R	lincRNA:chr13:78341864-78375825 reverse strand	-0.50	0.008	0.192
ENSMUST00000097692	ENSMUST00000097692	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q9D1Y2] [ENSMUST00000097692]	-0.50	0.002	0.088
Chchd7	ENSMUST00000119403	ens coiled-coil-helix-coiled-coil-helix domain containing 7 Gene [Source:MGI (curated);Acc:MGI:1913683] [ENSMUST00000119403]	-0.50	0.001	0.047
Rgs6	NM_015812	ref Mus musculus regulator of G-protein signaling 6 (Rgs6), mRNA [NM_015812]	-0.50	0.000	0.017
chr17:87674225-87682154_R	chr17:87674225-87682154_R	lincRNA:chr17:87674225-87682154 reverse strand	-0.50	0.034	0.383
Adcy8	NM_009623	ref Mus musculus adenylate cyclase 8 (Adcy8), mRNA [NM_009623]	-0.50	0.043	0.428
Gm8860	XR_031014	ref PREDICTED: Mus musculus similar to ribosomal protein (LOC667886), misc RNA [XR_031014]	-0.50	0.025	0.332
chr8:12535648-12544923_R	chr8:12535648-12544923_R	lincRNA:chr8:12535648-12544923 reverse strand	-0.50	0.029	0.357
Pax5	NM_008782	ref Mus musculus paired box gene 5 (Pax5), mRNA [NM_008782]	-0.50	0.030	0.366
Tff2	NM_009363	ref Mus musculus trefoil factor 2 (spasmolytic protein 1) (Tff2), mRNA [NM_009363]	-0.50	0.013	0.245
ENSMUST00000103306	ENSMUST00000103306	Unknown	-0.51	0.004	0.141
ENSMUST00000098605	ENSMUST00000098605	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UPY1] [ENSMUST00000098605]	-0.51	0.015	0.259
Tuba8	NM_017379	ref Mus musculus tubulin, alpha 8 (Tuba8), mRNA [NM_017379]	-0.51	0.025	0.331
chr2:176908707-176991202_R	chr2:176908707-176991202_R	lincRNA:chr2:176908707-176991202 reverse strand	-0.51	0.017	0.280
Sesn3	NM_030261	ref Mus musculus sestrin 3 (Sesn3), mRNA [NM_030261]	-0.51	0.010	0.215
LOC100040905	XM_001475464	ref PREDICTED: Mus musculus similar to cyclic nucleotide gated channel beta 1 (LOC100040905), mRNA [XM_001475464]	-0.51	0.037	0.396
Skint7	NM_177818	ref Mus musculus selection and upkeep of intraepithelial T cells 7 (Skint7), transcript variant 2, mRNA [NM_177818]	-0.51	0.001	0.058
AI426330	AK133434	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933430M05 product:unclassifiable, full insert sequence. [AK133434]	-0.51	0.000	0.030
Ms4a4c	NM_029499	ref Mus musculus membrane-spanning 4-domains, subfamily A, member 4C (Ms4a4c), mRNA [NM_029499]	-0.51	0.000	0.032
Nlr1	NM_001163743	ref Mus musculus NLR family member X1 (Nlr1), transcript variant 1, mRNA [NM_001163743]	-0.51	0.036	0.392
chr7:86651948-86675223_R	chr7:86651948-86675223_R	lincRNA:chr7:86651948-86675223 reverse strand	-0.51	0.037	0.398
Gm2820	XM_001474152	ref PREDICTED: Mus musculus hypothetical protein LOC100040520 (LOC100040520), mRNA [XM_001474152]	-0.51	0.008	0.192
Slc46a2	NM_021053	ref Mus musculus solute carrier family 46, member 2 (Slc46a2), mRNA [NM_021053]	-0.51	0.005	0.154
Cdh20	NM_011800	ref Mus musculus cadherin 20 (Cdh20), mRNA [NM_011800]	-0.51	0.003	0.124
Lrrc3b	NM_146052	ref Mus musculus leucine rich repeat containing 3B (Lrrc3b), mRNA [NM_146052]	-0.51	0.007	0.176
Sim2	NM_011377	ref Mus musculus single-minded homolog 2 (Drosophila) (Sim2), mRNA [NM_011377]	-0.51	0.045	0.441
Fam84b	NM_001162926	ref Mus musculus family with sequence similarity 84, member B (Fam84b), mRNA [NM_001162926]	-0.51	0.007	0.182

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr9:43921700-43939600_F	chr9:43921700-43939600_F	lincRNA:chr9:43921700-43939600 forward strand	-0.51	0.006	0.157
Egflam	NM_178748	ref Mus musculus EGF-like, fibronectin type III and laminin G domains (Egflam), mRNA [NM_178748]	-0.51	0.020	0.295
Hist1h2an	NM_178184	ref Mus musculus histone cluster 1, H2an (Hist1h2an), mRNA [NM_178184]	-0.51	0.002	0.096
chr2:143992000-143992611_F	chr2:143992000-143992611_F	lincRNA:chr2:143992000-143992611 forward strand	-0.51	0.006	0.162
chr3:9401052-9415202_F	chr3:9401052-9415202_F	lincRNA:chr3:9401052-9415202 forward strand	-0.52	0.008	0.194
Gm10586	XM_001480373	ref PREDICTED: Mus musculus hypothetical protein LOC100043589 (LOC100043589), mRNA [XM_001480373]	-0.52	0.000	0.036
Ccl1	NM_011329	ref Mus musculus chemokine (C-C motif) ligand 1 (Ccl1), mRNA [NM_011329]	-0.52	0.006	0.166
2310040G24Rik	XM_001479091	ref PREDICTED: Mus musculus RIKEN cDNA 2310040G24 gene (2310040G24Rik), mRNA [XM_001479091]	-0.52	0.006	0.157
Shisa2	NM_145463	ref Mus musculus shisa homolog 2 (Xenopus laevis) (Shisa2), mRNA [NM_145463]	-0.52	0.017	0.278
chr13:28490070-28492645_R	chr13:28490070-28492645_R	lincRNA:chr13:28490070-28492645 reverse strand	-0.52	0.046	0.443
chr14:77042348-77042645_R	chr14:77042348-77042645_R	lincRNA:chr14:77042348-77042645 reverse strand	-0.52	0.022	0.312
ENSMUST00000103352	ENSMUST00000103352	gb Mus musculus immunoglobulin kappa light chain variable region mRNA, clone MRL1-56, partial cds. [U19317]	-0.52	0.021	0.308
Hnrnp3	NM_001079824	ref Mus musculus heterogeneous nuclear ribonucleoprotein H3 (Hnrnp3), mRNA [NM_001079824]	-0.52	0.028	0.348
Magix	NM_018832	ref Mus musculus MAGI family member, X-linked (Magix), mRNA [NM_018832]	-0.52	0.008	0.192
Smok2a	NM_013741	ref Mus musculus sperm motility kinase 2A (Smok2a), mRNA [NM_013741]	-0.53	0.049	0.454
Spin2	NM_001005370	ref Mus musculus spindlin family, member 2 (Spin2), mRNA [NM_001005370]	-0.53	0.027	0.344
Ankrd35	NM_001081139	ref Mus musculus ankyrin repeat domain 35 (Ankrd35), mRNA [NM_001081139]	-0.53	0.001	0.075
2310015D24Rik	XM_001474641	ref PREDICTED: Mus musculus RIKEN cDNA 2310015D24 gene (2310015D24Rik), mRNA [XM_001474641]	-0.53	0.022	0.310
Cd27	NM_001033126	ref Mus musculus CD27 antigen (Cd27), transcript variant 1, mRNA [NM_001033126]	-0.53	0.019	0.288
Zmat1	NM_175446	ref Mus musculus zinc finger, matrin type 1 (Zmat1), mRNA [NM_175446]	-0.53	0.046	0.441
Klhl32	NM_001163020	ref Mus musculus kelch-like 32 (Drosophila) (Klhl32), transcript variant 1, mRNA [NM_001163020]	-0.53	0.006	0.159
chr1:158979050-159007700_F	chr1:158979050-159007700_F	lincRNA:chr1:158979050-159007700 forward strand	-0.54	0.021	0.302
Lpin1	NM_001130412	ref Mus musculus lipin 1 (Lpin1), transcript variant 3, mRNA [NM_001130412]	-0.54	0.001	0.065
D7Wsu130e	AK081893	gb Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, clone:C130085H20 product:unclassifiable, full insert sequence. [AK081893]	-0.54	0.004	0.135
Gm5863	XM_001487781	ref PREDICTED: Mus musculus predicted gene, EG545741, transcript variant 1 (EG545741), mRNA [XM_001487781]	-0.54	0.000	0.041
Arl4d	NM_025404	ref Mus musculus ADP-ribosylation factor-like 4D (Arl4d), mRNA [NM_025404]	-0.54	0.001	0.052
4930503E14Rik	NM_029131	ref Mus musculus RIKEN cDNA 4930503E14 gene (4930503E14Rik), mRNA [NM_029131]	-0.54	0.042	0.423
Ndc80	NM_023294	ref Mus musculus NDC80 homolog, kinetochore complex component (S. cerevisiae) (Ndc80), mRNA [NM_023294]	-0.54	0.028	0.349

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Zdhhc22	NM_001080943	ref Mus musculus zinc finger, DHHC-type containing 22 (Zdhhc22), mRNA [NM_001080943]	-0.54	0.050	0.457
Tnfaip2	NM_009396	ref Mus musculus tumor necrosis factor, alpha-induced protein 2 (Tnfaip2), mRNA [NM_009396]	-0.54	0.021	0.309
chr12:74135916-74142780_R	chr12:74135916-74142780_R	lincRNA:chr12:74135916-74142780 reverse strand	-0.54	0.048	0.452
Arl4d	NM_025404	ref Mus musculus ADP-ribosylation factor-like 4D (Arl4d), mRNA [NM_025404]	-0.54	0.002	0.094
chr8:90048940-90049461_F	chr8:90048940-90049461_F	lincRNA:chr8:90048940-90049461 forward strand	-0.54	0.045	0.436
chr10:69842010-69842465_F	chr10:69842010-69842465_F	lincRNA:chr10:69842010-69842465 forward strand	-0.54	0.026	0.340
Tet1	NM_027384	ref Mus musculus tet oncogene 1 (Tet1), mRNA [NM_027384]	-0.54	0.013	0.241
Dennd4a	AK158840	gb Mus musculus visual cortex cDNA, RIKEN full-length enriched library, clone:K430341N21 product:hypothetical protein, full insert sequence. [AK158840]	-0.54	0.001	0.059
Exo1	NM_012012	ref Mus musculus exonuclease 1 (Exo1), mRNA [NM_012012]	-0.54	0.015	0.264
4930563J15Rik	AK030044	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4932416O05 product:unclassifiable, full insert sequence. [AK030044]	-0.54	0.009	0.201
Lrp2bp	NM_026278	ref Mus musculus Lrp2 binding protein (Lrp2bp), mRNA [NM_026278]	-0.54	0.040	0.415
Ubtf	NM_011551	ref Mus musculus upstream binding transcription factor, RNA polymerase I (Ubtf), transcript variant 1, mRNA [NM_011551]	-0.55	0.000	0.036
ENSMUST00000113902	ENSMUST00000113902	ens RIKEN cDNA 4932442L08 gene Gene [Source:MGI Symbol;Acc:MGI:1921682] [ENSMUST00000113902]	-0.55	0.041	0.418
LOC100047586	XM_001478463	ref PREDICTED: Mus musculus similar to Ly6/Plaur domain containing 5 (LOC100047586), mRNA [XM_001478463]	-0.55	0.008	0.194
chr12:81217572-81233910_R	chr12:81217572-81233910_R	lincRNA:chr12:81217572-81233910 reverse strand	-0.55	0.000	0.043
Gng13	NM_022422	ref Mus musculus guanine nucleotide binding protein (G protein), gamma 13 (Gng13), mRNA [NM_022422]	-0.55	0.030	0.365
Gm3240	XM_001473170	ref PREDICTED: Mus musculus hypothetical protein LOC100044944 (LOC100044944), mRNA [XM_001473170]	-0.55	0.020	0.300
chrX:148819227-148844227_F	chrX:148819227-148844227_F	lincRNA:chrX:148819227-148844227 forward strand	-0.55	0.014	0.250
Al663975	AK033778	gb Mus musculus adult male epididymis cDNA, RIKEN full-length enriched library, clone:9230106H08 product:unclassifiable, full insert sequence. [AK033778]	-0.55	0.001	0.048
chr19:40663924-40669352_F	chr19:40663924-40669352_F	lincRNA:chr19:40663924-40669352 forward strand	-0.55	0.018	0.283
Ccdc30	NM_029286	ref Mus musculus coiled-coil domain containing 30 (Ccdc30), mRNA [NM_029286]	-0.55	0.034	0.384
Clmn	NM_053155	ref Mus musculus calmin (Clmn), transcript variant 1, mRNA [NM_053155]	-0.55	0.011	0.217
Gli1	NM_010296	ref Mus musculus GLI-Kruppel family member GLI1 (Gli1), mRNA [NM_010296]	-0.55	0.027	0.344
Cntln	NM_177385	ref Mus musculus centlein, centrosomal protein (Cntln), transcript variant 2, mRNA [NM_177385]	-0.55	0.006	0.161
Tnfaip811	NM_025566	ref Mus musculus tumor necrosis factor, alpha-induced protein 8-like 1 (Tnfaip811), mRNA [NM_025566]	-0.56	0.004	0.142
Agtr2	NM_007429	ref Mus musculus angiotensin II receptor, type 2 (Agtr2), mRNA [NM_007429]	-0.56	0.010	0.208
Col6a6	NM_001102607	ref Mus musculus collagen, type VI, alpha 6 (Col6a6), transcript variant 1, mRNA [NM_001102607]	-0.56	0.026	0.337

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr4:115639749-115641787_R	chr4:115639749-115641787_R	lincRNA:chr4:115639749-115641787 reverse strand	-0.56	0.023	0.318
chr11:22510175-22522025_R	chr11:22510175-22522025_R	lincRNA:chr11:22510175-22522025 reverse strand	-0.56	0.009	0.204
E030037K03Rik	NM_001177349	ref Mus musculus RIKEN cDNA E030037K03 gene (E030037K03Rik), transcript variant 1, mRNA [NM_001177349]	-0.56	0.039	0.408
Myct1	NM_026793	ref Mus musculus myc target 1 (Myct1), mRNA [NM_026793]	-0.56	0.003	0.106
Olfr676	NM_147095	ref Mus musculus olfactory receptor 676 (Olfr676), mRNA [NM_147095]	-0.56	0.043	0.429
chr6:52046805-52072744_F	chr6:52046805-52072744_F	lincRNA:chr6:52046805-52072744 forward strand	-0.56	0.004	0.140
Pex10	NM_001042407	ref Mus musculus peroxisomal biogenesis factor 10 (Pex10), mRNA [NM_001042407]	-0.56	0.028	0.351
chr8:89996710-90049453_F	chr8:89996710-90049453_F	lincRNA:chr8:89996710-90049453 forward strand	-0.57	0.012	0.229
Lrba	NM_030695	ref Mus musculus LPS-responsive beige-like anchor (Lrba), transcript variant 1, mRNA [NM_030695]	-0.57	0.000	0.032
Lactbl1	ENSMUST00000094599	ref PREDICTED: Mus musculus cDNA sequence BC029684 (BC029684), mRNA [XM_205950]	-0.57	0.003	0.126
Nrn1	NM_153529	ref Mus musculus neuritin 1 (Nm1), mRNA [NM_153529]	-0.57	0.026	0.338
LOC634100	ENSMUST00000103511	Unknown	-0.57	0.005	0.146
chr13:108577843-108679708_R	chr13:108577843-108679708_R	lincRNA:chr13:108577843-108679708 reverse strand	-0.57	0.004	0.138
BC030867	NM_153544	ref Mus musculus cDNA sequence BC030867 (BC030867), mRNA [NM_153544]	-0.57	0.012	0.234
Pcdh15	NM_001142743	ref Mus musculus protocadherin 15 (Pcdh15), transcript variant J, mRNA [NM_001142743]	-0.57	0.024	0.327
Pitpnm3	NM_001024927	ref Mus musculus PITPNM family member 3 (Pitpnm3), transcript variant 1, mRNA [NM_001024927]	-0.57	0.017	0.278
Car5b	NM_181315	ref Mus musculus carbonic anhydrase 5b, mitochondrial (Car5b), nuclear gene encoding mitochondrial protein, mRNA [NM_181315]	-0.57	0.011	0.225
Gm5887	NM_001034903	ref Mus musculus predicted gene 5887 (Gm5887), mRNA [NM_001034903]	-0.57	0.005	0.154
LOC100048858	XM_001472990	ref PREDICTED: Mus musculus similar to Ribosomal protein S6 kinase, polypeptide 2 (LOC100048858), mRNA [XM_001472990]	-0.57	0.008	0.192
LOC641199	XM_918544	ref PREDICTED: Mus musculus similar to preserine protease (LOC641199), mRNA [XM_918544]	-0.57	0.031	0.367
Gpt2	NM_173866	ref Mus musculus glutamic pyruvate transaminase (alanine aminotransferase) 2 (Gpt2), mRNA [NM_173866]	-0.57	0.001	0.070
Hist1h2ag	NM_178186	ref Mus musculus histone cluster 1, H2ag (Hist1h2ag), mRNA [NM_178186]	-0.58	0.020	0.301
Plk5	NM_183152	ref Mus musculus polo-like kinase 5 (Drosophila) (Plk5), mRNA [NM_183152]	-0.58	0.003	0.119
A2bp1	NM_021477	ref Mus musculus ataxin 2 binding protein 1 (A2bp1), transcript variant 2, mRNA [NM_021477]	-0.58	0.014	0.251
chr1:182180931-182186106_F	chr1:182180931-182186106_F	lincRNA:chr1:182180931-182186106 forward strand	-0.58	0.041	0.419
Pde4a	NM_183408	ref Mus musculus phosphodiesterase 4A, cAMP specific (Pde4a), transcript variant 5, mRNA [NM_183408]	-0.58	0.021	0.309
Tk1	NM_009387	ref Mus musculus thymidine kinase 1 (Tk1), mRNA [NM_009387]	-0.58	0.036	0.394
Dppa2	NM_028615	ref Mus musculus developmental pluripotency associated 2 (Dppa2), mRNA [NM_028615]	-0.58	0.010	0.208
Gm5330	XM_357735	ref PREDICTED: Mus musculus predicted gene, EG384596 (EG384596), mRNA [XM_357735]	-0.58	0.042	0.422

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
Mapk8	NM_016700	ref Mus musculus mitogen-activated protein kinase 8 (Mapk8), mRNA [NM_016700]	-0.58	0.034	0.383
chr7:28588159-28617009_R	chr7:28588159-28617009_R	lincRNA:chr7:28588159-28617009 reverse strand	-0.58	0.029	0.358
Espn	NM_207687	ref Mus musculus espin (Espn), transcript variant 1, mRNA [NM_207687]	-0.58	0.007	0.171
chr18:35985999-35986376_R	chr18:35985999-35986376_R	lincRNA:chr18:35985999-35986376 reverse strand	-0.58	0.001	0.073
9030617O03Rik	NM_145448	ref Mus musculus RIKEN cDNA 9030617O03 gene (9030617O03Rik), mRNA [NM_145448]	-0.58	0.001	0.046
chr4:136871882-136872469_R	chr4:136871882-136872469_R	lincRNA:chr4:136871882-136872469 reverse strand	-0.59	0.017	0.274
Prkg2	NM_008926	ref Mus musculus protein kinase, cGMP-dependent, type II (Prkg2), mRNA [NM_008926]	-0.59	0.001	0.053
4930432B10Rik	AK015283	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930432B10 product:unclassifiable, full insert sequence. [AK015283]	-0.59	0.022	0.312
5430405H02Rik	AK017271	gb Mus musculus 6 days neonate head cDNA, RIKEN full-length enriched library, clone:5430405H02 product:unclassifiable, full insert sequence. [AK017271]	-0.59	0.044	0.431
Auts2	NM_177047	ref Mus musculus autism susceptibility candidate 2 (Auts2), mRNA [NM_177047]	-0.59	0.027	0.345
Galm	NM_176963	ref Mus musculus galactose mutarotase (Galm), mRNA [NM_176963]	-0.59	0.008	0.193
Gm10270	XM_001474128	ref PREDICTED: Mus musculus similar to put. HMG-17 protein (LOC100040129), mRNA [XM_001474128]	-0.59	0.034	0.386
Gm15855	XR_002073	ref PREDICTED: Mus musculus similar to killer cell lectin-like receptor subfamily A member 29 (LOC667769), misc RNA [XR_002073]	-0.60	0.040	0.414
chr4:126710640-126721240_R	chr4:126710640-126721240_R	lincRNA:chr4:126710640-126721240 reverse strand	-0.60	0.010	0.211
ENSMUST00000100177	ENSMUST00000100177	ens RIKEN cDNA 2310015D24 gene Gene [Source:MGI Symbol;Acc:MGI:1917350] [ENSMUST00000100177]	-0.60	0.003	0.118
Mest	NM_008590	ref Mus musculus mesoderm specific transcript (Mest), mRNA [NM_008590]	-0.60	0.016	0.274
chr18:38776580-38841080_F	chr18:38776580-38841080_F	lincRNA:chr18:38776580-38841080 forward strand	-0.60	0.034	0.383
4833419G08Rik	XM_994760	ref PREDICTED: Mus musculus RIKEN cDNA 4833419G08 gene (4833419G08Rik), mRNA [XM_994760]	-0.60	0.007	0.177
chr7:69024136-69131056_F	chr7:69024136-69131056_F	lincRNA:chr7:69024136-69131056 forward strand	-0.60	0.040	0.415
Grpr	NM_008177	ref Mus musculus gastrin releasing peptide receptor (Grpr), mRNA [NM_008177]	-0.60	0.044	0.436
ENSMUST00000114306	ENSMUST00000114306	ens neuregulin 4 Gene [Source:MGI (curated);Acc:MGI:1933833] [ENSMUST00000114306]	-0.60	0.036	0.394
LOC633056	XM_907391	ref PREDICTED: Mus musculus similar to TL antigen (LOC633056), mRNA [XM_907391]	-0.60	0.015	0.263
Olf270	NM_146607	ref Mus musculus olfactory receptor 270 (Olf270), mRNA [NM_146607]	-0.60	0.009	0.201
Ube2c	NM_026785	ref Mus musculus ubiquitin-conjugating enzyme E2C (Ube2c), mRNA [NM_026785]	-0.61	0.004	0.133
LOC100048852	XM_001472342	ref PREDICTED: Mus musculus similar to phospholipase A2, group V (LOC100048852), mRNA [XM_001472342]	-0.61	0.002	0.083
Gp5	NM_008148	ref Mus musculus glycoprotein 5 (platelet) (Gp5), mRNA [NM_008148]	-0.61	0.012	0.237
chr17:74595885-74597555_R	chr17:74595885-74597555_R	lincRNA:chr17:74595885-74597555 reverse strand	-0.61	0.009	0.198
Hbb-b2	NM_016956	ref Mus musculus hemoglobin, beta adult minor chain (Hbb-b2), mRNA [NM_016956]	-0.61	0.005	0.145
A630073D07Rik	NM_001142969	ref Mus musculus RIKEN cDNA A630073D07 gene (A630073D07Rik), mRNA [NM_001142969]	-0.61	0.029	0.355

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Mxi1	NM_001008542	ref Mus musculus Max interacting protein 1 (Mxi1), transcript variant 2, mRNA [NM_001008542]	-0.61	0.026	0.341
Cd200	NM_010818	ref Mus musculus CD200 antigen (Cd200), mRNA [NM_010818]	-0.61	0.043	0.428
Vmn2r80	NM_001103368	ref Mus musculus vomeronasal 2, receptor 80 (Vmn2r80), mRNA [NM_001103368]	-0.61	0.011	0.220
chr14:78214602-78226287_F	chr14:78214602-78226287_F	lincRNA:chr14:78214602-78226287 forward strand	-0.61	0.050	0.456
Tdrd5	AK138828	gb Mus musculus 0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A430087N04 product:hypothetical protein, full insert sequence. [AK138828]	-0.61	0.045	0.437
chrX:120963050-120963598_F	chrX:120963050-120963598_F	lincRNA:chrX:120963050-120963598 forward strand	-0.61	0.000	0.032
Gm5782	XM_622131	ref PREDICTED: Mus musculus predicted gene, EG544767 (EG544767), mRNA [XM_622131]	-0.62	0.035	0.390
LOC633720	XM_908200	ref PREDICTED: Mus musculus hypothetical LOC633720 (LOC633720), mRNA [XM_908200]	-0.62	0.046	0.442
Gm3654	XM_001477536	ref PREDICTED: Mus musculus similar to 2810047C21Rik protein (LOC100042083), mRNA [XM_001477536]	-0.62	0.028	0.348
chr12:8451791-8452287_R	chr12:8451791-8452287_R	lincRNA:chr12:8451791-8452287 reverse strand	-0.62	0.030	0.360
Lmnb1	NM_010721	ref Mus musculus lamin B1 (Lmnb1), mRNA [NM_010721]	-0.62	0.008	0.193
Cd3g	NM_009850	ref Mus musculus CD3 antigen, gamma polypeptide (Cd3g), mRNA [NM_009850]	-0.62	0.041	0.422
Gadd45a	NM_007836	ref Mus musculus growth arrest and DNA-damage-inducible 45 alpha (Gadd45a), mRNA [NM_007836]	-0.62	0.005	0.150
AU015230	BG083149	gb H3085A07-5 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3085A07 5', mRNA sequence [BG083149]	-0.62	0.019	0.291
Lpin1	NM_001130412	ref Mus musculus lipin 1 (Lpin1), transcript variant 3, mRNA [NM_001130412]	-0.62	0.002	0.096
chr13:51248135-51248633_R	chr13:51248135-51248633_R	lincRNA:chr13:51248135-51248633 reverse strand	-0.62	0.047	0.448
Myct1	NM_026793	ref Mus musculus myc target 1 (Myct1), mRNA [NM_026793]	-0.62	0.015	0.260
chr6:52046805-52072744_F	chr6:52046805-52072744_F	lincRNA:chr6:52046805-52072744 forward strand	-0.63	0.047	0.446
chr13:28490070-28492645_R	chr13:28490070-28492645_R	lincRNA:chr13:28490070-28492645 reverse strand	-0.63	0.017	0.280
ENSMUST00000035088	ENSMUST00000035088	ens CLIP associating protein 2 Gene [Source:MGI Symbol;Acc:MGI:1923749] [ENSMUST00000035088]	-0.63	0.010	0.210
BC117090	NM_001001332	ref Mus musculus cDNA sequence BC117090 (BC117090), mRNA [NM_001001332]	-0.63	0.034	0.386
Trim67	NM_198632	ref Mus musculus tripartite motif-containing 67 (Trim67), mRNA [NM_198632]	-0.63	0.003	0.116
Tbx22	NM_181319	ref Mus musculus T-box 22 (Tbx22), transcript variant 2, mRNA [NM_181319]	-0.63	0.016	0.272
chrX:18810088-18814982_R	chrX:18810088-18814982_R	lincRNA:chrX:18810088-18814982 reverse strand	-0.63	0.021	0.303
Cdh23	NM_023370	ref Mus musculus cadherin 23 (otocadherin) (Cdh23), mRNA [NM_023370]	-0.63	0.023	0.316
chr13:65338067-65365992_F	chr13:65338067-65365992_F	lincRNA:chr13:65338067-65365992 forward strand	-0.63	0.005	0.155
4921528I01Rik	NM_027616	ref Mus musculus RIKEN cDNA 4921528I01 gene (4921528I01Rik), mRNA [NM_027616]	-0.63	0.046	0.444
chr6:52046805-52072744_F	chr6:52046805-52072744_F	lincRNA:chr6:52046805-52072744 forward strand	-0.63	0.017	0.277
LOC100044631	XM_001472620	ref PREDICTED: Mus musculus hypothetical protein LOC100044631 (LOC100044631), mRNA [XM_001472620]	-0.64	0.012	0.237
4921531C22Rik	NR_033782	ref Mus musculus RIKEN cDNA 4921531C22 gene (4921531C22Rik), non-coding RNA [NR_033782]	-0.64	0.021	0.302

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
chr8:90048940-90049461_F	chr8:90048940-90049461_F	lincRNA:chr8:90048940-90049461 forward strand	-0.64	0.003	0.108
chr16:40312038-40315564_F	chr16:40312038-40315564_F	lincRNA:chr16:40312038-40315564 forward strand	-0.64	0.034	0.384
ENSMUST00000023934	ENSMUST00000023934	ens hemoglobin, beta adult minor chain Gene [Source:MGI (curated);Acc:MGI:96022] [ENSMUST00000023934]	-0.64	0.003	0.108
Mybl2	NM_008652	ref Mus musculus myeloblastosis oncogene-like 2 (Mybl2), mRNA [NM_008652]	-0.64	0.041	0.418
ENSMUST00000084362	ENSMUST00000084362	ens RIKEN cDNA 9630013D21 gene Gene [Source:MGI Symbol;Acc:MGI:2442649] [ENSMUST00000084362]	-0.64	0.003	0.123
D630004K10Rik	AK052609	gb Mus musculus 0 day neonate kidney cDNA, RIKEN full-length enriched library, clone:D630004K10 product:unclassifiable, full insert sequence. [AK052609]	-0.64	0.005	0.143
Klra4	NM_010649	ref Mus musculus killer cell lectin-like receptor, subfamily A, member 4 (Klra4), mRNA [NM_010649]	-0.64	0.010	0.216
Ctnnd2	NM_008729	ref Mus musculus catenin (cadherin associated protein), delta 2 (Ctnnd2), mRNA [NM_008729]	-0.65	0.033	0.377
A930029G22Rik	XM_001480148	ref PREDICTED: Mus musculus RIKEN cDNA A930029G22 gene (A930029G22Rik), mRNA [XM_001480148]	-0.65	0.010	0.213
Nkx6-2	NM_183248	ref Mus musculus NK6 homeobox 2 (Nkx6-2), transcript variant 1, mRNA [NM_183248]	-0.66	0.046	0.444
Cc2d2a	NM_172274	ref Mus musculus coiled-coil and C2 domain containing 2A (Cc2d2a), mRNA [NM_172274]	-0.66	0.018	0.284
chr2:157838320-157853495_F	chr2:157838320-157853495_F	lincRNA:chr2:157838320-157853495 forward strand	-0.66	0.010	0.208
ENSMUST00000100889	ENSMUST00000100889	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UUH2] [ENSMUST00000100889]	-0.66	0.020	0.295
Mcam	NM_023061	ref Mus musculus melanoma cell adhesion molecule (Mcam), mRNA [NM_023061]	-0.66	0.022	0.315
chr12:76776232-76776905_F	chr12:76776232-76776905_F	lincRNA:chr12:76776232-76776905 forward strand	-0.66	0.026	0.342
chr15:5969454-5994540_F	chr15:5969454-5994540_F	lincRNA:chr15:5969454-5994540 forward strand	-0.66	0.030	0.365
Fcrl5	NM_001113238	ref Mus musculus Fc receptor-like 5 (Fcrl5), transcript variant 2, mRNA [NM_001113238]	-0.67	0.008	0.193
Dpy19l2	NM_001166207	ref Mus musculus dpy-19-like 2 (C. elegans) (Dpy19l2), mRNA [NM_001166207]	-0.67	0.007	0.178
Gm8709	NR_033633	ref Mus musculus predicted gene 8709 (Gm8709), non-coding RNA [NR_033633]	-0.67	0.023	0.321
chr5:23349978-23402028_R	chr5:23349978-23402028_R	lincRNA:chr5:23349978-23402028 reverse strand	-0.67	0.045	0.439
chr8:90048940-90049461_F	chr8:90048940-90049461_F	lincRNA:chr8:90048940-90049461 forward strand	-0.67	0.008	0.185
A930018M24Rik	AK034241	gb Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched library, clone:9330167E06 product:unclassifiable, full insert sequence. [AK034241]	-0.68	0.025	0.332
Olfr281	NM_146280	ref Mus musculus olfactory receptor 281 (Olfr281), mRNA [NM_146280]	-0.68	0.002	0.091
Cd79b	NM_008339	ref Mus musculus CD79B antigen (Cd79b), mRNA [NM_008339]	-0.68	0.033	0.377
ENSMUST00000095981	ENSMUST00000095981	ref PREDICTED: Mus musculus similar to CDNA sequence BC061237 (LOC100040976), mRNA [XM_001475591]	-0.68	0.019	0.291
chr10:21710544-21710942_F	chr10:21710544-21710942_F	lincRNA:chr10:21710544-21710942 forward strand	-0.68	0.026	0.337
LOC100045932	XM_001475199	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC100045932), mRNA [XM_001475199]	-0.68	0.042	0.422
5830405N20Rik	NM_183264	ref Mus musculus RIKEN cDNA 5830405N20 gene (5830405N20Rik), mRNA [NM_183264]	-0.68	0.007	0.178

Online Supplemental Table IV: Con-STZ Only					
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Slc16a10	NM_001114332	ref Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 10 (Slc16a10), transcript variant 1, mRNA [NM_001114332]	-0.68	0.002	0.100
4930433I11Rik	NM_207248	ref Mus musculus RIKEN cDNA 4930433I11 gene (4930433I11Rik), mRNA [NM_207248]	-0.68	0.010	0.215
Umodl1	NM_177465	ref Mus musculus uromodulin-like 1 (Umodl1), mRNA [NM_177465]	-0.68	0.001	0.077
Hist1h2ak	NM_178183	ref Mus musculus histone cluster 1, H2ak (Hist1h2ak), mRNA [NM_178183]	-0.68	0.021	0.302
LOC100041579	XM_001473364	ref PREDICTED: Mus musculus similar to chemokine (C-C motif) ligand 27, transcript variant 1 (LOC100041579), mRNA [XM_001473364]	-0.69	0.015	0.260
ENSMUST00000056086	ENSMUST00000056086	ens RIKEN cDNA 4930442H23 gene Gene [Source:MGI Symbol;Acc:MGI:1922144] [ENSMUST00000056086]	-0.69	0.004	0.135
4930428E23Rik	NM_001033786	ref Mus musculus RIKEN cDNA 4930428E23 gene (4930428E23Rik), mRNA [NM_001033786]	-0.69	0.006	0.167
Mif1	NM_010801	ref Mus musculus myeloid leukemia factor 1 (Mif1), transcript variant 2, mRNA [NM_010801]	-0.69	0.030	0.361
chr1:82892851-82943201_F	chr1:82892851-82943201_F	lincRNA:chr1:82892851-82943201 forward strand	-0.69	0.016	0.273
chr5:35975265-35982561_F	chr5:35975265-35982561_F	lincRNA:chr5:35975265-35982561 forward strand	-0.69	0.002	0.103
ENSMUST00000103743	ENSMUST00000103743	ens Ig lambda-3 chain C region [Source:UniProtKB/Swiss-Prot;Acc:P01845] [ENSMUST00000103743]	-0.69	0.044	0.434
Hist2h3c2-ps	NM_054045	ref Mus musculus histone cluster 2, H3c2, pseudogene (Hist2h3c2-ps), mRNA [NM_054045]	-0.69	0.000	0.004
Gm8046	XM_001476034	ref PREDICTED: Mus musculus hypothetical LOC666322 (LOC666322), mRNA [XM_001476034]	-0.69	0.039	0.412
E2f2	NM_177733	ref Mus musculus E2F transcription factor 2 (E2f2), mRNA [NM_177733]	-0.70	0.005	0.145
Wnt5b	NM_009525	ref Mus musculus wingless-related MMTV integration site 5B (Wnt5b), mRNA [NM_009525]	-0.70	0.007	0.173
chrX:100745320-100819322_R	chrX:100745320-100819322_R	lincRNA:chrX:100745320-100819322 reverse strand	-0.70	0.002	0.102
chr5:122982442-123000053_F	chr5:122982442-123000053_F	lincRNA:chr5:122982442-123000053 forward strand	-0.70	0.020	0.295
TC1666469	TC1666469	tc RNF19_MOUSE (P50636) RING finger protein 19 (XY body protein) (XYbp) (Gametogenesis expressed protein GEG-154) (UBCM4-interacting protein 117) (UIP117), partial (48%) [TC1666469]	-0.70	0.007	0.178
chr1:166985480-166986024_R	chr1:166985480-166986024_R	lincRNA:chr1:166985480-166986024 reverse strand	-0.71	0.031	0.366
chr14:75770673-75771326_F	chr14:75770673-75771326_F	lincRNA:chr14:75770673-75771326 forward strand	-0.71	0.018	0.285
Gm4322	XR_034577	ref PREDICTED: Mus musculus similar to Bex4 protein (LOC100043261), misc RNA [XR_034577]	-0.71	0.004	0.135
Slc15a1	NM_053079	ref Mus musculus solute carrier family 15 (oligopeptide transporter), member 1 (Slc15a1), mRNA [NM_053079]	-0.72	0.022	0.314
Col22a1	NM_027174	ref Mus musculus collagen, type XXII, alpha 1 (Col22a1), mRNA [NM_027174]	-0.72	0.033	0.376
chr14:28231577-28242027_R	chr14:28231577-28242027_R	lincRNA:chr14:28231577-28242027 reverse strand	-0.72	0.048	0.450
Gm4727	XM_001481245	ref PREDICTED: Mus musculus similar to cyclic nucleotide gated channel beta 1 (LOC100043936), mRNA [XM_001481245]	-0.72	0.041	0.419
chr5:35975265-35982561_F	chr5:35975265-35982561_F	lincRNA:chr5:35975265-35982561 forward strand	-0.72	0.001	0.065
LOC636713	XM_912206	ref PREDICTED: Mus musculus similar to SRF-dependent transcription regulation associated protein (LOC636713), mRNA [XM_912206]	-0.72	0.042	0.425
ENSMUST00000103558	ENSMUST00000103558	ens T-cell receptor gamma chain C region C7.5 [Source:UniProtKB/Swiss-Prot;Acc:P03985] [ENSMUST00000103558]	-0.72	0.048	0.450

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
2310002F09Rik	AK086402	gb Mus musculus 15 days embryo head cDNA, RIKEN full-length enriched library, clone:D930025P12 product:RIKEN cDNA 2310002F09 gene, full insert sequence. [AK086402]	-0.73	0.017	0.279
LOC100044327	XM_001471985	ref PREDICTED: Mus musculus hypothetical protein LOC100044327 (LOC100044327), mRNA [XM_001471985]	-0.73	0.013	0.247
ENSMUST00000097363	ENSMUST00000097363	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UUN7] [ENSMUST00000097363]	-0.73	0.036	0.394
Olf1153	NM_146640	ref Mus musculus olfactory receptor 1153 (Olf1153), mRNA [NM_146640]	-0.73	0.013	0.246
Gm9441	XM_001473953	ref PREDICTED: Mus musculus hypothetical LOC669079 (LOC669079), mRNA [XM_001473953]	-0.73	0.031	0.370
Fbxo15	NM_015798	ref Mus musculus F-box protein 15 (Fbxo15), mRNA [NM_015798]	-0.74	0.017	0.276
chr9:31834945-32015745_F	chr9:31834945-32015745_F	lincRNA:chr9:31834945-32015745 forward strand	-0.74	0.028	0.349
Pkd2l2	NM_016927	ref Mus musculus polycystic kidney disease 2-like 2 (Pkd2l2), transcript variant 1, mRNA [NM_016927]	-0.74	0.025	0.332
chr6:52046805-52072744_F	chr6:52046805-52072744_F	lincRNA:chr6:52046805-52072744 forward strand	-0.74	0.000	0.042
Olf1461	NM_146302	ref Mus musculus olfactory receptor 1461 (Olf1461), mRNA [NM_146302]	-0.74	0.018	0.282
ENSMUST00000110843	ENSMUST00000110843	ens dispatched homolog 2 (Drosophila) Gene [Source:MGI (curated);Acc:MGI:2388733] [ENSMUST00000110843]	-0.75	0.031	0.368
1700011F03Rik	NM_028825	ref Mus musculus RIKEN cDNA 1700011F03 gene (1700011F03Rik), mRNA [NM_028825]	-0.75	0.016	0.274
ENSMUST00000115043	ENSMUST00000115043	ens Fas-activated serine/threonine kinase Gene [Source:MGI (curated);Acc:MGI:1913837] [ENSMUST00000115043]	-0.75	0.005	0.145
chrX:20376867-20377837_F	chrX:20376867-20377837_F	lincRNA:chrX:20376867-20377837 forward strand	-0.75	0.039	0.412
Olf433	NM_146717	ref Mus musculus olfactory receptor 433 (Olf433), mRNA [NM_146717]	-0.75	0.031	0.368
chr19:38392796-38398771_R	chr19:38392796-38398771_R	lincRNA:chr19:38392796-38398771 reverse strand	-0.76	0.007	0.171
chr17:38132217-38157667_F	chr17:38132217-38157667_F	lincRNA:chr17:38132217-38157667 forward strand	-0.76	0.049	0.456
chr5:35975265-35982561_F	chr5:35975265-35982561_F	lincRNA:chr5:35975265-35982561 forward strand	-0.76	0.001	0.049
chr5:35975265-35982561_F	chr5:35975265-35982561_F	lincRNA:chr5:35975265-35982561 forward strand	-0.77	0.002	0.095
Gm2750	XM_001474616	ref PREDICTED: Mus musculus similar to Ubt1 protein (LOC100040397), mRNA [XM_001474616]	-0.77	0.028	0.351
2210407C18Rik	NM_144544	ref Mus musculus RIKEN cDNA 2210407C18 gene (2210407C18Rik), mRNA [NM_144544]	-0.77	0.001	0.068
Fbxw18	NM_001033794	ref Mus musculus F-box and WD-40 domain protein 18 (Fbxw18), mRNA [NM_001033794]	-0.78	0.001	0.080
chr2:75492010-75492464_F	chr2:75492010-75492464_F	lincRNA:chr2:75492010-75492464 forward strand	-0.78	0.032	0.373
Osbpl6	NM_145525	ref Mus musculus oxysterol binding protein-like 6 (Osbpl6), mRNA [NM_145525]	-0.78	0.002	0.083
Brca1	NM_009764	ref Mus musculus breast cancer 1 (Brca1), mRNA [NM_009764]	-0.78	0.024	0.326
Nacad	NM_001081652	ref Mus musculus NAC alpha domain containing (Nacad), mRNA [NM_001081652]	-0.79	0.004	0.140
chr5:113594167-113645342_R	chr5:113594167-113645342_R	lincRNA:chr5:113594167-113645342 reverse strand	-0.79	0.008	0.190
chr1:42689799-42749799_F	chr1:42689799-42749799_F	lincRNA:chr1:42689799-42749799 forward strand	-0.80	0.006	0.157

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value
2010015L04Rik	NM_177674	ref Mus musculus RIKEN cDNA 2010015L04 gene (2010015L04Rik), transcript variant 1, mRNA [NM_177674]	-0.80	0.012	0.228
chr1:73664661-73911040_R	chr1:73664661-73911040_R	lincRNA:chr1:73664661-73911040 reverse strand	-0.80	0.050	0.457
chr18:84297418-84297745_R	chr18:84297418-84297745_R	lincRNA:chr18:84297418-84297745 reverse strand	-0.81	0.007	0.180
Pate4	NM_020264	ref Mus musculus prostate and testis expressed 4 (Pate4), mRNA [NM_020264]	-0.81	0.020	0.300
Hapln1	NM_013500	ref Mus musculus hyaluronan and proteoglycan link protein 1 (Hapln1), mRNA [NM_013500]	-0.81	0.028	0.349
Gm6258	XM_896627	ref PREDICTED: Mus musculus predicted gene, EG621771 (EG621771), mRNA [XM_896627]	-0.81	0.037	0.401
Ltb	NM_008518	ref Mus musculus lymphotoxin B (Ltb), mRNA [NM_008518]	-0.82	0.036	0.391
chr15:5969454-5994540_R	chr15:5969454-5994540_R	lincRNA:chr15:5969454-5994540 reverse strand	-0.83	0.013	0.239
Rab42-ps	NM_001081651	ref Mus musculus RAB42, member RAS oncogene family, pseudogene (Rab42-ps), mRNA [NM_001081651]	-0.83	0.010	0.215
A530088E08Rik	NR_029458	ref Mus musculus RIKEN cDNA A530088E08 gene (A530088E08Rik), non-coding RNA [NR_029458]	-0.84	0.025	0.331
chr2:104702675-104736600_R	chr2:104702675-104736600_R	lincRNA:chr2:104702675-104736600 reverse strand	-0.84	0.046	0.445
Lrrc4	NM_138682	ref Mus musculus leucine rich repeat containing 4 (Lrrc4), mRNA [NM_138682]	-0.84	0.000	0.038
A330009N23Rik	AK038079	gb Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130076P06 product:unclassifiable, full insert sequence. [AK038079]	-0.85	0.045	0.441
Ptchd2	NM_001083342	ref Mus musculus patched domain containing 2 (Ptchd2), mRNA [NM_001083342]	-0.85	0.016	0.267
chr5:137392195-137426421_R	chr5:137392195-137426421_R	lincRNA:chr5:137392195-137426421 reverse strand	-0.86	0.032	0.374
C030047K22Rik	AK021157	gb Mus musculus adult male corpus striatum cDNA, RIKEN full-length enriched library, clone:C030047K22 product:inferred: RIKEN cDNA C030047K22 gene, full insert sequence. [AK021157]	-0.86	0.039	0.408
LOC676603	XR_035487	ref PREDICTED: Mus musculus similar to Xlr-like (LOC676603), misc RNA [XR_035487]	-0.87	0.011	0.222
chr5:115806200-115834425_R	chr5:115806200-115834425_R	lincRNA:chr5:115806200-115834425 reverse strand	-0.87	0.041	0.421
Vmn1r168	NM_001166842	ref Mus musculus vomeronasal 1 receptor 168 (Vmn1r168), mRNA [NM_001166842]	-0.87	0.019	0.293
chr11:104304424-104329824_F	chr11:104304424-104329824_F	lincRNA:chr11:104304424-104329824 forward strand	-0.88	0.029	0.357
Gm9513	NM_001128510	ref Mus musculus predicted gene 9513 (Gm9513), mRNA [NM_001128510]	-0.89	0.041	0.421
4930440C22Rik	AK015347	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930440C22 product:unclassifiable, full insert sequence. [AK015347]	-0.89	0.047	0.447
chr11:6748267-6818192_R	chr11:6748267-6818192_R	lincRNA:chr11:6748267-6818192 reverse strand	-0.90	0.023	0.317
Cd300lf	NM_001169153	ref Mus musculus CD300 antigen like family member F (Cd300lf), transcript variant 1, mRNA [NM_001169153]	-0.91	0.025	0.332
Krt12	NM_010661	ref Mus musculus keratin 12 (Krt12), mRNA [NM_010661]	-0.92	0.042	0.426
Il15	NM_008357	ref Mus musculus interleukin 15 (Il15), mRNA [NM_008357]	-0.93	0.000	0.006
chr17:66802920-66834745_F	chr17:66802920-66834745_F	lincRNA:chr17:66802920-66834745 forward strand	-0.97	0.032	0.373
4932414N04Rik	NM_183113	ref Mus musculus RIKEN cDNA 4932414N04 gene (4932414N04Rik), mRNA [NM_183113]	-0.97	0.031	0.367

Online Supplemental Table IV: Con-STZ Only

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value
Rbms3	NM_001172123	ref Mus musculus RNA binding motif, single stranded interacting protein (Rbms3), transcript variant 1, mRNA [NM_001172123]	-1.02	0.004	0.126
Gm5114	NM_177890	ref Mus musculus predicted gene 5114 (Gm5114), mRNA [NM_177890]	-1.04	0.017	0.274
chr11:96112907-96125798_F	chr11:96112907-96125798_F	lincRNA:chr11:96112907-96125798 forward strand	-1.05	0.010	0.208
Mycn	NM_008709	ref Mus musculus v-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian) (Mycn), mRNA [NM_008709]	-1.06	0.017	0.276
Speer4e	NM_001122661	ref Mus musculus spermatogenesis associated glutamate (E)-rich protein 4e (Speer4e), mRNA [NM_001122661]	-1.08	0.044	0.432
Ccne1	NM_007633	ref Mus musculus cyclin E1 (Ccne1), mRNA [NM_007633]	-1.13	0.002	0.088
4930579P08Rik	AK016333	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930579P08 product:unclassifiable, full insert sequence. [AK016333]	-1.14	0.001	0.061
5330427O13Rik	AK036170	gb Mus musculus 16 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:9630043I15 product:hypothetical protein, full insert sequence. [AK036170]	-1.15	0.014	0.255
LOC630474	XM_903912	ref PREDICTED: Mus musculus hypothetical LOC630474 (LOC630474), mRNA [XM_903912]	-1.27	0.020	0.295
ENSMUST00000103369	ENSMUST00000103369	ens Ig kappa chain V-V region K2 Precursor; Fragment [Source:UniProtKB/Swiss-Prot;Acc:P01635] [ENSMUST00000103369]	-1.37	0.020	0.295
9630001P10Rik	XM_981317	ref PREDICTED: Mus musculus RIKEN cDNA 9630001P10 gene (9630001P10Rik), mRNA [XM_981317]	-1.39	0.005	0.154
Dab1	NM_010014	ref Mus musculus disabled homolog 1 (Drosophila) (Dab1), transcript variant 1, mRNA [NM_010014]	-1.45	0.036	0.392
G930009F23Rik	AK145170	gb Mus musculus mammary gland RCB-0527 Jyg-MC(B) cDNA, RIKEN full-length enriched library, clone:G930009F23 product:hypothetical protein, full insert sequence. [AK145170]	-1.48	0.048	0.451
Gm6605	XM_893307	ref PREDICTED: Mus musculus predicted gene, EG625594, transcript variant 1 (EG625594), mRNA [XM_893307]	-1.48	0.026	0.340
chr5:22058025-22072475_R	chr5:22058025-22072475_R	lincRNA:chr5:22058025-22072475 reverse strand	-1.65	0.042	0.426
Gm6084	NM_001038500	ref Mus musculus predicted gene 6084 (Gm6084), mRNA [NM_001038500]	-1.92	0.006	0.162

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
Ttc25	NM_028918	ref Mus musculus tetratricopeptide repeat domain 25 (Ttc25), mRNA [NM_028918]	1.27	0.000	0.026	1.55	0.000	0.008
chr6:50339188-50409363_F	chr6:50339188-50409363_F	lincRNA:chr6:50339188-50409363 forward strand	1.11	0.000	0.034	1.03	0.000	0.012
Krt35	NM_016880	ref Mus musculus keratin 35 (Krt35), mRNA [NM_016880]	0.74	0.000	0.136	0.34	0.035	1.000
Olfr1273-ps	NM_146975	ref Mus musculus olfactory receptor 1273, pseudogene (Olfr1273-ps), mRNA [NM_146975]	0.54	0.000	0.160	0.47	0.004	0.538
Gm5182	XR_033425	ref PREDICTED: Mus musculus similar to acetyl-Coenzyme A carboxylase (LOC382567), misc RNA [XR_033425]	0.61	0.000	0.160	1.06	0.000	0.002
Rorc	NM_011281	ref Mus musculus RAR-related orphan receptor gamma (Rorc), mRNA [NM_011281]	0.62	0.001	0.163	0.62	0.000	0.031
B930042K01Rik	AK047256	gb Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:B930042K01 product:unclassifiable, full insert sequence. [AK047256]	0.51	0.001	0.171	0.36	0.005	0.606
ENSMUST00000103482	ENSMUST00000103482	ens predicted gene 7175 Gene [Source:MGI Symbol;Acc:MGI:3646379] [ENSMUST00000103482]	0.64	0.001	0.183	0.48	0.029	0.986
H2-T3-like	XM_622848	ref PREDICTED: Mus musculus MHC class I antigen, transcript variant 1 (H2-T3-like), mRNA [XM_622848]	0.59	0.001	0.183	0.41	0.001	0.231
A630055G03Rik	NM_001162932	ref Mus musculus RIKEN cDNA A630055G03 gene (A630055G03Rik), mRNA [NM_001162932]	0.60	0.001	0.208	0.46	0.031	1.000
Acaca	NM_133360	ref Mus musculus acetyl-Coenzyme A carboxylase alpha (Acaca), mRNA [NM_133360]	0.56	0.001	0.210	0.99	0.000	0.002
4933436C20Rik	NR_033641	ref Mus musculus RIKEN cDNA 4933436C20 gene (4933436C20Rik), non-coding RNA [NR_033641]	0.63	0.001	0.248	0.34	0.004	0.550
chr2:25182970-25188091_F	chr2:25182970-25188091_F	lincRNA:chr2:25182970-25188091 forward strand	1.00	0.001	0.248	0.78	0.007	0.672
Vmn1r69	NM_145842	ref Mus musculus vomeronasal 1 receptor 69 (Vmn1r69), mRNA [NM_145842]	1.04	0.002	0.248	0.62	0.037	1.000
Gm5091	XM_001474131	ref PREDICTED: Mus musculus hypothetical protein C330048F19 (C330048F19), mRNA [XM_001474131]	0.74	0.002	0.256	1.09	0.000	0.039

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
Col13a1	NM_007731	ref Mus musculus collagen, type XIII, alpha 1 (Col13a1), mRNA [NM_007731]	0.74	0.002	0.259	0.50	0.021	0.904
Kbtbd10	NM_001081087	ref Mus musculus kelch repeat and BTB (POZ) domain containing 10 (Kbtbd10), mRNA [NM_001081087]	0.47	0.002	0.262	0.22	0.011	0.770
ENSMUST00000111824	ENSMUST00000111824	ens CWC22 spliceosome-associated protein homolog (S. cerevisiae) Gene [Source:MGI (curated);Acc:MGI:2136773] [ENSMUST00000111824]	0.42	0.002	0.266	0.23	0.045	1.000
C80998	BG066927	gb H3048F03-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3048F03 3', mRNA sequence [BG066927]	0.57	0.002	0.269	0.41	0.005	0.621
Acaca	NM_133360	ref Mus musculus acetyl-Coenzyme A carboxylase alpha (Acaca), mRNA [NM_133360]	0.67	0.002	0.279	0.63	0.001	0.293
chr8:91471819-91551119_F	chr8:91471819-91551119_F	lincRNA:chr8:91471819-91551119 forward strand	0.95	0.002	0.281	0.82	0.008	0.694
Defb50	NM_199067	ref Mus musculus defensin beta 50 (Defb50), mRNA [NM_199067]	0.88	0.002	0.281	0.76	0.012	0.786
Olfr653	NM_147074	ref Mus musculus olfactory receptor 653 (Olfr653), mRNA [NM_147074]	0.48	0.002	0.281	0.41	0.004	0.538
Ces6	NM_133960	ref Mus musculus carboxylesterase 6 (Ces6), transcript variant 1, mRNA [NM_133960]	0.68	0.003	0.281	0.33	0.049	1.000
ENSMUST00000103534	ENSMUST00000103534	gb Mus musculus clone J558.15 immunoglobulin heavy chain variable region mRNA, partial cds. [AF303846]	0.81	0.003	0.290	0.56	0.045	1.000
Cdk5rap2	ENSMUST00000144099	ens CDK5 regulatory subunit associated protein 2 Gene [Source:MGI (curated);Acc:MGI:2384875] [ENSMUST00000144099]	0.93	0.004	0.308	0.67	0.024	0.957
Pou3f2	NM_008899	ref Mus musculus POU domain, class 3, transcription factor 2 (Pou3f2), mRNA [NM_008899]	0.46	0.004	0.315	0.35	0.034	1.000
Slc25a36	NM_138756	ref Mus musculus solute carrier family 25, member 36 (Slc25a36), mRNA [NM_138756]	0.46	0.004	0.316	0.44	0.000	0.144
chr17:15357376-15385701_R	chr17:15357376-15385701_R	lincRNA:chr17:15357376-15385701 reverse strand	0.65	0.004	0.323	0.48	0.046	1.000

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
Chst5	NM_019950	ref Mus musculus carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 5 (Chst5), mRNA [NM_019950]	0.62	0.004	0.323	0.58	0.008	0.696
Gnrhr	NM_010323	ref Mus musculus gonadotropin releasing hormone receptor (Gnrhr), mRNA [NM_010323]	1.24	0.004	0.324	0.90	0.014	0.821
9130015G15Rik	XM_001477673	ref PREDICTED: Mus musculus RIKEN cDNA 9130015G15 gene (9130015G15Rik), mRNA [XM_001477673]	0.62	0.004	0.325	0.53	0.011	0.781
Baiap3	NM_001163270	ref Mus musculus BAI1-associated protein 3 (Baiap3), mRNA [NM_001163270]	0.66	0.005	0.349	0.48	0.016	0.848
Slc17a7	NM_182993	ref Mus musculus solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7 (Slc17a7), mRNA [NM_182993]	0.36	0.005	0.349	0.27	0.010	0.762
ENSMUST00000097350	ENSMUST00000097350	ens a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 10 Gene [Source:MGI Symbol;Acc:MGI:2449112] [ENSMUST00000097350]	0.51	0.005	0.349	0.44	0.044	1.000
chr9:88333945-88342370_F	chr9:88333945-88342370_F	lincRNA:chr9:88333945-88342370 forward strand	0.70	0.005	0.353	0.62	0.037	1.000
LOC100045247	XM_001473923	ref PREDICTED: Mus musculus hypothetical protein LOC100045247 (LOC100045247), mRNA [XM_001473923]	0.79	0.006	0.366	0.61	0.050	1.000
LOC677565	XR_034928	ref PREDICTED: Mus musculus similar to neural visinin-like Ca2+-binding protein type 3 (LOC677565), misc RNA [XR_034928]	0.52	0.006	0.366	0.34	0.049	1.000
2010300C02Rik	NM_028096	ref Mus musculus RIKEN cDNA 2010300C02 gene (2010300C02Rik), mRNA [NM_028096]	0.65	0.006	0.366	0.69	0.000	0.041
chr8:19959345-20020379_R	chr8:19959345-20020379_R	lincRNA:chr8:19959345-20020379 reverse strand	0.54	0.006	0.366	0.57	0.013	0.808
A430054B03	AK040058	gb Mus musculus 0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A430054B03 product:unclassifiable, full insert sequence. [AK040058]	0.66	0.006	0.366	0.47	0.036	1.000
chr12:76759861-76760240_R	chr12:76759861-76760240_R	lincRNA:chr12:76759861-76760240 reverse strand	0.56	0.006	0.366	0.39	0.044	1.000

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
chr14:14688472-14747272_R	chr14:14688472-14747272_R	lincRNA:chr14:14688472-14747272 reverse strand	0.87	0.006	0.369	0.72	0.023	0.935
Gm5116	ENSMUST00000094572	ref PREDICTED: Mus musculus predicted gene, EG330689 (EG330689), mRNA [XM_286083]	0.46	0.006	0.369	0.42	0.009	0.731
Sema3a	NM_009152	ref Mus musculus sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (Sema3a), mRNA [NM_009152]	0.37	0.007	0.370	0.29	0.028	0.983
Agxt2	NM_001031851	ref Mus musculus alanine-glyoxylate aminotransferase 2 (Agxt2), nuclear gene encoding mitochondrial protein, mRNA [NM_001031851]	0.43	0.007	0.377	0.36	0.009	0.719
Gm5565	XM_485697	ref PREDICTED: Mus musculus hypothetical LOC433961 (LOC433961), mRNA [XM_485697]	0.52	0.007	0.377	0.33	0.033	1.000
chr8:128933150-128943375_F	chr8:128933150-128943375_F	lincRNA:chr8:128933150-128943375 forward strand	0.38	0.008	0.387	0.27	0.049	1.000
chr17:15357376-15385701_F	chr17:15357376-15385701_F	lincRNA:chr17:15357376-15385701 forward strand	0.65	0.008	0.391	0.46	0.046	1.000
chr9:67414463-67483185_F	chr9:67414463-67483185_F	lincRNA:chr9:67414463-67483185 forward strand	0.47	0.008	0.391	0.30	0.018	0.871
ENSMUST00000056756	ENSMUST00000056756	ens GATS protein-like 2 Gene [Source:MGI (curated);Acc:MGI:1933384] [ENSMUST00000016088]	0.71	0.008	0.391	0.28	0.003	0.481
Nhlrc4	NM_001039038	ref Mus musculus NHL repeat containing 4 (Nhlrc4), mRNA [NM_001039038]	0.52	0.009	0.395	0.38	0.030	0.998
Phkg1	NM_011079	ref Mus musculus phosphorylase kinase gamma 1 (Phkg1), mRNA [NM_011079]	0.35	0.009	0.397	0.30	0.035	1.000
chr7:88668435-88674440_F	chr7:88668435-88674440_F	lincRNA:chr7:88668435-88674440 forward strand	0.45	0.009	0.398	0.39	0.009	0.743
1810013D15Rik	CD766363	gb AGENCOURT_14718497 NIH_MGC_190 Mus musculus cDNA clone IMAGE:30501211 5', mRNA sequence [CD766363]	0.49	0.009	0.398	0.41	0.013	0.810
Pdlim7	NM_026131	ref Mus musculus PDZ and LIM domain 7 (Pdlim7), transcript variant c, mRNA [NM_026131]	0.38	0.009	0.398	0.60	0.000	0.050

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
chr8:111766396-111772271_F	chr8:111766396-111772271_F	lincRNA:chr8:111766396-111772271 forward strand	0.59	0.009	0.399	0.61	0.004	0.538
ENSMUST00000103523	ENSMUST00000103523	ens Ig heavy chain V region 23 Precursor [Source:UniProtKB/Swiss-Prot;Acc:P01748] [ENSMUST00000103523]	0.86	0.009	0.400	0.71	0.027	0.983
Rprml	NM_001033212	ref Mus musculus reprimin-like (Rprml), mRNA [NM_001033212]	0.49	0.010	0.401	0.59	0.001	0.311
chr2:75493715-75494227_R	chr2:75493715-75494227_R	lincRNA:chr2:75493715-75494227 reverse strand	0.47	0.010	0.401	0.40	0.025	0.963
Pou2f3	NM_011139	ref Mus musculus POU domain, class 2, transcription factor 3 (Pou2f3), mRNA [NM_011139]	0.44	0.010	0.403	0.32	0.030	0.998
LOC640869	XM_918061	ref PREDICTED: Mus musculus similar to Leo1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae) (LOC640869), mRNA [XM_918061]	0.38	0.010	0.403	0.34	0.030	0.998
chr2:27394711-27402186_F	chr2:27394711-27402186_F	lincRNA:chr2:27394711-27402186 forward strand	0.50	0.010	0.403	0.56	0.003	0.495
AI844685	DV038867	gb BalbClig05_01_E19.x1 FH BalbClig05 Mus musculus cDNA clone BalbClig05_01_E19 similar to Prostaglandin E receptor 3 (subtype EP3), mRNA sequence [DV038867]	0.59	0.010	0.405	0.46	0.017	0.854
XM_001479485	XM_001479485	ref PREDICTED: Mus musculus hypothetical protein LOC100043178 (LOC100043178), mRNA [XM_001479485]	0.46	0.010	0.406	0.45	0.014	0.821
LOC628062	AK081638	gb Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, clone:C130058A18 product:unclassifiable, full insert sequence. [AK081638]	0.63	0.011	0.406	0.68	0.010	0.764
LOC100045098	XR_031396	ref PREDICTED: Mus musculus similar to spermatogenesis-related gene 4 (LOC100045098), misc RNA [XR_031396]	0.64	0.011	0.407	0.52	0.029	0.986
Aacs	NM_030210	ref Mus musculus acetoacetyl-CoA synthetase (Aacs), mRNA [NM_030210]	0.41	0.011	0.407	0.67	0.000	0.024
ENSMUST00000098471	ENSMUST00000098471	ens ataxia telangiectasia and Rad3 related Gene [Source:MGI Symbol;Acc:MGI:108028] [ENSMUST00000098471]	0.47	0.011	0.407	0.42	0.011	0.766

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
chr3:93582250-93592950_F	chr3:93582250-93592950_F	lincRNA:chr3:93582250-93592950 forward strand	0.63	0.011	0.407	0.45	0.045	1.000
Etv2	NM_007959	ref Mus musculus ets variant gene 2 (Etv2), mRNA [NM_007959]	0.40	0.012	0.408	0.48	0.025	0.960
Olf223	NM_146429	ref Mus musculus olfactory receptor 223 (Olf223), mRNA [NM_146429]	0.51	0.012	0.408	0.59	0.020	0.895
Acpl2	NM_153420	ref Mus musculus acid phosphatase-like 2 (Acpl2), mRNA [NM_153420]	0.31	0.012	0.410	0.20	0.040	1.000
2310004N24Rik	NM_027107	ref Mus musculus RIKEN cDNA 2310004N24 gene (2310004N24Rik), mRNA [NM_027107]	0.44	0.012	0.411	0.42	0.007	0.672
Snrpn	NM_013670	ref Mus musculus small nuclear ribonucleoprotein N (Snrpn), transcript variant 1, mRNA [NM_013670]	0.75	0.013	0.412	0.69	0.001	0.195
chr3:68867193-68876128_F	chr3:68867193-68876128_F	lincRNA:chr3:68867193-68876128 forward strand	0.61	0.013	0.412	0.57	0.043	1.000
chr8:122728333-122752130_R	chr8:122728333-122752130_R	lincRNA:chr8:122728333-122752130 reverse strand	0.36	0.013	0.412	0.26	0.037	1.000
ENSMUST00000086681	ENSMUST00000086681	ens cadherin 7, type 2 Gene [Source:MGI (curated);Acc:MGI:2442792] [ENSMUST00000086681]	0.71	0.013	0.412	0.44	0.040	1.000
ENSMUST00000105620	ENSMUST00000105620	ens RIKEN cDNA C030017K20 gene Gene [Source:MGI Symbol;Acc:MGI:2686516] [ENSMUST00000105620]	0.49	0.013	0.412	0.41	0.024	0.957
Gm4566	NR_028023	ref Mus musculus predicted gene 4566 (Gm4566), non-coding RNA [NR_028023]	0.65	0.013	0.412	0.57	0.031	1.000
Jakmip2	NM_001163637	ref Mus musculus janus kinase and microtubule interacting protein 2 (Jakmip2), mRNA [NM_001163637]	0.61	0.013	0.412	0.44	0.034	1.000
Fam170a	NM_001004061	ref Mus musculus family with sequence similarity 170, member A (Fam170a), mRNA [NM_001004061]	0.65	0.013	0.412	0.68	0.027	0.983
Lyg1	NM_027111	ref Mus musculus lysozyme G-like 1 (Lyg1), mRNA [NM_027111]	0.55	0.014	0.414	0.47	0.029	0.986
chr9:27148989-27155714_R	chr9:27148989-27155714_R	lincRNA:chr9:27148989-27155714 reverse strand	0.73	0.015	0.419	0.62	0.031	1.000
chr4:135138014-135174889_F	chr4:135138014-135174889_F	lincRNA:chr4:135138014-135174889 forward strand	0.67	0.015	0.419	0.50	0.029	0.988

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
Snrpn	NM_001082962	ref Mus musculus small nuclear ribonucleoprotein N (Snrpn), transcript variant 3, mRNA [NM_001082962]	0.69	0.015	0.423	0.70	0.001	0.229
AU017674	CK334688	gb H3092H12-5 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3092H12 5', mRNA sequence [CK334688]	0.34	0.016	0.425	0.36	0.013	0.808
chr8:49865327-49865639_R	chr8:49865327-49865639_R	lincRNA:chr8:49865327-49865639 reverse strand	0.40	0.016	0.426	0.33	0.034	1.000
2310043D23Rik	AK009774	gb Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310043D23 product:unclassifiable, full insert sequence. [AK009774]	0.50	0.016	0.426	0.44	0.028	0.983
chr8:24329249-24329541_F	chr8:24329249-24329541_F	lincRNA:chr8:24329249-24329541 forward strand	0.40	0.018	0.435	0.48	0.002	0.343
chr2:158169020-158191295_F	chr2:158169020-158191295_F	lincRNA:chr2:158169020-158191295 forward strand	0.39	0.018	0.435	0.45	0.010	0.747
Olfr922	NM_146781	ref Mus musculus olfactory receptor 922 (Olfr922), mRNA [NM_146781]	0.44	0.018	0.436	0.49	0.007	0.686
Phkg1	NM_011079	ref Mus musculus phosphorylase kinase gamma 1 (Phkg1), mRNA [NM_011079]	0.38	0.018	0.437	0.43	0.002	0.345
Klhl31	NM_172925	ref Mus musculus kelch-like 31 (Drosophila) (Klhl31), mRNA [NM_172925]	0.27	0.018	0.437	0.29	0.004	0.538
chrX:50087925-50101700_R	chrX:50087925-50101700_R	lincRNA:chrX:50087925-50101700 reverse strand	0.43	0.019	0.437	0.35	0.032	1.000
Kctd6	NM_027782	ref Mus musculus potassium channel tetramerisation domain containing 6 (Kctd6), mRNA [NM_027782]	0.42	0.019	0.437	0.25	0.009	0.720
Gm10451	NR_028520	ref Mus musculus predicted gene 10451 (Gm10451), non-coding RNA [NR_028520]	0.35	0.019	0.439	0.31	0.034	1.000
ENSMUST00000109244	ENSMUST00000109244	ref PREDICTED: Mus musculus cell division cycle 20 homolog B (S. cerevisiae) (Cdc20b), mRNA [XM_138861]	0.55	0.019	0.439	0.49	0.045	1.000
chr17:88466300-88495175_R	chr17:88466300-88495175_R	lincRNA:chr17:88466300-88495175 reverse strand	0.60	0.019	0.439	0.55	0.019	0.881

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
1110038D17Rik	NM_175133	ref Mus musculus RIKEN cDNA 1110038D17 gene (1110038D17Rik), mRNA [NM_175133]	0.29	0.020	0.444	0.21	0.011	0.770
Irx2	NM_010574	ref Mus musculus Iroquois related homeobox 2 (Drosophila) (Irx2), mRNA [NM_010574]	0.77	0.020	0.445	0.92	0.000	0.119
chr15:73227424-73257474_R	chr15:73227424-73257474_R	lincRNA:chr15:73227424-73257474 reverse strand	0.40	0.020	0.447	0.47	0.000	0.156
chr12:88216358-88221647_F	chr12:88216358-88221647_F	lincRNA:chr12:88216358-88221647 forward strand	0.38	0.021	0.447	0.43	0.039	1.000
Gm15303	XR_001809	ref PREDICTED: Mus musculus predicted gene, EG665969 (EG665969), misc RNA [XR_001809]	0.78	0.021	0.449	0.68	0.042	1.000
Gm16042	XR_031071	ref PREDICTED: Mus musculus similar to F-box protein 5 (LOC100044855), misc RNA [XR_031071]	0.75	0.021	0.450	0.72	0.019	0.881
Gm6309	XM_886734	ref PREDICTED: Mus musculus predicted gene, EG622306 (EG622306), mRNA [XM_886734]	0.53	0.021	0.450	0.55	0.014	0.825
Aqp4	NM_009700	ref Mus musculus aquaporin 4 (Aqp4), mRNA [NM_009700]	0.40	0.022	0.450	0.52	0.010	0.743
chr4:126710640-126721240_R	chr4:126710640-126721240_R	lincRNA:chr4:126710640-126721240 reverse strand	0.73	0.022	0.450	0.72	0.048	1.000
Olfr823	NM_146673	ref Mus musculus olfactory receptor 823 (Olfr823), mRNA [NM_146673]	0.62	0.022	0.452	0.57	0.026	0.973
chr13:70745306-70837331_F	chr13:70745306-70837331_F	lincRNA:chr13:70745306-70837331 forward strand	0.48	0.022	0.452	0.52	0.004	0.574
chr3:26982754-26983352_R	chr3:26982754-26983352_R	lincRNA:chr3:26982754-26983352 reverse strand	0.58	0.022	0.452	0.68	0.009	0.712
Pom121	NM_148932	ref Mus musculus nuclear pore membrane protein 121 (Pom121), mRNA [NM_148932]	0.28	0.022	0.453	0.24	0.020	0.897
chr4:147156425-147183949_R	chr4:147156425-147183949_R	lincRNA:chr4:147156425-147183949 reverse strand	0.47	0.023	0.453	0.62	0.023	0.935
Tcfec	NM_031198	ref Mus musculus transcription factor EC (Tcfec), mRNA [NM_031198]	0.36	0.023	0.453	0.35	0.007	0.686
Ch25h	NM_009890	ref Mus musculus cholesterol 25-hydroxylase (Ch25h), mRNA [NM_009890]	0.63	0.023	0.453	0.44	0.027	0.982

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
ENSMUST00000071867	ENSMUST00000071867	ens vomeronasal 2, receptor 66 Gene [Source:MGI (curated);Acc:MGI:3588220] [ENSMUST00000071867]	0.84	0.023	0.455	0.76	0.047	1.000
LOC673387	XM_001476321	ref PREDICTED: Mus musculus similar to olfactory receptor Olfr471 (LOC673387), mRNA [XM_001476321]	0.81	0.023	0.456	0.59	0.049	1.000
Col25a1	ENSMUST00000106353	ens collagen, type XXV, alpha 1 Gene [Source:MGI (curated);Acc:MGI:1924268] [ENSMUST00000106353]	0.49	0.024	0.459	0.58	0.024	0.957
chr2:157236070-157249445_R	chr2:157236070-157249445_R	lincRNA:chr2:157236070-157249445 reverse strand	1.00	0.024	0.459	0.90	0.044	1.000
Olfr1296-ps1	XM_001002254	ref PREDICTED: Mus musculus similar to olfactory receptor MOR248-10 (LOC668822), mRNA [XM_001002254]	0.45	0.024	0.459	0.42	0.030	0.994
chr13:28551902-28975446_R	chr13:28551902-28975446_R	lincRNA:chr13:28551902-28975446 reverse strand	0.43	0.024	0.459	0.41	0.038	1.000
Cxadr	NM_009988	ref Mus musculus coxsackie virus and adenovirus receptor (Cxadr), transcript variant 2, mRNA [NM_009988]	0.45	0.025	0.464	0.27	0.039	1.000
Tox	NM_145711	ref Mus musculus thymocyte selection-associated high mobility group box (Tox), mRNA [NM_145711]	0.58	0.025	0.467	0.25	0.037	1.000
Irxf1	NM_010573	ref Mus musculus Iroquois related homeobox 1 (Drosophila) (Irxf1), mRNA [NM_010573]	0.67	0.026	0.468	0.58	0.001	0.244
Caps2	NM_178278	ref Mus musculus calcyphosphine 2 (Caps2), mRNA [NM_178278]	0.66	0.027	0.471	0.62	0.032	1.000
Eif4e3	NM_025829	ref Mus musculus eukaryotic translation initiation factor 4E member 3 (Eif4e3), mRNA [NM_025829]	0.24	0.027	0.472	0.26	0.011	0.770
Palmd	NM_023245	ref Mus musculus palmdelphin (Palmd), mRNA [NM_023245]	0.26	0.027	0.472	0.23	0.014	0.825
LOC666181	XR_030614	ref PREDICTED: Mus musculus similar to spermiogenesis specific transcript on the Y 1 (LOC666181), misc RNA [XR_030614]	0.42	0.027	0.472	0.41	0.023	0.943
chr16:8748982-8757165_R	chr16:8748982-8757165_R	lincRNA:chr16:8748982-8757165 reverse strand	0.61	0.027	0.472	0.55	0.029	0.986
chr2:104702675-104736600_R	chr2:104702675-104736600_R	lincRNA:chr2:104702675-104736600 reverse strand	0.56	0.028	0.474	0.63	0.028	0.985

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
Ttc25	NM_028918	ref Mus musculus tetratricopeptide repeat domain 25 (Ttc25), mRNA [NM_028918]	0.38	0.028	0.476	0.83	0.001	0.327
4930542D17Rik	AK016020	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930542D17 product:hypothetical protein, full insert sequence. [AK016020]	0.73	0.028	0.476	0.73	0.035	1.000
ENSMUST00000101619	ENSMUST00000101619	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UEV0] [ENSMUST00000101619]	0.38	0.029	0.477	0.32	0.022	0.929
LOC100045846	XM_001475017	ref PREDICTED: Mus musculus similar to CDNA sequence AK129341 (LOC100045846), mRNA [XM_001475017]	0.45	0.029	0.477	0.51	0.003	0.503
ENSMUST00000053799	ENSMUST00000053799	ens RIKEN cDNA 9330101J02 gene Gene [Source:MGI Symbol;Acc:MGI:2444387] [ENSMUST00000053799]	0.71	0.029	0.477	0.72	0.033	1.000
chr6:140557582-140557917_F	chr6:140557582-140557917_F	lincRNA:chr6:140557582-140557917 forward strand	0.37	0.030	0.477	0.32	0.025	0.960
Gm3293	XM_001476247	ref PREDICTED: Mus musculus similar to Ubtff protein (LOC100041366), mRNA [XM_001476247]	0.45	0.030	0.479	0.53	0.008	0.708
2310001K24Rik	NR_028122	ref Mus musculus RIKEN cDNA 2310001K24 gene (2310001K24Rik), non-coding RNA [NR_028122]	0.42	0.030	0.479	0.26	0.019	0.882
Zfp523	NM_172617	ref Mus musculus zinc finger protein 523 (Zfp523), mRNA [NM_172617]	0.27	0.030	0.479	0.23	0.020	0.885
4930455C13Rik	AK015459	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930455C13 product:unclassifiable, full insert sequence. [AK015459]	0.48	0.031	0.480	0.44	0.038	1.000
chr4:11049325-11072075_R	chr4:11049325-11072075_R	lincRNA:chr4:11049325-11072075 reverse strand	0.36	0.031	0.483	0.47	0.006	0.628
AI132487	NM_001012310	ref Mus musculus expressed sequence AI132487 (AI132487), mRNA [NM_001012310]	0.31	0.031	0.483	0.66	0.000	0.008
Ddhd2	NM_028102	ref Mus musculus DDHD domain containing 2 (Ddhd2), mRNA [NM_028102]	0.25	0.032	0.485	0.20	0.026	0.975
Gm6725	XM_891592	ref PREDICTED: Mus musculus predicted gene, EG626970 (EG626970), mRNA [XM_891592]	0.61	0.033	0.489	0.76	0.012	0.793

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
Gbp8	NM_029509	ref Mus musculus guanylate-binding protein 8 (Gbp8), mRNA [NM_029509]	0.53	0.033	0.489	0.67	0.013	0.794
Onecut3	NM_139226	ref Mus musculus one cut domain, family member 3 (Onecut3), mRNA [NM_139226]	0.52	0.033	0.490	0.52	0.017	0.854
LOC100040235	XM_001474135	ref PREDICTED: Mus musculus similar to spermiogenesis specific transcript on the Y 1 (LOC100040235), mRNA [XM_001474135]	0.37	0.034	0.491	0.35	0.034	1.000
PrI8a2	NM_010088	ref Mus musculus prolactin family 8, subfamily a, member 2 (PrI8a2), mRNA [NM_010088]	0.57	0.034	0.493	0.66	0.013	0.808
Gm14460	XR_032600	ref PREDICTED: Mus musculus similar to RPL10L protein (LOC383717), misc RNA [XR_032600]	0.80	0.034	0.493	0.80	0.034	1.000
ENSMUST00000065159	ENSMUST00000065159	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q8BT27] [ENSMUST00000065159]	0.33	0.034	0.493	0.28	0.006	0.654
chrX:132445535-132448486_F	chrX:132445535-132448486_F	lincRNA:chrX:132445535-132448486 forward strand	0.60	0.034	0.493	0.71	0.015	0.827
Rp1l1	NM_146246	ref Mus musculus retinitis pigmentosa 1 homolog (human)-like 1 (Rp1l1), mRNA [NM_146246]	0.49	0.035	0.493	0.47	0.049	1.000
chr19:7458725-7474825_F	chr19:7458725-7474825_F	lincRNA:chr19:7458725-7474825 forward strand	0.31	0.035	0.494	0.21	0.022	0.930
Cyp2b23	NM_001081148	ref Mus musculus cytochrome P450, family 2, subfamily b, polypeptide 23 (Cyp2b23), mRNA [NM_001081148]	0.48	0.035	0.495	0.52	0.042	1.000
Kdm4dl	XM_911001	ref PREDICTED: Mus musculus predicted gene, EG547035 (EG547035), mRNA [XM_911001]	0.41	0.035	0.495	0.47	0.013	0.808
LOC100045381	XM_001474708	ref PREDICTED: Mus musculus hypothetical protein LOC100045381 (LOC100045381), mRNA [XM_001474708]	0.85	0.036	0.495	1.08	0.009	0.718
4930413F20Rik	AK015129	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930413F20 product:unclassifiable, full insert sequence. [AK015129]	0.97	0.036	0.495	1.08	0.035	1.000
2010111I01Rik	ENSMUST00000021911	ens RIKEN cDNA 2010111I01 gene Gene [Source:MGI Symbol;Acc:MGI:1919311] [ENSMUST00000021911]	0.27	0.036	0.495	0.24	0.023	0.943
Muc3	ENSMUST00000041226	ens mucin 3, intestinal Gene [Source:MGI Symbol;Acc:MGI:1203527] [ENSMUST00000041226]	0.61	0.036	0.495	0.78	0.013	0.808

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
Gm1587	NM_001033440	ref Mus musculus predicted gene 1587 (Gm1587), mRNA [NM_001033440]	0.49	0.036	0.495	0.42	0.040	1.000
Olfr622	NM_147083	ref Mus musculus olfactory receptor 622 (Olfr622), mRNA [NM_147083]	0.58	0.036	0.495	0.55	0.036	1.000
chr10:92798725-92811622_F	chr10:92798725-92811622_F	lincRNA:chr10:92798725-92811622 forward strand	0.33	0.038	0.499	0.32	0.034	1.000
chr5:122994397-122995017_R	chr5:122994397-122995017_R	lincRNA:chr5:122994397-122995017 reverse strand	0.40	0.038	0.499	0.43	0.008	0.694
Zfp93	NM_009567	ref Mus musculus zinc finger protein 93 (Zfp93), mRNA [NM_009567]	0.48	0.038	0.499	0.51	0.027	0.983
chr3:41158056-41173053_F	chr3:41158056-41173053_F	lincRNA:chr3:41158056-41173053 forward strand	0.37	0.039	0.501	0.42	0.035	1.000
LOC100047087	XM_001477933	ref PREDICTED: Mus musculus hypothetical protein LOC100047087 (LOC100047087), mRNA [XM_001477933]	0.38	0.040	0.502	0.52	0.027	0.981
chr11:68200716-68214458_F	chr11:68200716-68214458_F	lincRNA:chr11:68200716-68214458 forward strand	0.33	0.040	0.504	0.38	0.038	1.000
ENSMUST00000028141	ENSMUST00000028141	ens RIKEN cDNA 6530402F18 gene Gene [Source:MGI Symbol;Acc:MGI:1923470] [ENSMUST00000028141]	0.43	0.040	0.504	0.51	0.049	1.000
LOC100045031	XM_001473537	ref PREDICTED: Mus musculus similar to transcription elongation factor A (SII)-like 8 (LOC100045031), mRNA [XM_001473537]	0.54	0.040	0.504	0.54	0.026	0.972
chr4:119406384-119407856_F	chr4:119406384-119407856_F	lincRNA:chr4:119406384-119407856 forward strand	0.34	0.041	0.505	0.33	0.019	0.882
chr13:83867711-83878140_F	chr13:83867711-83878140_F	lincRNA:chr13:83867711-83878140 forward strand	0.49	0.041	0.505	0.65	0.007	0.679
Gm7546	XM_975528	ref PREDICTED: Mus musculus predicted gene, EG665234 (EG665234), mRNA [XM_975528]	0.76	0.041	0.506	0.74	0.041	1.000
chr6:39205913-39248468_R	chr6:39205913-39248468_R	lincRNA:chr6:39205913-39248468 reverse strand	0.32	0.042	0.508	0.38	0.011	0.766

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
Slco1a6	NM_023718	ref Mus musculus solute carrier organic anion transporter family, member 1a6 (Slco1a6), mRNA [NM_023718]	1.06	0.043	0.510	1.03	0.044	1.000
chr11:6421951-6429173_R	chr11:6421951-6429173_R	lincRNA:chr11:6421951-6429173 reverse strand	0.70	0.043	0.510	0.95	0.011	0.766
Klk6	NM_011177	ref Mus musculus kallikrein related-peptidase 6 (Klk6), transcript variant 1, mRNA [NM_011177]	0.22	0.044	0.512	0.33	0.016	0.848
3632451O06Rik	NM_026142	ref Mus musculus RIKEN cDNA 3632451O06 gene (3632451O06Rik), mRNA [NM_026142]	0.31	0.044	0.512	0.36	0.001	0.263
Zfp187	NM_001013786	ref Mus musculus zinc finger protein 187 (Zfp187), mRNA [NM_001013786]	0.33	0.044	0.513	0.30	0.040	1.000
HOTAIR	HOTAIR	lincRNA:chr15:102774492-102778161 reverse strand	0.61	0.044	0.513	0.78	0.016	0.848
4930473D10Rik	XM_001480387	ref PREDICTED: Mus musculus RIKEN cDNA 4930473D10 gene (4930473D10Rik), mRNA [XM_001480387]	0.44	0.045	0.513	0.46	0.042	1.000
ENSMUST00000103468	ENSMUST00000103468	gb Mus musculus (clone 16-P) IgM chain mRNA, VDNJ3 region. [M26464]	0.60	0.046	0.513	0.56	0.011	0.774
Rnf10	NM_016698	ref Mus musculus ring finger protein 10 (Rnf10), mRNA [NM_016698]	0.25	0.046	0.513	0.26	0.006	0.651
chr3:35782698-35789748_F	chr3:35782698-35789748_F	lincRNA:chr3:35782698-35789748 forward strand	0.85	0.046	0.513	0.97	0.045	1.000
Wisp3	NM_001127376	ref Mus musculus WNT1 inducible signaling pathway protein 3 (Wisp3), mRNA [NM_001127376]	0.28	0.047	0.514	0.37	0.012	0.793
chr13:94180737-94182912_F	chr13:94180737-94182912_F	lincRNA:chr13:94180737-94182912 forward strand	0.33	0.047	0.514	0.26	0.012	0.793
Grif1	NM_172739	ref Mus musculus glucocorticoid receptor DNA binding factor 1 (Grif1), mRNA [NM_172739]	0.26	0.047	0.515	0.22	0.048	1.000
Gpi1	NM_008155	ref Mus musculus glucose phosphate isomerase 1 (Gpi1), mRNA [NM_008155]	0.19	0.048	0.517	0.19	0.012	0.786
4930404A10Rik	NM_029105	ref Mus musculus RIKEN cDNA 4930404A10 gene (4930404A10Rik), mRNA [NM_029105]	0.47	0.049	0.519	0.42	0.048	1.000

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
Pias3	NM_018812	ref Mus musculus protein inhibitor of activated STAT 3 (Pias3), transcript variant 2, mRNA [NM_018812]	0.40	0.049	0.519	0.40	0.008	0.708
Gfra2	NM_008115	ref Mus musculus glial cell line derived neurotrophic factor family receptor alpha 2 (Gfra2), mRNA [NM_008115]	-0.50	0.028	0.476	0.23	0.041	1.000
Mboat1	NM_153546	ref Mus musculus membrane bound O-acyltransferase domain containing 1 (Mboat1), mRNA [NM_153546]	-0.74	0.036	0.495	0.20	0.026	0.973
Dbh	NM_138942	ref Mus musculus dopamine beta hydroxylase (Dbh), mRNA [NM_138942]	-0.99	0.041	0.505	0.48	0.001	0.259
Ap1s1	NM_007457	ref Mus musculus adaptor protein complex AP-1, sigma 1 (Ap1s1), mRNA [NM_007457]	-0.58	0.000	0.090	-0.34	0.002	0.377
Ap1s1	NM_007457	ref Mus musculus adaptor protein complex AP-1, sigma 1 (Ap1s1), mRNA [NM_007457]	-0.55	0.000	0.123	-0.32	0.001	0.311
Cd160	NM_018767	ref Mus musculus CD160 antigen (Cd160), transcript variant 2, mRNA [NM_018767]	-0.56	0.001	0.167	-0.47	0.016	0.854
chr12:8401014-8407169_F	chr12:8401014-8407169_F	lincRNA:chr12:8401014-8407169 forward strand	-1.02	0.001	0.169	-0.44	0.025	0.966
LOC640020	XM_916728	ref PREDICTED: Mus musculus similar to intestinal mucin (LOC640020), mRNA [XM_916728]	-0.74	0.001	0.227	-0.77	0.001	0.227
2200002J24Rik	NM_026961	ref Mus musculus RIKEN cDNA 2200002J24 gene (2200002J24Rik), mRNA [NM_026961]	-0.99	0.001	0.234	-0.44	0.037	1.000
Gck	NM_010292	ref Mus musculus glucokinase (Gck), mRNA [NM_010292]	-0.57	0.001	0.246	-0.29	0.023	0.946
ENSMUST00000054384	ENSMUST00000054384	ens tripartite motif-containing 56 Gene [Source:MGI (curated);Acc:MGI:2685298] [ENSMUST00000054384]	-0.63	0.002	0.262	-0.65	0.000	0.022
Trim56	NM_201373	ref Mus musculus tripartite motif-containing 56 (Trim56), mRNA [NM_201373]	-0.51	0.002	0.279	-0.61	0.000	0.039
Hpn	NM_001110252	ref Mus musculus hepsin (Hpn), transcript variant 1, mRNA [NM_001110252]	-0.51	0.003	0.281	-0.57	0.000	0.188
Klra23	NM_024470	ref Mus musculus killer cell lectin-like receptor subfamily A, member 23 (Klra23), mRNA [NM_024470]	-0.95	0.003	0.281	-0.59	0.015	0.832

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
Ttc7	NM_028639	ref Mus musculus tetratricopeptide repeat domain 7 (Ttc7), mRNA [NM_028639]	-0.51	0.003	0.281	-0.19	0.025	0.966
chr10:5950116-5958250_F	chr10:5950116-5958250_F	lincRNA:chr10:5950116-5958250 forward strand	-0.64	0.003	0.290	-0.43	0.034	1.000
chr8:113968152-113973727_R	chr8:113968152-113973727_R	lincRNA:chr8:113968152-113973727 reverse strand	-0.46	0.004	0.308	-0.25	0.049	1.000
ENSMUST00000072180	ENSMUST00000072180	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3USB9] [ENSMUST00000072180]	-0.73	0.004	0.308	-0.57	0.008	0.708
Bmper	NM_028472	ref Mus musculus BMP-binding endothelial regulator (Bmper), mRNA [NM_028472]	-0.35	0.004	0.316	-0.26	0.005	0.578
Hint3	NM_025798	ref Mus musculus histidine triad nucleotide binding protein 3 (Hint3), mRNA [NM_025798]	-0.38	0.004	0.330	-0.32	0.007	0.675
chr6:115468025-115489250_R	chr6:115468025-115489250_R	lincRNA:chr6:115468025-115489250 reverse strand	-0.82	0.005	0.341	-0.64	0.022	0.935
chrX:120353972-120361170_R	chrX:120353972-120361170_R	lincRNA:chrX:120353972-120361170 reverse strand	-0.67	0.005	0.343	-0.85	0.050	1.000
Xist	NR_001463	ref Mus musculus inactive X specific transcripts (Xist), transcript variant 1, non-coding RNA [NR_001463]	-0.67	0.005	0.354	-0.57	0.001	0.256
chr5:33773842-33942967_R	chr5:33773842-33942967_R	lincRNA:chr5:33773842-33942967 reverse strand	-0.55	0.005	0.354	-0.37	0.041	1.000
Cst6	NM_028623	ref Mus musculus cystatin E/M (Cst6), mRNA [NM_028623]	-0.51	0.005	0.354	-0.59	0.000	0.023
Gm3181	XM_001476516	ref PREDICTED: Mus musculus hypothetical protein LOC100041175 (LOC100041175), mRNA [XM_001476516]	-0.51	0.006	0.356	-0.40	0.018	0.865
chr6:108157117-108162492_R	chr6:108157117-108162492_R	lincRNA:chr6:108157117-108162492 reverse strand	-0.47	0.006	0.366	-0.46	0.013	0.799
chr3:37659958-37665945_F	chr3:37659958-37665945_F	lincRNA:chr3:37659958-37665945 forward strand	-1.05	0.006	0.369	-0.58	0.040	1.000
chr11:6748267-6818192_F	chr11:6748267-6818192_F	lincRNA:chr11:6748267-6818192 forward strand	-0.70	0.007	0.370	-0.63	0.015	0.831

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
chr3:84609788-84618062_F	chr3:84609788-84618062_F	lincRNA:chr3:84609788-84618062 forward strand	-0.51	0.007	0.370	-0.36	0.048	1.000
Gm3346	XM_001477605	ref PREDICTED: Mus musculus hypothetical protein LOC100041451, transcript variant 1 (LOC100041451), mRNA [XM_001477605]	-0.48	0.007	0.377	-0.29	0.012	0.793
Gm5821	XR_002016	ref PREDICTED: Mus musculus predicted gene, EG545257 (EG545257), misc RNA [XR_002016]	-0.50	0.007	0.380	-0.39	0.046	1.000
Slc9a10	NM_198106	ref Mus musculus solute carrier family 9, member 10 (Slc9a10), mRNA [NM_198106]	-0.70	0.007	0.381	-0.61	0.035	1.000
Fbxl21	NM_178674	ref Mus musculus F-box and leucine-rich repeat protein 21 (Fbxl21), mRNA [NM_178674]	-0.68	0.007	0.384	-0.43	0.014	0.820
Slc24a3	NM_053195	ref Mus musculus solute carrier family 24 (sodium/potassium/calcium exchanger), member 3 (Slc24a3), mRNA [NM_053195]	-0.38	0.007	0.384	-0.17	0.037	1.000
Doc2g	NM_021791	ref Mus musculus double C2, gamma (Doc2g), mRNA [NM_021791]	-0.57	0.008	0.391	-0.50	0.002	0.404
chr14:77511189-77522852_R	chr14:77511189-77522852_R	lincRNA:chr14:77511189-77522852 reverse strand	-0.67	0.008	0.392	-0.61	0.050	1.000
Rcor2	NM_054048	ref Mus musculus REST corepressor 2 (Rcor2), mRNA [NM_054048]	-0.51	0.009	0.394	-0.32	0.011	0.770
Gm3798	XM_001478340	ref PREDICTED: Mus musculus hypothetical protein LOC100042341 (LOC100042341), mRNA [XM_001478340]	-0.59	0.009	0.394	-0.45	0.012	0.793
ENSMUST00000070754	ENSMUST00000070754	ens family with sequence similarity 154, member A Gene [Source:MGI (curated);Acc:MGI:1923061] [ENSMUST00000070754]	-1.44	0.009	0.394	-1.01	0.028	0.983
chr8:67213300-67271700_F	chr8:67213300-67271700_F	lincRNA:chr8:67213300-67271700 forward strand	-0.63	0.009	0.398	-0.52	0.009	0.731
chr14:33923944-34003394_R	chr14:33923944-34003394_R	lincRNA:chr14:33923944-34003394 reverse strand	-1.70	0.009	0.398	-0.55	0.048	1.000
Palb2	NM_001081238	ref Mus musculus partner and localizer of BRCA2 (Palb2), mRNA [NM_001081238]	-0.35	0.010	0.404	-0.33	0.029	0.986

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
Gm14700	XM_001474363	ref PREDICTED: Mus musculus hypothetical protein LOC100040255 (LOC100040255), mRNA [XM_001474363]	-0.43	0.010	0.405	-0.38	0.002	0.357
Lce3f	NM_001018079	ref Mus musculus late cornified envelope 3F (Lce3f), mRNA [NM_001018079]	-0.82	0.011	0.406	-0.54	0.034	1.000
Olf66	NM_013618	ref Mus musculus olfactory receptor 66 (Olf66), mRNA [NM_013618]	-0.80	0.011	0.406	-0.33	0.036	1.000
A430033K04Rik	NM_183025	ref Mus musculus RIKEN cDNA A430033K04 gene (A430033K04Rik), mRNA [NM_183025]	-0.40	0.011	0.407	-0.39	0.039	1.000
AW549877	NM_145930	ref Mus musculus expressed sequence AW549877 (AW549877), mRNA [NM_145930]	-0.30	0.011	0.407	-0.31	0.007	0.664
Dhdds	NM_026144	ref Mus musculus dehydrodolichyl diphosphate synthase (Dhdds), mRNA [NM_026144]	-0.28	0.012	0.408	-0.33	0.001	0.263
LOC100045752	XM_001475359	ref PREDICTED: Mus musculus hypothetical protein LOC100045752 (LOC100045752), mRNA [XM_001475359]	-0.48	0.012	0.408	-0.67	0.000	0.090
chr15:73227424-73257474_F	chr15:73227424-73257474_F	lincRNA:chr15:73227424-73257474 forward strand	-0.35	0.012	0.410	-0.31	0.003	0.503
Zar1	NM_174877	ref Mus musculus zygote arrest 1 (Zar1), mRNA [NM_174877]	-0.63	0.012	0.410	-0.64	0.027	0.983
Mybpc2	NM_146189	ref Mus musculus myosin binding protein C, fast-type (Mybpc2), transcript variant 2, mRNA [NM_146189]	-0.39	0.013	0.412	-0.36	0.028	0.983
Gm3390	XM_001476541	ref PREDICTED: Mus musculus similar to Ubtg protein (LOC100041529), mRNA [XM_001476541]	-0.63	0.013	0.412	-0.61	0.048	1.000
Psd4	NM_177611	ref Mus musculus pleckstrin and Sec7 domain containing 4 (Psd4), mRNA [NM_177611]	-0.37	0.014	0.414	-0.49	0.003	0.488
Tecpr1	NM_027410	ref Mus musculus tectonin beta-propeller repeat containing 1 (Tecpr1), mRNA [NM_027410]	-0.29	0.014	0.415	-0.29	0.004	0.560
Hist1h2bb	NM_175664	ref Mus musculus histone cluster 1, H2bb (Hist1h2bb), mRNA [NM_175664]	-0.32	0.015	0.421	-0.47	0.001	0.205
Glud1	NM_008133	ref Mus musculus glutamate dehydrogenase 1 (Glud1), nuclear gene encoding mitochondrial protein, mRNA [NM_008133]	-0.31	0.015	0.422	-0.34	0.000	0.154

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
Scd3	NM_024450	ref Mus musculus stearyl-coenzyme A desaturase 3 (Scd3), mRNA [NM_024450]	-0.36	0.015	0.423	-0.23	0.035	1.000
Casp1	NM_009807	ref Mus musculus caspase 1 (Casp1), mRNA [NM_009807]	-0.58	0.016	0.426	-0.20	0.036	1.000
chr8:19759348-19759959_R	chr8:19759348-19759959_R	lincRNA:chr8:19759348-19759959 reverse strand	-0.59	0.016	0.428	-0.68	0.004	0.541
Bex1	NM_009052	ref Mus musculus brain expressed gene 1 (Bex1), mRNA [NM_009052]	-0.94	0.017	0.429	-0.91	0.000	0.016
Fam179a	NM_177087	ref Mus musculus family with sequence similarity 179, member A (Fam179a), mRNA [NM_177087]	-0.34	0.017	0.435	-0.48	0.002	0.385
Gm501	XM_146277	ref PREDICTED: Mus musculus gene model 501, (NCBI) (Gm501), mRNA [XM_146277]	-0.51	0.018	0.435	-0.37	0.016	0.848
chr6:122341396-122342710_F	chr6:122341396-122342710_F	lincRNA:chr6:122341396-122342710 forward strand	-0.78	0.019	0.437	-0.63	0.005	0.602
1700025K23Rik	NM_183254	ref Mus musculus RIKEN cDNA 1700025K23 gene (1700025K23Rik), mRNA [NM_183254]	-0.26	0.019	0.441	-0.23	0.019	0.881
Ccl21a	NM_011124	ref Mus musculus chemokine (C-C motif) ligand 21A (Ccl21a), mRNA [NM_011124]	-0.64	0.019	0.441	-0.54	0.032	1.000
Lmo2	NM_008505	ref Mus musculus LIM domain only 2 (Lmo2), transcript variant 1, mRNA [NM_008505]	-0.28	0.020	0.442	-0.22	0.015	0.828
chr17:7002731-7032535_R	chr17:7002731-7032535_R	lincRNA:chr17:7002731-7032535 reverse strand	-0.38	0.020	0.443	-0.29	0.028	0.983
Pdzd3	NM_133226	ref Mus musculus PDZ domain containing 3 (Pdzd3), mRNA [NM_133226]	-0.88	0.020	0.447	-0.37	0.034	1.000
S100a1	NM_011309	ref Mus musculus S100 calcium binding protein A1 (S100a1), mRNA [NM_011309]	-0.25	0.021	0.448	-0.22	0.017	0.857
Gm2662	XM_001474583	ref PREDICTED: Mus musculus hypothetical protein LOC100040206 (LOC100040206), mRNA [XM_001474583]	-0.92	0.021	0.450	-1.08	0.006	0.650
Ccdc153	NM_001081369	ref Mus musculus coiled-coil domain containing 153 (Ccdc153), mRNA [NM_001081369]	-0.49	0.022	0.450	-0.47	0.000	0.101
chr7:4827340-4863315_R	chr7:4827340-4863315_R	lincRNA:chr7:4827340-4863315 reverse strand	-0.35	0.022	0.450	-0.29	0.048	1.000

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
Gstm2	NM_008183	ref Mus musculus glutathione S-transferase, mu 2 (Gstm2), mRNA [NM_008183]	-0.36	0.022	0.450	-0.66	0.000	0.009
2810454L23Rik	AK013346	gb Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2810454L23 product:weakly similar to KINETOPLAST MITOCHONDRIAL MURF2 PROTEIN [Leishmania tarentolae], full insert sequence. [AK013346]	-0.32	0.022	0.451	-0.22	0.037	1.000
Tmsb10	NM_001190327	ref Mus musculus thymosin, beta 10 (Tmsb10), mRNA [NM_001190327]	-0.63	0.022	0.453	-0.22	0.016	0.851
chr6:127588224-127609749_R	chr6:127588224-127609749_R	lincRNA:chr6:127588224-127609749 reverse strand	-0.36	0.023	0.453	-0.30	0.011	0.772
chr8:91471819-91551119_R	chr8:91471819-91551119_R	lincRNA:chr8:91471819-91551119 reverse strand	-0.47	0.023	0.454	-0.50	0.044	1.000
chr16:21247571-21296945_R	chr16:21247571-21296945_R	lincRNA:chr16:21247571-21296945 reverse strand	-0.43	0.023	0.456	-0.36	0.023	0.936
chr7:67111261-67120645_F	chr7:67111261-67120645_F	lincRNA:chr7:67111261-67120645 forward strand	-0.65	0.024	0.458	-0.38	0.040	1.000
ENSMUST00000064410	ENSMUST00000064410	ens carbohydrate sulfotransferase 10 Gene [Source:MGI Symbol;Acc:MGI:2138283] [ENSMUST00000064410]	-0.55	0.024	0.458	-0.38	0.007	0.672
chr1:72983462-72987115_F	chr1:72983462-72987115_F	lincRNA:chr1:72983462-72987115 forward strand	-0.27	0.024	0.459	-0.28	0.011	0.773
Ehd2	ENSMUST00000098799	ens EH-domain containing 2 Gene [Source:MGI (curated);Acc:MGI:2154274] [ENSMUST00000098799]	-0.23	0.025	0.463	-0.18	0.033	1.000
Gm10639	NM_001122660	ref Mus musculus predicted gene 10639 (Gm10639), mRNA [NM_001122660]	-0.44	0.026	0.468	-0.51	0.023	0.948
chr13:98038568-98068079_R	chr13:98038568-98068079_R	lincRNA:chr13:98038568-98068079 reverse strand	-0.79	0.026	0.468	-0.30	0.030	0.998
Dock1	NM_001033420	ref Mus musculus dedicator of cytokinesis 1 (Dock1), mRNA [NM_001033420]	-0.25	0.026	0.470	-0.14	0.037	1.000
Gm8384	XM_001473438	ref PREDICTED: Mus musculus similar to ALY (LOC627530), mRNA [XM_001473438]	-0.42	0.026	0.471	-0.57	0.006	0.643

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
chr14:43929100-43945100_R	chr14:43929100-43945100_R	lincRNA:chr14:43929100-43945100 reverse strand	-0.50	0.027	0.471	-0.55	0.016	0.851
4930506M07Rik	NM_175172	ref Mus musculus RIKEN cDNA 4930506M07 gene (4930506M07Rik), transcript variant 2, mRNA [NM_175172]	-0.33	0.027	0.472	-0.31	0.006	0.648
Man1c1	NM_207237	ref Mus musculus mannosidase, alpha, class 1C, member 1 (Man1c1), mRNA [NM_207237]	-0.36	0.027	0.472	-0.22	0.039	1.000
LOC100045690	XM_001474757	ref PREDICTED: Mus musculus hypothetical protein LOC100045690 (LOC100045690), mRNA [XM_001474757]	-0.70	0.027	0.473	-0.51	0.039	1.000
chr12:88154776-88184372_F	chr12:88154776-88184372_F	lincRNA:chr12:88154776-88184372 forward strand	-0.85	0.028	0.474	-0.61	0.025	0.968
chr5:92548501-92566401_R	chr5:92548501-92566401_R	lincRNA:chr5:92548501-92566401 reverse strand	-0.49	0.028	0.474	-0.67	0.017	0.854
Gm3002	NR_033388	ref Mus musculus predicted gene 3002 (Gm3002), non-coding RNA [NR_033388]	-0.34	0.029	0.477	-0.30	0.050	1.000
Gm5985	XM_001475858	ref PREDICTED: Mus musculus predicted gene, EG546855 (EG546855), mRNA [XM_001475858]	-0.59	0.030	0.477	-0.76	0.010	0.764
4833441D16Rik	BP770359	gb BP770359 mouse (C57BL [BP770359]	-0.37	0.030	0.477	-0.39	0.001	0.274
Ccl21b	NM_011335	ref Mus musculus chemokine (C-C motif) ligand 21B (Ccl21b), mRNA [NM_011335]	-0.47	0.030	0.480	-0.39	0.029	0.991
chr8:27129927-27137444_F	chr8:27129927-27137444_F	lincRNA:chr8:27129927-27137444 forward strand	-0.29	0.031	0.481	-0.37	0.042	1.000
Il13	NM_008355	ref Mus musculus interleukin 13 (Il13), mRNA [NM_008355]	-0.82	0.031	0.481	-0.69	0.022	0.922
Vav3	NM_020505	ref Mus musculus vav 3 oncogene (Vav3), transcript variant 1, mRNA [NM_020505]	-0.27	0.031	0.482	-0.22	0.047	1.000
chr7:48794017-48815817_R	chr7:48794017-48815817_R	lincRNA:chr7:48794017-48815817 reverse strand	-0.44	0.031	0.483	-0.35	0.039	1.000
Duoxa2	NM_025777	ref Mus musculus dual oxidase maturation factor 2 (Duoxa2), mRNA [NM_025777]	-0.68	0.032	0.485	-0.63	0.028	0.983

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
LOC100048142	XM_001479830	ref PREDICTED: Mus musculus similar to thymosin, beta 10 (LOC100048142), mRNA [XM_001479830]	-0.65	0.033	0.488	-0.26	0.032	1.000
LOC676051	XR_033788	ref PREDICTED: Mus musculus similar to adaptor-related protein complex 1, sigma 3 subunit (LOC676051), misc RNA [XR_033788]	-0.33	0.033	0.490	-0.41	0.007	0.664
Lig3	NM_010716	ref Mus musculus ligase III, DNA, ATP-dependent (Lig3), nuclear gene encoding mitochondrial protein, mRNA [NM_010716]	-0.23	0.033	0.490	-0.16	0.048	1.000
E030030I06Rik	ENSMUST00000069372	ens RIKEN cDNA E030030I06 gene Gene [Source:MGI Symbol;Acc:MGI:2442914] [ENSMUST00000069372]	-0.31	0.035	0.493	-0.40	0.005	0.588
chr1:167797581-167803031_F	chr1:167797581-167803031_F	lincRNA:chr1:167797581-167803031 forward strand	-0.47	0.035	0.495	-0.40	0.030	0.998
Olfr701	NM_028910	ref Mus musculus olfactory receptor 701 (Olfr701), mRNA [NM_028910]	-0.54	0.035	0.495	-0.40	0.023	0.941
chr17:95255725-95272425_F	chr17:95255725-95272425_F	lincRNA:chr17:95255725-95272425 forward strand	-0.40	0.036	0.495	-0.39	0.027	0.975
chr13:60508775-60534625_F	chr13:60508775-60534625_F	lincRNA:chr13:60508775-60534625 forward strand	-0.64	0.036	0.495	-0.62	0.019	0.883
Sypl2	NM_008596	ref Mus musculus synaptophysin-like 2 (Sypl2), mRNA [NM_008596]	-0.51	0.036	0.495	-0.52	0.039	1.000
E2f8	NM_001013368	ref Mus musculus E2F transcription factor 8 (E2f8), mRNA [NM_001013368]	-0.33	0.037	0.496	-0.45	0.002	0.377
Tmem205	NM_178577	ref Mus musculus transmembrane protein 205 (Tmem205), mRNA [NM_178577]	-0.31	0.037	0.497	-0.30	0.025	0.966
chr3:96205368-96217943_F	chr3:96205368-96217943_F	lincRNA:chr3:96205368-96217943 forward strand	-0.53	0.037	0.498	-0.68	0.018	0.864
chr2:31001736-31006911_F	chr2:31001736-31006911_F	lincRNA:chr2:31001736-31006911 forward strand	-0.35	0.038	0.499	-0.40	0.024	0.957
chr6:47692090-47713542_F	chr6:47692090-47713542_F	lincRNA:chr6:47692090-47713542 forward strand	-0.29	0.039	0.499	-0.30	0.011	0.766
chr8:110196655-110390197_F	chr8:110196655-110390197_F	lincRNA:chr8:110196655-110390197 forward strand	-0.42	0.039	0.500	-0.49	0.043	1.000

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
9630017O17	AK035916	gb Mus musculus 16 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:9630017O17 product:unclassifiable, full insert sequence. [AK035916]	-0.40	0.039	0.500	-0.27	0.030	0.998
Ctsl3	NM_027344	ref Mus musculus cathepsin L-like 3 (Ctsl3), mRNA [NM_027344]	-0.49	0.040	0.502	-0.63	0.004	0.567
Smok4a	NR_030763	ref Mus musculus sperm motility kinase 4A (Smok4a), non-coding RNA [NR_030763]	-0.37	0.040	0.504	-0.47	0.038	1.000
4930452L12Rik	BY714998	gb BY714998 RIKEN full-length enriched, adult male testis Mus musculus cDNA clone 4930452L12 5'. [BY714998]	-0.37	0.042	0.507	-0.54	0.037	1.000
Bex1	NM_009052	ref Mus musculus brain expressed gene 1 (Bex1), mRNA [NM_009052]	-0.72	0.043	0.511	-0.77	0.000	0.131
Sstr1	NM_009216	ref Mus musculus somatostatin receptor 1 (Sstr1), mRNA [NM_009216]	-0.33	0.043	0.511	-0.35	0.026	0.972
LOC637477	XM_001476893	ref PREDICTED: Mus musculus hypothetical LOC637477 (LOC637477), mRNA [XM_001476893]	-0.48	0.044	0.511	-0.61	0.017	0.854
chr1:167218236-167218418_F	chr1:167218236-167218418_F	lincRNA:chr1:167218236-167218418 forward strand	-0.32	0.044	0.511	-0.30	0.043	1.000
ENSMUST00000097955	ENSMUST00000097955	ens cache domain containing 1 Gene [Source:MGI (curated);Acc:MGI:2444177] [ENSMUST00000097955]	-0.27	0.044	0.512	-0.37	0.032	1.000
chr17:26613904-26614277_F	chr17:26613904-26614277_F	lincRNA:chr17:26613904-26614277 forward strand	-0.44	0.044	0.512	-0.55	0.044	1.000
Adhfe1	NM_175236	ref Mus musculus alcohol dehydrogenase, iron containing, 1 (Adhfe1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_175236]	-0.30	0.045	0.513	-0.39	0.002	0.384
ENSMUST00000110689	ENSMUST00000110689	Unknown	-0.28	0.046	0.513	-0.51	0.001	0.317
G630022F23Rik	AK144327	gb Mus musculus 0 day neonate cortex cDNA, RIKEN full-length enriched library, clone:G630022F23 product:hypothetical protein, full insert sequence. [AK144327]	-0.47	0.046	0.513	-0.36	0.049	1.000

Online Supplemental Table IV: mG4H-Veh and mG4H-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value
chr1:115829055-115854155_F	chr1:115829055-115854155_F	lincRNA:chr1:115829055-115854155 forward strand	-0.49	0.046	0.513	-0.52	0.021	0.916
Slc34a1	NM_011392	ref Mus musculus solute carrier family 34 (sodium phosphate), member 1 (Slc34a1), mRNA [NM_011392]	-0.39	0.046	0.513	-0.41	0.009	0.730
chr7:99879368-99889978_F	chr7:99879368-99889978_F	lincRNA:chr7:99879368-99889978 forward strand	-0.59	0.047	0.515	-0.47	0.040	1.000
LOC100045610	XM_001474598	ref PREDICTED: Mus musculus hypothetical protein LOC100045610 (LOC100045610), mRNA [XM_001474598]	-0.34	0.047	0.515	-0.28	0.009	0.720
Fads6	NM_178035	ref Mus musculus fatty acid desaturase domain family, member 6 (Fads6), mRNA [NM_178035]	-0.28	0.048	0.516	-0.24	0.011	0.766

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Epyc	NM_007884	ref Mus musculus epiphykan (Epyc), mRNA [NM_007884]	0.90	0.036	1.000	0.43	0.041	0.422
Sfrp5	NM_018780	ref Mus musculus secreted frizzled-related sequence protein 5 (Sfrp5), mRNA [NM_018780]	0.84	0.002	0.357	0.37	0.020	0.298
chr16:13752215-13764390_R	chr16:13752215-13764390_R	lincRNA:chr16:13752215-13764390 reverse strand	0.84	0.001	0.272	0.52	0.027	0.344
ENSMUST00000099100	ENSMUST00000099100	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3V179] [ENSMUST00000099100]	0.83	0.007	0.664	0.68	0.015	0.263
chr8:72178035-72200445_R	chr8:72178035-72200445_R	lincRNA:chr8:72178035-72200445 reverse strand	0.83	0.005	0.606	0.69	0.026	0.338
Vmn1r32	NM_134170	ref Mus musculus vomeronasal 1 receptor 32 (Vmn1r32), mRNA [NM_134170]	0.77	0.043	1.000	0.75	0.031	0.368
Ccl8	NM_021443	ref Mus musculus chemokine (C-C motif) ligand 8 (Ccl8), mRNA [NM_021443]	0.66	0.023	0.935	1.50	0.025	0.330
Zfp287	NM_133208	ref Mus musculus zinc finger protein 287 (Zfp287), mRNA [NM_133208]	0.64	0.041	1.000	0.83	0.018	0.280
Gfi1	NM_010278	ref Mus musculus growth factor independent 1 (Gfi1), mRNA [NM_010278]	0.63	0.008	0.708	0.50	0.015	0.261
chr4:89048647-89066563_F	chr4:89048647-89066563_F	lincRNA:chr4:89048647-89066563 forward strand	0.61	0.014	0.812	0.69	0.010	0.208
Ifne	NM_177348	ref Mus musculus interferon epsilon (Ifne), mRNA [NM_177348]	0.61	0.015	0.826	0.67	0.001	0.075
Lhx5	NM_008499	ref Mus musculus LIM homeobox protein 5 (Lhx5), mRNA [NM_008499]	0.59	0.027	0.983	0.50	0.028	0.352
chr8:126278269-126291621_F	chr8:126278269-126291621_F	lincRNA:chr8:126278269-126291621 forward strand	0.59	0.006	0.624	0.46	0.047	0.446
Gal3st4	NM_001033416	ref Mus musculus galactose-3-O-sulfotransferase 4 (Gal3st4), mRNA [NM_001033416]	0.57	0.000	0.119	0.39	0.005	0.154
Gm2043	XM_001472249	ref PREDICTED: Mus musculus hypothetical protein LOC100039094 (LOC100039094), mRNA [XM_001472249]	0.55	0.047	1.000	0.79	0.031	0.370

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
chr14:100858641-100878744_F	chr14:100858641-100878744_F	lincRNA:chr14:100858641-100878744 forward strand	0.54	0.019	0.881	0.49	0.048	0.451
Prss21	NM_020487	ref Mus musculus protease, serine, 21 (Prss21), mRNA [NM_020487]	0.53	0.026	0.971	0.34	0.046	0.443
Gm2170	XM_001472717	ref PREDICTED: Mus musculus hypothetical protein LOC100039341 (LOC100039341), mRNA [XM_001472717]	0.52	0.017	0.855	0.48	0.018	0.283
Caskin1	NM_027937	ref Mus musculus CASK interacting protein 1 (Caskin1), mRNA [NM_027937]	0.52	0.041	1.000	0.56	0.014	0.252
LOC100048500	XM_001480545	ref PREDICTED: Mus musculus hypothetical protein LOC100048500 (LOC100048500), mRNA [XM_001480545]	0.51	0.029	0.989	0.52	0.036	0.393
Ccl2	NM_011333	ref Mus musculus chemokine (C-C motif) ligand 2 (Ccl2), mRNA [NM_011333]	0.51	0.020	0.895	1.11	0.016	0.274
chr6:86477309-86537554_F	chr6:86477309-86537554_F	lincRNA:chr6:86477309-86537554 forward strand	0.50	0.017	0.858	0.47	0.023	0.316
Art2a-ps	NM_007490	ref Mus musculus ADP-ribosyltransferase 2a, pseudogene (Art2a-ps), transcript variant 1, mRNA [NM_007490]	0.50	0.047	1.000	0.50	0.046	0.445
Rnase9	NM_183032	ref Mus musculus ribonuclease, RNase A family, 9 (non-active) (Rnase9), mRNA [NM_183032]	0.49	0.036	1.000	0.46	0.026	0.337
4930404H11Rik	BY714608	gb BY714608 RIKEN full-length enriched, adult male testis Mus musculus cDNA clone 4930404H11 5'. [BY714608]	0.47	0.024	0.952	0.51	0.023	0.320
chr15:41486232-41499767_R	chr15:41486232-41499767_R	lincRNA:chr15:41486232-41499767 reverse strand	0.47	0.032	1.000	0.37	0.047	0.449
chr9:78368697-78369095_R	chr9:78368697-78369095_R	lincRNA:chr9:78368697-78369095 reverse strand	0.47	0.032	1.000	0.43	0.046	0.443
LOC100044408	XM_001472202	ref PREDICTED: Mus musculus similar to candidate taste receptor mt2r58 (LOC100044408), mRNA [XM_001472202]	0.46	0.033	1.000	0.44	0.026	0.341

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Enpp6	NM_177304	ref Mus musculus ectonucleotide pyrophosphatase/phosphodiesterase 6 (Enpp6), mRNA [NM_177304]	0.46	0.016	0.851	0.39	0.007	0.179
chr7:140012053-140012509_R	chr7:140012053-140012509_R	lincRNA:chr7:140012053-140012509 reverse strand	0.45	0.012	0.783	0.44	0.014	0.257
ENSMUST00000063230	ENSMUST00000063230	ens RIKEN cDNA 4930544M13 gene Gene [Source:MGI Symbol;Acc:MGI:1922411] [ENSMUST00000063230]	0.45	0.008	0.705	0.47	0.018	0.287
LOC100047422	XM_001478117	ref PREDICTED: Mus musculus similar to RIKEN cDNA 3110050K21 (LOC100047422), mRNA [XM_001478117]	0.44	0.001	0.285	0.28	0.019	0.294
Gm3750	NM_001099643	ref Mus musculus predicted gene 3750 (Gm3750), mRNA [NM_001099643]	0.44	0.041	1.000	0.44	0.046	0.443
XM_001476966	XM_001476966	ref PREDICTED: Mus musculus similar to sterile alpha motif domain containing 1 (LOC100041764), mRNA [XM_001476966]	0.44	0.020	0.895	0.72	0.004	0.132
chr8:12278818-12280657_F	chr8:12278818-12280657_F	lincRNA:chr8:12278818-12280657 forward strand	0.42	0.017	0.861	0.42	0.021	0.307
chrX:6982891-7008528_R	chrX:6982891-7008528_R	lincRNA:chrX:6982891-7008528 reverse strand	0.42	0.011	0.773	0.35	0.045	0.440
Gm5126	NR_026596	ref Mus musculus predicted pseudogene 5126 (Gm5126), non-coding RNA [NR_026596]	0.41	0.041	1.000	0.31	0.028	0.350
Dok7	NM_172708	ref Mus musculus docking protein 7 (Dok7), mRNA [NM_172708]	0.40	0.010	0.762	0.33	0.016	0.269
Bcat1	NM_007532	ref Mus musculus branched chain aminotransferase 1, cytosolic (Bcat1), transcript variant 2, mRNA [NM_007532]	0.39	0.008	0.694	0.37	0.013	0.241
chr15:73455424-73477275_R	chr15:73455424-73477275_R	lincRNA:chr15:73455424-73477275 reverse strand	0.39	0.003	0.503	0.37	0.004	0.137
Gm2654	XR_031664	ref PREDICTED: Mus musculus similar to mKIAA1897 protein (LOC100040190), misc RNA [XR_031664]	0.38	0.026	0.970	0.23	0.017	0.280
Amd2	NM_007444	ref Mus musculus S-adenosylmethionine decarboxylase 2 (Amd2), mRNA [NM_007444]	0.38	0.005	0.589	0.41	0.006	0.156

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Atf2	NM_001025093	ref Mus musculus activating transcription factor 2 (Atf2), transcript variant 1, mRNA [NM_001025093]	0.37	0.050	1.000	0.57	0.018	0.281
chr12:88154776-88184372_F	chr12:88154776-88184372_F	lincRNA:chr12:88154776-88184372 forward strand	0.37	0.020	0.897	0.43	0.011	0.227
Cdkn2b	NM_007670	ref Mus musculus cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4) (Cdkn2b), mRNA [NM_007670]	0.37	0.006	0.661	0.30	0.024	0.325
Gm6225	NR_033457	ref Mus musculus predicted gene 6225 (Gm6225), non-coding RNA [NR_033457]	0.37	0.001	0.245	0.32	0.010	0.208
LOC100044768	XM_001473012	ref PREDICTED: Mus musculus hypothetical protein LOC100044768 (LOC100044768), mRNA [XM_001473012]	0.37	0.015	0.833	0.44	0.033	0.376
Stk35	NM_183262	ref Mus musculus serine/threonine kinase 35 (Stk35), transcript variant 1, mRNA [NM_183262]	0.36	0.017	0.862	0.51	0.002	0.081
Otor	NM_020595	ref Mus musculus otoraplin (Otor), mRNA [NM_020595]	0.35	0.019	0.881	0.38	0.043	0.428
Slc25a22	NM_026646	ref Mus musculus solute carrier family 25 (mitochondrial carrier, glutamate), member 22 (Slc25a22), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_026646]	0.35	0.014	0.825	0.33	0.011	0.226
chr13:64018565-64082570_F	chr13:64018565-64082570_F	lincRNA:chr13:64018565-64082570 forward strand	0.35	0.019	0.881	0.39	0.011	0.227
Dhh	NM_007857	ref Mus musculus desert hedgehog (Dhh), mRNA [NM_007857]	0.35	0.044	1.000	0.43	0.009	0.200
Gm11295	XR_032538	ref PREDICTED: Mus musculus similar to fatty acyl elongase (LOC675480), misc RNA [XR_032538]	0.34	0.024	0.957	0.38	0.010	0.216
Amd-ps6	XR_032961	ref PREDICTED: Mus musculus similar to S-adenosylmethionine decarboxylase (LOC666251), misc RNA [XR_032961]	0.34	0.034	1.000	0.46	0.039	0.411
A530020G20Rik	AK040960	gb Mus musculus adult male aorta and vein cDNA, RIKEN full-length enriched library, clone:A530051K04 product:unclassifiable, full insert sequence. [AK040960]	0.34	0.029	0.986	0.36	0.029	0.356
Ubiad1	NM_027873	ref Mus musculus UbiA prenyltransferase domain containing 1 (Ubiad1), mRNA [NM_027873]	0.34	0.001	0.263	0.20	0.041	0.420

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
chr8:28345511-28361105_F	chr8:28345511-28361105_F	lincRNA:chr8:28345511-28361105 forward strand	0.33	0.026	0.974	0.41	0.049	0.452
LOC641137	XM_918476	ref PREDICTED: Mus musculus similar to G protein-coupled receptor, family C, group 2, member A, related sequence 5 (LOC641137), mRNA [XM_918476]	0.32	0.035	1.000	0.34	0.039	0.411
ENSMUST00000095675	ENSMUST00000095675	ens a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 9 Gene [Source:MGI (curated);Acc:MGI:1916320] [ENSMUST00000095675]	0.32	0.042	1.000	0.42	0.008	0.193
Fam196a	ENSMUST00000097984	ens family with sequence similarity 196, member A Gene [Source:MGI Symbol;Acc:MGI:3605068] [ENSMUST00000097984]	0.31	0.007	0.674	0.34	0.012	0.232
Slc30a7	NM_023214	ref Mus musculus solute carrier family 30 (zinc transporter), member 7 (Slc30a7), mRNA [NM_023214]	0.31	0.040	1.000	0.37	0.029	0.356
Mmd	NM_026178	ref Mus musculus monocyte to macrophage differentiation-associated (Mmd), mRNA [NM_026178]	0.30	0.018	0.863	0.30	0.021	0.303
Sumf2	NM_026445	ref Mus musculus sulfatase modifying factor 2 (Sumf2), mRNA [NM_026445]	0.30	0.030	0.998	0.36	0.012	0.236
Gpi1	NM_008155	ref Mus musculus glucose phosphate isomerase 1 (Gpi1), mRNA [NM_008155]	0.29	0.011	0.781	0.29	0.032	0.374
chr6:47687025-47728525_F	chr6:47687025-47728525_F	lincRNA:chr6:47687025-47728525 forward strand	0.29	0.040	1.000	0.31	0.042	0.425
Csrp2	NM_007792	ref Mus musculus cysteine and glycine-rich protein 2 (Csrp2), mRNA [NM_007792]	0.29	0.012	0.793	0.32	0.021	0.302
chr6:54592523-54593344_R	chr6:54592523-54593344_R	lincRNA:chr6:54592523-54593344 reverse strand	0.29	0.042	1.000	0.23	0.050	0.457
Dyx1c1	NM_026314	ref Mus musculus dyslexia susceptibility 1 candidate 1 homolog (human) (Dyx1c1), transcript variant 1, mRNA [NM_026314]	0.28	0.030	0.998	0.25	0.048	0.452
Zcchc2	NM_001122676	ref Mus musculus zinc finger, CCHC domain containing 2 (Zcchc2), transcript variant A, mRNA [NM_001122676]	0.27	0.050	1.000	0.31	0.041	0.421

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
LOC625164	XM_001477567	ref PREDICTED: Mus musculus similar to novel member of the interferon zeta family Ifnz (LOC625164), mRNA [XM_001477567]	0.27	0.044	1.000	0.35	0.034	0.384
ENSMUST00000089248	ENSMUST00000089248	ref PREDICTED: Mus musculus similar to polyQ-containing protein CAG-8 (LOC100046794), mRNA [XM_001476824]	0.26	0.027	0.981	0.32	0.025	0.332
Sulf2	NM_028072	ref Mus musculus sulfatase 2 (Sulf2), mRNA [NM_028072]	0.26	0.004	0.572	0.42	0.003	0.122
Tmem39a	NM_026407	ref Mus musculus transmembrane protein 39a (Tmem39a), mRNA [NM_026407]	0.26	0.019	0.881	0.24	0.041	0.419
Pcgf2	NM_009545	ref Mus musculus polycomb group ring finger 2 (Pcgf2), transcript variant 1, mRNA [NM_009545]	0.26	0.038	1.000	0.32	0.035	0.387
Skil	NM_011386	ref Mus musculus SKI-like (Skil), transcript variant 1, mRNA [NM_011386]	0.25	0.018	0.865	0.27	0.018	0.284
chr7:88131123-88136898_R	chr7:88131123-88136898_R	lincRNA:chr7:88131123-88136898 reverse strand	0.24	0.005	0.606	0.21	0.033	0.377
Hmga1	NM_016660	ref Mus musculus high mobility group AT-hook 1 (Hmga1), transcript variant 1, mRNA [NM_016660]	0.22	0.015	0.831	0.24	0.025	0.330
Hsd12	NM_024255	ref Mus musculus hydroxysteroid dehydrogenase like 2 (Hsd12), mRNA [NM_024255]	0.22	0.011	0.781	0.33	0.004	0.137
Abcg1	NM_009593	ref Mus musculus ATP-binding cassette, sub-family G (WHITE), member 1 (Abcg1), mRNA [NM_009593]	0.21	0.039	1.000	0.42	0.011	0.216
Retsat	NM_026159	ref Mus musculus retinol saturase (all trans retinol 13,14 reductase) (Retsat), mRNA [NM_026159]	0.20	0.010	0.758	0.60	0.000	0.010
Ppp1r14b	NM_008889	ref Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 14B (Ppp1r14b), mRNA [NM_008889]	0.20	0.018	0.869	0.28	0.016	0.272
Zdhhc3	NM_026917	ref Mus musculus zinc finger, DHHC domain containing 3 (Zdhhc3), mRNA [NM_026917]	0.19	0.043	1.000	0.20	0.043	0.428
Plin5	NM_001077348	ref Mus musculus perilipin 5 (Plin5), transcript variant 2, mRNA [NM_001077348]	0.19	0.025	0.965	0.56	0.004	0.135
Chmp4b	NM_029362	ref Mus musculus chromatin modifying protein 4B (Chmp4b), mRNA [NM_029362]	0.16	0.038	1.000	0.21	0.021	0.302

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Lgi3	NM_145219	ref Mus musculus leucine-rich repeat LGI family, member 3 (Lgi3), mRNA [NM_145219]	1.17	0.000	0.004	-0.67	0.000	0.012
Aldob	NM_144903	ref Mus musculus aldolase B, fructose-bisphosphate (Aldob), mRNA [NM_144903]	0.68	0.007	0.679	-1.02	0.002	0.095
Gsg1l	NM_001101488	ref Mus musculus GSG1-like (Gsg1l), mRNA [NM_001101488]	0.65	0.000	0.022	-0.69	0.000	0.043
Ralgapa2	NM_001033348	ref Mus musculus Ral GTPase activating protein, alpha subunit 2 (catalytic) (Ralgapa2), mRNA [NM_001033348]	0.62	0.000	0.012	-0.32	0.006	0.166
Gsg1l	NM_001101488	ref Mus musculus GSG1-like (Gsg1l), mRNA [NM_001101488]	0.52	0.010	0.746	-0.59	0.003	0.118
Mas1	NM_008552	ref Mus musculus MAS1 oncogene (Mas1), mRNA [NM_008552]	0.51	0.003	0.469	-0.53	0.017	0.278
2310015K22Rik	XM_001473304	ref PREDICTED: Mus musculus RIKEN cDNA 2310015K22 gene (2310015K22Rik), mRNA [XM_001473304]	0.50	0.003	0.503	-0.33	0.026	0.335
Ybx2	ENSMUST00000018698	ens Y box protein 2 Gene [Source:MGI (curated);Acc:MGI:1096372] [ENSMUST00000018698]	0.50	0.001	0.316	-0.78	0.000	0.021
March11	NM_177597	ref Mus musculus membrane-associated ring finger (C3HC4) 11 (March11), mRNA [NM_177597]	0.47	0.005	0.602	-0.62	0.035	0.390
chr2:136340642-136341256_F	chr2:136340642-136341256_F	lincRNA:chr2:136340642-136341256 forward strand	0.43	0.033	1.000	-0.78	0.031	0.370
AI852064	BC058714	gb Mus musculus cDNA clone IMAGE:6842867, partial cds. [BC058714]	0.42	0.001	0.251	-0.29	0.046	0.444
Mid1ip1	NM_001166635	ref Mus musculus Mid1 interacting protein 1 (gastrulation specific G12-like (zebrafish)) (Mid1ip1), transcript variant 1, mRNA [NM_001166635]	0.42	0.001	0.214	-0.31	0.017	0.279
Pdhb	NM_024221	ref Mus musculus pyruvate dehydrogenase (lipoamide) beta (Pdhb), nuclear gene encoding mitochondrial protein, mRNA [NM_024221]	0.42	0.000	0.075	-0.37	0.003	0.117
6530418L21Rik	NM_175398	ref Mus musculus RIKEN cDNA 6530418L21 gene (6530418L21Rik), transcript variant 1, mRNA [NM_175398]	0.36	0.008	0.694	-0.36	0.017	0.278

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Gm8513	XR_031090	ref PREDICTED: Mus musculus similar to Predicted gene, EG277333 (LOC667204), misc RNA [XR_031090]	0.36	0.008	0.696	-0.25	0.023	0.319
Ppp1r3b	NM_177741	ref Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 3B (Ppp1r3b), mRNA [NM_177741]	0.36	0.001	0.331	-0.34	0.005	0.154
Mrgprh	NM_030726	ref Mus musculus MAS-related GPR, member H (Mrgprh), mRNA [NM_030726]	0.35	0.002	0.404	-0.37	0.024	0.328
Vax2	NM_011912	ref Mus musculus ventral anterior homeobox containing gene 2 (Vax2), mRNA [NM_011912]	0.33	0.002	0.392	-0.51	0.000	0.029
Gm9127	XR_002168	ref PREDICTED: Mus musculus predicted gene, EG668361 (EG668361), misc RNA [XR_002168]	0.33	0.013	0.793	-0.24	0.036	0.392
Rpia	NM_009075	ref Mus musculus ribose 5-phosphate isomerase A (Rpia), mRNA [NM_009075]	0.32	0.003	0.488	-0.38	0.011	0.218
Hs2st1	NM_011828	ref Mus musculus heparan sulfate 2-O-sulfotransferase 1 (Hs2st1), mRNA [NM_011828]	0.32	0.007	0.675	-0.42	0.003	0.117
Gm9034	XM_001477881	ref PREDICTED: Mus musculus predicted gene, EG668192 (EG668192), mRNA [XM_001477881]	0.32	0.001	0.256	-0.26	0.007	0.181
Gm15294	XR_004747	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (LOC675199), misc RNA [XR_004747]	0.32	0.009	0.737	-0.32	0.009	0.201
Gm8565	XR_030907	ref PREDICTED: Mus musculus similar to uracil DNA glycosylase (LOC674410), misc RNA [XR_030907]	0.31	0.002	0.403	-0.58	0.040	0.417
Ccdc69	NM_177471	ref Mus musculus coiled-coil domain containing 69 (Ccdc69), mRNA [NM_177471]	0.31	0.021	0.897	-0.90	0.001	0.059
chr17:29571806-29603008_F	chr17:29571806-29603008_F	lincRNA:chr17:29571806-29603008 forward strand	0.31	0.038	1.000	-0.36	0.008	0.194
Gcgr	NM_008101	ref Mus musculus glucagon receptor (Gcgr), mRNA [NM_008101]	0.31	0.037	1.000	-0.22	0.027	0.345
Gm5976	XR_031113	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC546736), misc RNA [XR_031113]	0.30	0.002	0.357	-0.38	0.001	0.074
Gapdh	NM_008084	ref Mus musculus glyceraldehyde-3-phosphate dehydrogenase (Gapdh), mRNA [NM_008084]	0.30	0.007	0.672	-0.26	0.020	0.298

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Gm7189	XM_912249	ref PREDICTED: Mus musculus predicted gene, EG636756 (EG636756), mRNA [XM_912249]	0.30	0.017	0.862	-0.32	0.011	0.216
Zfp462	NM_172867	ref Mus musculus zinc finger protein 462 (Zfp462), mRNA [NM_172867]	0.29	0.038	1.000	-0.45	0.010	0.208
Gm5327	XM_357732	ref PREDICTED: Mus musculus predicted gene, EG384591 (EG384591), mRNA [XM_357732]	0.29	0.002	0.397	-0.66	0.035	0.388
LOC674958	XR_031712	ref PREDICTED: Mus musculus similar to uracil DNA glycosylase (LOC674958), misc RNA [XR_031712]	0.29	0.003	0.447	-0.41	0.001	0.067
Gm8864	XR_031141	ref PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate-dehydrogenase (LOC667891), misc RNA [XR_031141]	0.29	0.001	0.209	-0.36	0.001	0.073
chr17:29571806-29603008_F	chr17:29571806-29603008_F	lincRNA:chr17:29571806-29603008 forward strand	0.29	0.026	0.971	-0.96	0.001	0.064
Gm14130	XR_034976	ref PREDICTED: Mus musculus predicted gene, EG667048 (EG667048), misc RNA [XR_034976]	0.29	0.001	0.218	-0.35	0.001	0.057
Gm3809	XR_032441	ref PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate dehydrogenase (LOC100046117), misc RNA [XR_032441]	0.28	0.008	0.708	-0.24	0.010	0.214
Gm7784	XR_031875	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC665782), misc RNA [XR_031875]	0.28	0.004	0.523	-0.33	0.007	0.175
Gm8357	XR_033155	ref PREDICTED: Mus musculus similar to uracil DNA glycosylase (LOC666909), misc RNA [XR_033155]	0.28	0.014	0.813	-0.33	0.006	0.160
Ppp1r3c	NM_016854	ref Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 3C (Ppp1r3c), mRNA [NM_016854]	0.28	0.008	0.708	-0.49	0.002	0.093
LOC677301	XR_033212	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (LOC677301), misc RNA [XR_033212]	0.28	0.003	0.457	-0.37	0.002	0.086
Gm6981	NR_023357	ref Mus musculus predicted pseudogene 6981 (Gm6981), non-coding RNA [NR_023357]	0.28	0.004	0.538	-0.28	0.005	0.150
Cmb1	NM_181588	ref Mus musculus carboxymethylenebutenolidase-like (Pseudomonas) (Cmb1), mRNA [NM_181588]	0.27	0.008	0.694	-0.33	0.007	0.172

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Relt	NM_177073	ref[Mus musculus RELT tumor necrosis factor receptor (Relt), mRNA [NM_177073]	0.27	0.009	0.737	-0.47	0.005	0.147
Gm2076	XR_030703	ref[PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate-dehydrogenase (LOC100039163), misc RNA [XR_030703]	0.27	0.004	0.547	-0.27	0.005	0.154
Gm9568	XR_032493	ref[PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate dehydrogenase (LOC672572), misc RNA [XR_032493]	0.27	0.005	0.613	-0.44	0.000	0.028
LOC676449	XR_032886	ref[PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (LOC676449), misc RNA [XR_032886]	0.27	0.009	0.737	-0.29	0.005	0.152
Gm5210	XR_031075	ref[PREDICTED: Mus musculus similar to uracil DNA glycosylase (LOC382969), misc RNA [XR_031075]	0.26	0.003	0.487	-0.42	0.000	0.034
Ociad2	NM_026950	ref[Mus musculus OCIA domain containing 2 (Ociad2), mRNA [NM_026950]	0.26	0.043	1.000	-0.62	0.000	0.015
Gm5069	NR_003623	ref[Mus musculus predicted pseudogene 5069 (Gm5069), non-coding RNA [NR_003623]	0.26	0.006	0.630	-0.33	0.005	0.150
Gm11214	XR_031348	ref[PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate dehydrogenase (LOC667451), misc RNA [XR_031348]	0.26	0.011	0.781	-0.31	0.005	0.152
Golt1a	NM_026680	ref[Mus musculus golgi transport 1 homolog A (S. cerevisiae) (Golt1a), mRNA [NM_026680]	0.26	0.037	1.000	-0.41	0.004	0.127
Gm5069	NR_003623	ref[Mus musculus predicted pseudogene 5069 (Gm5069), non-coding RNA [NR_003623]	0.26	0.028	0.984	-0.30	0.012	0.235
Gm8756	XR_030992	ref[PREDICTED: Mus musculus similar to uracil DNA glycosylase (LOC667676), misc RNA [XR_030992]	0.26	0.010	0.762	-0.27	0.004	0.139
4930447J18Rik	XM_898953	ref[PREDICTED: Mus musculus RIKEN cDNA 4930447J18 gene (4930447J18Rik), mRNA [XM_898953]	0.26	0.030	0.998	-0.32	0.031	0.369
Gm6981	NR_023357	ref[Mus musculus predicted pseudogene 6981 (Gm6981), non-coding RNA [NR_023357]	0.26	0.007	0.677	-0.31	0.004	0.130

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Gm11953	XR_031516	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC100044933), misc RNA [XR_031516]	0.25	0.003	0.434	-0.38	0.000	0.035
Gm6298	XR_032508	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC622213), misc RNA [XR_032508]	0.25	0.008	0.708	-0.26	0.014	0.251
Gm2546	XR_031094	ref PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate dehydrogenase (LOC100040001), misc RNA [XR_031094]	0.25	0.006	0.661	-0.30	0.005	0.150
Hlf	NM_172563	ref Mus musculus hepatic leukemia factor (Hlf), mRNA [NM_172563]	0.25	0.014	0.825	-0.52	0.000	0.028
Gm3534	XM_001477082	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC100041831), mRNA [XM_001477082]	0.25	0.019	0.881	-0.26	0.012	0.238
Gm5760	XR_030913	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC436219), misc RNA [XR_030913]	0.25	0.009	0.733	-0.32	0.004	0.140
Gm9522	XR_030565	ref PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate dehydrogenase (LOC671215), misc RNA [XR_030565]	0.25	0.002	0.401	-0.34	0.002	0.103
Ralgps1	NM_175211	ref Mus musculus Ral GEF with PH domain and SH3 binding motif 1 (Ralgps1), mRNA [NM_175211]	0.25	0.008	0.694	-0.43	0.000	0.039
Gm4929	XR_031578	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (LOC238091), misc RNA [XR_031578]	0.25	0.005	0.581	-0.31	0.002	0.096
Gm7611	XR_031991	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC675163), misc RNA [XR_031991]	0.25	0.002	0.409	-0.46	0.002	0.097
Gm8170	XR_034355	ref PREDICTED: Mus musculus similar to uracil DNA glycosylase (LOC666571), misc RNA [XR_034355]	0.25	0.017	0.860	-0.29	0.005	0.154
BC034090	ENSMUST00000035914	ens MKIAA1614 protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q6ZPL5] [ENSMUST00000035914]	0.25	0.032	1.000	-0.34	0.015	0.260

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Gm10290	ENSMUST00000094104	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH), transcript variant 1 (LOC100039258), mRNA [XM_001472531]	0.25	0.013	0.802	-0.39	0.001	0.049
chr17:71242333-71273533_F	chr17:71242333-71273533_F	lincRNA:chr17:71242333-71273533 forward strand	0.25	0.041	1.000	-0.50	0.001	0.060
Gm16470	XM_001478412	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC676923), mRNA [XM_001478412]	0.24	0.013	0.808	-0.28	0.015	0.263
Gm9081	XR_030920	ref PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate dehydrogenase (LOC668275), misc RNA [XR_030920]	0.24	0.005	0.578	-0.31	0.004	0.130
Stat5a	NM_011488	ref Mus musculus signal transducer and activator of transcription 5A (Stat5a), transcript variant 1, mRNA [NM_011488]	0.24	0.023	0.936	-0.41	0.036	0.392
Gm8529	XR_033512	ref PREDICTED: Mus musculus similar to uracil DNA glycosylase (LOC667233), misc RNA [XR_033512]	0.24	0.015	0.827	-0.30	0.002	0.099
Gm6322	XR_031468	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (LOC622432), misc RNA [XR_031468]	0.24	0.017	0.854	-0.34	0.005	0.146
Gm5069	NR_003623	ref Mus musculus predicted pseudogene 5069 (Gm5069), non-coding RNA [NR_003623]	0.24	0.006	0.641	-0.28	0.008	0.189
BC048355	NM_207161	ref Mus musculus cDNA sequence BC048355 (BC048355), mRNA [NM_207161]	0.23	0.042	1.000	-0.52	0.001	0.078
Cblc	NM_001161844	ref Mus musculus Casitas B-lineage lymphoma c (Cblc), transcript variant 2, mRNA [NM_001161844]	0.23	0.010	0.752	-0.37	0.007	0.181
ENSMUST00000108587	ENSMUST00000108587	ens troponin T1, skeletal, slow Gene [Source:MGI Symbol;Acc:MGI:1333868] [ENSMUST00000108587]	0.23	0.019	0.881	-0.62	0.000	0.009
Pot1a	NM_133931	ref Mus musculus protection of telomeres 1A (Pot1a), mRNA [NM_133931]	0.23	0.018	0.864	-0.34	0.001	0.074
Gm13668	XR_032757	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (LOC622659), misc RNA [XR_032757]	0.23	0.009	0.729	-0.44	0.001	0.068

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Gm5863	XM_001487781	ref PREDICTED: Mus musculus predicted gene, EG545741, transcript variant 1 (EG545741), mRNA [XM_001487781]	0.22	0.019	0.881	-0.39	0.001	0.049
Gm7251	ENSMUST00000091621	ref PREDICTED: Mus musculus predicted gene, EG638833 (EG638833), mRNA [XM_914987]	0.22	0.015	0.829	-0.42	0.000	0.037
Gm9061	XR_034310	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC668242), misc RNA [XR_034310]	0.22	0.010	0.743	-0.33	0.002	0.081
ENSMUST00000148137	ENSMUST00000148137	ref PREDICTED: Mus musculus predicted gene, EG329055 (EG329055), mRNA [XM_991957]	0.22	0.039	1.000	-0.38	0.002	0.082
Gm8055	XM_986164	ref PREDICTED: Mus musculus predicted gene, EG666342 (EG666342), mRNA [XM_986164]	0.22	0.008	0.708	-0.32	0.003	0.117
Gapdh	NM_008084	ref Mus musculus glyceraldehyde-3-phosphate dehydrogenase (Gapdh), mRNA [NM_008084]	0.22	0.020	0.895	-0.26	0.009	0.196
Gm8824	XR_002080	ref PREDICTED: Mus musculus predicted gene, EG667802 (EG667802), misc RNA [XR_002080]	0.22	0.016	0.848	-0.37	0.001	0.067
Gm6283	XR_031548	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (LOC622075), misc RNA [XR_031548]	0.22	0.019	0.881	-0.29	0.002	0.102
Man2a2	ENSMUST00000098346	ens mannosidase 2, alpha 2 Gene [Source:MGI Symbol;Acc:MGI:2150656] [ENSMUST00000098346]	0.22	0.005	0.589	-0.20	0.025	0.330
chr4:32294119-32294941_F	chr4:32294119-32294941_F	lincRNA:chr4:32294119-32294941 forward strand	0.22	0.036	1.000	-0.36	0.002	0.086
Gm12969	XR_031034	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC667354), misc RNA [XR_031034]	0.22	0.009	0.714	-0.37	0.000	0.044
Ehmt1	NM_001012518	ref Mus musculus euchromatic histone methyltransferase 1 (Ehmt1), transcript variant 1, mRNA [NM_001012518]	0.21	0.028	0.983	-0.35	0.004	0.135
Gm8927	XR_032307	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC668018), misc RNA [XR_032307]	0.21	0.031	0.999	-0.33	0.005	0.153

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
LOC634088	XM_908700	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (LOC634088), mRNA [XM_908700]	0.21	0.007	0.674	-0.63	0.011	0.220
Gm4929	XR_031578	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (LOC238091), misc RNA [XR_031578]	0.21	0.029	0.988	-0.29	0.009	0.206
LOC677637	XR_030830	ref PREDICTED: Mus musculus similar to uracil DNA glycosylase (LOC677637), misc RNA [XR_030830]	0.21	0.033	1.000	-0.33	0.005	0.150
Lmf1	NM_029624	ref Mus musculus lipase maturation factor 1 (Lmf1), mRNA [NM_029624]	0.21	0.015	0.831	-0.30	0.011	0.218
LOC637280	XR_033802	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC637280), misc RNA [XR_033802]	0.21	0.010	0.759	-0.28	0.006	0.168
Gm5507	XM_484732	ref PREDICTED: Mus musculus predicted gene, EG433184 (EG433184), mRNA [XM_484732]	0.21	0.012	0.783	-0.33	0.004	0.132
Ak4	NM_001177602	ref Mus musculus adenylate kinase 4 (Ak4), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_001177602]	0.20	0.036	1.000	-0.54	0.009	0.203
Gm11453	XR_032746	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC241765), misc RNA [XR_032746]	0.20	0.016	0.846	-0.37	0.001	0.064
Gm4398	XR_034518	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC100043373), misc RNA [XR_034518]	0.20	0.027	0.983	-0.30	0.008	0.194
Gm15593	XR_032736	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (LOC386426), misc RNA [XR_032736]	0.20	0.037	1.000	-0.26	0.012	0.234
Lynx1	NM_011838	ref Mus musculus Ly6/neurotoxin 1 (Lynx1), mRNA [NM_011838]	0.19	0.017	0.854	-0.47	0.001	0.064
Gapdh	NM_008084	ref Mus musculus glyceraldehyde-3-phosphate dehydrogenase (Gapdh), mRNA [NM_008084]	0.19	0.022	0.934	-0.34	0.002	0.093

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Gm7985	XR_034366	ref PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate dehydrogenase (LOC666213), misc RNA [XR_034366]	0.19	0.035	1.000	-0.28	0.010	0.216
Slc26a6	NM_134420	ref Mus musculus solute carrier family 26, member 6 (Slc26a6), mRNA [NM_134420]	0.19	0.016	0.848	-0.30	0.002	0.094
Gapdh	NM_008084	ref Mus musculus glyceraldehyde-3-phosphate dehydrogenase (Gapdh), mRNA [NM_008084]	0.19	0.044	1.000	-0.42	0.001	0.070
Gm7191	XR_032786	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (LOC636859), misc RNA [XR_032786]	0.19	0.023	0.936	-0.27	0.007	0.181
Gapdh	NM_008084	ref Mus musculus glyceraldehyde-3-phosphate dehydrogenase (Gapdh), mRNA [NM_008084]	0.18	0.031	0.998	-0.24	0.013	0.248
Atxn7	NM_139227	ref Mus musculus ataxin 7 (Atxn7), mRNA [NM_139227]	0.18	0.024	0.957	-0.35	0.001	0.059
Kcna4	NM_021275	ref Mus musculus potassium voltage-gated channel, shaker-related subfamily, member 4 (Kcna4), mRNA [NM_021275]	0.18	0.044	1.000	-0.31	0.005	0.153
Pdlim4	NM_019417	ref Mus musculus PDZ and LIM domain 4 (Pdlim4), mRNA [NM_019417]	0.18	0.039	1.000	-0.65	0.000	0.017
Gm10313	XM_001473650	ref PREDICTED: Mus musculus similar to LOC654472 protein (LOC100039875), mRNA [XM_001473650]	0.17	0.029	0.987	-0.35	0.005	0.148
Gm5732	XR_005028	ref PREDICTED: Mus musculus similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (LOC435963), misc RNA [XR_005028]	0.16	0.047	1.000	-0.46	0.001	0.054
Gm12070	NR_002890	ref Mus musculus predicted gene 12070 (Gm12070), non-coding RNA [NR_002890]	0.16	0.033	1.000	-0.23	0.016	0.273
Mycbp	NM_019660	ref Mus musculus c-myc binding protein (Mycbp), mRNA [NM_019660]	0.15	0.048	1.000	-0.20	0.044	0.432
Arl4a	NM_001039515	ref Mus musculus ADP-ribosylation factor-like 4A (Arl4a), transcript variant 2, mRNA [NM_001039515]	-0.15	0.045	1.000	0.39	0.031	0.367
Ndr1	NM_008681	ref Mus musculus N-myc downstream regulated gene 1 (Ndr1), mRNA [NM_008681]	-0.16	0.049	1.000	0.27	0.048	0.451

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Slco2b1	NM_175316	ref Mus musculus solute carrier organic anion transporter family, member 2b1 (Slco2b1), mRNA [NM_175316]	-0.16	0.043	1.000	0.29	0.010	0.209
Abcg2	NM_011920	ref Mus musculus ATP-binding cassette, sub-family G (WHITE), member 2 (Abcg2), mRNA [NM_011920]	-0.16	0.043	1.000	0.47	0.003	0.106
Sorbs1	NM_178362	ref Mus musculus sorbin and SH3 domain containing 1 (Sorbs1), transcript variant 2, mRNA [NM_178362]	-0.17	0.030	0.998	0.29	0.013	0.247
Perp	NM_022032	ref Mus musculus PERP, TP53 apoptosis effector (Perp), mRNA [NM_022032]	-0.17	0.031	1.000	0.27	0.036	0.394
ENSMUST00000121334	ENSMUST00000121334	ens septin 8 Gene [Source:MGI (curated);Acc:MGI:894310] [ENSMUST00000121334]	-0.17	0.031	1.000	0.33	0.001	0.071
Nsmce2	NM_026746	ref Mus musculus non-SMC element 2 homolog (MMS21, S. cerevisiae) (Nsmce2), transcript variant 1, mRNA [NM_026746]	-0.17	0.025	0.966	0.19	0.045	0.441
chr17:35080914-35090009_R	chr17:35080914-35090009_R	lincRNA:chr17:35080914-35090009 reverse strand	-0.18	0.034	1.000	0.29	0.033	0.376
Ilvbl	NM_173751	ref Mus musculus ilvB (bacterial acetolactate synthase)-like (Ilvbl), mRNA [NM_173751]	-0.18	0.016	0.851	0.23	0.012	0.234
Lpar6	AK032901	gb Mus musculus 12 days embryo male wolffian duct includes surrounding region cDNA, RIKEN full-length enriched library, clone:6720469P13 product:P2Y PURINOCEPTOR 5, full insert sequence. [AK032901]	-0.18	0.026	0.971	0.31	0.002	0.104
Golga4	NM_018748	ref Mus musculus golgi autoantigen, golgin subfamily a, 4 (Golga4), mRNA [NM_018748]	-0.18	0.032	1.000	0.22	0.027	0.344
Gm5077	NM_173864	ref Mus musculus predicted gene 5077 (Gm5077), mRNA [NM_173864]	-0.19	0.048	1.000	0.35	0.032	0.373
Sdf4	NM_011341	ref Mus musculus stromal cell derived factor 4 (Sdf4), mRNA [NM_011341]	-0.19	0.017	0.858	0.21	0.022	0.310
Skiv2l	NM_021337	ref Mus musculus superkiller viralicidic activity 2-like (S. cerevisiae) (Skiv2l), mRNA [NM_021337]	-0.19	0.033	1.000	0.21	0.045	0.436
Ms4a4d	NM_025658	ref Mus musculus membrane-spanning 4-domains, subfamily A, member 4D (Ms4a4d), mRNA [NM_025658]	-0.19	0.042	1.000	0.34	0.005	0.147

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
C1s	NM_144938	ref Mus musculus complement component 1, s subcomponent (C1s), transcript variant 1, mRNA [NM_144938]	-0.21	0.031	0.998	0.36	0.031	0.368
Mvp	NM_080638	ref Mus musculus major vault protein (Mvp), mRNA [NM_080638]	-0.21	0.029	0.991	0.26	0.012	0.234
Prl2c1	NM_001045532	ref Mus musculus Prolactin family 2, subfamily c, member 1 (Prl2c1), mRNA [NM_001045532]	-0.22	0.021	0.898	0.67	0.001	0.070
Ly6c1	NM_010741	ref Mus musculus lymphocyte antigen 6 complex, locus C1 (Ly6c1), mRNA [NM_010741]	-0.23	0.025	0.966	0.27	0.040	0.415
Pbxip1	NM_146131	ref Mus musculus pre-B-cell leukemia transcription factor interacting protein 1 (Pbxip1), mRNA [NM_146131]	-0.24	0.005	0.588	0.20	0.043	0.428
Gm6366	XR_030755	ref PREDICTED: Mus musculus similar to protein phosphatase 2A inhibitor-2 I-2PP2A (LOC622870), misc RNA [XR_030755]	-0.25	0.032	1.000	0.51	0.001	0.053
chr11:96111499-96126224_R	chr11:96111499-96126224_R	lincRNA:chr11:96111499-96126224 reverse strand	-0.27	0.011	0.772	0.61	0.002	0.104
Ankrd1	NM_013468	ref Mus musculus ankyrin repeat domain 1 (cardiac muscle) (Ankrd1), mRNA [NM_013468]	-0.28	0.035	1.000	0.42	0.001	0.055
chr18:61781410-61788685_R	chr18:61781410-61788685_R	lincRNA:chr18:61781410-61788685 reverse strand	-0.28	0.012	0.789	0.44	0.015	0.262
Pim3	NM_145478	ref Mus musculus proviral integration site 3 (Pim3), mRNA [NM_145478]	-0.28	0.016	0.848	0.72	0.016	0.274
Ankrd23	NM_153502	ref Mus musculus ankyrin repeat domain 23 (Ankrd23), mRNA [NM_153502]	-0.29	0.028	0.983	0.38	0.006	0.162
Il34	NM_029646	ref Mus musculus interleukin 34 (Il34), transcript variant 2, mRNA [NM_029646]	-0.30	0.001	0.328	0.32	0.024	0.325
C3	NM_009778	ref Mus musculus complement component 3 (C3), mRNA [NM_009778]	-0.31	0.038	1.000	0.79	0.003	0.111
Ankrd23	NM_153502	ref Mus musculus ankyrin repeat domain 23 (Ankrd23), mRNA [NM_153502]	-0.31	0.009	0.720	0.36	0.004	0.140
Hspa1l	NM_013558	ref Mus musculus heat shock protein 1-like (Hspa1l), mRNA [NM_013558]	-0.33	0.004	0.528	0.36	0.034	0.385

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
1110034G24Rik	NM_028637	ref Mus musculus RIKEN cDNA 1110034G24 gene (1110034G24Rik), mRNA [NM_028637]	-0.36	0.039	1.000	0.69	0.035	0.388
Lrrc2	NM_028838	ref Mus musculus leucine rich repeat containing 2 (Lrrc2), mRNA [NM_028838]	-0.36	0.002	0.397	0.34	0.012	0.237
NEAT1	NEAT1	lincRNA:chr19:5842306-5845476 reverse strand	-0.37	0.033	1.000	0.68	0.017	0.277
Neil2	NM_201610	ref Mus musculus nei like 2 (E. coli) (Neil2), mRNA [NM_201610]	-0.37	0.008	0.708	0.62	0.002	0.096
Car4	NM_007607	ref Mus musculus carbonic anhydrase 4 (Car4), mRNA [NM_007607]	-0.38	0.007	0.674	0.87	0.002	0.104
NEAT1	NEAT1	lincRNA:chr19:5842306-5845476 reverse strand	-0.40	0.015	0.830	0.72	0.008	0.190
Glul	NM_008131	ref Mus musculus glutamate-ammonia ligase (glutamine synthetase) (Glul), mRNA [NM_008131]	-0.40	0.001	0.319	0.58	0.018	0.284
Lrrc2	NM_028838	ref Mus musculus leucine rich repeat containing 2 (Lrrc2), mRNA [NM_028838]	-0.40	0.001	0.205	0.33	0.010	0.208
NEAT1	NEAT1	lincRNA:chr19:5842306-5845476 reverse strand	-0.42	0.025	0.960	0.67	0.011	0.228
Gm4949	XM_001478918	ref PREDICTED: Mus musculus similar to glutamine synthetase (LOC240219), mRNA [XM_001478918]	-0.43	0.001	0.263	0.59	0.032	0.374
NEAT1	NEAT1	lincRNA:chr19:5842306-5845476 reverse strand	-0.44	0.010	0.762	0.74	0.006	0.165
Gdf15	NM_011819	ref Mus musculus growth differentiation factor 15 (Gdf15), mRNA [NM_011819]	-0.44	0.045	1.000	1.05	0.004	0.130
A530016L24Rik	NM_177039	ref Mus musculus RIKEN cDNA A530016L24 gene (A530016L24Rik), mRNA [NM_177039]	-0.45	0.013	0.799	0.31	0.017	0.279
Neat1	NR_003513	ref Mus musculus nuclear paraspeckle assembly transcript 1 (non-protein coding) (Neat1), non-coding RNA [NR_003513]	-0.47	0.006	0.655	0.67	0.009	0.201
NEAT1	NEAT1	lincRNA:chr19:5842306-5845476 reverse strand	-0.49	0.006	0.641	0.66	0.010	0.214
Timp4	NM_080639	ref Mus musculus tissue inhibitor of metalloproteinase 4 (Timp4), mRNA [NM_080639]	-0.66	0.009	0.720	1.45	0.015	0.263
Gsta2	NM_008182	ref Mus musculus glutathione S-transferase, alpha 2 (Yc2) (Gsta2), mRNA [NM_008182]	-0.69	0.003	0.508	1.02	0.023	0.317
Cnksr1	NM_001081047	ref Mus musculus connector enhancer of kinase suppressor of Ras 1 (Cnksr1), mRNA [NM_001081047]	-0.74	0.000	0.004	0.89	0.001	0.061

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
chr9:78107225-78118850_F	chr9:78107225-78118850_F	lincRNA:chr9:78107225-78118850 forward strand	-0.79	0.002	0.409	1.44	0.009	0.199
Gsta1	NM_008181	ref Mus musculus glutathione S-transferase, alpha 1 (Ya) (Gsta1), mRNA [NM_008181]	-0.82	0.002	0.432	1.43	0.011	0.221
Nrn1l	NM_175024	ref Mus musculus neuritin 1-like (Nm1l), mRNA [NM_175024]	-0.82	0.001	0.263	0.46	0.008	0.195
chr9:78104935-78116974_F	chr9:78104935-78116974_F	lincRNA:chr9:78104935-78116974 forward strand	-0.89	0.001	0.263	1.19	0.015	0.263
Serpine1	NM_008871	ref Mus musculus serine (or cysteine) peptidase inhibitor, clade E, member 1 (Serpine1), mRNA [NM_008871]	-0.92	0.000	0.008	2.06	0.000	0.003
chr9:78107225-78118850_F	chr9:78107225-78118850_F	lincRNA:chr9:78107225-78118850 forward strand	-0.93	0.000	0.186	1.47	0.006	0.158
Gm10639	NM_001122660	ref Mus musculus predicted gene 10639 (Gm10639), mRNA [NM_001122660]	-0.96	0.000	0.147	1.17	0.014	0.250
Mrps30	NM_021556	ref Mus musculus mitochondrial ribosomal protein S30 (Mrps30), nuclear gene encoding mitochondrial protein, mRNA [NM_021556]	-0.14	0.048	1.000	-0.16	0.049	0.455
Rnf7	NM_011279	ref Mus musculus ring finger protein 7 (Rnf7), mRNA [NM_011279]	-0.15	0.032	1.000	-0.28	0.020	0.295
chr4:98943050-98959998_F	chr4:98943050-98959998_F	lincRNA:chr4:98943050-98959998 forward strand	-0.16	0.047	1.000	-0.28	0.014	0.250
Gm16510	XM_001473460	ref PREDICTED: Mus musculus similar to High mobility group nucleosomal binding domain 2 (LOC100039766), mRNA [XM_001473460]	-0.17	0.048	1.000	-0.35	0.005	0.152
Prosc	NM_054057	ref Mus musculus proline synthetase co-transcribed (Prosc), transcript variant 1, mRNA [NM_054057]	-0.17	0.044	1.000	-0.22	0.020	0.302
Vipr1	NM_011703	ref Mus musculus vasoactive intestinal peptide receptor 1 (Vipr1), mRNA [NM_011703]	-0.18	0.045	1.000	-0.45	0.006	0.164
Gm13886	XR_034128	ref PREDICTED: Mus musculus similar to Tardbp protein (LOC668744), misc RNA [XR_034128]	-0.18	0.028	0.983	-0.19	0.033	0.377
Adk	NM_134079	ref Mus musculus adenosine kinase (Adk), mRNA [NM_134079]	-0.18	0.041	1.000	-0.25	0.042	0.423

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
LOC100045156	XM_001473861	ref PREDICTED: Mus musculus hypothetical protein LOC100045156 (LOC100045156), mRNA [XM_001473861]	-0.18	0.032	1.000	-0.29	0.005	0.145
5133401N09Rik	NM_198004	ref Mus musculus RIKEN cDNA 5133401N09 gene (5133401N09Rik), transcript variant 1, mRNA [NM_198004]	-0.18	0.032	1.000	-0.26	0.010	0.215
Kctd9	NM_001111028	ref Mus musculus potassium channel tetramerisation domain containing 9 (Kctd9), transcript variant 1, mRNA [NM_001111028]	-0.18	0.033	1.000	-0.20	0.019	0.292
E430025E21Rik	NM_153548	ref Mus musculus RIKEN cDNA E430025E21 gene (E430025E21Rik), mRNA [NM_153548]	-0.18	0.044	1.000	-0.19	0.049	0.455
Nudt8	NM_025529	ref Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 8 (Nudt8), mRNA [NM_025529]	-0.18	0.027	0.982	-0.22	0.043	0.427
Llgl2	NM_145438	ref Mus musculus lethal giant larvae homolog 2 (Drosophila) (Llgl2), mRNA [NM_145438]	-0.18	0.047	1.000	-0.28	0.014	0.253
Itga1	NM_001033228	ref Mus musculus integrin alpha 1 (Itga1), mRNA [NM_001033228]	-0.19	0.050	1.000	-0.36	0.004	0.133
Tie1	NM_011587	ref Mus musculus tyrosine kinase with immunoglobulin-like and EGF-like domains 1 (Tie1), mRNA [NM_011587]	-0.19	0.015	0.832	-0.35	0.006	0.170
H2afv	NM_029938	ref Mus musculus H2A histone family, member V (H2afv), mRNA [NM_029938]	-0.19	0.021	0.909	-0.31	0.001	0.077
Nrbp1	NM_147201	ref Mus musculus nuclear receptor binding protein 1 (Nrbp1), mRNA [NM_147201]	-0.19	0.037	1.000	-0.25	0.019	0.293
Gtf2h2	NM_022011	ref Mus musculus general transcription factor II H, polypeptide 2 (Gtf2h2), mRNA [NM_022011]	-0.19	0.026	0.974	-0.21	0.045	0.441
9430020K01Rik	NM_001081963	ref Mus musculus RIKEN cDNA 9430020K01 gene (9430020K01Rik), mRNA [NM_001081963]	-0.19	0.025	0.965	-0.28	0.003	0.126
5730469M10Rik	NM_027464	ref Mus musculus RIKEN cDNA 5730469M10 gene (5730469M10Rik), mRNA [NM_027464]	-0.20	0.044	1.000	-0.39	0.001	0.076
Gins2	NM_178856	ref Mus musculus GINS complex subunit 2 (Psf2 homolog) (Gins2), mRNA [NM_178856]	-0.20	0.045	1.000	-0.43	0.012	0.231

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Gm3224	XM_001475694	ref PREDICTED: Mus musculus hypothetical protein LOC100041238 (LOC100041238), mRNA [XM_001475694]	-0.20	0.015	0.830	-0.21	0.019	0.290
Lrrc68	NM_199149	ref Mus musculus leucine rich repeat containing 68 (Lrrc68), mRNA [NM_199149]	-0.20	0.014	0.824	-0.20	0.032	0.372
Psmb8	NM_010724	ref Mus musculus proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7) (Psmb8), mRNA [NM_010724]	-0.21	0.042	1.000	-0.29	0.042	0.425
Itpka	NM_146125	ref Mus musculus inositol 1,4,5-trisphosphate 3-kinase A (Itpka), mRNA [NM_146125]	-0.21	0.017	0.860	-0.50	0.004	0.140
Osbp2	NM_152818	ref Mus musculus oxysterol binding protein 2 (Osbp2), mRNA [NM_152818]	-0.21	0.031	0.998	-0.36	0.003	0.113
Gm3051	XM_001476309	ref PREDICTED: Mus musculus hypothetical protein LOC100040936 (LOC100040936), mRNA [XM_001476309]	-0.21	0.012	0.786	-0.24	0.012	0.238
Mum1	NM_023431	ref Mus musculus melanoma associated antigen (mutated) 1 (Mum1), mRNA [NM_023431]	-0.21	0.011	0.782	-0.26	0.014	0.258
Hnrnpa2b1	NM_182650	ref Mus musculus heterogeneous nuclear ribonucleoprotein A2/B1 (Hnmpa2b1), transcript variant 2, mRNA [NM_182650]	-0.22	0.043	1.000	-0.33	0.011	0.218
Med22	NM_011513	ref Mus musculus mediator complex subunit 22 (Med22), transcript variant 1, mRNA [NM_011513]	-0.22	0.031	1.000	-0.23	0.017	0.278
Cpne4	NM_028719	ref Mus musculus copine IV (Cpne4), mRNA [NM_028719]	-0.22	0.037	1.000	-0.26	0.028	0.349
Wbscr16	NM_033572	ref Mus musculus Williams-Beuren syndrome chromosome region 16 homolog (human) (Wbscr16), mRNA [NM_033572]	-0.22	0.007	0.677	-0.21	0.029	0.358
Rad51ap1	NM_009013	ref Mus musculus RAD51 associated protein 1 (Rad51ap1), mRNA [NM_009013]	-0.22	0.044	1.000	-0.49	0.004	0.138
chr6:116092274-116144199_R	chr6:116092274-116144199_R	lincRNA:chr6:116092274-116144199 reverse strand	-0.22	0.027	0.983	-0.21	0.041	0.420
Sft2d2	NM_145512	ref Mus musculus SFT2 domain containing 2 (Sft2d2), mRNA [NM_145512]	-0.22	0.006	0.661	-0.26	0.009	0.199

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Plxnb3	NM_019587	ref Mus musculus plexin B3 (Plxnb3), mRNA [NM_019587]	-0.22	0.037	1.000	-0.60	0.003	0.118
Slc4a3	NM_009208	ref Mus musculus solute carrier family 4 (anion exchanger), member 3 (Slc4a3), mRNA [NM_009208]	-0.23	0.011	0.773	-0.34	0.003	0.105
ND6	ENSMUST00000082419	ens mitochondrially encoded NADH dehydrogenase 6 Gene [Source:MGI Symbol;Acc:MGI:102495] [ENSMUST00000082419]	-0.23	0.046	1.000	-0.37	0.026	0.341
Bend5	NM_026279	ref Mus musculus BEN domain containing 5 (Bend5), transcript variant 1, mRNA [NM_026279]	-0.24	0.037	1.000	-0.43	0.038	0.402
BC004004	NM_030561	ref Mus musculus cDNA sequence BC004004 (BC004004), mRNA [NM_030561]	-0.24	0.015	0.830	-0.24	0.011	0.226
Pick1	NM_008837	ref Mus musculus protein interacting with C kinase 1 (Pick1), transcript variant 1, mRNA [NM_008837]	-0.24	0.010	0.762	-0.22	0.026	0.340
Abcb1b	NM_011075	ref Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 1B (Abcb1b), mRNA [NM_011075]	-0.25	0.019	0.881	-0.31	0.022	0.310
Sec14l5	NM_001127725	ref Mus musculus SEC14-like 5 (S. cerevisiae) (Sec14l5), mRNA [NM_001127725]	-0.25	0.017	0.863	-0.26	0.016	0.272
Rnf13	NM_001113413	ref Mus musculus ring finger protein 13 (Rnf13), transcript variant 1, mRNA [NM_001113413]	-0.26	0.004	0.559	-0.20	0.035	0.388
Ogdh	NM_010956	ref Mus musculus oxoglutarate dehydrogenase (lipoamide) (Ogdh), nuclear gene encoding mitochondrial protein, mRNA [NM_010956]	-0.26	0.015	0.826	-0.22	0.037	0.400
chr16:30170306-30223193_F	chr16:30170306-30223193_F	lincRNA:chr16:30170306-30223193 forward strand	-0.27	0.025	0.957	-0.29	0.030	0.365
Sort1	NM_019972	ref Mus musculus sortilin 1 (Sort1), mRNA [NM_019972]	-0.28	0.013	0.810	-0.28	0.034	0.385
chr4:59093718-59108018_F	chr4:59093718-59108018_F	lincRNA:chr4:59093718-59108018 forward strand	-0.28	0.047	1.000	-0.29	0.027	0.347
E430024P14Rik	BY763003	gb BY763003 RIKEN full-length enriched, 2 days neonate thymus thymic cells (NOD) Mus musculus cDNA clone E430024P14 3'. [BY763003]	-0.29	0.044	1.000	-0.42	0.029	0.358
chr17:9898206-9919226_R	chr17:9898206-9919226_R	lincRNA:chr17:9898206-9919226 reverse strand	-0.29	0.042	1.000	-0.38	0.048	0.451

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Paip2b	NM_146169	ref Mus musculus poly(A) binding protein interacting protein 2B (Paip2b), mRNA [NM_146169]	-0.29	0.002	0.405	-0.39	0.004	0.128
Zfyve28	NM_001015039	ref Mus musculus zinc finger, FYVE domain containing 28 (Zfyve28), mRNA [NM_001015039]	-0.29	0.033	1.000	-0.30	0.024	0.327
1700022A21Rik	NR_003953	ref Mus musculus RIKEN cDNA 1700022A21 gene (1700022A21Rik), non-coding RNA [NR_003953]	-0.29	0.013	0.808	-0.34	0.036	0.394
Lnpep	NM_172827	ref Mus musculus leucyl/cystinyl aminopeptidase (Lnpep), mRNA [NM_172827]	-0.29	0.006	0.632	-0.38	0.001	0.078
Tmem52	ENSMUST00000023920	ens transmembrane protein 52 Gene [Source:MGI (curated);Acc:MGI:1916921] [ENSMUST00000023920]	-0.30	0.046	1.000	-1.04	0.001	0.053
Abcc8	NM_011510	ref Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 8 (Abcc8), mRNA [NM_011510]	-0.30	0.002	0.391	-0.46	0.021	0.306
Epm2a	NM_010146	ref Mus musculus epilepsy, progressive myoclonic epilepsy, type 2 gene alpha (Epm2a), mRNA [NM_010146]	-0.30	0.040	1.000	-0.53	0.009	0.205
chr5:111612191-111652286_F	chr5:111612191-111652286_F	lincRNA:chr5:111612191-111652286 forward strand	-0.30	0.027	0.983	-0.23	0.036	0.395
Ankdd1a	ENSMUST000000061766	ref PREDICTED: Mus musculus ankyrin repeat and death domain containing 1A (Ankdd1a), mRNA [XM_357954]	-0.32	0.019	0.883	-0.45	0.003	0.120
Tnfrsf19	NM_013869	ref Mus musculus tumor necrosis factor receptor superfamily, member 19 (Tnfrsf19), transcript variant 1, mRNA [NM_013869]	-0.32	0.042	1.000	-0.44	0.025	0.334
Slc46a3	NM_027872	ref Mus musculus solute carrier family 46, member 3 (Slc46a3), mRNA [NM_027872]	-0.32	0.008	0.705	-0.33	0.049	0.455
Bend5	NM_026279	ref Mus musculus BEN domain containing 5 (Bend5), transcript variant 1, mRNA [NM_026279]	-0.32	0.006	0.625	-0.35	0.013	0.239
Pilrb2	NM_001024932	ref Mus musculus paired immunoglobulin-like type 2 receptor beta 2 (Pilrb2), mRNA [NM_001024932]	-0.35	0.021	0.914	-0.50	0.031	0.370
Gm5583	XM_485851	ref PREDICTED: Mus musculus predicted gene, EG434109, transcript variant 1 (EG434109), mRNA [XM_485851]	-0.36	0.038	1.000	-0.52	0.005	0.154

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
chr12:56607657-56613582_F	chr12:56607657-56613582_F	lincRNA:chr12:56607657-56613582 forward strand	-0.37	0.024	0.957	-0.35	0.042	0.423
Gm6458	XR_031488	ref PREDICTED: Mus musculus similar to Expressed sequence AI840826 (LOC623872), misc RNA [XR_031488]	-0.38	0.043	1.000	-0.35	0.028	0.349
ENSMUST00000100305	ENSMUST00000100305	ens helicase with zinc finger domain Gene [Source:MGI (curated);Acc:MGI:1925705] [ENSMUST00000100305]	-0.41	0.011	0.777	-0.41	0.012	0.237
chr9:20313342-20323517_F	chr9:20313342-20323517_F	lincRNA:chr9:20313342-20323517 forward strand	-0.42	0.018	0.878	-0.47	0.008	0.194
Sfxn2	NM_053196	ref Mus musculus sideroflexin 2 (Sfxn2), mRNA [NM_053196]	-0.42	0.016	0.848	-0.55	0.027	0.344
Hoxc13	NM_010464	ref Mus musculus homeobox C13 (Hoxc13), mRNA [NM_010464]	-0.42	0.040	1.000	-0.64	0.006	0.169
chr12:7530807-7866572_R	chr12:7530807-7866572_R	lincRNA:chr12:7530807-7866572 reverse strand	-0.43	0.024	0.957	-0.51	0.005	0.149
Gm3653	XM_001477534	ref PREDICTED: Mus musculus hypothetical protein LOC100042082 (LOC100042082), mRNA [XM_001477534]	-0.44	0.018	0.875	-0.35	0.040	0.414
Gpr158	NM_001004761	ref Mus musculus G protein-coupled receptor 158 (Gpr158), mRNA [NM_001004761]	-0.44	0.008	0.708	-1.24	0.000	0.006
Chrna1	NM_007389	ref Mus musculus cholinergic receptor, nicotinic, alpha polypeptide 1 (muscle) (Chrna1), mRNA [NM_007389]	-0.44	0.003	0.472	-0.44	0.004	0.140
chr17:26911397-26917047_R	chr17:26911397-26917047_R	lincRNA:chr17:26911397-26917047 reverse strand	-0.45	0.030	0.998	-0.35	0.016	0.267
Sla2	NM_029983	ref Mus musculus Src-like-adaptor 2 (Sla2), mRNA [NM_029983]	-0.45	0.018	0.873	-0.41	0.032	0.374
Tas2r129	NM_207029	ref Mus musculus taste receptor, type 2, member 129 (Tas2r129), mRNA [NM_207029]	-0.46	0.023	0.935	-0.61	0.024	0.329
Slc38a5	NM_172479	ref Mus musculus solute carrier family 38, member 5 (Slc38a5), mRNA [NM_172479]	-0.46	0.047	1.000	-0.91	0.007	0.182
Hoxa3	NM_010452	ref Mus musculus homeobox A3 (Hoxa3), mRNA [NM_010452]	-0.48	0.002	0.343	-0.32	0.040	0.415

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Cxx1c	NM_028375	ref Mus musculus CAAX box 1 homolog C (human) (Cxx1c), mRNA [NM_028375]	-0.48	0.002	0.392	-0.41	0.013	0.245
chr1:162933979-162944379_F	chr1:162933979-162944379_F	lincRNA:chr1:162933979-162944379 forward strand	-0.49	0.027	0.981	-0.47	0.039	0.412
Zfyve21	NM_026752	ref Mus musculus zinc finger, FYVE domain containing 21 (Zfyve21), mRNA [NM_026752]	-0.51	0.000	0.012	-0.36	0.017	0.280
Tigit	NM_001146325	ref Mus musculus T cell immunoreceptor with Ig and ITIM domains (Tigit), mRNA [NM_001146325]	-0.51	0.043	1.000	-0.49	0.046	0.444
chr7:48854599-48868579_F	chr7:48854599-48868579_F	lincRNA:chr7:48854599-48868579 forward strand	-0.51	0.038	1.000	-0.50	0.038	0.402
chr7:137669440-137672712_F	chr7:137669440-137672712_F	lincRNA:chr7:137669440-137672712 forward strand	-0.53	0.033	1.000	-0.49	0.019	0.294
chrX:18810088-18814982_R	chrX:18810088-18814982_R	lincRNA:chrX:18810088-18814982 reverse strand	-0.55	0.019	0.882	-0.54	0.019	0.289
Rgs7bp	NM_029879	ref Mus musculus regulator of G-protein signalling 7 binding protein (Rgs7bp), mRNA [NM_029879]	-0.57	0.021	0.916	-0.63	0.024	0.326
chr4:63736566-63744848_R	chr4:63736566-63744848_R	lincRNA:chr4:63736566-63744848 reverse strand	-0.58	0.046	1.000	-0.46	0.031	0.368
chr12:88235624-88264465_R	chr12:88235624-88264465_R	lincRNA:chr12:88235624-88264465 reverse strand	-0.62	0.016	0.848	-0.45	0.043	0.427
Phgr1	NM_001145644	ref Mus musculus proline/histidine/glycine-rich 1 (Phgr1), mRNA [NM_001145644]	-0.63	0.016	0.848	-0.33	0.047	0.447
Ppm1k	NM_175523	ref Mus musculus protein phosphatase 1K (PP2C domain containing) (Ppm1k), nuclear gene encoding mitochondrial protein, mRNA [NM_175523]	-0.72	0.000	0.003	-0.26	0.039	0.412
Fgl1	BC029734	gb Mus musculus fibrinogen-like protein 1, mRNA (cDNA clone MGC:25810 IMAGE:4158843), complete cds. [BC029734]	-0.73	0.029	0.991	-0.45	0.041	0.421
E130012A19Rik	NM_175332	ref Mus musculus RIKEN cDNA E130012A19 gene (E130012A19Rik), mRNA [NM_175332]	-0.74	0.000	0.041	-0.72	0.023	0.320
Gm2127	XM_001472779	ref PREDICTED: Mus musculus hypothetical protein LOC100039268 (LOC100039268), mRNA [XM_001472779]	-0.89	0.025	0.966	-0.53	0.033	0.376

Online Supplemental Table IV: mG4H-Veh and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
chr8:34627209-34667814_F	chr8:34627209-34667814_F	lincRNA:chr8:34627209-34667814 forward strand	-0.93	0.041	1.000	-1.11	0.004	0.141
Gm12670	BG080251	gb H3051E04-5 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3051E04 5', mRNA sequence [BG080251]	-1.21	0.028	0.983	-1.16	0.048	0.449

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Hmgcs2	NM_008256	ref Mus musculus 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (Hmgcs2), nuclear gene encoding mitochondrial protein, mRNA [NM_008256]	3.07	0.000	0.000	2.07	0.000	0.123
Hmgcs2	NM_008256	ref Mus musculus 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (Hmgcs2), nuclear gene encoding mitochondrial protein, mRNA [NM_008256]	2.04	0.000	0.000	1.26	0.001	0.199
Fbp2	NM_007994	ref Mus musculus fructose biphosphatase 2 (Fbp2), mRNA [NM_007994]	1.28	0.000	0.000	0.91	0.001	0.169
chr19:36699712-36763966_R	chr19:36699712-36763966_R	lincRNA:chr19:36699712-36763966 reverse strand	1.07	0.000	0.001	0.77	0.001	0.184
Comt1	NM_001111062	ref Mus musculus catechol-O-methyltransferase 1 (Comt1), transcript variant 1, mRNA [NM_001111062]	0.83	0.000	0.002	0.53	0.002	0.280
chr19:36699712-36763966_R	chr19:36699712-36763966_R	lincRNA:chr19:36699712-36763966 reverse strand	0.88	0.000	0.002	0.64	0.001	0.185
Fam183b	NM_029283	ref Mus musculus family with sequence similarity 183, member B (Fam183b), transcript variant 1, mRNA [NM_029283]	1.24	0.000	0.002	1.30	0.001	0.231
Plin2	NM_007408	ref Mus musculus perilipin 2 (Plin2), mRNA [NM_007408]	0.92	0.000	0.003	0.66	0.000	0.083
Rbp7	NM_022020	ref Mus musculus retinol binding protein 7, cellular (Rbp7), mRNA [NM_022020]	0.97	0.000	0.003	0.69	0.002	0.265
Ephx1	NM_010145	ref Mus musculus epoxide hydrolase 1, microsomal (Ephx1), mRNA [NM_010145]	0.84	0.000	0.003	0.62	0.001	0.222
Hsd17b11	NM_053262	ref Mus musculus hydroxysteroid (17-beta) dehydrogenase 11 (Hsd17b11), mRNA [NM_053262]	0.71	0.000	0.003	0.50	0.003	0.281
Btnl9	ENSMUST00000046522	ens butyrophilin-like 9 Gene [Source:MGI (curated);Acc:MGI:2442439] [ENSMUST00000046522]	0.89	0.000	0.003	0.63	0.000	0.115
Cldn15	NM_021719	ref Mus musculus claudin 15 (Cldn15), mRNA [NM_021719]	1.41	0.000	0.003	1.14	0.005	0.349
ENSMUST00000021120	ENSMUST00000021120	ens tripartite motif-containing 47 Gene [Source:MGI (curated);Acc:MGI:1917374] [ENSMUST00000021120]	1.08	0.000	0.003	0.71	0.000	0.064
ENSMUST00000092316	ENSMUST00000092316	ens strawberry notch homolog 2 (Drosophila) Gene [Source:MGI Symbol;Acc:MGI:2448490] [ENSMUST00000092316]	0.92	0.000	0.004	0.97	0.004	0.310

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
1500017E21Rik	AK005275	gb Mus musculus adult male cerebellum cDNA, RIKEN full-length enriched library, clone:1500017E21 product:unclassifiable, full insert sequence. [AK005275]	0.88	0.000	0.004	0.58	0.002	0.263
Slc38a4	NM_027052	ref Mus musculus solute carrier family 38, member 4 (Slc38a4), mRNA [NM_027052]	0.69	0.000	0.004	0.50	0.001	0.183
Angptl4	NM_020581	ref Mus musculus angiopoietin-like 4 (Angptl4), mRNA [NM_020581]	2.44	0.000	0.004	1.54	0.002	0.270
Vwa3a	NM_177697	ref Mus musculus von Willebrand factor A domain containing 3A (Vwa3a), mRNA [NM_177697]	1.07	0.000	0.004	0.52	0.001	0.173
Cyp1a1	NM_009992	ref Mus musculus cytochrome P450, family 1, subfamily a, polypeptide 1 (Cyp1a1), transcript variant 1, mRNA [NM_009992]	2.73	0.000	0.004	2.56	0.001	0.173
Slc6a9	NM_008135	ref Mus musculus solute carrier family 6 (neurotransmitter transporter, glycine), member 9 (Slc6a9), mRNA [NM_008135]	0.84	0.000	0.004	0.77	0.007	0.377
Npr3	NM_008728	ref Mus musculus natriuretic peptide receptor 3 (Npr3), transcript variant 1, mRNA [NM_008728]	0.68	0.000	0.004	0.40	0.034	0.491
Slc6a9	NM_008135	ref Mus musculus solute carrier family 6 (neurotransmitter transporter, glycine), member 9 (Slc6a9), mRNA [NM_008135]	0.98	0.000	0.004	0.84	0.004	0.313
Tnfrsf12a	NM_013749	ref Mus musculus tumor necrosis factor receptor superfamily, member 12a (Tnfrsf12a), transcript variant 1, mRNA [NM_013749]	0.92	0.000	0.004	0.46	0.024	0.457
Trim47	NM_172570	ref Mus musculus tripartite motif-containing 47 (Trim47), mRNA [NM_172570]	1.07	0.000	0.004	0.71	0.000	0.084
Dusp26	NM_025869	ref Mus musculus dual specificity phosphatase 26 (putative) (Dusp26), mRNA [NM_025869]	1.17	0.000	0.004	1.02	0.000	0.148
Nppa	NM_008725	ref Mus musculus natriuretic peptide precursor type A (Nppa), mRNA [NM_008725]	2.36	0.000	0.004	1.57	0.003	0.281
Gsdma	NM_021347	ref Mus musculus gasdermin A (Gsdma), mRNA [NM_021347]	0.69	0.000	0.005	0.46	0.018	0.435
Ctgf	NM_010217	ref Mus musculus connective tissue growth factor (Ctgf), mRNA [NM_010217]	2.03	0.000	0.005	1.58	0.001	0.227

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Per2	NM_011066	ref Mus musculus period homolog 2 (Drosophila) (Per2), mRNA [NM_011066]	1.60	0.000	0.005	1.36	0.011	0.407
Txnip	NM_001009935	ref Mus musculus thioredoxin interacting protein (Txnip), transcript variant 1, mRNA [NM_001009935]	1.26	0.000	0.005	1.26	0.000	0.109
ENSMUST00000107402	ENSMUST00000107402	ens RIKEN cDNA 1110036O03 gene Gene [Source:MGI Symbol;Acc:MGI:1913430] [ENSMUST00000107402]	0.82	0.000	0.006	0.76	0.003	0.281
Cp	NM_007752	ref Mus musculus ceruloplasmin (Cp), transcript variant 2, mRNA [NM_007752]	0.92	0.000	0.006	0.77	0.004	0.312
Slc27a1	NM_011977	ref Mus musculus solute carrier family 27 (fatty acid transporter), member 1 (Slc27a1), mRNA [NM_011977]	0.68	0.000	0.006	0.52	0.007	0.380
chr10:83181374-83249774_F	chr10:83181374-83249774_F	lincRNA:chr10:83181374-83249774 forward strand	0.76	0.000	0.006	0.31	0.048	0.516
Sphk1	NM_025367	ref Mus musculus sphingosine kinase 1 (Sphk1), transcript variant 2, mRNA [NM_025367]	1.13	0.000	0.006	1.09	0.021	0.449
chr3:146645022-146646977_F	chr3:146645022-146646977_F	lincRNA:chr3:146645022-146646977 forward strand	0.72	0.000	0.006	0.63	0.002	0.281
Gfpt2	NM_013529	ref Mus musculus glutamine fructose-6-phosphate transaminase 2 (Gfpt2), mRNA [NM_013529]	0.98	0.000	0.006	0.61	0.003	0.281
Ptp4a1	NM_011200	ref Mus musculus protein tyrosine phosphatase 4a1 (Ptp4a1), mRNA [NM_011200]	0.70	0.000	0.006	0.50	0.001	0.222
Ech1	NM_016772	ref Mus musculus enoyl coenzyme A hydratase 1, peroxisomal (Ech1), mRNA [NM_016772]	0.62	0.000	0.006	0.53	0.001	0.184
Decr1	NM_026172	ref Mus musculus 2,4-dienoyl CoA reductase 1, mitochondrial (Decr1), nuclear gene encoding mitochondrial protein, mRNA [NM_026172]	0.71	0.000	0.007	0.74	0.000	0.088
Elmod3	NM_144917	ref Mus musculus ELMO/CED-12 domain containing 3 (Elmod3), mRNA [NM_144917]	0.60	0.000	0.007	0.44	0.001	0.227
Myc	NM_010849	ref Mus musculus myelocytomatosis oncogene (Myc), transcript variant 1, mRNA [NM_010849]	1.10	0.000	0.008	1.07	0.007	0.370
Txnip	NM_001009935	ref Mus musculus thioredoxin interacting protein (Txnip), transcript variant 1, mRNA [NM_001009935]	1.16	0.000	0.009	1.06	0.000	0.134
Cyp1b1	NM_009994	ref Mus musculus cytochrome P450, family 1, subfamily b, polypeptide 1 (Cyp1b1), mRNA [NM_009994]	1.65	0.000	0.009	1.13	0.022	0.452

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr17:10057283-10075014_F	chr17:10057283-10075014_F	lincRNA:chr17:10057283-10075014 forward strand	1.56	0.000	0.009	0.75	0.019	0.439
6230400D17Rik	AK018074	gb Mus musculus 11 days embryo head cDNA, RIKEN full-length enriched library, clone:6230400D17 product:hypothetical protein, full insert sequence. [AK018074]	0.76	0.000	0.009	0.72	0.000	0.121
chr15:32167516-32174427_R	chr15:32167516-32174427_R	lincRNA:chr15:32167516-32174427 reverse strand	0.57	0.000	0.009	0.46	0.001	0.197
chr10:83181374-83249774_F	chr10:83181374-83249774_F	lincRNA:chr10:83181374-83249774 forward strand	0.78	0.000	0.010	0.36	0.044	0.513
Ugt1a6b	NM_201410	ref Mus musculus UDP glucuronosyltransferase 1 family, polypeptide A6B (Ugt1a6b), mRNA [NM_201410]	0.91	0.000	0.010	0.55	0.010	0.400
Serpina3i	XM_893705	ref PREDICTED: Mus musculus predicted gene, EG628900 (EG628900), mRNA [XM_893705]	1.49	0.000	0.010	1.15	0.031	0.481
Tusc5	NM_177709	ref Mus musculus tumor suppressor candidate 5 (Tusc5), mRNA [NM_177709]	0.95	0.000	0.011	0.57	0.007	0.377
Enc1	NM_007930	ref Mus musculus ectodermal-neural cortex 1 (Enc1), mRNA [NM_007930]	1.03	0.000	0.011	0.81	0.010	0.405
Lipe	NM_010719	ref Mus musculus lipase, hormone sensitive (Lipe), transcript variant 1, mRNA [NM_010719]	1.04	0.000	0.011	0.96	0.007	0.372
Thbs3	NM_013691	ref Mus musculus thrombospondin 3 (Thbs3), mRNA [NM_013691]	0.78	0.000	0.011	0.33	0.034	0.491
6430548M08Rik	NM_172286	ref Mus musculus RIKEN cDNA 6430548M08 gene (6430548M08Rik), transcript variant 1, mRNA [NM_172286]	0.94	0.000	0.011	0.72	0.000	0.084
Gm10638	NR_027829	ref Mus musculus predicted gene 10638 (Gm10638), non-coding RNA [NR_027829]	1.62	0.000	0.012	1.46	0.005	0.342
Corin	NM_016869	ref Mus musculus corin (Corin), transcript variant 1, mRNA [NM_016869]	0.73	0.000	0.012	0.73	0.002	0.262
Adck5	NM_172960	ref Mus musculus aarF domain containing kinase 5 (Adck5), mRNA [NM_172960]	0.62	0.000	0.012	0.39	0.024	0.461
Ptp4a1	NM_011200	ref Mus musculus protein tyrosine phosphatase 4a1 (Ptp4a1), mRNA [NM_011200]	0.71	0.000	0.012	0.60	0.005	0.338

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Arhgdig	NM_008113	ref Mus musculus Rho GDP dissociation inhibitor (GDI) gamma (Arhgdig), mRNA [NM_008113]	0.87	0.000	0.013	0.57	0.015	0.423
Ptp4a1	NM_011200	ref Mus musculus protein tyrosine phosphatase 4a1 (Ptp4a1), mRNA [NM_011200]	0.72	0.000	0.014	0.63	0.008	0.389
Lgals3	NM_001145953	ref Mus musculus lectin, galactose binding, soluble 3 (Lgals3), transcript variant 1, mRNA [NM_001145953]	1.42	0.000	0.014	1.11	0.008	0.391
H19	H19	lincRNA:chr7:149761435-149764019 reverse strand	1.03	0.000	0.014	1.14	0.000	0.141
chr3:146645022-146646977_F	chr3:146645022-146646977_F	lincRNA:chr3:146645022-146646977 forward strand	0.66	0.000	0.014	0.64	0.003	0.306
Nppb	NM_008726	ref Mus musculus natriuretic peptide precursor type B (Nppb), mRNA [NM_008726]	1.30	0.000	0.015	0.62	0.042	0.509
Gadd45g	NM_011817	ref Mus musculus growth arrest and DNA-damage-inducible 45 gamma (Gadd45g), mRNA [NM_011817]	0.99	0.000	0.015	0.59	0.015	0.420
ENSMUST00000115995	ENSMUST00000115995	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3TRN0] [ENSMUST00000115995]	0.52	0.000	0.015	0.34	0.039	0.500
H19	H19	lincRNA:chr7:149761435-149764019 reverse strand	1.04	0.000	0.016	1.11	0.000	0.153
Sgk1	NM_001161845	ref Mus musculus serum/glucocorticoid regulated kinase 1 (Sgk1), transcript variant 1, mRNA [NM_001161845]	0.95	0.000	0.016	0.91	0.001	0.240
Fibin	NM_026271	ref Mus musculus fin bud initiation factor homolog (zebrafish) (Fibin), mRNA [NM_026271]	0.64	0.000	0.017	0.57	0.003	0.288
chr3:146629425-146649125_F	chr3:146629425-146649125_F	lincRNA:chr3:146629425-146649125 forward strand	0.71	0.000	0.017	0.64	0.001	0.227
Gpx3	NM_008161	ref Mus musculus glutathione peroxidase 3 (Gpx3), transcript variant 2, mRNA [NM_008161]	0.81	0.000	0.017	0.79	0.001	0.210
Chkb	NM_007692	ref Mus musculus choline kinase beta (Chkb), mRNA [NM_007692]	0.49	0.000	0.017	0.41	0.019	0.439
Twist2	NM_007855	ref Mus musculus twist homolog 2 (Drosophila) (Twist2), mRNA [NM_007855]	0.57	0.000	0.017	0.46	0.010	0.403
Arid5a	NM_001172205	ref Mus musculus AT rich interactive domain 5A (MRF1-like) (Arid5a), transcript variant 1, mRNA [NM_001172205]	1.42	0.000	0.017	1.10	0.001	0.222

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Adamts1	NM_009621	ref Mus musculus a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 1 (Adamts1), mRNA [NM_009621]	0.87	0.000	0.017	0.79	0.003	0.288
Tgfb2	NM_009367	ref Mus musculus transforming growth factor, beta 2 (Tgfb2), mRNA [NM_009367]	0.96	0.000	0.017	0.56	0.023	0.453
H19	NR_001592	ref Mus musculus H19 fetal liver mRNA (H19), non-coding RNA [NR_001592]	1.09	0.000	0.018	1.19	0.000	0.088
Cpt1a	NM_013495	ref Mus musculus carnitine palmitoyltransferase 1a, liver (Cpt1a), nuclear gene encoding mitochondrial protein, mRNA [NM_013495]	0.61	0.000	0.019	0.41	0.010	0.401
Adam8	NM_007403	ref Mus musculus a disintegrin and metallopeptidase domain 8 (Adam8), mRNA [NM_007403]	1.87	0.000	0.019	1.52	0.028	0.474
Rab15	NM_134050	ref Mus musculus RAB15, member RAS oncogene family (Rab15), mRNA [NM_134050]	1.10	0.000	0.019	0.65	0.003	0.297
Tmtc1	NM_198967	ref Mus musculus transmembrane and tetratricopeptide repeat containing 1 (Tmtc1), mRNA [NM_198967]	0.73	0.000	0.019	0.80	0.002	0.262
chr3:146629425-146649125_F	chr3:146629425-146649125_F	lincRNA:chr3:146629425-146649125 forward strand	0.76	0.000	0.019	0.68	0.002	0.264
Rbm3	NM_001166410	ref Mus musculus RNA binding motif protein 3 (Rbm3), transcript variant 3, mRNA [NM_001166410]	0.51	0.000	0.020	0.66	0.013	0.412
Cat	NM_009804	ref Mus musculus catalase (Cat), mRNA [NM_009804]	0.66	0.000	0.020	0.53	0.009	0.398
LOC100046468	XM_001477130	ref PREDICTED: Mus musculus hypothetical protein LOC100046468 (LOC100046468), mRNA [XM_001477130]	0.57	0.000	0.021	0.44	0.001	0.184
Serpina3n	NM_009252	ref Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 3N (Serpina3n), mRNA [NM_009252]	2.10	0.000	0.021	1.60	0.029	0.477
Grn	NM_008175	ref Mus musculus granulin (Gm), mRNA [NM_008175]	0.66	0.000	0.021	0.51	0.016	0.428
chr3:146645022-146646977_F	chr3:146645022-146646977_F	lincRNA:chr3:146645022-146646977 forward strand	0.69	0.000	0.021	0.58	0.003	0.290
Elmod3	NM_144917	ref Mus musculus ELMO/CED-12 domain containing 3 (Elmod3), mRNA [NM_144917]	0.58	0.000	0.021	0.47	0.001	0.208
Sphk1	NM_001172472	ref Mus musculus sphingosine kinase 1 (Sphk1), transcript variant 4, mRNA [NM_001172472]	0.97	0.000	0.022	0.98	0.036	0.495

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Itih4	NM_018746	ref Mus musculus inter alpha-trypsin inhibitor, heavy chain 4 (Itih4), transcript variant 1, mRNA [NM_018746]	1.03	0.000	0.023	0.53	0.034	0.491
Ehd4	NM_133838	ref Mus musculus EH-domain containing 4 (Ehd4), mRNA [NM_133838]	0.54	0.000	0.023	0.65	0.002	0.266
chr3:146515333-146557069_F	chr3:146515333-146557069_F	lincRNA:chr3:146515333-146557069 forward strand	0.82	0.000	0.023	0.77	0.003	0.281
Carhsp1	NM_025821	ref Mus musculus calcium regulated heat stable protein 1 (Carhsp1), mRNA [NM_025821]	0.56	0.000	0.023	0.37	0.025	0.463
Lrrc36	NM_001170788	ref Mus musculus leucine rich repeat containing 36 (Lrrc36), transcript variant 1, mRNA [NM_001170788]	0.67	0.000	0.024	0.40	0.013	0.412
Fstl3	NM_031380	ref Mus musculus follistatin-like 3 (Fstl3), mRNA [NM_031380]	1.03	0.000	0.024	0.59	0.016	0.426
Me1	NM_008615	ref Mus musculus malic enzyme 1, NADP(+)-dependent, cytosolic (Me1), mRNA [NM_008615]	0.47	0.000	0.024	0.41	0.008	0.393
Scarb2	NM_007644	ref Mus musculus scavenger receptor class B, member 2 (Scarb2), mRNA [NM_007644]	0.47	0.000	0.024	0.37	0.005	0.354
Ccl9	NM_011338	ref Mus musculus chemokine (C-C motif) ligand 9 (Ccl9), mRNA [NM_011338]	1.11	0.000	0.024	0.63	0.027	0.471
Fgd3	ENSMUST00000110087	ens FYVE, RhoGEF and PH domain containing 3 Gene [Source:MGI (curated);Acc:MGI:1353657] [ENSMUST00000110087]	0.60	0.000	0.024	0.39	0.006	0.356
Crll1	NM_018827	ref Mus musculus cytokine receptor-like factor 1 (Crll1), mRNA [NM_018827]	1.54	0.000	0.024	1.08	0.013	0.412
Rasgef1b	NM_145839	ref Mus musculus RasGEF domain family, member 1B (Rasgef1b), transcript variant 1, mRNA [NM_145839]	1.17	0.000	0.025	0.96	0.041	0.504
Spink10	NM_177829	ref Mus musculus serine peptidase inhibitor, Kazal type 10 (Spink10), mRNA [NM_177829]	1.22	0.000	0.025	1.25	0.000	0.151
ENSMUST00000098762	ENSMUST00000098762	ens RIKEN cDNA 1700095B22 gene Gene [Source:MGI Symbol;Acc:MGI:1925885] [ENSMUST00000098762]	0.70	0.000	0.025	0.70	0.005	0.354
Fam105b	NM_001013792	ref Mus musculus family with sequence similarity 105, member B (Fam105b), mRNA [NM_001013792]	0.72	0.000	0.026	0.45	0.014	0.412

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Lgals4	NM_010706	ref Mus musculus lectin, galactose binding, soluble 4 (Lgals4), mRNA [NM_010706]	0.78	0.000	0.026	0.45	0.009	0.396
Me1	NM_008615	ref Mus musculus malic enzyme 1, NADP(+)-dependent, cytosolic (Me1), mRNA [NM_008615]	0.45	0.000	0.026	0.32	0.012	0.412
Pitpnm1	NM_001136078	ref Mus musculus phosphatidylinositol transfer protein, membrane-associated 1 (Pitpnm1), transcript variant 2, mRNA [NM_001136078]	0.46	0.000	0.027	0.47	0.019	0.440
4831440E17Rik	NR_030700	ref Mus musculus RIKEN cDNA 4831440E17 gene (4831440E17Rik), non-coding RNA [NR_030700]	0.70	0.000	0.027	0.44	0.017	0.429
Thbs3	NM_013691	ref Mus musculus thrombospondin 3 (Thbs3), mRNA [NM_013691]	0.78	0.000	0.027	0.36	0.028	0.474
H19	H19	lincRNA:chr7:149761435-149764019 reverse strand	1.08	0.000	0.028	1.12	0.000	0.160
H19	H19	lincRNA:chr7:149761435-149764019 reverse strand	0.95	0.000	0.028	1.03	0.001	0.167
Tuba1c	NM_009448	ref Mus musculus tubulin, alpha 1C (Tuba1c), mRNA [NM_009448]	0.63	0.000	0.028	0.45	0.013	0.412
Fads3	NM_021890	ref Mus musculus fatty acid desaturase 3 (Fads3), mRNA [NM_021890]	0.50	0.000	0.028	0.29	0.038	0.499
H19	H19	lincRNA:chr7:149761435-149764019 reverse strand	1.02	0.000	0.028	1.18	0.001	0.167
Cat	NM_009804	ref Mus musculus catalase (Cat), mRNA [NM_009804]	0.73	0.000	0.028	0.65	0.005	0.346
Gm3448	NM_001123367	ref Mus musculus predicted gene 3448 (Gm3448), mRNA [NM_001123367]	0.71	0.000	0.028	0.67	0.001	0.222
Gm428	NM_001081644	ref Mus musculus predicted gene 428 (Gm428), mRNA [NM_001081644]	0.48	0.000	0.028	0.52	0.001	0.222
Nrap	NM_008733	ref Mus musculus nebulin-related anchoring protein (Nrap), transcript variant 2, mRNA [NM_008733]	0.50	0.000	0.028	0.33	0.030	0.477
Elovl1	NM_001039176	ref Mus musculus elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 1 (Elovl1), transcript variant 1, mRNA [NM_001039176]	0.54	0.000	0.028	0.35	0.016	0.426
Tiam2	NM_011878	ref Mus musculus T-cell lymphoma invasion and metastasis 2 (Tiam2), transcript variant 1, mRNA [NM_011878]	0.75	0.000	0.028	0.40	0.019	0.441
Plaur	NM_011113	ref Mus musculus plasminogen activator, urokinase receptor (Plaur), mRNA [NM_011113]	0.79	0.000	0.028	1.02	0.002	0.253

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Chi3l3	NM_009892	ref Mus musculus chitinase 3-like 3 (Chi3l3), mRNA [NM_009892]	1.37	0.000	0.029	1.63	0.002	0.257
Prg4	NM_021400	ref Mus musculus proteoglycan 4 (megakaryocyte stimulating factor, articular superficial zone protein) (Prg4), transcript variant 1, mRNA [NM_021400]	1.76	0.000	0.029	1.34	0.049	0.519
Flnc	NM_001081185	ref Mus musculus filamin C, gamma (Flnc), mRNA [NM_001081185]	0.47	0.000	0.029	0.29	0.014	0.414
Btnl9	NM_172793	ref Mus musculus butyrophilin-like 9 (Btnl9), mRNA [NM_172793]	0.81	0.000	0.029	0.65	0.000	0.084
Ear12	NM_001012766	ref Mus musculus eosinophil-associated, ribonuclease A family, member 12 (Ear12), mRNA [NM_001012766]	0.97	0.000	0.029	1.29	0.010	0.403
Me1	NM_008615	ref Mus musculus malic enzyme 1, NADP(+)-dependent, cytosolic (Me1), mRNA [NM_008615]	0.44	0.000	0.029	0.34	0.010	0.401
Clec4d	NM_010819	ref Mus musculus C-type lectin domain family 4, member d (Clec4d), transcript variant 1, mRNA [NM_010819]	1.84	0.000	0.029	1.71	0.019	0.441
Gpr160	NM_001134385	ref Mus musculus G protein-coupled receptor 160 (Gpr160), transcript variant 1, mRNA [NM_001134385]	1.49	0.000	0.029	1.09	0.012	0.408
chr3:30754871-30776438_F	chr3:30754871-30776438_F	lincRNA:chr3:30754871-30776438 forward strand	0.79	0.000	0.029	0.71	0.026	0.470
Kirrel	NM_001170985	ref Mus musculus kin of IRRE like (Drosophila) (Kirrel), transcript variant 1, mRNA [NM_001170985]	0.39	0.000	0.029	0.28	0.043	0.510
Gm13105	XM_001475876	ref PREDICTED: Mus musculus similar to pol protein (LOC100041144), mRNA [XM_001475876]	1.65	0.000	0.029	1.33	0.031	0.482
Aldh16a1	NM_145954	ref Mus musculus aldehyde dehydrogenase 16 family, member A1 (Aldh16a1), mRNA [NM_145954]	0.41	0.000	0.029	0.35	0.011	0.406
ENSMUST00000114270	ENSMUST00000114270	ens docking protein 7 Gene [Source:MGI (curated);Acc:MGI:3584043] [ENSMUST00000114270]	0.53	0.000	0.030	0.36	0.014	0.414
ENSMUST00000066583	ENSMUST00000066583	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q8CBC5] [ENSMUST00000066583]	0.84	0.000	0.030	0.41	0.040	0.504
Cxcr6	NM_030712	ref Mus musculus chemokine (C-X-C motif) receptor 6 (Cxcr6), mRNA [NM_030712]	1.41	0.000	0.030	1.02	0.016	0.428

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Gm3992	XM_001478693	ref PREDICTED: Mus musculus similar to Discs, large homolog-associated protein 4 (Drosophila) (LOC100042726), mRNA [XM_001478693]	0.45	0.000	0.030	0.41	0.019	0.441
Tacc2	NM_001004468	ref Mus musculus transforming, acidic coiled-coil containing protein 2 (Tacc2), transcript variant 3, mRNA [NM_001004468]	0.94	0.000	0.031	0.71	0.003	0.303
Abca6	NM_147218	ref Mus musculus ATP-binding cassette, sub-family A (ABC1), member 6 (Abca6), transcript variant 1, mRNA [NM_147218]	0.58	0.000	0.031	0.52	0.002	0.257
chr15:32167516-32174417_R	chr15:32167516-32174417_R	lincRNA:chr15:32167516-32174417 reverse strand	0.56	0.000	0.032	0.37	0.016	0.428
Cd63	NM_001042580	ref Mus musculus CD63 antigen (Cd63), transcript variant 1, mRNA [NM_001042580]	0.47	0.000	0.032	0.27	0.014	0.416
Cd300lg	NM_001160711	ref Mus musculus CD300 antigen like family member G (Cd300lg), transcript variant 1, mRNA [NM_001160711]	0.52	0.000	0.032	0.41	0.025	0.467
Lman1l	NM_199222	ref Mus musculus lectin, mannose-binding 1 like (Lman1l), mRNA [NM_199222]	0.94	0.000	0.033	0.62	0.016	0.425
Atp6v1h	NM_133826	ref Mus musculus ATPase, H ⁺ transporting, lysosomal V1 subunit H (Atp6v1h), mRNA [NM_133826]	0.43	0.000	0.034	0.24	0.044	0.513
Sbno2	NM_183426	ref Mus musculus strawberry notch homolog 2 (Drosophila) (Sbno2), mRNA [NM_183426]	0.59	0.000	0.034	0.44	0.007	0.383
Ptp4a1	NM_011200	ref Mus musculus protein tyrosine phosphatase 4a1 (Ptp4a1), mRNA [NM_011200]	0.73	0.000	0.034	0.58	0.007	0.374
Cp	NM_001042611	ref Mus musculus ceruloplasmin (Cp), transcript variant 1, mRNA [NM_001042611]	0.56	0.000	0.034	0.53	0.010	0.403
Tmem212	NM_001164437	ref Mus musculus transmembrane protein 212 (Tmem212), mRNA [NM_001164437]	0.68	0.000	0.034	0.79	0.011	0.406
chr13:21856097-21859200_R	chr13:21856097-21859200_R	lincRNA:chr13:21856097-21859200 reverse strand	2.01	0.000	0.035	1.56	0.023	0.453
Rod1	NM_144904	ref Mus musculus ROD1 regulator of differentiation 1 (S. pombe) (Rod1), transcript variant 1, mRNA [NM_144904]	0.42	0.000	0.035	0.56	0.030	0.478
LOC669787	XM_001473812	ref PREDICTED: Mus musculus similar to avena1 (LOC669787), mRNA [XM_001473812]	0.47	0.000	0.035	0.38	0.011	0.406

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Des	NM_010043	ref Mus musculus desmin (Des), mRNA [NM_010043]	0.49	0.000	0.035	0.42	0.021	0.448
Tpbg	NM_011627	ref Mus musculus trophoblast glycoprotein (Tpbg), transcript variant 1, mRNA [NM_011627]	0.82	0.000	0.035	0.61	0.038	0.499
Ptp4a3	NM_008975	ref Mus musculus protein tyrosine phosphatase 4a3 (Ptp4a3), transcript variant 2, mRNA [NM_008975]	0.53	0.000	0.035	0.48	0.007	0.382
Hyi	NM_026601	ref Mus musculus hydroxypyruvate isomerase homolog (E. coli) (Hyi), mRNA [NM_026601]	0.56	0.000	0.035	0.41	0.018	0.435
Aldh1a1	NM_013467	ref Mus musculus aldehyde dehydrogenase family 1, subfamily A1 (Aldh1a1), mRNA [NM_013467]	0.73	0.000	0.035	0.62	0.034	0.493
chr5:107504871-107507830_F	chr5:107504871-107507830_F	lincRNA:chr5:107504871-107507830 forward strand	0.70	0.000	0.036	0.68	0.004	0.325
Gstm1	NM_010358	ref Mus musculus glutathione S-transferase, mu 1 (Gstm1), mRNA [NM_010358]	0.50	0.000	0.036	0.47	0.015	0.422
Aox1	NM_009676	ref Mus musculus aldehyde oxidase 1 (Aox1), mRNA [NM_009676]	0.65	0.000	0.036	0.56	0.006	0.365
1810022C23Rik	NM_026947	ref Mus musculus RIKEN cDNA 1810022C23 gene (1810022C23Rik), mRNA [NM_026947]	0.48	0.000	0.037	0.39	0.007	0.377
chr1:183783306-183834531_R	chr1:183783306-183834531_R	lincRNA:chr1:183783306-183834531 reverse strand	0.70	0.000	0.037	0.61	0.011	0.406
Tcf23	NM_053085	ref Mus musculus transcription factor 23 (Tcf23), mRNA [NM_053085]	1.59	0.000	0.037	1.25	0.008	0.389
Lta	NM_010735	ref Mus musculus lymphotoxin A (Lta), mRNA [NM_010735]	0.53	0.000	0.037	0.70	0.028	0.474
Hadha	NM_178878	ref Mus musculus hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit (Hadha), nuclear gene encoding mitochondrial protein, mRNA [NM_178878]	0.49	0.000	0.037	0.39	0.019	0.440
Tgm3	NM_009374	ref Mus musculus transglutaminase 3, E polypeptide (Tgm3), mRNA [NM_009374]	0.76	0.000	0.037	0.61	0.005	0.354
Procr	NM_011171	ref Mus musculus protein C receptor, endothelial (Procr), mRNA [NM_011171]	0.68	0.000	0.037	0.59	0.022	0.452

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Osmr	NM_011019	ref Mus musculus oncostatin M receptor (Osmr), mRNA [NM_011019]	0.79	0.000	0.038	0.40	0.030	0.480
chr1:183783306-183834531_R	chr1:183783306-183834531_R	lincRNA:chr1:183783306-183834531 reverse strand	0.68	0.000	0.039	0.62	0.009	0.398
Cxcr6	NM_030712	ref Mus musculus chemokine (C-X-C motif) receptor 6 (Cxcr6), mRNA [NM_030712]	1.33	0.000	0.039	0.90	0.041	0.505
Gm11758	NM_001097978	ref Mus musculus predicted gene 11758 (Gm11758), mRNA [NM_001097978]	0.49	0.000	0.039	0.51	0.005	0.353
Agt	NM_007428	ref Mus musculus angiotensinogen (serpin peptidase inhibitor, clade A, member 8) (Agt), mRNA [NM_007428]	1.36	0.000	0.039	1.34	0.009	0.398
Eli2	NM_138953	ref Mus musculus elongation factor RNA polymerase II 2 (Eli2), mRNA [NM_138953]	0.58	0.000	0.040	0.51	0.006	0.366
Lyve1	NM_053247	ref Mus musculus lymphatic vessel endothelial hyaluronan receptor 1 (Lyve1), mRNA [NM_053247]	0.99	0.000	0.040	0.79	0.022	0.453
Gldc	NM_138595	ref Mus musculus glycine decarboxylase (Gldc), nuclear gene encoding mitochondrial protein, mRNA [NM_138595]	1.05	0.000	0.040	0.81	0.019	0.437
Ccl6	NM_009139	ref Mus musculus chemokine (C-C motif) ligand 6 (Ccl6), mRNA [NM_009139]	1.35	0.000	0.041	0.97	0.019	0.437
Gm2627	XM_001474216	ref PREDICTED: Mus musculus similar to gag protein (LOC100040148), mRNA [XM_001474216]	1.76	0.000	0.041	1.38	0.019	0.439
Zfp352	NM_153102	ref Mus musculus zinc finger protein 352 (Zfp352), mRNA [NM_153102]	0.64	0.000	0.042	0.52	0.014	0.412
Atf3	NM_007498	ref Mus musculus activating transcription factor 3 (Atf3), mRNA [NM_007498]	1.52	0.000	0.042	1.27	0.009	0.400
chr14:79311982-79334451_F	chr14:79311982-79334451_F	lincRNA:chr14:79311982-79334451 forward strand	0.65	0.000	0.042	0.61	0.004	0.316
Serpina3f	NM_001168294	ref Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 3F (Serpina3f), transcript variant 1, mRNA [NM_001168294]	0.96	0.000	0.042	0.71	0.001	0.227
Ctla2a	NM_007796	ref Mus musculus cytotoxic T lymphocyte-associated protein 2 alpha (Ctla2a), transcript variant 1, mRNA [NM_007796]	0.50	0.000	0.042	0.44	0.002	0.266

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Cpt1b	NM_009948	ref Mus musculus carnitine palmitoyltransferase 1b, muscle (Cpt1b), nuclear gene encoding mitochondrial protein, mRNA [NM_009948]	0.46	0.000	0.042	0.37	0.014	0.412
Gm4148	XM_001479389	ref PREDICTED: Mus musculus similar to gag protein (LOC100042984), mRNA [XM_001479389]	1.98	0.000	0.042	1.65	0.011	0.407
Fbln5	NM_011812	ref Mus musculus fibulin 5 (Fbln5), mRNA [NM_011812]	0.55	0.000	0.043	0.33	0.023	0.456
Abra	NM_175456	ref Mus musculus actin-binding Rho activating protein (Abra), mRNA [NM_175456]	0.92	0.000	0.043	0.60	0.008	0.390
Ear2	NM_007895	ref Mus musculus eosinophil-associated, ribonuclease A family, member 2 (Ear2), mRNA [NM_007895]	1.06	0.000	0.043	1.42	0.008	0.393
Itih3	NM_008407	ref Mus musculus inter-alpha trypsin inhibitor, heavy chain 3 (Itih3), mRNA [NM_008407]	0.84	0.000	0.043	0.95	0.013	0.412
Mpzi2	NM_007962	ref Mus musculus myelin protein zero-like 2 (Mpzi2), mRNA [NM_007962]	0.98	0.000	0.043	0.94	0.015	0.421
Synpo	NM_001109975	ref Mus musculus synaptopodin (Synpo), transcript variant B, mRNA [NM_001109975]	0.59	0.000	0.043	0.47	0.001	0.233
Rhou	NM_133955	ref Mus musculus ras homolog gene family, member U (Rhou), mRNA [NM_133955]	0.79	0.000	0.043	0.52	0.035	0.494
chr15:32167516-32174427_R	chr15:32167516-32174427_R	lincRNA:chr15:32167516-32174427 reverse strand	0.49	0.000	0.043	0.31	0.025	0.467
Ccbp2	NM_021609	ref Mus musculus chemokine binding protein 2 (Ccbp2), mRNA [NM_021609]	0.75	0.000	0.043	0.55	0.004	0.310
Slc2a2	NM_031197	ref Mus musculus solute carrier family 2 (facilitated glucose transporter), member 2 (Slc2a2), mRNA [NM_031197]	0.57	0.000	0.045	0.57	0.005	0.341
Cpt1b	NM_009948	ref Mus musculus carnitine palmitoyltransferase 1b, muscle (Cpt1b), nuclear gene encoding mitochondrial protein, mRNA [NM_009948]	0.44	0.000	0.045	0.41	0.014	0.418
Erf	NM_010155	ref Mus musculus Ets2 repressor factor (Erf), mRNA [NM_010155]	0.53	0.000	0.045	0.50	0.006	0.356
Enah	NM_010135	ref Mus musculus enabled homolog (Drosophila) (Enah), transcript variant 1, mRNA [NM_010135]	0.47	0.000	0.045	0.32	0.012	0.411

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Rtn4	NM_194054	ref Mus musculus reticulon 4 (Rtn4), transcript variant 1, mRNA [NM_194054]	0.77	0.001	0.046	0.54	0.046	0.513
Tmem43	NM_028766	ref Mus musculus transmembrane protein 43 (Tmem43), mRNA [NM_028766]	0.54	0.001	0.046	0.53	0.011	0.407
Cdc42ep4	NM_020006	ref Mus musculus CDC42 effector protein (Rho GTPase binding) 4 (Cdc42ep4), transcript variant 1, mRNA [NM_020006]	0.89	0.001	0.046	0.62	0.029	0.477
E330037I15Rik	AK087890	gb Mus musculus 2 days pregnant adult female ovary cDNA, RIKEN full-length enriched library, clone:E330037I15 product:hypothetical Proline-rich region profile containing protein, full insert sequence. [AK087890]	2.03	0.001	0.046	1.62	0.000	0.048
Asb4	NM_023048	ref Mus musculus ankyrin repeat and SOCS box-containing 4 (Asb4), mRNA [NM_023048]	0.51	0.001	0.046	0.42	0.010	0.404
Serinc2	NM_172702	ref Mus musculus serine incorporator 2 (Serinc2), mRNA [NM_172702]	0.51	0.001	0.049	0.47	0.024	0.459
A130040M12Rik	NR_002860	ref Mus musculus RIKEN cDNA A130040M12 gene (A130040M12Rik), non-coding RNA [NR_002860]	1.97	0.001	0.049	1.59	0.011	0.407
Ms4a6d	NM_026835	ref Mus musculus membrane-spanning 4-domains, subfamily A, member 6D (Ms4a6d), mRNA [NM_026835]	1.14	0.001	0.049	0.70	0.036	0.495
Hmox1	NM_010442	ref Mus musculus heme oxygenase (decycling) 1 (Hmox1), mRNA [NM_010442]	1.17	0.001	0.049	1.10	0.021	0.449
chr7:86651948-86675223_R	chr7:86651948-86675223_R	lincRNA:chr7:86651948-86675223 reverse strand	0.63	0.001	0.050	0.52	0.001	0.233
Timp3	NM_011595	ref Mus musculus tissue inhibitor of metalloproteinase 3 (Timp3), mRNA [NM_011595]	1.11	0.001	0.050	1.13	0.016	0.426
chr11:97457180-97487074_F	chr11:97457180-97487074_F	lincRNA:chr11:97457180-97487074 forward strand	0.47	0.001	0.050	0.47	0.002	0.279
Gm3651	XM_001477698	ref PREDICTED: Mus musculus similar to gag protein (LOC100042075), mRNA [XM_001477698]	1.80	0.001	0.050	1.45	0.015	0.419
XM_001472371	XM_001472371	ref PREDICTED: Mus musculus RIKEN cDNA 1200016E24 gene (1200016E24Rik), mRNA [XM_001472371]	1.73	0.001	0.051	1.33	0.015	0.423

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Atp13a3	NM_001128094	ref Mus musculus ATPase type 13A3 (Atp13a3), transcript variant 2, mRNA [NM_001128094]	0.53	0.001	0.051	0.59	0.015	0.420
Socs3	NM_007707	ref Mus musculus suppressor of cytokine signaling 3 (Socs3), mRNA [NM_007707]	1.02	0.001	0.051	0.71	0.043	0.510
Pitpnm1	NM_008851	ref Mus musculus phosphatidylinositol transfer protein, membrane-associated 1 (Pitpnm1), transcript variant 1, mRNA [NM_008851]	0.48	0.001	0.051	0.55	0.009	0.398
Ahsg	NM_013465	ref Mus musculus alpha-2-HS-glycoprotein (Ahsg), mRNA [NM_013465]	1.63	0.001	0.051	1.20	0.030	0.477
Rab3b	NM_023537	ref Mus musculus RAB3B, member RAS oncogene family (Rab3b), mRNA [NM_023537]	0.50	0.001	0.053	0.43	0.045	0.513
Arfgap3	NM_025445	ref Mus musculus ADP-ribosylation factor GTPase activating protein 3 (Arfgap3), mRNA [NM_025445]	0.49	0.001	0.053	0.41	0.031	0.482
Uhrf1bp1l	NM_029166	ref Mus musculus UHRF1 (ICBP90) binding protein 1-like (Uhrf1bp1l), mRNA [NM_029166]	0.50	0.001	0.053	0.46	0.005	0.355
Pdpk1	NM_011062	ref Mus musculus 3-phosphoinositide dependent protein kinase-1 (Pdpk1), transcript variant 1, mRNA [NM_011062]	0.43	0.001	0.053	0.29	0.013	0.412
Ednrb	NM_007904	ref Mus musculus endothelin receptor type B (Ednrb), transcript variant 1, mRNA [NM_007904]	0.45	0.001	0.053	0.38	0.027	0.472
2310002L09Rik	NM_027104	ref Mus musculus RIKEN cDNA 2310002L09 gene (2310002L09Rik), transcript variant 2, mRNA [NM_027104]	0.79	0.001	0.053	0.86	0.003	0.281
Cyb5r2	NM_177216	ref Mus musculus cytochrome b5 reductase 2 (Cyb5r2), mRNA [NM_177216]	0.83	0.001	0.054	0.59	0.013	0.412
Fgd3	NM_015759	ref Mus musculus FYVE, RhoGEF and PH domain containing 3 (Fgd3), mRNA [NM_015759]	0.53	0.001	0.054	0.58	0.006	0.369
Hipk3	NM_010434	ref Mus musculus homeodomain interacting protein kinase 3 (Hipk3), transcript variant 1, mRNA [NM_010434]	0.49	0.001	0.054	0.57	0.008	0.393
Snord123	NR_028575	ref Mus musculus small nucleolar RNA, C/D box 123 (Snord123), small nucleolar RNA [NR_028575]	0.41	0.001	0.055	0.41	0.003	0.281

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Rbm3	NM_001166409	ref Mus musculus RNA binding motif protein 3 (Rbm3), transcript variant 2, mRNA [NM_001166409]	0.48	0.001	0.055	0.59	0.028	0.474
Fam124a	ENSMUST00000039064	ref PREDICTED: Mus musculus predicted gene, EG629059 (EG629059), mRNA [XM_127791]	0.59	0.001	0.056	0.49	0.045	0.513
Calr3	NM_028500	ref Mus musculus calreticulin 3 (Calr3), transcript variant 1, mRNA [NM_028500]	0.53	0.001	0.056	0.52	0.048	0.516
Tfpi	NM_001177319	ref Mus musculus tissue factor pathway inhibitor (Tfpi), transcript variant 2, mRNA [NM_001177319]	0.34	0.001	0.056	0.31	0.007	0.383
Picalm	NM_146194	ref Mus musculus phosphatidylinositol binding clathrin assembly protein (Picalm), mRNA [NM_146194]	0.77	0.001	0.056	0.54	0.004	0.313
Mt2	NM_008630	ref Mus musculus metallothionein 2 (Mt2), mRNA [NM_008630]	2.53	0.001	0.056	2.02	0.023	0.454
Lamp2	NM_001017959	ref Mus musculus lysosomal-associated membrane protein 2 (Lamp2), transcript variant 1, mRNA [NM_001017959]	0.57	0.001	0.057	0.62	0.004	0.308
S100a4	NM_011311	ref Mus musculus S100 calcium binding protein A4 (S100a4), mRNA [NM_011311]	0.88	0.001	0.057	0.76	0.039	0.500
Mafk	NM_010757	ref Mus musculus v-maf musculoaponeurotic fibrosarcoma oncogene family, protein K (avian) (Mafk), mRNA [NM_010757]	0.76	0.001	0.057	0.84	0.012	0.407
chr3:146629425-146649125_F	chr3:146629425-146649125_F	lincRNA:chr3:146629425-146649125 forward strand	0.67	0.001	0.058	0.66	0.004	0.308
BC029214	NM_153557	ref Mus musculus cDNA sequence BC029214 (BC029214), mRNA [NM_153557]	0.50	0.001	0.058	0.42	0.019	0.439
Gpihbp1	NM_026730	ref Mus musculus GPI-anchored HDL-binding protein 1 (Gpihbp1), mRNA [NM_026730]	0.65	0.001	0.058	0.52	0.020	0.441
Etv5	NM_023794	ref Mus musculus ets variant gene 5 (Etv5), mRNA [NM_023794]	0.54	0.001	0.058	0.77	0.000	0.037
Serping1	NM_009776	ref Mus musculus serine (or cysteine) peptidase inhibitor, clade G, member 1 (Serping1), mRNA [NM_009776]	0.74	0.001	0.058	0.49	0.044	0.511
Gm11757	NM_001085538	ref Mus musculus predicted gene 11757 (Gm11757), mRNA [NM_001085538]	0.43	0.001	0.059	0.51	0.017	0.432

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Ms4a4a	XM_889011	ref PREDICTED: Mus musculus similar to MS4A4A protein (LOC624461), mRNA [XM_889011]	1.37	0.001	0.059	1.05	0.047	0.514
Cd44	NM_009851	ref Mus musculus CD44 antigen (Cd44), transcript variant 1, mRNA [NM_009851]	0.82	0.001	0.059	0.80	0.012	0.408
Cyp4b1	NM_007823	ref Mus musculus cytochrome P450, family 4, subfamily b, polypeptide 1 (Cyp4b1), mRNA [NM_007823]	0.90	0.001	0.059	0.65	0.046	0.513
chr18:61781410-61788685_R	chr18:61781410-61788685_R	lincRNA:chr18:61781410-61788685 reverse strand	0.60	0.001	0.059	0.45	0.046	0.514
Calr3	NM_028500	ref Mus musculus calreticulin 3 (Calr3), transcript variant 1, mRNA [NM_028500]	0.53	0.001	0.060	0.55	0.031	0.481
Tuba1c	BC022182	gb Mus musculus tubulin, alpha 1C, mRNA (cDNA clone MGC:14067 IMAGE:3661220), complete cds. [BC022182]	0.60	0.001	0.060	0.45	0.006	0.365
Slain2	NM_153567	ref Mus musculus SLAIN motif family, member 2 (Slain2), transcript variant 1, mRNA [NM_153567]	0.35	0.001	0.060	0.34	0.008	0.391
Nbl1	NM_008675	ref Mus musculus neuroblastoma, suppression of tumorigenicity 1 (Nbl1), mRNA [NM_008675]	0.48	0.001	0.060	0.31	0.032	0.484
Vsig4	NM_177789	ref Mus musculus V-set and immunoglobulin domain containing 4 (Vsig4), mRNA [NM_177789]	1.03	0.001	0.060	0.91	0.029	0.477
ENSMUST00000031781	ENSMUST00000031781	ens coiled-coil domain containing 136 Gene [Source:MGI (curated);Acc:MGI:1918128] [ENSMUST00000031781]	0.61	0.001	0.060	0.39	0.045	0.513
Rrbp1	NM_133626	ref Mus musculus ribosome binding protein 1 (Rrbp1), transcript variant 2, mRNA [NM_133626]	0.37	0.001	0.060	0.39	0.027	0.471
Rps6kb1	NM_028259	ref Mus musculus ribosomal protein S6 kinase, polypeptide 1 (Rps6kb1), transcript variant 2, mRNA [NM_028259]	0.79	0.001	0.060	0.85	0.003	0.305
Prx	NM_019412	ref Mus musculus periaxin (Prx), transcript variant 2, mRNA [NM_019412]	0.60	0.001	0.060	0.54	0.017	0.429
Gnl3	NM_153547	ref Mus musculus guanine nucleotide binding protein-like 3 (nucleolar) (Gnl3), transcript variant 1, mRNA [NM_153547]	0.39	0.001	0.060	0.34	0.031	0.481
Podn	NM_172874	ref Mus musculus podocan (Podn), mRNA [NM_172874]	0.57	0.001	0.060	0.40	0.025	0.464

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Gm2708	XM_001474512	ref PREDICTED: Mus musculus hypothetical protein LOC100040315 (LOC100040315), mRNA [XM_001474512]	0.41	0.001	0.060	0.34	0.014	0.415
Gm2251	XM_001472850	ref PREDICTED: Mus musculus similar to gag protein, transcript variant 1 (LOC100039464), mRNA [XM_001472850]	1.34	0.001	0.060	1.11	0.025	0.463
Fam26e	NM_178908	ref Mus musculus family with sequence similarity 26, member E (Fam26e), mRNA [NM_178908]	1.02	0.001	0.061	0.66	0.010	0.400
Bcr	NM_001081412	ref Mus musculus breakpoint cluster region (Bcr), mRNA [NM_001081412]	0.55	0.001	0.061	0.39	0.036	0.495
St6galnac4	NM_011373	ref Mus musculus ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 4 (St6galnac4), mRNA [NM_011373]	0.46	0.001	0.062	0.46	0.003	0.308
Uchl1	NM_011670	ref Mus musculus ubiquitin carboxy-terminal hydrolase L1 (Uchl1), mRNA [NM_011670]	0.82	0.001	0.063	0.76	0.009	0.394
Myom2	NM_008664	ref Mus musculus myomesin 2 (Myom2), mRNA [NM_008664]	0.44	0.001	0.063	0.36	0.012	0.410
Csrnp1	NM_153287	ref Mus musculus cysteine-serine-rich nuclear protein 1 (Csrnp1), mRNA [NM_153287]	0.90	0.001	0.063	1.08	0.032	0.484
chr3:146629425-146649125_F	chr3:146629425-146649125_F	lincRNA:chr3:146629425-146649125 forward strand	0.66	0.001	0.063	0.60	0.008	0.393
BB166591	AK037728	gb Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130042K21 product:unclassifiable, full insert sequence. [AK037728]	1.01	0.001	0.064	0.81	0.012	0.409
Bgn	NM_007542	ref Mus musculus biglycan (Bgn), mRNA [NM_007542]	0.66	0.001	0.064	0.41	0.029	0.477
Ddx21	NM_019553	ref Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 21 (Ddx21), mRNA [NM_019553]	0.60	0.001	0.065	0.62	0.006	0.369
Acadl	NM_007381	ref Mus musculus acyl-Coenzyme A dehydrogenase, long-chain (Acadl), nuclear gene encoding mitochondrial protein, mRNA [NM_007381]	0.41	0.001	0.065	0.35	0.024	0.458
Arhgdig	NM_008113	ref Mus musculus Rho GDP dissociation inhibitor (GDI) gamma (Arhgdig), mRNA [NM_008113]	0.73	0.001	0.066	0.58	0.009	0.398

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Inf2	NM_198411	ref Mus musculus inverted formin, FH2 and WH2 domain containing (Inf2), mRNA [NM_198411]	0.41	0.001	0.066	0.23	0.050	0.519
Tmtc1	NM_198967	ref Mus musculus transmembrane and tetratricopeptide repeat containing 1 (Tmtc1), mRNA [NM_198967]	0.55	0.001	0.066	0.63	0.001	0.173
Dlgap4	NM_146128	ref Mus musculus discs, large homolog-associated protein 4 (Drosophila) (Dlgap4), transcript variant 1, mRNA [NM_146128]	0.36	0.001	0.066	0.28	0.032	0.485
Myh14	NM_028021	ref Mus musculus myosin, heavy polypeptide 14 (Myh14), mRNA [NM_028021]	0.43	0.001	0.067	0.38	0.016	0.425
chr19:56815544-56821403_R	chr19:56815544-56821403_R	lincRNA:chr19:56815544-56821403 reverse strand	0.60	0.001	0.068	0.37	0.016	0.425
chr4:146507925-146532650_R	chr4:146507925-146532650_R	lincRNA:chr4:146507925-146532650 reverse strand	0.45	0.001	0.068	0.43	0.020	0.443
Fam168a	NM_178764	ref Mus musculus family with sequence similarity 168, member A (Fam168a), mRNA [NM_178764]	0.42	0.001	0.068	0.33	0.008	0.391
D2Ert391e	NM_145528	ref Mus musculus DNA segment, Chr 2, ERATO Doi 391, expressed (D2Ert391e), mRNA [NM_145528]	0.71	0.001	0.068	0.71	0.012	0.411
Clip1	NM_019765	ref Mus musculus CAP-GLY domain containing linker protein 1 (Clip1), mRNA [NM_019765]	0.58	0.001	0.068	0.51	0.016	0.428
Elov11	NM_001039176	ref Mus musculus elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 1 (Elov11), transcript variant 1, mRNA [NM_001039176]	0.50	0.001	0.068	0.42	0.012	0.408
chr15:32167516-32174427_R	chr15:32167516-32174427_R	lincRNA:chr15:32167516-32174427 reverse strand	0.47	0.001	0.069	0.39	0.004	0.323
Casz1	NM_027195	ref Mus musculus castor homolog 1, zinc finger (Drosophila) (Casz1), transcript variant 2, mRNA [NM_027195]	0.43	0.001	0.069	0.55	0.001	0.183
1700011I03Rik	NM_029290	ref Mus musculus RIKEN cDNA 1700011I03 gene (1700011I03Rik), mRNA [NM_029290]	1.44	0.001	0.070	1.50	0.045	0.513
8430408G22Rik	NM_145980	ref Mus musculus RIKEN cDNA 8430408G22 gene (8430408G22Rik), transcript variant 1, mRNA [NM_145980]	1.23	0.001	0.070	1.04	0.023	0.453

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Pik3r5	NM_177320	ref Mus musculus phosphoinositide-3-kinase, regulatory subunit 5, p101 (Pik3r5), mRNA [NM_177320]	0.70	0.001	0.070	0.57	0.011	0.407
chr15:32167516-32174427_R	chr15:32167516-32174427_R	lincRNA:chr15:32167516-32174427 reverse strand	0.43	0.001	0.070	0.36	0.014	0.418
4931408A02Rik	NM_027627	ref Mus musculus RIKEN cDNA 4931408A02 gene (4931408A02Rik), mRNA [NM_027627]	1.17	0.001	0.070	1.03	0.033	0.490
Gcnt2	NM_133219	ref Mus musculus glucosaminyl (N-acetyl) transferase 2, l-branching enzyme (Gcnt2), transcript variant 3, mRNA [NM_133219]	0.87	0.001	0.071	0.91	0.016	0.426
Ptpro	NM_011216	ref Mus musculus protein tyrosine phosphatase, receptor type, O (Ptpro), transcript variant 1, mRNA [NM_011216]	0.79	0.001	0.071	0.51	0.002	0.257
chr13:113555055-113564665_F	chr13:113555055-113564665_F	lincRNA:chr13:113555055-113564665 forward strand	0.76	0.001	0.071	0.50	0.018	0.437
Fos	NM_010234	ref Mus musculus FBJ osteosarcoma oncogene (Fos), mRNA [NM_010234]	1.02	0.001	0.072	1.02	0.019	0.437
Pgf	NM_008827	ref Mus musculus placental growth factor (Pgf), mRNA [NM_008827]	0.66	0.001	0.072	0.58	0.042	0.508
Lsr	NM_017405	ref Mus musculus lipolysis stimulated lipoprotein receptor (Lsr), transcript variant 1, mRNA [NM_017405]	0.72	0.001	0.072	0.59	0.017	0.429
chr3:146515333-146557069_F	chr3:146515333-146557069_F	lincRNA:chr3:146515333-146557069 forward strand	0.67	0.001	0.073	0.62	0.018	0.435
AI429363	CF532098	gb UI-M-FY0-cgr-m-18-0-UI.r1 NIH_BMAP_FY0 Mus musculus cDNA clone IMAGE:30363281 5', mRNA sequence [CF532098]	0.63	0.001	0.074	0.40	0.033	0.490
Dennd5a	NM_021494	ref Mus musculus DENN/MADD domain containing 5A (Dennd5a), mRNA [NM_021494]	0.34	0.001	0.074	0.37	0.002	0.281
Vwa5a	NM_172767	ref Mus musculus von Willebrand factor A domain containing 5A (Vwa5a), mRNA [NM_172767]	0.41	0.001	0.074	0.36	0.010	0.401
Pthlh	NM_008970	ref Mus musculus parathyroid hormone-like peptide (Pthlh), mRNA [NM_008970]	0.68	0.001	0.075	0.79	0.035	0.494
Smtnl1	NM_024230	ref Mus musculus smoothelin-like 1 (Smtnl1), mRNA [NM_024230]	0.68	0.001	0.075	0.71	0.006	0.369

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Junb	NM_008416	ref Mus musculus Jun-B oncogene (Junb), mRNA [NM_008416]	0.56	0.001	0.076	0.52	0.038	0.499
Ppp1r15a	NM_008654	ref Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 15A (Ppp1r15a), mRNA [NM_008654]	0.71	0.001	0.076	0.76	0.014	0.418
Ppap2a	NM_008903	ref Mus musculus phosphatidic acid phosphatase type 2A (Ppap2a), transcript variant 2, mRNA [NM_008903]	0.57	0.001	0.077	0.37	0.043	0.511
chr4:146507925-146532650_R	chr4:146507925-146532650_R	lincRNA:chr4:146507925-146532650 reverse strand	0.49	0.001	0.077	0.42	0.009	0.396
Lgals4	NM_010706	ref Mus musculus lectin, galactose binding, soluble 4 (Lgals4), mRNA [NM_010706]	0.77	0.001	0.077	0.49	0.009	0.398
Rpp25	NM_133982	ref Mus musculus ribonuclease P 25 subunit (human) (Rpp25), mRNA [NM_133982]	0.75	0.001	0.078	0.67	0.003	0.299
Spg7	NM_153176	ref Mus musculus spastic paraplegia 7 homolog (human) (Spg7), nuclear gene encoding mitochondrial protein, mRNA [NM_153176]	0.36	0.001	0.078	0.23	0.047	0.515
Acaa2	NM_177470	ref Mus musculus acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase) (Acaa2), nuclear gene encoding mitochondrial protein, mRNA [NM_177470]	0.32	0.001	0.078	0.21	0.038	0.499
Slco2a1	NM_033314	ref Mus musculus solute carrier organic anion transporter family, member 2a1 (Slco2a1), mRNA [NM_033314]	0.48	0.001	0.078	0.43	0.042	0.508
Frzb	NM_011356	ref Mus musculus frizzled-related protein (Frzb), mRNA [NM_011356]	0.59	0.001	0.078	0.35	0.046	0.513
Rad52	NM_011236	ref Mus musculus RAD52 homolog (S. cerevisiae) (Rad52), transcript variant 4, mRNA [NM_011236]	0.55	0.001	0.078	0.51	0.041	0.507
Tlr13	NM_205820	ref Mus musculus toll-like receptor 13 (Tlr13), mRNA [NM_205820]	0.56	0.001	0.078	0.49	0.021	0.450
Adora2b	NM_007413	ref Mus musculus adenosine A2b receptor (Adora2b), mRNA [NM_007413]	0.65	0.001	0.079	0.47	0.008	0.391
Tnfrsf1a	NM_011609	ref Mus musculus tumor necrosis factor receptor superfamily, member 1a (Tnfrsf1a), mRNA [NM_011609]	0.58	0.001	0.079	0.42	0.014	0.414
Hrct1	NM_027511	ref Mus musculus histidine rich carboxyl terminus 1 (Hrct1), mRNA [NM_027511]	0.77	0.001	0.080	0.80	0.019	0.439

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Il4ra	NM_001008700	ref Mus musculus interleukin 4 receptor, alpha (Il4ra), mRNA [NM_001008700]	0.51	0.001	0.080	0.44	0.024	0.459
Tox3	NM_172913	ref Mus musculus TOX high mobility group box family member 3 (Tox3), mRNA [NM_172913]	0.38	0.001	0.080	0.39	0.007	0.382
Mmp17	NM_011846	ref Mus musculus matrix metalloproteinase 17 (Mmp17), mRNA [NM_011846]	0.41	0.002	0.081	0.35	0.008	0.391
Vsig10l	ENSMUST00000107977	ens ZV-set and immunoglobulin domain containing 10 like Gene [Source:MGI (curated);Acc:MGI:1922940] [ENSMUST00000107977]	0.52	0.002	0.082	0.43	0.006	0.366
Fam161b	NM_172581	ref Mus musculus family with sequence similarity 161, member B (Fam161b), mRNA [NM_172581]	0.57	0.002	0.083	0.42	0.020	0.441
Coq10b	NM_001039710	ref Mus musculus coenzyme Q10 homolog B (S. cerevisiae) (Coq10b), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_001039710]	0.45	0.002	0.085	0.35	0.026	0.470
Ctla2b	NM_007797	ref Mus musculus cytotoxic T lymphocyte-associated protein 2 beta (Ctla2b), transcript variant 1, mRNA [NM_007797]	0.50	0.002	0.085	0.43	0.004	0.325
Cyb5r3	NM_029787	ref Mus musculus cytochrome b5 reductase 3 (Cyb5r3), mRNA [NM_029787]	0.41	0.002	0.086	0.32	0.049	0.519
Nr2c2ap	NM_001025586	ref Mus musculus nuclear receptor 2C2-associated protein (Nr2c2ap), transcript variant 1, mRNA [NM_001025586]	0.63	0.002	0.086	0.65	0.004	0.316
chr5:107504871-107507830_F	chr5:107504871-107507830_F	lincRNA:chr5:107504871-107507830 forward strand	0.69	0.002	0.086	0.58	0.032	0.484
ENSMUST00000097978	ENSMUST00000097978	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3V0B3] [ENSMUST00000097978]	1.09	0.002	0.086	0.94	0.016	0.426
Pnp2	NM_001123371	ref Mus musculus purine-nucleoside phosphorylase 2 (Pnp2), mRNA [NM_001123371]	1.17	0.002	0.086	1.25	0.027	0.471
Csnk1d	NM_139059	ref Mus musculus casein kinase 1, delta (Csnk1d), transcript variant 1, mRNA [NM_139059]	0.41	0.002	0.087	0.54	0.024	0.458

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Tmem164	NM_177592	ref Mus musculus transmembrane protein 164 (Tmem164), mRNA [NM_177592]	0.64	0.002	0.088	0.53	0.008	0.391
Cnksr3	NM_172546	ref Mus musculus Cnksr family member 3 (Cnksr3), mRNA [NM_172546]	0.67	0.002	0.089	0.46	0.039	0.501
Serpine2	NM_009255	ref Mus musculus serine (or cysteine) peptidase inhibitor, clade E, member 2 (Serpine2), mRNA [NM_009255]	0.79	0.002	0.091	0.47	0.042	0.507
Apoc2	NM_009695	ref Mus musculus apolipoprotein C-II (Apoc2), mRNA [NM_009695]	1.04	0.002	0.091	1.22	0.005	0.356
Limd1	NM_013860	ref Mus musculus LIM domains containing 1 (Limd1), mRNA [NM_013860]	0.54	0.002	0.091	0.45	0.015	0.419
Hecw2	NM_001001883	ref Mus musculus HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2 (Hecw2), transcript variant 1, mRNA [NM_001001883]	0.57	0.002	0.091	0.35	0.021	0.449
Tiparp	NM_178892	ref Mus musculus TCDD-inducible poly(ADP-ribose) polymerase (Tiparp), mRNA [NM_178892]	0.45	0.002	0.092	0.54	0.030	0.477
Itgb3	NM_016780	ref Mus musculus integrin beta 3 (Itgb3), mRNA [NM_016780]	0.73	0.002	0.093	0.62	0.034	0.493
chr9:118291593-118324230_F	chr9:118291593-118324230_F	lincRNA:chr9:118291593-118324230 forward strand	0.58	0.002	0.093	0.43	0.025	0.464
Rab11b	NM_008997	ref Mus musculus RAB11B, member RAS oncogene family (Rab11b), mRNA [NM_008997]	0.31	0.002	0.093	0.27	0.035	0.495
Fam181b	NM_021427	ref Mus musculus family with sequence similarity 181, member B (Fam181b), mRNA [NM_021427]	0.48	0.002	0.093	0.42	0.008	0.389
chr4:146507925-146532650_R	chr4:146507925-146532650_R	lincRNA:chr4:146507925-146532650 reverse strand	0.50	0.002	0.094	0.47	0.023	0.453
Eif4ebp1	NM_007918	ref Mus musculus eukaryotic translation initiation factor 4E binding protein 1 (Eif4ebp1), mRNA [NM_007918]	0.79	0.002	0.094	0.69	0.019	0.439
Hdac6	NM_010413	ref Mus musculus histone deacetylase 6 (Hdac6), transcript variant 1, mRNA [NM_010413]	0.31	0.002	0.094	0.34	0.005	0.346
Tnfaip6	NM_009398	ref Mus musculus tumor necrosis factor alpha induced protein 6 (Tnfaip6), mRNA [NM_009398]	0.95	0.002	0.094	0.56	0.034	0.493

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr3:62895551-62896444_R	chr3:62895551-62896444_R	lincRNA:chr3:62895551-62896444 reverse strand	0.67	0.002	0.096	0.89	0.001	0.188
Gm2563	XM_001473985	ref PREDICTED: Mus musculus similar to pol protein (LOC100040034), mRNA [XM_001473985]	1.33	0.002	0.096	1.13	0.010	0.400
Gm2805	XR_031827	ref PREDICTED: Mus musculus similar to myosin regulatory light chain-like (LOC100040496), misc RNA [XR_031827]	0.37	0.002	0.096	0.25	0.042	0.507
Azin1	NM_018745	ref Mus musculus antizyme inhibitor 1 (Azin1), transcript variant 2, mRNA [NM_018745]	0.46	0.002	0.097	0.45	0.004	0.308
Tbx20	NM_020496	ref Mus musculus T-box 20 (Tbx20), transcript variant 2, mRNA [NM_020496]	0.66	0.002	0.099	0.81	0.007	0.383
Clca2	NM_030601	ref Mus musculus chloride channel calcium activated 2 (Clca2), mRNA [NM_030601]	0.80	0.002	0.099	0.83	0.026	0.471
Timp1	NM_001044384	ref Mus musculus tissue inhibitor of metalloproteinase 1 (Timp1), transcript variant 1, mRNA [NM_001044384]	1.78	0.002	0.099	1.17	0.013	0.412
Nrxn2	NM_020253	ref Mus musculus neurexin II (Nrxn2), mRNA [NM_020253]	0.60	0.002	0.099	0.42	0.011	0.407
Slc10a3	NM_145406	ref Mus musculus solute carrier family 10 (sodium/bile acid cotransporter family), member 3 (Slc10a3), mRNA [NM_145406]	0.30	0.002	0.100	0.26	0.041	0.507
Tinagl1	NM_023476	ref Mus musculus tubulointerstitial nephritis antigen-like 1 (Tinagl1), transcript variant 1, mRNA [NM_023476]	0.73	0.002	0.100	0.76	0.027	0.472
Baiap2l1	NM_025833	ref Mus musculus BAI1-associated protein 2-like 1 (Baiap2l1), mRNA [NM_025833]	0.42	0.002	0.100	0.26	0.037	0.496
Gdnf	NM_010275	ref Mus musculus glial cell line derived neurotrophic factor (Gdnf), mRNA [NM_010275]	0.59	0.002	0.101	0.75	0.036	0.495
Cilp	NM_173385	ref Mus musculus cartilage intermediate layer protein, nucleotide pyrophosphohydrolase (Cilp), mRNA [NM_173385]	1.41	0.002	0.102	0.90	0.002	0.279
Rbp1	NM_011254	ref Mus musculus retinol binding protein 1, cellular (Rbp1), mRNA [NM_011254]	0.53	0.002	0.102	0.29	0.045	0.513

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Khk	NM_008439	ref Mus musculus ketohexokinase (Khk), mRNA [NM_008439]	0.38	0.002	0.102	0.47	0.000	0.157
Vat1	NM_012037	ref Mus musculus vesicle amine transport protein 1 homolog (T californica) (Vat1), mRNA [NM_012037]	0.38	0.002	0.102	0.30	0.022	0.452
Tinagl1	NM_023476	ref Mus musculus tubulointerstitial nephritis antigen-like 1 (Tinagl1), transcript variant 1, mRNA [NM_023476]	0.75	0.002	0.103	0.65	0.021	0.449
Apod	NM_007470	ref Mus musculus apolipoprotein D (Apod), mRNA [NM_007470]	1.22	0.002	0.103	1.03	0.043	0.509
chr11:51003332-51033057_R	chr11:51003332-51033057_R	lincRNA:chr11:51003332-51033057 reverse strand	0.95	0.002	0.103	0.98	0.008	0.391
Clca1	NM_009899	ref Mus musculus chloride channel calcium activated 1 (Clca1), mRNA [NM_009899]	0.65	0.002	0.104	0.68	0.046	0.513
B4galt1	NM_022305	ref Mus musculus UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 1 (B4galt1), mRNA [NM_022305]	0.44	0.003	0.105	0.42	0.011	0.406
Plin4	NM_020568	ref Mus musculus perilipin 4 (Plin4), mRNA [NM_020568]	0.76	0.003	0.105	0.55	0.046	0.513
Gm11488	XR_031206	ref PREDICTED: Mus musculus similar to heterogeneous nuclear ribonucleoprotein D-like (LOC623115), misc RNA [XR_031206]	0.46	0.003	0.105	0.53	0.010	0.401
Cnnm2	NM_033569	ref Mus musculus cyclin M2 (Cnnm2), transcript variant 1, mRNA [NM_033569]	0.40	0.003	0.105	0.36	0.009	0.393
Dusp27	NM_001033344	ref Mus musculus dual specificity phosphatase 27 (putative) (Dusp27), transcript variant 1, mRNA [NM_001033344]	0.35	0.003	0.105	0.41	0.006	0.369
C77080	NM_001033189	ref Mus musculus expressed sequence C77080 (C77080), mRNA [NM_001033189]	0.38	0.003	0.105	0.30	0.027	0.471
Ace2	NM_001130513	ref Mus musculus angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (Ace2), transcript variant 1, mRNA [NM_001130513]	0.70	0.003	0.105	0.64	0.046	0.513
Gtdc1	NM_172662	ref Mus musculus glycosyltransferase-like domain containing 1 (Gtdc1), mRNA [NM_172662]	0.32	0.003	0.106	0.32	0.038	0.499
Sorbs2	NM_172752	ref Mus musculus sorbin and SH3 domain containing 2 (Sorbs2), mRNA [NM_172752]	0.45	0.003	0.106	0.31	0.042	0.507

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Fgl2	NM_008013	ref[Mus musculus fibrinogen-like protein 2 (Fgl2), mRNA [NM_008013]	0.73	0.003	0.106	0.42	0.029	0.477
Gadd45b	NM_008655	ref[Mus musculus growth arrest and DNA-damage-inducible 45 beta (Gadd45b), mRNA [NM_008655]	0.59	0.003	0.109	0.43	0.050	0.520
chr3:146515333-146557069_F	chr3:146515333-146557069_F	lincRNA:chr3:146515333-146557069 forward strand	0.59	0.003	0.109	0.69	0.011	0.406
Ppfibp1	NM_001170433	ref[Mus musculus PTPRF interacting protein, binding protein 1 (liprin beta 1) (Ppfibp1), transcript variant 1, mRNA [NM_001170433]	0.42	0.003	0.109	0.44	0.015	0.419
Gm2562	XM_001473982	ref[PREDICTED: Mus musculus similar to Ubtg protein (LOC100040033), mRNA [XM_001473982]	1.34	0.003	0.109	1.26	0.008	0.391
Sox17	NM_011441	ref[Mus musculus SRY-box containing gene 17 (Sox17), mRNA [NM_011441]	0.79	0.003	0.111	0.82	0.031	0.480
Star	NM_011485	ref[Mus musculus steroidogenic acute regulatory protein (Star), nuclear gene encoding mitochondrial protein, mRNA [NM_011485]	0.83	0.003	0.112	0.67	0.015	0.421
Anxa1	NM_010730	ref[Mus musculus annexin A1 (Anxa1), mRNA [NM_010730]	0.50	0.003	0.113	0.30	0.020	0.443
Peci	NM_011868	ref[Mus musculus peroxisomal delta3, delta2-enoyl-Coenzyme A isomerase (Peci), transcript variant 2, mRNA [NM_011868]	0.40	0.003	0.114	0.33	0.023	0.456
Magi1	NM_001029850	ref[Mus musculus membrane associated guanylate kinase, WW and PDZ domain containing 1 (Magi1), transcript variant 3, mRNA [NM_001029850]	0.43	0.003	0.114	0.56	0.042	0.507
chr9:118059348-118079494_F	chr9:118059348-118079494_F	lincRNA:chr9:118059348-118079494 forward strand	0.67	0.003	0.114	0.56	0.029	0.477
NEAT2	NEAT2	lincRNA:chr19:5795689-5802671 reverse strand	0.54	0.003	0.115	0.58	0.035	0.495
Tspo	NM_009775	ref[Mus musculus translocator protein (Tspo), mRNA [NM_009775]	0.46	0.003	0.115	0.43	0.028	0.476
Srxn1	NM_029688	ref[Mus musculus sulfiredoxin 1 homolog (S. cerevisiae) (Srxn1), mRNA [NM_029688]	0.52	0.003	0.115	0.39	0.016	0.426
Mr1	NM_008209	ref[Mus musculus major histocompatibility complex, class I-related (Mr1), mRNA [NM_008209]	0.40	0.003	0.115	0.30	0.028	0.475

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr2:150496011-150496503_R	chr2:150496011-150496503_R	lincRNA:chr2:150496011-150496503 reverse strand	0.64	0.003	0.116	0.61	0.002	0.279
Ifit2	NM_008332	ref Mus musculus interferon-induced protein with tetratricopeptide repeats 2 (Ifit2), mRNA [NM_008332]	0.58	0.003	0.116	0.41	0.025	0.463
Ugt1a6b	NM_201410	ref Mus musculus UDP glucuronosyltransferase 1 family, polypeptide A6B (Ugt1a6b), mRNA [NM_201410]	0.59	0.003	0.116	0.35	0.029	0.477
Sema3g	NM_001025379	ref Mus musculus sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G (Sema3g), mRNA [NM_001025379]	0.57	0.003	0.116	0.55	0.041	0.505
Slc37a1	NM_153062	ref Mus musculus solute carrier family 37 (glycerol-3-phosphate transporter), member 1 (Slc37a1), mRNA [NM_153062]	0.51	0.003	0.117	0.57	0.002	0.271
Pmm1	NM_013872	ref Mus musculus phosphomannomutase 1 (Pmm1), mRNA [NM_013872]	0.61	0.003	0.118	0.42	0.022	0.450
Ptpn14	NM_008976	ref Mus musculus protein tyrosine phosphatase, non-receptor type 14 (Ptpn14), mRNA [NM_008976]	1.21	0.003	0.118	0.88	0.017	0.431
Gm1078	ENSMUST00000144863	ens Putative uncharacterized serine/threonine-protein kinase SgK110 (EC 2.7.11.1)(Sugen kinase 110) [Source:UniProtKB/Swiss-Prot;Acc:P0C5K0] [ENSMUST00000144863]	1.57	0.003	0.118	1.42	0.013	0.412
Hecw2	NM_001001883	ref Mus musculus HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2 (Hecw2), transcript variant 1, mRNA [NM_001001883]	0.59	0.003	0.119	0.39	0.027	0.471
Tor3a	NM_023141	ref Mus musculus torsin family 3, member A (Tor3a), mRNA [NM_023141]	0.55	0.003	0.123	0.52	0.008	0.391
Qsox1	NM_001024945	ref Mus musculus quiescin Q6 sulfhydryl oxidase 1 (Qsox1), transcript variant 1, mRNA [NM_001024945]	0.67	0.003	0.124	0.52	0.026	0.469
4930415C11Rik	AI606402	gb mr62b05.y1 Stratagene mouse testis (#937308) Mus musculus cDNA clone IMAGE:602001 5' similar to gb:J03952 Mouse, glutathione transferase GT8.7 mRNA, complete cds (MOUSE);. [AI606402]	0.51	0.003	0.124	0.54	0.037	0.496

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000114667	ENSMUST00000114667	ens teashirt zinc finger family member 1 Gene [Source:MGI Symbol;Acc:MGI:1346031] [ENSMUST00000114667]	0.35	0.003	0.124	0.48	0.009	0.398
Adamtsl4	NM_144899	ref Mus musculus ADAMTS-like 4 (Adamtsl4), mRNA [NM_144899]	0.41	0.003	0.124	0.42	0.021	0.449
Slc40a1	NM_016917	ref Mus musculus solute carrier family 40 (iron-regulated transporter), member 1 (Slc40a1), mRNA [NM_016917]	0.43	0.003	0.124	0.30	0.031	0.482
Ehd4	NM_133838	ref Mus musculus EH-domain containing 4 (Ehd4), mRNA [NM_133838]	0.38	0.004	0.127	0.44	0.003	0.305
Pdzk1ip1	NM_001164557	ref Mus musculus PDZK1 interacting protein 1 (Pdzk1ip1), transcript variant 1, mRNA [NM_001164557]	0.52	0.004	0.127	0.44	0.010	0.404
Tlr7	NM_133211	ref Mus musculus toll-like receptor 7 (Tlr7), mRNA [NM_133211]	0.57	0.004	0.128	0.73	0.002	0.281
Itgb5	NM_010580	ref Mus musculus integrin beta 5 (Itgb5), transcript variant 2, mRNA [NM_010580]	0.34	0.004	0.128	0.38	0.009	0.398
Sfxn3	NM_053197	ref Mus musculus sideroflexin 3 (Sfxn3), transcript variant 1, mRNA [NM_053197]	0.34	0.004	0.128	0.21	0.042	0.507
Klhl13	NM_026167	ref Mus musculus kelch-like 13 (Drosophila) (Klhl13), mRNA [NM_026167]	0.41	0.004	0.128	0.46	0.025	0.467
Ear1	NM_007894	ref Mus musculus eosinophil-associated, ribonuclease A family, member 1 (Ear1), mRNA [NM_007894]	0.84	0.004	0.129	1.15	0.015	0.423
chr11:104304424-104329824_F	chr11:104304424-104329824_F	lincRNA:chr11:104304424-104329824 forward strand	0.70	0.004	0.129	0.56	0.043	0.509
Sltm	NM_026337	ref Mus musculus SAFB-like, transcription modulator (Sltm), transcript variant 2, mRNA [NM_026337]	0.27	0.004	0.129	0.33	0.032	0.485
Drap1	NM_024176	ref Mus musculus Dr1 associated protein 1 (negative cofactor 2 alpha) (Drap1), mRNA [NM_024176]	0.35	0.004	0.129	0.38	0.012	0.409
chr17:85418489-85427364_F	chr17:85418489-85427364_F	lincRNA:chr17:85418489-85427364 forward strand	0.50	0.004	0.129	0.65	0.043	0.511
Itgb1	NM_010578	ref Mus musculus integrin beta 1 (fibronectin receptor beta) (Itgb1), mRNA [NM_010578]	0.32	0.004	0.130	0.29	0.025	0.465

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
1700012B15Rik	NR_015551	ref Mus musculus RIKEN cDNA 1700012B15 gene (1700012B15Rik), non-coding RNA [NR_015551]	0.46	0.004	0.130	0.45	0.039	0.499
Ddi2	NM_001017966	ref Mus musculus DNA-damage inducible protein 2 (Ddi2), mRNA [NM_001017966]	0.43	0.004	0.130	0.54	0.015	0.420
chr10:97196521-97207471_F	chr10:97196521-97207471_F	lincRNA:chr10:97196521-97207471 forward strand	0.65	0.004	0.131	0.51	0.018	0.435
Trpm7	NM_021450	ref Mus musculus transient receptor potential cation channel, subfamily M, member 7 (Trpm7), transcript variant 1, mRNA [NM_021450]	0.38	0.004	0.131	0.41	0.015	0.419
Tmed5	NM_028876	ref Mus musculus transmembrane emp24 protein transport domain containing 5 (Tmed5), mRNA [NM_028876]	0.43	0.004	0.132	0.38	0.022	0.452
Hif3a	NM_016868	ref Mus musculus hypoxia inducible factor 3, alpha subunit (Hif3a), transcript variant 2, mRNA [NM_016868]	1.09	0.004	0.134	0.77	0.032	0.485
Gm12824	NM_001085549	ref Mus musculus predicted gene 12824 (Gm12824), mRNA [NM_001085549]	0.43	0.004	0.135	0.58	0.030	0.477
Dusp4	NM_176933	ref Mus musculus dual specificity phosphatase 4 (Dusp4), mRNA [NM_176933]	0.67	0.004	0.135	1.06	0.024	0.463
Ddi2	NM_001017966	ref Mus musculus DNA-damage inducible protein 2 (Ddi2), mRNA [NM_001017966]	0.49	0.004	0.136	0.57	0.021	0.450
Bnip3	NM_009760	ref Mus musculus BCL2/adenovirus E1B interacting protein 3 (Bnip3), nuclear gene encoding mitochondrial protein, mRNA [NM_009760]	0.60	0.004	0.136	0.70	0.011	0.407
Gja4	NM_008120	ref Mus musculus gap junction protein, alpha 4 (Gja4), mRNA [NM_008120]	0.38	0.004	0.137	0.51	0.031	0.480
Fam46a	NM_001160378	ref Mus musculus family with sequence similarity 46, member A (Fam46a), transcript variant 1, mRNA [NM_001160378]	0.93	0.004	0.137	0.98	0.020	0.447
Acbd5	NM_028793	ref Mus musculus acyl-Coenzyme A binding domain containing 5 (Acbd5), transcript variant 3, mRNA [NM_028793]	0.31	0.004	0.137	0.26	0.043	0.510
Klf11	NM_178357	ref Mus musculus Kruppel-like factor 11 (Klf11), mRNA [NM_178357]	0.47	0.004	0.138	0.58	0.010	0.400

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Tnfrsf1a	NM_011609	ref Mus musculus tumor necrosis factor receptor superfamily, member 1a (Tnfrsf1a), mRNA [NM_011609]	0.43	0.004	0.138	0.34	0.035	0.493
Lin28a	NM_145833	ref Mus musculus lin-28 homolog A (C. elegans) (Lin28a), mRNA [NM_145833]	0.41	0.004	0.138	0.48	0.008	0.390
Hsf4	NM_011939	ref Mus musculus heat shock transcription factor 4 (Hsf4), mRNA [NM_011939]	0.35	0.004	0.138	0.39	0.037	0.496
Tnfaip6	NM_009398	ref Mus musculus tumor necrosis factor alpha induced protein 6 (Tnfaip6), mRNA [NM_009398]	0.84	0.004	0.139	0.76	0.021	0.447
Itga5	NM_010577	ref Mus musculus integrin alpha 5 (fibronectin receptor alpha) (Itga5), mRNA [NM_010577]	0.56	0.004	0.139	0.48	0.044	0.512
B4galt1	NM_022305	ref Mus musculus UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 1 (B4galt1), mRNA [NM_022305]	0.33	0.004	0.139	0.38	0.003	0.281
Pcdh20	NM_178685	ref Mus musculus protocadherin 20 (Pcdh20), mRNA [NM_178685]	0.66	0.004	0.140	0.73	0.005	0.346
Clip1	NM_019765	ref Mus musculus CAP-GLY domain containing linker protein 1 (Clip1), mRNA [NM_019765]	0.48	0.004	0.140	0.40	0.032	0.483
Spock2	NM_052994	ref Mus musculus sparc/osteonectin, cwcv and kazal-like domains proteoglycan 2 (Spock2), mRNA [NM_052994]	1.13	0.004	0.140	1.35	0.011	0.407
Pdlim3	NM_016798	ref Mus musculus PDZ and LIM domain 3 (Pdlim3), mRNA [NM_016798]	0.84	0.004	0.140	0.60	0.017	0.434
Gm3804	XM_001478041	ref PREDICTED: Mus musculus similar to pol protein (LOC100042361), mRNA [XM_001478041]	1.02	0.004	0.141	0.92	0.038	0.498
Acsf2	NM_153807	ref Mus musculus acyl-CoA synthetase family member 2 (Acsf2), mRNA [NM_153807]	0.62	0.005	0.143	0.56	0.041	0.507
Mgst1	NM_019946	ref Mus musculus microsomal glutathione S-transferase 1 (Mgst1), mRNA [NM_019946]	0.77	0.005	0.143	0.84	0.006	0.369
chr4:146507925-146532650_R	chr4:146507925-146532650_R	lincRNA:chr4:146507925-146532650 reverse strand	0.43	0.005	0.143	0.48	0.029	0.477
Mt1	NM_013602	ref Mus musculus metallothionein 1 (Mt1), mRNA [NM_013602]	0.94	0.005	0.144	0.82	0.042	0.507
Efhd2	NM_025994	ref Mus musculus EF hand domain containing 2 (Efhd2), mRNA [NM_025994]	0.75	0.005	0.144	0.71	0.007	0.371

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000036858	ENSMUST00000036858	ens ankyrin repeat and SOCS box-containing 11 Gene [Source:MGI (curated);Acc:MGI:1916104] [ENSMUST00000036858]	0.42	0.005	0.144	0.45	0.022	0.452
EG214403	NM_001029977	ref Mus musculus predicted gene, EG214403 (EG214403), transcript variant 1, mRNA [NM_001029977]	0.74	0.005	0.144	0.61	0.047	0.514
Sqstm1	NM_011018	ref Mus musculus sequestosome 1 (Sqstm1), mRNA [NM_011018]	0.57	0.005	0.144	0.59	0.049	0.519
Txnrd1	NM_001042523	ref Mus musculus thioredoxin reductase 1 (Txnrd1), transcript variant 1, mRNA [NM_001042523]	0.50	0.005	0.145	0.48	0.012	0.408
Tmed5	NM_028876	ref Mus musculus transmembrane emp24 protein transport domain containing 5 (Tmed5), mRNA [NM_028876]	0.43	0.005	0.145	0.44	0.019	0.441
A130040M12Rik	NR_002860	ref Mus musculus RIKEN cDNA A130040M12 gene (A130040M12Rik), non-coding RNA [NR_002860]	1.75	0.005	0.145	1.65	0.015	0.418
chr3:30754871-30776438_F	chr3:30754871-30776438_F	lincRNA:chr3:30754871-30776438 forward strand	0.56	0.005	0.145	0.66	0.010	0.400
Srpx2	NM_026838	ref Mus musculus sushi-repeat-containing protein, X-linked 2 (Srpx2), transcript variant 1, mRNA [NM_026838]	0.63	0.005	0.145	0.75	0.003	0.303
C130057D09Rik	AK081630	gb Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, clone:C130057D09 product:unclassifiable, full insert sequence. [AK081630]	0.45	0.005	0.145	0.31	0.025	0.467
Rab43	NM_001039394	ref Mus musculus RAB43, member RAS oncogene family (Rab43), transcript variant 1, mRNA [NM_001039394]	0.29	0.005	0.145	0.34	0.007	0.379
Pdcd6ip	NM_001164677	ref Mus musculus programmed cell death 6 interacting protein (Pdcd6ip), transcript variant 1, mRNA [NM_001164677]	0.35	0.005	0.145	0.36	0.020	0.443
Nr1d1	NM_145434	ref Mus musculus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA [NM_145434]	0.46	0.005	0.145	0.75	0.029	0.477
Plbd1	NM_025806	ref Mus musculus phospholipase B domain containing 1 (Plbd1), mRNA [NM_025806]	0.37	0.005	0.145	0.30	0.013	0.412
Cul4b	NM_001110142	ref Mus musculus cullin 4B (Cul4b), transcript variant 2, mRNA [NM_001110142]	0.33	0.005	0.146	0.32	0.034	0.493

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Gata6	NM_010258	ref Mus musculus GATA binding protein 6 (Gata6), mRNA [NM_010258]	0.37	0.005	0.146	0.35	0.044	0.512
Jund	NM_010592	ref Mus musculus Jun proto-oncogene related gene d (Jund), mRNA [NM_010592]	0.35	0.005	0.146	0.31	0.018	0.435
Peg3	NM_008817	ref Mus musculus paternally expressed 3 (Peg3), mRNA [NM_008817]	0.56	0.005	0.146	0.42	0.016	0.427
Bcl2l1	NM_009743	ref Mus musculus BCL2-like 1 (Bcl2l1), nuclear gene encoding mitochondrial protein, mRNA [NM_009743]	0.79	0.005	0.147	0.91	0.025	0.466
BC023263	BC023263	gb Mus musculus, clone IMAGE:3979169, mRNA. [BC023263]	0.29	0.005	0.148	0.22	0.045	0.513
5430410E06Rik	XM_001475205	ref PREDICTED: Mus musculus RIKEN cDNA 5430410E06 gene (5430410E06Rik), mRNA [XM_001475205]	0.31	0.005	0.149	0.33	0.045	0.513
Ngef	NM_001111314	ref Mus musculus neuronal guanine nucleotide exchange factor (Ngef), transcript variant 1, mRNA [NM_001111314]	0.95	0.005	0.149	0.50	0.011	0.406
chr1:138570107-138632310_R	chr1:138570107-138632310_R	lincRNA:chr1:138570107-138632310 reverse strand	0.49	0.005	0.150	0.77	0.000	0.090
Cxcl1	NM_008176	ref Mus musculus chemokine (C-X-C motif) ligand 1 (Cxcl1), mRNA [NM_008176]	0.77	0.005	0.152	0.73	0.036	0.495
Usp47	NM_133758	ref Mus musculus ubiquitin specific peptidase 47 (Usp47), mRNA [NM_133758]	0.29	0.005	0.152	0.40	0.005	0.354
Psat1	NM_177420	ref Mus musculus phosphoserine aminotransferase 1 (Psat1), mRNA [NM_177420]	0.63	0.005	0.152	0.46	0.039	0.499
Gda	NM_010266	ref Mus musculus guanine deaminase (Gda), mRNA [NM_010266]	0.46	0.005	0.153	0.39	0.040	0.501
Inhba	NM_008380	ref Mus musculus inhibin beta-A (Inhba), mRNA [NM_008380]	0.70	0.005	0.154	0.65	0.000	0.104
Trnp1	NM_001081156	ref Mus musculus TMF1-regulated nuclear protein 1 (Trnp1), mRNA [NM_001081156]	0.78	0.005	0.154	0.69	0.014	0.412
Rps6ka3	NM_148945	ref Mus musculus ribosomal protein S6 kinase polypeptide 3 (Rps6ka3), mRNA [NM_148945]	0.31	0.005	0.154	0.38	0.015	0.418

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
LOC100039402	XM_001472829	ref PREDICTED: Mus musculus similar to pol protein (LOC100039402), mRNA [XM_001472829]	1.50	0.005	0.155	1.46	0.011	0.406
Stat3	NM_011486	ref Mus musculus signal transducer and activator of transcription 3 (Stat3), transcript variant 3, mRNA [NM_011486]	0.45	0.005	0.156	0.51	0.023	0.454
ENSMUST00000071053	ENSMUST00000071053	ens RIKEN cDNA A730036I17 gene Gene [Source:MGI Symbol;Acc:MGI:3041182] [ENSMUST00000071053]	0.54	0.005	0.156	0.48	0.006	0.369
Ppp1r12c	NM_029834	ref Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 12C (Ppp1r12c), mRNA [NM_029834]	0.61	0.005	0.156	0.57	0.014	0.418
Leprel1	NM_173379	ref Mus musculus leprecan-like 1 (Leprel1), mRNA [NM_173379]	0.68	0.006	0.157	0.57	0.013	0.412
Glipr1	NM_028608	ref Mus musculus GII pathogenesis-related 1 (glioma) (Glipr1), mRNA [NM_028608]	0.62	0.006	0.157	0.44	0.023	0.453
Ptgs2	NM_011198	ref Mus musculus prostaglandin-endoperoxide synthase 2 (Ptgs2), mRNA [NM_011198]	0.49	0.006	0.157	0.55	0.013	0.412
Wnt9b	NM_011719	ref Mus musculus wingless-type MMTV integration site 9B (Wnt9b), mRNA [NM_011719]	0.45	0.006	0.157	0.44	0.017	0.429
1700084D21Rik	XM_001000188	ref PREDICTED: Mus musculus RIKEN cDNA 1700084D21 gene (1700084D21Rik), mRNA [XM_001000188]	0.50	0.006	0.158	0.37	0.030	0.477
C030011L09Rik	AK021067	gb Mus musculus adult male corpus striatum cDNA, RIKEN full-length enriched library, clone:C030011L09 product:unclassifiable, full insert sequence. [AK021067]	0.53	0.006	0.158	0.61	0.004	0.308
Myd88	NM_010851	ref Mus musculus myeloid differentiation primary response gene 88 (Myd88), mRNA [NM_010851]	0.33	0.006	0.158	0.30	0.008	0.391
Gpr176	NM_201367	ref Mus musculus G protein-coupled receptor 176 (Gpr176), mRNA [NM_201367]	0.63	0.006	0.159	0.36	0.047	0.515
D630024D03Rik	AK158188	gb Mus musculus adult inner ear cDNA, RIKEN full-length enriched library, clone:F930039G01 product:unclassifiable, full insert sequence. [AK158188]	0.64	0.006	0.159	0.55	0.009	0.393
ENSMUST00000112253	ENSMUST00000112253	ens Von Willebrand factor homolog Gene [Source:MGI (curated);Acc:MGI:98941] [ENSMUST00000112253]	0.46	0.006	0.161	0.39	0.004	0.324

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Dedd2	NM_207677	ref Mus musculus death effector domain-containing DNA binding protein 2 (Dedd2), mRNA [NM_207677]	0.33	0.006	0.162	0.45	0.023	0.453
Uvrag	NM_178635	ref Mus musculus UV radiation resistance associated gene (Uvrag), mRNA [NM_178635]	0.54	0.006	0.162	0.61	0.004	0.325
Raph1	XM_001479477	ref PREDICTED: Mus musculus Ras association (RalGDS/AF-6) and pleckstrin homology domains 1 (Raph1), mRNA [XM_001479477]	0.57	0.006	0.162	1.05	0.017	0.433
Gm4080	XM_001478955	ref PREDICTED: Mus musculus similar to pol protein (LOC100042868), mRNA [XM_001478955]	1.57	0.006	0.162	1.57	0.009	0.397
Olfir714	NM_147033	ref Mus musculus olfactory receptor 714 (Olfir714), mRNA [NM_147033]	1.20	0.006	0.162	0.91	0.011	0.407
ENSMUST00000100759	ENSMUST00000100759	ref PREDICTED: Mus musculus similar to Sycp3 like Y-linked, transcript variant 2 (LOC100042050), mRNA [XM_001476868]	0.46	0.006	0.164	0.32	0.046	0.513
Hmox1	NM_010442	ref Mus musculus heme oxygenase (decycling) 1 (Hmox1), mRNA [NM_010442]	0.54	0.006	0.164	0.59	0.044	0.512
Apold1	NM_001109914	ref Mus musculus apolipoprotein L domain containing 1 (Apold1), mRNA [NM_001109914]	0.53	0.006	0.165	0.73	0.019	0.437
Ttll7	NM_027594	ref Mus musculus tubulin tyrosine ligase-like family, member 7 (Ttll7), mRNA [NM_027594]	0.68	0.006	0.165	0.58	0.049	0.519
Syt2	NM_009307	ref Mus musculus synaptotagmin II (Syt2), mRNA [NM_009307]	0.89	0.006	0.166	0.69	0.021	0.450
chr9:113676535-113677163_F	chr9:113676535-113677163_F	lincRNA:chr9:113676535-113677163 forward strand	0.49	0.006	0.166	0.30	0.041	0.507
Crlf1	NM_018827	ref Mus musculus cytokine receptor-like factor 1 (Crlf1), mRNA [NM_018827]	0.76	0.006	0.166	0.67	0.033	0.490
Pawr	NM_054056	ref Mus musculus PRKC, apoptosis, WT1, regulator (Pawr), mRNA [NM_054056]	0.46	0.006	0.166	0.46	0.048	0.516
ENSMUST00000061419	ENSMUST00000061419	ens Myelin expression factor 2 (MyEF-2)(MEF-2) [Source:UniProtKB/Swiss-Prot;Acc:Q8C854] [ENSMUST00000061419]	0.57	0.006	0.166	0.50	0.014	0.418

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
2310044G17Rik	NM_173735	ref Mus musculus RIKEN cDNA 2310044G17 gene (2310044G17Rik), transcript variant 1, mRNA [NM_173735]	0.44	0.006	0.168	0.56	0.037	0.496
ENSMUST00000098457	ENSMUST00000098457	ens microtubule associated monooxygenase, calponin and LIM domain containing 3 Gene [Source:MGI (curated);Acc:MGI:2442733] [ENSMUST00000098457]	0.27	0.006	0.169	0.26	0.013	0.412
Galnt6	NM_001161767	ref Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (Galnt6), transcript variant 1, mRNA [NM_001161767]	0.65	0.006	0.170	0.66	0.034	0.493
chr16:90038086-90127636_F	chr16:90038086-90127636_F	lincRNA:chr16:90038086-90127636 forward strand	0.65	0.006	0.170	0.59	0.049	0.519
chr13:70745306-70837331_R	chr13:70745306-70837331_R	lincRNA:chr13:70745306-70837331 reverse strand	0.29	0.007	0.171	0.47	0.036	0.495
chr18:6144775-6202105_R	chr18:6144775-6202105_R	lincRNA:chr18:6144775-6202105 reverse strand	0.29	0.007	0.171	0.25	0.033	0.489
chr17:85418489-85427364_F	chr17:85418489-85427364_F	lincRNA:chr17:85418489-85427364 forward strand	0.50	0.007	0.171	0.80	0.029	0.477
Fbxo30	NM_027968	ref Mus musculus F-box protein 30 (Fbxo30), transcript variant 1, mRNA [NM_027968]	0.48	0.007	0.172	0.70	0.037	0.498
Wdr92	NM_178909	ref Mus musculus WD repeat domain 92 (Wdr92), mRNA [NM_178909]	1.43	0.007	0.172	1.40	0.014	0.415
Gng2	NM_010315	ref Mus musculus guanine nucleotide binding protein (G protein), gamma 2 (Gng2), transcript variant 1, mRNA [NM_010315]	0.36	0.007	0.173	0.33	0.018	0.435
Akap13	NM_029332	ref Mus musculus A kinase (PRKA) anchor protein 13 (Akap13), mRNA [NM_029332]	0.27	0.007	0.173	0.32	0.028	0.474
Golga3	ENSMUST00000112512	ens golgi autoantigen, golgin subfamily a, 3 Gene [Source:MGI (curated);Acc:MGI:96958] [ENSMUST00000112512]	0.30	0.007	0.173	0.25	0.024	0.458
Sox17	NM_011441	ref Mus musculus SRY-box containing gene 17 (Sox17), mRNA [NM_011441]	0.56	0.007	0.174	0.44	0.044	0.513

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Nfkbia	NM_010907	ref Mus musculus nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha (Nfkbia), mRNA [NM_010907]	0.55	0.007	0.176	0.72	0.044	0.511
Nr4a1	NM_010444	ref Mus musculus nuclear receptor subfamily 4, group A, member 1 (Nr4a1), mRNA [NM_010444]	0.83	0.007	0.176	0.80	0.030	0.478
Krt39	NM_213730	ref Mus musculus keratin 39 (Krt39), mRNA [NM_213730]	0.63	0.007	0.177	0.56	0.011	0.406
AA408251	BG076663	gb H3004C07-5 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3004C07 5', mRNA sequence [BG076663]	0.52	0.007	0.178	0.66	0.022	0.450
Gm2034	XM_001472204	ref PREDICTED: Mus musculus similar to pol protein (LOC100039073), mRNA [XM_001472204]	1.51	0.007	0.179	1.47	0.015	0.419
chr17:85422370-85423168_F	chr17:85422370-85423168_F	lincRNA:chr17:85422370-85423168 forward strand	0.56	0.007	0.179	0.81	0.022	0.451
Gm2016	NM_001122662	ref Mus musculus predicted gene 2016 (Gm2016), mRNA [NM_001122662]	0.67	0.007	0.179	0.59	0.020	0.442
Filip1l	NM_001040397	ref Mus musculus filamin A interacting protein 1-like (Filip1l), transcript variant 1, mRNA [NM_001040397]	0.32	0.007	0.179	0.24	0.045	0.513
Ccr1l	NM_145700	ref Mus musculus chemokine (C-C motif) receptor-like 1 (Ccr1l), mRNA [NM_145700]	0.64	0.007	0.179	0.45	0.026	0.471
Retnlg	NM_181596	ref Mus musculus resistin like gamma (Retnlg), mRNA [NM_181596]	1.06	0.007	0.179	1.23	0.029	0.477
Chrm1	NM_001112697	ref Mus musculus cholinergic receptor, muscarinic 1, CNS (Chrm1), transcript variant 1, mRNA [NM_001112697]	0.52	0.007	0.181	0.50	0.029	0.477
Pdpk1	NM_011062	ref Mus musculus 3-phosphoinositide dependent protein kinase-1 (Pdpk1), transcript variant 1, mRNA [NM_011062]	0.40	0.007	0.182	0.36	0.013	0.412
Nptn	NM_009145	ref Mus musculus neuroplastin (Nptn), mRNA [NM_009145]	0.31	0.007	0.182	0.30	0.016	0.423
chr15:77575125-77585575_F	chr15:77575125-77585575_F	lincRNA:chr15:77575125-77585575 forward strand	0.58	0.007	0.182	0.53	0.023	0.456
Alpk2	NM_001037294	ref Mus musculus alpha-kinase 2 (Alpk2), mRNA [NM_001037294]	0.34	0.007	0.182	0.31	0.027	0.472

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Igf1r	NM_010513	ref Mus musculus insulin-like growth factor I receptor (Igf1r), mRNA [NM_010513]	0.73	0.007	0.183	0.73	0.009	0.397
Foxp4	NM_001110824	ref Mus musculus forkhead box P4 (Foxp4), transcript variant 1, mRNA [NM_001110824]	0.33	0.008	0.183	0.47	0.004	0.323
Gm8288	XR_034140	ref PREDICTED: Mus musculus similar to high-mobility group box 1 (LOC666786), misc RNA [XR_034140]	0.92	0.008	0.184	1.12	0.003	0.304
Pam	NM_013626	ref Mus musculus peptidylglycine alpha-amidating monooxygenase (Pam), mRNA [NM_013626]	0.51	0.008	0.185	0.60	0.004	0.335
Mst1r	NM_009074	ref Mus musculus macrophage stimulating 1 receptor (c-met-related tyrosine kinase) (Mst1r), mRNA [NM_009074]	0.38	0.008	0.187	0.27	0.038	0.499
Mgst1	NM_019946	ref Mus musculus microsomal glutathione S-transferase 1 (Mgst1), mRNA [NM_019946]	0.71	0.008	0.189	0.75	0.008	0.390
Pip5k1a	AK167816	gb Mus musculus CRL-1722 L5178Y-R cDNA, RIKEN full-length enriched library, clone:l730030E20 product:unclassifiable, full insert sequence. [AK167816]	1.70	0.008	0.190	1.47	0.044	0.512
chr3:145313275-145315057_F	chr3:145313275-145315057_F	lincRNA:chr3:145313275-145315057 forward strand	0.60	0.008	0.190	0.72	0.011	0.407
chr4:146507925-146532650_R	chr4:146507925-146532650_R	lincRNA:chr4:146507925-146532650 reverse strand	0.47	0.008	0.190	0.45	0.046	0.513
Dennd5a	NM_021494	ref Mus musculus DENN/MADD domain containing 5A (Dennd5a), mRNA [NM_021494]	0.30	0.008	0.191	0.37	0.003	0.281
Zwint	NM_025635	ref Mus musculus ZW10 interactor (Zwint), mRNA [NM_025635]	0.48	0.008	0.192	0.48	0.045	0.513
Aspg	NM_001081169	ref Mus musculus asparaginase homolog (S. cerevisiae) (Aspg), mRNA [NM_001081169]	0.54	0.008	0.192	0.58	0.010	0.403
1600029D21Rik	NM_029639	ref Mus musculus RIKEN cDNA 1600029D21 gene (1600029D21Rik), mRNA [NM_029639]	0.52	0.008	0.192	0.45	0.026	0.471
chr13:3497296-3500441_F	chr13:3497296-3500441_F	lincRNA:chr13:3497296-3500441 forward strand	0.66	0.008	0.192	0.54	0.042	0.508
Dusp1	NM_013642	ref Mus musculus dual specificity phosphatase 1 (Dusp1), mRNA [NM_013642]	0.39	0.008	0.193	0.48	0.027	0.473
Grhl1	NM_145890	ref Mus musculus grainyhead-like 1 (Drosophila) (Grhl1), transcript variant 2, mRNA [NM_145890]	0.61	0.008	0.193	0.62	0.050	0.520

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Herpud2	NM_020586	ref Mus musculus HERPUD family member 2 (Herpud2), mRNA [NM_020586]	0.34	0.008	0.193	0.41	0.014	0.414
Mettl7b	NM_027853	ref Mus musculus methyltransferase like 7B (Mettl7b), mRNA [NM_027853]	0.92	0.008	0.193	1.07	0.009	0.394
Usp46	NM_177561	ref Mus musculus ubiquitin specific peptidase 46 (Usp46), mRNA [NM_177561]	0.31	0.008	0.194	0.45	0.005	0.350
ENSMUST00000121210	ENSMUST00000121210	ens coiled-coil-helix-coiled-coil-helix domain containing 7 Gene [Source:MGI (curated);Acc:MGI:1913683] [ENSMUST00000121210]	0.43	0.008	0.194	0.58	0.010	0.401
chr1:71984564-71985074_R	chr1:71984564-71985074_R	lincRNA:chr1:71984564-71985074 reverse strand	0.62	0.009	0.195	0.76	0.002	0.271
chr13:70745306-70837331_R	chr13:70745306-70837331_R	lincRNA:chr13:70745306-70837331 reverse strand	0.35	0.009	0.195	0.45	0.037	0.498
Nkd2	NM_028186	ref Mus musculus naked cuticle 2 homolog (Drosophila) (Nkd2), mRNA [NM_028186]	0.42	0.009	0.198	0.26	0.044	0.513
Hic2	NM_178922	ref Mus musculus hypermethylated in cancer 2 (Hic2), mRNA [NM_178922]	0.47	0.009	0.198	0.43	0.037	0.498
chr17:15100982-15115630_R	chr17:15100982-15115630_R	lincRNA:chr17:15100982-15115630 reverse strand	0.41	0.009	0.199	0.41	0.030	0.477
C78339	NM_001033192	ref Mus musculus expressed sequence C78339 (C78339), mRNA [NM_001033192]	0.47	0.009	0.199	0.57	0.026	0.470
chr12:9117250-9128800_R	chr12:9117250-9128800_R	lincRNA:chr12:9117250-9128800 reverse strand	0.52	0.009	0.200	0.73	0.001	0.183
Gm10848	AK034833	gb Mus musculus 12 days embryo embryonic body between diaphragm region and neck cDNA, RIKEN full-length enriched library, clone:9430045C13 product:hypothetical protein, full insert sequence. [AK034833]	0.84	0.009	0.200	0.77	0.012	0.411
Gm608	NM_001029889	ref Mus musculus predicted gene 608 (Gm608), mRNA [NM_001029889]	0.45	0.009	0.200	0.36	0.032	0.486
Pou6f1	NM_010127	ref Mus musculus POU domain, class 6, transcription factor 1 (Pou6f1), mRNA [NM_010127]	0.28	0.009	0.200	0.32	0.046	0.513

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Mbd1	NM_013594	ref Mus musculus methyl-CpG binding domain protein 1 (Mbd1), mRNA [NM_013594]	0.50	0.009	0.201	0.43	0.029	0.477
Ahnak	NM_001039959	ref Mus musculus AHNAK nucleoprotein (desmoyokin) (Ahnak), transcript variant 3, mRNA [NM_001039959]	0.40	0.009	0.201	0.53	0.033	0.489
Xirp1	NM_011724	ref Mus musculus xin actin-binding repeat containing 1 (Xirp1), mRNA [NM_011724]	0.59	0.009	0.202	0.42	0.027	0.472
Slc6a6	NM_009320	ref Mus musculus solute carrier family 6 (neurotransmitter transporter, taurine), member 6 (Slc6a6), mRNA [NM_009320]	0.56	0.009	0.203	0.76	0.001	0.246
1700025G04Rik	NM_197990	ref Mus musculus RIKEN cDNA 1700025G04 gene (1700025G04Rik), mRNA [NM_197990]	0.33	0.009	0.203	0.44	0.003	0.281
Rgs2	NM_009061	ref Mus musculus regulator of G-protein signaling 2 (Rgs2), mRNA [NM_009061]	0.47	0.009	0.204	0.52	0.011	0.407
chr17:15100982-15115630_R	chr17:15100982-15115630_R	lincRNA:chr17:15100982-15115630 reverse strand	0.50	0.009	0.204	0.53	0.009	0.394
Slk	NM_009289	ref Mus musculus STE20-like kinase (yeast) (Slk), transcript variant 1, mRNA [NM_009289]	0.34	0.010	0.207	0.38	0.034	0.493
Mical2	NM_177282	ref Mus musculus microtubule associated monooxygenase, calponin and LIM domain containing 2 (Mical2), mRNA [NM_177282]	0.40	0.010	0.207	0.35	0.038	0.499
Loxl4	NM_001164311	ref Mus musculus lysyl oxidase-like 4 (Loxl4), transcript variant 1, mRNA [NM_001164311]	0.71	0.010	0.208	0.58	0.010	0.400
NEAT2	NEAT2	lincRNA:chr19:5795689-5802671 reverse strand	0.51	0.010	0.208	0.63	0.032	0.485
Hhip1	NM_001044380	ref Mus musculus hedgehog interacting protein-like 1 (Hhip1), mRNA [NM_001044380]	0.40	0.010	0.208	0.28	0.042	0.507
Zcchc5	NM_199468	ref Mus musculus zinc finger, CCHC domain containing 5 (Zcchc5), mRNA [NM_199468]	0.72	0.010	0.208	0.54	0.027	0.473
chr17:15132576-15147002_R	chr17:15132576-15147002_R	lincRNA:chr17:15132576-15147002 reverse strand	0.46	0.010	0.209	0.60	0.003	0.290
Gcnt4	NM_001166065	ref Mus musculus glucosaminyl (N-acetyl) transferase 4, core 2 (beta-1,6-N-acetylglucosaminyltransferase) (Gcnt4), mRNA [NM_001166065]	0.41	0.010	0.210	0.38	0.027	0.472

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr6:28870220-28870692_R	chr6:28870220-28870692_R	lincRNA:chr6:28870220-28870692 reverse strand	0.78	0.010	0.210	0.94	0.005	0.353
Foxp4	NM_001110824	ref Mus musculus forkhead box P4 (Foxp4), transcript variant 1, mRNA [NM_001110824]	0.34	0.010	0.210	0.35	0.013	0.412
chr19:23254618-23268776_R	chr19:23254618-23268776_R	lincRNA:chr19:23254618-23268776 reverse strand	0.50	0.010	0.211	0.53	0.035	0.495
chrX:165758353-165806110_F	chrX:165758353-165806110_F	lincRNA:chrX:165758353-165806110 forward strand	0.33	0.010	0.212	0.27	0.033	0.489
Get4	NM_026269	ref Mus musculus golgi to ER traffic protein 4 homolog (S. cerevisiae) (Get4), transcript variant 1, mRNA [NM_026269]	0.46	0.010	0.212	0.50	0.041	0.504
Slx1l	NM_029181	ref Mus musculus Slx-like 1 (Slx1l), mRNA [NM_029181]	0.52	0.010	0.213	0.72	0.018	0.435
Sbds	NM_023248	ref Mus musculus Shwachman-Bodian-Diamond syndrome homolog (human) (Sbds), mRNA [NM_023248]	0.39	0.010	0.216	0.42	0.034	0.491
Pdpk1	NM_001080773	ref Mus musculus 3-phosphoinositide dependent protein kinase-1 (Pdpk1), transcript variant 2, mRNA [NM_001080773]	0.36	0.010	0.216	0.30	0.026	0.469
EII	NM_007924	ref Mus musculus elongation factor RNA polymerase II (EII), mRNA [NM_007924]	0.54	0.011	0.216	0.52	0.033	0.490
Arl5a	NM_182994	ref Mus musculus ADP-ribosylation factor-like 5A (Arl5a), mRNA [NM_182994]	0.33	0.011	0.217	0.31	0.016	0.426
Ear11	NM_053113	ref Mus musculus eosinophil-associated, ribonuclease A family, member 11 (Ear11), mRNA [NM_053113]	0.55	0.011	0.218	0.85	0.038	0.499
Tgfb2	NM_009367	ref Mus musculus transforming growth factor, beta 2 (Tgfb2), mRNA [NM_009367]	0.52	0.011	0.220	0.35	0.036	0.495
Fas	NM_007987	ref Mus musculus Fas (TNF receptor superfamily member 6) (Fas), transcript variant 1, mRNA [NM_007987]	0.69	0.011	0.222	0.69	0.044	0.512
NEAT2	NEAT2	lincRNA:chr19:5795689-5802671 reverse strand	0.53	0.011	0.225	0.77	0.034	0.491
Brd2	NM_001025387	ref Mus musculus bromodomain containing 2 (Brd2), transcript variant 2, mRNA [NM_001025387]	0.27	0.011	0.225	0.37	0.029	0.477
chr15:74474704-74474770_F	chr15:74474704-74474770_F	lincRNA:chr15:74474704-74474770 forward strand	1.16	0.011	0.227	1.18	0.018	0.436

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Gm4499	XM_001479558	ref PREDICTED: Mus musculus similar to pol protein (LOC100048118), mRNA [XM_001479558]	1.50	0.012	0.228	1.56	0.015	0.419
Hip1	NM_146001	ref Mus musculus huntingtin interacting protein 1 (Hip1), mRNA [NM_146001]	0.35	0.012	0.228	0.28	0.030	0.477
Zkscan5	NM_016683	ref Mus musculus zinc finger with KRAB and SCAN domains 5 (Zkscan5), transcript variant 1, mRNA [NM_016683]	0.47	0.012	0.230	0.48	0.033	0.487
chr5:106353430-106353843_F	chr5:106353430-106353843_F	lincRNA:chr5:106353430-106353843 forward strand	0.60	0.012	0.231	0.47	0.033	0.490
Trib1	NM_144549	ref Mus musculus tribbles homolog 1 (Drosophila) (Trib1), mRNA [NM_144549]	0.35	0.012	0.232	0.31	0.045	0.513
Gm12684	XR_031097	ref PREDICTED: Mus musculus similar to glyceraldehyde-3-phosphate dehydrogenase (LOC665212), misc RNA [XR_031097]	0.49	0.012	0.232	0.39	0.042	0.508
Sgcd	NM_011891	ref Mus musculus sarcoglycan, delta (dystrophin-associated glycoprotein) (Sgcd), mRNA [NM_011891]	0.25	0.012	0.234	0.39	0.003	0.304
Gas5	NR_002840	ref Mus musculus growth arrest specific 5 (Gas5), non-coding RNA [NR_002840]	0.36	0.012	0.234	0.44	0.036	0.495
Tbx3	NM_011535	ref Mus musculus T-box 3 (Tbx3), transcript variant 1, mRNA [NM_011535]	0.40	0.012	0.234	0.36	0.028	0.476
chr18:6144775-6202105_R	chr18:6144775-6202105_R	lincRNA:chr18:6144775-6202105 reverse strand	0.29	0.012	0.234	0.32	0.010	0.405
Gm12164	XR_031806	ref PREDICTED: Mus musculus similar to ferritin light chain 2 (LOC633082), misc RNA [XR_031806]	0.50	0.012	0.234	0.35	0.024	0.458
Inadl	NM_001005784	ref Mus musculus InaD-like (Drosophila) (Inadl), transcript variant 2, mRNA [NM_001005784]	0.41	0.012	0.235	0.52	0.008	0.391
Ptpfr	NM_011213	ref Mus musculus protein tyrosine phosphatase, receptor type, F (Ptpfr), mRNA [NM_011213]	0.45	0.012	0.237	0.35	0.038	0.499
Sp1	NM_013672	ref Mus musculus trans-acting transcription factor 1 (Sp1), mRNA [NM_013672]	0.25	0.012	0.238	0.23	0.038	0.499
Stk38l	NM_172734	ref Mus musculus serine/threonine kinase 38 like (Stk38l), mRNA [NM_172734]	0.30	0.013	0.239	0.35	0.017	0.429

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Tcp10c	NM_009341	ref Mus musculus t-complex protein 10c (Tcp10c), mRNA [NM_009341]	0.39	0.013	0.240	0.48	0.028	0.474
Spp1	NM_009263	ref Mus musculus secreted phosphoprotein 1 (Spp1), mRNA [NM_009263]	1.12	0.013	0.243	0.63	0.046	0.513
Pacrg	NM_027032	ref Mus musculus PARK2 co-regulated (Pacrg), mRNA [NM_027032]	0.41	0.013	0.243	0.51	0.031	0.482
Efhd2	NM_025994	ref Mus musculus EF hand domain containing 2 (Efhd2), mRNA [NM_025994]	0.58	0.013	0.244	0.76	0.012	0.410
Tmem132e	NM_023438	ref Mus musculus transmembrane protein 132E (Tmem132e), mRNA [NM_023438]	0.44	0.013	0.244	0.33	0.011	0.406
AW551984	NM_178737	ref Mus musculus expressed sequence AW551984 (AW551984), mRNA [NM_178737]	0.60	0.013	0.246	0.44	0.013	0.412
ENSMUST00000062980	ENSMUST00000062980	ens metallothionein 1 Gene [Source:MGI Symbol;Acc:MGI:97171] [ENSMUST00000062980]	0.80	0.014	0.249	0.88	0.029	0.477
Popdc3	NM_024286	ref Mus musculus popeye domain containing 3 (Popdc3), mRNA [NM_024286]	0.37	0.014	0.252	0.54	0.028	0.476
chr18:6144775-6202232_R	chr18:6144775-6202232_R	lincRNA:chr18:6144775-6202232 reverse strand	0.28	0.014	0.254	0.30	0.008	0.392
Gm3430	XM_001476688	ref PREDICTED: Mus musculus similar to pol protein (LOC100041612), mRNA [XM_001476688]	1.37	0.014	0.254	1.46	0.018	0.435
Slc25a20	NM_020520	ref Mus musculus solute carrier family 25 (mitochondrial carnitine/acylcarnitine translocase), member 20 (Slc25a20), nuclear gene encoding mitochondrial protein, mRNA [NM_020520]	0.61	0.014	0.255	0.61	0.014	0.412
chr18:6144775-6202105_R	chr18:6144775-6202105_R	lincRNA:chr18:6144775-6202105 reverse strand	0.28	0.014	0.256	0.36	0.006	0.369
Fpr1	NM_013521	ref Mus musculus formyl peptide receptor 1 (Fpr1), mRNA [NM_013521]	0.71	0.014	0.256	0.58	0.042	0.508
LOC434624	XM_486478	ref PREDICTED: Mus musculus similar to ferritin light chain 2 (LOC434624), mRNA [XM_486478]	0.46	0.014	0.257	0.30	0.025	0.464
Pygb	NM_153781	ref Mus musculus brain glycogen phosphorylase (Pygb), mRNA [NM_153781]	0.31	0.014	0.257	0.45	0.032	0.486

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Fbxo30	NM_027968	ref Mus musculus F-box protein 30 (Fbxo30), transcript variant 1, mRNA [NM_027968]	0.39	0.014	0.258	0.42	0.024	0.459
Spry1	NM_011896	ref Mus musculus sprouty homolog 1 (Drosophila) (Spry1), mRNA [NM_011896]	0.32	0.015	0.259	0.42	0.015	0.419
Tulp4	NM_054040	ref Mus musculus tubby like protein 4 (Tulp4), transcript variant 1, mRNA [NM_054040]	0.29	0.015	0.260	0.33	0.012	0.408
chr11:31647436-31647791_R	chr11:31647436-31647791_R	lincRNA:chr11:31647436-31647791 reverse strand	0.68	0.015	0.260	0.84	0.002	0.266
chr3:30052149-30052393_R	chr3:30052149-30052393_R	lincRNA:chr3:30052149-30052393 reverse strand	0.87	0.015	0.260	0.80	0.029	0.477
Ppm1a	NM_008910	ref Mus musculus protein phosphatase 1A, magnesium dependent, alpha isoform (Ppm1a), mRNA [NM_008910]	0.28	0.015	0.260	0.38	0.015	0.418
chr6:31007184-31007725_R	chr6:31007184-31007725_R	lincRNA:chr6:31007184-31007725 reverse strand	0.55	0.015	0.260	1.19	0.014	0.416
Neb	NM_010889	ref Mus musculus nebulin (Neb), mRNA [NM_010889]	0.56	0.015	0.260	1.00	0.000	0.160
Stat3	NM_213659	ref Mus musculus signal transducer and activator of transcription 3 (Stat3), transcript variant 1, mRNA [NM_213659]	0.44	0.015	0.260	0.36	0.016	0.425
Hipk1	NM_010432	ref Mus musculus homeodomain interacting protein kinase 1 (Hipk1), mRNA [NM_010432]	0.49	0.015	0.260	0.72	0.007	0.377
Dnttip2	NM_153806	ref Mus musculus deoxynucleotidyltransferase, terminal, interacting protein 2 (Dnttip2), mRNA [NM_153806]	0.49	0.015	0.261	0.55	0.020	0.443
Mfap2	NM_008546	ref Mus musculus microfibrillar-associated protein 2 (Mfap2), transcript variant 1, mRNA [NM_008546]	0.60	0.015	0.261	0.37	0.028	0.475
Dhx32	NM_133941	ref Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 32 (Dhx32), mRNA [NM_133941]	0.33	0.015	0.264	0.39	0.003	0.281
Mib1	NM_144860	ref Mus musculus mindbomb homolog 1 (Drosophila) (Mib1), mRNA [NM_144860]	0.39	0.015	0.264	0.57	0.004	0.325
A130040M12Rik	NR_002860	ref Mus musculus RIKEN cDNA A130040M12 gene (A130040M12Rik), non-coding RNA [NR_002860]	1.50	0.015	0.266	1.60	0.021	0.448
chr6:149221500-149237350_R	chr6:149221500-149237350_R	lincRNA:chr6:149221500-149237350 reverse strand	0.72	0.016	0.268	0.69	0.050	0.520

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Bcl2l1	NM_009743	ref Mus musculus BCL2-like 1 (Bcl2l1), nuclear gene encoding mitochondrial protein, mRNA [NM_009743]	0.66	0.016	0.268	0.82	0.049	0.519
Nr1d2	NM_011584	ref Mus musculus nuclear receptor subfamily 1, group D, member 2 (Nr1d2), mRNA [NM_011584]	0.50	0.016	0.269	0.66	0.016	0.423
Irx3	NM_008393	ref Mus musculus Iroquois related homeobox 3 (Drosophila) (Irx3), mRNA [NM_008393]	0.32	0.016	0.269	0.40	0.006	0.366
Sertad1	NM_018820	ref Mus musculus SERTA domain containing 1 (Sertad1), mRNA [NM_018820]	0.32	0.016	0.270	0.30	0.027	0.471
Irak1bp1	NM_022986	ref Mus musculus interleukin-1 receptor-associated kinase 1 binding protein 1 (Irak1bp1), transcript variant 1, mRNA [NM_022986]	0.39	0.016	0.270	0.48	0.011	0.407
Slc20a1	NM_015747	ref Mus musculus solute carrier family 20, member 1 (Slc20a1), transcript variant 1, mRNA [NM_015747]	0.31	0.016	0.270	0.25	0.028	0.474
Dstn	NM_019771	ref Mus musculus destrin (Dstn), mRNA [NM_019771]	0.33	0.016	0.270	0.34	0.015	0.418
Tgif1	NM_001164075	ref Mus musculus TGFB-induced factor homeobox 1 (Tgif1), transcript variant 1, mRNA [NM_001164075]	0.30	0.016	0.271	0.30	0.025	0.467
chr13:9185198-9185778_F	chr13:9185198-9185778_F	lincRNA:chr13:9185198-9185778 forward strand	0.42	0.016	0.271	0.43	0.023	0.453
7120432I05Rik	AK148667	gb Mus musculus 2 days neonate sympathetic ganglion cDNA, RIKEN full-length enriched library, clone:7120432I05 product:hypothetical protein, full insert sequence. [AK148667]	0.64	0.016	0.272	0.60	0.011	0.406
ENSMUST00000076791	ENSMUST00000076791	ens RIKEN cDNA 4632433K11 gene Gene [Source:MGI Symbol;Acc:MGI:1924293] [ENSMUST00000076791]	0.27	0.016	0.273	0.42	0.017	0.429
Krba1	NM_133922	ref Mus musculus KRAB-A domain containing 1 (Krba1), mRNA [NM_133922]	0.24	0.016	0.273	0.28	0.011	0.406
Iscu	NM_025526	ref Mus musculus IscU iron-sulfur cluster scaffold homolog (E. coli) (Iscu), nuclear gene encoding mitochondrial protein, mRNA [NM_025526]	0.29	0.016	0.273	0.29	0.035	0.495
chr17:10057283-10075014_F	chr17:10057283-10075014_F	lincRNA:chr17:10057283-10075014 forward strand	0.83	0.017	0.274	0.87	0.010	0.403

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000115233	ENSMUST00000115233	ens protein phosphatase 1, regulatory (inhibitor) subunit 2 Gene [Source:MGI (curated);Acc:MGI:1914099] [ENSMUST00000115233]	0.28	0.017	0.274	0.40	0.013	0.412
Gpr35	NM_022320	ref Mus musculus G protein-coupled receptor 35 (Gpr35), transcript variant 1, mRNA [NM_022320]	0.73	0.017	0.274	0.83	0.005	0.339
Ccdc152	NM_001166063	ref Mus musculus coiled-coil domain containing 152 (Ccdc152), mRNA [NM_001166063]	0.65	0.017	0.275	0.68	0.030	0.480
Ankrd10	NM_133971	ref Mus musculus ankyrin repeat domain 10 (Ankrd10), transcript variant 1, mRNA [NM_133971]	0.24	0.017	0.276	0.38	0.019	0.437
Ttc12	NM_172770	ref Mus musculus tetratricopeptide repeat domain 12 (Ttc12), mRNA [NM_172770]	0.28	0.017	0.276	0.29	0.048	0.518
chrX:34354757-34357195_R	chrX:34354757-34357195_R	lincRNA:chrX:34354757-34357195 reverse strand	0.30	0.017	0.278	0.40	0.010	0.406
Cry2	NM_009963	ref Mus musculus cryptochrome 2 (photolyase-like) (Cry2), transcript variant 1, mRNA [NM_009963]	0.30	0.017	0.278	0.45	0.031	0.483
Insr	NM_010568	ref Mus musculus insulin receptor (Insr), mRNA [NM_010568]	0.31	0.017	0.279	0.57	0.003	0.290
Slc48a1	NM_026353	ref Mus musculus solute carrier family 48 (heme transporter), member 1 (Slc48a1), mRNA [NM_026353]	0.24	0.017	0.279	0.35	0.018	0.436
Odf3	ENSMUST00000106049	ens outer dense fiber of sperm tails 3 Gene [Source:MGI (curated);Acc:MGI:1916537] [ENSMUST00000106049]	0.46	0.017	0.279	0.59	0.006	0.356
9530020I12Rik	AK020565	gb Mus musculus adult male urinary bladder cDNA, RIKEN full-length enriched library, clone:9530020I12 product:unclassifiable, full insert sequence. [AK020565]	0.50	0.017	0.280	0.50	0.019	0.441
Igsf11	NM_170599	ref Mus musculus immunoglobulin superfamily, member 11 (Igsf11), mRNA [NM_170599]	0.28	0.017	0.280	0.51	0.011	0.407
Gm1153	XM_356464	ref PREDICTED: Mus musculus gene model 1153, (NCBI) (Gm1153), mRNA [XM_356464]	0.50	0.018	0.280	0.51	0.024	0.463
Zeb2	NM_015753	ref Mus musculus zinc finger E-box binding homeobox 2 (Zeb2), transcript variant 2, mRNA [NM_015753]	0.27	0.018	0.281	0.26	0.018	0.437
chr10:5950116-5958250_R	chr10:5950116-5958250_R	lincRNA:chr10:5950116-5958250 reverse strand	0.42	0.018	0.281	0.40	0.039	0.501

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Tmem200b	ENSMUST00000094666	ref PREDICTED: Mus musculus predicted gene, EG623230 (EG623230), mRNA [XM_001475812]	0.25	0.018	0.281	0.26	0.050	0.520
chr7:134620707-134626739_F	chr7:134620707-134626739_F	lincRNA:chr7:134620707-134626739 forward strand	0.47	0.018	0.281	0.40	0.022	0.452
9330162B11Rik	XM_001476061	ref PREDICTED: Mus musculus RIKEN cDNA 9330162B11 gene (9330162B11Rik), mRNA [XM_001476061]	0.76	0.018	0.282	0.77	0.019	0.437
Nrl	NM_001136074	ref Mus musculus neural retina leucine zipper gene (Nrl), transcript variant 2, mRNA [NM_001136074]	0.77	0.018	0.283	0.63	0.029	0.477
ENSMUST00000071866	ENSMUST00000071866	ref PREDICTED: Mus musculus predicted gene, EG433251 (EG433251), mRNA [XM_484811]	0.23	0.018	0.283	0.30	0.030	0.478
Acacb	NM_133904	ref Mus musculus acetyl-Coenzyme A carboxylase beta (Acacb), mRNA [NM_133904]	0.27	0.018	0.284	0.44	0.018	0.437
Lass2	NM_029789	ref Mus musculus LAG1 homolog, ceramide synthase 2 (Lass2), mRNA [NM_029789]	0.22	0.018	0.285	0.21	0.039	0.501
Plagl1	NM_009538	ref Mus musculus pleiomorphic adenoma gene-like 1 (Plagl1), mRNA [NM_009538]	0.27	0.018	0.286	0.40	0.012	0.407
Gm4382	XM_001480011	ref PREDICTED: Mus musculus similar to pol protein (LOC100043353), mRNA [XM_001480011]	1.47	0.018	0.286	1.55	0.015	0.419
Csnk1a1	NM_146087	ref Mus musculus casein kinase 1, alpha 1 (Csnk1a1), mRNA [NM_146087]	0.23	0.018	0.286	0.26	0.033	0.490
Mctp1	NM_030174	ref Mus musculus multiple C2 domains, transmembrane 1 (Mctp1), mRNA [NM_030174]	0.77	0.018	0.286	0.83	0.046	0.514
A330044H09	AK039451	gb Mus musculus adult male spinal cord cDNA, RIKEN full-length enriched library, clone:A330044H09 product:unclassifiable, full insert sequence. [AK039451]	0.27	0.018	0.287	0.24	0.033	0.490
LOC676884	XR_032012	ref PREDICTED: Mus musculus hypothetical LOC676884 (LOC676884), misc RNA [XR_032012]	0.39	0.019	0.288	0.31	0.013	0.412
Rabgap1l	NM_001038621	ref Mus musculus RAB GTPase activating protein 1-like (Rabgap1l), transcript variant 2, mRNA [NM_001038621]	0.38	0.019	0.288	0.58	0.044	0.512
ENSMUST00000111548	ENSMUST00000111548	ens RIKEN cDNA 4833442J19 gene Gene [Source:MGI Symbol;Acc:MGI:2443575] [ENSMUST00000111548]	0.62	0.019	0.289	0.79	0.017	0.433

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
BC030336	NM_001164580	ref[Mus musculus cDNA sequence BC030336 (BC030336), mRNA [NM_001164580]	0.29	0.019	0.289	0.32	0.045	0.513
ENSMUST00000115107	ENSMUST00000115107	ens[Brain cDNA, clone MNCb-1768cDNA sequence AB041803 ; [Source:UniProtKB/TrEMBL;Acc:Q8K5E3] [ENSMUST00000115107]	0.39	0.019	0.290	0.40	0.018	0.435
Cacnb4	NM_001037099	ref[Mus musculus calcium channel, voltage-dependent, beta 4 subunit (Cacnb4), transcript variant 1, mRNA [NM_001037099]	0.37	0.019	0.290	0.34	0.048	0.517
Rgs1	NM_015811	ref[Mus musculus regulator of G-protein signaling 1 (Rgs1), mRNA [NM_015811]	0.81	0.019	0.291	0.74	0.048	0.518
Olfr466	NM_146819	ref[Mus musculus olfactory receptor 466 (Olfr466), mRNA [NM_146819]	0.42	0.019	0.293	0.59	0.019	0.441
chr9:118060025-118085050_R	chr9:118060025-118085050_R	lincRNA:chr9:118060025-118085050 reverse strand	0.58	0.019	0.293	0.64	0.012	0.410
Rnft1	NM_029788	ref[Mus musculus ring finger protein, transmembrane 1 (Rnft1), mRNA [NM_029788]	0.26	0.019	0.293	0.27	0.012	0.412
ENSMUST00000038090	ENSMUST00000038090	ens[tubulin tyrosine ligase-like family, member 7 Gene [Source:MGI (curated);Acc:MGI:1918142] [ENSMUST00000038090]	0.42	0.019	0.294	0.59	0.006	0.356
chr8:41730287-41746862_R	chr8:41730287-41746862_R	lincRNA:chr8:41730287-41746862 reverse strand	0.85	0.019	0.294	0.78	0.039	0.501
Myh3	NM_001099635	ref[Mus musculus myosin, heavy polypeptide 3, skeletal muscle, embryonic (Myh3), mRNA [NM_001099635]	0.47	0.020	0.295	0.34	0.036	0.495
Sfrs16	NM_016680	ref[Mus musculus splicing factor, arginine/serine-rich 16 (Sfrs16), transcript variant L, mRNA [NM_016680]	0.25	0.020	0.296	0.36	0.016	0.425
chr19:27448093-27462793_R	chr19:27448093-27462793_R	lincRNA:chr19:27448093-27462793 reverse strand	0.40	0.020	0.297	0.41	0.027	0.472
Tmem11	NM_173453	ref[Mus musculus transmembrane protein 11 (Tmem11), transcript variant 1, mRNA [NM_173453]	0.21	0.020	0.297	0.26	0.033	0.490
chr6:86477309-86537554_R	chr6:86477309-86537554_R	lincRNA:chr6:86477309-86537554 reverse strand	0.49	0.020	0.298	0.47	0.029	0.477

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Malat1	NR_002847	ref Mus musculus metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA) (Malat1), non-coding RNA [NR_002847]	0.49	0.021	0.302	0.78	0.034	0.493
Pi4kb	NM_175356	ref Mus musculus phosphatidylinositol 4-kinase, catalytic, beta polypeptide (Pi4kb), mRNA [NM_175356]	0.26	0.021	0.303	0.30	0.029	0.477
chr18:6144775-6202105_R	chr18:6144775-6202105_R	lincRNA:chr18:6144775-6202105 reverse strand	0.42	0.021	0.304	0.41	0.025	0.463
Ttr	NM_013697	ref Mus musculus transthyretin (Ttr), mRNA [NM_013697]	0.64	0.021	0.304	0.82	0.026	0.470
chr1:4898552-4899347_R	chr1:4898552-4899347_R	lincRNA:chr1:4898552-4899347 reverse strand	0.48	0.021	0.304	0.50	0.024	0.459
Zbtb38	ENSMUST00000152594	ens zinc finger and BTB domain containing 38 Gene [Source:MGI (curated);Acc:MGI:2442866] [ENSMUST00000152594]	0.48	0.021	0.305	0.44	0.048	0.518
Fam46b	NM_175307	ref Mus musculus family with sequence similarity 46, member B (Fam46b), mRNA [NM_175307]	1.59	0.021	0.306	1.52	0.020	0.447
Loxl4	NM_001164311	ref Mus musculus lysyl oxidase-like 4 (Loxl4), transcript variant 1, mRNA [NM_001164311]	0.51	0.021	0.307	0.52	0.014	0.412
4930511J24Rik	AK015759	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930511J24 product:unclassifiable, full insert sequence. [AK015759]	0.28	0.022	0.310	0.42	0.012	0.408
chr15:41486232-41499767_R	chr15:41486232-41499767_R	lincRNA:chr15:41486232-41499767 reverse strand	0.60	0.022	0.310	0.74	0.008	0.391
Gm2045	XM_001472254	ref PREDICTED: Mus musculus similar to pol protein (LOC100039096), mRNA [XM_001472254]	0.94	0.022	0.310	1.02	0.040	0.504
chr11:68200716-68214458_R	chr11:68200716-68214458_R	lincRNA:chr11:68200716-68214458 reverse strand	0.34	0.022	0.310	0.46	0.033	0.487
Ctdp1	NM_026295	ref Mus musculus CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) phosphatase, subunit 1 (Ctdp1), mRNA [NM_026295]	0.28	0.022	0.310	0.39	0.039	0.499
Mios	NM_145374	ref Mus musculus missing oocyte, meiosis regulator, homolog (Drosophila) (Mios), mRNA [NM_145374]	0.29	0.022	0.310	0.31	0.047	0.516

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr3:83120454-83152078_F	chr3:83120454-83152078_F	lincRNA:chr3:83120454-83152078 forward strand	0.41	0.022	0.310	0.30	0.014	0.414
Peg3	NM_008817	ref[Mus musculus paternally expressed 3 (Peg3), mRNA [NM_008817]	0.53	0.022	0.313	0.55	0.038	0.499
Papd7	NM_198600	ref[Mus musculus PAP associated domain containing 7 (Papd7), transcript variant 1, mRNA [NM_198600]	0.21	0.022	0.313	0.33	0.028	0.474
Gm8743	XM_984659	ref[PREDICTED: Mus musculus predicted gene, EG667649 (EG667649), mRNA [XM_984659]	0.62	0.022	0.315	0.59	0.011	0.407
E4f1	NM_007893	ref[Mus musculus E4F transcription factor 1 (E4f1), mRNA [NM_007893]	0.24	0.022	0.315	0.38	0.018	0.435
Lin7c	NM_011699	ref[Mus musculus lin-7 homolog C (C. elegans) (Lin7c), mRNA [NM_011699]	0.33	0.022	0.315	0.51	0.029	0.477
Ccl11	NM_011330	ref[Mus musculus chemokine (C-C motif) ligand 11 (Ccl11), mRNA [NM_011330]	0.67	0.023	0.316	0.56	0.045	0.513
Nedd4l	NM_031881	ref[Mus musculus neural precursor cell expressed, developmentally down-regulated gene 4-like (Nedd4l), transcript variant 2, mRNA [NM_031881]	0.23	0.023	0.316	0.29	0.013	0.412
Ptpn23	NM_001081043	ref[Mus musculus protein tyrosine phosphatase, non-receptor type 23 (Ptpn23), mRNA [NM_001081043]	0.21	0.023	0.317	0.23	0.037	0.497
Gnal	NM_177137	ref[Mus musculus guanine nucleotide binding protein, alpha stimulating, olfactory type (Gnal), transcript variant 2, mRNA [NM_177137]	0.44	0.023	0.317	0.84	0.017	0.429
Sema3g	ENSMUST00000090180	ens[sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G Gene [Source:MGI (curated);Acc:MGI:3041242] [ENSMUST00000090180]	0.83	0.023	0.317	0.84	0.011	0.406
Mtus1	NM_001005863	ref[Mus musculus mitochondrial tumor suppressor 1 (Mtus1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_001005863]	0.28	0.023	0.317	0.31	0.019	0.437
chr13:94182877-94203935_R	chr13:94182877-94203935_R	lincRNA:chr13:94182877-94203935 reverse strand	0.40	0.023	0.318	0.54	0.017	0.433
Dsg2	NM_007883	ref[Mus musculus desmoglein 2 (Dsg2), mRNA [NM_007883]	0.35	0.023	0.319	0.60	0.007	0.382

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Foxq1	NM_008239	ref Mus musculus forkhead box Q1 (Foxq1), mRNA [NM_008239]	0.36	0.023	0.319	0.66	0.011	0.406
Gm12824	NM_001085549	ref Mus musculus predicted gene 12824 (Gm12824), mRNA [NM_001085549]	0.41	0.023	0.319	0.54	0.038	0.499
Sms	NM_009214	ref Mus musculus spermine synthase (Sms), mRNA [NM_009214]	0.28	0.023	0.320	0.36	0.027	0.472
chr1:81657350-81765250_F	chr1:81657350-81765250_F	lincRNA:chr1:81657350-81765250 forward strand	0.37	0.023	0.320	0.48	0.013	0.412
chr19:21653968-21671718_F	chr19:21653968-21671718_F	lincRNA:chr19:21653968-21671718 forward strand	0.84	0.023	0.321	0.77	0.036	0.496
Camk2n1	NM_025451	ref Mus musculus calcium/calmodulin-dependent protein kinase II inhibitor 1 (Camk2n1), mRNA [NM_025451]	0.41	0.024	0.322	0.46	0.030	0.477
chr18:77291264-77299664_F	chr18:77291264-77299664_F	lincRNA:chr18:77291264-77299664 forward strand	0.70	0.024	0.325	0.64	0.036	0.495
Zzz3	NM_001080755	ref Mus musculus zinc finger, ZZ domain containing 3 (Zzz3), transcript variant 2, mRNA [NM_001080755]	0.23	0.024	0.325	0.28	0.033	0.490
Synpo	NM_177340	ref Mus musculus synaptopodin (Synpo), transcript variant A, mRNA [NM_177340]	0.46	0.024	0.325	0.37	0.019	0.437
Socs6	NM_018821	ref Mus musculus suppressor of cytokine signaling 6 (Socs6), mRNA [NM_018821]	0.33	0.024	0.325	0.45	0.039	0.499
B430105G09Rik	XM_900601	ref PREDICTED: Mus musculus RIKEN cDNA B430105G09 gene (B430105G09Rik), mRNA [XM_900601]	0.40	0.024	0.326	0.44	0.037	0.497
chrX:11688787-11689145_R	chrX:11688787-11689145_R	lincRNA:chrX:11688787-11689145 reverse strand	0.89	0.024	0.327	0.88	0.049	0.519
Mttp	NM_001163457	ref Mus musculus microsomal triglyceride transfer protein (Mttp), transcript variant 1, mRNA [NM_001163457]	0.44	0.024	0.327	0.51	0.008	0.391
Pla2g16	NM_139269	ref Mus musculus phospholipase A2, group XVI (Pla2g16), mRNA [NM_139269]	0.22	0.024	0.328	0.37	0.005	0.342

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Irs2	NM_001081212	ref Mus musculus insulin receptor substrate 2 (Irs2), mRNA [NM_001081212]	0.99	0.024	0.328	0.87	0.038	0.499
Gm3428	NR_030730	ref Mus musculus predicted gene 3428 (Gm3428), non-coding RNA [NR_030730]	0.55	0.025	0.331	0.61	0.013	0.412
Acacb	NM_133904	ref Mus musculus acetyl-Coenzyme A carboxylase beta (Acacb), mRNA [NM_133904]	0.24	0.025	0.331	0.35	0.008	0.393
Ear10	NM_053112	ref Mus musculus eosinophil-associated, ribonuclease A family, member 10 (Ear10), mRNA [NM_053112]	0.47	0.025	0.331	0.92	0.010	0.402
Ypel3	NM_026875	ref Mus musculus yippee-like 3 (Drosophila) (Ypel3), mRNA [NM_026875]	0.52	0.025	0.332	0.67	0.004	0.326
Klk5	NM_026806	ref Mus musculus kallikrein related-peptidase 5 (Klk5), mRNA [NM_026806]	0.66	0.025	0.332	0.82	0.006	0.366
Polr3e	NM_025298	ref Mus musculus polymerase (RNA) III (DNA directed) polypeptide E (Polr3e), transcript variant 1, mRNA [NM_025298]	0.25	0.025	0.332	0.31	0.017	0.434
Ip6k1	NM_013785	ref Mus musculus inositol hexaphosphate kinase 1 (Ip6k1), mRNA [NM_013785]	0.25	0.025	0.332	0.32	0.041	0.506
chr17:17315025-17460175_R	chr17:17315025-17460175_R	lincRNA:chr17:17315025-17460175 reverse strand	0.41	0.026	0.337	0.50	0.034	0.493
Sec63	NM_153055	ref Mus musculus SEC63-like (S. cerevisiae) (Sec63), mRNA [NM_153055]	0.27	0.026	0.339	0.34	0.045	0.513
Vwf	NM_011708	ref Mus musculus Von Willebrand factor homolog (Vwf), mRNA [NM_011708]	0.32	0.026	0.341	0.35	0.037	0.497
Kalrn	NM_177357	ref Mus musculus kalirin, RhoGEF kinase (Kalrn), transcript variant 1, mRNA [NM_177357]	0.26	0.026	0.341	0.36	0.014	0.412
Gtsf1	NM_028797	ref Mus musculus gametocyte specific factor 1 (Gtsf1), mRNA [NM_028797]	0.27	0.027	0.342	0.34	0.008	0.392
Foxf2	NM_010225	ref Mus musculus forkhead box F2 (Foxf2), mRNA [NM_010225]	0.45	0.027	0.344	0.48	0.020	0.447
Cdk9	NM_130860	ref Mus musculus cyclin-dependent kinase 9 (CDC2-related kinase) (Cdk9), mRNA [NM_130860]	0.69	0.027	0.344	0.86	0.015	0.418

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Vsx1	NM_054068	ref Mus musculus visual system homeobox 1 homolog (zebrafish) (Vsx1), mRNA [NM_054068]	0.58	0.027	0.345	0.54	0.018	0.435
Pbld	NM_026701	ref Mus musculus phenazine biosynthesis-like protein domain containing (Pbld), mRNA [NM_026701]	0.71	0.027	0.345	0.70	0.029	0.477
chr17:13220550-13236900_R	chr17:13220550-13236900_R	lincRNA:chr17:13220550-13236900 reverse strand	0.49	0.027	0.346	0.54	0.030	0.480
Gm4672	XM_001481025	ref PREDICTED: Mus musculus hypothetical protein LOC100043822 (LOC100043822), mRNA [XM_001481025]	0.30	0.027	0.347	0.41	0.012	0.410
Anxa7	NM_009674	ref Mus musculus annexin A7 (Anxa7), transcript variant 1, mRNA [NM_009674]	0.24	0.027	0.347	0.25	0.034	0.491
chr18:61799195-61807139_F	chr18:61799195-61807139_F	lincRNA:chr18:61799195-61807139 forward strand	0.33	0.027	0.348	0.50	0.002	0.281
Fam65c	NM_001080708	ref Mus musculus family with sequence similarity 65, member C (Fam65c), mRNA [NM_001080708]	0.46	0.028	0.348	0.36	0.045	0.513
Slc19a3	NM_030556	ref Mus musculus solute carrier family 19 (sodium/hydrogen exchanger), member 3 (Slc19a3), mRNA [NM_030556]	0.41	0.028	0.348	0.39	0.024	0.463
Plcd3	NM_152813	ref Mus musculus phospholipase C, delta 3 (Plcd3), mRNA [NM_152813]	0.28	0.028	0.349	0.39	0.050	0.520
Tmem184a	ENSMUST00000110832	ens transmembrane protein 184a Gene [Source:MGI (curated);Acc:MGI:2385897] [ENSMUST00000110832]	0.43	0.028	0.351	0.54	0.029	0.477
Ppp2cb	NM_017374	ref Mus musculus protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform (Ppp2cb), mRNA [NM_017374]	0.19	0.028	0.351	0.19	0.044	0.511
Ppp1r2	NM_025800	ref Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 2 (Ppp1r2), mRNA [NM_025800]	0.29	0.028	0.351	0.45	0.022	0.450
chr6:31017987-31174287_F	chr6:31017987-31174287_F	lincRNA:chr6:31017987-31174287 forward strand	0.50	0.028	0.353	0.58	0.034	0.493
Phf15	NM_199299	ref Mus musculus PHD finger protein 15 (Phf15), mRNA [NM_199299]	0.49	0.029	0.353	0.60	0.023	0.456
Zxdc	NM_173002	ref Mus musculus ZXD family zinc finger C (Zxdc), transcript variant 2, mRNA [NM_173002]	0.37	0.029	0.354	0.48	0.035	0.495

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr8:74333475-74384150_F	chr8:74333475-74384150_F	lincRNA:chr8:74333475-74384150 forward strand	0.93	0.029	0.354	0.98	0.023	0.454
Gm12824	NM_001085549	ref Mus musculus predicted gene 12824 (Gm12824), mRNA [NM_001085549]	0.40	0.029	0.354	0.57	0.043	0.511
Magi1	NM_001083321	ref Mus musculus membrane associated guanylate kinase, WW and PDZ domain containing 1 (Magi1), transcript variant 4, mRNA [NM_001083321]	0.37	0.029	0.355	0.41	0.015	0.422
9030622O22Rik	XM_001481064	ref PREDICTED: Mus musculus hypothetical protein LOC100048732 (LOC100048732), mRNA [XM_001481064]	0.35	0.029	0.356	0.53	0.002	0.281
Sgcg	NM_011892	ref Mus musculus sarcoglycan, gamma (dystrophin-associated glycoprotein) (Sgcg), mRNA [NM_011892]	0.31	0.029	0.358	0.41	0.016	0.426
Rab3d	NM_031874	ref Mus musculus RAB3D, member RAS oncogene family (Rab3d), mRNA [NM_031874]	0.27	0.029	0.358	0.27	0.023	0.454
LOC100041369	XM_001476252	ref PREDICTED: Mus musculus hypothetical protein LOC100041369 (LOC100041369), mRNA [XM_001476252]	0.40	0.030	0.360	0.37	0.033	0.488
Dcaf8	NM_153555	ref Mus musculus DDB1 and CUL4 associated factor 8 (Dcaf8), mRNA [NM_153555]	0.24	0.030	0.360	0.35	0.009	0.398
chr1:85117750-85129200_R	chr1:85117750-85129200_R	lincRNA:chr1:85117750-85129200 reverse strand	0.32	0.030	0.361	0.38	0.024	0.459
Etv4	NM_008815	ref Mus musculus ets variant gene 4 (E1A enhancer binding protein, E1AF) (Etv4), mRNA [NM_008815]	0.30	0.030	0.362	0.44	0.007	0.384
Nob1	NM_026277	ref Mus musculus NIN1/RPN12 binding protein 1 homolog (S. cerevisiae) (Nob1), mRNA [NM_026277]	0.20	0.030	0.362	0.24	0.019	0.439
Pparg	NM_011146	ref Mus musculus peroxisome proliferator activated receptor gamma (Pparg), transcript variant 2, mRNA [NM_011146]	0.37	0.030	0.362	0.42	0.043	0.511
Gm1973	AK005583	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:1700001E04 product: hypothetical protein, full insert sequence. [AK005583]	0.32	0.030	0.365	0.62	0.001	0.210

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Phf7	NM_027949	ref Mus musculus PHD finger protein 7 (Phf7), mRNA [NM_027949]	0.22	0.031	0.367	0.31	0.025	0.464
Fcrl6	NM_001164725	ref Mus musculus Fc receptor-like 6 (Fcrl6), mRNA [NM_001164725]	0.45	0.031	0.368	0.80	0.002	0.281
Sema5a	NM_009154	ref Mus musculus sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (Sema5a), mRNA [NM_009154]	0.51	0.031	0.368	0.68	0.024	0.458
Cntf	NM_170786	ref Mus musculus ciliary neurotrophic factor (Cntf), mRNA [NM_170786]	0.34	0.031	0.368	0.61	0.041	0.505
Gm6611	XM_894394	ref PREDICTED: Mus musculus predicted gene, EG625660 (EG625660), mRNA [XM_894394]	0.45	0.031	0.368	0.50	0.018	0.436
Ddx3x	NM_010028	ref Mus musculus DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-linked (Ddx3x), mRNA [NM_010028]	0.29	0.031	0.370	0.41	0.024	0.459
Myoz2	NM_021503	ref Mus musculus myozenin 2 (Myoz2), mRNA [NM_021503]	0.29	0.031	0.370	0.32	0.026	0.468
Olf117-ps	ENSMUST00000099826	ens olfactory receptor 1177 Gene [Source:MGI (curated);Acc:MGI:3031011] [ENSMUST00000099826]	0.69	0.031	0.371	0.81	0.018	0.435
Sf3b4	NM_153053	ref Mus musculus splicing factor 3b, subunit 4 (Sf3b4), mRNA [NM_153053]	0.19	0.032	0.372	0.23	0.027	0.472
chr3:95443575-95462543_R	chr3:95443575-95462543_R	lincRNA:chr3:95443575-95462543 reverse strand	0.25	0.032	0.372	0.52	0.001	0.169
Heca	NM_001033432	ref Mus musculus headcase homolog (Drosophila) (Heca), mRNA [NM_001033432]	0.44	0.032	0.372	0.80	0.013	0.412
Uchl5	NM_019562	ref Mus musculus ubiquitin carboxyl-terminal esterase L5 (Uchl5), transcript variant 1, mRNA [NM_019562]	0.21	0.032	0.373	0.30	0.025	0.463
chr1:183951156-183986156_F	chr1:183951156-183986156_F	lincRNA:chr1:183951156-183986156 forward strand	0.37	0.032	0.374	0.36	0.032	0.486
Rsph1	NM_025290	ref Mus musculus radial spoke head 1 homolog (Chlamydomonas) (Rsph1), mRNA [NM_025290]	0.36	0.032	0.375	0.35	0.032	0.484
Bnip3	NM_009760	ref Mus musculus BCL2/adenovirus E1B interacting protein 3 (Bnip3), nuclear gene encoding mitochondrial protein, mRNA [NM_009760]	0.60	0.032	0.376	0.64	0.016	0.426

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Plg	NM_008877	ref Mus musculus plasminogen (Plg), mRNA [NM_008877]	0.63	0.033	0.376	0.94	0.024	0.459
chr13:21860993-21862345_F	chr13:21860993-21862345_F	lincRNA:chr13:21860993-21862345 forward strand	0.30	0.033	0.376	0.38	0.048	0.518
Nr1h4	NM_001163504	ref Mus musculus nuclear receptor subfamily 1, group H, member 4 (Nr1h4), transcript variant 2, mRNA [NM_001163504]	0.32	0.033	0.376	0.38	0.027	0.472
ENSMUST00000066244	ENSMUST00000066244	ens Uncharacterized protein KIAA0232 [Source:UniProtKB/Swiss-Prot;Acc:Q80U59] [ENSMUST00000066244]	0.32	0.033	0.377	0.46	0.037	0.497
Sik3	NM_027498	ref Mus musculus SIK family kinase 3 (Sik3), mRNA [NM_027498]	0.37	0.034	0.380	0.49	0.039	0.501
D9Ertd788e	BG295362	gb 602392661F1 NIH_MGC_94 Mus musculus cDNA clone IMAGE:4504431 5', mRNA sequence [BG295362]	0.48	0.034	0.382	0.36	0.025	0.465
chr5:106353430-106353843_F	chr5:106353430-106353843_F	lincRNA:chr5:106353430-106353843 forward strand	0.44	0.034	0.382	0.44	0.026	0.470
ErbB2ip	NM_001005868	ref Mus musculus ErbB2 interacting protein (ErbB2ip), transcript variant 1, mRNA [NM_001005868]	0.23	0.034	0.383	0.31	0.019	0.439
Tmcc3	NM_172051	ref Mus musculus transmembrane and coiled coil domains 3 (Tmcc3), transcript variant 1, mRNA [NM_172051]	0.35	0.034	0.383	0.45	0.021	0.450
Speer4b	NM_028561	ref Mus musculus spermatogenesis associated glutamate (E)-rich protein 4b (Speer4b), mRNA [NM_028561]	0.55	0.034	0.384	0.99	0.013	0.412
Gm16515	NM_025294	ref Mus musculus predicted gene, Gm16515 (Gm16515), mRNA [NM_025294]	0.29	0.034	0.385	0.38	0.018	0.435
Psat1	NM_177420	ref Mus musculus phosphoserine aminotransferase 1 (Psat1), mRNA [NM_177420]	0.37	0.034	0.386	0.35	0.041	0.506
chr8:26343277-26352902_R	chr8:26343277-26352902_R	lincRNA:chr8:26343277-26352902 reverse strand	0.35	0.035	0.387	0.40	0.035	0.495
chr8:26428975-26490975_R	chr8:26428975-26490975_R	lincRNA:chr8:26428975-26490975 reverse strand	0.48	0.035	0.388	0.68	0.012	0.408

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Dmd	NM_007868	ref Mus musculus dystrophin, muscular dystrophy (Dmd), mRNA [NM_007868]	0.43	0.035	0.388	0.63	0.038	0.499
chr12:3199327-3200827_F	chr12:3199327-3200827_F	lincRNA:chr12:3199327-3200827 forward strand	0.28	0.035	0.388	0.31	0.019	0.439
chr1:85156338-85167730_R	chr1:85156338-85167730_R	lincRNA:chr1:85156338-85167730 reverse strand	0.31	0.035	0.388	0.33	0.030	0.479
chr1:161969026-162001640_F	chr1:161969026-162001640_F	lincRNA:chr1:161969026-162001640 forward strand	0.44	0.035	0.388	0.39	0.023	0.453
Psmd11	NM_178616	ref Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (Psmd11), mRNA [NM_178616]	0.31	0.035	0.389	0.35	0.048	0.517
Olfr508	NM_146773	ref Mus musculus olfactory receptor 508 (Olfr508), mRNA [NM_146773]	0.51	0.035	0.391	0.56	0.033	0.490
chr1:138570107-138632310_R	chr1:138570107-138632310_R	lincRNA:chr1:138570107-138632310 reverse strand	0.37	0.035	0.391	0.33	0.034	0.493
Slc30a4	NM_011774	ref Mus musculus solute carrier family 30 (zinc transporter), member 4 (Slc30a4), mRNA [NM_011774]	0.26	0.035	0.391	0.32	0.013	0.412
Btg3	NM_009770	ref Mus musculus B-cell translocation gene 3 (Btg3), mRNA [NM_009770]	0.34	0.035	0.391	0.42	0.007	0.384
Cry2	NM_001113333	ref Mus musculus cryptochrome 2 (photolyase-like) (Cry2), transcript variant 2, mRNA [NM_001113333]	0.26	0.036	0.391	0.40	0.039	0.500
chr18:5119300-5181600_R	chr18:5119300-5181600_R	lincRNA:chr18:5119300-5181600 reverse strand	0.42	0.036	0.392	0.47	0.044	0.512
Zfp703	NM_001110508	ref Mus musculus zinc finger protein 703 (Zfp703), transcript variant 2, mRNA [NM_001110508]	0.26	0.036	0.392	0.46	0.022	0.452
Gm14048	XR_005128	ref PREDICTED: Mus musculus similar to proteasome 26S non-ATPase subunit 11 (LOC627316), misc RNA [XR_005128]	0.30	0.036	0.393	0.36	0.029	0.477
XM_001477039	XM_001477039	ref PREDICTED: Mus musculus similar to quaking type II (LOC675815), mRNA [XM_001477039]	0.46	0.036	0.393	0.53	0.046	0.513
chr1:138570107-138632310_R	chr1:138570107-138632310_R	lincRNA:chr1:138570107-138632310 reverse strand	0.38	0.036	0.394	0.82	0.000	0.098

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Nsa2	NM_021552	ref Mus musculus NSA2 ribosome biogenesis homolog (S. cerevisiae) (Nsa2), mRNA [NM_021552]	0.23	0.036	0.395	0.27	0.027	0.473
chr9:88338621-88338923_F	chr9:88338621-88338923_F	lincRNA:chr9:88338621-88338923 forward strand	0.39	0.036	0.395	0.53	0.012	0.408
chr19:7458725-7474825_F	chr19:7458725-7474825_F	lincRNA:chr19:7458725-7474825 forward strand	0.34	0.037	0.398	0.44	0.050	0.520
Mlycd	NM_019966	ref Mus musculus malonyl-CoA decarboxylase (Mlycd), nuclear gene encoding mitochondrial protein, mRNA [NM_019966]	0.27	0.037	0.399	0.23	0.040	0.504
chr6:122725638-122752828_F	chr6:122725638-122752828_F	lincRNA:chr6:122725638-122752828 forward strand	0.35	0.037	0.399	0.49	0.010	0.406
D830031N03Rik	NM_001167918	ref Mus musculus RIKEN cDNA D830031N03 gene (D830031N03Rik), mRNA [NM_001167918]	0.59	0.037	0.400	0.96	0.022	0.453
lincP21	lincP21	lincRNA:chr17:29194418-29215906 reverse strand	0.43	0.037	0.401	0.56	0.020	0.447
Tmem38b	NM_028053	ref Mus musculus transmembrane protein 38B (Tmem38b), mRNA [NM_028053]	0.47	0.038	0.402	0.70	0.043	0.509
Gm8663	XR_002172	ref PREDICTED: Mus musculus predicted gene, EG667490 (EG667490), misc RNA [XR_002172]	0.22	0.038	0.404	0.35	0.042	0.508
chr18:57104718-57105355_F	chr18:57104718-57105355_F	lincRNA:chr18:57104718-57105355 forward strand	0.33	0.038	0.405	0.45	0.027	0.472
chr2:48807211-48843911_F	chr2:48807211-48843911_F	lincRNA:chr2:48807211-48843911 forward strand	0.42	0.038	0.406	0.56	0.006	0.369
Trib1	NM_144549	ref Mus musculus tribbles homolog 1 (Drosophila) (Trib1), mRNA [NM_144549]	0.30	0.038	0.407	0.37	0.041	0.505
Gm5092	XM_001477465	ref PREDICTED: Mus musculus hypothetical protein 4933430A09 (4933430A09), mRNA [XM_001477465]	1.25	0.038	0.407	1.22	0.041	0.506
Scyl2	NM_198021	ref Mus musculus SCY1-like 2 (S. cerevisiae) (Scyl2), mRNA [NM_198021]	0.27	0.039	0.407	0.47	0.045	0.513
Rcc2	NM_173867	ref Mus musculus regulator of chromosome condensation 2 (Rcc2), mRNA [NM_173867]	0.22	0.039	0.407	0.34	0.028	0.474
Pdcl3	NM_026850	ref Mus musculus phosducin-like 3 (Pdcl3), mRNA [NM_026850]	0.21	0.039	0.409	0.23	0.049	0.519

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Sumo3	NM_019929	ref Mus musculus SMT3 suppressor of mif two 3 homolog 3 (yeast) (Sumo3), mRNA [NM_019929]	0.21	0.039	0.409	0.31	0.018	0.435
Csnk1e	NM_013767	ref Mus musculus casein kinase 1, epsilon (Csnk1e), mRNA [NM_013767]	0.27	0.039	0.412	0.44	0.041	0.505
chr2:79521628-79521871_F	chr2:79521628-79521871_F	lincRNA:chr2:79521628-79521871 forward strand	0.38	0.039	0.412	0.47	0.047	0.515
chr2:79517813-79518321_F	chr2:79517813-79518321_F	lincRNA:chr2:79517813-79518321 forward strand	0.28	0.039	0.412	0.46	0.049	0.519
chr9:14460976-14488051_R	chr9:14460976-14488051_R	lincRNA:chr9:14460976-14488051 reverse strand	0.45	0.039	0.412	0.38	0.041	0.505
Ppm1e	NM_177167	ref Mus musculus protein phosphatase 1E (PP2C domain containing) (Ppm1e), mRNA [NM_177167]	0.35	0.040	0.413	0.29	0.036	0.496
LOC100216343	AK040843	gb Mus musculus adult male aorta and vein cDNA, RIKEN full-length enriched library, clone:A530029P05 product:unclassifiable, full insert sequence. [AK040843]	0.44	0.040	0.413	0.65	0.018	0.435
Rbm33	NM_028234	ref Mus musculus RNA binding motif protein 33 (Rbm33), mRNA [NM_028234]	0.26	0.040	0.416	0.52	0.049	0.519
Cpsf7	NM_172302	ref Mus musculus cleavage and polyadenylation specific factor 7 (Cpsf7), transcript variant 1, mRNA [NM_172302]	0.16	0.040	0.416	0.22	0.041	0.506
Olfr1490	NM_001011832	ref Mus musculus olfactory receptor 1490 (Olfr1490), mRNA [NM_001011832]	0.51	0.040	0.416	0.50	0.038	0.499
chr14:27930334-27930974_F	chr14:27930334-27930974_F	lincRNA:chr14:27930334-27930974 forward strand	0.41	0.040	0.416	0.63	0.022	0.452
Gm4212	XM_001479085	ref PREDICTED: Mus musculus hypothetical protein LOC100043076 (LOC100043076), mRNA [XM_001479085]	0.56	0.040	0.417	0.63	0.044	0.511
Ptch1	ENSMUST00000021921	ens patched homolog 1 Gene [Source:MGI Symbol;Acc:MGI:105373] [ENSMUST00000021921]	0.43	0.041	0.418	0.63	0.017	0.435
Dhx15	NM_001042620	ref Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 15 (Dhx15), transcript variant 1, mRNA [NM_001042620]	0.19	0.041	0.418	0.30	0.029	0.477

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value	logFC mG4H-STZ	P-value	Adj. P-value
LOC100048018	XM_001479650	ref PREDICTED: Mus musculus similar to complement component factor H (LOC100048018), mRNA [XM_001479650]	0.35	0.041	0.421	0.37	0.042	0.507
E2f3	NM_010093	ref Mus musculus E2F transcription factor 3 (E2f3), mRNA [NM_010093]	0.21	0.041	0.421	0.23	0.048	0.516
Spty2d1	NM_175318	ref Mus musculus SPT2, Suppressor of Ty, domain containing 1 (S. cerevisiae) (Spty2d1), mRNA [NM_175318]	0.21	0.042	0.423	0.31	0.026	0.471
Plagl1	NM_009538	ref Mus musculus pleiomorphic adenoma gene-like 1 (Plagl1), mRNA [NM_009538]	0.24	0.042	0.424	0.39	0.008	0.392
chr15:32167516-32174417_R	chr15:32167516-32174417_R	lincRNA:chr15:32167516-32174417 reverse strand	0.36	0.042	0.426	0.41	0.003	0.281
Csnk1e	NM_013767	ref Mus musculus casein kinase 1, epsilon (Csnk1e), mRNA [NM_013767]	0.27	0.043	0.427	0.41	0.039	0.501
chr8:34646787-34680312_R	chr8:34646787-34680312_R	lincRNA:chr8:34646787-34680312 reverse strand	0.56	0.043	0.427	0.63	0.023	0.454
Foxk1	NM_199068	ref Mus musculus forkhead box K1 (Foxk1), mRNA [NM_199068]	0.27	0.043	0.429	0.33	0.027	0.471
Gm10837	ENSMUST00000100294	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UTT8] [ENSMUST00000100294]	0.33	0.043	0.429	0.36	0.040	0.501
Gm8149	XM_001475155	ref PREDICTED: Mus musculus predicted gene, EG666529, transcript variant 1 (EG666529), mRNA [XM_001475155]	0.57	0.044	0.430	0.64	0.042	0.507
Prune	NM_173347	ref Mus musculus prune homolog (Drosophila) (Prune), mRNA [NM_173347]	0.24	0.044	0.431	0.27	0.039	0.500
Mmp27	NM_001030289	ref Mus musculus matrix metalloproteinase 27 (Mmp27), mRNA [NM_001030289]	0.28	0.044	0.435	0.40	0.019	0.441
chr7:137669440-137672712_F	chr7:137669440-137672712_F	lincRNA:chr7:137669440-137672712 forward strand	0.41	0.045	0.437	0.37	0.031	0.481
Ddx27	NM_153065	ref Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 27 (Ddx27), mRNA [NM_153065]	0.18	0.045	0.437	0.30	0.026	0.470

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Vmn2r109	NM_001104571	ref Mus musculus vomeronasal 2, receptor 109 (Vmn2r109), mRNA [NM_001104571]	0.65	0.045	0.441	0.63	0.044	0.512
AA763521	BX523390	gb BX523390 Knowles Solter mouse 2 cell Mus musculus cDNA clone IMAGp998P122704 ; IMAGE:1080827, mRNA sequence [BX523390]	0.29	0.046	0.443	0.35	0.036	0.495
Ubqln1	NM_152234	ref Mus musculus ubiquilin 1 (Ubqln1), transcript variant 2, mRNA [NM_152234]	0.23	0.046	0.443	0.37	0.040	0.501
Ulk3	NM_027895	ref Mus musculus unc-51-like kinase 3 (C. elegans) (Ulk3), mRNA [NM_027895]	0.83	0.046	0.443	0.93	0.008	0.391
Prph	NM_013639	ref Mus musculus peripherin (Prph), transcript variant 1, mRNA [NM_013639]	0.34	0.046	0.444	0.40	0.018	0.435
Ctdsp2	NM_146012	ref Mus musculus CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2 (Ctdsp2), transcript variant b, mRNA [NM_146012]	0.27	0.046	0.444	0.41	0.012	0.410
Rplp0	NM_007475	ref Mus musculus ribosomal protein, large, P0 (Rplp0), mRNA [NM_007475]	0.21	0.046	0.444	0.29	0.015	0.421
Ppp1r12a	NM_027892	ref Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 12A (Ppp1r12a), mRNA [NM_027892]	0.28	0.047	0.446	0.35	0.049	0.519
chr14:73729977-73751877_R	chr14:73729977-73751877_R	lincRNA:chr14:73729977-73751877 reverse strand	0.42	0.047	0.446	0.58	0.014	0.418
Il1f8	NM_027163	ref Mus musculus interleukin 1 family, member 8 (Il1f8), mRNA [NM_027163]	0.61	0.047	0.446	0.64	0.015	0.420
chr2:112014068-112049540_F	chr2:112014068-112049540_F	lincRNA:chr2:112014068-112049540 forward strand	0.37	0.047	0.446	0.57	0.013	0.412
Cyp4f15	NM_134127	ref Mus musculus cytochrome P450, family 4, subfamily f, polypeptide 15 (Cyp4f15), mRNA [NM_134127]	0.43	0.047	0.446	0.54	0.018	0.435
chr9:88333945-88342370_R	chr9:88333945-88342370_R	lincRNA:chr9:88333945-88342370 reverse strand	0.39	0.047	0.447	0.66	0.014	0.418
Spata19	NM_029299	ref Mus musculus spermatogenesis associated 19 (Spata19), mRNA [NM_029299]	0.53	0.047	0.447	0.45	0.046	0.513
Cdon	NM_021339	ref Mus musculus cell adhesion molecule-related/down-regulated by oncogenes (Cdon), mRNA [NM_021339]	0.30	0.047	0.447	0.48	0.008	0.391

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000116172	ENSMUST00000116172	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q3UXY7] [ENSMUST00000116172]	0.31	0.047	0.447	0.34	0.023	0.454
Sidt2	NM_172257	ref Mus musculus SID1 transmembrane family, member 2 (Sidt2), mRNA [NM_172257]	0.31	0.047	0.447	0.43	0.016	0.426
1110015O18Rik	AK003731	gb Mus musculus 18-day embryo whole body cDNA, RIKEN full-length enriched library, clone:1110015O18 product:unclassifiable, full insert sequence. [AK003731]	0.52	0.047	0.447	0.48	0.027	0.472
Hnrpd1	NM_016690	ref Mus musculus heterogeneous nuclear ribonucleoprotein D-like (Hnrpd1), mRNA [NM_016690]	0.23	0.047	0.448	0.37	0.019	0.441
Ddx50	NM_053183	ref Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 (Ddx50), mRNA [NM_053183]	0.22	0.048	0.449	0.39	0.014	0.416
Gbx2	NM_010262	ref Mus musculus gastrulation brain homeobox 2 (Gbx2), mRNA [NM_010262]	0.40	0.048	0.449	0.51	0.020	0.443
Prepl	NM_001163622	ref Mus musculus prolyl endopeptidase-like (Prepl), transcript variant 1, mRNA [NM_001163622]	0.23	0.048	0.449	0.29	0.022	0.450
ENSMUST00000115034	ENSMUST00000115034	ens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1 Gene [Source:MGI (curated);Acc:MGI:1935127] [ENSMUST00000115034]	0.31	0.048	0.449	0.39	0.018	0.437
Rassf1	NM_019713	ref Mus musculus Ras association (RalGDS/AF-6) domain family member 1 (Rassf1), mRNA [NM_019713]	0.22	0.048	0.450	0.31	0.040	0.501
Aire	NM_009646	ref Mus musculus autoimmune regulator (autoimmune polyendocrinopathy candidiasis ectodermal dystrophy) (Aire), mRNA [NM_009646]	0.40	0.048	0.450	0.53	0.004	0.338
Ltbp2	NM_013589	ref Mus musculus latent transforming growth factor beta binding protein 2 (Ltbp2), mRNA [NM_013589]	0.67	0.048	0.451	0.46	0.021	0.449
Ankrd34a	NM_001024851	ref Mus musculus ankyrin repeat domain 34A (Ankrd34a), mRNA [NM_001024851]	0.29	0.049	0.455	0.40	0.009	0.398
chr10:39383665-39442690_R	chr10:39383665-39442690_R	lincRNA:chr10:39383665-39442690 reverse strand	0.92	0.049	0.456	1.02	0.032	0.484

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Klc4	NM_029091	ref Mus musculus kinesin light chain 4 (Klc4), mRNA [NM_029091]	0.18	0.049	0.456	0.30	0.037	0.497
chr13:66381200-66410200_R	chr13:66381200-66410200_R	lincRNA:chr13:66381200-66410200 reverse strand	0.38	0.049	0.456	0.75	0.005	0.346
chr15:73227424-73257474_F	chr15:73227424-73257474_F	lincRNA:chr15:73227424-73257474 forward strand	0.41	0.049	0.456	0.50	0.031	0.482
Btn2a2	NM_175938	ref Mus musculus butyrophilin, subfamily 2, member A2 (Btn2a2), mRNA [NM_175938]	0.96	0.050	0.457	1.22	0.018	0.436
Ces7	NM_001003951	ref Mus musculus carboxylesterase 7 (Ces7), mRNA [NM_001003951]	0.32	0.050	0.458	0.49	0.002	0.266
Rasl10a	NM_145216	ref Mus musculus RAS-like, family 10, member A (Rasl10a), mRNA [NM_145216]	-1.27	0.000	0.001	-0.92	0.003	0.290
Prss55	NM_001081063	ref Mus musculus protease, serine, 55 (Prss55), mRNA [NM_001081063]	-1.51	0.000	0.001	-1.02	0.001	0.167
Cacna1g	NM_009783	ref Mus musculus calcium channel, voltage-dependent, T type, alpha 1G subunit (Cacna1g), transcript variant 1, mRNA [NM_009783]	-1.25	0.000	0.001	-1.07	0.000	0.022
Grin3b	NM_130455	ref Mus musculus glutamate receptor, ionotropic, NMDA3B (Grin3b), mRNA [NM_130455]	-1.23	0.000	0.001	-1.26	0.000	0.042
Hcn2	NM_008226	ref Mus musculus hyperpolarization-activated, cyclic nucleotide-gated K+ 2 (Hcn2), mRNA [NM_008226]	-0.96	0.000	0.002	-0.77	0.000	0.042
Snrnp25	NM_030093	ref Mus musculus small nuclear ribonucleoprotein 25 (U11/U12) (Snrnp25), mRNA [NM_030093]	-0.60	0.000	0.003	-0.50	0.001	0.169
Thrsp	NM_009381	ref Mus musculus thyroid hormone responsive SPOT14 homolog (Rattus) (Thrsp), mRNA [NM_009381]	-1.21	0.000	0.003	-1.07	0.000	0.048
Aqp1	NM_007472	ref Mus musculus aquaporin 1 (Aqp1), mRNA [NM_007472]	-1.29	0.000	0.003	-0.81	0.022	0.450
Tmem179	NM_178915	ref Mus musculus transmembrane protein 179 (Tmem179), mRNA [NM_178915]	-0.72	0.000	0.003	-0.39	0.009	0.398
Dhrs7c	NM_001013013	ref Mus musculus dehydrogenase/reductase (SDR family) member 7C (Dhrs7c), mRNA [NM_001013013]	-1.00	0.000	0.003	-0.66	0.001	0.248
chr13:28477490-28985604_R	chr13:28477490-28985604_R	lincRNA:chr13:28477490-28985604 reverse strand	-0.88	0.000	0.003	-0.79	0.001	0.169

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Lrp3	NM_001024707	ref Mus musculus low density lipoprotein receptor-related protein 3 (Lrp3), mRNA [NM_001024707]	-0.72	0.000	0.003	-0.44	0.002	0.281
Fam81a	NM_029784	ref Mus musculus family with sequence similarity 81, member A (Fam81a), mRNA [NM_029784]	-1.12	0.000	0.004	-1.01	0.002	0.257
Cux2	ENSMUST00000111752	ens cut-like homeobox 2 Gene [Source:MGI (curated);Acc:MGI:107321] [ENSMUST00000111752]	-1.36	0.000	0.004	-0.98	0.001	0.210
Cryba4	NM_021351	ref Mus musculus crystallin, beta A4 (Cryba4), mRNA [NM_021351]	-1.32	0.000	0.004	-1.04	0.009	0.393
Camk2b	NM_001174053	ref Mus musculus calcium/calmodulin-dependent protein kinase II, beta (Camk2b), transcript variant 1, mRNA [NM_001174053]	-1.04	0.000	0.004	-0.84	0.002	0.257
ENSMUST00000108435	ENSMUST00000108435	ens TLC domain containing 2 Gene [Source:MGI (curated);Acc:MGI:1917141] [ENSMUST00000108435]	-1.04	0.000	0.004	-0.84	0.000	0.118
Foxo6	NM_194060	ref Mus musculus forkhead box O6 (Foxo6), mRNA [NM_194060]	-1.92	0.000	0.004	-1.32	0.000	0.148
Cyfp2	NM_133769	ref Mus musculus cytoplasmic FMR1 interacting protein 2 (Cyfp2), mRNA [NM_133769]	-0.87	0.000	0.004	-0.83	0.001	0.171
Gm14492	NR_033261	ref Mus musculus predicted gene 14492 (Gm14492), non-coding RNA [NR_033261]	-1.38	0.000	0.005	-0.96	0.010	0.403
ENSMUST00000106604	ENSMUST00000106604	ens RIKEN cDNA 1700092K14 gene Gene [Source:MGI Symbol;Acc:MGI:1920786] [ENSMUST00000106604]	-1.20	0.000	0.005	-1.22	0.001	0.227
Pla2g5	NM_011110	ref Mus musculus phospholipase A2, group V (Pla2g5), transcript variant 2, mRNA [NM_011110]	-0.83	0.000	0.005	-0.47	0.001	0.167
Clvs1	NM_028940	ref Mus musculus clavesin 1 (Clvs1), mRNA [NM_028940]	-1.36	0.000	0.005	-0.61	0.001	0.222
Mylk4	NM_001166030	ref Mus musculus myosin light chain kinase family, member 4 (Mylk4), mRNA [NM_001166030]	-1.55	0.000	0.006	-0.97	0.000	0.157
Plekhh1	NM_181073	ref Mus musculus pleckstrin homology domain containing, family H (with MyTH4 domain) member 1 (Plekhh1), mRNA [NM_181073]	-1.28	0.000	0.006	-1.23	0.000	0.048
Ssx2ip	NM_138744	ref Mus musculus synovial sarcoma, X breakpoint 2 interacting protein (Ssx2ip), mRNA [NM_138744]	-0.64	0.000	0.006	-0.54	0.000	0.095

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Tmc7	NM_172476	ref Mus musculus transmembrane channel-like gene family 7 (Tmc7), mRNA [NM_172476]	-0.66	0.000	0.006	-0.39	0.035	0.494
Cryba4	ENSMUST00000112385	ens crystallin, beta A4 Gene [Source:MGI (curated);Acc:MGI:102716] [ENSMUST00000112385]	-1.19	0.000	0.006	-0.99	0.006	0.369
Pla2g5	NM_001122954	ref Mus musculus phospholipase A2, group V (Pla2g5), transcript variant 1, mRNA [NM_001122954]	-0.94	0.000	0.007	-0.55	0.001	0.205
D830015G02Rik	NR_033497	ref Mus musculus RIKEN cDNA D830015G02 gene (D830015G02Rik), non-coding RNA [NR_033497]	-1.23	0.000	0.007	-0.90	0.000	0.157
chr10:69679644-69682458_F	chr10:69679644-69682458_F	lincRNA:chr10:69679644-69682458 forward strand	-1.05	0.000	0.007	-0.73	0.002	0.262
Usf2	NM_011680	ref Mus musculus upstream transcription factor 2 (Usf2), mRNA [NM_011680]	-0.57	0.000	0.007	-0.29	0.006	0.369
Cacna1g	NM_009783	ref Mus musculus calcium channel, voltage-dependent, T type, alpha 1G subunit (Cacna1g), transcript variant 1, mRNA [NM_009783]	-1.33	0.000	0.007	-1.26	0.000	0.136
Tnnt1	NM_011618	ref Mus musculus troponin T1, skeletal, slow (Tnnt1), mRNA [NM_011618]	-0.68	0.000	0.007	-0.36	0.014	0.418
Rnf208	NM_176834	ref Mus musculus ring finger protein 208 (Rnf208), mRNA [NM_176834]	-1.01	0.000	0.008	-0.98	0.000	0.134
2310015B20Rik	ENSMUST00000020090	ens RIKEN cDNA 2310015B20 gene Gene [Source:MGI Symbol;Acc:MGI:1916813] [ENSMUST00000020090]	-1.04	0.000	0.008	-0.80	0.006	0.369
Slc22a1	NM_009202	ref Mus musculus solute carrier family 22 (organic cation transporter), member 1 (Slc22a1), mRNA [NM_009202]	-1.28	0.000	0.008	-1.00	0.000	0.160
P2ry1	NM_008772	ref Mus musculus purinergic receptor P2Y, G-protein coupled 1 (P2ry1), mRNA [NM_008772]	-0.89	0.000	0.009	-0.63	0.002	0.281
Fam131a	NM_133778	ref Mus musculus family with sequence similarity 131, member A (Fam131a), mRNA [NM_133778]	-0.70	0.000	0.009	-0.50	0.015	0.421
Bmp7	NM_007557	ref Mus musculus bone morphogenetic protein 7 (Bmp7), mRNA [NM_007557]	-0.74	0.000	0.010	-0.48	0.026	0.470
Mvk	NM_023556	ref Mus musculus mevalonate kinase (Mvk), mRNA [NM_023556]	-0.57	0.000	0.010	-0.55	0.001	0.183
chr10:69679644-69682458_F	chr10:69679644-69682458_F	lincRNA:chr10:69679644-69682458 forward strand	-0.99	0.000	0.010	-0.83	0.006	0.369

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Padi2	NM_008812	ref Mus musculus peptidyl arginine deiminase, type II (Padi2), mRNA [NM_008812]	-1.41	0.000	0.010	-1.43	0.001	0.210
Crybb1	NM_023695	ref Mus musculus crystallin, beta B1 (Crybb1), mRNA [NM_023695]	-1.06	0.000	0.010	-0.67	0.007	0.374
chr10:69669025-69686275_F	chr10:69669025-69686275_F	lincRNA:chr10:69669025-69686275 forward strand	-0.91	0.000	0.010	-0.69	0.003	0.281
Ypel2	NM_001005341	ref Mus musculus yippee-like 2 (Drosophila) (Ypel2), mRNA [NM_001005341]	-0.57	0.000	0.011	-0.40	0.023	0.453
Slc36a2	NM_153170	ref Mus musculus solute carrier family 36 (proton/amino acid symporter), member 2 (Slc36a2), mRNA [NM_153170]	-0.82	0.000	0.011	-0.73	0.002	0.258
Higd1a	NM_019814	ref Mus musculus HIG1 domain family, member 1A (Higd1a), mRNA [NM_019814]	-0.62	0.000	0.012	-0.48	0.001	0.210
Crybb1	NM_023695	ref Mus musculus crystallin, beta B1 (Crybb1), mRNA [NM_023695]	-1.11	0.000	0.012	-0.93	0.002	0.281
chr10:69669025-69686275_F	chr10:69669025-69686275_F	lincRNA:chr10:69669025-69686275 forward strand	-0.94	0.000	0.012	-0.70	0.006	0.369
Metrn	NM_133719	ref Mus musculus meteorin, glial cell differentiation regulator (Metrn), mRNA [NM_133719]	-1.00	0.000	0.012	-0.81	0.002	0.281
chr10:69669025-69686275_F	chr10:69669025-69686275_F	lincRNA:chr10:69669025-69686275 forward strand	-0.98	0.000	0.012	-0.81	0.001	0.231
chr10:39666719-39679959_R	chr10:39666719-39679959_R	lincRNA:chr10:39666719-39679959 reverse strand	-0.65	0.000	0.012	-0.95	0.012	0.408
Htra1	NM_019564	ref Mus musculus HtrA serine peptidase 1 (Htra1), mRNA [NM_019564]	-0.61	0.000	0.012	-0.44	0.004	0.318
A930005I04Rik	NM_207277	ref Mus musculus RIKEN cDNA A930005I04 gene (A930005I04Rik), mRNA [NM_207277]	-1.12	0.000	0.012	-0.98	0.000	0.156
Tceal5	NM_177919	ref Mus musculus transcription elongation factor A (SII)-like 5 (Tceal5), mRNA [NM_177919]	-0.67	0.000	0.012	-0.54	0.009	0.399
Cdkn1c	NM_009876	ref Mus musculus cyclin-dependent kinase inhibitor 1C (P57) (Cdkn1c), transcript variant 2, mRNA [NM_009876]	-0.88	0.000	0.012	-0.61	0.000	0.136
Gamt	NM_010255	ref Mus musculus guanidinoacetate methyltransferase (Gamt), mRNA [NM_010255]	-0.94	0.000	0.013	-1.01	0.009	0.398

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Pik3r4	NM_001081309	ref Mus musculus phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 4, p150 (Pik3r4), mRNA [NM_001081309]	-0.45	0.000	0.013	-0.43	0.001	0.248
AW555464	NM_001024602	ref Mus musculus expressed sequence AW555464 (AW555464), mRNA [NM_001024602]	-0.50	0.000	0.014	-0.21	0.033	0.487
Endog	NM_007931	ref Mus musculus endonuclease G (Endog), nuclear gene encoding mitochondrial protein, mRNA [NM_007931]	-0.57	0.000	0.015	-0.42	0.007	0.377
Ttll1	NM_178869	ref Mus musculus tubulin tyrosine ligase-like 1 (Ttll1), mRNA [NM_178869]	-0.89	0.000	0.015	-0.66	0.002	0.258
Rab40b	NM_139147	ref Mus musculus Rab40b, member RAS oncogene family (Rab40b), mRNA [NM_139147]	-0.58	0.000	0.015	-0.57	0.000	0.134
Mterfd3	NM_028832	ref Mus musculus MTERF domain containing 3 (Mterfd3), mRNA [NM_028832]	-0.66	0.000	0.015	-0.63	0.002	0.281
Gzmm	NM_008504	ref Mus musculus granzyme M (lymphocyte met-ase 1) (Gzmm), mRNA [NM_008504]	-0.57	0.000	0.015	-0.45	0.011	0.407
2900008C10Rik	XM_001477165	ref PREDICTED: Mus musculus RIKEN cDNA 2900008C10 gene (2900008C10Rik), mRNA [XM_001477165]	-0.79	0.000	0.016	-0.66	0.001	0.248
Msrb2	NM_029619	ref Mus musculus methionine sulfoxide reductase B2 (Msrb2), mRNA [NM_029619]	-0.55	0.000	0.016	-0.37	0.011	0.406
Ifitm7	NM_028968	ref Mus musculus interferon induced transmembrane protein 7 (Ifitm7), mRNA [NM_028968]	-0.47	0.000	0.017	-0.23	0.035	0.494
Hist1h4i	NM_175656	ref Mus musculus histone cluster 1, H4i (Hist1h4i), mRNA [NM_175656]	-0.51	0.000	0.017	-0.37	0.018	0.435
Plekhg3	NM_153804	ref Mus musculus pleckstrin homology domain containing, family G (with RhoGef domain) member 3 (Plekhg3), mRNA [NM_153804]	-0.43	0.000	0.017	-0.19	0.049	0.519
Creb5	NM_172728	ref Mus musculus cAMP responsive element binding protein 5 (Creb5), mRNA [NM_172728]	-0.53	0.000	0.017	-0.29	0.015	0.418
Ephb3	NM_010143	ref Mus musculus Eph receptor B3 (Ephb3), mRNA [NM_010143]	-0.49	0.000	0.019	-0.33	0.011	0.406

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST0000068438	ENSMUST0000068438	ens RIKEN cDNA 4931431C16 gene Gene [Source:MGI Symbol;Acc:MGI:1921614] [ENSMUST0000068438]	-0.76	0.000	0.019	-0.94	0.005	0.355
ENSMUST00000102977	ENSMUST00000102977	ens histone cluster 1, H4i Gene [Source:MGI (curated);Acc:MGI:2448432] [ENSMUST00000102977]	-0.59	0.000	0.019	-0.55	0.010	0.404
BC057022	NM_001004180	ref Mus musculus cDNA sequence BC057022 (BC057022), mRNA [NM_001004180]	-1.15	0.000	0.019	-0.90	0.013	0.412
chr4:119963954-119976499_F	chr4:119963954-119976499_F	lincRNA:chr4:119963954-119976499 forward strand	-0.78	0.000	0.020	-0.77	0.000	0.101
Amigo3	NM_177275	ref Mus musculus adhesion molecule with Ig like domain 3 (Amigo3), mRNA [NM_177275]	-1.14	0.000	0.020	-0.99	0.005	0.349
Mdga1	NM_001081160	ref Mus musculus MAM domain containing glycosylphosphatidylinositol anchor 1 (Mdga1), mRNA [NM_001081160]	-1.26	0.000	0.021	-0.92	0.005	0.354
Madd	NM_001177720	ref Mus musculus MAP-kinase activating death domain (Madd), transcript variant 11, mRNA [NM_001177720]	-0.45	0.000	0.021	-0.24	0.038	0.499
Gp9	NM_018762	ref Mus musculus glycoprotein 9 (platelet) (Gp9), mRNA [NM_018762]	-0.85	0.000	0.021	-0.68	0.026	0.471
Zfp428	NM_146183	ref Mus musculus zinc finger protein 428 (Zfp428), mRNA [NM_146183]	-0.62	0.000	0.021	-0.47	0.000	0.136
Paqr4	NM_023824	ref Mus musculus progesterone and adipoQ receptor family member IV (Paqr4), mRNA [NM_023824]	-0.62	0.000	0.021	-0.72	0.004	0.316
2610528E23Rik	NM_025599	ref Mus musculus RIKEN cDNA 2610528E23 gene (2610528E23Rik), mRNA [NM_025599]	-0.62	0.000	0.021	-0.36	0.010	0.400
Morn4	NM_198108	ref Mus musculus MORN repeat containing 4 (Morn4), mRNA [NM_198108]	-0.59	0.000	0.022	-0.69	0.001	0.248
Cep55	NM_028760	ref Mus musculus centrosomal protein 55 (Cep55), transcript variant 2, mRNA [NM_028760]	-0.53	0.000	0.023	-0.42	0.001	0.196
Mal	NM_010762	ref Mus musculus myelin and lymphocyte protein, T-cell differentiation protein (Mal), transcript variant 1, mRNA [NM_010762]	-0.58	0.000	0.023	-0.43	0.005	0.354
H2-Ob	NM_010389	ref Mus musculus histocompatibility 2, O region beta locus (H2-Ob), mRNA [NM_010389]	-1.07	0.000	0.023	-0.67	0.014	0.414

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Fam54a	NM_027930	ref Mus musculus family with sequence similarity 54, member A (Fam54a), mRNA [NM_027930]	-0.44	0.000	0.024	-0.21	0.044	0.512
F730047E07Rik	NM_199467	ref Mus musculus RIKEN cDNA F730047E07 gene (F730047E07Rik), mRNA [NM_199467]	-0.41	0.000	0.024	-0.24	0.027	0.473
Acs16	NM_001033599	ref Mus musculus acyl-CoA synthetase long-chain family member 6 (Acs16), transcript variant 4, mRNA [NM_001033599]	-0.91	0.000	0.024	-0.77	0.000	0.117
5830408B19Rik	AK017909	gb Mus musculus adult male thymus cDNA, RIKEN full-length enriched library, clone:5830408B19 product:unclassifiable, full insert sequence. [AK017909]	-0.65	0.000	0.024	-0.64	0.006	0.356
Eya1	NM_010164	ref Mus musculus eyes absent 1 homolog (Drosophila) (Eya1), mRNA [NM_010164]	-0.43	0.000	0.024	-0.26	0.023	0.456
Gm12501	XR_032348	ref PREDICTED: Mus musculus similar to Siva1 protein (LOC668686), misc RNA [XR_032348]	-0.49	0.000	0.024	-0.54	0.000	0.157
chr5:120269342-120279542_R	chr5:120269342-120279542_R	lincRNA:chr5:120269342-120279542 reverse strand	-0.53	0.000	0.025	-0.51	0.017	0.435
Gm8572	XR_033692	ref PREDICTED: Mus musculus similar to Ran-interacting protein MOG1 (LOC667317), misc RNA [XR_033692]	-0.49	0.000	0.025	-0.44	0.000	0.157
ENSMUST00000100627	ENSMUST00000100627	ens tripartite motif-containing 25 Gene [Source:MGI (curated);Acc:MGI:102749] [ENSMUST00000100627]	-0.44	0.000	0.025	-0.22	0.037	0.498
Tspan33	NM_146173	ref Mus musculus tetraspanin 33 (Tspan33), mRNA [NM_146173]	-0.78	0.000	0.025	-0.47	0.034	0.491
Ghr	NM_010284	ref Mus musculus growth hormone receptor (Ghr), transcript variant 1, mRNA [NM_010284]	-0.52	0.000	0.026	-0.26	0.010	0.403
Wif1	NM_011915	ref Mus musculus Wnt inhibitory factor 1 (Wif1), mRNA [NM_011915]	-1.25	0.000	0.027	-1.01	0.002	0.257
Tmprss13	NM_001013373	ref Mus musculus transmembrane protease, serine 13 (Tmprss13), mRNA [NM_001013373]	-1.37	0.000	0.027	-1.25	0.003	0.281
Gamt	NM_010255	ref Mus musculus guanidinoacetate methyltransferase (Gamt), mRNA [NM_010255]	-0.98	0.000	0.027	-1.00	0.010	0.403
Sh2d4a	NM_028182	ref Mus musculus SH2 domain containing 4A (Sh2d4a), mRNA [NM_028182]	-1.27	0.000	0.027	-0.81	0.004	0.323

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Osbpl6	NM_145525	ref Mus musculus oxysterol binding protein-like 6 (Osbpl6), mRNA [NM_145525]	-1.05	0.000	0.027	-0.91	0.002	0.262
Tmem56	NM_178936	ref Mus musculus transmembrane protein 56 (Tmem56), mRNA [NM_178936]	-0.89	0.000	0.028	-0.59	0.002	0.272
Itsn1	NM_010587	ref Mus musculus intersectin 1 (SH3 domain protein 1A) (Itsn1), transcript variant 1, mRNA [NM_010587]	-0.52	0.000	0.028	-0.27	0.028	0.474
Fndc5	NM_027402	ref Mus musculus fibronectin type III domain containing 5 (Fndc5), mRNA [NM_027402]	-0.58	0.000	0.028	-0.44	0.009	0.398
Reep5	NM_007874	ref Mus musculus receptor accessory protein 5 (Reep5), mRNA [NM_007874]	-0.58	0.000	0.028	-0.42	0.005	0.353
Cyp2u1	ENSMUST00000106337	ens cytochrome P450, family 2, subfamily u, polypeptide 1 Gene [Source:MGI Symbol;Acc:MGI:1918769] [ENSMUST00000106337]	-0.50	0.000	0.028	-0.26	0.032	0.484
chr9:58301467-58323783_R	chr9:58301467-58323783_R	lincRNA:chr9:58301467-58323783 reverse strand	-0.80	0.000	0.028	-0.60	0.033	0.490
Sema4c	NM_001126047	ref Mus musculus sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4C (Sema4c), mRNA [NM_001126047]	-0.51	0.000	0.029	-0.25	0.025	0.464
Tha1	NM_027919	ref Mus musculus threonine aldolase 1 (Tha1), mRNA [NM_027919]	-0.69	0.000	0.029	-0.65	0.002	0.258
chr10:69669025-69686275_F	chr10:69669025-69686275_F	lincRNA:chr10:69669025-69686275 forward strand	-1.12	0.000	0.029	-0.68	0.008	0.392
Eno3	NM_001136062	ref Mus musculus enolase 3, beta muscle (Eno3), transcript variant 2, mRNA [NM_001136062]	-0.45	0.000	0.029	-0.34	0.006	0.365
Gm3255	XM_001476107	ref PREDICTED: Mus musculus similar to VIG (Drosophila Vasa Intronic Gene) ortholog family member (vig-1) (LOC100041289), mRNA [XM_001476107]	-0.48	0.000	0.029	-0.22	0.046	0.513
Sp110	NM_175397	ref Mus musculus Sp110 nuclear body protein (Sp110), mRNA [NM_175397]	-0.50	0.000	0.029	-0.23	0.038	0.499
Ckm	NM_007710	ref Mus musculus creatine kinase, muscle (Ckm), mRNA [NM_007710]	-0.47	0.000	0.029	-0.35	0.003	0.303

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Sfrs12	NM_172592	ref Mus musculus splicing factor, arginine/serine-rich 12 (Sfrs12), mRNA [NM_172592]	-0.39	0.000	0.030	-0.20	0.033	0.490
Pla2g4e	NM_177845	ref Mus musculus phospholipase A2, group IVE (Pla2g4e), mRNA [NM_177845]	-1.44	0.000	0.030	-0.91	0.000	0.136
Hemgn	NM_053149	ref Mus musculus hemogen (Hemgn), mRNA [NM_053149]	-0.50	0.000	0.030	-0.25	0.031	0.482
Gm3380	XM_001476937	ref PREDICTED: Mus musculus similar to ribonuclease T2 (LOC100041510), mRNA [XM_001476937]	-0.62	0.000	0.030	-0.51	0.012	0.408
Gm8219	XR_033111	ref PREDICTED: Mus musculus similar to brain protein 44-like (LOC666659), misc RNA [XR_033111]	-0.45	0.000	0.030	-0.41	0.001	0.184
Pfn2	NM_019410	ref Mus musculus profilin 2 (Pfn2), mRNA [NM_019410]	-0.44	0.000	0.030	-0.44	0.001	0.239
Palm3	NM_028877	ref Mus musculus paralemmi 3 (Palm3), mRNA [NM_028877]	-0.49	0.000	0.030	-0.42	0.012	0.408
Wfdc1	NM_023395	ref Mus musculus WAP four-disulfide core domain 1 (Wfdc1), mRNA [NM_023395]	-0.59	0.000	0.031	-0.55	0.002	0.266
Il4i1	NM_010215	ref Mus musculus interleukin 4 induced 1 (Il4i1), mRNA [NM_010215]	-0.88	0.000	0.031	-1.02	0.018	0.435
Pcdh12	NM_017378	ref Mus musculus protocadherin 12 (Pcdh12), mRNA [NM_017378]	-1.05	0.000	0.032	-1.27	0.011	0.407
6330403A02Rik	NM_001081227	ref Mus musculus RIKEN cDNA 6330403A02 gene (6330403A02Rik), mRNA [NM_001081227]	-0.63	0.000	0.032	-0.45	0.049	0.519
G630090E17Rik	NM_001173500	ref Mus musculus RIKEN cDNA G630090E17 gene (G630090E17Rik), mRNA [NM_001173500]	-0.61	0.000	0.032	-0.91	0.005	0.352
Gja1	NM_010288	ref Mus musculus gap junction protein, alpha 1 (Gja1), mRNA [NM_010288]	-0.51	0.000	0.032	-0.38	0.003	0.288
Gm6748	XM_899893	ref PREDICTED: Mus musculus predicted gene, EG627369 (EG627369), mRNA [XM_899893]	-0.51	0.000	0.033	-0.27	0.028	0.474
Spata20	NM_144827	ref Mus musculus spermatogenesis associated 20 (Spata20), mRNA [NM_144827]	-1.11	0.000	0.033	-0.72	0.000	0.141
Amz2	NM_025275	ref Mus musculus archaelysin family metalloproteinase 2 (Amz2), mRNA [NM_025275]	-0.41	0.000	0.034	-0.39	0.002	0.281

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr11:119250824-119286324_R	chr11:119250824-119286324_R	lincRNA:chr11:119250824-119286324 reverse strand	-0.54	0.000	0.034	-0.61	0.000	0.143
chr10:62267317-62269871_R	chr10:62267317-62269871_R	lincRNA:chr10:62267317-62269871 reverse strand	-1.46	0.000	0.034	-1.34	0.006	0.361
Auts2	NM_177047	ref Mus musculus autism susceptibility candidate 2 (Auts2), mRNA [NM_177047]	-0.58	0.000	0.034	-0.41	0.006	0.369
Trem1	NM_027763	ref Mus musculus triggering receptor expressed on myeloid cells-like 1 (Trem1), mRNA [NM_027763]	-0.64	0.000	0.035	-0.62	0.003	0.281
Suv39h2	NM_022724	ref Mus musculus suppressor of variegation 3-9 homolog 2 (Drosophila) (Suv39h2), transcript variant 1, mRNA [NM_022724]	-0.58	0.000	0.035	-0.23	0.043	0.511
1110021J02Rik	NM_026782	ref Mus musculus RIKEN cDNA 1110021J02 gene (1110021J02Rik), transcript variant 2, mRNA [NM_026782]	-0.45	0.000	0.035	-0.45	0.002	0.278
Zcchc9	NM_145453	ref Mus musculus zinc finger, CCHC domain containing 9 (Zcchc9), mRNA [NM_145453]	-0.48	0.000	0.036	-0.25	0.039	0.501
Spag7	NM_172561	ref Mus musculus sperm associated antigen 7 (Spag7), transcript variant 1, mRNA [NM_172561]	-0.53	0.000	0.036	-0.26	0.027	0.472
Btbd11	NM_028709	ref Mus musculus BTB (POZ) domain containing 11 (Btbd11), transcript variant 1, mRNA [NM_028709]	-0.52	0.000	0.036	-0.43	0.002	0.275
Xrcc3	NM_028875	ref Mus musculus X-ray repair complementing defective repair in Chinese hamster cells 3 (Xrcc3), mRNA [NM_028875]	-1.09	0.000	0.037	-0.80	0.001	0.204
Hist1h2be	NM_178194	ref Mus musculus histone cluster 1, H2be (Hist1h2be), transcript variant 2, mRNA [NM_178194]	-0.60	0.000	0.037	-0.61	0.025	0.466
Gm4516	XM_001480212	ref PREDICTED: Mus musculus hypothetical protein LOC100043557 (LOC100043557), mRNA [XM_001480212]	-0.45	0.000	0.038	-0.23	0.048	0.516
chr4:11899775-11931875_F	chr4:11899775-11931875_F	lincRNA:chr4:11899775-11931875 forward strand	-0.86	0.000	0.038	-0.80	0.001	0.198
Rgs6	NM_015812	ref Mus musculus regulator of G-protein signaling 6 (Rgs6), mRNA [NM_015812]	-0.55	0.000	0.039	-0.30	0.019	0.437

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Luc7l2	NM_138680	ref Mus musculus LUC7-like 2 (S. cerevisiae) (Luc7l2), transcript variant 1, mRNA [NM_138680]	-0.51	0.000	0.039	-0.26	0.029	0.477
Nqo2	NM_020282	ref Mus musculus NAD(P)H dehydrogenase, quinone 2 (Nqo2), transcript variant 1, mRNA [NM_020282]	-0.45	0.000	0.040	-0.37	0.010	0.400
Intu	NM_175515	ref Mus musculus intumed planar cell polarity effector homolog (Drosophila) (Intu), mRNA [NM_175515]	-0.52	0.000	0.040	-0.38	0.004	0.320
Gm12059	XM_001477684	ref PREDICTED: Mus musculus hypothetical protein LOC100046833 (LOC100046833), mRNA [XM_001477684]	-0.54	0.000	0.040	-0.52	0.008	0.391
Gbp5	NM_153564	ref Mus musculus guanylate binding protein 5 (Gbp5), mRNA [NM_153564]	-0.51	0.000	0.040	-0.53	0.037	0.496
Ggct	NM_026637	ref Mus musculus gamma-glutamyl cyclotransferase (Ggct), mRNA [NM_026637]	-0.40	0.000	0.040	-0.37	0.026	0.471
Abcb6	NM_023732	ref Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 6 (Abcb6), nuclear gene encoding mitochondrial protein, mRNA [NM_023732]	-0.49	0.000	0.040	-0.43	0.001	0.184
Kcna7	NM_010596	ref Mus musculus potassium voltage-gated channel, shaker-related subfamily, member 7 (Kcna7), mRNA [NM_010596]	-0.52	0.000	0.041	-0.36	0.025	0.464
Fkbp4	NM_010219	ref Mus musculus FK506 binding protein 4 (Fkbp4), mRNA [NM_010219]	-0.66	0.000	0.041	-0.49	0.038	0.498
Tnfaip8	NM_134131	ref Mus musculus tumor necrosis factor, alpha-induced protein 8 (Tnfaip8), transcript variant 1, mRNA [NM_134131]	-0.88	0.000	0.041	-0.73	0.000	0.109
Nubpl	NM_029760	ref Mus musculus nucleotide binding protein-like (Nubpl), mRNA [NM_029760]	-0.45	0.000	0.041	-0.34	0.025	0.466
Afap1l1	NM_178928	ref Mus musculus actin filament associated protein 1-like 1 (Afap1l1), mRNA [NM_178928]	-0.41	0.000	0.041	-0.33	0.010	0.406
lfngr2	NM_008338	ref Mus musculus interferon gamma receptor 2 (lfngr2), mRNA [NM_008338]	-0.59	0.000	0.042	-0.64	0.008	0.391
N28178	NM_172690	ref Mus musculus expressed sequence N28178 (N28178), mRNA [NM_172690]	-0.47	0.000	0.042	-0.27	0.026	0.470

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Gm2268	XM_001472995	ref PREDICTED: Mus musculus hypothetical protein LOC100039496 (LOC100039496), mRNA [XM_001472995]	-0.56	0.000	0.042	-0.43	0.032	0.483
Mfap3l	NM_027756	ref Mus musculus microfibrillar-associated protein 3-like (Mfap3l), transcript variant 1, mRNA [NM_027756]	-0.57	0.000	0.042	-0.50	0.012	0.412
Ift122	NM_031177	ref Mus musculus intraflagellar transport 122 homolog (Chlamydomonas) (Ift122), transcript variant 1, mRNA [NM_031177]	-0.67	0.000	0.042	-0.65	0.027	0.472
Gm166	NM_001033040	ref Mus musculus predicted gene 166 (Gm166), mRNA [NM_001033040]	-0.62	0.000	0.043	-0.45	0.003	0.306
2410022L05Rik	NM_025556	ref Mus musculus RIKEN cDNA 2410022L05 gene (2410022L05Rik), mRNA [NM_025556]	-0.53	0.000	0.043	-0.54	0.007	0.380
Wdr89	NM_028203	ref Mus musculus WD repeat domain 89 (Wdr89), mRNA [NM_028203]	-0.40	0.000	0.043	-0.22	0.039	0.499
Crhr2	NM_009953	ref Mus musculus corticotropin releasing hormone receptor 2 (Crhr2), mRNA [NM_009953]	-0.66	0.000	0.043	-0.43	0.001	0.208
2310028H24Rik	NM_001159583	ref Mus musculus RIKEN cDNA 2310028H24 gene (2310028H24Rik), transcript variant 1, mRNA [NM_001159583]	-0.46	0.000	0.043	-0.25	0.035	0.495
Neur1a	NM_021360	ref Mus musculus neuralized homolog 1A (Drosophila) (Neur1a), transcript variant 1, mRNA [NM_021360]	-0.54	0.000	0.044	-0.36	0.022	0.451
Cadm4	NM_153112	ref Mus musculus cell adhesion molecule 4 (Cadm4), mRNA [NM_153112]	-0.61	0.000	0.044	-0.47	0.001	0.227
Tufm	NM_001163713	ref Mus musculus Tu translation elongation factor, mitochondrial (Tufm), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA [NM_001163713]	-0.41	0.000	0.045	-0.41	0.004	0.320
Il16	NM_010551	ref Mus musculus interleukin 16 (Il16), mRNA [NM_010551]	-0.75	0.001	0.046	-0.97	0.006	0.356
Gm2595	XM_001474080	ref PREDICTED: Mus musculus hypothetical protein LOC100040093 (LOC100040093), mRNA [XM_001474080]	-0.43	0.001	0.046	-0.24	0.044	0.513

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Gm9790	NM_001112668	ref Mus musculus predicted gene 9790 (Gm9790), mRNA [NM_001112668]	-0.46	0.001	0.046	-0.36	0.005	0.346
chr15:8463685-8494960_R	chr15:8463685-8494960_R	lincRNA:chr15:8463685-8494960 reverse strand	-0.46	0.001	0.046	-0.39	0.005	0.354
LOC676549	XR_033889	ref PREDICTED: Mus musculus similar to Siva-2 (LOC676549), misc RNA [XR_033889]	-0.42	0.001	0.047	-0.45	0.004	0.323
Sgsh	NM_018822	ref Mus musculus N-sulfoglucosamine sulfohydrolase (sulfamidase) (Sgsh), mRNA [NM_018822]	-0.47	0.001	0.048	-0.26	0.030	0.478
Neur1a	NM_021360	ref Mus musculus neuralized homolog 1A (Drosophila) (Neur1a), transcript variant 1, mRNA [NM_021360]	-0.54	0.001	0.049	-0.42	0.006	0.369
Obfc2a	NM_028696	ref Mus musculus oligonucleotide/oligosaccharide-binding fold containing 2A (Obfc2a), mRNA [NM_028696]	-0.52	0.001	0.049	-0.67	0.002	0.270
Fam78a	NM_175511	ref Mus musculus family with sequence similarity 78, member A (Fam78a), mRNA [NM_175511]	-1.54	0.001	0.049	-1.44	0.009	0.397
Klk8	NM_008940	ref Mus musculus kallikrein related-peptidase 8 (Klk8), mRNA [NM_008940]	-0.47	0.001	0.051	-0.57	0.013	0.412
Fam110a	NM_028666	ref Mus musculus family with sequence similarity 110, member A (Fam110a), transcript variant 1, mRNA [NM_028666]	-0.52	0.001	0.051	-0.52	0.005	0.346
chr10:39666719-39679959_R	chr10:39666719-39679959_R	lincRNA:chr10:39666719-39679959 reverse strand	-0.59	0.001	0.051	-0.91	0.013	0.412
Tnfaip8	NM_134131	ref Mus musculus tumor necrosis factor, alpha-induced protein 8 (Tnfaip8), transcript variant 1, mRNA [NM_134131]	-0.66	0.001	0.052	-0.63	0.000	0.117
Nubpl	NM_029760	ref Mus musculus nucleotide binding protein-like (Nubpl), mRNA [NM_029760]	-0.44	0.001	0.052	-0.40	0.013	0.412
Cars2	NM_024248	ref Mus musculus cysteinyl-tRNA synthetase 2 (mitochondrial)(putative) (Cars2), nuclear gene encoding mitochondrial protein, mRNA [NM_024248]	-0.41	0.001	0.052	-0.45	0.005	0.352
Jarid2	NM_021878	ref Mus musculus jumonji, AT rich interactive domain 2 (Jarid2), mRNA [NM_021878]	-0.43	0.001	0.053	-0.29	0.016	0.428

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Tmem218	NM_025464	ref Mus musculus transmembrane protein 218 (Tmem218), mRNA [NM_025464]	-0.43	0.001	0.053	-0.30	0.021	0.447
Mest	NM_008590	ref Mus musculus mesoderm specific transcript (Mest), mRNA [NM_008590]	-0.97	0.001	0.054	-1.13	0.024	0.458
Fn3k	NM_022014	ref Mus musculus fructosamine 3 kinase (Fn3k), transcript variant 1, mRNA [NM_022014]	-0.45	0.001	0.054	-0.36	0.041	0.505
Lrba	NM_030695	ref Mus musculus LPS-responsive beige-like anchor (Lrba), transcript variant 1, mRNA [NM_030695]	-0.36	0.001	0.054	-0.35	0.011	0.406
Fgfr1op	NM_201230	ref Mus musculus Fgfr1 oncogene partner (Fgfr1op), mRNA [NM_201230]	-0.48	0.001	0.054	-0.40	0.008	0.390
Rnf208	NM_176834	ref Mus musculus ring finger protein 208 (Rnf208), mRNA [NM_176834]	-1.09	0.001	0.054	-0.94	0.000	0.160
Osgepl1	NM_028091	ref Mus musculus O-sialoglycoprotein endopeptidase-like 1 (Osgepl1), mRNA [NM_028091]	-0.43	0.001	0.054	-0.23	0.032	0.483
Klra8	NM_010650	ref Mus musculus killer cell lectin-like receptor, subfamily A, member 8 (Klra8), transcript variant 2, mRNA [NM_010650]	-1.25	0.001	0.055	-1.17	0.002	0.278
LOC100045975	XR_032163	ref PREDICTED: Mus musculus similar to high mobility group nucleosomal binding domain 2 (LOC100045975), misc RNA [XR_032163]	-0.40	0.001	0.055	-0.53	0.024	0.459
Tmem25	NM_027865	ref Mus musculus transmembrane protein 25 (Tmem25), mRNA [NM_027865]	-1.02	0.001	0.055	-0.82	0.012	0.412
Fitm1	NM_026808	ref Mus musculus fat storage-inducing transmembrane protein 1 (Fitm1), mRNA [NM_026808]	-0.54	0.001	0.055	-0.29	0.012	0.411
9330177L23Rik	AK020385	gb Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched library, clone:9330177L23 product:unclassifiable, full insert sequence. [AK020385]	-0.54	0.001	0.056	-0.34	0.030	0.480
Cited4	NM_019563	ref Mus musculus Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4 (Cited4), mRNA [NM_019563]	-0.60	0.001	0.056	-0.56	0.032	0.485

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Cdc14b	NM_172587	ref Mus musculus CDC14 cell division cycle 14 homolog B (S. cerevisiae) (Cdc14b), transcript variant 1, mRNA [NM_172587]	-0.84	0.001	0.056	-0.73	0.003	0.281
Gsk3b	NM_019827	ref Mus musculus glycogen synthase kinase 3 beta (Gsk3b), mRNA [NM_019827]	-0.43	0.001	0.057	-0.35	0.004	0.316
Tmem126a	NM_025460	ref Mus musculus transmembrane protein 126A (Tmem126a), mRNA [NM_025460]	-0.40	0.001	0.057	-0.33	0.009	0.398
Sned1	ENSMUST00000062202	ens sushi, nidogen and EGF-like domains 1 Gene [Source:MGI Symbol;Acc:MGI:3045960] [ENSMUST00000062202]	-0.45	0.001	0.058	-0.30	0.023	0.453
Morn4	NM_198108	ref Mus musculus MORN repeat containing 4 (Morn4), mRNA [NM_198108]	-0.56	0.001	0.058	-0.52	0.015	0.418
Ddit4l	NM_030143	ref Mus musculus DNA-damage-inducible transcript 4-like (Ddit4l), mRNA [NM_030143]	-0.56	0.001	0.058	-0.32	0.033	0.487
chr10:62267317-62269871_R	chr10:62267317-62269871_R	lincRNA:chr10:62267317-62269871 reverse strand	-1.29	0.001	0.058	-1.26	0.007	0.383
Pm20d1	NM_178079	ref Mus musculus peptidase M20 domain containing 1 (Pm20d1), mRNA [NM_178079]	-0.41	0.001	0.058	-0.27	0.022	0.451
Dock5	NM_177780	ref Mus musculus dedicator of cytokinesis 5 (Dock5), mRNA [NM_177780]	-0.81	0.001	0.059	-0.43	0.014	0.414
Mrpl46	NM_023331	ref Mus musculus mitochondrial ribosomal protein L46 (Mrpl46), nuclear gene encoding mitochondrial protein, mRNA [NM_023331]	-0.40	0.001	0.059	-0.33	0.003	0.281
Bcs1l	NM_025784	ref Mus musculus BCS1-like (yeast) (Bcs1l), nuclear gene encoding mitochondrial protein, mRNA [NM_025784]	-0.37	0.001	0.059	-0.37	0.021	0.449
Grhl2	NM_026496	ref Mus musculus grainyhead-like 2 (Drosophila) (Grhl2), mRNA [NM_026496]	-0.91	0.001	0.059	-0.69	0.006	0.369
Dhodh	NM_020046	ref Mus musculus dihydroorotate dehydrogenase (Dhodh), nuclear gene encoding mitochondrial protein, mRNA [NM_020046]	-0.46	0.001	0.059	-0.33	0.015	0.419

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Cox11	NM_199008	ref Mus musculus COX11 homolog, cytochrome c oxidase assembly protein (yeast) (Cox11), nuclear gene encoding mitochondrial protein, mRNA [NM_199008]	-0.37	0.001	0.060	-0.48	0.009	0.399
Lysmd4	NM_175215	ref Mus musculus LysM, putative peptidoglycan-binding, domain containing 4 (Lysmd4), mRNA [NM_175215]	-0.47	0.001	0.060	-0.38	0.019	0.437
LOC100048157	XM_001479656	ref PREDICTED: Mus musculus hypothetical protein LOC100048157 (LOC100048157), mRNA [XM_001479656]	-0.62	0.001	0.060	-0.56	0.002	0.264
Akr1b10	NM_172398	ref Mus musculus aldo-keto reductase family 1, member B10 (aldose reductase) (Akr1b10), mRNA [NM_172398]	-0.35	0.001	0.060	-0.41	0.002	0.275
Ajap1	NM_001099299	ref Mus musculus adherens junction associated protein 1 (Ajap1), mRNA [NM_001099299]	-0.80	0.001	0.060	-0.87	0.002	0.257
Dcakd	NM_026551	ref Mus musculus dephospho-CoA kinase domain containing (Dcakd), mRNA [NM_026551]	-0.87	0.001	0.060	-0.76	0.005	0.349
Entpd4	NM_026174	ref Mus musculus ectonucleoside triphosphate diphosphohydrolase 4 (Entpd4), mRNA [NM_026174]	-0.34	0.001	0.061	-0.29	0.012	0.410
Rom1	NM_009073	ref Mus musculus rod outer segment membrane protein 1 (Rom1), mRNA [NM_009073]	-0.58	0.001	0.061	-0.35	0.015	0.420
0610009O20Rik	NM_024179	ref Mus musculus RIKEN cDNA 0610009O20 gene (0610009O20Rik), mRNA [NM_024179]	-0.50	0.001	0.061	-0.36	0.027	0.471
Sorl1	ENSMUST00000060989	ens sortilin-related receptor, LDLR class A repeats-containing Gene [Source:MGI (curated);Acc:MGI:1202296] [ENSMUST00000060989]	-0.42	0.001	0.061	-0.30	0.026	0.470
As3mt	NM_020577	ref Mus musculus arsenic (+3 oxidation state) methyltransferase (As3mt), mRNA [NM_020577]	-0.41	0.001	0.062	-0.31	0.023	0.453
chr1:38886199-38892924_R	chr1:38886199-38892924_R	lincRNA:chr1:38886199-38892924 reverse strand	-0.49	0.001	0.063	-0.35	0.009	0.400
Stxbp4	NM_011505	ref Mus musculus syntaxin binding protein 4 (Stxbp4), mRNA [NM_011505]	-0.65	0.001	0.063	-0.67	0.000	0.121
Asb2	NM_023049	ref Mus musculus ankyrin repeat and SOCS box-containing 2 (Asb2), mRNA [NM_023049]	-0.42	0.001	0.063	-0.34	0.026	0.469
Tln2	NM_001081242	ref Mus musculus talin 2 (Tln2), mRNA [NM_001081242]	-0.36	0.001	0.063	-0.31	0.029	0.477

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
6330416G13Rik	NM_144905	ref Mus musculus RIKEN cDNA 6330416G13 gene (6330416G13Rik), mRNA [NM_144905]	-0.42	0.001	0.063	-0.21	0.038	0.499
chr10:62267317-62269871_R	chr10:62267317-62269871_R	lincRNA:chr10:62267317-62269871 reverse strand	-1.33	0.001	0.063	-1.26	0.014	0.412
ENSMUST00000120674	ENSMUST00000120674	ens myc induced nuclear antigen Gene [Source:MGI (curated);Acc:MGI:1914264] [ENSMUST00000120674]	-0.77	0.001	0.063	-0.61	0.045	0.513
ENSMUST00000097419	ENSMUST00000097419	ens Fgfr1 oncogene partner Gene [Source:MGI Symbol;Acc:MGI:1922546] [ENSMUST00000097419]	-0.49	0.001	0.064	-0.34	0.023	0.454
ENSMUST00000047020	ENSMUST00000047020	ens RIKEN cDNA A930016O22 gene Gene [Source:MGI Symbol;Acc:MGI:3605623] [ENSMUST00000047020]	-0.42	0.001	0.064	-0.38	0.014	0.414
Lin7b	NM_011698	ref Mus musculus lin-7 homolog B (C. elegans) (Lin7b), mRNA [NM_011698]	-1.02	0.001	0.065	-0.74	0.003	0.290
Ky	NM_024291	ref Mus musculus kyphoscoliosis peptidase (Ky), mRNA [NM_024291]	-1.53	0.001	0.065	-1.56	0.007	0.384
Tmem126b	NM_026734	ref Mus musculus transmembrane protein 126B (Tmem126b), mRNA [NM_026734]	-0.39	0.001	0.065	-0.23	0.049	0.519
Zcchc10	NM_026479	ref Mus musculus zinc finger, CCHC domain containing 10 (Zcchc10), mRNA [NM_026479]	-0.74	0.001	0.066	-0.62	0.030	0.477
Ccbl1	NM_172404	ref Mus musculus cysteine conjugate-beta lyase 1 (Ccbl1), mRNA [NM_172404]	-0.39	0.001	0.067	-0.32	0.009	0.394
Rs1	NM_011302	ref Mus musculus retinoschisis (X-linked, juvenile) 1 (human) (Rs1), mRNA [NM_011302]	-0.66	0.001	0.067	-0.54	0.006	0.356
2310061I04Rik	NM_001033630	ref Mus musculus RIKEN cDNA 2310061I04 gene (2310061I04Rik), mRNA [NM_001033630]	-0.36	0.001	0.067	-0.26	0.015	0.418
BC017612	NM_133214	ref Mus musculus cDNA sequence BC017612 (BC017612), mRNA [NM_133214]	-0.65	0.001	0.068	-0.73	0.009	0.400
Ppbbp	NM_023785	ref Mus musculus pro-platelet basic protein (Ppbbp), mRNA [NM_023785]	-0.90	0.001	0.068	-0.82	0.015	0.418
chr10:39666719-39679959_R	chr10:39666719-39679959_R	lincRNA:chr10:39666719-39679959 reverse strand	-0.59	0.001	0.068	-0.85	0.026	0.467
Mapk10	NM_009158	ref Mus musculus mitogen-activated protein kinase 10 (Mapk10), transcript variant 1, mRNA [NM_009158]	-0.45	0.001	0.068	-0.30	0.036	0.495

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Oas1d	NM_133893	ref Mus musculus 2'-5' oligoadenylate synthetase 1D (Oas1d), mRNA [NM_133893]	-0.38	0.001	0.069	-0.34	0.014	0.414
Synpo2	NM_080451	ref Mus musculus synaptopodin 2 (Synpo2), mRNA [NM_080451]	-0.41	0.001	0.070	-0.35	0.010	0.403
LOC100047308	XM_001477861	ref PREDICTED: Mus musculus hypothetical protein LOC100047308 (LOC100047308), mRNA [XM_001477861]	-0.46	0.001	0.070	-0.62	0.002	0.272
D630042P16Rik	NM_175525	ref Mus musculus RIKEN cDNA D630042P16 gene (D630042P16Rik), mRNA [NM_175525]	-0.45	0.001	0.070	-0.59	0.006	0.361
Slamf1	NM_013730	ref Mus musculus signaling lymphocytic activation molecule family member 1 (Slamf1), mRNA [NM_013730]	-0.55	0.001	0.070	-0.39	0.004	0.324
Caprin1	NM_016739	ref Mus musculus cell cycle associated protein 1 (Caprin1), transcript variant 1, mRNA [NM_016739]	-0.47	0.001	0.070	-0.52	0.017	0.435
Pcnxl2	NM_175561	ref Mus musculus pecanex-like 2 (Drosophila) (Pcnxl2), transcript variant 2, mRNA [NM_175561]	-0.80	0.001	0.071	-0.59	0.007	0.370
Taf9	NM_001015889	ref Mus musculus TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor (Taf9), transcript variant 3, mRNA [NM_001015889]	-0.33	0.001	0.071	-0.28	0.022	0.452
LOC100048780	XM_001481225	ref PREDICTED: Mus musculus similar to MRC OX-2 antigen homolog (LOC100048780), mRNA [XM_001481225]	-0.48	0.001	0.071	-0.61	0.021	0.448
Letm1	NM_019694	ref Mus musculus leucine zipper-EF-hand containing transmembrane protein 1 (Letm1), nuclear gene encoding mitochondrial protein, mRNA [NM_019694]	-0.41	0.001	0.072	-0.32	0.005	0.350
Abhd5	NM_026179	ref Mus musculus abhydrolase domain containing 5 (Abhd5), mRNA [NM_026179]	-0.40	0.001	0.072	-0.30	0.006	0.369
Ntsr2	NM_008747	ref Mus musculus neurotensin receptor 2 (Ntsr2), mRNA [NM_008747]	-0.52	0.001	0.072	-0.62	0.005	0.343
Gm6416	XM_001475967	ref PREDICTED: Mus musculus hypothetical protein LOC623312 (LOC623312), mRNA [XM_001475967]	-0.84	0.001	0.072	-0.75	0.004	0.312
Lca5l	NM_001001492	ref Mus musculus Leber congenital amaurosis 5-like (Lca5l), mRNA [NM_001001492]	-0.53	0.001	0.073	-0.36	0.009	0.394

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Bcl11b	NM_021399	ref Mus musculus B-cell leukemia/lymphoma 11B (Bcl11b), transcript variant 2, mRNA [NM_021399]	-1.24	0.001	0.073	-1.16	0.008	0.393
2010007E15Rik	XM_001478752	ref PREDICTED: Mus musculus RIKEN cDNA 2010007E15 gene (2010007E15Rik), mRNA [XM_001478752]	-0.57	0.001	0.073	-0.67	0.013	0.412
Tfb1m	NM_146074	ref Mus musculus transcription factor B1, mitochondrial (Tfb1m), nuclear gene encoding mitochondrial protein, mRNA [NM_146074]	-0.48	0.001	0.074	-0.51	0.025	0.466
Pdxk	NM_172134	ref Mus musculus pyridoxal (pyridoxine, vitamin B6) kinase (Pdxk), mRNA [NM_172134]	-0.39	0.001	0.074	-0.27	0.046	0.513
Igdcc4	NM_020043	ref Mus musculus immunoglobulin superfamily, DCC subclass, member 4 (Igdcc4), mRNA [NM_020043]	-0.49	0.001	0.074	-0.54	0.035	0.495
Pdss1	NM_019501	ref Mus musculus prenyl (solanesyl) diphosphate synthase, subunit 1 (Pdss1), mRNA [NM_019501]	-0.54	0.001	0.076	-0.41	0.009	0.398
A730020M07Rik	XR_035398	ref PREDICTED: Mus musculus RIKEN cDNA A730020M07 gene (A730020M07Rik), misc RNA [XR_035398]	-0.39	0.001	0.076	-0.24	0.048	0.516
Kcnn2	NM_080465	ref Mus musculus potassium intermediate/small conductance calcium-activated channel, subfamily N, member 2 (Kcnn2), mRNA [NM_080465]	-1.03	0.001	0.076	-0.61	0.007	0.377
Gm13675	XR_032818	ref PREDICTED: Mus musculus similar to mitochondrial ribosomal protein L18 (LOC433550), misc RNA [XR_032818]	-0.44	0.001	0.077	-0.45	0.005	0.354
Gm15770	XR_034208	ref PREDICTED: Mus musculus similar to mitochondrial ribosomal protein L12 (LOC677204), misc RNA [XR_034208]	-0.36	0.001	0.077	-0.28	0.009	0.398
Ppil1	NM_026845	ref Mus musculus peptidylprolyl isomerase (cyclophilin)-like 1 (Ppil1), mRNA [NM_026845]	-0.82	0.001	0.077	-0.68	0.002	0.279
Gm12337	XR_034801	ref PREDICTED: Mus musculus similar to ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit c (LOC100043447), misc RNA [XR_034801]	-0.40	0.001	0.077	-0.28	0.013	0.412
chr4:132641388-132645061_F	chr4:132641388-132645061_F	lincRNA:chr4:132641388-132645061 forward strand	-0.58	0.001	0.077	-0.51	0.004	0.318

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Recql5	NM_130454	ref Mus musculus RecQ protein-like 5 (Recql5), mRNA [NM_130454]	-0.68	0.001	0.078	-0.36	0.004	0.308
Ano4	NM_178773	ref Mus musculus anoctamin 4 (Ano4), mRNA [NM_178773]	-1.22	0.001	0.078	-1.07	0.000	0.090
Oscp1	NM_172701	ref Mus musculus organic solute carrier partner 1 (Oscp1), mRNA [NM_172701]	-0.45	0.001	0.079	-0.39	0.001	0.227
Obsl1	NM_178884	ref Mus musculus obscurin-like 1 (Obsl1), mRNA [NM_178884]	-0.32	0.001	0.080	-0.26	0.041	0.505
Triap1	NM_026933	ref Mus musculus TP53 regulated inhibitor of apoptosis 1 (Triap1), mRNA [NM_026933]	-0.36	0.001	0.080	-0.26	0.022	0.452
A2bp1	NM_021477	ref Mus musculus ataxin 2 binding protein 1 (A2bp1), transcript variant 2, mRNA [NM_021477]	-0.66	0.001	0.080	-0.41	0.042	0.508
Eepd1	NM_026189	ref Mus musculus endonuclease/exonuclease/phosphatase family domain containing 1 (Eepd1), mRNA [NM_026189]	-1.07	0.001	0.080	-0.65	0.017	0.430
Med29	NM_026042	ref Mus musculus mediator complex subunit 29 (Med29), mRNA [NM_026042]	-0.37	0.001	0.080	-0.34	0.012	0.410
Fam19a3	NM_183224	ref Mus musculus family with sequence similarity 19, member A3 (Fam19a3), mRNA [NM_183224]	-0.95	0.002	0.081	-1.01	0.016	0.426
E030010N08Rik	ENSMUST00000138595	ref PREDICTED: Mus musculus RIKEN cDNA E030010N08 gene (E030010N08Rik), mRNA [XM_001474855]	-0.85	0.002	0.081	-0.60	0.013	0.412
Thyn1	NM_144543	ref Mus musculus thymocyte nuclear protein 1 (Thyn1), mRNA [NM_144543]	-0.38	0.002	0.081	-0.41	0.012	0.410
Alkbh7	NM_025538	ref Mus musculus alkB, alkylation repair homolog 7 (E. coli) (Alkbh7), mRNA [NM_025538]	-0.50	0.002	0.082	-0.44	0.003	0.290
Ssbp1	NM_212468	ref Mus musculus single-stranded DNA binding protein 1 (Ssbp1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_212468]	-0.36	0.002	0.083	-0.35	0.021	0.447
Plxnd1	NM_026376	ref Mus musculus plexin D1 (Plxnd1), mRNA [NM_026376]	-0.69	0.002	0.084	-0.54	0.011	0.406
Gpr88	NM_022427	ref Mus musculus G-protein coupled receptor 88 (Gpr88), mRNA [NM_022427]	-0.51	0.002	0.084	-0.60	0.002	0.281

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
ApIn	NM_013912	ref Mus musculus apelin (ApIn), mRNA [NM_013912]	-1.36	0.002	0.085	-1.84	0.008	0.391
Enho	NM_027147	ref Mus musculus energy homeostasis associated (Enho), mRNA [NM_027147]	-0.41	0.002	0.085	-0.51	0.013	0.412
Osta	NM_145932	ref Mus musculus organic solute transporter alpha (Osta), mRNA [NM_145932]	-0.82	0.002	0.085	-0.53	0.013	0.412
Nme4	NM_019731	ref Mus musculus non-metastatic cells 4, protein expressed in (Nme4), nuclear gene encoding mitochondrial protein, mRNA [NM_019731]	-0.50	0.002	0.085	-0.77	0.023	0.456
BC028528	NM_153513	ref Mus musculus cDNA sequence BC028528 (BC028528), mRNA [NM_153513]	-0.63	0.002	0.085	-0.63	0.012	0.410
chr17:24157887-24158104_R	chr17:24157887-24158104_R	lincRNA:chr17:24157887-24158104 reverse strand	-0.70	0.002	0.085	-0.64	0.015	0.423
Ufsp1	NM_027356	ref Mus musculus UFM1-specific peptidase 1 (Ufsp1), mRNA [NM_027356]	-0.35	0.002	0.085	-0.42	0.005	0.353
C630004L07Rik	AK049864	gb Mus musculus adult male hippocampus cDNA, RIKEN full-length enriched library, clone:C630004L07 product:hypothetical protein, full insert sequence. [AK049864]	-0.50	0.002	0.085	-0.60	0.002	0.279
BC048943	NM_001127685	ref Mus musculus cDNA sequence BC048943 (BC048943), mRNA [NM_001127685]	-1.03	0.002	0.086	-1.10	0.006	0.369
ENSMUST00000085998	ENSMUST00000085998	ens zinc finger protein 428 Gene [Source:MGI Symbol;Acc:MGI:1916463] [ENSMUST00000085998]	-0.48	0.002	0.086	-0.47	0.002	0.262
Pmvk	NM_026784	ref Mus musculus phosphomevalonate kinase (Pmvk), transcript variant 1, mRNA [NM_026784]	-0.34	0.002	0.086	-0.28	0.013	0.412
Rwdd4a	NM_203507	ref Mus musculus RWD domain containing 4A (Rwdd4a), mRNA [NM_203507]	-0.48	0.002	0.086	-0.60	0.007	0.377
Lactb	NM_030717	ref Mus musculus lactamase, beta (Lactb), nuclear gene encoding mitochondrial protein, mRNA [NM_030717]	-0.36	0.002	0.086	-0.35	0.008	0.391
2900009J06Rik	AA986756	gb uc73h09.x1 Sugano mouse liver mlia Mus musculus cDNA clone IMAGE:1431329 3'. [AA986756]	-0.69	0.002	0.086	-0.62	0.001	0.186

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Klra27	XM_916590	ref PREDICTED: Mus musculus killer cell lectin-like receptor, subfamily A, member 27 (Klra27), mRNA [XM_916590]	-0.74	0.002	0.086	-0.71	0.006	0.366
Ndutf4	NM_026742	ref Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 4 (Ndutf4), nuclear gene encoding mitochondrial protein, mRNA [NM_026742]	-0.52	0.002	0.086	-0.35	0.016	0.426
Mrpl43	NM_053164	ref Mus musculus mitochondrial ribosomal protein L43 (Mrpl43), nuclear gene encoding mitochondrial protein, mRNA [NM_053164]	-0.35	0.002	0.086	-0.23	0.048	0.516
Tmem41b	NM_153525	ref Mus musculus transmembrane protein 41B (Tmem41b), mRNA [NM_153525]	-0.46	0.002	0.086	-0.43	0.014	0.418
Sept3	NM_011889	ref Mus musculus septin 3 (Sept3), mRNA [NM_011889]	-0.69	0.002	0.086	-0.45	0.026	0.468
Ntf3	NM_001164034	ref Mus musculus neurotrophin 3 (Ntf3), transcript variant 1, mRNA [NM_001164034]	-0.52	0.002	0.086	-0.43	0.005	0.355
Akr1b10	NM_172398	ref Mus musculus aldo-keto reductase family 1, member B10 (aldose reductase) (Akr1b10), mRNA [NM_172398]	-0.34	0.002	0.087	-0.34	0.005	0.346
4930455C21Rik	BC002243	gb Mus musculus RIKEN cDNA 4930455C21 gene, mRNA (cDNA clone MGC:7537 IMAGE:3492342), complete cds. [BC002243]	-0.38	0.002	0.087	-0.27	0.026	0.470
Taco1	NM_027346	ref Mus musculus translational activator of mitochondrially encoded cytochrome c oxidase I (Taco1), nuclear gene encoding mitochondrial protein, mRNA [NM_027346]	-0.52	0.002	0.088	-0.46	0.006	0.369
LOC100047915	XM_001479122	ref PREDICTED: Mus musculus similar to Memo1 protein (LOC100047915), mRNA [XM_001479122]	-0.62	0.002	0.089	-0.66	0.005	0.355
Mgmt	NM_008598	ref Mus musculus O-6-methylguanine-DNA methyltransferase (Mgmt), mRNA [NM_008598]	-0.50	0.002	0.089	-0.62	0.008	0.391
Nudt1	NM_008637	ref Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 1 (Nudt1), mRNA [NM_008637]	-0.43	0.002	0.089	-0.47	0.012	0.410
Apol10b	NM_177820	ref Mus musculus apolipoprotein L 10b (Apol10b), mRNA [NM_177820]	-1.03	0.002	0.089	-0.99	0.024	0.459

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Foxo6	NM_194060	ref Mus musculus forkhead box O6 (Foxo6), mRNA [NM_194060]	-0.59	0.002	0.089	-0.57	0.009	0.400
Nt5m	NM_134029	ref Mus musculus 5',3'-nucleotidase, mitochondrial (Nt5m), nuclear gene encoding mitochondrial protein, mRNA [NM_134029]	-0.33	0.002	0.090	-0.22	0.030	0.480
Akap5	NM_001101471	ref Mus musculus A kinase (PRKA) anchor protein 5 (Akap5), mRNA [NM_001101471]	-1.75	0.002	0.091	-1.73	0.009	0.393
Itgb6	NM_021359	ref Mus musculus integrin beta 6 (Itgb6), transcript variant 2, mRNA [NM_021359]	-1.95	0.002	0.091	-2.01	0.016	0.425
Hist1h2bm	NM_178200	ref Mus musculus histone cluster 1, H2bm (Hist1h2bm), mRNA [NM_178200]	-0.45	0.002	0.091	-0.27	0.019	0.440
Leo1	NM_001039522	ref Mus musculus Leo1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae) (Leo1), mRNA [NM_001039522]	-0.38	0.002	0.091	-0.36	0.024	0.458
LOC677553	XR_005086	ref PREDICTED: Mus musculus hypothetical LOC677553 (LOC677553), misc RNA [XR_005086]	-0.35	0.002	0.091	-0.22	0.036	0.495
Rasa4	NM_133914	ref Mus musculus RAS p21 protein activator 4 (Rasa4), transcript variant 1, mRNA [NM_133914]	-0.67	0.002	0.091	-0.66	0.001	0.202
Gpt	NM_182805	ref Mus musculus glutamic pyruvic transaminase, soluble (Gpt), mRNA [NM_182805]	-0.69	0.002	0.091	-0.74	0.000	0.048
Ptcd3	NM_027275	ref Mus musculus pentatricopeptide repeat domain 3 (Ptcd3), nuclear gene encoding mitochondrial protein, mRNA [NM_027275]	-0.44	0.002	0.091	-0.41	0.010	0.405
Flad1	NM_177041	ref Mus musculus RFad1, flavin adenine dinucleotide synthetase, homolog (yeast) (Flad1), mRNA [NM_177041]	-0.39	0.002	0.091	-0.37	0.007	0.370
Tm7sf2	NM_028454	ref Mus musculus transmembrane 7 superfamily member 2 (Tm7sf2), mRNA [NM_028454]	-0.40	0.002	0.091	-0.52	0.001	0.202
Dcaf4	NM_030246	ref Mus musculus DDB1 and CUL4 associated factor 4 (Dcaf4), transcript variant 2, mRNA [NM_030246]	-0.55	0.002	0.091	-0.59	0.027	0.471
Caprin1	NM_001111291	ref Mus musculus cell cycle associated protein 1 (Caprin1), transcript variant 4, mRNA [NM_001111291]	-0.52	0.002	0.092	-0.40	0.006	0.369

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Txn2	NM_019913	ref[Mus musculus thioredoxin 2 (Txn2), nuclear gene encoding mitochondrial protein, mRNA [NM_019913]	-0.35	0.002	0.092	-0.34	0.006	0.356
chr13:15947521-15999246 F	chr13:15947521-15999246 F	lincRNA:chr13:15947521-15999246 forward strand	-0.47	0.002	0.092	-0.61	0.001	0.203
Scly	NM_016717	ref[Mus musculus selenocysteine lyase (Scly), mRNA [NM_016717]	-0.39	0.002	0.092	-0.50	0.003	0.281
Mmp13	NM_008607	ref[Mus musculus matrix metalloproteinase 13 (Mmp13), mRNA [NM_008607]	-1.32	0.002	0.093	-0.99	0.004	0.308
Rgs7bp	NM_029879	ref[Mus musculus regulator of G-protein signalling 7 binding protein (Rgs7bp), mRNA [NM_029879]	-0.78	0.002	0.093	-0.61	0.003	0.281
Tmem22	NM_001101483	ref[Mus musculus transmembrane protein 22 (Tmem22), mRNA [NM_001101483]	-0.95	0.002	0.093	-0.69	0.023	0.453
Rhot2	NM_145999	ref[Mus musculus ras homolog gene family, member T2 (Rhot2), nuclear gene encoding mitochondrial protein, mRNA [NM_145999]	-0.40	0.002	0.093	-0.33	0.004	0.330
Fam69b	NM_019833	ref[Mus musculus family with sequence similarity 69, member B (Fam69b), mRNA [NM_019833]	-0.68	0.002	0.093	-0.50	0.015	0.420
Asb10	NM_080444	ref[Mus musculus ankyrin repeat and SOCS box-containing 10 (Asb10), mRNA [NM_080444]	-0.53	0.002	0.093	-0.55	0.011	0.407
AI464131	NM_001085515	ref[Mus musculus expressed sequence AI464131 (AI464131), mRNA [NM_001085515]	-0.41	0.002	0.094	-0.24	0.038	0.499
Rfx3	NM_011265	ref[Mus musculus regulatory factor X, 3 (influences HLA class II expression) (Rfx3), transcript variant 1, mRNA [NM_011265]	-0.41	0.002	0.094	-0.42	0.017	0.429
6030429G01Rik	NM_001033548	ref[Mus musculus RIKEN cDNA 6030429G01 gene (6030429G01Rik), mRNA [NM_001033548]	-0.67	0.002	0.094	-0.62	0.044	0.512
Prosapip1	NM_197945	ref[Mus musculus ProSAPIp1 protein (Prosapip1), mRNA [NM_197945]	-0.85	0.002	0.094	-0.60	0.019	0.439
Krt222	NM_172946	ref[Mus musculus keratin 222 (Krt222), mRNA [NM_172946]	-1.01	0.002	0.095	-0.92	0.001	0.199
Lynx1	NM_011838	ref[Mus musculus Ly6/neurotoxin 1 (Lynx1), mRNA [NM_011838]	-0.59	0.002	0.095	-0.38	0.032	0.484

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
AI415730	AK138764	gb Mus musculus 0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A430056F21 product:unclassifiable, full insert sequence. [AK138764]	-0.66	0.002	0.096	-0.55	0.022	0.451
AU023871	NM_001033221	ref Mus musculus expressed sequence AU023871 (AU023871), mRNA [NM_001033221]	-0.51	0.002	0.096	-0.34	0.006	0.366
Cntfr	NM_001136056	ref Mus musculus ciliary neurotrophic factor receptor (Cntfr), transcript variant 2, mRNA [NM_001136056]	-0.54	0.002	0.096	-0.53	0.004	0.336
2610029I01Rik	NM_029840	ref Mus musculus RIKEN cDNA 2610029I01 gene (2610029I01Rik), mRNA [NM_029840]	-0.41	0.002	0.096	-0.31	0.017	0.432
Lrtm1	NM_176920	ref Mus musculus leucine-rich repeats and transmembrane domains 1 (Lrtm1), mRNA [NM_176920]	-1.51	0.002	0.096	-0.73	0.024	0.463
Gm7781	XR_030654	ref PREDICTED: Mus musculus similar to prohibitin (LOC665773), misc RNA [XR_030654]	-0.32	0.002	0.096	-0.22	0.020	0.447
Esrrg	NM_011935	ref Mus musculus estrogen-related receptor gamma (Esrrg), mRNA [NM_011935]	-0.40	0.002	0.096	-0.22	0.043	0.510
Tarsl2	NM_172310	ref Mus musculus threonyl-tRNA synthetase-like 2 (Tarsl2), mRNA [NM_172310]	-0.37	0.002	0.097	-0.29	0.010	0.403
Gdpd5	NM_201352	ref Mus musculus glycerophosphodiester phosphodiesterase domain containing 5 (Gdpd5), mRNA [NM_201352]	-0.59	0.002	0.097	-0.43	0.016	0.426
1810020D17Rik	NM_001177945	ref Mus musculus RIKEN cDNA 1810020D17 gene (1810020D17Rik), transcript variant 1, mRNA [NM_001177945]	-0.34	0.002	0.098	-0.27	0.040	0.504
Suv420h2	NM_146177	ref Mus musculus suppressor of variegation 4-20 homolog 2 (Drosophila) (Suv420h2), transcript variant 1, mRNA [NM_146177]	-0.33	0.002	0.099	-0.42	0.014	0.418
Lgi1	NM_020278	ref Mus musculus leucine-rich repeat LGI family, member 1 (Lgi1), mRNA [NM_020278]	-0.93	0.002	0.099	-0.77	0.002	0.281
chr6:11994002-11997859_F	chr6:11994002-11997859_F	lincRNA:chr6:11994002-11997859 forward strand	-0.43	0.002	0.099	-0.36	0.009	0.394

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
St6galnac1	NM_011371	ref Mus musculus ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 1 (St6galnac1), mRNA [NM_011371]	-0.98	0.002	0.099	-0.59	0.038	0.499
Mmp15	NM_008609	ref Mus musculus matrix metalloproteinase 15 (Mmp15), mRNA [NM_008609]	-0.77	0.002	0.099	-0.56	0.008	0.391
Gm2651	XR_031747	ref PREDICTED: Mus musculus similar to COX11 homolog, cytochrome c oxidase assembly protein (yeast) (LOC100040185), misc RNA [XR_031747]	-0.38	0.002	0.099	-0.31	0.008	0.391
chr14:77511189-77522852_F	chr14:77511189-77522852_F	lincRNA:chr14:77511189-77522852 forward strand	-0.58	0.002	0.099	-0.45	0.001	0.197
Camk2b	NM_001174053	ref Mus musculus calcium/calmodulin-dependent protein kinase II, beta (Camk2b), transcript variant 1, mRNA [NM_001174053]	-0.56	0.002	0.099	-0.35	0.030	0.477
Lrrc27	NM_027164	ref Mus musculus leucine rich repeat containing 27 (Lrrc27), transcript variant 1, mRNA [NM_027164]	-0.55	0.002	0.099	-0.56	0.015	0.418
S1pr5	NM_053190	ref Mus musculus sphingosine-1-phosphate receptor 5 (S1pr5), mRNA [NM_053190]	-1.11	0.002	0.100	-0.70	0.011	0.407
Gsta4	NM_010357	ref Mus musculus glutathione S-transferase, alpha 4 (Gsta4), mRNA [NM_010357]	-0.38	0.002	0.100	-0.26	0.014	0.418
Dmpk	NM_032418	ref Mus musculus dystrophin myotonic-protein kinase (Dmpk), transcript variant 1, mRNA [NM_032418]	-0.35	0.002	0.100	-0.21	0.029	0.477
Six5	NM_011383	ref Mus musculus sine oculis-related homeobox 5 homolog (Drosophila) (Six5), mRNA [NM_011383]	-0.45	0.002	0.100	-0.33	0.050	0.520
Deb1	NM_026794	ref Mus musculus differentially expressed in B16F10 1 (Deb1), mRNA [NM_026794]	-0.34	0.002	0.100	-0.26	0.014	0.418
Bcl11b	NM_001079883	ref Mus musculus B-cell leukemia/lymphoma 11B (Bcl11b), transcript variant 1, mRNA [NM_001079883]	-0.94	0.002	0.101	-0.87	0.004	0.324
Kcnj12	NM_010603	ref Mus musculus potassium inwardly-rectifying channel, subfamily J, member 12 (Kcnj12), mRNA [NM_010603]	-0.47	0.002	0.101	-0.35	0.047	0.515
Cdc14b	NM_172587	ref Mus musculus CDC14 cell division cycle 14 homolog B (S. cerevisiae) (Cdc14b), transcript variant 1, mRNA [NM_172587]	-0.71	0.002	0.101	-0.57	0.015	0.423

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Smtnl2	NM_177776	ref Mus musculus smoothelin-like 2 (Smtnl2), mRNA [NM_177776]	-0.71	0.002	0.101	-0.69	0.017	0.432
Bcs1l	NM_025784	ref Mus musculus BCS1-like (yeast) (Bcs1l), nuclear gene encoding mitochondrial protein, mRNA [NM_025784]	-0.33	0.002	0.101	-0.33	0.011	0.407
A630039O03Rik	AK041809	gb Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630039O03 product:unclassifiable, full insert sequence. [AK041809]	-1.12	0.002	0.102	-0.86	0.007	0.374
Ak3	NM_021299	ref Mus musculus adenylate kinase 3 (Ak3), nuclear gene encoding mitochondrial protein, mRNA [NM_021299]	-0.30	0.002	0.102	-0.33	0.017	0.429
Gm10635	AK142702	gb Mus musculus 16 days neonate heart cDNA, RIKEN full-length enriched library, clone:D830014K04 product:hypothetical protein, full insert sequence. [AK142702]	-0.59	0.002	0.102	-0.41	0.022	0.450
Esm1	NM_023612	ref Mus musculus endothelial cell-specific molecule 1 (Esm1), mRNA [NM_023612]	-1.15	0.002	0.102	-1.18	0.012	0.410
B230208H17Rik	NM_001024616	ref Mus musculus RIKEN cDNA B230208H17 gene (B230208H17Rik), mRNA [NM_001024616]	-0.34	0.002	0.102	-0.27	0.015	0.420
Vstm2l	NM_198627	ref Mus musculus V-set and transmembrane domain containing 2-like (Vstm2l), mRNA [NM_198627]	-0.56	0.002	0.103	-0.50	0.013	0.412
Adamts17	NM_001033877	ref Mus musculus a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 17 (Adamts17), mRNA [NM_001033877]	-1.53	0.002	0.103	-1.39	0.016	0.424
Zfp238	NM_013915	ref Mus musculus zinc finger protein 238 (Zfp238), transcript variant 2, mRNA [NM_013915]	-0.33	0.002	0.104	-0.21	0.038	0.499
Shc4	NM_199022	ref Mus musculus SHC (Src homology 2 domain containing) family, member 4 (Shc4), mRNA [NM_199022]	-0.85	0.003	0.105	-0.56	0.024	0.459
ENSMUST00000098556	ENSMUST00000098556	ens guanine nucleotide binding protein (G protein), beta 5 Gene [Source:MGI Symbol;Acc:MGI:101848] [ENSMUST00000098556]	-0.33	0.003	0.105	-0.26	0.020	0.443
1110058L19Rik	NM_026503	ref Mus musculus RIKEN cDNA 1110058L19 gene (1110058L19Rik), mRNA [NM_026503]	-0.45	0.003	0.105	-0.59	0.015	0.423

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Hopx	NM_175606	ref Mus musculus HOP homeobox (Hopx), transcript variant 1, mRNA [NM_175606]	-0.38	0.003	0.106	-0.37	0.009	0.398
Th1l	NM_020580	ref Mus musculus TH1-like homolog (Drosophila) (Th1l), mRNA [NM_020580]	-0.35	0.003	0.106	-0.21	0.050	0.520
Snai3	NM_013914	ref Mus musculus snail homolog 3 (Drosophila) (Snai3), mRNA [NM_013914]	-0.46	0.003	0.106	-0.31	0.047	0.515
Gm9755	XM_001476294	ref PREDICTED: Mus musculus similar to Tu translation elongation factor, mitochondrial (LOC100046745), mRNA [XM_001476294]	-0.36	0.003	0.106	-0.36	0.012	0.407
Tmem179	NM_178915	ref Mus musculus transmembrane protein 179 (Tmem179), mRNA [NM_178915]	-0.49	0.003	0.106	-0.29	0.032	0.485
Hs1bp3	NM_021429	ref Mus musculus HCLS1 binding protein 3 (Hs1bp3), mRNA [NM_021429]	-0.29	0.003	0.106	-0.35	0.011	0.407
Hmgb3	NM_008253	ref Mus musculus high mobility group box 3 (Hmgb3), mRNA [NM_008253]	-0.40	0.003	0.107	-0.26	0.034	0.492
Dmpk	NM_032418	ref Mus musculus dystrophia myotonica-protein kinase (Dmpk), transcript variant 1, mRNA [NM_032418]	-0.50	0.003	0.107	-0.35	0.049	0.519
Dlat	NM_145614	ref Mus musculus dihydrolipoamide S-acetyltransferase (E2 component of pyruvate dehydrogenase complex) (Dlat), nuclear gene encoding mitochondrial protein, mRNA [NM_145614]	-0.43	0.003	0.109	-0.34	0.013	0.412
Tmem93	NM_001168470	ref Mus musculus transmembrane protein 93 (Tmem93), transcript variant 1, mRNA [NM_001168470]	-0.32	0.003	0.109	-0.27	0.012	0.409
chr3:145269449-145298239_R	chr3:145269449-145298239_R	lincRNA:chr3:145269449-145298239 reverse strand	-0.63	0.003	0.111	-0.55	0.008	0.391
chr16:40307070-40308718_F	chr16:40307070-40308718_F	lincRNA:chr16:40307070-40308718 forward strand	-0.36	0.003	0.111	-0.76	0.004	0.312
Cbr4	NM_145595	ref Mus musculus carbonyl reductase 4 (Cbr4), mRNA [NM_145595]	-0.31	0.003	0.113	-0.26	0.019	0.441
Hist2h4	NM_033596	ref Mus musculus histone cluster 2, H4 (Hist2h4), mRNA [NM_033596]	-0.59	0.003	0.113	-0.51	0.003	0.281

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Mrpl12	NM_027204	ref Mus musculus mitochondrial ribosomal protein L12 (Mrpl12), nuclear gene encoding mitochondrial protein, mRNA [NM_027204]	-0.35	0.003	0.114	-0.22	0.041	0.507
Kcnn1	NM_032397	ref Mus musculus potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1 (Kcnn1), mRNA [NM_032397]	-0.56	0.003	0.114	-0.64	0.015	0.420
2010305A19Rik	NM_027250	ref Mus musculus RIKEN cDNA 2010305A19 gene (2010305A19Rik), mRNA [NM_027250]	-0.34	0.003	0.114	-0.21	0.034	0.493
ENSMUST00000113652	ENSMUST00000113652	ens ATPase, aminophospholipid transporter (APLT), class I, type 8A, member 1 Gene [Source:MGI (curated);Acc:MGI:1330848] [ENSMUST00000113652]	-0.33	0.003	0.114	-0.31	0.024	0.459
3010026O09Rik	NM_026543	ref Mus musculus RIKEN cDNA 3010026O09 gene (3010026O09Rik), mRNA [NM_026543]	-0.55	0.003	0.115	-0.47	0.010	0.401
Rhox2h	NM_001100465	ref Mus musculus reproductive homeobox 2H (Rhox2h), mRNA [NM_001100465]	-0.55	0.003	0.115	-0.60	0.012	0.408
Syt3	NM_016663	ref Mus musculus synaptotagmin III (Syt3), transcript variant 1, mRNA [NM_016663]	-0.45	0.003	0.115	-0.35	0.019	0.439
Mblac2	NM_028372	ref Mus musculus metallo-beta-lactamase domain containing 2 (Mblac2), mRNA [NM_028372]	-0.47	0.003	0.115	-0.42	0.018	0.435
Pkm2	NM_011099	ref Mus musculus pyruvate kinase, muscle (Pkm2), mRNA [NM_011099]	-0.31	0.003	0.115	-0.23	0.046	0.513
Hdac11	NM_144919	ref Mus musculus histone deacetylase 11 (Hdac11), mRNA [NM_144919]	-0.62	0.003	0.116	-0.27	0.023	0.456
Auh	NM_016709	ref Mus musculus AU RNA binding protein/enoyl-coenzyme A hydratase (Auh), nuclear gene encoding mitochondrial protein, mRNA [NM_016709]	-0.35	0.003	0.117	-0.31	0.009	0.397
Gm13948	XM_283255	ref PREDICTED: Mus musculus similar to T-cell receptor alpha chain V region CTL-F3 precursor (LOC328483), mRNA [XM_283255]	-1.09	0.003	0.117	-1.11	0.007	0.384
Pkia	NM_008862	ref Mus musculus protein kinase inhibitor, alpha (Pkia), mRNA [NM_008862]	-0.53	0.003	0.117	-0.38	0.020	0.447

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Smtn	NM_013870	ref Mus musculus smoothelin (Smtn), transcript variant 2, mRNA [NM_013870]	-0.46	0.003	0.117	-0.35	0.030	0.480
Ecm2	NM_001012324	ref Mus musculus extracellular matrix protein 2, female organ and adipocyte specific (Ecm2), mRNA [NM_001012324]	-0.62	0.003	0.117	-0.88	0.011	0.406
Nr2f1	NM_010151	ref Mus musculus nuclear receptor subfamily 2, group F, member 1 (Nr2f1), mRNA [NM_010151]	-0.39	0.003	0.117	-0.36	0.038	0.499
Ift122	NM_031177	ref Mus musculus intraflagellar transport 122 homolog (Chlamydomonas) (Ift122), transcript variant 1, mRNA [NM_031177]	-0.40	0.003	0.118	-0.38	0.042	0.508
Klf12	NM_010636	ref Mus musculus Kruppel-like factor 12 (Klf12), mRNA [NM_010636]	-0.42	0.003	0.118	-0.35	0.027	0.473
Mycbpap	NM_170671	ref Mus musculus MYCBP associated protein (Mycbpap), mRNA [NM_170671]	-0.45	0.003	0.118	-0.52	0.002	0.279
chr13:58474388-58487288_R	chr13:58474388-58487288_R	lincRNA:chr13:58474388-58487288 reverse strand	-0.32	0.003	0.118	-0.27	0.029	0.477
Mrpl18	NM_026310	ref Mus musculus mitochondrial ribosomal protein L18 (Mrpl18), nuclear gene encoding mitochondrial protein, mRNA [NM_026310]	-0.42	0.003	0.119	-0.41	0.008	0.391
Zcchc17	NM_153160	ref Mus musculus zinc finger, CCHC domain containing 17 (Zcchc17), mRNA [NM_153160]	-0.32	0.003	0.119	-0.26	0.036	0.495
2010107G23Rik	NM_027251	ref Mus musculus RIKEN cDNA 2010107G23 gene (2010107G23Rik), mRNA [NM_027251]	-0.39	0.003	0.120	-0.49	0.033	0.490
D430019H16Rik	BC058677	gb Mus musculus RIKEN cDNA D430019H16 gene, mRNA (cDNA clone IMAGE:6834465), partial cds. [BC058677]	-0.76	0.003	0.121	-0.74	0.012	0.409
Prkra	NM_011871	ref Mus musculus protein kinase, interferon inducible double stranded RNA dependent activator (Prkra), mRNA [NM_011871]	-0.31	0.003	0.121	-0.36	0.005	0.344
Fabp7	NM_021272	ref Mus musculus fatty acid binding protein 7, brain (Fabp7), mRNA [NM_021272]	-0.84	0.003	0.122	-0.82	0.003	0.290
ENSMUST00000107918	ENSMUST00000107918	ref PREDICTED: Mus musculus similar to LOC569648 protein (LOC100040293), mRNA [XM_001474446]	-0.59	0.003	0.122	-0.47	0.015	0.423

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Alad	NM_008525	ref Mus musculus aminolevulinate, delta-, dehydratase (Alad), mRNA [NM_008525]	-0.38	0.003	0.123	-0.41	0.007	0.384
Cdh13	NM_019707	ref Mus musculus cadherin 13 (Cdh13), mRNA [NM_019707]	-0.34	0.003	0.123	-0.30	0.017	0.433
LOC100046998	XM_001477204	ref PREDICTED: Mus musculus similar to optic atrophy 1 (autosomal dominant) (LOC100046998), mRNA [XM_001477204]	-0.34	0.003	0.123	-0.29	0.013	0.412
Bcl6	NM_009744	ref Mus musculus B-cell leukemia/lymphoma 6 (Bcl6), mRNA [NM_009744]	-0.68	0.003	0.123	-0.64	0.044	0.512
Col4a4	NM_007735	ref Mus musculus collagen, type IV, alpha 4 (Col4a4), mRNA [NM_007735]	-0.47	0.003	0.124	-0.64	0.004	0.325
Tomm5	NM_001134646	ref Mus musculus translocase of outer mitochondrial membrane 5 homolog (yeast) (Tomm5), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA [NM_001134646]	-0.40	0.003	0.124	-0.47	0.006	0.369
Add3	NM_001164099	ref Mus musculus adducin 3 (gamma) (Add3), transcript variant 1, mRNA [NM_001164099]	-0.36	0.003	0.124	-0.38	0.015	0.419
Igfbpl1	NM_018741	ref Mus musculus insulin-like growth factor binding protein-like 1 (Igfbpl1), mRNA [NM_018741]	-0.72	0.003	0.124	-0.63	0.004	0.325
Ccdc51	NM_025689	ref Mus musculus coiled-coil domain containing 51 (Ccdc51), mRNA [NM_025689]	-0.37	0.003	0.124	-0.34	0.015	0.420
Clec1b	NM_019985	ref Mus musculus C-type lectin domain family 1, member b (Clec1b), mRNA [NM_019985]	-0.68	0.003	0.125	-0.53	0.011	0.407
Rpusd4	NM_028040	ref Mus musculus RNA pseudouridylate synthase domain containing 4 (Rpusd4), mRNA [NM_028040]	-0.38	0.004	0.126	-0.46	0.011	0.406
Gorasp1	NM_028976	ref Mus musculus golgi reassembly stacking protein 1 (Gorasp1), mRNA [NM_028976]	-0.32	0.004	0.126	-0.29	0.046	0.513
Gm4535	NM_001101644	ref Mus musculus predicted gene 4535 (Gm4535), mRNA [NM_001101644]	-0.47	0.004	0.127	-0.45	0.008	0.390
Idi1	NM_145360	ref Mus musculus isopentenyl-diphosphate delta isomerase (Idi1), mRNA [NM_145360]	-0.47	0.004	0.127	-0.47	0.021	0.448

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Tead1	NM_001166584	ref Mus musculus TEA domain family member 1 (Tead1), transcript variant 1, mRNA [NM_001166584]	-0.26	0.004	0.127	-0.27	0.008	0.390
Dnajc15	NM_025384	ref Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 15 (Dnajc15), mRNA [NM_025384]	-0.28	0.004	0.128	-0.21	0.030	0.480
Coq5	NM_026504	ref Mus musculus coenzyme Q5 homolog, methyltransferase (yeast) (Coq5), nuclear gene encoding mitochondrial protein, mRNA [NM_026504]	-0.35	0.004	0.129	-0.30	0.011	0.407
Crygb	NM_144761	ref Mus musculus crystallin, gamma B (Crygb), mRNA [NM_144761]	-0.86	0.004	0.129	-0.49	0.018	0.435
1810030N24Rik	NM_025471	ref Mus musculus RIKEN cDNA 1810030N24 gene (1810030N24Rik), mRNA [NM_025471]	-0.31	0.004	0.129	-0.31	0.027	0.472
Cabp5	NM_013877	ref Mus musculus calcium binding protein 5 (Cabp5), mRNA [NM_013877]	-0.78	0.004	0.129	-0.61	0.020	0.445
Gm10078	XM_001476956	ref PREDICTED: Mus musculus similar to mitochondrial ribosomal protein S36 (LOC100047151), mRNA [XM_001476956]	-0.32	0.004	0.129	-0.28	0.019	0.437
Nipa1	NM_153578	ref Mus musculus non imprinted in Prader-Willi/Angelman syndrome 1 homolog (human) (Nipa1), mRNA [NM_153578]	-0.46	0.004	0.129	-0.50	0.011	0.407
Nudt2	NM_025539	ref Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 2 (Nudt2), mRNA [NM_025539]	-0.34	0.004	0.129	-0.37	0.008	0.391
Pin1	NM_023371	ref Mus musculus protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (Pin1), mRNA [NM_023371]	-0.29	0.004	0.129	-0.24	0.036	0.495
Gm9732	ENSMUST00000100701	ens RIKEN cDNA 1700049E17 gene, gene 1 Gene [Source:MGI Symbol;Acc:MGI:1920665] [ENSMUST00000100701]	-0.61	0.004	0.129	-1.29	0.044	0.512
9030617O03Rik	NM_145448	ref Mus musculus RIKEN cDNA 9030617O03 gene (9030617O03Rik), mRNA [NM_145448]	-0.49	0.004	0.130	-0.38	0.029	0.477
chr4:21683562-21694350_R	chr4:21683562-21694350_R	lincRNA:chr4:21683562-21694350 reverse strand	-0.37	0.004	0.130	-0.36	0.028	0.476
chr12:88172043-88172731_R	chr12:88172043-88172731_R	lincRNA:chr12:88172043-88172731 reverse strand	-0.49	0.004	0.130	-0.51	0.003	0.281

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Chac2	NM_026527	ref Mus musculus ChaC, cation transport regulator homolog 2 (E. coli) (Chac2), mRNA [NM_026527]	-0.38	0.004	0.130	-0.31	0.018	0.435
Spna1	NM_011465	ref Mus musculus spectrin alpha 1 (Spna1), mRNA [NM_011465]	-0.85	0.004	0.130	-0.69	0.022	0.452
Cd1d1	NM_007639	ref Mus musculus CD1d1 antigen (Cd1d1), mRNA [NM_007639]	-0.46	0.004	0.130	-0.38	0.013	0.412
chr17:6426800-6528950_R	chr17:6426800-6528950_R	lincRNA:chr17:6426800-6528950 reverse strand	-0.40	0.004	0.130	-0.31	0.015	0.419
Tle2	NM_019725	ref Mus musculus transducin-like enhancer of split 2, homolog of Drosophila E(spl) (Tle2), mRNA [NM_019725]	-0.37	0.004	0.130	-0.32	0.006	0.356
Pilra	NM_153510	ref Mus musculus paired immunoglobulin-like type 2 receptor alpha (Pilra), mRNA [NM_153510]	-0.38	0.004	0.131	-0.56	0.020	0.447
chr18:47254152-47254844_F	chr18:47254152-47254844_F	lincRNA:chr18:47254152-47254844 forward strand	-0.43	0.004	0.131	-0.51	0.041	0.505
Ipo13	NM_146152	ref Mus musculus importin 13 (Ipo13), mRNA [NM_146152]	-0.41	0.004	0.131	-0.34	0.035	0.494
Tpcn1	NM_145853	ref Mus musculus two pore channel 1 (Tpcn1), mRNA [NM_145853]	-0.38	0.004	0.131	-0.44	0.010	0.403
Mrps12	NM_011885	ref Mus musculus mitochondrial ribosomal protein S12 (Mrps12), nuclear gene encoding mitochondrial protein, mRNA [NM_011885]	-0.33	0.004	0.132	-0.39	0.010	0.405
E130203B14Rik	NM_178791	ref Mus musculus RIKEN cDNA E130203B14 gene (E130203B14Rik), mRNA [NM_178791]	-0.64	0.004	0.132	-0.67	0.008	0.391
Gm6949	XR_033288	ref PREDICTED: Mus musculus similar to Creatine kinase B-type (Creatine kinase B chain) (B-CK) (LOC629121), misc RNA [XR_033288]	-0.69	0.004	0.133	-0.82	0.003	0.283
Lrrc14b	NM_001033042	ref Mus musculus leucine rich repeat containing 14B (Lrrc14b), mRNA [NM_001033042]	-0.61	0.004	0.133	-0.55	0.017	0.429
Fam173b	NM_026546	ref Mus musculus family with sequence similarity 173, member B (Fam173b), mRNA [NM_026546]	-0.40	0.004	0.133	-0.38	0.033	0.487
Tet1	NM_027384	ref Mus musculus tet oncogene 1 (Tet1), mRNA [NM_027384]	-0.96	0.004	0.134	-0.88	0.022	0.450

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Tspan13	NM_025359	ref Mus musculus tetraspanin 13 (Tspan13), mRNA [NM_025359]	-0.49	0.004	0.134	-0.52	0.020	0.447
H2-gs10	NM_001143689	ref Mus musculus MHC class I like protein GS10 (H2-gs10), mRNA [NM_001143689]	-0.32	0.004	0.134	-0.34	0.018	0.435
Tpbpb	NM_026429	ref Mus musculus trophoblast specific protein beta (Tpbpb), mRNA [NM_026429]	-0.50	0.004	0.135	-0.88	0.019	0.441
Hist1h2ba	NM_175663	ref Mus musculus histone cluster 1, H2ba (Hist1h2ba), mRNA [NM_175663]	-0.38	0.004	0.135	-0.30	0.009	0.393
Hemk1	NM_133984	ref Mus musculus HemK methyltransferase family member 1 (Hemk1), mRNA [NM_133984]	-0.34	0.004	0.135	-0.28	0.015	0.420
Dnmt3a	NM_007872	ref Mus musculus DNA methyltransferase 3A (Dnmt3a), transcript variant 1, mRNA [NM_007872]	-0.45	0.004	0.135	-0.58	0.049	0.518
Sema5b	NM_013661	ref Mus musculus sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5B (Sema5b), mRNA [NM_013661]	-0.56	0.004	0.135	-0.54	0.011	0.407
Hemk1	NM_133984	ref Mus musculus HemK methyltransferase family member 1 (Hemk1), mRNA [NM_133984]	-0.40	0.004	0.136	-0.28	0.024	0.459
Grb14	NM_016719	ref Mus musculus growth factor receptor bound protein 14 (Grb14), mRNA [NM_016719]	-0.41	0.004	0.136	-0.37	0.014	0.417
Gtpbp5	NM_181424	ref Mus musculus GTP binding protein 5 (Gtpbp5), transcript variant 1, mRNA [NM_181424]	-0.33	0.004	0.137	-0.31	0.024	0.458
ENSMUST00000075602	ENSMUST00000075602	ref PREDICTED: Mus musculus predicted gene, EG633752 (EG633752), mRNA [XM_980525]	-0.34	0.004	0.137	-0.48	0.040	0.502
Med29	NM_026042	ref Mus musculus mediator complex subunit 29 (Med29), mRNA [NM_026042]	-0.36	0.004	0.137	-0.39	0.007	0.370
Clstn2	NM_022319	ref Mus musculus calyntenin 2 (Clstn2), mRNA [NM_022319]	-0.62	0.004	0.137	-0.55	0.014	0.414
Cux2	NM_007804	ref Mus musculus cut-like homeobox 2 (Cux2), mRNA [NM_007804]	-0.79	0.004	0.138	-0.66	0.027	0.473
2310003H01Rik	NM_027980	ref Mus musculus RIKEN cDNA 2310003H01 gene (2310003H01Rik), mRNA [NM_027980]	-0.54	0.004	0.138	-0.40	0.020	0.443

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr6:28161665-28189840_F	chr6:28161665-28189840_F	lincRNA:chr6:28161665-28189840 forward strand	-0.69	0.004	0.139	-0.57	0.002	0.271
Coq4	NM_178693	ref Mus musculus coenzyme Q4 homolog (yeast) (Coq4), nuclear gene encoding mitochondrial protein, mRNA [NM_178693]	-0.35	0.004	0.139	-0.26	0.036	0.495
Nos2	NM_010927	ref Mus musculus nitric oxide synthase 2, inducible (Nos2), mRNA [NM_010927]	-0.34	0.004	0.140	-0.42	0.019	0.441
Mmaa	NM_133823	ref Mus musculus methylmalonic aciduria (cobalamin deficiency) type A (Mmaa), nuclear gene encoding mitochondrial protein, mRNA [NM_133823]	-0.30	0.004	0.140	-0.36	0.019	0.439
Gm7664	XM_981603	ref PREDICTED: Mus musculus predicted gene, EG665503, transcript variant 2 (EG665503), mRNA [XM_981603]	-0.28	0.004	0.140	-0.24	0.014	0.412
Lman2l	NM_001013374	ref Mus musculus lectin, mannose-binding 2-like (Lman2l), mRNA [NM_001013374]	-0.31	0.004	0.140	-0.38	0.021	0.447
Pigo	NM_020035	ref Mus musculus phosphatidylinositol glycan anchor biosynthesis, class O (Pigo), mRNA [NM_020035]	-0.44	0.004	0.140	-0.31	0.022	0.452
Timm50	NM_025616	ref Mus musculus translocase of inner mitochondrial membrane 50 homolog (yeast) (Timm50), nuclear gene encoding mitochondrial protein, mRNA [NM_025616]	-0.34	0.004	0.140	-0.30	0.005	0.349
Arfrp1	NM_001165991	ref Mus musculus ADP-ribosylation factor related protein 1 (Arfrp1), transcript variant 1, mRNA [NM_001165991]	-0.40	0.004	0.141	-0.35	0.036	0.495
Trim7	NM_053166	ref Mus musculus tripartite motif-containing 7 (Trim7), mRNA [NM_053166]	-0.85	0.004	0.142	-0.63	0.002	0.259
Gdf1	NM_008107	ref Mus musculus growth differentiation factor 1 (Gdf1), transcript variant 2, mRNA [NM_008107]	-0.48	0.004	0.142	-0.55	0.005	0.355
Tmem35	NM_026239	ref Mus musculus transmembrane protein 35 (Tmem35), mRNA [NM_026239]	-0.56	0.004	0.142	-0.36	0.014	0.412
Sox4	ENSMUST00000067230	ens SRY-box containing gene 4 Gene [Source:MGI (curated);Acc:MGI:98366] [ENSMUST00000067230]	-0.57	0.005	0.143	-0.42	0.013	0.412

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
P4ha2	NM_011031	ref Mus musculus procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha II polypeptide (P4ha2), transcript variant 2, mRNA [NM_011031]	-0.47	0.005	0.143	-0.45	0.004	0.330
Csprs	NM_033616	ref Mus musculus component of Sp100-rs (Csprs), mRNA [NM_033616]	-0.44	0.005	0.144	-0.44	0.029	0.477
Snx16	NM_029068	ref Mus musculus sorting nexin 16 (Snx16), transcript variant 1, mRNA [NM_029068]	-0.30	0.005	0.145	-0.35	0.035	0.494
chr7:66574000-66577193_F	chr7:66574000-66577193_F	lincRNA:chr7:66574000-66577193 forward strand	-0.47	0.005	0.145	-0.63	0.006	0.361
Mrpl41	NM_001031808	ref Mus musculus mitochondrial ribosomal protein L41 (Mrpl41), nuclear gene encoding mitochondrial protein, mRNA [NM_001031808]	-0.42	0.005	0.145	-0.23	0.037	0.496
Prdx5	NM_012021	ref Mus musculus peroxiredoxin 5 (Prdx5), nuclear gene encoding mitochondrial protein, mRNA [NM_012021]	-0.31	0.005	0.145	-0.22	0.045	0.513
Fam69a	NM_026062	ref Mus musculus family with sequence similarity 69, member A (Fam69a), mRNA [NM_026062]	-0.34	0.005	0.145	-0.26	0.022	0.450
Pitpnc1	NM_145823	ref Mus musculus phosphatidylinositol transfer protein, cytoplasmic 1 (Pitpnc1), mRNA [NM_145823]	-0.40	0.005	0.146	-0.38	0.006	0.369
Gm11964	XM_979372	ref PREDICTED: Mus musculus similar to endothelial differentiation-related factor 1 (LOC665181), mRNA [XM_979372]	-0.29	0.005	0.147	-0.26	0.018	0.435
Fastk	NM_023229	ref Mus musculus Fas-activated serine/threonine kinase (Fastk), mRNA [NM_023229]	-0.36	0.005	0.147	-0.33	0.015	0.421
Tob1	NM_009427	ref Mus musculus transducer of ErbB-2.1 (Tob1), mRNA [NM_009427]	-0.29	0.005	0.147	-0.25	0.045	0.513
Gm13713	XM_898561	ref PREDICTED: Mus musculus hypothetical LOC625033 (LOC625033), mRNA [XM_898561]	-0.60	0.005	0.147	-0.81	0.037	0.498
chr16:13514223-13516070_R	chr16:13514223-13516070_R	lincRNA:chr16:13514223-13516070 reverse strand	-0.45	0.005	0.148	-0.43	0.011	0.407
chr2:22782700-22801900_R	chr2:22782700-22801900_R	lincRNA:chr2:22782700-22801900 reverse strand	-0.60	0.005	0.148	-0.58	0.007	0.378

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Rangrf	NM_021329	ref Mus musculus RAN guanine nucleotide release factor (Rangrf), mRNA [NM_021329]	-0.41	0.005	0.149	-0.42	0.007	0.377
Sirt3	NM_022433	ref Mus musculus sirtuin 3 (silent mating type information regulation 2, homolog) 3 (S. cerevisiae) (Sirt3), transcript variant 1, mRNA [NM_022433]	-0.39	0.005	0.149	-0.25	0.050	0.520
Naa40	NM_027643	ref Mus musculus N(alpha)-acetyltransferase 40, NatD catalytic subunit, homolog (S. cerevisiae) (Naa40), mRNA [NM_027643]	-0.50	0.005	0.150	-0.41	0.048	0.516
Cdc34	NM_177613	ref Mus musculus cell division cycle 34 homolog (S. cerevisiae) (Cdc34), mRNA [NM_177613]	-0.39	0.005	0.150	-0.38	0.024	0.459
1810058I24Rik	AK082166	gb Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched library, clone:C230016J21 product:unclassifiable, full insert sequence. [AK082166]	-0.46	0.005	0.151	-0.34	0.018	0.435
Evl	NM_001163394	ref Mus musculus Ena-vasodilator stimulated phosphoprotein (Evl), transcript variant 1, mRNA [NM_001163394]	-0.33	0.005	0.152	-0.40	0.018	0.437
Mmab	NM_029956	ref Mus musculus methylmalonic aciduria (cobalamin deficiency) type B homolog (human) (Mmab), nuclear gene encoding mitochondrial protein, mRNA [NM_029956]	-0.49	0.005	0.152	-0.47	0.013	0.412
Scd2	NM_009128	ref Mus musculus stearyl-Coenzyme A desaturase 2 (Scd2), mRNA [NM_009128]	-0.33	0.005	0.152	-0.22	0.044	0.512
Dynl12	NM_026556	ref Mus musculus dynein light chain LC8-type 2 (Dynl12), transcript variant 1, mRNA [NM_026556]	-0.31	0.005	0.152	-0.33	0.016	0.426
ENSMUST00000097608	ENSMUST00000097608	ens RIKEN cDNA 3222401L13 gene Gene [Source:MGI Symbol;Acc:MGI:2444186] [ENSMUST00000097608]	-0.30	0.005	0.152	-0.54	0.012	0.408
chr6:52046805-52072744_R	chr6:52046805-52072744_R	lincRNA:chr6:52046805-52072744 reverse strand	-0.45	0.005	0.153	-0.40	0.031	0.481
LOC640965	ENSMUST00000112029	ens killer cell lectin-like receptor subfamily A, member 11 Gene [Source:MGI Symbol;Acc:MGI:1321092] [ENSMUST00000112029]	-0.73	0.005	0.153	-0.72	0.018	0.437

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000025743	ENSMUST00000025743	ens mitochondrial ribosomal protein L21 Gene [Source:MGI (curated);Acc:MGI:2660674] [ENSMUST00000025743]	-0.31	0.005	0.154	-0.33	0.004	0.325
LOC100045652	XM_001474677	ref PREDICTED: Mus musculus hypothetical protein LOC100045652 (LOC100045652), mRNA [XM_001474677]	-0.37	0.005	0.154	-0.40	0.027	0.473
chr13:28477490-28985604_R	chr13:28477490-28985604_R	lincRNA:chr13:28477490-28985604 reverse strand	-0.90	0.005	0.154	-0.53	0.028	0.474
Grtp1	NM_025768	ref Mus musculus GH regulated TBC protein 1 (Grtp1), mRNA [NM_025768]	-0.56	0.005	0.154	-0.57	0.012	0.411
Itga9	NM_133721	ref Mus musculus integrin alpha 9 (Itga9), transcript variant 1, mRNA [NM_133721]	-0.43	0.005	0.154	-0.49	0.031	0.482
Sybu	NM_176998	ref Mus musculus syntabulin (syntaxin-interacting) (Sybu), transcript variant a, mRNA [NM_176998]	-0.78	0.005	0.154	-0.50	0.026	0.470
chrX:120300373-120302404_F	chrX:120300373-120302404_F	lincRNA:chrX:120300373-120302404 forward strand	-0.45	0.005	0.154	-0.49	0.040	0.501
chr7:16633756-16634410_F	chr7:16633756-16634410_F	lincRNA:chr7:16633756-16634410 forward strand	-0.33	0.005	0.154	-0.41	0.031	0.483
Aplnr	NM_011784	ref Mus musculus apelin receptor (Aplnr), mRNA [NM_011784]	-1.63	0.005	0.154	-1.56	0.022	0.450
Sub1	NM_011294	ref Mus musculus SUB1 homolog (S. cerevisiae) (Sub1), mRNA [NM_011294]	-0.34	0.005	0.154	-0.32	0.049	0.519
Dot1l	NM_199322	ref Mus musculus DOT1-like, histone H3 methyltransferase (S. cerevisiae) (Dot1l), mRNA [NM_199322]	-0.47	0.005	0.154	-0.33	0.027	0.471
Ccdc39	NM_026222	ref Mus musculus coiled-coil domain containing 39 (Ccdc39), mRNA [NM_026222]	-0.48	0.005	0.155	-0.49	0.017	0.432
MacroD2	NM_028387	ref Mus musculus MACRO domain containing 2 (MacroD2), transcript variant 2, mRNA [NM_028387]	-0.45	0.005	0.155	-0.36	0.015	0.421
Acad8	NM_025862	ref Mus musculus acyl-Coenzyme A dehydrogenase family, member 8 (Acad8), nuclear gene encoding mitochondrial protein, mRNA [NM_025862]	-0.61	0.005	0.155	-0.59	0.020	0.443

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Med19	NM_025885	ref Mus musculus mediator of RNA polymerase II transcription, subunit 19 homolog (yeast) (Med19), mRNA [NM_025885]	-0.41	0.006	0.156	-0.29	0.021	0.449
Sdr39u1	NM_001082975	ref Mus musculus short chain dehydrogenase/reductase family 39U, member 1 (Sdr39u1), mRNA [NM_001082975]	-0.28	0.006	0.156	-0.22	0.042	0.508
2410015M20Rik	NM_153152	ref Mus musculus RIKEN cDNA 2410015M20 gene (2410015M20Rik), mRNA [NM_153152]	-0.30	0.006	0.156	-0.27	0.014	0.414
chr17:95255725-95272425_R	chr17:95255725-95272425_R	lincRNA:chr17:95255725-95272425 reverse strand	-0.36	0.006	0.157	-0.25	0.030	0.480
Hmgn2	NM_016957	ref Mus musculus high mobility group nucleosomal binding domain 2 (Hmgn2), mRNA [NM_016957]	-0.35	0.006	0.157	-0.53	0.032	0.485
2310002D06Rik	XM_899399	ref PREDICTED: Mus musculus RIKEN cDNA 2310002D06 gene (2310002D06Rik), mRNA [XM_899399]	-0.64	0.006	0.157	-0.54	0.048	0.518
Atxn7l1	NM_028139	ref Mus musculus ataxin 7-like 1 (Atxn7l1), transcript variant 2, mRNA [NM_028139]	-0.32	0.006	0.157	-0.44	0.015	0.420
chr7:16633756-16634410_F	chr7:16633756-16634410_F	lincRNA:chr7:16633756-16634410 forward strand	-0.38	0.006	0.157	-0.38	0.028	0.474
Tmtc4	NM_028651	ref Mus musculus transmembrane and tetratricopeptide repeat containing 4 (Tmtc4), mRNA [NM_028651]	-0.33	0.006	0.157	-0.28	0.049	0.519
Cxcr4	NM_009911	ref Mus musculus chemokine (C-X-C motif) receptor 4 (Cxcr4), mRNA [NM_009911]	-0.59	0.006	0.157	-0.68	0.009	0.393
Tubg1	NM_134024	ref Mus musculus tubulin, gamma 1 (Tubg1), mRNA [NM_134024]	-0.36	0.006	0.159	-0.27	0.043	0.509
Slc16a4	NM_146136	ref Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 4 (Slc16a4), mRNA [NM_146136]	-0.45	0.006	0.159	-0.51	0.002	0.279
D3Bwg0562e	NM_177664	ref Mus musculus DNA segment, Chr 3, Brigham & Women's Genetics 0562 expressed (D3Bwg0562e), mRNA [NM_177664]	-0.86	0.006	0.159	-0.61	0.044	0.512
Dffa	NM_010044	ref Mus musculus DNA fragmentation factor, alpha subunit (Dffa), transcript variant 2, mRNA [NM_010044]	-0.41	0.006	0.159	-0.29	0.031	0.483

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Ifitm7	ENSMUST00000090305	ens interferon induced transmembrane protein 7 Gene [Source:MGI (curated);Acc:MGI:1921732] [ENSMUST00000090305]	-0.43	0.006	0.160	-0.50	0.003	0.282
Tmem42	NM_025339	ref Mus musculus transmembrane protein 42 (Tmem42), transcript variant 1, mRNA [NM_025339]	-0.36	0.006	0.160	-0.36	0.010	0.404
Tmem41b	NM_153525	ref Mus musculus transmembrane protein 41B (Tmem41b), mRNA [NM_153525]	-0.49	0.006	0.160	-0.52	0.003	0.281
Hrsp12	NM_008287	ref Mus musculus heat-responsive protein 12 (Hrsp12), mRNA [NM_008287]	-0.32	0.006	0.160	-0.36	0.003	0.305
Nudt1	NM_008637	ref Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 1 (Nudt1), mRNA [NM_008637]	-0.33	0.006	0.161	-0.41	0.031	0.483
Lpar3	NM_022983	ref Mus musculus lysophosphatidic acid receptor 3 (Lpar3), mRNA [NM_022983]	-0.56	0.006	0.161	-0.55	0.047	0.515
Sox7	NM_011446	ref Mus musculus SRY-box containing gene 7 (Sox7), mRNA [NM_011446]	-0.42	0.006	0.161	-0.56	0.036	0.495
Mrpl49	NM_026246	ref Mus musculus mitochondrial ribosomal protein L49 (Mrpl49), nuclear gene encoding mitochondrial protein, mRNA [NM_026246]	-0.38	0.006	0.161	-0.46	0.019	0.440
Pitpnc1	NM_145823	ref Mus musculus phosphatidylinositol transfer protein, cytoplasmic 1 (Pitpnc1), mRNA [NM_145823]	-0.49	0.006	0.161	-0.31	0.043	0.509
ENSMUST00000113014	ENSMUST00000113014	ens microchidia 4 Gene [Source:MGI (curated);Acc:MGI:1922996] [ENSMUST00000113014]	-0.35	0.006	0.163	-0.41	0.004	0.308
Gm6238	XM_887355	ref PREDICTED: Mus musculus predicted gene, EG621542 (EG621542), mRNA [XM_887355]	-0.27	0.006	0.163	-0.22	0.030	0.480
Gm6911	XM_893520	ref PREDICTED: Mus musculus predicted gene, EG628747 (EG628747), mRNA [XM_893520]	-0.44	0.006	0.164	-0.35	0.019	0.441
Hist1h4k	NM_178211	ref Mus musculus histone cluster 1, H4k (Hist1h4k), mRNA [NM_178211]	-0.37	0.006	0.164	-0.36	0.016	0.425
Lrfn4	NM_153388	ref Mus musculus leucine rich repeat and fibronectin type III domain containing 4 (Lrfn4), mRNA [NM_153388]	-0.61	0.006	0.164	-0.56	0.010	0.400

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
AI596198	CF617181	gb AGENCOURT_15763788 NIH_MGC_204 Mus musculus cDNA clone IMAGE:30526659 5', mRNA sequence [CF617181]	-0.69	0.006	0.164	-0.96	0.009	0.394
Gm7097	XM_920293	ref PREDICTED: Mus musculus hypothetical LOC632955 (LOC632955), mRNA [XM_920293]	-0.47	0.006	0.164	-0.54	0.034	0.493
Tmem93	NM_025318	ref Mus musculus transmembrane protein 93 (Tmem93), transcript variant 2, mRNA [NM_025318]	-0.26	0.006	0.164	-0.25	0.031	0.482
Brwd1	NM_176928	ref Mus musculus bromodomain and WD repeat domain containing 1 (Brwd1), transcript variant 3, mRNA [NM_176928]	-0.31	0.006	0.165	-0.29	0.033	0.487
Hist4h4	NM_175652	ref Mus musculus histone cluster 4, H4 (Hist4h4), mRNA [NM_175652]	-0.61	0.006	0.165	-0.55	0.002	0.261
Grpel1	NM_024478	ref Mus musculus GrpE-like 1, mitochondrial (Grpel1), nuclear gene encoding mitochondrial protein, mRNA [NM_024478]	-0.31	0.006	0.166	-0.27	0.010	0.403
chr10:74325583-74396665_R	chr10:74325583-74396665_R	lincRNA:chr10:74325583-74396665 reverse strand	-0.33	0.006	0.166	-0.27	0.021	0.448
C330006K01Rik	NM_172725	ref Mus musculus RIKEN cDNA C330006K01 gene (C330006K01Rik), mRNA [NM_172725]	-0.34	0.006	0.166	-0.45	0.003	0.303
chr18:4415233-4415995_F	chr18:4415233-4415995_F	lincRNA:chr18:4415233-4415995 forward strand	-0.62	0.006	0.166	-0.65	0.017	0.433
Ddo	NM_027442	ref Mus musculus D-aspartate oxidase (Ddo), mRNA [NM_027442]	-0.47	0.006	0.167	-0.43	0.014	0.414
Ccnh	NM_023243	ref Mus musculus cyclin H (Ccnh), mRNA [NM_023243]	-0.41	0.006	0.167	-0.42	0.014	0.414
6230415J03Rik	AK078026	gb Mus musculus 11 days embryo head cDNA, RIKEN full-length enriched library, clone:6230415J03 product:unclassifiable, full insert sequence. [AK078026]	-0.30	0.006	0.167	-0.34	0.011	0.407
Enho	NM_027147	ref Mus musculus energy homeostasis associated (Enho), mRNA [NM_027147]	-0.42	0.006	0.168	-0.51	0.020	0.447
chr17:95255725-95272425_R	chr17:95255725-95272425_R	lincRNA:chr17:95255725-95272425 reverse strand	-0.30	0.006	0.168	-0.24	0.027	0.472

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Zfp536	NM_172385	ref Mus musculus zinc finger protein 536 (Zfp536), mRNA [NM_172385]	-0.56	0.006	0.169	-0.48	0.009	0.400
Rnf150	NM_177378	ref Mus musculus ring finger protein 150 (Rnf150), mRNA [NM_177378]	-0.50	0.006	0.169	-0.42	0.019	0.441
Acpp	NM_019807	ref Mus musculus acid phosphatase, prostate (Acpp), transcript variant 2, mRNA [NM_019807]	-0.50	0.006	0.170	-0.78	0.018	0.435
Abcb9	NM_019875	ref Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 9 (Abcb9), mRNA [NM_019875]	-0.75	0.006	0.170	-0.66	0.036	0.495
Gm3781	XM_001478003	ref PREDICTED: Mus musculus similar to pORF2 (LOC100042306), mRNA [XM_001478003]	-0.33	0.007	0.170	-0.39	0.011	0.407
Cby1	NM_028634	ref Mus musculus chibby homolog 1 (Drosophila) (Cby1), mRNA [NM_028634]	-0.33	0.007	0.171	-0.24	0.040	0.501
Fam158a	NM_033146	ref Mus musculus family with sequence similarity 158, member A (Fam158a), mRNA [NM_033146]	-0.27	0.007	0.171	-0.40	0.019	0.441
Rgs12	NM_173402	ref Mus musculus regulator of G-protein signaling 12 (Rgs12), transcript variant 1, mRNA [NM_173402]	-0.32	0.007	0.171	-0.25	0.029	0.477
Gm9481	XM_001474707	ref PREDICTED: Mus musculus similar to mitochondrial ribosomal protein L41 (LOC670250), mRNA [XM_001474707]	-0.28	0.007	0.171	-0.28	0.008	0.388
Prlr	NM_011169	ref Mus musculus prolactin receptor (Prlr), mRNA [NM_011169]	-1.15	0.007	0.172	-0.77	0.013	0.412
ENSMUST00000103381	ENSMUST00000103381	gb Mouse immunoglobulin variable region light chain (T5-626) mRNA. [X59193]	-0.61	0.007	0.172	-1.04	0.007	0.374
AI462493	NM_001160356	ref Mus musculus expressed sequence AI462493 (AI462493), mRNA [NM_001160356]	-0.41	0.007	0.172	-0.24	0.022	0.452
Hmgn2	NM_016957	ref Mus musculus high mobility group nucleosomal binding domain 2 (Hmgn2), mRNA [NM_016957]	-0.38	0.007	0.173	-0.52	0.050	0.520
Ermn	NM_029972	ref Mus musculus ermin, ERM-like protein (Ermn), mRNA [NM_029972]	-0.50	0.007	0.174	-0.64	0.014	0.414

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Timm22	NM_019818	ref Mus musculus translocase of inner mitochondrial membrane 22 homolog (yeast) (Timm22), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_019818]	-0.35	0.007	0.174	-0.41	0.022	0.452
chr2:84344350-84370075_R	chr2:84344350-84370075_R	lincRNA:chr2:84344350-84370075 reverse strand	-0.50	0.007	0.174	-0.40	0.022	0.451
Sh3bgr	NM_015825	ref Mus musculus SH3-binding domain glutamic acid-rich protein (Sh3bgr), mRNA [NM_015825]	-0.42	0.007	0.175	-0.41	0.002	0.266
Paqr7	NM_027995	ref Mus musculus progesterin and adipoQ receptor family member VII (Paqr7), mRNA [NM_027995]	-0.86	0.007	0.175	-0.83	0.003	0.285
Sgk3	NM_133220	ref Mus musculus serum/glucocorticoid regulated kinase 3 (Sgk3), transcript variant 1, mRNA [NM_133220]	-0.29	0.007	0.176	-0.25	0.022	0.452
chr3:78982395-79094345_F	chr3:78982395-79094345_F	lincRNA:chr3:78982395-79094345 forward strand	-0.92	0.007	0.176	-0.33	0.013	0.412
Tmem147	NM_027215	ref Mus musculus transmembrane protein 147 (Tmem147), mRNA [NM_027215]	-0.31	0.007	0.176	-0.31	0.008	0.391
Mrpl55	NM_026035	ref Mus musculus mitochondrial ribosomal protein L55 (Mrpl55), nuclear gene encoding mitochondrial protein, mRNA [NM_026035]	-0.43	0.007	0.176	-0.31	0.027	0.471
chr3:62895551-62896444_R	chr3:62895551-62896444_R	lincRNA:chr3:62895551-62896444 reverse strand	-0.57	0.007	0.176	-0.36	0.028	0.474
Atp1a2	NM_178405	ref Mus musculus ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide (Atp1a2), mRNA [NM_178405]	-0.34	0.007	0.176	-0.34	0.019	0.441
Mtx2	NM_016804	ref Mus musculus metaxin 2 (Mtx2), nuclear gene encoding mitochondrial protein, mRNA [NM_016804]	-0.27	0.007	0.176	-0.23	0.012	0.407
Slc6a17	NM_172271	ref Mus musculus solute carrier family 6 (neurotransmitter transporter), member 17 (Slc6a17), mRNA [NM_172271]	-0.54	0.007	0.177	-0.32	0.047	0.515
Pdss2	NM_027772	ref Mus musculus prenyl (solanesyl) diphosphate synthase, subunit 2 (Pdss2), transcript variant 1, mRNA [NM_027772]	-0.30	0.007	0.177	-0.22	0.035	0.495

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr15:8463685-8494960_R	chr15:8463685-8494960_R	lincRNA:chr15:8463685-8494960 reverse strand	-0.36	0.007	0.177	-0.27	0.050	0.520
chr16:90008636-90015586_R	chr16:90008636-90015586_R	lincRNA:chr16:90008636-90015586 reverse strand	-0.79	0.007	0.177	-0.98	0.016	0.425
Pkd2l2	NM_016927	ref Mus musculus polycystic kidney disease 2-like 2 (Pkd2l2), transcript variant 1, mRNA [NM_016927]	-0.63	0.007	0.177	-0.73	0.016	0.426
Gm9480	XR_031690	ref PREDICTED: Mus musculus similar to Ac2-008 (LOC670100), misc RNA [XR_031690]	-0.47	0.007	0.177	-0.73	0.008	0.389
ENSMUST00000110340	ENSMUST00000110340	ens COX16 cytochrome c oxidase assembly homolog (S. cerevisiae) Gene [Source:MGI Symbol;Acc:MGI:1913522] [ENSMUST00000110340]	-0.26	0.007	0.178	-0.30	0.009	0.397
Ccdc66	NM_177111	ref Mus musculus coiled-coil domain containing 66 (Ccdc66), mRNA [NM_177111]	-0.31	0.007	0.178	-0.34	0.020	0.443
Smarcd3	NM_025891	ref Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 (Smarcd3), mRNA [NM_025891]	-0.30	0.007	0.178	-0.25	0.030	0.480
LOC637711	XM_913466	ref PREDICTED: Mus musculus similar to mevalonate kinase (LOC637711), mRNA [XM_913466]	-0.38	0.007	0.178	-0.35	0.007	0.370
Blvra	NM_026678	ref Mus musculus biliverdin reductase A (Blvra), mRNA [NM_026678]	-0.26	0.007	0.179	-0.22	0.040	0.501
Kit	NM_001122733	ref Mus musculus kit oncogene (Kit), transcript variant 1, mRNA [NM_001122733]	-0.69	0.007	0.179	-0.91	0.004	0.325
Epb4.1l3	NM_013813	ref Mus musculus erythrocyte protein band 4.1-like 3 (Epb4.1l3), mRNA [NM_013813]	-0.43	0.007	0.179	-0.44	0.015	0.418
2510049J12Rik	NM_001101431	ref Mus musculus RIKEN cDNA 2510049J12 gene (2510049J12Rik), mRNA [NM_001101431]	-0.56	0.007	0.179	-0.62	0.024	0.463
Zfp809	NM_172763	ref Mus musculus zinc finger protein 809 (Zfp809), transcript variant 1, mRNA [NM_172763]	-0.30	0.007	0.179	-0.39	0.020	0.447
Phyhip	NM_145981	ref Mus musculus phytanoyl-CoA hydroxylase interacting protein (Phyhip), mRNA [NM_145981]	-0.68	0.007	0.179	-0.59	0.026	0.470
Ldoc1l	NM_177630	ref Mus musculus leucine zipper, down-regulated in cancer 1-like (Ldoc1l), mRNA [NM_177630]	-0.36	0.007	0.179	-0.53	0.028	0.474

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000031305	ENSMUST00000031305	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q9D5H7] [ENSMUST00000031305]	-1.62	0.007	0.179	-1.18	0.002	0.280
Ttc17	NM_183106	ref Mus musculus tetratricopeptide repeat domain 17 (Ttc17), mRNA [NM_183106]	-0.34	0.007	0.180	-0.30	0.022	0.452
Reep1	NM_178608	ref Mus musculus receptor accessory protein 1 (Reep1), nuclear gene encoding mitochondrial protein, mRNA [NM_178608]	-0.98	0.007	0.180	-1.00	0.005	0.346
Rnls	NM_001167818	ref Mus musculus renalase, FAD-dependent amine oxidase (Rnls), transcript variant 1, mRNA [NM_001167818]	-0.33	0.007	0.181	-0.37	0.005	0.342
Ndutf3	NM_023247	ref Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 3 (Ndutf3), nuclear gene encoding mitochondrial protein, mRNA [NM_023247]	-0.54	0.007	0.181	-0.23	0.047	0.515
Gpr22	NM_175191	ref Mus musculus G protein-coupled receptor 22 (Gpr22), mRNA [NM_175191]	-0.76	0.007	0.181	-0.56	0.011	0.406
Gm11383	XR_001895	ref PREDICTED: Mus musculus similar to prohibitin (LOC628301), misc RNA [XR_001895]	-0.35	0.007	0.181	-0.34	0.010	0.403
Gm6434	XM_887930	ref PREDICTED: Mus musculus predicted gene, EG623475 (EG623475), mRNA [XM_887930]	-0.28	0.007	0.181	-0.25	0.024	0.458
Igsf1	NM_177591	ref Mus musculus immunoglobulin superfamily, member 1 (Igsf1), transcript variant 1, mRNA [NM_177591]	-0.54	0.007	0.181	-0.71	0.015	0.421
Egln3	NM_028133	ref Mus musculus EGL nine homolog 3 (C. elegans) (Egln3), mRNA [NM_028133]	-0.70	0.007	0.182	-0.53	0.035	0.495
Bola3	NM_175277	ref Mus musculus bolA-like 3 (E. coli) (Bola3), mRNA [NM_175277]	-0.64	0.007	0.182	-0.27	0.027	0.472
LOC100044526	XR_030656	ref PREDICTED: Mus musculus similar to mitochondrial ribosomal protein S14 (LOC100044526), misc RNA [XR_030656]	-0.28	0.007	0.183	-0.30	0.013	0.412
Tnfrsf17	NM_011608	ref Mus musculus tumor necrosis factor receptor superfamily, member 17 (Tnfrsf17), mRNA [NM_011608]	-0.55	0.008	0.183	-0.68	0.007	0.380
Aadat	NM_011834	ref Mus musculus amino adipate aminotransferase (Aadat), mRNA [NM_011834]	-0.41	0.008	0.183	-0.28	0.048	0.516

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Fam57b	NM_026884	ref Mus musculus family with sequence similarity 57, member B (Fam57b), transcript variant 2, mRNA [NM_026884]	-0.40	0.008	0.183	-0.33	0.031	0.480
Gm2679	XM_001474360	ref PREDICTED: Mus musculus hypothetical protein LOC100040253 (LOC100040253), mRNA [XM_001474360]	-0.53	0.008	0.183	-0.88	0.002	0.281
chr1:135956616-135957485_R	chr1:135956616-135957485_R	lincRNA:chr1:135956616-135957485 reverse strand	-0.58	0.008	0.184	-0.39	0.034	0.493
Gm5825	XM_001473555	ref PREDICTED: Mus musculus similar to Translocase of inner mitochondrial membrane 23 homolog (yeast) (LOC545270), mRNA [XM_001473555]	-0.27	0.008	0.184	-0.22	0.024	0.459
Nat8b	XM_485799	ref PREDICTED: Mus musculus predicted gene, EG434057 (EG434057), mRNA [XM_485799]	-0.32	0.008	0.184	-0.42	0.021	0.449
Gm6594	XM_890094	ref PREDICTED: Mus musculus predicted gene, EG625514 (EG625514), mRNA [XM_890094]	-0.32	0.008	0.184	-0.52	0.039	0.501
Mrps36	NM_025369	ref Mus musculus mitochondrial ribosomal protein S36 (Mrps36), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_025369]	-0.43	0.008	0.185	-0.28	0.029	0.477
Mrps22	NM_025485	ref Mus musculus mitochondrial ribosomal protein S22 (Mrps22), nuclear gene encoding mitochondrial protein, mRNA [NM_025485]	-0.32	0.008	0.186	-0.24	0.018	0.437
Gm6651	XR_032823	ref PREDICTED: Mus musculus similar to high mobility group nucleosomal binding domain 2 (LOC626075), misc RNA [XR_032823]	-0.33	0.008	0.186	-0.48	0.017	0.431
chr6:128393530-128394127_F	chr6:128393530-128394127_F	lincRNA:chr6:128393530-128394127 forward strand	-0.45	0.008	0.187	-0.55	0.013	0.412
1810046J19Rik	NM_025559	ref Mus musculus RIKEN cDNA 1810046J19 gene (1810046J19Rik), mRNA [NM_025559]	-0.33	0.008	0.187	-0.44	0.006	0.366
Tomm22	NM_172609	ref Mus musculus translocase of outer mitochondrial membrane 22 homolog (yeast) (Tomm22), nuclear gene encoding mitochondrial protein, mRNA [NM_172609]	-0.31	0.008	0.187	-0.28	0.027	0.472

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Prrx1	NM_175686	ref Mus musculus paired related homeobox 1 (Prrx1), transcript variant 2, mRNA [NM_175686]	-0.46	0.008	0.188	-0.39	0.018	0.437
Mrpl3	NM_053159	ref Mus musculus mitochondrial ribosomal protein L3 (Mrpl3), nuclear gene encoding mitochondrial protein, mRNA [NM_053159]	-0.37	0.008	0.188	-0.30	0.037	0.497
Hrasls	NM_013751	ref Mus musculus HRAS-like suppressor (Hrasls), mRNA [NM_013751]	-0.49	0.008	0.189	-0.62	0.024	0.463
chr13:23517278-23523756_F	chr13:23517278-23523756_F	lincRNA:chr13:23517278-23523756 forward strand	-0.38	0.008	0.190	-0.67	0.002	0.273
C79246	C79246	gb C79246 Mouse 3.5-dpc blastocyst cDNA Mus musculus cDNA clone J0063B08 3' similar to Genomic sequence from Mouse 4; HTGS phase 3. [C79246]	-0.43	0.008	0.190	-0.29	0.050	0.520
Lenep	NM_020517	ref Mus musculus lens epithelial protein (Lenep), mRNA [NM_020517]	-0.40	0.008	0.191	-0.47	0.014	0.412
Tomm5	NM_001134646	ref Mus musculus translocase of outer mitochondrial membrane 5 homolog (yeast) (Tomm5), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA [NM_001134646]	-0.37	0.008	0.191	-0.42	0.022	0.452
A130042E20Rik	NM_172550	ref Mus musculus RIKEN cDNA A130042E20 gene (A130042E20Rik), mRNA [NM_172550]	-0.36	0.008	0.191	-0.53	0.024	0.461
chr18:23922600-23937275_R	chr18:23922600-23937275_R	lincRNA:chr18:23922600-23937275 reverse strand	-0.69	0.008	0.191	-0.68	0.007	0.375
Bola3	NM_175277	ref Mus musculus bolA-like 3 (E. coli) (Bola3), mRNA [NM_175277]	-0.34	0.008	0.191	-0.25	0.036	0.495
Gm4759	NR_003967	ref Mus musculus predicted gene 4759 (Gm4759), non-coding RNA [NR_003967]	-0.57	0.008	0.191	-0.42	0.046	0.513
Ftsj2	NM_026510	ref Mus musculus FtsJ homolog 2 (E. coli) (Ftsj2), mRNA [NM_026510]	-0.55	0.008	0.192	-0.51	0.017	0.434
Mrps33	NM_001010930	ref Mus musculus mitochondrial ribosomal protein S33 (Mrps33), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA [NM_001010930]	-0.33	0.008	0.192	-0.30	0.013	0.412

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
LOC100046032	XM_001475430	ref PREDICTED: Mus musculus similar to brain-2 class III POU-domain protein (LOC100046032), mRNA [XM_001475430]	-0.61	0.008	0.192	-0.32	0.047	0.515
Mrpl39	ENSMUST00000023607	ens mitochondrial ribosomal protein L39 Gene [Source:MGI (curated);Acc:MGI:1351620] [ENSMUST00000023607]	-0.39	0.008	0.193	-0.58	0.001	0.246
Lrat	NM_023624	ref Mus musculus lecithin-retinol acyltransferase (phosphatidylcholine-retinol-O-acyltransferase) (Lrat), mRNA [NM_023624]	-0.46	0.008	0.193	-0.41	0.042	0.507
Clec1b	NM_019985	ref Mus musculus C-type lectin domain family 1, member b (Clec1b), mRNA [NM_019985]	-0.59	0.008	0.194	-0.44	0.024	0.462
Grpel2	NM_021296	ref Mus musculus GrpE-like 2, mitochondrial (Grpel2), nuclear gene encoding mitochondrial protein, mRNA [NM_021296]	-0.26	0.008	0.194	-0.22	0.029	0.477
Gm11222	XR_031539	ref PREDICTED: Mus musculus similar to ribosomal protein L7-like 1 (LOC433716), misc RNA [XR_031539]	-0.25	0.008	0.195	-0.26	0.013	0.412
Hist1h2bc	NM_023422	ref Mus musculus histone cluster 1, H2bc (Hist1h2bc), mRNA [NM_023422]	-0.64	0.009	0.195	-0.30	0.014	0.414
Gadd45gip1	NM_183358	ref Mus musculus growth arrest and DNA-damage-inducible, gamma interacting protein 1 (Gadd45gip1), mRNA [NM_183358]	-0.27	0.009	0.196	-0.23	0.032	0.485
chr9:88575075-88611650_F	chr9:88575075-88611650_F	lincRNA:chr9:88575075-88611650 forward strand	-0.35	0.009	0.196	-0.26	0.029	0.477
chr8:74820025-74833350_F	chr8:74820025-74833350_F	lincRNA:chr8:74820025-74833350 forward strand	-0.35	0.009	0.197	-0.56	0.014	0.414
2810422O20Rik	NM_027279	ref Mus musculus RIKEN cDNA 2810422O20 gene (2810422O20Rik), mRNA [NM_027279]	-0.30	0.009	0.198	-0.33	0.045	0.513
Slc5a6	NM_001177621	ref Mus musculus solute carrier family 5 (sodium-dependent vitamin transporter), member 6 (Slc5a6), transcript variant 1, mRNA [NM_001177621]	-0.47	0.009	0.198	-0.32	0.026	0.470
ENSMUST00000099440	ENSMUST00000099440	ens RIKEN cDNA 1810034E14 gene Gene [Source:MGI Symbol;Acc:MGI:1913753] [ENSMUST00000099440]	-0.80	0.009	0.198	-0.85	0.001	0.185

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Gprasp2	NM_001163015	ref Mus musculus G protein-coupled receptor associated sorting protein 2 (Gprasp2), transcript variant 1, mRNA [NM_001163015]	-0.53	0.009	0.199	-0.51	0.041	0.505
1190007I07Rik	NM_001135567	ref Mus musculus RIKEN cDNA 1190007I07 gene (1190007I07Rik), transcript variant 1, mRNA [NM_001135567]	-0.40	0.009	0.199	-0.54	0.021	0.448
Gm7250	XM_001479700	ref PREDICTED: Mus musculus similar to TOM22 protein (LOC638791), mRNA [XM_001479700]	-0.29	0.009	0.199	-0.28	0.030	0.480
Ndufs4	NM_010887	ref Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 4 (Ndufs4), nuclear gene encoding mitochondrial protein, mRNA [NM_010887]	-0.30	0.009	0.199	-0.25	0.041	0.505
Snn	NM_009223	ref Mus musculus stannin (Snn), mRNA [NM_009223]	-0.28	0.009	0.199	-0.34	0.012	0.412
chr13:28477490-28985604_R	chr13:28477490-28985604_R	lincRNA:chr13:28477490-28985604 reverse strand	-0.45	0.009	0.199	-0.40	0.017	0.429
Bex6	NM_001033539	ref Mus musculus brain expressed gene 6 (Bex6), mRNA [NM_001033539]	-0.31	0.009	0.199	-0.51	0.005	0.342
Vmn1r86	NM_001167536	ref Mus musculus vomeronasal 1 receptor 86 (Vmn1r86), mRNA [NM_001167536]	-0.45	0.009	0.200	-0.38	0.034	0.493
1700031A10Rik	AK006574	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:1700031A10 product:ring finger protein 39, full insert sequence. [AK006574]	-0.42	0.009	0.200	-0.41	0.011	0.406
Dlgap3	NM_198618	ref Mus musculus discs, large (Drosophila) homolog-associated protein 3 (Dlgap3), mRNA [NM_198618]	-0.35	0.009	0.200	-0.41	0.007	0.384
Tspan7	NM_019634	ref Mus musculus tetraspanin 7 (Tspan7), mRNA [NM_019634]	-0.28	0.009	0.201	-0.27	0.031	0.482
C030030A07Rik	NM_001039558	ref Mus musculus RIKEN cDNA C030030A07 gene (C030030A07Rik), mRNA [NM_001039558]	-0.70	0.009	0.201	-1.29	0.042	0.508
Smap2	NM_133716	ref Mus musculus stromal membrane-associated GTPase-activating protein 2 (Smap2), mRNA [NM_133716]	-0.32	0.009	0.201	-0.23	0.047	0.515
Cryl1	NM_030004	ref Mus musculus crystallin, lambda 1 (Cryl1), mRNA [NM_030004]	-0.30	0.009	0.201	-0.45	0.011	0.407
Ptchd3	NM_029049	ref Mus musculus patched domain containing 3 (Ptchd3), mRNA [NM_029049]	-0.41	0.009	0.201	-0.47	0.017	0.433

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Lipt1	NM_001037918	ref Mus musculus lipoyltransferase 1 (Lipt1), nuclear gene encoding mitochondrial protein, mRNA [NM_001037918]	-0.29	0.009	0.202	-0.23	0.029	0.477
Dut	NM_023595	ref Mus musculus deoxyuridine triphosphatase (Dut), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA [NM_023595]	-0.43	0.009	0.202	-0.56	0.015	0.420
Bcas2	NM_026602	ref Mus musculus breast carcinoma amplified sequence 2 (Bcas2), mRNA [NM_026602]	-0.25	0.009	0.202	-0.27	0.012	0.408
Stip1	NM_016737	ref Mus musculus stress-induced phosphoprotein 1 (Stip1), mRNA [NM_016737]	-0.25	0.009	0.202	-0.20	0.037	0.496
2310042D19Rik	NM_172417	ref Mus musculus RIKEN cDNA 2310042D19 gene (2310042D19Rik), mRNA [NM_172417]	-0.40	0.009	0.204	-0.34	0.037	0.496
Slitrk6	NM_175499	ref Mus musculus SLIT and NTRK-like family, member 6 (Slitrk6), mRNA [NM_175499]	-0.69	0.009	0.204	-0.78	0.002	0.266
Unc13d	NM_001009573	ref Mus musculus unc-13 homolog D (C. elegans) (Unc13d), mRNA [NM_001009573]	-0.30	0.009	0.204	-0.22	0.033	0.487
Spryd4	NM_025716	ref Mus musculus SPRY domain containing 4 (Spryd4), mRNA [NM_025716]	-0.45	0.009	0.205	-0.35	0.041	0.506
Gm5086	XM_488691	ref PREDICTED: Mus musculus predicted gene, EG328314 (EG328314), mRNA [XM_488691]	-0.54	0.009	0.206	-0.55	0.048	0.516
Syt3	NM_016663	ref Mus musculus synaptotagmin III (Syt3), transcript variant 1, mRNA [NM_016663]	-0.45	0.010	0.207	-0.32	0.027	0.471
Bhlha15	NM_010800	ref Mus musculus basic helix-loop-helix family, member a15 (Bhlha15), mRNA [NM_010800]	-0.42	0.010	0.207	-0.51	0.014	0.412
Rnase6	NM_030098	ref Mus musculus ribonuclease, RNase A family, 6 (Rnase6), mRNA [NM_030098]	-0.57	0.010	0.207	-0.53	0.023	0.454
Def8	NM_054046	ref Mus musculus differentially expressed in FDCP 8 (Def8), mRNA [NM_054046]	-0.34	0.010	0.207	-0.38	0.023	0.455
Arhgef15	NM_177566	ref Mus musculus Rho guanine nucleotide exchange factor (GEF) 15 (Arhgef15), mRNA [NM_177566]	-0.25	0.010	0.208	-0.24	0.024	0.459
Elovl7	NM_029001	ref Mus musculus ELOVL family member 7, elongation of long chain fatty acids (yeast) (Elovl7), mRNA [NM_029001]	-0.96	0.010	0.208	-1.09	0.001	0.245

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Sox4	NM_009238	ref Mus musculus SRY-box containing gene 4 (Sox4), mRNA [NM_009238]	-0.47	0.010	0.208	-0.31	0.037	0.496
Hist1h4k	NM_178211	ref Mus musculus histone cluster 1, H4k (Hist1h4k), mRNA [NM_178211]	-0.52	0.010	0.208	-0.58	0.001	0.163
Mrpl53	NM_026744	ref Mus musculus mitochondrial ribosomal protein L53 (Mrpl53), nuclear gene encoding mitochondrial protein, mRNA [NM_026744]	-0.26	0.010	0.208	-0.25	0.017	0.429
Tmem117	NM_178789	ref Mus musculus transmembrane protein 117 (Tmem117), mRNA [NM_178789]	-0.28	0.010	0.208	-0.24	0.021	0.450
Gnpat	NM_010322	ref Mus musculus glyceronephosphate O-acyltransferase (Gnpat), mRNA [NM_010322]	-0.25	0.010	0.208	-0.20	0.042	0.508
1110021J02Rik	NM_026782	ref Mus musculus RIKEN cDNA 1110021J02 gene (1110021J02Rik), transcript variant 2, mRNA [NM_026782]	-0.35	0.010	0.208	-0.34	0.019	0.441
Rtn4ip1	NM_130892	ref Mus musculus reticulon 4 interacting protein 1 (Rtn4ip1), nuclear gene encoding mitochondrial protein, mRNA [NM_130892]	-0.30	0.010	0.208	-0.25	0.048	0.516
1810049H13Rik	NM_025560	ref Mus musculus RIKEN cDNA 1810049H13 gene (1810049H13Rik), mRNA [NM_025560]	-0.31	0.010	0.208	-0.32	0.017	0.433
Gm6195	XM_885368	ref PREDICTED: Mus musculus predicted gene, EG620986 (EG620986), mRNA [XM_885368]	-0.38	0.010	0.209	-0.45	0.038	0.499
Ccdc28b	NM_025455	ref Mus musculus coiled coil domain containing 28B (Ccdc28b), mRNA [NM_025455]	-0.28	0.010	0.210	-0.27	0.022	0.452
Chordc1	NM_025844	ref Mus musculus cysteine and histidine-rich domain (CHORD)-containing, zinc-binding protein 1 (Chordc1), mRNA [NM_025844]	-0.37	0.010	0.210	-0.46	0.033	0.489
Zfp454	NM_172794	ref Mus musculus zinc finger protein 454 (Zfp454), mRNA [NM_172794]	-0.66	0.010	0.211	-0.66	0.015	0.419
Atp5k	NM_007507	ref Mus musculus ATP synthase, H ⁺ transporting, mitochondrial F1F0 complex, subunit e (Atp5k), nuclear gene encoding mitochondrial protein, mRNA [NM_007507]	-0.24	0.010	0.212	-0.23	0.029	0.477

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Plxnd1	NM_026376	ref Mus musculus plexin D1 (Plxnd1), mRNA [NM_026376]	-0.54	0.010	0.212	-0.59	0.024	0.458
Nhlrc4	NM_001039038	ref Mus musculus NHL repeat containing 4 (Nhlrc4), mRNA [NM_001039038]	-0.71	0.010	0.212	-0.75	0.004	0.309
Nup210	NM_018815	ref Mus musculus nucleoporin 210 (Nup210), mRNA [NM_018815]	-0.34	0.010	0.212	-0.43	0.018	0.437
Glr3	BC033506	gb Mus musculus glutaredoxin 3, mRNA (cDNA clone MGC:35818 IMAGE:2651132), complete cds. [BC033506]	-0.22	0.010	0.212	-0.24	0.026	0.470
chr4:140841206-140841639_F	chr4:140841206-140841639_F	lincRNA:chr4:140841206-140841639 forward strand	-0.44	0.010	0.213	-0.65	0.035	0.495
Gm3396	XM_001474999	ref PREDICTED: Mus musculus hypothetical protein LOC100045832 (LOC100045832), mRNA [XM_001474999]	-0.46	0.010	0.214	-0.95	0.032	0.484
Rpa3	NM_026632	ref Mus musculus replication protein A3 (Rpa3), mRNA [NM_026632]	-0.39	0.010	0.214	-0.52	0.027	0.472
Mrps24	NM_026080	ref Mus musculus mitochondrial ribosomal protein S24 (Mrps24), nuclear gene encoding mitochondrial protein, mRNA [NM_026080]	-0.27	0.010	0.215	-0.21	0.049	0.518
chr13:31736054-31781679_R	chr13:31736054-31781679_R	lincRNA:chr13:31736054-31781679 reverse strand	-0.48	0.010	0.216	-0.46	0.037	0.496
Klhl30	NM_027551	ref Mus musculus kelch-like 30 (Drosophila) (Klhl30), mRNA [NM_027551]	-0.65	0.010	0.216	-0.61	0.012	0.412
6030458C11Rik	NM_029998	ref Mus musculus RIKEN cDNA 6030458C11 gene (6030458C11Rik), transcript variant 2, mRNA [NM_029998]	-0.26	0.011	0.216	-0.52	0.044	0.513
Ntsr2	NM_008747	ref Mus musculus neurotensin receptor 2 (Ntsr2), mRNA [NM_008747]	-0.40	0.011	0.216	-0.50	0.003	0.305
Anxa13	NM_027211	ref Mus musculus annexin A13 (Anxa13), mRNA [NM_027211]	-0.53	0.011	0.216	-0.38	0.044	0.513
1190003J15Rik	NM_029821	ref Mus musculus RIKEN cDNA 1190003J15 gene (1190003J15Rik), mRNA [NM_029821]	-0.48	0.011	0.216	-0.41	0.014	0.418
Fam92a	NM_026558	ref Mus musculus family with sequence similarity 92, member A (Fam92a), mRNA [NM_026558]	-0.28	0.011	0.217	-0.39	0.047	0.515

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Rnf7	NM_011279	ref Mus musculus ring finger protein 7 (Rnf7), mRNA [NM_011279]	-0.28	0.011	0.217	-0.33	0.006	0.369
LOC675695	XM_984350	ref PREDICTED: Mus musculus similar to LOC635138 protein (LOC675695), mRNA [XM_984350]	-0.47	0.011	0.217	-0.76	0.010	0.405
2310010M20Rik	NM_183283	ref Mus musculus RIKEN cDNA 2310010M20 gene (2310010M20Rik), mRNA [NM_183283]	-0.49	0.011	0.218	-0.36	0.040	0.501
Magi3	NM_133853	ref Mus musculus membrane associated guanylate kinase, WW and PDZ domain containing 3 (Magi3), transcript variant 2, mRNA [NM_133853]	-0.39	0.011	0.218	-0.25	0.029	0.477
Pop5	NM_026398	ref Mus musculus processing of precursor 5, ribonuclease P/MRP family (S. cerevisiae) (Pop5), mRNA [NM_026398]	-0.26	0.011	0.220	-0.29	0.013	0.412
Rfx8	NM_001145660	ref Mus musculus regulatory factor X 8 (Rfx8), mRNA [NM_001145660]	-0.61	0.011	0.220	-0.67	0.013	0.412
Acly	NM_134037	ref Mus musculus ATP citrate lyase (Acly), mRNA [NM_134037]	-0.30	0.011	0.222	-0.28	0.014	0.418
ENSMUST00000079084	ENSMUST00000079084	ens histone cluster 1, H4d Gene [Source:MGI (curated);Acc:MGI:2448423] [ENSMUST00000079084]	-0.48	0.011	0.222	-0.48	0.003	0.303
Cyp51	NM_020010	ref Mus musculus cytochrome P450, family 51 (Cyp51), mRNA [NM_020010]	-0.52	0.011	0.222	-0.41	0.026	0.467
Gng11	NM_025331	ref Mus musculus guanine nucleotide binding protein (G protein), gamma 11 (Gng11), mRNA [NM_025331]	-0.44	0.011	0.223	-0.63	0.030	0.479
Mrpl11	NM_025553	ref Mus musculus mitochondrial ribosomal protein L11 (Mrpl11), nuclear gene encoding mitochondrial protein, mRNA [NM_025553]	-0.26	0.011	0.223	-0.25	0.019	0.440
Crls1	NM_001024385	ref Mus musculus cardiolipin synthase 1 (Crls1), transcript variant 1, mRNA [NM_001024385]	-0.42	0.011	0.224	-0.46	0.010	0.402
Ctnnbip1	NM_023465	ref Mus musculus catenin beta interacting protein 1 (Ctnnbip1), transcript variant 1, mRNA [NM_023465]	-0.35	0.011	0.225	-0.33	0.014	0.418
Cabp7	NM_138948	ref Mus musculus calcium binding protein 7 (Cabp7), mRNA [NM_138948]	-0.71	0.011	0.225	-0.60	0.045	0.513
Tmem51	NM_145402	ref Mus musculus transmembrane protein 51 (Tmem51), mRNA [NM_145402]	-0.44	0.011	0.226	-0.41	0.049	0.519

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Ccbl1	NM_172404	ref Mus musculus cysteine conjugate-beta lyase 1 (Ccbl1), mRNA [NM_172404]	-0.26	0.011	0.226	-0.29	0.039	0.501
Cmtm8	NM_027294	ref Mus musculus CKLF-like MARVEL transmembrane domain containing 8 (Cmtm8), mRNA [NM_027294]	-0.25	0.011	0.226	-0.31	0.007	0.384
Gm4248	XM_001479553	ref PREDICTED: Mus musculus similar to hCG2040565 (LOC100043129), mRNA [XM_001479553]	-0.34	0.011	0.228	-0.57	0.045	0.513
chr6:128393530-128394127_F	chr6:128393530-128394127_F	lincRNA:chr6:128393530-128394127 forward strand	-0.51	0.012	0.228	-0.45	0.046	0.513
Gorasp1	NM_028976	ref Mus musculus golgi reassembly stacking protein 1 (Gorasp1), mRNA [NM_028976]	-0.36	0.012	0.229	-0.33	0.023	0.453
ENSMUST00000101060	ENSMUST00000101060	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3UQ53] [ENSMUST00000101060]	-0.29	0.012	0.231	-0.26	0.044	0.512
Sox11	NM_009234	ref Mus musculus SRY-box containing gene 11 (Sox11), mRNA [NM_009234]	-0.60	0.012	0.231	-0.53	0.035	0.494
Pcdh17	NM_001013753	ref Mus musculus protocadherin 17 (Pcdh17), mRNA [NM_001013753]	-0.58	0.012	0.231	-0.50	0.025	0.466
Phkb	NM_199446	ref Mus musculus phosphorylase kinase beta (Phkb), mRNA [NM_199446]	-0.30	0.012	0.231	-0.33	0.029	0.477
Timm8a1	NM_013898	ref Mus musculus translocase of inner mitochondrial membrane 8 homolog a1 (yeast) (Timm8a1), nuclear gene encoding mitochondrial protein, mRNA [NM_013898]	-0.25	0.012	0.231	-0.23	0.020	0.443
chr2:145501249-145508811_F	chr2:145501249-145508811_F	lincRNA:chr2:145501249-145508811 forward strand	-0.61	0.012	0.231	-0.79	0.002	0.279
Gm239	NM_001033333	ref Mus musculus predicted gene 239 (Gm239), mRNA [NM_001033333]	-0.49	0.012	0.231	-0.70	0.006	0.356
LOC100046079	XM_001475417	ref PREDICTED: Mus musculus similar to cytochrome c oxidase, subunit Vb (LOC100046079), mRNA [XM_001475417]	-0.25	0.012	0.232	-0.23	0.045	0.513
Timd4	NM_178759	ref Mus musculus T-cell immunoglobulin and mucin domain containing 4 (Timd4), mRNA [NM_178759]	-0.58	0.012	0.232	-0.60	0.025	0.464

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr14:77511189-77522852_F	chr14:77511189-77522852_F	lincRNA:chr14:77511189-77522852 forward strand	-0.50	0.012	0.234	-0.48	0.001	0.222
Slc4a3	NM_009208	ref Mus musculus solute carrier family 4 (anion exchanger), member 3 (Slc4a3), mRNA [NM_009208]	-0.28	0.012	0.235	-0.25	0.032	0.484
Tmem44	NM_172614	ref Mus musculus transmembrane protein 44 (Tmem44), mRNA [NM_172614]	-0.29	0.012	0.235	-0.28	0.018	0.437
Fam58b	NM_197989	ref Mus musculus family with sequence similarity 58, member B (Fam58b), mRNA [NM_197989]	-0.28	0.012	0.235	-0.30	0.029	0.477
Gm5595	NM_001008427	ref Mus musculus predicted gene 5595 (Gm5595), mRNA [NM_001008427]	-0.46	0.012	0.237	-0.77	0.009	0.398
Tmx2	NM_025868	ref Mus musculus thioredoxin-related transmembrane protein 2 (Tmx2), mRNA [NM_025868]	-0.53	0.012	0.237	-0.53	0.003	0.281
Rprd1a	NM_144861	ref Mus musculus regulation of nuclear pre-mRNA domain containing 1A (Rprd1a), mRNA [NM_144861]	-0.28	0.012	0.238	-0.30	0.020	0.443
Them4	NM_029431	ref Mus musculus thioesterase superfamily member 4 (Them4), mRNA [NM_029431]	-0.43	0.012	0.238	-0.38	0.026	0.471
G6pc3	NM_175935	ref Mus musculus glucose 6 phosphatase, catalytic, 3 (G6pc3), mRNA [NM_175935]	-0.27	0.012	0.238	-0.29	0.009	0.398
Zdhhc13	NM_028031	ref Mus musculus zinc finger, DHHC domain containing 13 (Zdhhc13), mRNA [NM_028031]	-0.23	0.012	0.239	-0.22	0.040	0.501
Fndc4	NM_022424	ref Mus musculus fibronectin type III domain containing 4 (Fndc4), mRNA [NM_022424]	-0.35	0.012	0.239	-0.34	0.008	0.391
LOC100046742	XR_032893	ref PREDICTED: Mus musculus similar to reproductive homeobox on X chromosome, 12 (LOC100046742), misc RNA [XR_032893]	-0.41	0.013	0.239	-0.47	0.034	0.491
AW047481	BU848224	gb AGENCOURT_10389307 NIH_MGC_144 Mus musculus cDNA clone IMAGE:6595514 5', mRNA sequence [BU848224]	-0.32	0.013	0.239	-0.30	0.016	0.427
Gemin7	NM_027189	ref Mus musculus gem (nuclear organelle) associated protein 7 (Gemin7), mRNA [NM_027189]	-0.29	0.013	0.239	-0.30	0.029	0.477
Dusp22	NM_001037955	ref Mus musculus dual specificity phosphatase 22 (Dusp22), transcript variant 1, mRNA [NM_001037955]	-0.31	0.013	0.240	-0.49	0.003	0.303

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr1:135956616-135957485_R	chr1:135956616-135957485_R	lincRNA:chr1:135956616-135957485 reverse strand	-0.44	0.013	0.241	-0.46	0.018	0.436
Tmem132a	NM_133804	ref Mus musculus transmembrane protein 132A (Tmem132a), mRNA [NM_133804]	-0.49	0.013	0.241	-0.39	0.044	0.513
Mrps15	NM_025544	ref Mus musculus mitochondrial ribosomal protein S15 (Mrps15), nuclear gene encoding mitochondrial protein, mRNA [NM_025544]	-0.25	0.013	0.242	-0.30	0.019	0.439
Siva1	NM_013929	ref Mus musculus SIVA1, apoptosis-inducing factor (Siva1), transcript variant 1, mRNA [NM_013929]	-0.77	0.013	0.242	-0.45	0.009	0.394
MacroD2	NM_028387	ref Mus musculus MACRO domain containing 2 (MacroD2), transcript variant 2, mRNA [NM_028387]	-0.39	0.013	0.244	-0.31	0.043	0.510
ENSMUST00000093816	ENSMUST00000093816	ens RIKEN cDNA 2310046A06 gene Gene [Source:MGI Symbol;Acc:MGI:1916892] [ENSMUST00000093816]	-0.29	0.013	0.244	-0.37	0.015	0.419
Tsnaxip1	NM_024445	ref Mus musculus translin-associated factor X (Tsnax) interacting protein 1 (Tsnaxip1), mRNA [NM_024445]	-0.93	0.013	0.244	-0.78	0.002	0.262
Sel1l3	NM_172710	ref Mus musculus sel-1 suppressor of lin-12-like 3 (C. elegans) (Sel1l3), mRNA [NM_172710]	-0.56	0.013	0.245	-0.49	0.022	0.450
Gpd2	NM_010274	ref Mus musculus glycerol phosphate dehydrogenase 2, mitochondrial (Gpd2), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA [NM_010274]	-0.22	0.013	0.245	-0.25	0.048	0.518
Manba	NM_027288	ref Mus musculus mannosidase, beta A, lysosomal (Manba), mRNA [NM_027288]	-0.45	0.013	0.245	-0.44	0.008	0.390
chr9:30529709-30589042_R	chr9:30529709-30589042_R	lincRNA:chr9:30529709-30589042 reverse strand	-0.42	0.013	0.245	-0.40	0.015	0.421
chr2:153163620-153170845_R	chr2:153163620-153170845_R	lincRNA:chr2:153163620-153170845 reverse strand	-0.29	0.013	0.246	-0.34	0.040	0.504
1810063B05Rik	NM_174987	ref Mus musculus RIKEN cDNA 1810063B05 gene (1810063B05Rik), mRNA [NM_174987]	-0.31	0.013	0.247	-0.40	0.025	0.463

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Slc25a19	NM_026071	ref Mus musculus solute carrier family 25 (mitochondrial thiamine pyrophosphate carrier), member 19 (Slc25a19), nuclear gene encoding mitochondrial protein, mRNA [NM_026071]	-0.38	0.013	0.247	-0.37	0.039	0.500
Flad1	NM_177041	ref Mus musculus RFad1, flavin adenine dinucleotide synthetase, homolog (yeast) (Flad1), mRNA [NM_177041]	-0.30	0.013	0.248	-0.38	0.007	0.384
Ttc32	NM_029321	ref Mus musculus tetratricopeptide repeat domain 32 (Ttc32), mRNA [NM_029321]	-0.26	0.013	0.248	-0.38	0.012	0.407
Mrpl44	NM_001081210	ref Mus musculus mitochondrial ribosomal protein L44 (Mrpl44), nuclear gene encoding mitochondrial protein, mRNA [NM_001081210]	-0.37	0.013	0.248	-0.28	0.046	0.513
Gm5113	NM_001033540	ref Mus musculus predicted gene 5113 (Gm5113), mRNA [NM_001033540]	-0.32	0.013	0.249	-0.50	0.016	0.423
EG667885	XM_986610	ref PREDICTED: Mus musculus predicted gene, EG667885 (EG667885), mRNA [XM_986610]	-0.63	0.014	0.250	-1.21	0.018	0.437
Clec7a	NM_020008	ref Mus musculus C-type lectin domain family 7, member a (Clec7a), mRNA [NM_020008]	-0.53	0.014	0.250	-0.55	0.013	0.412
chr7:117140887-117152562_F	chr7:117140887-117152562_F	lincRNA:chr7:117140887-117152562 forward strand	-0.26	0.014	0.251	-0.35	0.003	0.290
Tmed8	NM_001033475	ref Mus musculus transmembrane emp24 domain containing 8 (Tmed8), mRNA [NM_001033475]	-0.26	0.014	0.251	-0.36	0.044	0.512
Scn1b	NM_011322	ref Mus musculus sodium channel, voltage-gated, type I, beta (Scn1b), mRNA [NM_011322]	-0.32	0.014	0.251	-0.29	0.034	0.491
Mapkapk5	NM_010765	ref Mus musculus MAP kinase-activated protein kinase 5 (Mapkapk5), mRNA [NM_010765]	-0.66	0.014	0.251	-0.32	0.010	0.400
Pde4a	NM_183408	ref Mus musculus phosphodiesterase 4A, cAMP specific (Pde4a), transcript variant 5, mRNA [NM_183408]	-0.57	0.014	0.253	-0.46	0.040	0.504
6430571L13Rik	NM_175486	ref Mus musculus RIKEN cDNA 6430571L13 gene (6430571L13Rik), mRNA [NM_175486]	-0.68	0.014	0.253	-0.61	0.034	0.493
Ccnjl	NM_001045530	ref Mus musculus cyclin J-like (Ccnjl), mRNA [NM_001045530]	-0.53	0.014	0.253	-0.44	0.028	0.474

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr14:22267795-22319045_F	chr14:22267795-22319045_F	lincRNA:chr14:22267795-22319045 forward strand	-0.29	0.014	0.253	-0.26	0.016	0.424
Armc1	NM_028840	ref Mus musculus armadillo repeat containing 1 (Armc1), mRNA [NM_028840]	-0.31	0.014	0.253	-0.37	0.029	0.477
Fat4	NM_183221	ref Mus musculus FAT tumor suppressor homolog 4 (Drosophila) (Fat4), mRNA [NM_183221]	-0.25	0.014	0.253	-0.27	0.017	0.435
Larp4b	NM_172585	ref Mus musculus La ribonucleoprotein domain family, member 4B (Larp4b), mRNA [NM_172585]	-0.32	0.014	0.253	-0.33	0.048	0.517
Elk3	NM_013508	ref Mus musculus ELK3, member of ETS oncogene family (Elk3), transcript variant 1, mRNA [NM_013508]	-0.31	0.014	0.254	-0.39	0.030	0.479
I7Rn6	NM_026304	ref Mus musculus lethal, Chr 7, Rinchik 6 (I7Rn6), mRNA [NM_026304]	-0.26	0.014	0.254	-0.29	0.024	0.459
Brp44l	NM_018819	ref Mus musculus brain protein 44-like (Brp44l), mRNA [NM_018819]	-0.28	0.014	0.255	-0.28	0.029	0.477
Nat8b	XM_485799	ref PREDICTED: Mus musculus predicted gene, EG434057 (EG434057), mRNA [XM_485799]	-0.42	0.014	0.256	-0.43	0.020	0.443
Mrps36	NM_025369	ref Mus musculus mitochondrial ribosomal protein S36 (Mrps36), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_025369]	-0.27	0.014	0.257	-0.24	0.025	0.467
Ndufs8	NM_144870	ref Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 8 (Ndufs8), nuclear gene encoding mitochondrial protein, mRNA [NM_144870]	-0.50	0.014	0.257	-0.28	0.009	0.398
Plcd1	NM_019676	ref Mus musculus phospholipase C, delta 1 (Plcd1), mRNA [NM_019676]	-0.28	0.014	0.257	-0.34	0.019	0.439
Magt1	NM_025952	ref Mus musculus magnesium transporter 1 (Magt1), transcript variant 2, mRNA [NM_025952]	-0.38	0.014	0.257	-0.37	0.006	0.369
Agmat	NM_001081408	ref Mus musculus agmatine ureohydrolase (agmatinase) (Agmat), mRNA [NM_001081408]	-0.37	0.014	0.257	-0.40	0.015	0.418
Spnb4	NM_032610	ref Mus musculus spectrin beta 4 (Spnb4), mRNA [NM_032610]	-0.41	0.014	0.257	-0.31	0.031	0.481
Slc22a3	NM_011395	ref Mus musculus solute carrier family 22 (organic cation transporter), member 3 (Slc22a3), mRNA [NM_011395]	-0.73	0.014	0.258	-0.57	0.018	0.435

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Dnlz	NM_026828	ref Mus musculus DNL-type zinc finger (Dnlz), transcript variant 1, mRNA [NM_026828]	-0.23	0.014	0.258	-0.23	0.037	0.496
Rabggta	NM_019519	ref Mus musculus Rab geranylgeranyl transferase, a subunit (Rabggta), mRNA [NM_019519]	-0.26	0.015	0.259	-0.20	0.038	0.499
2610002I17Rik	NM_001081381	ref Mus musculus RIKEN cDNA 2610002I17 (2610002I17Rik), mRNA [NM_001081381]	-0.58	0.015	0.260	-0.55	0.046	0.513
Hamp2	NM_183257	ref Mus musculus hepcidin antimicrobial peptide 2 (Hamp2), mRNA [NM_183257]	-0.39	0.015	0.260	-0.35	0.009	0.395
Zfp386	NM_001004066	ref Mus musculus zinc finger protein 386 (Kruppel-like) (Zfp386), transcript variant 1, mRNA [NM_001004066]	-0.32	0.015	0.260	-0.36	0.041	0.506
chr11:97505439-97522274_R	chr11:97505439-97522274_R	lincRNA:chr11:97505439-97522274 reverse strand	-0.40	0.015	0.260	-0.45	0.007	0.374
Ndufb7	NM_025843	ref Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7 (Ndufb7), nuclear gene encoding mitochondrial protein, mRNA [NM_025843]	-0.22	0.015	0.260	-0.23	0.046	0.513
Chadl	NM_001164320	ref Mus musculus chondroadherin-like (Chadl), mRNA [NM_001164320]	-0.43	0.015	0.260	-0.44	0.010	0.400
Dazl	NM_010021	ref Mus musculus deleted in azoospermia-like (Dazl), mRNA [NM_010021]	-0.32	0.015	0.261	-0.74	0.009	0.394
Tmem86a	NM_026436	ref Mus musculus transmembrane protein 86A (Tmem86a), mRNA [NM_026436]	-0.46	0.015	0.262	-0.49	0.004	0.329
Rwdd4a	NM_203507	ref Mus musculus RWD domain containing 4A (Rwdd4a), mRNA [NM_203507]	-0.33	0.015	0.263	-0.37	0.023	0.454
Zfp536	NM_172385	ref Mus musculus zinc finger protein 536 (Zfp536), mRNA [NM_172385]	-0.52	0.015	0.263	-0.49	0.009	0.398
Ppig	NM_001081086	ref Mus musculus peptidyl-prolyl isomerase G (cyclophilin G) (Ppig), mRNA [NM_001081086]	-0.41	0.015	0.263	-0.47	0.032	0.483
Rpusd3	NM_001033204	ref Mus musculus RNA pseudouridylate synthase domain containing 3 (Rpusd3), mRNA [NM_001033204]	-0.28	0.015	0.263	-0.22	0.036	0.495
F2rl3	NM_007975	ref Mus musculus coagulation factor II (thrombin) receptor-like 3 (F2rl3), mRNA [NM_007975]	-0.46	0.015	0.263	-0.54	0.043	0.509

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr17:84470764-84486339_R	chr17:84470764-84486339_R	lincRNA:chr17:84470764-84486339 reverse strand	-0.41	0.015	0.263	-0.39	0.026	0.470
chr14:77511189-77522852_F	chr14:77511189-77522852_F	lincRNA:chr14:77511189-77522852 forward strand	-0.39	0.015	0.264	-0.50	0.000	0.160
Ahsa1	NM_146036	ref Mus musculus AHA1, activator of heat shock protein ATPase homolog 1 (yeast) (Ahsa1), mRNA [NM_146036]	-0.23	0.015	0.264	-0.22	0.035	0.495
Fam96a	NM_026635	ref Mus musculus family with sequence similarity 96, member A (Fam96a), mRNA [NM_026635]	-0.25	0.015	0.264	-0.25	0.012	0.409
Dolk	NM_177648	ref Mus musculus dolichol kinase (Dolk), mRNA [NM_177648]	-0.28	0.015	0.264	-0.32	0.024	0.459
A430046D13Rik	AK038230	gb Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130088J11 product:unclassifiable, full insert sequence. [AK038230]	-0.37	0.015	0.265	-0.42	0.011	0.407
chr3:84616804-84617383_R	chr3:84616804-84617383_R	lincRNA:chr3:84616804-84617383 reverse strand	-0.33	0.015	0.266	-0.56	0.008	0.391
Gm5595	NM_001008427	ref Mus musculus predicted gene 5595 (Gm5595), mRNA [NM_001008427]	-0.46	0.015	0.266	-0.72	0.016	0.425
1810035L17Rik	NM_026958	ref Mus musculus RIKEN cDNA 1810035L17 gene (1810035L17Rik), mRNA [NM_026958]	-0.29	0.016	0.267	-0.26	0.039	0.501
Ccdc122	NM_175369	ref Mus musculus coiled-coil domain containing 122 (Ccdc122), mRNA [NM_175369]	-0.89	0.016	0.267	-0.57	0.000	0.123
Ube2w	NM_025773	ref Mus musculus ubiquitin-conjugating enzyme E2W (putative) (Ube2w), mRNA [NM_025773]	-0.24	0.016	0.267	-0.33	0.019	0.439
Gmcl1	NM_011818	ref Mus musculus germ cell-less homolog 1 (Drosophila) (Gmcl1), mRNA [NM_011818]	-0.23	0.016	0.267	-0.43	0.037	0.496
Olfr826	NM_146676	ref Mus musculus olfactory receptor 826 (Olfr826), mRNA [NM_146676]	-0.79	0.016	0.268	-1.00	0.006	0.361
6430573F11Rik	NM_176952	ref Mus musculus RIKEN cDNA 6430573F11 gene (6430573F11Rik), mRNA [NM_176952]	-0.53	0.016	0.269	-0.37	0.040	0.504
Sfrs12ip1	NM_026075	ref Mus musculus SFRS12-interacting protein 1 (Sfrs12ip1), mRNA [NM_026075]	-0.28	0.016	0.269	-0.38	0.047	0.515

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
LOC100046187	XR_032407	ref PREDICTED: Mus musculus similar to Alpha-1-antitrypsin 1-2 precursor (Serine protease inhibitor 1-2) (Alpha-1 protease inhibitor 2) (Alpha-1-antiproteinase) (AAT) (LOC100046187), misc RNA [XR_032407]	-0.70	0.016	0.270	-1.10	0.004	0.315
1700020C11Rik	NM_026443	ref Mus musculus RIKEN cDNA 1700020C11 gene (1700020C11Rik), mRNA [NM_026443]	-0.66	0.016	0.270	-0.67	0.010	0.403
Gm2064	XM_001472343	ref PREDICTED: Mus musculus hypothetical protein LOC100039143 (LOC100039143), mRNA [XM_001472343]	-0.88	0.016	0.271	-0.61	0.014	0.418
Cdk5r1	NM_009871	ref Mus musculus cyclin-dependent kinase 5, regulatory subunit 1 (p35) (Cdk5r1), mRNA [NM_009871]	-0.57	0.016	0.271	-0.41	0.017	0.429
Dffa	NM_001025296	ref Mus musculus DNA fragmentation factor, alpha subunit (Dffa), transcript variant 1, mRNA [NM_001025296]	-0.30	0.016	0.271	-0.27	0.045	0.513
Arvcf	NM_033474	ref Mus musculus armadillo repeat gene deleted in velo-cardio-facial syndrome (Arvcf), mRNA [NM_033474]	-0.29	0.016	0.273	-0.33	0.045	0.513
Nme6	NM_018757	ref Mus musculus non-metastatic cells 6, protein expressed in (nucleoside-diphosphate kinase) (Nme6), mRNA [NM_018757]	-0.32	0.016	0.273	-0.29	0.043	0.511
Reg3b	NM_011036	ref Mus musculus regenerating islet-derived 3 beta (Reg3b), mRNA [NM_011036]	-0.52	0.016	0.273	-0.55	0.015	0.420
Fahd2a	NM_029629	ref Mus musculus fumarylacetoacetate hydrolase domain containing 2A (Fahd2a), mRNA [NM_029629]	-0.27	0.016	0.273	-0.33	0.009	0.394
Cacybp	NM_009786	ref Mus musculus calyculin binding protein (Cacybp), mRNA [NM_009786]	-0.32	0.016	0.273	-0.30	0.031	0.480
Tatdn3	NM_001163421	ref Mus musculus TatD DNase domain containing 3 (Tatdn3), transcript variant 2, mRNA [NM_001163421]	-0.48	0.016	0.274	-0.33	0.021	0.450
chr2:167085700-167117795_F	chr2:167085700-167117795_F	lincRNA:chr2:167085700-167117795 forward strand	-0.22	0.017	0.274	-0.22	0.029	0.477
LOC630284	XM_903408	ref PREDICTED: Mus musculus similar to monoclonal anti-alpha-1,3-galactosyltransferase IgM heavy chain (LOC630284), mRNA [XM_903408]	-0.42	0.017	0.274	-0.46	0.010	0.401

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
3110009F21Rik	XM_001476790	ref PREDICTED: Mus musculus RIKEN cDNA 3110009F21 gene (3110009F21Rik), mRNA [XM_001476790]	-0.46	0.017	0.274	-0.70	0.007	0.374
LOC100045094	XM_001473657	ref PREDICTED: Mus musculus hypothetical protein LOC100045094 (LOC100045094), mRNA [XM_001473657]	-0.32	0.017	0.275	-0.58	0.005	0.352
Klra22	NM_053152	ref Mus musculus killer cell lectin-like receptor subfamily A, member 22 (Klra22), mRNA [NM_053152]	-0.48	0.017	0.276	-0.56	0.008	0.391
H2-Ab1	NM_207105	ref Mus musculus histocompatibility 2, class II antigen A, beta 1 (H2-Ab1), mRNA [NM_207105]	-1.02	0.017	0.276	-1.37	0.012	0.408
Atf7ip2	NM_029253	ref Mus musculus activating transcription factor 7 interacting protein 2 (Atf7ip2), transcript variant 2, mRNA [NM_029253]	-0.29	0.017	0.276	-0.34	0.049	0.519
chr14:22267795-22319045_F	chr14:22267795-22319045_F	lincRNA:chr14:22267795-22319045 forward strand	-0.24	0.017	0.278	-0.21	0.028	0.476
Narf	NM_026272	ref Mus musculus nuclear prelamin A recognition factor (Narf), mRNA [NM_026272]	-0.38	0.017	0.278	-0.41	0.002	0.266
Gm5523	NR_004447	ref Mus musculus predicted pseudogene 5523 (Gm5523), non-coding RNA [NR_004447]	-0.36	0.017	0.278	-0.34	0.021	0.450
chr14:105987405-106063477_R	chr14:105987405-106063477_R	lincRNA:chr14:105987405-106063477 reverse strand	-1.18	0.017	0.278	-0.65	0.006	0.361
Dip2b	NM_001159361	ref Mus musculus DIP2 disco-interacting protein 2 homolog B (Drosophila) (Dip2b), transcript variant 1, mRNA [NM_001159361]	-0.49	0.017	0.278	-0.37	0.003	0.290
Gm561	NM_001033297	ref Mus musculus predicted gene 561 (Gm561), mRNA [NM_001033297]	-0.25	0.017	0.278	-0.29	0.018	0.437
Gstt1	NM_008185	ref Mus musculus glutathione S-transferase, theta 1 (Gstt1), mRNA [NM_008185]	-0.30	0.017	0.278	-0.36	0.012	0.408
Gm12540	XR_032593	ref PREDICTED: Mus musculus similar to ganglioside-induced differentiation associated protein 3 (LOC100041328), misc RNA [XR_032593]	-0.27	0.017	0.279	-0.23	0.038	0.499
Tmx2	NM_025868	ref Mus musculus thioredoxin-related transmembrane protein 2 (Tmx2), mRNA [NM_025868]	-0.57	0.017	0.279	-0.62	0.005	0.349

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Retnla	NM_020509	ref Mus musculus resistin like alpha (Retnla), mRNA [NM_020509]	-0.87	0.017	0.279	-1.15	0.007	0.370
1810020D17Rik	NM_001177946	ref Mus musculus RIKEN cDNA 1810020D17 gene (1810020D17Rik), transcript variant 3, mRNA [NM_001177946]	-0.28	0.017	0.279	-0.28	0.023	0.453
B230118H07Rik	NM_026592	ref Mus musculus RIKEN cDNA B230118H07 gene (B230118H07Rik), mRNA [NM_026592]	-0.21	0.017	0.280	-0.20	0.047	0.515
chr2:129402701-129403112_R	chr2:129402701-129403112_R	lincRNA:chr2:129402701-129403112 reverse strand	-0.48	0.017	0.280	-0.61	0.019	0.439
Bbs10	NM_027914	ref Mus musculus Bardet-Biedl syndrome 10 (human) (Bbs10), mRNA [NM_027914]	-0.27	0.017	0.280	-0.57	0.014	0.412
Mrps7	NM_025305	ref Mus musculus mitochondrial ribosomal protein S7 (Mrps7), mRNA [NM_025305]	-0.22	0.017	0.280	-0.20	0.047	0.514
Gm3806	XM_001478568	ref PREDICTED: Mus musculus similar to LOC434536 protein (LOC100042368), mRNA [XM_001478568]	-0.45	0.017	0.280	-0.78	0.020	0.445
Zfp599	NM_181419	ref Mus musculus zinc finger protein 599 (Zfp599), mRNA [NM_181419]	-0.64	0.018	0.280	-0.54	0.026	0.469
chr12:55401761-55418611_F	chr12:55401761-55418611_F	lincRNA:chr12:55401761-55418611 forward strand	-0.63	0.018	0.281	-0.45	0.018	0.436
Ndutf2	NM_001127346	ref Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 2 (Ndutf2), nuclear gene encoding mitochondrial protein, mRNA [NM_001127346]	-0.24	0.018	0.281	-0.26	0.013	0.412
Adam17	NM_009615	ref Mus musculus a disintegrin and metalloproteinase domain 17 (Adam17), mRNA [NM_009615]	-0.46	0.018	0.281	-0.41	0.043	0.511
chr10:8662761-8665101_R	chr10:8662761-8665101_R	lincRNA:chr10:8662761-8665101 reverse strand	-1.02	0.018	0.283	-0.80	0.030	0.477
Ngb	NM_022414	ref Mus musculus neuroglobin (Ngb), mRNA [NM_022414]	-0.48	0.018	0.283	-0.39	0.027	0.471
Mrpl13	NM_026759	ref Mus musculus mitochondrial ribosomal protein L13 (Mrpl13), nuclear gene encoding mitochondrial protein, mRNA [NM_026759]	-0.24	0.018	0.283	-0.24	0.024	0.459

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Yif1a	NM_026553	ref Mus musculus Yip1 interacting factor homolog A (S. cerevisiae) (Yif1a), mRNA [NM_026553]	-0.30	0.018	0.283	-0.32	0.021	0.450
chr12:82495575-82516300_F	chr12:82495575-82516300_F	lincRNA:chr12:82495575-82516300 forward strand	-0.22	0.018	0.284	-0.38	0.013	0.412
Timm8b	NM_013897	ref Mus musculus translocase of inner mitochondrial membrane 8 homolog b (yeast) (Timm8b), nuclear gene encoding mitochondrial protein, mRNA [NM_013897]	-0.22	0.018	0.284	-0.23	0.018	0.435
Sucla2	NM_011506	ref Mus musculus succinate-Coenzyme A ligase, ADP-forming, beta subunit (Sucla2), nuclear gene encoding mitochondrial protein, mRNA [NM_011506]	-0.32	0.018	0.284	-0.29	0.039	0.500
chr2:150072436-150074859_F	chr2:150072436-150074859_F	lincRNA:chr2:150072436-150074859 forward strand	-0.75	0.018	0.284	-0.45	0.048	0.516
Trp53i11	NM_001025246	ref Mus musculus transformation related protein 53 inducible protein 11 (Trp53i11), mRNA [NM_001025246]	-0.45	0.018	0.284	-0.45	0.025	0.463
Cyb5rl	NM_175471	ref Mus musculus cytochrome b5 reductase-like (Cyb5rl), mRNA [NM_175471]	-0.30	0.018	0.284	-0.35	0.023	0.457
chr4:128241262-128242741_F	chr4:128241262-128242741_F	lincRNA:chr4:128241262-128242741 forward strand	-0.51	0.018	0.285	-0.58	0.045	0.513
Ccdc123	NM_028120	ref Mus musculus coiled-coil domain containing 123 (Ccdc123), mRNA [NM_028120]	-0.27	0.018	0.285	-0.33	0.006	0.369
Vegfc	NM_009506	ref Mus musculus vascular endothelial growth factor C (Vegfc), mRNA [NM_009506]	-0.31	0.018	0.286	-0.38	0.024	0.459
ENSMUST00000070702	ENSMUST00000070702	ens coiled-coil domain containing 13 Gene [Source:MGI (curated);Acc:MGI:1920144] [ENSMUST00000070702]	-0.29	0.018	0.286	-0.69	0.031	0.483
Pds5b	NM_175310	ref Mus musculus PDS5, regulator of cohesion maintenance, homolog B (S. cerevisiae) (Pds5b), mRNA [NM_175310]	-0.34	0.018	0.286	-0.46	0.042	0.508
Zfp329	NM_026046	ref Mus musculus zinc finger protein 329 (Zfp329), mRNA [NM_026046]	-0.30	0.018	0.287	-0.55	0.038	0.498
chr10:93819821-93976621_F	chr10:93819821-93976621_F	lincRNA:chr10:93819821-93976621 forward strand	-0.60	0.019	0.288	-0.63	0.025	0.463

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Marcks	NM_008538	ref Mus musculus myristoylated alanine rich protein kinase C substrate (Marcks), mRNA [NM_008538]	-0.35	0.019	0.288	-0.58	0.021	0.450
Sfrs12ip1	NM_026075	ref Mus musculus SFRS12-interacting protein 1 (Sfrs12ip1), mRNA [NM_026075]	-0.29	0.019	0.288	-0.44	0.045	0.513
Ccl24	NM_019577	ref Mus musculus chemokine (C-C motif) ligand 24 (Ccl24), mRNA [NM_019577]	-1.03	0.019	0.288	-0.98	0.015	0.418
ENSMUST00000072904	ENSMUST00000072904	ens NHP2-like protein 1 (High mobility group-like nuclear protein 2 homolog 1)(U4/U6.U5 tri-snRNP 15.5 kDa protein)(Sperm-specific antigen 1)(Fertilization antigen 1)(FA-1) [Source:UniProtKB/Swiss-Prot;Acc:Q9D0T1] [ENSMUST00000072904]	-0.22	0.019	0.289	-0.29	0.038	0.499
Arl6	NM_019665	ref Mus musculus ADP-ribosylation factor-like 6 (Arl6), mRNA [NM_019665]	-0.26	0.019	0.289	-0.40	0.005	0.346
Ush1c	NM_153677	ref Mus musculus Usher syndrome 1C homolog (human) (Ush1c), transcript variant b3, mRNA [NM_153677]	-0.31	0.019	0.289	-0.36	0.011	0.407
chrX:148720661-148763177_F	chrX:148720661-148763177_F	lincRNA:chrX:148720661-148763177 forward strand	-0.43	0.019	0.289	-0.48	0.021	0.449
LOC100043927	XM_001477629	ref PREDICTED: Mus musculus similar to salivary protein 1 (LOC100047196), mRNA [XM_001477629]	-0.31	0.019	0.290	-0.37	0.016	0.425
ENSMUST00000106035	ENSMUST00000106035	ens coiled coil domain containing 28B Gene [Source:MGI (curated);Acc:MGI:1913514] [ENSMUST00000106035]	-0.28	0.019	0.290	-0.39	0.015	0.420
chr15:96091428-96115684_F	chr15:96091428-96115684_F	lincRNA:chr15:96091428-96115684 forward strand	-0.49	0.019	0.290	-0.33	0.010	0.404
Qdpr	NM_024236	ref Mus musculus quinoid dihydropteridine reductase (Qdpr), mRNA [NM_024236]	-0.24	0.019	0.291	-0.23	0.032	0.484
chr8:19678750-20038750_F	chr8:19678750-20038750_F	lincRNA:chr8:19678750-20038750 forward strand	-0.56	0.019	0.291	-0.35	0.028	0.474
Lars2	NM_153168	ref Mus musculus leucyl-tRNA synthetase, mitochondrial (Lars2), nuclear gene encoding mitochondrial protein, mRNA [NM_153168]	-0.73	0.019	0.291	-0.30	0.012	0.412
Efna1	NM_010107	ref Mus musculus ephrin A1 (Efna1), transcript variant 1, mRNA [NM_010107]	-0.33	0.019	0.291	-0.40	0.018	0.435

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Hist2h2be	NM_178214	ref Mus musculus histone cluster 2, H2be (Hist2h2be), mRNA [NM_178214]	-0.54	0.019	0.292	-0.55	0.034	0.491
Kptn	NM_133727	ref Mus musculus kaptin (Kptn), mRNA [NM_133727]	-0.27	0.019	0.292	-0.32	0.038	0.499
Ndufa5	NM_026614	ref Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5 (Ndufa5), nuclear gene encoding mitochondrial protein, mRNA [NM_026614]	-0.23	0.019	0.293	-0.22	0.040	0.504
chr2:153163620-153170845_R	chr2:153163620-153170845_R	lincRNA:chr2:153163620-153170845 reverse strand	-0.30	0.019	0.293	-0.28	0.046	0.513
LOC100045150	XM_001473758	ref PREDICTED: Mus musculus hypothetical protein LOC100045150 (LOC100045150), mRNA [XM_001473758]	-0.35	0.019	0.293	-0.27	0.041	0.506
Wrb	NM_207301	ref Mus musculus tryptophan rich basic protein (Wrb), mRNA [NM_207301]	-0.29	0.019	0.293	-0.28	0.031	0.480
Tuba4a	NM_009447	ref Mus musculus tubulin, alpha 4A (Tuba4a), mRNA [NM_009447]	-0.71	0.019	0.293	-0.81	0.016	0.427
chr4:119967625-119978325_F	chr4:119967625-119978325_F	lincRNA:chr4:119967625-119978325 forward strand	-0.34	0.019	0.294	-0.28	0.024	0.459
Pcbd1	NM_025273	ref Mus musculus pterin 4 alpha carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 1 (Pcbd1), mRNA [NM_025273]	-0.52	0.019	0.294	-0.63	0.014	0.412
Anp32a	NM_009672	ref Mus musculus acidic (leucine-rich) nuclear phosphoprotein 32 family, member A (Anp32a), mRNA [NM_009672]	-0.25	0.020	0.294	-0.23	0.028	0.474
Il1fb	NM_054079	ref Mus musculus interleukin 10-related T cell-derived inducible factor beta (Il1fb), mRNA [NM_054079]	-0.33	0.020	0.295	-0.44	0.012	0.409
Nudt16l1	NM_025839	ref Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 16-like 1 (Nudt16l1), mRNA [NM_025839]	-0.24	0.020	0.295	-0.34	0.021	0.449
Supv3l1	NM_181423	ref Mus musculus suppressor of var1, 3-like 1 (S. cerevisiae) (Supv3l1), mRNA [NM_181423]	-0.35	0.020	0.295	-0.26	0.048	0.516
Pigz	NM_172822	ref Mus musculus phosphatidylinositol glycan anchor biosynthesis, class Z (Pigz), mRNA [NM_172822]	-0.57	0.020	0.295	-0.76	0.005	0.353

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Lgals1	NM_008495	ref Mus musculus lectin, galactose binding, soluble 1 (Lgals1), mRNA [NM_008495]	-0.34	0.020	0.295	-0.48	0.016	0.427
0610040J01Rik	NM_029554	ref Mus musculus RIKEN cDNA 0610040J01 gene (0610040J01Rik), mRNA [NM_029554]	-1.02	0.020	0.295	-0.97	0.002	0.281
Slc38a9	NM_178746	ref Mus musculus solute carrier family 38, member 9 (Slc38a9), mRNA [NM_178746]	-0.34	0.020	0.296	-0.55	0.020	0.444
Klra16	NM_013794	ref Mus musculus killer cell lectin-like receptor, subfamily A, member 16 (Klra16), mRNA [NM_013794]	-0.45	0.020	0.296	-0.75	0.002	0.270
Fbxl22	NM_175206	ref Mus musculus F-box and leucine-rich repeat protein 22 (Fbxl22), mRNA [NM_175206]	-0.64	0.020	0.297	-0.52	0.008	0.391
Alas1	NM_020559	ref Mus musculus aminolevulinic acid synthase 1 (Alas1), mRNA [NM_020559]	-0.46	0.020	0.298	-0.51	0.016	0.425
Oxnad1	NM_145460	ref Mus musculus oxidoreductase NAD-binding domain containing 1 (Oxnad1), mRNA [NM_145460]	-0.35	0.020	0.299	-0.29	0.048	0.516
Hist2h2aa2	NM_178212	ref Mus musculus histone cluster 2, H2aa2 (Hist2h2aa2), mRNA [NM_178212]	-0.28	0.020	0.300	-0.28	0.048	0.518
Mtrf1l	NM_175374	ref Mus musculus mitochondrial translational release factor 1-like (Mtrf1l), nuclear gene encoding mitochondrial protein, mRNA [NM_175374]	-0.34	0.020	0.300	-0.45	0.011	0.407
9030612E09Rik	NM_172419	ref Mus musculus RIKEN cDNA 9030612E09 gene (9030612E09Rik), mRNA [NM_172419]	-0.57	0.020	0.300	-0.42	0.039	0.500
Mrpl4	NM_023167	ref Mus musculus mitochondrial ribosomal protein L4 (Mrpl4), nuclear gene encoding mitochondrial protein, mRNA [NM_023167]	-0.24	0.020	0.301	-0.19	0.047	0.515
Lmod3	NM_001081157	ref Mus musculus leiomodoin 3 (fetal) (Lmod3), mRNA [NM_001081157]	-1.06	0.020	0.301	-1.07	0.013	0.412
Lpcat1	ENSMUST00000022099	ens lysophosphatidylcholine acyltransferase 1 Gene [Source:MGI (curated);Acc:MGI:2384812] [ENSMUST00000022099]	-0.44	0.020	0.301	-0.43	0.013	0.412
H2afj	NM_177688	ref Mus musculus H2A histone family, member J (H2afj), mRNA [NM_177688]	-0.32	0.020	0.302	-0.26	0.045	0.513

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Ltbp4	NM_175641	ref Mus musculus latent transforming growth factor beta binding protein 4 (Ltbp4), transcript variant 1, mRNA [NM_175641]	-0.30	0.020	0.302	-0.47	0.021	0.449
chr4:119932321-119932513_R	chr4:119932321-119932513_R	lincRNA:chr4:119932321-119932513 reverse strand	-0.56	0.021	0.302	-0.49	0.029	0.477
Mtf2	NM_013827	ref Mus musculus metal response element binding transcription factor 2 (Mtf2), mRNA [NM_013827]	-0.93	0.021	0.302	-0.62	0.003	0.302
Dnahc2	NM_001081330	ref Mus musculus dynein, axonemal, heavy chain 2 (Dnahc2), mRNA [NM_001081330]	-0.60	0.021	0.302	-0.48	0.014	0.414
Plxdc1	NM_001163608	ref Mus musculus plexin domain containing 1 (Plxdc1), transcript variant 1, mRNA [NM_001163608]	-0.41	0.021	0.302	-0.50	0.014	0.418
Col24a1	NM_027770	ref Mus musculus collagen, type XXIV, alpha 1 (Col24a1), mRNA [NM_027770]	-0.53	0.021	0.303	-0.47	0.013	0.412
H2-Eb1	NM_010382	ref Mus musculus histocompatibility 2, class II antigen E beta (H2-Eb1), mRNA [NM_010382]	-0.62	0.021	0.303	-0.83	0.011	0.406
Cnih	NM_009919	ref Mus musculus comichon homolog (Drosophila) (Cnih), mRNA [NM_009919]	-0.24	0.021	0.303	-0.38	0.034	0.493
chrX:131558071-131594875_R	chrX:131558071-131594875_R	lincRNA:chrX:131558071-131594875 reverse strand	-0.66	0.021	0.304	-0.45	0.036	0.495
Ston2	NM_175367	ref Mus musculus stonin 2 (Ston2), mRNA [NM_175367]	-0.52	0.021	0.304	-0.54	0.004	0.325
6430550D23Rik	NM_001145351	ref Mus musculus RIKEN cDNA 6430550D23 gene (6430550D23Rik), transcript variant 1, mRNA [NM_001145351]	-0.47	0.021	0.306	-0.38	0.038	0.499
Gm5525	XM_484844	ref PREDICTED: Mus musculus predicted gene, EG433283, transcript variant 1 (EG433283), mRNA [XM_484844]	-0.22	0.021	0.306	-0.28	0.027	0.472
Naa10	NM_001177965	ref Mus musculus N(alpha)-acetyltransferase 10, NatA catalytic subunit Nalpha acetyltransferase 10 (Naa10), transcript variant 2, mRNA [NM_001177965]	-0.32	0.021	0.307	-0.28	0.027	0.472
Mrps14	NM_025474	ref Mus musculus mitochondrial ribosomal protein S14 (Mrps14), nuclear gene encoding mitochondrial protein, mRNA [NM_025474]	-0.24	0.021	0.308	-0.25	0.036	0.495

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
LOC100233175	NM_001142938	ref Mus musculus hypothetical protein LOC100233175 (LOC100233175), transcript variant 1, mRNA [NM_001142938]	-0.24	0.021	0.309	-0.29	0.016	0.426
Ccnd2	NM_009829	ref Mus musculus cyclin D2 (Ccnd2), mRNA [NM_009829]	-0.37	0.022	0.310	-0.54	0.002	0.279
Apba3	NM_018758	ref Mus musculus amyloid beta (A4) precursor protein-binding, family A, member 3 (Apba3), mRNA [NM_018758]	-0.25	0.022	0.310	-0.23	0.048	0.516
Gpn1	NM_133756	ref Mus musculus GPN-loop GTPase 1 (Gpn1), mRNA [NM_133756]	-0.24	0.022	0.310	-0.24	0.038	0.499
chr9:40270437-40271031_R	chr9:40270437-40271031_R	lincRNA:chr9:40270437-40271031 reverse strand	-0.60	0.022	0.310	-0.49	0.018	0.435
Ifi203	NM_001045481	ref Mus musculus interferon activated gene 203 (Ifi203), transcript variant 1, mRNA [NM_001045481]	-0.80	0.022	0.310	-0.62	0.026	0.470
Fam55b	NM_030069	ref Mus musculus family with sequence similarity 55, member B (Fam55b), mRNA [NM_030069]	-0.40	0.022	0.310	-0.57	0.003	0.299
Tfrc	NM_011638	ref Mus musculus transferrin receptor (Tfrc), mRNA [NM_011638]	-1.29	0.022	0.310	-1.49	0.010	0.406
Gm10244	ENSMUST00000090237	ens Putative uncharacterized protein AnMKRN1 [Source:UniProtKB/TrEMBL;Acc:Q65Z89] [ENSMUST00000090237]	-0.38	0.022	0.310	-0.52	0.002	0.266
Akr1c14	NM_134072	ref Mus musculus aldo-keto reductase family 1, member C14 (Akr1c14), mRNA [NM_134072]	-0.42	0.022	0.311	-0.65	0.015	0.418
Timm44	NM_011592	ref Mus musculus translocase of inner mitochondrial membrane 44 (Timm44), nuclear gene encoding mitochondrial protein, mRNA [NM_011592]	-0.28	0.022	0.311	-0.22	0.048	0.516
Gm2867	XM_001474985	ref PREDICTED: Mus musculus hypothetical protein LOC100040616 (LOC100040616), mRNA [XM_001474985]	-0.75	0.022	0.312	-0.38	0.034	0.493
4931428F04Rik	NM_028888	ref Mus musculus RIKEN cDNA 4931428F04 gene (4931428F04Rik), transcript variant 1, mRNA [NM_028888]	-0.62	0.022	0.314	-0.65	0.033	0.487

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value	logFC mG4H-STZ	P-value	Adj. P-value
Ltbp4	NM_175641	ref Mus musculus latent transforming growth factor beta binding protein 4 (Ltbp4), transcript variant 1, mRNA [NM_175641]	-0.30	0.022	0.314	-0.53	0.014	0.415
Slc25a40	ENSMUST00000066921	ens solute carrier family 25, member 40 Gene [Source:MGI Symbol;Acc:MGI:2442486] [ENSMUST00000066921]	-0.85	0.022	0.314	-0.69	0.011	0.406
LOC553090	AK081940	gb Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, clone:C130088L03 product:unclassifiable, full insert sequence. [AK081940]	-0.28	0.022	0.315	-0.38	0.029	0.477
chr1:85304494-85305390_R	chr1:85304494-85305390_R	lincRNA:chr1:85304494-85305390 reverse strand	-0.50	0.022	0.315	-0.76	0.006	0.361
Nudt6	NM_153561	ref Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 6 (Nudt6), mRNA [NM_153561]	-0.34	0.022	0.316	-0.30	0.015	0.421
Ube2a	NM_019668	ref Mus musculus ubiquitin-conjugating enzyme E2A, RAD6 homolog (S. cerevisiae) (Ube2a), mRNA [NM_019668]	-0.25	0.022	0.316	-0.35	0.013	0.412
chr1:138442536-138520766_R	chr1:138442536-138520766_R	lincRNA:chr1:138442536-138520766 reverse strand	-0.40	0.023	0.316	-1.09	0.006	0.361
M97158	M97158	gb Mouse T cell receptor mRNA. [M97158]	-0.55	0.023	0.317	-0.46	0.029	0.477
2810055F11Rik	NM_026038	ref Mus musculus RIKEN cDNA 2810055F11 gene (2810055F11Rik), mRNA [NM_026038]	-0.27	0.023	0.317	-0.43	0.021	0.449
Snx22	NM_001025612	ref Mus musculus sorting nexin 22 (Snx22), mRNA [NM_001025612]	-0.26	0.023	0.317	-0.23	0.026	0.471
chr1:167515313-167516122_F	chr1:167515313-167516122_F	lincRNA:chr1:167515313-167516122 forward strand	-0.34	0.023	0.318	-0.56	0.007	0.374
H2-Ab1	NM_207105	ref Mus musculus histocompatibility 2, class II antigen A, beta 1 (H2-Ab1), mRNA [NM_207105]	-0.99	0.023	0.318	-1.26	0.012	0.408
Ppif	NM_134084	ref Mus musculus peptidylprolyl isomerase F (cyclophilin F) (Ppif), nuclear gene encoding mitochondrial protein, mRNA [NM_134084]	-0.36	0.023	0.318	-0.36	0.027	0.473
Cxx1c	NM_028375	ref Mus musculus CAAX box 1 homolog C (human) (Cxx1c), mRNA [NM_028375]	-0.35	0.023	0.318	-0.43	0.014	0.412

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000100708	ENSMUST00000100708	ref PREDICTED: Mus musculus hypothetical LOC665933 (LOC665933), misc RNA [XR_031751]	-0.30	0.023	0.318	-0.41	0.017	0.435
Ccdc83	NM_029256	ref Mus musculus coiled-coil domain containing 83 (Ccdc83), mRNA [NM_029256]	-0.81	0.023	0.318	-0.74	0.008	0.392
Mtr	NM_001081128	ref Mus musculus 5-methyltetrahydrofolate-homocysteine methyltransferase (Mtr), mRNA [NM_001081128]	-0.24	0.023	0.319	-0.24	0.042	0.508
Hn1l	NM_198937	ref Mus musculus hematological and neurological expressed 1-like (Hn1l), mRNA [NM_198937]	-0.31	0.023	0.319	-0.48	0.006	0.369
Lsm7	NM_025349	ref Mus musculus LSM7 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Lsm7), mRNA [NM_025349]	-0.24	0.023	0.319	-0.36	0.025	0.467
chr17:26613904-26614277_F	chr17:26613904-26614277_F	lincRNA:chr17:26613904-26614277 forward strand	-1.09	0.023	0.320	-1.17	0.022	0.452
Flywch2	NM_029798	ref Mus musculus FLYWCH family member 2 (Flywch2), mRNA [NM_029798]	-0.32	0.023	0.320	-0.26	0.045	0.513
Lst1	NM_010734	ref Mus musculus leukocyte specific transcript 1 (Lst1), mRNA [NM_010734]	-0.50	0.023	0.320	-0.52	0.048	0.516
chr3:19179899-19216399_R	chr3:19179899-19216399_R	lincRNA:chr3:19179899-19216399 reverse strand	-0.60	0.023	0.321	-0.42	0.044	0.512
Rnf7	NM_011279	ref Mus musculus ring finger protein 7 (Rnf7), mRNA [NM_011279]	-0.26	0.023	0.321	-0.36	0.017	0.435
chrX:165792277-165807952_R	chrX:165792277-165807952_R	lincRNA:chrX:165792277-165807952 reverse strand	-0.39	0.023	0.321	-0.51	0.044	0.511
chr1:52507374-52514124_F	chr1:52507374-52514124_F	lincRNA:chr1:52507374-52514124 forward strand	-1.09	0.024	0.323	-0.58	0.003	0.303
chr2:94046243-94070067_F	chr2:94046243-94070067_F	lincRNA:chr2:94046243-94070067 forward strand	-0.32	0.024	0.323	-0.42	0.005	0.353
1810012P15Rik	NM_001076681	ref Mus musculus RIKEN cDNA 1810012P15 gene (1810012P15Rik), mRNA [NM_001076681]	-0.49	0.024	0.325	-0.41	0.010	0.406
Cbr4	NM_145595	ref Mus musculus carbonyl reductase 4 (Cbr4), mRNA [NM_145595]	-0.29	0.024	0.325	-0.23	0.049	0.518
chr14:77511189-77522852_F	chr14:77511189-77522852_F	lincRNA:chr14:77511189-77522852 forward strand	-0.41	0.024	0.326	-0.49	0.002	0.270

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Mrps7	NM_025305	ref Mus musculus mitochondrial ribosomal protein S7 (Mrps7), mRNA [NM_025305]	-0.28	0.024	0.327	-0.29	0.042	0.509
Siglech	NM_178706	ref Mus musculus sialic acid binding Ig-like lectin H (Siglech), mRNA [NM_178706]	-0.55	0.024	0.327	-0.65	0.037	0.496
Rnpep	NM_145417	ref Mus musculus arginyl aminopeptidase (aminopeptidase B) (Rnpep), transcript variant 1, mRNA [NM_145417]	-0.28	0.024	0.327	-0.49	0.025	0.463
Gnb5	NM_010313	ref Mus musculus guanine nucleotide binding protein (G protein), beta 5 (Gnb5), transcript variant 1, mRNA [NM_010313]	-0.28	0.024	0.328	-0.35	0.034	0.493
Ankrd37	NM_001039562	ref Mus musculus ankyrin repeat domain 37 (Ankrd37), mRNA [NM_001039562]	-0.37	0.024	0.328	-0.55	0.043	0.509
Ppfia4	NM_001144855	ref Mus musculus protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 4 (Ppfia4), mRNA [NM_001144855]	-0.49	0.024	0.328	-0.42	0.031	0.483
Eaf1	NM_028932	ref Mus musculus ELL associated factor 1 (Eaf1), mRNA [NM_028932]	-0.27	0.025	0.330	-0.28	0.036	0.495
Rcn2	NM_011992	ref Mus musculus reticulocalbin 2 (Rcn2), mRNA [NM_011992]	-0.23	0.025	0.330	-0.25	0.023	0.453
Slc9a3	AK033564	gb Mus musculus adult male colon cDNA, RIKEN full-length enriched library, clone:9030624O13 product:SODIUM/HYDROGEN EXCHANGER 3 (NA(+)/H(+) EXCHANGER 3) (NHE-3) homolog [Rattus norvegicus], full insert sequence. [AK033564]	-0.54	0.025	0.330	-0.57	0.013	0.412
chr9:96664617- 96683617_R	chr9:96664617- 96683617_R	lincRNA:chr9:96664617-96683617 reverse strand	-0.24	0.025	0.330	-0.33	0.029	0.477
Mrps2	NM_080452	ref Mus musculus mitochondrial ribosomal protein S2 (Mrps2), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_080452]	-0.25	0.025	0.330	-0.26	0.039	0.501
Gmppb	NM_177910	ref Mus musculus GDP-mannose pyrophosphorylase B (Gmppb), mRNA [NM_177910]	-0.32	0.025	0.331	-0.44	0.020	0.441

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Asb12	NM_080858	ref Mus musculus ankyrin repeat and SOCS box-containing 12 (Asb12), mRNA [NM_080858]	-0.77	0.025	0.331	-0.38	0.043	0.510
chr8:49237358-49246495_F	chr8:49237358-49246495_F	lincRNA:chr8:49237358-49246495 forward strand	-0.61	0.025	0.332	-1.01	0.010	0.404
S1pr3	NM_010101	ref Mus musculus sphingosine-1-phosphate receptor 3 (S1pr3), mRNA [NM_010101]	-0.33	0.025	0.332	-0.48	0.048	0.517
ENSMUST00000087056	ENSMUST00000087056	ens spermatogenesis associated, serine-rich 1 Gene [Source:MGI Symbol;Acc:MGI:1918270] [ENSMUST00000087056]	-0.49	0.025	0.332	-0.74	0.005	0.341
chr6:11994002-11997859_F	chr6:11994002-11997859_F	lincRNA:chr6:11994002-11997859 forward strand	-0.30	0.025	0.332	-0.30	0.034	0.493
Pla2g2d	NM_011109	ref Mus musculus phospholipase A2, group IID (Pla2g2d), mRNA [NM_011109]	-0.84	0.025	0.332	-0.94	0.011	0.407
chr17:8719950-8783850_F	chr17:8719950-8783850_F	lincRNA:chr17:8719950-8783850 forward strand	-0.30	0.025	0.332	-0.45	0.021	0.448
Srrm3	NM_021403	ref Mus musculus serine/arginine repetitive matrix 3 (Srrm3), mRNA [NM_021403]	-0.40	0.025	0.332	-0.36	0.028	0.474
Hspe1	NM_008303	ref Mus musculus heat shock protein 1 (chaperonin 10) (Hspe1), mRNA [NM_008303]	-0.22	0.025	0.332	-0.37	0.003	0.281
Cd83	NM_009856	ref Mus musculus CD83 antigen (Cd83), mRNA [NM_009856]	-0.47	0.025	0.334	-0.81	0.025	0.467
Nr2f6	NM_010150	ref Mus musculus nuclear receptor subfamily 2, group F, member 6 (Nr2f6), mRNA [NM_010150]	-0.24	0.025	0.334	-0.20	0.040	0.502
D3Ert751e	NM_027271	ref Mus musculus DNA segment, Chr 3, ERATO Doi 751, expressed (D3Ert751e), transcript variant 3, mRNA [NM_027271]	-0.43	0.026	0.335	-0.46	0.009	0.398
Gabrg3	NM_008074	ref Mus musculus gamma-aminobutyric acid (GABA) A receptor, subunit gamma 3 (Gabrg3), mRNA [NM_008074]	-0.46	0.026	0.335	-0.33	0.050	0.520
chr12:85210777-85262127_F	chr12:85210777-85262127_F	lincRNA:chr12:85210777-85262127 forward strand	-0.35	0.026	0.335	-0.76	0.001	0.177
Gbp9	NM_172777	ref Mus musculus guanylate-binding protein 9 (Gbp9), mRNA [NM_172777]	-0.47	0.026	0.337	-0.61	0.042	0.507

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Slc26a10	NM_177615	ref[Mus musculus solute carrier family 26, member 10 (Slc26a10), mRNA [NM_177615]	-0.39	0.026	0.338	-0.44	0.046	0.513
Gm1833	XM_129965	ref[PREDICTED: Mus musculus gene model 1833, (NCBI) (Gm1833), mRNA [XM_129965]	-0.29	0.026	0.339	-0.28	0.018	0.436
Lce1i	NM_029667	ref[Mus musculus late cornified envelope 1l (Lce1i), mRNA [NM_029667]	-0.62	0.026	0.340	-0.58	0.040	0.504
Cstf1	ENSMUST00000116375	ens[cleavage stimulation factor, 3' pre-RNA, subunit 1 Gene [Source:MGI (curated);Acc:MGI:1914587] [ENSMUST00000116375]	-0.26	0.026	0.340	-0.34	0.046	0.513
Gm12216	NR_033332	ref[Mus musculus predicted gene 12216 (Gm12216), non-coding RNA [NR_033332]	-0.59	0.027	0.342	-0.43	0.047	0.516
Gm4979	NM_001142411	ref[Mus musculus predicted gene 4979 (Gm4979), mRNA [NM_001142411]	-0.44	0.027	0.342	-0.57	0.021	0.450
A730056A06Rik	AK053954	gb[Mus musculus 2 days pregnant adult female oviduct cDNA, RIKEN full-length enriched library, clone:E230007B11 product:unclassifiable, full insert sequence. [AK053954]	-0.47	0.027	0.342	-0.46	0.006	0.356
Med20	NM_020048	ref[Mus musculus mediator complex subunit 20 (Med20), mRNA [NM_020048]	-0.26	0.027	0.343	-0.31	0.042	0.508
Nrg4	NM_032002	ref[Mus musculus neuregulin 4 (Nrg4), mRNA [NM_032002]	-0.74	0.027	0.343	-0.86	0.014	0.414
Cmtm5	NM_026066	ref[Mus musculus CKLF-like MARVEL transmembrane domain containing 5 (Cmtm5), mRNA [NM_026066]	-0.35	0.027	0.344	-0.42	0.013	0.412
Slfn1	NM_011407	ref[Mus musculus schlafen 1 (Slfn1), mRNA [NM_011407]	-0.83	0.027	0.344	-0.46	0.016	0.426
ENSMUST00000109220	ENSMUST00000109220	ens[sarcoglycan, delta (dystrophin-associated glycoprotein) Gene [Source:MGI (curated);Acc:MGI:1346525] [ENSMUST00000109220]	-0.86	0.027	0.344	-0.92	0.002	0.251
Copz2	NM_019877	ref[Mus musculus coatomer protein complex, subunit zeta 2 (Copz2), mRNA [NM_019877]	-0.21	0.027	0.345	-0.37	0.008	0.391
Msl3	NM_010832	ref[Mus musculus male-specific lethal 3 homolog (Drosophila) (Msl3), mRNA [NM_010832]	-0.24	0.027	0.346	-0.32	0.022	0.452
chr10:120336296-120354471_F	chr10:120336296-120354471_F	lincRNA:chr10:120336296-120354471 forward strand	-0.27	0.027	0.346	-0.36	0.046	0.513

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Mrps33	NM_010270	ref Mus musculus mitochondrial ribosomal protein S33 (Mrps33), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_010270]	-0.62	0.027	0.347	-0.25	0.032	0.483
ENSMUST00000122210	ENSMUST00000122210	ens profilin 2 Gene [Source:MGI (curated);Acc:MGI:97550] [ENSMUST00000122210]	-0.26	0.027	0.347	-0.36	0.045	0.513
LOC100048608	XM_001480368	ref PREDICTED: Mus musculus hypothetical protein LOC100048608 (LOC100048608), mRNA [XM_001480368]	-0.38	0.027	0.348	-0.86	0.040	0.501
Trip12	NM_133975	ref Mus musculus thyroid hormone receptor interactor 12 (Trip12), mRNA [NM_133975]	-0.26	0.027	0.348	-0.34	0.009	0.394
chr13:74712805-74729233_R	chr13:74712805-74729233_R	lincRNA:chr13:74712805-74729233 reverse strand	-0.41	0.028	0.348	-0.75	0.013	0.412
LOC100047464	XM_001478202	ref PREDICTED: Mus musculus hypothetical protein LOC100047464 (LOC100047464), mRNA [XM_001478202]	-0.56	0.028	0.348	-0.48	0.032	0.484
chr14:103751075-103769725_R	chr14:103751075-103769725_R	lincRNA:chr14:103751075-103769725 reverse strand	-0.64	0.028	0.348	-0.47	0.006	0.366
1600014C10Rik	NM_028166	ref Mus musculus RIKEN cDNA 1600014C10 gene (1600014C10Rik), transcript variant 2, mRNA [NM_028166]	-0.53	0.028	0.348	-0.42	0.049	0.519
chr7:91558475-91733625_F	chr7:91558475-91733625_F	lincRNA:chr7:91558475-91733625 forward strand	-0.38	0.028	0.349	-0.50	0.013	0.412
Haus8	NM_001163042	ref Mus musculus 4HAUS augmin-like complex, subunit 8 (Haus8), transcript variant 1, mRNA [NM_001163042]	-0.36	0.028	0.349	-0.49	0.028	0.476
Chst7	NM_021715	ref Mus musculus carbohydrate (N-acetylglucosamino) sulfotransferase 7 (Chst7), mRNA [NM_021715]	-0.71	0.028	0.350	-0.61	0.008	0.388
Zfp81	ENSMUST00000054072	ens zinc finger protein 81 Gene [Source:MGI (curated);Acc:MGI:1890752] [ENSMUST00000054072]	-0.25	0.028	0.350	-0.32	0.029	0.477
Olfir97	NM_146512	ref Mus musculus olfactory receptor 97 (Olfir97), mRNA [NM_146512]	-0.29	0.028	0.351	-0.31	0.027	0.471
4930444A02Rik	NM_029037	ref Mus musculus RIKEN cDNA 4930444A02 gene (4930444A02Rik), mRNA [NM_029037]	-0.38	0.028	0.351	-0.45	0.045	0.513

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Sfrs17b	NM_001081956	ref Mus musculus splicing factor, arginine/serine-rich 17b (Sfrs17b), mRNA [NM_001081956]	-0.48	0.028	0.352	-0.46	0.029	0.477
Wars2	NM_027462	ref Mus musculus tryptophanyl tRNA synthetase 2 (mitochondrial) (Wars2), nuclear gene encoding mitochondrial protein, mRNA [NM_027462]	-0.26	0.028	0.353	-0.36	0.023	0.453
Mrpl24	NM_026591	ref Mus musculus mitochondrial ribosomal protein L24 (Mrpl24), nuclear gene encoding mitochondrial protein, mRNA [NM_026591]	-0.22	0.028	0.353	-0.28	0.014	0.416
Tex15	NM_031374	ref Mus musculus testis expressed gene 15 (Tex15), mRNA [NM_031374]	-0.70	0.028	0.353	-0.46	0.036	0.495
Mrpl51	NM_025595	ref Mus musculus mitochondrial ribosomal protein L51 (Mrpl51), nuclear gene encoding mitochondrial protein, mRNA [NM_025595]	-0.23	0.028	0.353	-0.23	0.018	0.435
9330102E08Rik	AK033854	gb Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched library, clone:9330102E08 product:unclassifiable, full insert sequence. [AK033854]	-0.32	0.029	0.354	-0.50	0.050	0.520
Ephb1	NM_173447	ref Mus musculus Eph receptor B1 (Ephb1), transcript variant 1, mRNA [NM_173447]	-0.62	0.029	0.354	-0.59	0.036	0.495
chr5:123439974-123448354_F	chr5:123439974-123448354_F	lincRNA:chr5:123439974-123448354 forward strand	-0.22	0.029	0.354	-0.74	0.001	0.210
Uqcc	NM_018888	ref Mus musculus ubiquinol-cytochrome c reductase complex chaperone, CBP3 homolog (yeast) (Uqcc), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_018888]	-0.27	0.029	0.356	-0.29	0.033	0.490
Fam43b	NM_001081672	ref Mus musculus family with sequence similarity 43, member B (Fam43b), mRNA [NM_001081672]	-0.69	0.029	0.357	-0.70	0.008	0.391
Klrd1	NM_010654	ref Mus musculus killer cell lectin-like receptor, subfamily D, member 1 (Klrd1), mRNA [NM_010654]	-0.40	0.029	0.357	-0.50	0.029	0.477
5830458C19Rik	AK018020	gb Mus musculus adult male thymus cDNA, RIKEN full-length enriched library, clone:5830458C19 product:unclassifiable, full insert sequence. [AK018020]	-0.37	0.029	0.357	-0.42	0.013	0.412
Ccdc61	NM_001033314	ref Mus musculus coiled-coil domain containing 61 (Ccdc61), mRNA [NM_001033314]	-0.23	0.029	0.358	-0.37	0.026	0.467

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Aarsd1	NM_144829	ref Mus musculus alanyl-tRNA synthetase domain containing 1 (Aarsd1), mRNA [NM_144829]	-0.49	0.029	0.358	-0.28	0.023	0.453
Gm572	NM_001085505	ref Mus musculus predicted gene 572 (Gm572), mRNA [NM_001085505]	-0.33	0.029	0.358	-0.45	0.040	0.504
Olf851	NM_146905	ref Mus musculus olfactory receptor 851 (Olf851), mRNA [NM_146905]	-0.54	0.030	0.360	-0.60	0.037	0.498
Rpusd3	NM_001033204	ref Mus musculus RNA pseudouridylate synthase domain containing 3 (Rpusd3), mRNA [NM_001033204]	-0.25	0.030	0.363	-0.23	0.033	0.487
Ppm1h	NM_001110218	ref Mus musculus protein phosphatase 1H (PP2C domain containing) (Ppm1h), transcript variant 1, mRNA [NM_001110218]	-0.27	0.030	0.363	-0.40	0.041	0.506
Uty	NM_009484	ref Mus musculus ubiquitously transcribed tetratricopeptide repeat gene, Y chromosome (Uty), mRNA [NM_009484]	-0.25	0.030	0.364	-0.32	0.034	0.491
Traip	NM_011634	ref Mus musculus TRAF-interacting protein (Traip), mRNA [NM_011634]	-0.34	0.030	0.365	-0.44	0.012	0.408
chr2:25782483-25783075_R	chr2:25782483-25783075_R	lincRNA:chr2:25782483-25783075 reverse strand	-0.23	0.030	0.365	-0.29	0.039	0.501
Eml1	NM_001043335	ref Mus musculus echinoderm microtubule associated protein like 1 (Eml1), transcript variant 1, mRNA [NM_001043335]	-0.33	0.030	0.365	-0.34	0.047	0.515
ENSMUST00000064920	ENSMUST00000064920	ens RAR-related orphan receptor alpha Gene [Source:MGI (curated);Acc:MGI:104661] [ENSMUST00000064920]	-0.40	0.030	0.365	-0.37	0.013	0.412
ENSMUST00000089895	ENSMUST00000089895	ens RIKEN cDNA B630019A10 gene Gene [Source:MGI Symbol;Acc:MGI:2443371] [ENSMUST00000089895]	-0.50	0.030	0.365	-0.53	0.021	0.449
Apc2	NM_011789	ref Mus musculus adenomatosis polyposis coli 2 (Apc2), mRNA [NM_011789]	-0.37	0.031	0.366	-0.42	0.032	0.485
H2-T24	NM_008207	ref Mus musculus histocompatibility 2, T region locus 24 (H2-T24), mRNA [NM_008207]	-0.40	0.031	0.367	-0.45	0.016	0.428
D630033O11Rik	XM_001001707	ref PREDICTED: Mus musculus RIKEN cDNA D630033O11 gene (D630033O11Rik), mRNA [XM_001001707]	-0.67	0.031	0.367	-0.52	0.029	0.477

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Gm1409	ENSMUST00000103370	ref PREDICTED: Mus musculus similar to Ig kappa chain V-V region L7 precursor (LOC620017), mRNA [XM_357633]	-0.32	0.031	0.368	-0.46	0.040	0.501
Ankrd32	NM_134071	ref Mus musculus ankyrin repeat domain 32 (Ankrd32), mRNA [NM_134071]	-0.34	0.031	0.368	-0.34	0.038	0.499
chr10:83181374-83249918_F	chr10:83181374-83249918_F	lincRNA:chr10:83181374-83249918 forward strand	-0.35	0.031	0.368	-0.32	0.043	0.510
chr5:67854954-67869163_F	chr5:67854954-67869163_F	lincRNA:chr5:67854954-67869163 forward strand	-0.44	0.031	0.368	-0.39	0.014	0.412
Nckap5	NM_172484	ref Mus musculus NCK-associated protein 5 (Nckap5), transcript variant 2, mRNA [NM_172484]	-0.39	0.031	0.369	-0.44	0.008	0.391
Zfp273	NM_198322	ref Mus musculus zinc finger protein 273 (Zfp273), mRNA [NM_198322]	-0.28	0.031	0.370	-0.38	0.028	0.474
chr4:101010948-101032148_F	chr4:101010948-101032148_F	lincRNA:chr4:101010948-101032148 forward strand	-0.47	0.031	0.371	-0.47	0.012	0.409
S100b	NM_009115	ref Mus musculus S100 protein, beta polypeptide, neural (S100b), mRNA [NM_009115]	-0.41	0.031	0.371	-0.57	0.042	0.508
Timeless	NM_001164081	ref Mus musculus timeless homolog (Drosophila) (Timeless), transcript variant 4, mRNA [NM_001164081]	-0.41	0.032	0.372	-0.70	0.039	0.501
Lpcat1	NM_145376	ref Mus musculus lysophosphatidylcholine acyltransferase 1 (Lpcat1), mRNA [NM_145376]	-0.37	0.032	0.372	-0.40	0.019	0.439
ENSMUST00000108336	ENSMUST00000108336	ens zinc finger protein 60 Gene [Source:MGI (curated);Acc:MGI:99207] [ENSMUST00000108336]	-0.42	0.032	0.372	-0.55	0.037	0.496
Katnal1	NM_153572	ref Mus musculus katanin p60 subunit A-like 1 (Katnal1), mRNA [NM_153572]	-0.26	0.032	0.372	-0.29	0.045	0.513
BY080835	NM_001081244	ref Mus musculus cDNA sequence BY080835 (BY080835), mRNA [NM_001081244]	-0.30	0.032	0.372	-0.51	0.043	0.509
Gm5148	NM_198657	ref Mus musculus predicted gene 5148 (Gm5148), mRNA [NM_198657]	-0.85	0.032	0.372	-0.68	0.047	0.515
Dtwd2	NM_026854	ref Mus musculus DTW domain containing 2 (Dtwd2), transcript variant 1, mRNA [NM_026854]	-0.43	0.032	0.373	-0.49	0.014	0.414

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Ptcd2	NM_026873	ref Mus musculus pentatricopeptide repeat domain 2 (Ptcd2), mRNA [NM_026873]	-0.30	0.032	0.373	-0.25	0.043	0.509
chr1:175705225-175717250_R	chr1:175705225-175717250_R	lincRNA:chr1:175705225-175717250 reverse strand	-0.50	0.032	0.373	-0.69	0.040	0.504
Pafah2	NM_133880	ref Mus musculus platelet-activating factor acetylhydrolase 2 (Pafah2), mRNA [NM_133880]	-0.35	0.032	0.374	-0.40	0.027	0.472
Fhit	NM_010210	ref Mus musculus fragile histidine triad gene (Fhit), mRNA [NM_010210]	-0.32	0.032	0.374	-0.22	0.047	0.515
Gm5813	XM_619437	ref PREDICTED: Mus musculus predicted gene, EG545190, transcript variant 1 (EG545190), mRNA [XM_619437]	-0.45	0.032	0.374	-0.75	0.017	0.429
chr13:98479793-98481177_R	chr13:98479793-98481177_R	lincRNA:chr13:98479793-98481177 reverse strand	-0.37	0.032	0.374	-0.78	0.001	0.248
Mme	NM_008604	ref Mus musculus membrane metallo endopeptidase (Mme), mRNA [NM_008604]	-0.23	0.032	0.374	-0.31	0.043	0.509
ENSMUST00000109791	ENSMUST00000109791	gb Mus musculus 13 days embryo liver cDNA, RIKEN full-length enriched library, clone:2500004C02 product:unclassifiable, full insert sequence. [AK010870]	-0.42	0.032	0.374	-0.51	0.037	0.496
9430041J12Rik	AK051461	gb Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched library, clone:D130050D15 product:unclassifiable, full insert sequence. [AK051461]	-0.46	0.032	0.374	-0.40	0.040	0.504
Pltp	NM_011125	ref Mus musculus phospholipid transfer protein (Pltp), mRNA [NM_011125]	-0.35	0.032	0.374	-0.54	0.003	0.281
ENSMUST00000091745	ENSMUST00000091745	ens Histone H2A type 1-H [Source:UniProtKB/Swiss-Prot;Acc:Q8CGP6] [ENSMUST00000091745]	-0.77	0.032	0.375	-1.26	0.047	0.515
Gpr162	NM_013533	ref Mus musculus G protein-coupled receptor 162 (Gpr162), mRNA [NM_013533]	-0.46	0.032	0.375	-0.33	0.029	0.477
Rasgrp3	NM_207246	ref Mus musculus RAS, guanyl releasing protein 3 (Rasgrp3), transcript variant 2, mRNA [NM_207246]	-0.41	0.032	0.375	-0.61	0.043	0.509
Rpp21	NM_026308	ref Mus musculus ribonuclease P 21 subunit (human) (Rpp21), mRNA [NM_026308]	-0.19	0.032	0.375	-0.26	0.035	0.495
chr13:15947521-15999246_F	chr13:15947521-15999246_F	lincRNA:chr13:15947521-15999246 forward strand	-0.33	0.033	0.376	-0.39	0.027	0.471

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr17:79959134-79972206_F	chr17:79959134-79972206_F	lincRNA:chr17:79959134-79972206 forward strand	-0.37	0.033	0.376	-0.41	0.030	0.479
Rgs21	XM_889451	ref PREDICTED: Mus musculus regulator of G-protein signalling 21 (Rgs21), mRNA [XM_889451]	-0.50	0.033	0.376	-0.53	0.030	0.479
D0H4S114	NM_053078	ref Mus musculus DNA segment, human D4S114 (D0H4S114), transcript variant 1, mRNA [NM_053078]	-0.93	0.033	0.376	-1.20	0.018	0.435
Pom121l2	NM_001162929	ref Mus musculus POM121 membrane glycoprotein-like 2 (rat) (Pom121l2), transcript variant 2, mRNA [NM_001162929]	-0.61	0.033	0.377	-0.46	0.022	0.450
Use1	NM_001145780	ref Mus musculus unconventional SNARE in the ER 1 homolog (S. cerevisiae) (Use1), transcript variant 3, mRNA [NM_001145780]	-0.32	0.033	0.377	-0.28	0.020	0.443
Akap3	NM_009650	ref Mus musculus A kinase (PRKA) anchor protein 3 (Akap3), mRNA [NM_009650]	-0.51	0.033	0.377	-0.38	0.047	0.515
Ddah1	NM_026993	ref Mus musculus dimethylarginine dimethylaminohydrolase 1 (Ddah1), mRNA [NM_026993]	-0.40	0.033	0.379	-0.41	0.017	0.433
AU040320	NM_133886	ref Mus musculus expressed sequence AU040320 (AU040320), transcript variant 3, mRNA [NM_133886]	-0.19	0.033	0.380	-0.20	0.049	0.518
chr8:40238025-40264250_R	chr8:40238025-40264250_R	lincRNA:chr8:40238025-40264250 reverse strand	-0.30	0.033	0.380	-0.47	0.030	0.477
ENSMUST00000110657	ENSMUST00000110657	ens tubulin, gamma complex associated protein 4 Gene [Source:MGI (curated);Acc:MGI:1196293] [ENSMUST00000110657]	-0.73	0.034	0.380	-0.27	0.049	0.519
chrX:137519350-137534325_R	chrX:137519350-137534325_R	lincRNA:chrX:137519350-137534325 reverse strand	-0.50	0.034	0.382	-0.47	0.049	0.519
Gm6878	NM_001037931	ref Mus musculus predicted gene 6878 (Gm6878), mRNA [NM_001037931]	-0.49	0.034	0.383	-0.95	0.003	0.299
1810014F10Rik	NM_026928	ref Mus musculus RIKEN cDNA 1810014F10 gene (1810014F10Rik), mRNA [NM_026928]	-0.22	0.034	0.383	-0.25	0.033	0.490
Scrn2	NM_146027	ref Mus musculus secemin 2 (Scrn2), mRNA [NM_146027]	-0.25	0.034	0.383	-0.42	0.033	0.488
Shc3	NM_009167	ref Mus musculus src homology 2 domain-containing transforming protein C3 (Shc3), mRNA [NM_009167]	-0.33	0.034	0.383	-0.38	0.019	0.439

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr4:126009815-126015875_F	chr4:126009815-126015875_F	lincRNA:chr4:126009815-126015875 forward strand	-0.23	0.034	0.383	-0.33	0.017	0.432
Magt1	NM_025952	ref Mus musculus magnesium transporter 1 (Magt1), transcript variant 2, mRNA [NM_025952]	-0.33	0.034	0.385	-0.40	0.006	0.358
Neurod4	NM_007501	ref Mus musculus neurogenic differentiation 4 (Neurod4), mRNA [NM_007501]	-0.44	0.035	0.387	-0.69	0.020	0.443
1700023I07Rik	NR_033731	ref Mus musculus RIKEN cDNA 1700023I07 gene (1700023I07Rik), non-coding RNA [NR_033731]	-0.42	0.035	0.387	-0.48	0.034	0.493
Efna2	NM_007909	ref Mus musculus ephrin A2 (Efna2), mRNA [NM_007909]	-0.42	0.035	0.387	-0.52	0.019	0.437
ENSMUST00000093859	ENSMUST00000093859	ens glutamate receptor ionotropic, NMDA3A Gene [Source:MGI (curated);Acc:MGI:1933206] [ENSMUST00000093859]	-0.50	0.035	0.387	-0.37	0.018	0.437
chr19:23068397-23190256_R	chr19:23068397-23190256_R	lincRNA:chr19:23068397-23190256 reverse strand	-0.34	0.035	0.388	-0.71	0.001	0.246
ENSMUST00000103299	ENSMUST00000103299	ens T-cell receptor beta, variable 13 Gene [Source:MGI Symbol;Acc:MGI:98587] [ENSMUST00000103299]	-0.63	0.035	0.388	-0.67	0.039	0.500
Hspe1	NM_008303	ref Mus musculus heat shock protein 1 (chaperonin 10) (Hspe1), mRNA [NM_008303]	-0.22	0.035	0.389	-0.34	0.025	0.464
Nepn	NM_025684	ref Mus musculus nephrocan (Nepn), mRNA [NM_025684]	-0.55	0.035	0.390	-0.69	0.038	0.499
Tbc1d7	NM_025935	ref Mus musculus TBC1 domain family, member 7 (Tbc1d7), mRNA [NM_025935]	-0.20	0.035	0.390	-0.29	0.033	0.490
chr1:58443698-58449898_F	chr1:58443698-58449898_F	lincRNA:chr1:58443698-58449898 forward strand	-0.28	0.035	0.391	-0.46	0.028	0.474
chr13:28952570-28953234_R	chr13:28952570-28953234_R	lincRNA:chr13:28952570-28953234 reverse strand	-0.39	0.035	0.391	-0.51	0.008	0.390
chr12:117623500-117643575_F	chr12:117623500-117643575_F	lincRNA:chr12:117623500-117643575 forward strand	-0.38	0.036	0.391	-0.48	0.004	0.308
Kif6	NM_177052	ref Mus musculus kinesin family member 6 (Kif6), mRNA [NM_177052]	-0.50	0.036	0.392	-0.53	0.005	0.340

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Olfr483	NM_146735	ref Mus musculus olfactory receptor 483 (Olfr483), mRNA [NM_146735]	-0.41	0.036	0.392	-0.31	0.044	0.512
Abhd10	NM_172511	ref Mus musculus abhydrolase domain containing 10 (Abhd10), mRNA [NM_172511]	-0.30	0.036	0.393	-0.26	0.044	0.511
Ifi203	NM_001045481	ref Mus musculus interferon activated gene 203 (Ifi203), transcript variant 1, mRNA [NM_001045481]	-0.51	0.036	0.393	-0.76	0.038	0.499
Phb	NM_008831	ref Mus musculus prohibitin (Phb), mRNA [NM_008831]	-0.26	0.036	0.395	-0.25	0.039	0.501
Pramel3	NM_031390	ref Mus musculus preferentially expressed antigen in melanoma-like 3 (Pramel3), mRNA [NM_031390]	-0.69	0.036	0.395	-0.80	0.005	0.349
Tmem143	NM_144801	ref Mus musculus transmembrane protein 143 (Tmem143), mRNA [NM_144801]	-0.25	0.036	0.395	-0.25	0.034	0.493
Asxl3	NM_001167777	ref Mus musculus additional sex combs like 3 (Drosophila) (Asxl3), mRNA [NM_001167777]	-0.51	0.036	0.395	-0.55	0.046	0.513
Mapk9	NM_001163672	ref Mus musculus mitogen-activated protein kinase 9 (Mapk9), transcript variant alpha1, mRNA [NM_001163672]	-0.20	0.036	0.395	-0.32	0.011	0.407
Il17rb	NM_019583	ref Mus musculus interleukin 17 receptor B (Il17rb), mRNA [NM_019583]	-0.35	0.036	0.395	-0.51	0.008	0.391
Gm4121	XM_001472111	ref PREDICTED: Mus musculus hypothetical protein LOC100044458 (LOC100044458), mRNA [XM_001472111]	-0.35	0.037	0.396	-0.43	0.006	0.369
AU022096	BG068135	gb H3062B06-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3062B06 3', mRNA sequence [BG068135]	-0.52	0.037	0.397	-0.61	0.024	0.458
Sema6a	NM_018744	ref Mus musculus sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (Sema6a), mRNA [NM_018744]	-0.38	0.037	0.398	-0.35	0.037	0.497
Samd5	NM_177271	ref Mus musculus sterile alpha motif domain containing 5 (Samd5), mRNA [NM_177271]	-0.51	0.037	0.398	-0.66	0.010	0.400
chr9:36509939-36515389_F	chr9:36509939-36515389_F	lincRNA:chr9:36509939-36515389 forward strand	-0.50	0.037	0.398	-0.34	0.036	0.495
Prnp	NM_028243	ref Mus musculus prolylcarboxypeptidase (angiotensinase C) (Prnp), mRNA [NM_028243]	-0.50	0.037	0.400	-0.39	0.047	0.515

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
chr13:54399275-54445825_F	chr13:54399275-54445825_F	lincRNA:chr13:54399275-54445825 forward strand	-0.25	0.037	0.401	-0.42	0.006	0.366
Foxred1	NM_172291	ref Mus musculus FAD-dependent oxidoreductase domain containing 1 (Foxred1), mRNA [NM_172291]	-0.23	0.038	0.402	-0.25	0.010	0.401
Yipf6	NM_207633	ref Mus musculus Yip1 domain family, member 6 (Yipf6), mRNA [NM_207633]	-0.32	0.038	0.402	-0.43	0.046	0.513
Ipcef1	NM_001170800	ref Mus musculus interaction protein for cytohesin exchange factors 1 (Ipcef1), transcript variant 1, mRNA [NM_001170800]	-0.38	0.038	0.402	-0.62	0.003	0.283
Mmachc	NM_025962	ref Mus musculus methylmalonic aciduria cblC type, with homocystinuria (Mmachc), mRNA [NM_025962]	-0.33	0.038	0.402	-0.47	0.017	0.433
2610204G22Rik	NR_027971	ref Mus musculus RIKEN cDNA 2610204G22 gene (2610204G22Rik), transcript variant 1, non-coding RNA [NR_027971]	-0.53	0.038	0.404	-0.57	0.025	0.464
ENSMUST00000043710	ENSMUST00000043710	ens ecotropic viral integration site 5 like Gene [Source:MGI Symbol;Acc:MGI:2442167] [ENSMUST00000043710]	-0.28	0.038	0.404	-0.28	0.050	0.520
Ifi203	NM_001045481	ref Mus musculus interferon activated gene 203 (Ifi203), transcript variant 1, mRNA [NM_001045481]	-0.47	0.038	0.404	-0.69	0.025	0.464
Coro2a	NM_178893	ref Mus musculus coronin, actin binding protein 2A (Coro2a), transcript variant 1, mRNA [NM_178893]	-0.32	0.038	0.404	-0.52	0.005	0.339
Rcbtb2	NM_134083	ref Mus musculus regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 2 (Rcbtb2), transcript variant 2, mRNA [NM_134083]	-0.24	0.038	0.404	-0.34	0.023	0.453
Akr1e1	NM_018859	ref Mus musculus aldo-keto reductase family 1, member E1 (Akr1e1), mRNA [NM_018859]	-0.24	0.038	0.405	-0.35	0.030	0.479
Xkrx	NM_183319	ref Mus musculus X Kell blood group precursor related X linked (Xkrx), mRNA [NM_183319]	-0.49	0.038	0.405	-0.47	0.018	0.436
Afg3l1	NM_054070	ref Mus musculus AFG3(ATPase family gene 3)-like 1 (yeast) (Afg3l1), transcript variant 1, mRNA [NM_054070]	-0.22	0.038	0.405	-0.22	0.043	0.511
Prl7a1	NM_001164058	ref Mus musculus prolactin family 7, subfamily a, member 1 (Prl7a1), transcript variant 1, mRNA [NM_001164058]	-0.43	0.038	0.405	-0.53	0.012	0.412

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
4930545E07Rik	BY715633	gb BY715633 RIKEN full-length enriched, adult male testis Mus musculus cDNA clone 4930545E07 5'. [BY715633]	-0.60	0.038	0.405	-0.66	0.043	0.511
Gca	NM_145523	ref Mus musculus grancalcin (Gca), mRNA [NM_145523]	-0.29	0.038	0.406	-0.25	0.031	0.482
Dera	NM_172733	ref Mus musculus 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) (Dera), mRNA [NM_172733]	-0.41	0.038	0.407	-0.55	0.001	0.203
Ndufb5	NM_025316	ref Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5 (Ndufb5), nuclear gene encoding mitochondrial protein, mRNA [NM_025316]	-0.22	0.039	0.409	-0.24	0.042	0.508
Ndufv2	NM_028388	ref Mus musculus NADH dehydrogenase (ubiquinone) flavoprotein 2 (Ndufv2), nuclear gene encoding mitochondrial protein, mRNA [NM_028388]	-0.20	0.039	0.409	-0.29	0.020	0.441
chr10:97196521-97207471_R	chr10:97196521-97207471_R	lincRNA:chr10:97196521-97207471 reverse strand	-0.33	0.039	0.409	-0.35	0.008	0.391
chr12:33808493-33829143_F	chr12:33808493-33829143_F	lincRNA:chr12:33808493-33829143 forward strand	-0.58	0.039	0.409	-0.71	0.041	0.506
Qrs1	NM_001081054	ref Mus musculus glutamyl-tRNA synthase (glutamine-hydrolyzing)-like 1 (Qrs1), mRNA [NM_001081054]	-0.43	0.039	0.409	-0.41	0.043	0.511
chrX:47893703-47996700_R	chrX:47893703-47996700_R	lincRNA:chrX:47893703-47996700 reverse strand	-0.68	0.039	0.412	-0.86	0.005	0.346
chr8:85609155-85615170_F	chr8:85609155-85615170_F	lincRNA:chr8:85609155-85615170 forward strand	-0.49	0.039	0.412	-0.30	0.041	0.505
Hspa12a	NM_175199	ref Mus musculus heat shock protein 12A (Hspa12a), mRNA [NM_175199]	-0.66	0.039	0.412	-0.62	0.027	0.472
Cxxc4	NM_001004367	ref Mus musculus CXXC finger 4 (Cxxc4), mRNA [NM_001004367]	-0.46	0.039	0.412	-0.47	0.031	0.482
Stxbp6	NM_144552	ref Mus musculus syntaxin binding protein 6 (amisyn) (Stxbp6), mRNA [NM_144552]	-0.33	0.039	0.412	-0.39	0.005	0.353
chr14:77006215-77063293_F	chr14:77006215-77063293_F	lincRNA:chr14:77006215-77063293 forward strand	-0.38	0.040	0.413	-0.57	0.048	0.518
Bend4	NM_001164806	ref Mus musculus BEN domain containing 4 (Bend4), mRNA [NM_001164806]	-0.44	0.040	0.414	-0.32	0.026	0.471

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con-STZ	P-value	Adj. P-value	logFC mG4H-STZ	P-value	Adj. P-value
4930452B06Rik	NM_028934	ref Mus musculus RIKEN cDNA 4930452B06 gene (4930452B06Rik), mRNA [NM_028934]	-0.70	0.040	0.414	-0.62	0.012	0.407
chr16:40307931-40318856_R	chr16:40307931-40318856_R	lincRNA:chr16:40307931-40318856 reverse strand	-0.49	0.040	0.414	-0.67	0.036	0.495
Gm7921	XM_981456	ref PREDICTED: Mus musculus predicted gene, EG666080 (EG666080), mRNA [XM_981456]	-0.51	0.040	0.414	-0.54	0.043	0.511
Sh3bgr	NM_015825	ref Mus musculus SH3-binding domain glutamic acid-rich protein (Sh3bgr), mRNA [NM_015825]	-0.32	0.040	0.415	-0.31	0.014	0.418
Itgb6	NM_021359	ref Mus musculus integrin beta 6 (Itgb6), transcript variant 2, mRNA [NM_021359]	-0.65	0.040	0.415	-0.47	0.009	0.397
chr13:74568375-74601000_R	chr13:74568375-74601000_R	lincRNA:chr13:74568375-74601000 reverse strand	-0.42	0.040	0.415	-0.47	0.010	0.403
Coq5	NM_026504	ref Mus musculus coenzyme Q5 homolog, methyltransferase (yeast) (Coq5), nuclear gene encoding mitochondrial protein, mRNA [NM_026504]	-0.28	0.040	0.415	-0.30	0.027	0.472
chr10:66559716-66647841_R	chr10:66559716-66647841_R	lincRNA:chr10:66559716-66647841 reverse strand	-0.52	0.040	0.416	-0.55	0.005	0.349
Trim5	ENSMUST00000098179	ens tripartite motif-containing 5 Gene [Source:MGI Symbol;Acc:MGI:3646853] [ENSMUST00000098179]	-0.34	0.041	0.418	-0.65	0.017	0.433
chr8:82854412-82919089_R	chr8:82854412-82919089_R	lincRNA:chr8:82854412-82919089 reverse strand	-0.32	0.041	0.418	-0.47	0.039	0.501
Gm3181	XM_001476516	ref PREDICTED: Mus musculus hypothetical protein LOC100041175 (LOC100041175), mRNA [XM_001476516]	-0.31	0.041	0.419	-0.28	0.034	0.493
Eml1	NM_001043335	ref Mus musculus echinoderm microtubule associated protein like 1 (Eml1), transcript variant 1, mRNA [NM_001043335]	-0.35	0.041	0.420	-0.39	0.030	0.477
Zdhhc21	NM_026647	ref Mus musculus zinc finger, DHHC domain containing 21 (Zdhhc21), mRNA [NM_026647]	-0.22	0.041	0.422	-0.40	0.041	0.505
Dguok	NM_013764	ref Mus musculus deoxyguanosine kinase (Dguok), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_013764]	-0.21	0.042	0.422	-0.36	0.031	0.482

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Lekr1	NM_001037923	ref Mus musculus leucine, glutamate and lysine rich 1 (Lekr1), transcript variant 2, mRNA [NM_001037923]	-0.37	0.042	0.424	-0.65	0.015	0.423
Trpt1	NM_153597	ref Mus musculus tRNA phosphotransferase 1 (Trpt1), transcript variant 1, mRNA [NM_153597]	-0.27	0.042	0.424	-0.30	0.025	0.467
ENSMUST00000112942	ENSMUST00000112942	ens MTERF domain containing 2 Gene [Source:MGI (curated);Acc:MGI:1918355] [ENSMUST00000112942]	-0.55	0.042	0.424	-0.53	0.018	0.435
chr15:77164450-77201325_F	chr15:77164450-77201325_F	lincRNA:chr15:77164450-77201325 forward strand	-0.34	0.042	0.426	-0.41	0.007	0.377
Tal1	NM_011527	ref Mus musculus T-cell acute lymphocytic leukemia 1 (Tal1), mRNA [NM_011527]	-0.22	0.043	0.427	-0.33	0.010	0.405
chr3:26985397-26986076_F	chr3:26985397-26986076_F	lincRNA:chr3:26985397-26986076 forward strand	-0.45	0.043	0.427	-0.57	0.027	0.472
Gm16387	NM_001024727	ref Mus musculus predicted gene 16387 (Gm16387), mRNA [NM_001024727]	-0.36	0.043	0.427	-0.56	0.030	0.477
Gm5595	NM_001008427	ref Mus musculus predicted gene 5595 (Gm5595), mRNA [NM_001008427]	-0.35	0.043	0.427	-0.62	0.020	0.445
Vmn2r27	NM_001104642	ref Mus musculus vomeronasal 2, receptor27 (Vmn2r27), mRNA [NM_001104642]	-0.70	0.043	0.428	-0.41	0.027	0.472
Prrt4	NM_001101443	ref Mus musculus proline-rich transmembrane protein 4 (Prrt4), mRNA [NM_001101443]	-0.36	0.043	0.428	-0.32	0.049	0.519
Ict1	NM_026729	ref Mus musculus immature colon carcinoma transcript 1 (Ict1), mRNA [NM_026729]	-0.22	0.043	0.428	-0.29	0.029	0.477
Sigirr	NM_023059	ref Mus musculus single immunoglobulin and toll-interleukin 1 receptor (TIR) domain (Sigirr), mRNA [NM_023059]	-0.22	0.043	0.428	-0.37	0.009	0.398
Ccdc125	NM_183115	ref Mus musculus coiled-coil domain containing 125 (Ccdc125), transcript variant 1, mRNA [NM_183115]	-0.26	0.043	0.428	-0.43	0.026	0.469
Gm9529	XR_034837	ref PREDICTED: Mus musculus hypothetical LOC671322 (LOC671322), misc RNA [XR_034837]	-0.38	0.043	0.429	-0.46	0.012	0.408
Acot8	NM_133240	ref Mus musculus acyl-CoA thioesterase 8 (Acot8), mRNA [NM_133240]	-0.28	0.043	0.429	-0.32	0.022	0.452

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
ENSMUST00000114337	ENSMUST00000114337	ens Ngg1 interacting factor 3-like 1 (S. pombe) Gene [Source:MGI (curated);Acc:MGI:1929485] [ENSMUST00000114337]	-0.30	0.043	0.430	-0.48	0.013	0.412
Snx11	NM_028965	ref Mus musculus sorting nexin 11 (Snx11), mRNA [NM_028965]	-0.17	0.044	0.430	-0.26	0.035	0.495
Mansc1	NM_026345	ref Mus musculus MANSC domain containing 1 (Mansc1), mRNA [NM_026345]	-0.68	0.044	0.432	-0.35	0.028	0.474
1810014F10Rik	NM_026928	ref Mus musculus RIKEN cDNA 1810014F10 gene (1810014F10Rik), mRNA [NM_026928]	-0.18	0.044	0.432	-0.26	0.036	0.495
G3bp2	NM_001080795	ref Mus musculus GTPase activating protein (SH3 domain) binding protein 2 (G3bp2), transcript variant 3, mRNA [NM_001080795]	-0.18	0.044	0.433	-0.23	0.026	0.471
Olfr145	NM_146313	ref Mus musculus olfactory receptor 145 (Olfr145), mRNA [NM_146313]	-0.73	0.044	0.435	-1.02	0.047	0.515
ENSMUST00000111010	ENSMUST00000111010	ens RIKEN cDNA 4930430A15 gene Gene [Source:MGI Symbol;Acc:MGI:1914825] [ENSMUST00000111010]	-0.74	0.044	0.435	-0.90	0.011	0.407
chr2:48826955-48827592_F	chr2:48826955-48827592_F	lincRNA:chr2:48826955-48827592 forward strand	-0.41	0.044	0.436	-0.42	0.019	0.437
A_55_P2021495	A_55_P2021495	Unknown	-0.33	0.045	0.436	-0.34	0.019	0.441
H2-DMa	NM_010386	ref Mus musculus histocompatibility 2, class II, locus DMa (H2-DMa), mRNA [NM_010386]	-0.35	0.045	0.436	-0.46	0.029	0.477
5430405G05Rik	NM_001160363	ref Mus musculus RIKEN cDNA 5430405G05 gene (5430405G05Rik), mRNA [NM_001160363]	-0.45	0.045	0.436	-0.53	0.043	0.509
Tomm40	NM_001109748	ref Mus musculus translocase of outer mitochondrial membrane 40 homolog (yeast) (Tomm40), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_001109748]	-0.31	0.045	0.437	-0.34	0.023	0.456
Atp5k	NM_007507	ref Mus musculus ATP synthase, H ⁺ transporting, mitochondrial F1F0 complex, subunit e (Atp5k), nuclear gene encoding mitochondrial protein, mRNA [NM_007507]	-0.25	0.045	0.438	-0.28	0.013	0.412

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Col4a3	NM_007734	ref Mus musculus collagen, type IV, alpha 3 (Col4a3), mRNA [NM_007734]	-0.31	0.045	0.439	-0.38	0.018	0.435
Sc4mol	NM_025436	ref Mus musculus sterol-C4-methyl oxidase-like (Sc4mol), mRNA [NM_025436]	-0.24	0.045	0.440	-0.32	0.033	0.489
Cd6	NM_009852	ref Mus musculus CD6 antigen (Cd6), transcript variant 2, mRNA [NM_009852]	-0.37	0.045	0.440	-0.45	0.031	0.482
chr7:86680928-86700632_F	chr7:86680928-86700632_F	lincRNA:chr7:86680928-86700632 forward strand	-0.54	0.045	0.441	-1.38	0.001	0.173
Tstd1	NM_001164525	ref Mus musculus thiosulfate sulfurtransferase (rhodanese)-like domain containing 1 (Tstd1), mRNA [NM_001164525]	-0.39	0.046	0.442	-0.58	0.015	0.420
0610009B22Rik	NM_025319	ref Mus musculus RIKEN cDNA 0610009B22 gene (0610009B22Rik), mRNA [NM_025319]	-0.22	0.046	0.442	-0.27	0.045	0.513
chr2:77146893-77155643_R	chr2:77146893-77155643_R	lincRNA:chr2:77146893-77155643 reverse strand	-0.55	0.046	0.443	-0.61	0.039	0.500
Gcnt3	NM_028087	ref Mus musculus glucosaminyl (N-acetyl) transferase 3, mucin type (Gcnt3), mRNA [NM_028087]	-0.39	0.046	0.443	-0.56	0.010	0.405
BC025920	NR_030677	ref Mus musculus cDNA sequence BC025920 (BC025920), non-coding RNA [NR_030677]	-0.28	0.046	0.443	-0.29	0.045	0.513
C030013G03Rik	AK021075	gb Mus musculus adult male corpus striatum cDNA, RIKEN full-length enriched library, clone:C030013G03 product:unclassifiable, full insert sequence. [AK021075]	-0.55	0.046	0.443	-0.96	0.006	0.369
Gm7975	XM_991123	ref PREDICTED: Mus musculus predicted gene, EG666200, transcript variant 2 (EG666200), mRNA [XM_991123]	-0.36	0.046	0.443	-0.49	0.030	0.479
Svopl	NM_177200	ref Mus musculus SV2 related protein homolog (rat)-like (Svopl), mRNA [NM_177200]	-0.54	0.046	0.444	-0.55	0.010	0.401
Ubash3b	NM_176860	ref Mus musculus ubiquitin associated and SH3 domain containing, B (Ubash3b), mRNA [NM_176860]	-0.55	0.046	0.444	-0.77	0.037	0.496
chr1:175660642-175671878_R	chr1:175660642-175671878_R	lincRNA:chr1:175660642-175671878 reverse strand	-0.37	0.046	0.444	-0.59	0.011	0.406

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Mrpl15	NM_001177658	ref Mus musculus mitochondrial ribosomal protein L15 (Mrpl15), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_001177658]	-0.21	0.046	0.445	-0.23	0.050	0.520
chr2:104657075-104658840_F	chr2:104657075-104658840_F	lincRNA:chr2:104657075-104658840 forward strand	-0.20	0.047	0.446	-0.27	0.044	0.511
9530091C08Rik	NR_033299	ref Mus musculus RIKEN cDNA 9530091C08 gene (9530091C08Rik), non-coding RNA [NR_033299]	-0.58	0.047	0.446	-0.69	0.004	0.312
March11	NM_177597	ref Mus musculus membrane-associated ring finger (C3HC4) 11 (March11), mRNA [NM_177597]	-0.28	0.047	0.447	-0.49	0.018	0.435
Mrps17	NM_025450	ref Mus musculus mitochondrial ribosomal protein S17 (Mrps17), nuclear gene encoding mitochondrial protein, mRNA [NM_025450]	-0.19	0.047	0.447	-0.27	0.039	0.499
chrX:147610870-147614259_F	chrX:147610870-147614259_F	lincRNA:chrX:147610870-147614259 forward strand	-0.56	0.047	0.447	-0.77	0.019	0.439
Rnf7	NM_011279	ref Mus musculus ring finger protein 7 (Rnf7), mRNA [NM_011279]	-0.23	0.047	0.447	-0.29	0.025	0.463
Gls2	NM_001033264	ref Mus musculus glutaminase 2 (liver, mitochondrial) (Gls2), nuclear gene encoding mitochondrial protein, mRNA [NM_001033264]	-0.44	0.047	0.447	-0.39	0.046	0.513
Cxx1b	NM_001018063	ref Mus musculus CAAX box 1 homolog B (human) (Cxx1b), mRNA [NM_001018063]	-0.30	0.047	0.448	-0.36	0.022	0.453
chr14:61240427-61325677_F	chr14:61240427-61325677_F	lincRNA:chr14:61240427-61325677 forward strand	-0.28	0.047	0.449	-0.52	0.008	0.388
Mrpl43	NM_053164	ref Mus musculus mitochondrial ribosomal protein L43 (Mrpl43), nuclear gene encoding mitochondrial protein, mRNA [NM_053164]	-0.74	0.047	0.449	-0.27	0.016	0.426
6820408C15Rik	NM_177656	ref Mus musculus RIKEN cDNA 6820408C15 gene (6820408C15Rik), mRNA [NM_177656]	-0.51	0.048	0.449	-0.52	0.040	0.503
Mrpl15	NM_001177658	ref Mus musculus mitochondrial ribosomal protein L15 (Mrpl15), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_001177658]	-0.36	0.048	0.449	-0.64	0.011	0.406
chr11:33414450-33450750_R	chr11:33414450-33450750_R	lincRNA:chr11:33414450-33450750 reverse strand	-0.25	0.048	0.450	-0.28	0.041	0.505

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both

Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Aurkc	NM_001080966	ref Mus musculus aurora kinase C (Aurkc), transcript variant 2, mRNA [NM_001080966]	-0.33	0.048	0.450	-0.40	0.031	0.480
Gtpbp10	NM_153116	ref Mus musculus GTP-binding protein 10 (putative) (Gtpbp10), mRNA [NM_153116]	-0.27	0.048	0.450	-0.30	0.049	0.518
Daam1	NM_026102	ref Mus musculus dishevelled associated activator of morphogenesis 1 (Daam1), transcript variant 1, mRNA [NM_026102]	-0.45	0.048	0.450	-0.44	0.037	0.496
ENSMUST00000103331	ENSMUST00000103331	gb Mus musculus rearranged immunoglobulin light chain variable region mRNA, partial cds. [U37911]	-0.47	0.048	0.451	-0.92	0.027	0.472
Lsmd1	NM_030083	ref Mus musculus LSM domain containing 1 (Lsmd1), mRNA [NM_030083]	-0.20	0.048	0.451	-0.28	0.029	0.477
Sidt1	NM_198034	ref Mus musculus SID1 transmembrane family, member 1 (Sidt1), transcript variant 2, mRNA [NM_198034]	-0.32	0.048	0.451	-0.42	0.021	0.450
Gm10549	ENSMUST00000097634	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q3URY4] [ENSMUST00000097634]	-0.51	0.048	0.451	-0.69	0.010	0.403
chr6:134839791-134842085_R	chr6:134839791-134842085_R	lincRNA:chr6:134839791-134842085 reverse strand	-1.50	0.048	0.452	-0.73	0.043	0.510
4930558N11Rik	XM_001472327	ref PREDICTED: Mus musculus RIKEN cDNA 4930558N11 gene (4930558N11Rik), mRNA [XM_001472327]	-0.33	0.048	0.452	-0.36	0.028	0.474
D2hgdh	NM_178882	ref Mus musculus D-2-hydroxyglutarate dehydrogenase (D2hgdh), nuclear gene encoding mitochondrial protein, mRNA [NM_178882]	-0.25	0.049	0.455	-0.37	0.012	0.412
Oxsm	NM_027695	ref Mus musculus 3-oxoacyl-ACP synthase, mitochondrial (Oxsm), nuclear gene encoding mitochondrial protein, mRNA [NM_027695]	-0.19	0.049	0.455	-0.25	0.028	0.474
B130024M06Rik	AK045073	gb Mus musculus 9.5 days embryo parthenogenote cDNA, RIKEN full-length enriched library, clone:B130024M06 product:unclassifiable, full insert sequence. [AK045073]	-1.10	0.049	0.456	-0.48	0.036	0.495
Naip1	NM_008670	ref Mus musculus NLR family, apoptosis inhibitory protein 1 (Naip1), mRNA [NM_008670]	-0.37	0.049	0.456	-0.57	0.026	0.468

Online Supplemental Table IV: mG4H-STZ and Con-STZ Both								
Gene Symbol	RefSeq	Description	logFC Con- STZ	P-value	Adj. P-value	logFC mG4H- STZ	P-value	Adj. P-value
Ska2l-ps	XM_001479792	ref PREDICTED: Mus musculus predicted gene, EG625534, transcript variant 1 (EG625534), mRNA [XM_001479792]	-0.31	0.050	0.457	-0.34	0.034	0.491
Itpa	NM_025922	ref Mus musculus inosine triphosphatase (nucleoside triphosphate pyrophosphatase) (Itpa), mRNA [NM_025922]	-0.22	0.050	0.457	-0.35	0.040	0.504
Entpd6	NM_172117	ref Mus musculus ectonucleoside triphosphate diphosphohydrolase 6 (Entpd6), mRNA [NM_172117]	-0.24	0.050	0.457	-0.39	0.005	0.353
Itsn1	NM_001110275	ref Mus musculus intersectin 1 (SH3 domain protein 1A) (Itsn1), transcript variant 2, mRNA [NM_001110275]	-0.32	0.050	0.457	-0.40	0.039	0.500

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
5830403M04Rik	AK042097	gb Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630057N03 product:unclassifiable, full insert sequence. [AK042097]	2.21	0.000	0.135	1.74	0.004	0.527	1.67	0.008	0.184
Acot1	NM_012006	ref Mus musculus acyl-CoA thioesterase 1 (Acot1), mRNA [NM_012006]	2.12	0.000	0.007	0.80	0.000	0.009	2.79	0.000	0.000
Rad51l1	NM_009014	ref Mus musculus RAD51-like 1 (S. cerevisiae) (Rad51l1), mRNA [NM_009014]	1.79	0.007	0.377	0.60	0.024	0.957	1.91	0.000	0.024
Gm2015	XM_001472138	ref PREDICTED: Mus musculus similar to pol protein (LOC100039039), mRNA [XM_001472138]	1.68	0.009	0.394	0.55	0.036	1.000	1.49	0.009	0.202
LOC632173	XR_031181	ref PREDICTED: Mus musculus similar to D5Ertd577e protein (LOC632173), misc RNA [XR_031181]	1.68	0.031	0.482	1.77	0.027	0.983	1.61	0.038	0.405
Ucp2	NM_011671	ref Mus musculus uncoupling protein 2 (mitochondrial, proton carrier) (Ucp2), nuclear gene encoding mitochondrial protein, mRNA [NM_011671]	1.61	0.001	0.177	0.47	0.004	0.516	1.69	0.000	0.008
Acot5	NM_145444	ref Mus musculus acyl-CoA thioesterase 5 (Acot5), mRNA [NM_145444]	1.59	0.000	0.083	0.41	0.037	1.000	2.22	0.000	0.002
Pdk4	NM_013743	ref Mus musculus pyruvate dehydrogenase kinase, isoenzyme 4 (Pdk4), mRNA [NM_013743]	1.56	0.000	0.037	0.67	0.001	0.320	2.02	0.000	0.000
Gm2371	XM_001472740	ref PREDICTED: Mus musculus similar to pol protein (LOC100044629), mRNA [XM_001472740]	1.47	0.010	0.403	0.54	0.042	1.000	1.53	0.006	0.161
Ucp3	NM_009464	ref Mus musculus uncoupling protein 3 (mitochondrial, proton carrier) (Ucp3), nuclear gene encoding mitochondrial protein, mRNA [NM_009464]	1.44	0.000	0.157	0.31	0.031	0.998	1.59	0.000	0.002
Cdkn1a	NM_007669	ref Mus musculus cyclin-dependent kinase inhibitor 1A (P21) (Cdkn1a), transcript variant 1, mRNA [NM_007669]	1.42	0.032	0.483	0.45	0.042	1.000	1.54	0.004	0.129
Arrdc4	NM_025549	ref Mus musculus arrestin domain containing 4 (Arrdc4), transcript variant 2, mRNA [NM_025549]	1.39	0.001	0.167	0.94	0.000	0.004	0.49	0.002	0.086
Spsb2	NM_013539	ref Mus musculus splA/ryanodine receptor domain and SOCS box containing 2 (Spsb2), mRNA [NM_013539]	1.33	0.000	0.007	0.59	0.000	0.132	1.39	0.000	0.001
Maff	NM_010755	ref Mus musculus v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F (avian) (Maff), mRNA [NM_010755]	1.33	0.008	0.391	0.31	0.015	0.830	1.20	0.001	0.058
Cgref1	NM_026770	ref Mus musculus cell growth regulator with EF hand domain 1 (Cgref1), transcript variant 1, mRNA [NM_026770]	1.32	0.000	0.129	0.42	0.001	0.338	1.79	0.000	0.000
Gm16439	XM_001478188	ref PREDICTED: Mus musculus similar to E1B 19K/Bcl-2-binding protein homolog (LOC100042570), mRNA [XM_001478188]	1.31	0.006	0.369	0.33	0.014	0.825	1.25	0.000	0.027
chr11:99970341-99973420_R	chr11:99970341-99973420_R	lincRNA:chr11:99970341-99973420 reverse strand	1.28	0.006	0.365	1.19	0.005	0.588	0.95	0.015	0.260

Online Supplemental Table IV: All Three Overlap											
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Tmem100	NM_026433	ref Mus musculus transmembrane protein 100 (Tmem100), mRNA [NM_026433]	1.26	0.000	0.121	0.42	0.036	1.000	1.31	0.000	0.034
chr3:127170996-127201096_F	chr3:127170996-127201096_F	lincRNA:chr3:127170996-127201096 forward strand	1.19	0.017	0.429	1.27	0.007	0.682	1.02	0.036	0.392
Chrna2	NM_144803	ref Mus musculus cholinergic receptor, nicotinic, alpha polypeptide 2 (neuronal) (Chma2), mRNA [NM_144803]	1.18	0.000	0.157	0.26	0.037	1.000	1.46	0.000	0.001
Shisa3	NM_001033415	ref Mus musculus shisa homolog 3 (Xenopus laevis) (Shisa3), mRNA [NM_001033415]	1.13	0.000	0.141	0.60	0.012	0.793	0.95	0.002	0.097
Ptk2b	NM_172498	ref Mus musculus PTK2 protein tyrosine kinase 2 beta (Ptk2b), transcript variant 3, mRNA [NM_172498]	1.10	0.000	0.048	0.30	0.011	0.770	0.88	0.001	0.065
Acot2	NM_134188	ref Mus musculus acyl-CoA thioesterase 2 (Acot2), nuclear gene encoding mitochondrial protein, mRNA [NM_134188]	1.09	0.000	0.066	0.45	0.005	0.578	1.59	0.000	0.000
Fam46a	NM_001160378	ref Mus musculus family with sequence similarity 46, member A (Fam46a), transcript variant 1, mRNA [NM_001160378]	1.09	0.026	0.470	0.28	0.020	0.895	1.10	0.001	0.059
Nrip3	NM_020610	ref Mus musculus nuclear receptor interacting protein 3 (Nrip3), mRNA [NM_020610]	1.07	0.027	0.472	0.38	0.012	0.786	1.05	0.003	0.106
D830030K20Rik	NM_177135	ref Mus musculus RIKEN cDNA D830030K20 gene (D830030K20Rik), mRNA [NM_177135]	1.05	0.001	0.210	0.36	0.008	0.704	1.29	0.000	0.002
chr14:55672705-55675212_F	chr14:55672705-55675212_F	lincRNA:chr14:55672705-55675212 forward strand	1.03	0.001	0.184	0.98	0.002	0.432	0.60	0.041	0.418
Bnip3	NM_009760	ref Mus musculus BCL2/adenovirus E1B interacting protein 3 (Bnip3), nuclear gene encoding mitochondrial protein, mRNA [NM_009760]	1.03	0.010	0.404	0.26	0.043	1.000	0.90	0.005	0.148
Gm10638	AK133595	gb Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library, clone:5330411O07 product:unclassifiable, full insert sequence. [AK133595]	1.01	0.015	0.419	0.18	0.047	1.000	1.06	0.001	0.065
Thbs1	NM_011580	ref Mus musculus thrombospondin 1 (Thbs1), mRNA [NM_011580]	0.96	0.001	0.173	0.55	0.014	0.820	1.01	0.000	0.021
Cpeb2	NM_175937	ref Mus musculus cytoplasmic polyadenylation element binding protein 2 (Cpeb2), transcript variant 1, mRNA [NM_175937]	0.95	0.034	0.493	0.22	0.020	0.897	0.49	0.010	0.209
Tspan4	NM_053082	ref Mus musculus tetraspanin 4 (Tspan4), mRNA [NM_053082]	0.95	0.000	0.160	0.44	0.000	0.095	0.81	0.000	0.016
2010111I01Rik	NM_028079	ref Mus musculus RIKEN cDNA 2010111I01 gene (2010111I01Rik), mRNA [NM_028079]	0.93	0.010	0.402	0.25	0.017	0.863	0.90	0.000	0.019
Ppil6	NM_028430	ref Mus musculus peptidylprolyl isomerase (cyclophilin)-like 6 (Ppil6), mRNA [NM_028430]	0.92	0.020	0.447	0.36	0.035	1.000	0.81	0.006	0.162

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
lfrd1	NM_013562	ref Mus musculus interferon-related developmental regulator 1 (lfrd1), mRNA [NM_013562]	0.91	0.008	0.391	0.34	0.000	0.132	0.91	0.000	0.006
chr15:59966962-59972812_R	chr15:59966962-59972812_R	lincRNA:chr15:59966962-59972812 reverse strand	0.90	0.017	0.435	0.91	0.043	1.000	0.94	0.013	0.247
Rufy3	NM_027530	ref Mus musculus RUN and FYVE domain containing 3 (Rufy3), mRNA [NM_027530]	0.90	0.008	0.391	0.38	0.034	1.000	0.51	0.001	0.067
2200002D01Rik	NM_028179	ref Mus musculus RIKEN cDNA 2200002D01 gene (2200002D01Rik), mRNA [NM_028179]	0.88	0.010	0.400	0.28	0.013	0.793	1.07	0.000	0.011
Gm14506	XR_032176	ref PREDICTED: Mus musculus similar to E1B 19K/Bcl-2-binding protein homolog (LOC675416), misc RNA [XR_032176]	0.87	0.006	0.369	0.21	0.039	1.000	0.79	0.002	0.089
Dydc1	NM_027094	ref Mus musculus DPY30 domain containing 1 (Dydc1), mRNA [NM_027094]	0.87	0.006	0.356	0.66	0.023	0.936	0.57	0.041	0.422
chr3:48896525-48994125_R	chr3:48896525-48994125_R	lincRNA:chr3:48896525-48994125 reverse strand	0.86	0.007	0.382	0.72	0.031	0.998	0.73	0.031	0.366
Abhd1	NM_021304	ref Mus musculus abhydrolase domain containing 1 (Abhd1), mRNA [NM_021304]	0.86	0.001	0.216	0.36	0.014	0.825	1.12	0.000	0.009
Olf1r1283	NM_207236	ref Mus musculus olfactory receptor 1283 (Olf1r1283), mRNA [NM_207236]	0.86	0.002	0.279	0.61	0.029	0.986	0.66	0.009	0.206
Rgs16	NM_011267	ref Mus musculus regulator of G-protein signaling 16 (Rgs16), mRNA [NM_011267]	0.85	0.000	0.134	0.38	0.004	0.538	0.45	0.004	0.137
Klf10	NM_013692	ref Mus musculus Kruppel-like factor 10 (Klf10), mRNA [NM_013692]	0.85	0.000	0.160	0.70	0.000	0.170	0.83	0.000	0.007
chr6:93570531-93599006_F	chr6:93570531-93599006_F	lincRNA:chr6:93570531-93599006 forward strand	0.84	0.014	0.412	0.64	0.040	1.000	0.71	0.028	0.351
Impa2	NM_053261	ref Mus musculus inositol (myo)-1(or 4)-monophosphatase 2 (Impa2), mRNA [NM_053261]	0.81	0.000	0.077	0.74	0.000	0.020	0.90	0.000	0.004
1700017N19Rik	NM_001081246	ref Mus musculus RIKEN cDNA 1700017N19 gene (1700017N19Rik), mRNA [NM_001081246]	0.81	0.001	0.241	0.72	0.002	0.409	0.45	0.041	0.421
Gm2715	XM_001474506	ref PREDICTED: Mus musculus hypothetical protein LOC100040327 (LOC100040327), mRNA [XM_001474506]	0.80	0.011	0.406	0.85	0.009	0.731	0.70	0.021	0.304
Pfkfb3	NM_001177753	ref Mus musculus 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 (Pfkfb3), transcript variant 2, mRNA [NM_001177753]	0.79	0.003	0.290	0.48	0.000	0.190	0.23	0.044	0.432
1300010F03Rik	NM_173758	ref Mus musculus RIKEN cDNA 1300010F03 gene (1300010F03Rik), transcript variant 2, mRNA [NM_173758]	0.79	0.000	0.160	0.31	0.001	0.320	0.81	0.000	0.003
Gm5432	XM_488626	ref PREDICTED: Mus musculus predicted gene, EG432636 (EG432636), mRNA [XM_488626]	0.79	0.026	0.469	0.97	0.006	0.628	0.66	0.041	0.418

Online Supplemental Table IV: All Three Overlap											
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
chr13:83867711-83878140_F	chr13:83867711-83878140_F	lincRNA:chr13:83867711-83878140 forward strand	0.78	0.025	0.463	0.67	0.046	1.000	0.88	0.014	0.253
LOC676890	XM_993808	ref PREDICTED: Mus musculus hypothetical LOC676890 (LOC676890), mRNA [XM_993808]	0.78	0.002	0.281	0.56	0.020	0.886	0.57	0.033	0.377
ENSMUST00000028048	ENSMUST00000028048	ens RAB GTPase activating protein 1-like Gene [Source:MGI Symbol;Acc:MGI:1352507] [ENSMUST00000028048]	0.77	0.000	0.157	0.19	0.024	0.956	0.57	0.003	0.110
E430022K19Rik	AK040137	gb Mus musculus 0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A430069D01 product:unclassifiable, full insert sequence. [AK040137]	0.77	0.000	0.048	0.34	0.015	0.840	0.44	0.034	0.382
ENSMUST00000100526	ENSMUST00000100526	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3V011] [ENSMUST00000100526]	0.76	0.014	0.412	0.87	0.024	0.954	0.73	0.014	0.256
Tprg	NM_175165	ref Mus musculus transformation related protein 63 regulated (Tprg), mRNA [NM_175165]	0.76	0.013	0.412	0.48	0.039	1.000	0.87	0.001	0.071
1300010F03Rik	NM_173758	ref Mus musculus RIKEN cDNA 1300010F03 gene (1300010F03Rik), transcript variant 2, mRNA [NM_173758]	0.74	0.000	0.048	0.24	0.013	0.802	0.87	0.000	0.003
lrx2	NM_010574	ref Mus musculus Iroquois related homeobox 2 (Drosophila) (lrx2), mRNA [NM_010574]	0.74	0.012	0.412	0.74	0.001	0.263	0.51	0.012	0.234
Zfp780b	NM_001081021	ref Mus musculus zinc finger protein 780B (Zfp780b), mRNA [NM_001081021]	0.74	0.001	0.210	0.71	0.010	0.749	0.64	0.010	0.208
Cidea	NM_007702	ref Mus musculus cell death-inducing DNA fragmentation factor, alpha subunit-like effector A (Cidea), mRNA [NM_007702]	0.74	0.000	0.048	0.39	0.000	0.099	0.99	0.000	0.003
chr11:33414450-33450750_R	chr11:33414450-33450750_R	lincRNA:chr11:33414450-33450750 reverse strand	0.73	0.002	0.266	0.54	0.022	0.922	0.53	0.018	0.283
chr13:21257927-21258387_R	chr13:21257927-21258387_R	lincRNA:chr13:21257927-21258387 reverse strand	0.72	0.014	0.414	0.65	0.019	0.881	0.58	0.028	0.349
1300010F03Rik	NM_027906	ref Mus musculus RIKEN cDNA 1300010F03 gene (1300010F03Rik), transcript variant 1, mRNA [NM_027906]	0.71	0.000	0.064	0.35	0.001	0.317	0.90	0.000	0.003
Serinc2	NM_172702	ref Mus musculus serine incorporator 2 (Serinc2), mRNA [NM_172702]	0.70	0.013	0.412	0.48	0.014	0.816	1.11	0.000	0.011
ENSMUST00000077447	ENSMUST00000077447	ens polypeptide N-acetylgalactosaminyltransferase-like 6 [Source:RefSeq peptide;Acc:NP_778197] [ENSMUST00000077447]	0.70	0.004	0.325	0.60	0.015	0.831	0.53	0.025	0.330
Grk5	NM_018869	ref Mus musculus G protein-coupled receptor kinase 5 (Grk5), mRNA [NM_018869]	0.70	0.000	0.045	0.27	0.002	0.395	0.72	0.000	0.006

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Tlr4	NM_021297	ref Mus musculus toll-like receptor 4 (Tlr4), mRNA [NM_021297]	0.69	0.000	0.117	0.33	0.006	0.661	0.98	0.000	0.016
chr16:21307869-21308193_F	chr16:21307869-21308193_F	lincRNA:chr16:21307869-21308193 forward strand	0.69	0.010	0.404	0.55	0.036	1.000	0.48	0.049	0.453
4930455J16Rik	AK030052	gb Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4932418C03 product:unclassifiable, full insert sequence. [AK030052]	0.68	0.003	0.308	0.38	0.032	1.000	0.46	0.016	0.274
Rad51l1	ENSMUST00000079533	ens RAD51-like 1 (S. cerevisiae) Gene [Source:MGI Symbol;Acc:MGI:1099436] [ENSMUST00000079533]	0.67	0.013	0.412	0.52	0.038	1.000	0.61	0.005	0.149
chr13:113555055-113564665_F	chr13:113555055-113564665_F	lincRNA:chr13:113555055-113564665 forward strand	0.67	0.002	0.272	0.36	0.023	0.943	0.90	0.000	0.012
chr8:71526892-71527500_R	chr8:71526892-71527500_R	lincRNA:chr8:71526892-71527500 reverse strand	0.67	0.024	0.461	0.66	0.039	1.000	0.65	0.031	0.371
chr14:79311982-79334451_F	chr14:79311982-79334451_F	lincRNA:chr14:79311982-79334451 forward strand	0.66	0.007	0.377	0.29	0.009	0.716	0.62	0.001	0.049
Decr1	NM_026172	ref Mus musculus 2,4-dienoyl CoA reductase 1, mitochondrial (Decr1), nuclear gene encoding mitochondrial protein, mRNA [NM_026172]	0.65	0.000	0.117	0.35	0.003	0.495	0.79	0.000	0.002
Igf2bp2	NM_183029	ref Mus musculus insulin-like growth factor 2 mRNA binding protein 2 (Igf2bp2), mRNA [NM_183029]	0.64	0.002	0.281	0.46	0.001	0.284	0.92	0.000	0.032
Cnn1	NM_009922	ref Mus musculus calponin 1 (Cnn1), mRNA [NM_009922]	0.63	0.016	0.426	0.43	0.047	1.000	0.34	0.027	0.343
Ier3	NM_133662	ref Mus musculus immediate early response 3 (Ier3), mRNA [NM_133662]	0.63	0.003	0.281	0.36	0.001	0.263	0.71	0.000	0.040
4833439F03Rik	AK019523	gb Mus musculus 0 day neonate head cDNA, RIKEN full-length enriched library, clone:4833439F03 product:unclassifiable, full insert sequence. [AK019523]	0.63	0.000	0.048	0.40	0.000	0.106	0.66	0.000	0.009
Vmn2r-ps26	XM_906846	ref PREDICTED: Mus musculus predicted gene, EG632649 (EG632649), mRNA [XM_906846]	0.63	0.007	0.374	0.65	0.005	0.578	0.50	0.041	0.418
Il1rl1	NM_010743	ref Mus musculus interleukin 1 receptor-like 1 (Il1rl1), transcript variant 2, mRNA [NM_010743]	0.62	0.007	0.377	0.77	0.006	0.636	0.63	0.009	0.204
Elmod3	ENSMUST00000114069	ens ELMO/CED-12 domain containing 3 Gene [Source:MGI (curated);Acc:MGI:2445168] [ENSMUST00000114069]	0.61	0.000	0.048	0.16	0.044	1.000	0.63	0.000	0.005
LOC100045616	XM_001474612	ref PREDICTED: Mus musculus similar to ribonuclease 7 (LOC100045616), mRNA [XM_001474612]	0.60	0.034	0.493	0.39	0.042	1.000	0.38	0.044	0.432
chr16:30195156-30200385_F	chr16:30195156-30200385_F	lincRNA:chr16:30195156-30200385 forward strand	0.60	0.000	0.160	0.59	0.001	0.263	0.41	0.045	0.437
LOC676546	XM_990990	ref PREDICTED: Mus musculus similar to COLLAGEN family member (col-183) (LOC676546), mRNA [XM_990990]	0.60	0.013	0.412	0.20	0.009	0.720	0.77	0.000	0.004

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Fkbp10	NM_010221	ref Mus musculus FK506 binding protein 10 (Fkbp10), transcript variant 1, mRNA [NM_010221]	0.60	0.002	0.264	0.33	0.002	0.401	0.92	0.000	0.000
chr15:96984422-97000322_R	chr15:96984422-97000322_R	lincRNA:chr15:96984422-97000322 reverse strand	0.59	0.007	0.377	0.53	0.018	0.878	0.73	0.002	0.100
Siglec5	NM_145581	ref Mus musculus sialic acid binding Ig-like lectin 5 (Siglec5), mRNA [NM_145581]	0.58	0.001	0.227	0.39	0.041	1.000	0.54	0.006	0.157
Lgals4	NM_010706	ref Mus musculus lectin, galactose binding, soluble 4 (Lgals4), mRNA [NM_010706]	0.57	0.003	0.281	0.37	0.043	1.000	0.74	0.001	0.049
Slc38a2	NM_175121	ref Mus musculus solute carrier family 38, member 2 (Slc38a2), mRNA [NM_175121]	0.57	0.003	0.281	0.20	0.030	0.998	0.63	0.000	0.044
A_55_P2156096	A_55_P2156096	Unknown	0.57	0.043	0.510	0.52	0.037	1.000	0.60	0.018	0.281
Gnas	NM_201617	ref Mus musculus GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus (Gnas), transcript variant 6, mRNA [NM_201617]	0.57	0.025	0.465	0.50	0.003	0.496	0.62	0.003	0.125
Ntn1	NM_008744	ref Mus musculus netrin 1 (Ntn1), mRNA [NM_008744]	0.57	0.005	0.343	0.29	0.024	0.954	0.37	0.021	0.303
ENSMUST00000100797	ENSMUST00000100797	Unknown	0.56	0.019	0.441	0.61	0.050	1.000	0.67	0.007	0.182
Gatsl2	NM_030719	ref Mus musculus GATS protein-like 2 (Gatsl2), mRNA [NM_030719]	0.56	0.007	0.370	0.28	0.001	0.317	0.43	0.015	0.259
Rbpjl	NM_009036	ref Mus musculus recombination signal binding protein for immunoglobulin kappa J region-like (Rbpjl), mRNA [NM_009036]	0.55	0.012	0.409	0.41	0.018	0.863	0.35	0.017	0.274
Dyx1c1	NM_026314	ref Mus musculus dyslexia susceptibility 1 candidate 1 homolog (human) (Dyx1c1), transcript variant 1, mRNA [NM_026314]	0.55	0.018	0.436	0.34	0.010	0.752	0.26	0.043	0.429
chr3:100363012-100369462_R	chr3:100363012-100369462_R	lincRNA:chr3:100363012-100369462 reverse strand	0.54	0.009	0.398	0.52	0.010	0.743	0.55	0.002	0.097
Rabgap1l	NM_013862	ref Mus musculus RAB GTPase activating protein 1-like (Rabgap1l), transcript variant 1, mRNA [NM_013862]	0.54	0.002	0.276	0.33	0.001	0.327	0.36	0.003	0.107
Zyx	NM_011777	ref Mus musculus zyxin (Zyx), mRNA [NM_011777]	0.54	0.001	0.188	0.18	0.027	0.981	0.62	0.000	0.024
Phka1	NM_008832	ref Mus musculus phosphorylase kinase alpha 1 (Phka1), transcript variant 1, mRNA [NM_008832]	0.54	0.010	0.400	0.17	0.041	1.000	0.39	0.017	0.278
Mtnr1a	NM_008639	ref Mus musculus melatonin receptor 1A (Mtnr1a), mRNA [NM_008639]	0.54	0.043	0.510	0.49	0.036	1.000	0.64	0.004	0.135
1110036O03Rik	NM_176830	ref Mus musculus RIKEN cDNA 1110036O03 gene (1110036O03Rik), mRNA [NM_176830]	0.54	0.000	0.090	0.32	0.001	0.263	0.80	0.000	0.002
ENSMUST00000100426	ENSMUST00000100426	ens Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q3TYJ8] [ENSMUST00000100426]	0.53	0.020	0.443	0.55	0.014	0.825	0.55	0.028	0.349

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Gm2769	XM_001474679	ref PREDICTED: Mus musculus hypothetical protein LOC100040437 (LOC100040437), mRNA [XM_001474679]	0.53	0.005	0.346	0.32	0.010	0.747	0.34	0.032	0.371
Mrgpra1	NM_153095	ref Mus musculus MAS-related GPR, member A1 (Mrgpra1), mRNA [NM_153095]	0.53	0.021	0.447	0.65	0.006	0.643	0.57	0.017	0.279
chr9:113648970-113715170_R	chr9:113648970-113715170_R	lincRNA:chr9:113648970-113715170 reverse strand	0.53	0.009	0.397	0.51	0.017	0.861	0.61	0.006	0.162
Slc1a1	NM_009199	ref Mus musculus solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1 (Slc1a1), mRNA [NM_009199]	0.52	0.001	0.167	0.41	0.003	0.475	0.59	0.003	0.115
Serp2	NM_001160326	ref Mus musculus stress-associated endoplasmic reticulum protein family member 2 (Serp2), transcript variant 1, mRNA [NM_001160326]	0.52	0.001	0.222	0.15	0.037	1.000	0.36	0.002	0.099
ENSMUST00000065540	ENSMUST00000065540	ens carcinoembryonic antigen-related cell adhesion molecule 3 Gene [Source:MGI (curated);Acc:MGI:3646296] [ENSMUST00000065540]	0.51	0.035	0.494	0.46	0.003	0.500	0.37	0.038	0.402
Fbxo9	NM_023605	ref Mus musculus f-box protein 9 (Fbxo9), transcript variant 1, mRNA [NM_023605]	0.51	0.016	0.425	0.16	0.049	1.000	0.29	0.017	0.279
Ephx2	NM_007940	ref Mus musculus epoxide hydrolase 2, cytoplasmic (Ephx2), mRNA [NM_007940]	0.50	0.001	0.227	0.24	0.016	0.848	0.61	0.000	0.017
Sykb	NM_011518	ref Mus musculus spleen tyrosine kinase (Sykb), mRNA [NM_011518]	0.50	0.000	0.084	0.19	0.015	0.832	0.68	0.000	0.004
Man1a2	NM_010763	ref Mus musculus mannosidase, alpha, class 1A, member 2 (Man1a2), mRNA [NM_010763]	0.50	0.009	0.399	0.28	0.045	1.000	0.47	0.010	0.208
ENSMUST00000113576	ENSMUST00000113576	ens runt related transcription factor 2 Gene [Source:MGI Symbol;Acc:MGI:99829] [ENSMUST00000113576]	0.50	0.007	0.382	0.44	0.020	0.891	0.45	0.010	0.207
chr2:72818943-72826893_R	chr2:72818943-72826893_R	lincRNA:chr2:72818943-72826893 reverse strand	0.50	0.038	0.498	0.61	0.011	0.771	0.50	0.033	0.377
Lpcat3	NM_145130	ref Mus musculus lysophosphatidylcholine acyltransferase 3 (Lpcat3), mRNA [NM_145130]	0.50	0.006	0.360	0.19	0.048	1.000	0.67	0.000	0.017
Dbi	NM_001037999	ref Mus musculus diazepam binding inhibitor (Dbi), transcript variant 1, mRNA [NM_001037999]	0.50	0.000	0.148	0.40	0.000	0.050	0.61	0.000	0.004
chr9:121845920-121858120_R	chr9:121845920-121858120_R	lincRNA:chr9:121845920-121858120 reverse strand	0.49	0.036	0.495	0.45	0.043	1.000	0.53	0.015	0.261
Dbi	NM_001037999	ref Mus musculus diazepam binding inhibitor (Dbi), transcript variant 1, mRNA [NM_001037999]	0.49	0.003	0.281	0.35	0.000	0.131	0.66	0.000	0.004
chr6:91928958-91936887_R	chr6:91928958-91936887_R	lincRNA:chr6:91928958-91936887 reverse strand	0.49	0.002	0.271	0.20	0.039	1.000	0.35	0.005	0.154

Online Supplemental Table IV: All Three Overlap											
Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Ttll11	NM_029774	ref Mus musculus tubulin tyrosine ligase-like family, member 11 (Ttll11), transcript variant 1, mRNA [NM_029774]	0.49	0.005	0.338	0.28	0.044	1.000	0.55	0.001	0.077
LOC100045753	XM_001474871	ref PREDICTED: Mus musculus similar to headcase homolog (LOC100045753), mRNA [XM_001474871]	0.49	0.002	0.279	0.21	0.012	0.786	0.28	0.026	0.338
Zdhhc14	NM_146073	ref Mus musculus zinc finger, DHHC domain containing 14 (Zdhhc14), mRNA [NM_146073]	0.48	0.006	0.356	0.16	0.046	1.000	0.30	0.045	0.437
Tshz1	NM_001081300	ref Mus musculus teashirt zinc finger family member 1 (Tshz1), mRNA [NM_001081300]	0.47	0.001	0.183	0.23	0.029	0.986	0.44	0.000	0.023
chr18:25622407-25635118_R	chr18:25622407-25635118_R	lincRNA:chr18:25622407-25635118 reverse strand	0.46	0.045	0.513	0.57	0.026	0.973	0.47	0.049	0.453
2310044G17Rik	NM_173735	ref Mus musculus RIKEN cDNA 2310044G17 gene (2310044G17Rik), transcript variant 1, mRNA [NM_173735]	0.45	0.017	0.432	0.18	0.033	1.000	0.37	0.006	0.156
Slmap	NM_032008	ref Mus musculus sarcolemma associated protein (Slmap), mRNA [NM_032008]	0.45	0.008	0.393	0.21	0.021	0.916	0.47	0.002	0.096
chr17:6265275-6362150_F	chr17:6265275-6362150_F	lincRNA:chr17:6265275-6362150 forward strand	0.45	0.002	0.279	0.28	0.033	1.000	0.34	0.016	0.270
Gzmc	NM_010371	ref Mus musculus granzyme C (Gzmc), mRNA [NM_010371]	0.44	0.022	0.453	0.49	0.011	0.770	0.37	0.049	0.455
LOC100045978	XM_001475282	ref PREDICTED: Mus musculus hypothetical protein LOC100045978 (LOC100045978), mRNA [XM_001475282]	0.44	0.024	0.459	0.47	0.013	0.808	0.48	0.045	0.439
D830030K20Rik	NM_177135	ref Mus musculus RIKEN cDNA D830030K20 gene (D830030K20Rik), mRNA [NM_177135]	0.44	0.007	0.377	0.38	0.024	0.957	0.40	0.032	0.375
chr9:118059348-118079494_F	chr9:118059348-118079494_F	lincRNA:chr9:118059348-118079494 forward strand	0.44	0.011	0.407	0.38	0.016	0.848	0.38	0.034	0.383
chr12:16447157-16447657_F	chr12:16447157-16447657_F	lincRNA:chr12:16447157-16447657 forward strand	0.44	0.041	0.505	0.53	0.016	0.848	0.63	0.016	0.272
chr4:138653689-138688814_R	chr4:138653689-138688814_R	lincRNA:chr4:138653689-138688814 reverse strand	0.44	0.036	0.495	0.74	0.045	1.000	0.54	0.005	0.155
Gm5077	NM_173864	ref Mus musculus predicted gene 5077 (Gm5077), mRNA [NM_173864]	0.43	0.034	0.493	0.36	0.045	1.000	0.39	0.040	0.414
Fam189a2	NM_001114174	ref Mus musculus family with sequence similarity 189, member A2 (Fam189a2), mRNA [NM_001114174]	0.43	0.007	0.384	0.22	0.038	1.000	0.30	0.012	0.232
Il18r1	NM_001161842	ref Mus musculus interleukin 18 receptor 1 (Il18r1), transcript variant 2, mRNA [NM_001161842]	0.43	0.025	0.463	0.39	0.031	0.998	0.44	0.011	0.217
Usf2	NM_011680	ref Mus musculus upstream transcription factor 2 (Usf2), mRNA [NM_011680]	0.43	0.046	0.513	0.31	0.002	0.342	0.20	0.045	0.439

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Mapre1	NM_007896	ref Mus musculus microtubule-associated protein, RP/EB family, member 1 (Mapre1), mRNA [NM_007896]	0.41	0.003	0.288	0.18	0.046	1.000	0.24	0.019	0.291
Pex11a	NM_011068	ref Mus musculus peroxisomal biogenesis factor 11 alpha (Pex11a), mRNA [NM_011068]	0.40	0.010	0.405	0.32	0.000	0.181	0.60	0.000	0.017
Fgf21	NM_020013	ref Mus musculus fibroblast growth factor 21 (Fgf21), mRNA [NM_020013]	0.40	0.042	0.508	0.66	0.005	0.606	1.27	0.000	0.022
chr1:196445304-196445818_R	chr1:196445304-196445818_R	lincRNA:chr1:196445304-196445818 reverse strand	0.40	0.006	0.356	0.29	0.026	0.971	0.34	0.012	0.233
Mef2d	NM_133665	ref Mus musculus myocyte enhancer factor 2D (Mef2d), mRNA [NM_133665]	0.40	0.022	0.450	0.30	0.018	0.864	0.29	0.045	0.439
Kank1	NM_181404	ref Mus musculus KN motif and ankyrin repeat domains 1 (Kank1), mRNA [NM_181404]	0.40	0.009	0.398	0.17	0.048	1.000	0.46	0.002	0.087
chr2:35828611-35838083_F	chr2:35828611-35838083_F	lincRNA:chr2:35828611-35838083 forward strand	0.39	0.030	0.478	0.47	0.024	0.952	0.68	0.000	0.034
Amd-ps7	XR_034456	ref PREDICTED: Mus musculus similar to Adenosylmethionine decarboxylase 1 (LOC668888), misc RNA [XR_034456]	0.39	0.044	0.511	0.23	0.022	0.935	0.46	0.017	0.280
Fgf1	NM_010197	ref Mus musculus fibroblast growth factor 1 (Fgf1), mRNA [NM_010197]	0.38	0.001	0.248	0.31	0.002	0.357	0.26	0.010	0.209
Acot4	NM_134247	ref Mus musculus acyl-CoA thioesterase 4 (Acot4), mRNA [NM_134247]	0.38	0.037	0.496	0.35	0.020	0.887	0.61	0.002	0.099
Gm13272	NM_001161608	ref Mus musculus predicted gene 13272 (Gm13272), mRNA [NM_001161608]	0.37	0.012	0.410	0.38	0.005	0.588	0.68	0.001	0.053
Slc24a4	NM_172152	ref Mus musculus solute carrier family 24 (sodium/potassium/calcium exchanger), member 4 (Slc24a4), mRNA [NM_172152]	0.37	0.018	0.437	0.42	0.001	0.261	0.43	0.002	0.096
Smad7	NM_001042660	ref Mus musculus MAD homolog 7 (Drosophila) (Smad7), mRNA [NM_001042660]	0.36	0.019	0.437	0.32	0.028	0.983	0.52	0.001	0.051
Olfr1037	NM_001011532	ref Mus musculus olfactory receptor 1037 (Olfr1037), mRNA [NM_001011532]	0.36	0.012	0.408	0.41	0.003	0.496	0.35	0.007	0.179
Gm5144	XR_035213	ref PREDICTED: Mus musculus hypothetical LOC381002 (LOC381002), misc RNA [XR_035213]	0.36	0.029	0.477	0.36	0.007	0.679	0.60	0.001	0.064
chr4:12159175-12175725_R	chr4:12159175-12175725_R	lincRNA:chr4:12159175-12175725 reverse strand	0.35	0.021	0.448	0.30	0.029	0.988	0.37	0.036	0.392
Slc43a2	NM_173388	ref Mus musculus solute carrier family 43, member 2 (Slc43a2), mRNA [NM_173388]	0.35	0.021	0.449	0.35	0.011	0.773	0.35	0.023	0.318
Pth1r	NM_011199	ref Mus musculus parathyroid hormone 1 receptor (Pth1r), transcript variant 1, mRNA [NM_011199]	0.35	0.016	0.428	0.50	0.000	0.084	0.36	0.001	0.060
SImap	NM_032008	ref Mus musculus sarcolemma associated protein (SImap), mRNA [NM_032008]	0.34	0.005	0.349	0.18	0.028	0.983	0.45	0.000	0.029

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Nudt7	NM_024437	ref Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 7 (Nudt7), transcript variant 1, mRNA [NM_024437]	0.33	0.010	0.401	0.27	0.020	0.890	0.27	0.032	0.372
Dhx32	NM_133941	ref Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 32 (Dhx32), mRNA [NM_133941]	0.31	0.012	0.410	0.21	0.034	1.000	0.32	0.005	0.154
Agpat3	NM_053014	ref Mus musculus 1-acylglycerol-3-phosphate O-acyltransferase 3 (Agpat3), mRNA [NM_053014]	0.30	0.009	0.397	0.20	0.039	1.000	0.46	0.001	0.063
2310022B05Rik	NM_175149	ref Mus musculus RIKEN cDNA 2310022B05 gene (2310022B05Rik), mRNA [NM_175149]	0.29	0.022	0.451	0.27	0.002	0.357	0.29	0.008	0.186
Gm13275	NM_001085533	ref Mus musculus predicted gene 13275 (Gm13275), mRNA [NM_001085533]	0.29	0.049	0.519	0.31	0.027	0.983	0.55	0.001	0.079
Hipk2	NM_001136065	ref Mus musculus homeodomain interacting protein kinase 2 (Hipk2), transcript variant 1, mRNA [NM_001136065]	0.27	0.039	0.501	0.15	0.030	0.998	0.23	0.022	0.315
Socs7	NM_138657	ref Mus musculus suppressor of cytokine signaling 7 (Socs7), mRNA [NM_138657]	0.22	0.035	0.494	0.20	0.015	0.830	0.19	0.044	0.435
Nudt7	NM_024446	ref Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 7 (Nudt7), transcript variant 2, mRNA [NM_024446]	0.20	0.046	0.513	0.23	0.004	0.554	0.22	0.035	0.390
Ccni	NM_017367	ref Mus musculus cyclin I (Ccni), mRNA [NM_017367]	0.20	0.038	0.499	0.20	0.016	0.848	0.24	0.015	0.260
Fam134b	NM_025459	ref Mus musculus family with sequence similarity 134, member B (Fam134b), transcript variant 2, mRNA [NM_025459]	0.96	0.037	0.497	-0.30	0.017	0.854	0.99	0.002	0.099
Myh7	NM_080728	ref Mus musculus myosin, heavy polypeptide 7, cardiac muscle, beta (Myh7), mRNA [NM_080728]	0.96	0.004	0.319	-1.01	0.004	0.574	1.64	0.000	0.003
Ifitm1	NM_001112715	ref Mus musculus interferon induced transmembrane protein 1 (Ifitm1), transcript variant 2, mRNA [NM_001112715]	0.96	0.009	0.393	-0.17	0.043	1.000	1.05	0.000	0.014
Gm7676	ENSMUST00000084055	ref PREDICTED: Mus musculus predicted gene, EG665536 (EG665536), mRNA [XM_977607]	0.95	0.010	0.403	-0.21	0.032	1.000	1.05	0.000	0.024
LOC674761	XM_976893	ref PREDICTED: Mus musculus similar to beta myosin heavy chain (LOC674761), mRNA [XM_976893]	0.79	0.004	0.329	-0.89	0.017	0.854	1.22	0.000	0.006
Chpf2	NM_133913	ref Mus musculus chondroitin polymerizing factor 2 (Chpf2), mRNA [NM_133913]	0.52	0.041	0.505	-0.21	0.017	0.863	0.27	0.017	0.278
1600029D21Rik	NM_029639	ref Mus musculus RIKEN cDNA 1600029D21 gene (1600029D21Rik), mRNA [NM_029639]	0.50	0.011	0.407	-0.41	0.014	0.825	0.78	0.003	0.112
Epor	NM_010149	ref Mus musculus erythropoietin receptor (Epor), mRNA [NM_010149]	0.38	0.021	0.449	-0.20	0.028	0.983	0.60	0.002	0.096

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Tenc1	NM_153533	ref Mus musculus tensin like C1 domain-containing phosphatase (Tenc1), mRNA [NM_153533]	0.34	0.049	0.519	-0.16	0.032	1.000	0.46	0.000	0.043
Ldlrad3	NM_178886	ref Mus musculus low density lipoprotein receptor class A domain containing 3 (Ldlrad3), mRNA [NM_178886]	-0.25	0.025	0.463	0.15	0.041	1.000	-0.44	0.000	0.017
Cacna2d2	NM_001174047	ref Mus musculus calcium channel, voltage-dependent, alpha 2/delta subunit 2 (Cacna2d2), transcript variant 1, mRNA [NM_001174047]	-0.28	0.019	0.440	0.48	0.047	1.000	-0.40	0.002	0.100
Whrn	NM_001008791	ref Mus musculus whirlin (Whrn), transcript variant 2, mRNA [NM_001008791]	-0.35	0.022	0.450	0.40	0.002	0.397	-0.74	0.000	0.003
Calm1	NM_009790	ref Mus musculus calmodulin 1 (Calm1), mRNA [NM_009790]	-0.35	0.026	0.470	0.18	0.028	0.983	-0.35	0.017	0.275
chr17:29571806-29603008_F	chr17:29571806-29603008_F	lincRNA:chr17:29571806-29603008 forward strand	-0.35	0.016	0.426	0.28	0.029	0.992	-0.74	0.000	0.011
3110056003Rik	NM_175195	ref Mus musculus RIKEN cDNA 3110056003 gene (3110056003Rik), mRNA [NM_175195]	-0.35	0.032	0.484	0.17	0.041	1.000	-0.44	0.003	0.109
5033430115Rik	ENSMUST000000038032	ens RIKEN cDNA 5033430115 gene Gene [Source:MGI Symbol;Acc:MGI:1923250] [ENSMUST00000038032]	-0.38	0.044	0.512	0.21	0.015	0.831	-0.47	0.016	0.270
Rab3a	NM_001166399	ref Mus musculus RAB3A, member RAS oncogene family (Rab3a), transcript variant 1, mRNA [NM_001166399]	-0.41	0.014	0.413	0.21	0.017	0.858	-0.81	0.001	0.077
Egln3	NM_028133	ref Mus musculus EGL nine homolog 3 (C. elegans) (Egln3), mRNA [NM_028133]	-0.50	0.044	0.512	0.34	0.022	0.922	-0.64	0.010	0.214
Hr	NM_021877	ref Mus musculus hairless (Hr), mRNA [NM_021877]	-0.50	0.038	0.499	0.25	0.024	0.957	-0.50	0.004	0.130
Osta	ENSMUST000000042042	ens organic solute transporter alpha Gene [Source:MGI (curated);Acc:MGI:2146634] [ENSMUST00000042042]	-0.56	0.035	0.495	0.47	0.013	0.810	-0.96	0.001	0.074
chr10:69669025-69686275_F	chr10:69669025-69686275_F	lincRNA:chr10:69669025-69686275 forward strand	-0.65	0.005	0.338	0.18	0.043	1.000	-0.99	0.000	0.007
Arhgef19	NM_172520	ref Mus musculus Rho guanine nucleotide exchange factor (GEF) 19 (Arhgef19), mRNA [NM_172520]	-0.67	0.022	0.453	0.25	0.017	0.854	-0.95	0.001	0.059
Asap3	NM_001008232	ref Mus musculus ArfGAP with SH3 domain, ankyrin repeat and PH domain 3 (Asap3), mRNA [NM_001008232]	-0.68	0.013	0.412	0.18	0.043	1.000	-0.79	0.010	0.208
Cxcl9	NM_008599	ref Mus musculus chemokine (C-X-C motif) ligand 9 (Cxcl9), mRNA [NM_008599]	-0.69	0.043	0.510	0.65	0.036	1.000	-0.57	0.018	0.286
Casq1	NM_009813	ref Mus musculus calsequestrin 1 (Casq1), nuclear gene encoding mitochondrial protein, mRNA [NM_009813]	-0.79	0.027	0.473	0.34	0.035	1.000	-0.94	0.001	0.077
Fam163b	ENSMUST000000009360	ens family with sequence similarity 163, member B Gene [Source:MGI (curated);Acc:MGI:1926106] [ENSMUST00000009360]	-0.81	0.030	0.478	0.42	0.003	0.463	-0.95	0.001	0.054
Mgat3	NM_010795	ref Mus musculus mannoside acetylglucosaminyltransferase 3 (Mgat3), mRNA [NM_010795]	-0.90	0.011	0.406	0.29	0.023	0.946	-1.17	0.001	0.068

Online Supplemental Table IV: All Three Overlap

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Pnpla3	NM_054088	ref Mus musculus patatin-like phospholipase domain containing 3 (Pnpla3), mRNA [NM_054088]	-0.96	0.007	0.377	0.25	0.037	1.000	-1.22	0.000	0.019
Lingo3	NM_001013758	ref Mus musculus leucine rich repeat and Ig domain containing 3 (Lingo3), mRNA [NM_001013758]	-1.12	0.007	0.374	0.27	0.007	0.679	-1.79	0.000	0.029
Rtn4r	NM_022982	ref Mus musculus reticulon 4 receptor (Rtn4r), mRNA [NM_022982]	-1.24	0.015	0.419	0.71	0.007	0.686	-1.20	0.003	0.106
Cln6	NM_001033175	ref Mus musculus ceroid-lipofuscinosis, neuronal 6 (Cln6), mRNA [NM_001033175]	-0.19	0.046	0.513	-0.32	0.001	0.263	-0.20	0.033	0.377
1810043G02Rik	NM_026431	ref Mus musculus RIKEN cDNA 1810043G02 gene (1810043G02Rik), mRNA [NM_026431]	-0.20	0.050	0.520	-0.17	0.041	1.000	-0.27	0.013	0.245
Abhd12	NM_024465	ref Mus musculus abhydrolase domain containing 12 (Abhd12), mRNA [NM_024465]	-0.21	0.046	0.513	-0.23	0.016	0.854	-0.19	0.042	0.426
Mrpl28	NM_024227	ref Mus musculus mitochondrial ribosomal protein L28 (Mrpl28), nuclear gene encoding mitochondrial protein, mRNA [NM_024227]	-0.22	0.039	0.500	-0.17	0.029	0.986	-0.21	0.034	0.384
Gcsh	NM_026572	ref Mus musculus glycine cleavage system protein H (aminomethyl carrier) (Gcsh), nuclear gene encoding mitochondrial protein, mRNA [NM_026572]	-0.22	0.030	0.477	-0.13	0.050	1.000	-0.20	0.021	0.306
Snrnp200	NM_177214	ref Mus musculus small nuclear ribonucleoprotein 200 (U5) (Snrnp200), mRNA [NM_177214]	-0.22	0.032	0.484	-0.20	0.010	0.743	-0.19	0.028	0.348
Adk	NM_134079	ref Mus musculus adenosine kinase (Adk), mRNA [NM_134079]	-0.22	0.023	0.454	-0.13	0.045	1.000	-0.24	0.022	0.310
Glud1	NM_008133	ref Mus musculus glutamate dehydrogenase 1 (Glud1), nuclear gene encoding mitochondrial protein, mRNA [NM_008133]	-0.22	0.018	0.437	-0.29	0.001	0.310	-0.23	0.018	0.282
ENSMUST00000067987	ENSMUST00000067987	ens Putative uncharacterized protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q8CEJ8] [ENSMUST00000067987]	-0.23	0.028	0.474	-0.25	0.019	0.883	-0.35	0.010	0.208
Fam185a	NM_177869	ref Mus musculus family with sequence similarity 185, member A (Fam185a), mRNA [NM_177869]	-0.23	0.031	0.480	-0.18	0.044	1.000	-0.25	0.022	0.314
Ugp2	NM_139297	ref Mus musculus UDP-glucose pyrophosphorylase 2 (Ugp2), mRNA [NM_139297]	-0.24	0.028	0.476	-0.17	0.028	0.983	-0.23	0.024	0.324
L2hgdh	NM_145443	ref Mus musculus L-2-hydroxyglutarate dehydrogenase (L2hgdh), nuclear gene encoding mitochondrial protein, mRNA [NM_145443]	-0.24	0.045	0.513	-0.15	0.026	0.971	-0.32	0.005	0.154
2010015L04Rik	NM_177674	ref Mus musculus RIKEN cDNA 2010015L04 gene (2010015L04Rik), transcript variant 1, mRNA [NM_177674]	-0.25	0.035	0.493	-0.44	0.005	0.621	-0.34	0.043	0.429

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D2Wsu81e	NM_172660	ref Mus musculus DNA segment, Chr 2, Wayne State University 81, expressed (D2Wsu81e), transcript variant 2, mRNA [NM_172660]	-0.25	0.015	0.419	-0.16	0.040	1.000	-0.24	0.008	0.190
Gcsh	NM_026572	ref Mus musculus glycine cleavage system protein H (aminomethyl carrier) (Gcsh), nuclear gene encoding mitochondrial protein, mRNA [NM_026572]	-0.25	0.013	0.412	-0.15	0.036	1.000	-0.23	0.014	0.250
Gm7664	XM_981603	ref PREDICTED: Mus musculus predicted gene, EG665503, transcript variant 2 (EG665503), mRNA [XM_981603]	-0.25	0.015	0.421	-0.15	0.040	1.000	-0.25	0.006	0.161
4933434E20Rik	NM_027500	ref Mus musculus RIKEN cDNA 4933434E20 gene (4933434E20Rik), transcript variant 2, mRNA [NM_027500]	-0.25	0.016	0.426	-0.19	0.023	0.940	-0.27	0.007	0.183
Nprl2	NM_018879	ref Mus musculus nitrogen permease regulator-like 2 (S. cerevisiae) (Nprl2), mRNA [NM_018879]	-0.25	0.021	0.449	-0.15	0.048	1.000	-0.27	0.030	0.362
Mrps27	NM_173757	ref Mus musculus mitochondrial ribosomal protein S27 (Mrps27), nuclear gene encoding mitochondrial protein, mRNA [NM_173757]	-0.25	0.025	0.467	-0.16	0.050	1.000	-0.31	0.002	0.093
ENSMUST00000074662	ENSMUST00000074662	ens leucine rich repeat transmembrane neuronal 4 Gene [Source:MGI (curated);Acc:MGI:2389180] [ENSMUST00000074662]	-0.25	0.040	0.504	-0.17	0.031	0.998	-0.27	0.013	0.240
4933434E20Rik	NM_025762	ref Mus musculus RIKEN cDNA 4933434E20 gene (4933434E20Rik), transcript variant 1, mRNA [NM_025762]	-0.25	0.010	0.403	-0.18	0.028	0.983	-0.38	0.002	0.095
BC004004	NM_030561	ref Mus musculus cDNA sequence BC004004 (BC004004), mRNA [NM_030561]	-0.26	0.021	0.449	-0.24	0.005	0.618	-0.24	0.010	0.208
DII4	NM_019454	ref Mus musculus delta-like 4 (Drosophila) (DII4), mRNA [NM_019454]	-0.26	0.045	0.513	-0.21	0.041	1.000	-0.41	0.001	0.055
Hibadh	NM_145567	ref Mus musculus 3-hydroxyisobutyrate dehydrogenase (Hibadh), mRNA [NM_145567]	-0.26	0.019	0.439	-0.17	0.044	1.000	-0.28	0.018	0.284
chr13:62117000-62164075_R	chr13:62117000-62164075_R	lincRNA:chr13:62117000-62164075 reverse strand	-0.26	0.017	0.429	-0.21	0.019	0.881	-0.30	0.008	0.186
Gm10436	NM_001105254	ref Mus musculus predicted gene 10436 (Gm10436), mRNA [NM_001105254]	-0.28	0.048	0.517	-0.33	0.035	1.000	-0.32	0.018	0.281
Abcc8	NM_011510	ref Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 8 (Abcc8), mRNA [NM_011510]	-0.28	0.041	0.506	-0.36	0.002	0.409	-0.33	0.019	0.293
Ciao1	NM_025296	ref Mus musculus cytosolic iron-sulfur protein assembly 1 homolog (S. cerevisiae) (Ciao1), mRNA [NM_025296]	-0.28	0.033	0.490	-0.15	0.040	1.000	-0.23	0.022	0.314
G6pc3	NM_175935	ref Mus musculus glucose 6 phosphatase, catalytic, 3 (G6pc3), mRNA [NM_175935]	-0.28	0.004	0.336	-0.14	0.042	1.000	-0.26	0.010	0.210

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Hsd17b10	NM_016763	ref Mus musculus hydroxysteroid (17-beta) dehydrogenase 10 (Hsd17b10), nuclear gene encoding mitochondrial protein, mRNA [NM_016763]	-0.28	0.005	0.339	-0.21	0.007	0.663	-0.32	0.003	0.111
Hint2	NM_026871	ref Mus musculus histidine triad nucleotide binding protein 2 (Hint2), nuclear gene encoding mitochondrial protein, mRNA [NM_026871]	-0.28	0.016	0.426	-0.19	0.030	0.998	-0.39	0.001	0.065
Yars2	NM_198246	ref Mus musculus tyrosyl-tRNA synthetase 2 (mitochondrial) (Yars2), nuclear gene encoding mitochondrial protein, mRNA [NM_198246]	-0.29	0.012	0.408	-0.16	0.033	1.000	-0.38	0.001	0.051
Cdk2ap2	NM_026373	ref Mus musculus CDK2-associated protein 2 (Cdk2ap2), mRNA [NM_026373]	-0.29	0.018	0.435	-0.22	0.023	0.935	-0.19	0.041	0.419
Ctdspl	NM_133710	ref Mus musculus CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like (Ctdspl), mRNA [NM_133710]	-0.29	0.043	0.509	-0.29	0.004	0.563	-0.25	0.010	0.208
Stap2	NM_145934	ref Mus musculus signal transducing adaptor family member 2 (Stap2), mRNA [NM_145934]	-0.29	0.021	0.450	-0.20	0.044	1.000	-0.31	0.007	0.171
chr13:74971657-75025450_R	chr13:74971657-75025450_R	lincRNA:chr13:74971657-75025450 reverse strand	-0.30	0.036	0.495	-0.34	0.037	1.000	-0.49	0.027	0.342
Ctdspl	NM_133710	ref Mus musculus CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like (Ctdspl), mRNA [NM_133710]	-0.30	0.032	0.485	-0.27	0.009	0.731	-0.22	0.027	0.345
Msh2	NM_008628	ref Mus musculus mutS homolog 2 (E. coli) (Msh2), mRNA [NM_008628]	-0.31	0.006	0.356	-0.22	0.011	0.770	-0.28	0.004	0.142
Hes6	NM_019479	ref Mus musculus hairy and enhancer of split 6 (Drosophila) (Hes6), mRNA [NM_019479]	-0.31	0.013	0.412	-0.28	0.007	0.686	-0.43	0.000	0.043
Pccb	NM_025835	ref Mus musculus propionyl Coenzyme A carboxylase, beta polypeptide (Pccb), nuclear gene encoding mitochondrial protein, mRNA [NM_025835]	-0.32	0.021	0.449	-0.28	0.004	0.550	-0.43	0.004	0.127
Gm5617	NM_001004191	ref Mus musculus predicted gene 5617 (Gm5617), mRNA [NM_001004191]	-0.32	0.037	0.497	-0.21	0.032	1.000	-0.31	0.018	0.283
Dach1	NM_007826	ref Mus musculus dachshund 1 (Drosophila) (Dach1), transcript variant 1, mRNA [NM_007826]	-0.32	0.022	0.452	-0.30	0.005	0.589	-0.44	0.002	0.094
Ppa1	NM_026438	ref Mus musculus pyrophosphatase (inorganic) 1 (Ppa1), mRNA [NM_026438]	-0.32	0.003	0.308	-0.17	0.044	1.000	-0.26	0.016	0.270
Hrc	NM_010473	ref Mus musculus histidine rich calcium binding protein (Hrc), mRNA [NM_010473]	-0.32	0.011	0.407	-0.21	0.030	0.998	-0.40	0.002	0.103
chr7:50833970-50850878_R	chr7:50833970-50850878_R	lincRNA:chr7:50833970-50850878 reverse strand	-0.32	0.029	0.477	-0.44	0.016	0.851	-0.36	0.017	0.279

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Echs1	NM_053119	ref Mus musculus enoyl Coenzyme A hydratase, short chain, 1, mitochondrial (Echs1), nuclear gene encoding mitochondrial protein, mRNA [NM_053119]	-0.33	0.005	0.349	-0.37	0.000	0.080	-0.28	0.007	0.173
2310046A06Rik	NM_027150	ref Mus musculus RIKEN cDNA 2310046A06 gene (2310046A06Rik), mRNA [NM_027150]	-0.33	0.029	0.477	-0.15	0.042	1.000	-0.27	0.010	0.209
Gm4107	XM_001479448	ref PREDICTED: Mus musculus hypothetical protein LOC100042916 (LOC100042916), mRNA [XM_001479448]	-0.33	0.035	0.494	-0.39	0.007	0.664	-0.46	0.019	0.290
chr17:47022781-47023428_F	chr17:47022781-47023428_F	lincRNA:chr17:47022781-47023428 forward strand	-0.34	0.048	0.518	-0.36	0.027	0.981	-0.29	0.028	0.348
Acad11	NM_175324	ref Mus musculus acyl-Coenzyme A dehydrogenase family, member 11 (Acad11), mRNA [NM_175324]	-0.34	0.013	0.412	-0.22	0.014	0.825	-0.24	0.033	0.378
Hhatl	NM_029095	ref Mus musculus hedgehog acyltransferase-like (Hhatl), transcript variant 1, mRNA [NM_029095]	-0.34	0.010	0.400	-0.23	0.005	0.583	-0.20	0.028	0.348
Plau	NM_008873	ref Mus musculus plasminogen activator, urokinase (Plau), mRNA [NM_008873]	-0.34	0.036	0.495	-0.23	0.043	1.000	-0.37	0.011	0.219
Mns1	NM_008613	ref Mus musculus meiosis-specific nuclear structural protein 1 (Mns1), mRNA [NM_008613]	-0.34	0.009	0.393	-0.32	0.000	0.108	-0.28	0.004	0.137
Cpeb3	NM_198300	ref Mus musculus cytoplasmic polyadenylation element binding protein 3 (Cpeb3), mRNA [NM_198300]	-0.34	0.005	0.349	-0.19	0.017	0.860	-0.40	0.005	0.145
Dach1	NM_007826	ref Mus musculus dachshund 1 (Drosophila) (Dach1), transcript variant 1, mRNA [NM_007826]	-0.34	0.026	0.471	-0.30	0.011	0.766	-0.37	0.008	0.194
chr14:26973425-26986650_R	chr14:26973425-26986650_R	lincRNA:chr14:26973425-26986650 reverse strand	-0.34	0.031	0.480	-0.35	0.014	0.820	-0.39	0.008	0.192
ENSMUST00000112652	ENSMUST00000112652	gb Mus musculus 16 days neonate heart cDNA, RIKEN full-length enriched library, clone:D830032D10 product:unclassifiable, full insert sequence. [AK085942]	-0.35	0.021	0.448	-0.42	0.005	0.621	-0.32	0.035	0.388
Eral1	NM_022313	ref Mus musculus Era (G-protein)-like 1 (E. coli) (Eral1), mRNA [NM_022313]	-0.35	0.001	0.234	-0.19	0.022	0.919	-0.42	0.000	0.032
LOC100046684	XM_001474477	ref PREDICTED: Mus musculus similar to es1 protein, transcript variant 1 (LOC100046684), mRNA [XM_001474477]	-0.35	0.008	0.392	-0.20	0.022	0.928	-0.34	0.003	0.118
Ttc38	NM_001033337	ref Mus musculus tetratricopeptide repeat domain 38 (Ttc38), mRNA [NM_001033337]	-0.35	0.020	0.442	-0.33	0.001	0.263	-0.48	0.012	0.236
Cacnb1	NM_031173	ref Mus musculus calcium channel, voltage-dependent, beta 1 subunit (Cacnb1), transcript variant 1, mRNA [NM_031173]	-0.36	0.015	0.418	-0.35	0.012	0.787	-0.35	0.014	0.253

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Akr7a5	NM_025337	ref Mus musculus aldo-keto reductase family 7, member A5 (aflatoxin aldehyde reductase) (Akr7a5), mRNA [NM_025337]	-0.36	0.009	0.400	-0.15	0.042	1.000	-0.32	0.009	0.204
Bckdha	NM_007533	ref Mus musculus branched chain ketoacid dehydrogenase E1, alpha polypeptide (Bckdha), nuclear gene encoding mitochondrial protein, mRNA [NM_007533]	-0.37	0.014	0.416	-0.32	0.015	0.840	-0.36	0.022	0.311
Hspe1	NM_008303	ref Mus musculus heat shock protein 1 (chaperonin 10) (Hspe1), mRNA [NM_008303]	-0.37	0.018	0.435	-0.19	0.018	0.863	-0.32	0.006	0.157
Brp44l	NM_018819	ref Mus musculus brain protein 44-like (Brp44l), mRNA [NM_018819]	-0.37	0.004	0.312	-0.25	0.005	0.598	-0.40	0.000	0.029
Rmnd1	NM_025343	ref Mus musculus required for meiotic nuclear division 1 homolog (S. cerevisiae) (Rmnd1), mRNA [NM_025343]	-0.37	0.020	0.443	-0.23	0.032	1.000	-0.38	0.005	0.154
Arl6	NM_019665	ref Mus musculus ADP-ribosylation factor-like 6 (Arl6), mRNA [NM_019665]	-0.37	0.001	0.246	-0.17	0.019	0.881	-0.32	0.005	0.156
Ugp2	NM_139297	ref Mus musculus UDP-glucose pyrophosphorylase 2 (Ugp2), mRNA [NM_139297]	-0.37	0.006	0.361	-0.24	0.003	0.471	-0.29	0.010	0.208
Ostm1	NM_172416	ref Mus musculus osteopetrosis associated transmembrane protein 1 (Ostm1), mRNA [NM_172416]	-0.37	0.002	0.266	-0.28	0.011	0.773	-0.39	0.003	0.106
Jam2	ENSMUST00000114195	ensljunction adhesion molecule 2 Gene [Source:MGI (curated);Acc:MGI:1933820] [ENSMUST00000114195]	-0.37	0.007	0.382	-0.27	0.003	0.508	-0.32	0.006	0.170
chr18:61783548-61783935_F	chr18:61783548-61783935_F	lincRNA:chr18:61783548-61783935 forward strand	-0.38	0.028	0.474	-0.85	0.020	0.885	-0.32	0.019	0.291
Dynll2	NM_026556	ref Mus musculus dynein light chain LC8-type 2 (Dynll2), transcript variant 1, mRNA [NM_026556]	-0.38	0.001	0.197	-0.17	0.026	0.973	-0.50	0.000	0.014
1810027O10Rik	NM_026982	ref Mus musculus RIKEN cDNA 1810027O10 gene (1810027O10Rik), mRNA [NM_026982]	-0.38	0.002	0.262	-0.21	0.026	0.974	-0.32	0.008	0.195
Nmnat3	NM_144533	ref Mus musculus nicotinamide nucleotide adenyltransferase 3 (Nmnat3), mRNA [NM_144533]	-0.38	0.002	0.281	-0.20	0.038	1.000	-0.40	0.005	0.146
Slc25a13	NM_015829	ref Mus musculus solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 13 (Slc25a13), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_015829]	-0.38	0.012	0.408	-0.23	0.029	0.986	-0.57	0.000	0.031
Acadsb	NM_025826	ref Mus musculus acyl-Coenzyme A dehydrogenase, short/branched chain (Acadsb), nuclear gene encoding mitochondrial protein, mRNA [NM_025826]	-0.38	0.028	0.474	-0.59	0.000	0.012	-0.30	0.026	0.340
Arhgap28	NM_172964	ref Mus musculus Rho GTPase activating protein 28 (Arhgap28), mRNA [NM_172964]	-0.39	0.040	0.504	-0.19	0.010	0.750	-0.36	0.024	0.324
Smpd1	NM_011421	ref Mus musculus sphingomyelin phosphodiesterase 1, acid lysosomal (Smpd1), mRNA [NM_011421]	-0.39	0.000	0.160	-0.26	0.003	0.471	-0.39	0.000	0.045

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Ppyr1	ENSMUST000000052164	ens pancreatic polypeptide receptor 1 Gene [Source:MGI Symbol;Acc:MGI:105374] [ENSMUST000000052164]	-0.39	0.017	0.432	-0.42	0.007	0.674	-0.36	0.016	0.272
Mccc1	NM_023644	ref Mus musculus methylcrotonoyl-Coenzyme A carboxylase 1 (alpha) (Mccc1), nuclear gene encoding mitochondrial protein, mRNA [NM_023644]	-0.39	0.021	0.448	-0.35	0.004	0.513	-0.25	0.044	0.432
Yif1b	NM_029887	ref Mus musculus Yip1 interacting factor homolog B (S. cerevisiae) (Yif1b), transcript variant 1, mRNA [NM_029887]	-0.39	0.003	0.281	-0.20	0.038	1.000	-0.26	0.023	0.317
LOC100038980	XM_001472087	ref PREDICTED: Mus musculus hypothetical protein LOC100038980 (LOC100038980), mRNA [XM_001472087]	-0.39	0.016	0.426	-0.30	0.001	0.263	-0.27	0.006	0.168
Cd320	NM_019421	ref Mus musculus CD320 antigen (Cd320), mRNA [NM_019421]	-0.39	0.002	0.262	-0.41	0.001	0.214	-0.35	0.004	0.133
Kank2	NM_145611	ref Mus musculus KN motif and ankyrin repeat domains 2 (Kank2), mRNA [NM_145611]	-0.39	0.003	0.281	-0.20	0.029	0.986	-0.48	0.007	0.179
Syt7	NM_173068	ref Mus musculus synaptotagmin VII (Syt7), transcript variant 3, mRNA [NM_173068]	-0.39	0.022	0.452	-0.38	0.041	1.000	-0.60	0.027	0.343
C330016O10Rik	NM_145974	ref Mus musculus RIKEN cDNA C330016O10 gene (C330016O10Rik), mRNA [NM_145974]	-0.39	0.014	0.417	-0.31	0.002	0.343	-0.24	0.026	0.341
Slc37a2	NM_020258	ref Mus musculus solute carrier family 37 (glycerol-3-phosphate transporter), member 2 (Slc37a2), transcript variant 2, mRNA [NM_020258]	-0.40	0.006	0.365	-0.31	0.007	0.675	-0.50	0.001	0.053
Acy3	NM_027857	ref Mus musculus aspartoacylase (aminoacylase) 3 (Acy3), mRNA [NM_027857]	-0.40	0.003	0.290	-0.25	0.026	0.971	-0.34	0.019	0.294
Mapkapk5	NM_010765	ref Mus musculus MAP kinase-activated protein kinase 5 (Mapkapk5), mRNA [NM_010765]	-0.40	0.001	0.242	-0.19	0.030	0.998	-0.40	0.001	0.053
Shd	NM_009168	ref Mus musculus src homology 2 domain-containing transforming protein D (Shd), transcript variant 2, mRNA [NM_009168]	-0.40	0.003	0.281	-0.28	0.014	0.812	-0.41	0.001	0.060
Wdr18	NM_175450	ref Mus musculus WD repeat domain 18 (Wdr18), mRNA [NM_175450]	-0.40	0.002	0.281	-0.25	0.003	0.488	-0.43	0.000	0.041
Ethe1	NM_023154	ref Mus musculus ethylmalonic encephalopathy 1 (Ethe1), nuclear gene encoding mitochondrial protein, mRNA [NM_023154]	-0.40	0.001	0.234	-0.22	0.022	0.933	-0.39	0.001	0.070
Sypl2	NM_008596	ref Mus musculus synaptophysin-like 2 (Sypl2), mRNA [NM_008596]	-0.40	0.015	0.418	-0.42	0.019	0.883	-0.55	0.006	0.167
chr15:96984422-97000322_F	chr15:96984422-97000322_F	lincRNA:chr15:96984422-97000322 forward strand	-0.40	0.050	0.520	-0.40	0.032	1.000	-0.41	0.005	0.154

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Pgam2	NM_018870	ref Mus musculus phosphoglycerate mutase 2 (Pgam2), mRNA [NM_018870]	-0.41	0.007	0.384	-0.18	0.016	0.851	-0.29	0.011	0.218
Yipf7	NM_023784	ref Mus musculus Yip1 domain family, member 7 (Yipf7), mRNA [NM_023784]	-0.41	0.011	0.407	-0.19	0.023	0.943	-0.28	0.027	0.347
C1qtnf9	NM_183175	ref Mus musculus C1q and tumor necrosis factor related protein 9 (C1qtnf9), mRNA [NM_183175]	-0.41	0.034	0.493	-0.24	0.006	0.636	-0.47	0.003	0.117
Fat2	NM_001029988	ref Mus musculus FAT tumor suppressor homolog 2 (Drosophila) (Fat2), mRNA [NM_001029988]	-0.41	0.001	0.227	-0.27	0.003	0.457	-0.43	0.000	0.035
ENSMUST00000087066	ENSMUST00000087066	ens ectonucleotide pyrophosphatase/phosphodiesterase 5 Gene [Source:MGI (curated);Acc:MGI:1933830] [ENSMUST00000087066]	-0.41	0.004	0.312	-0.28	0.004	0.532	-0.35	0.006	0.162
Jam2	NM_023844	ref Mus musculus junction adhesion molecule 2 (Jam2), mRNA [NM_023844]	-0.42	0.002	0.257	-0.42	0.000	0.192	-0.33	0.003	0.107
Pcca	NM_144844	ref Mus musculus propionyl-Coenzyme A carboxylase, alpha polypeptide (Pcca), mRNA [NM_144844]	-0.42	0.003	0.286	-0.35	0.001	0.309	-0.40	0.003	0.116
chrX:120300373-120302404_F	chrX:120300373-120302404_F	lincRNA:chrX:120300373-120302404 forward strand	-0.42	0.021	0.448	-0.27	0.022	0.935	-0.33	0.016	0.269
Lipg	NM_010720	ref Mus musculus lipase, endothelial (Lipg), mRNA [NM_010720]	-0.42	0.013	0.412	-0.50	0.004	0.535	-0.63	0.013	0.242
chr18:90750100-90772025_F	chr18:90750100-90772025_F	lincRNA:chr18:90750100-90772025 forward strand	-0.42	0.014	0.412	-0.44	0.002	0.343	-0.41	0.015	0.261
Mccc1	NM_023644	ref Mus musculus methylcrotonoyl-Coenzyme A carboxylase 1 (alpha) (Mccc1), nuclear gene encoding mitochondrial protein, mRNA [NM_023644]	-0.42	0.004	0.312	-0.35	0.001	0.256	-0.30	0.007	0.182
ENSMUST00000078094	ENSMUST00000078094	ens transmembrane protein 116 Gene [Source:MGI (curated);Acc:MGI:1924712] [ENSMUST00000078094]	-0.42	0.009	0.397	-0.26	0.034	1.000	-0.32	0.016	0.272
Ldhd	NM_027570	ref Mus musculus lactate dehydrogenase D (Ldhd), nuclear gene encoding mitochondrial protein, mRNA [NM_027570]	-0.42	0.046	0.513	-0.21	0.044	1.000	-0.46	0.011	0.223
Fdxr	NM_007997	ref Mus musculus ferredoxin reductase (Fdxr), nuclear gene encoding mitochondrial protein, mRNA [NM_007997]	-0.43	0.001	0.213	-0.31	0.008	0.708	-0.27	0.048	0.450
4732415M23Rik	NM_177279	ref Mus musculus RIKEN cDNA 4732415M23 gene (4732415M23Rik), mRNA [NM_177279]	-0.43	0.008	0.390	-0.25	0.011	0.770	-0.48	0.005	0.154
Pxmp2	NM_008993	ref Mus musculus peroxisomal membrane protein 2 (Pxmp2), mRNA [NM_008993]	-0.43	0.002	0.272	-0.47	0.000	0.080	-0.47	0.002	0.099
Avpr1a	NM_016847	ref Mus musculus arginine vasopressin receptor 1A (Avpr1a), mRNA [NM_016847]	-0.43	0.028	0.476	-0.18	0.034	1.000	-0.51	0.015	0.263
Mpnd	NM_026530	ref Mus musculus MPN domain containing (Mpnd), mRNA [NM_026530]	-0.43	0.000	0.153	-0.35	0.000	0.118	-0.32	0.001	0.059

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Tnfsf12-Tnfsf13	NM_001034097	ref Mus musculus Tnfsf12-tnfsf13 readthrough transcript (Tnfsf12-Tnfsf13), transcript variant 1, mRNA [NM_001034097]	-0.44	0.001	0.163	-0.28	0.001	0.275	-0.81	0.043	0.426
Prr15l	NM_146026	ref Mus musculus proline rich 15-like (Prr15l), mRNA [NM_146026]	-0.44	0.032	0.484	-0.50	0.019	0.881	-0.55	0.007	0.171
Slc2a4	NM_009204	ref Mus musculus solute carrier family 2 (facilitated glucose transporter), member 4 (Slc2a4), mRNA [NM_009204]	-0.44	0.009	0.394	-0.23	0.010	0.762	-0.67	0.000	0.018
Gstm6	NM_008184	ref Mus musculus glutathione S-transferase, mu 6 (Gstm6), mRNA [NM_008184]	-0.45	0.006	0.366	-0.62	0.001	0.259	-0.37	0.010	0.214
XM_001480127	XM_001480127	ref PREDICTED: Mus musculus hypothetical protein LOC100043421 (LOC100043421), mRNA [XM_001480127]	-0.45	0.029	0.477	-0.38	0.018	0.868	-0.35	0.026	0.336
Gm1631	NM_201366	ref Mus musculus predicted gene 1631 (Gm1631), mRNA [NM_201366]	-0.45	0.040	0.504	-0.35	0.022	0.926	-0.39	0.022	0.310
Tcea3	NM_011542	ref Mus musculus transcription elongation factor A (SII), 3 (Tcea3), mRNA [NM_011542]	-0.45	0.015	0.419	-0.30	0.026	0.973	-0.54	0.009	0.199
Ppara	NM_011144	ref Mus musculus peroxisome proliferator activated receptor alpha (Ppara), transcript variant 1, mRNA [NM_011144]	-0.45	0.039	0.499	-0.21	0.043	1.000	-0.32	0.013	0.242
Stmn1	NM_019641	ref Mus musculus stathmin 1 (Stmn1), mRNA [NM_019641]	-0.45	0.013	0.412	-0.30	0.005	0.621	-0.48	0.001	0.052
Stmn1-rs2	XR_034760	ref PREDICTED: Mus musculus similar to Stathmin 1/oncoprotein 18 (LOC623112), misc RNA [XR_034760]	-0.45	0.009	0.394	-0.30	0.006	0.661	-0.50	0.000	0.043
Plxnb1	NM_172775	ref Mus musculus plexin B1 (Plxnb1), mRNA [NM_172775]	-0.46	0.007	0.375	-0.21	0.044	1.000	-0.64	0.000	0.030
Mccc2	NM_030026	ref Mus musculus methylcrotonoyl-Coenzyme A carboxylase 2 (beta) (Mccc2), nuclear gene encoding mitochondrial protein, mRNA [NM_030026]	-0.46	0.018	0.437	-0.31	0.014	0.825	-0.48	0.009	0.200
Ttc38	NM_001033337	ref Mus musculus tetratricopeptide repeat domain 38 (Ttc38), mRNA [NM_001033337]	-0.46	0.006	0.369	-0.41	0.001	0.275	-0.37	0.005	0.145
Mut	NM_008650	ref Mus musculus methylmalonyl-Coenzyme A mutase (Mut), nuclear gene encoding mitochondrial protein, mRNA [NM_008650]	-0.46	0.001	0.231	-0.35	0.001	0.237	-0.35	0.003	0.107
Cd28	NM_007642	ref Mus musculus CD28 antigen (Cd28), mRNA [NM_007642]	-0.46	0.006	0.356	-0.40	0.002	0.391	-0.44	0.006	0.162
Sort1	NM_019972	ref Mus musculus sortilin 1 (Sort1), mRNA [NM_019972]	-0.46	0.008	0.391	-0.40	0.015	0.840	-0.57	0.000	0.042
Sept4	NM_011129	ref Mus musculus septin 4 (Sept4), mRNA [NM_011129]	-0.46	0.013	0.412	-0.19	0.022	0.922	-0.48	0.004	0.135

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Rab37	NM_001163753	ref Mus musculus RAB37, member of RAS oncogene family (Rab37), transcript variant 2, mRNA [NM_001163753]	-0.46	0.007	0.384	-0.17	0.048	1.000	-0.46	0.015	0.266
4931440J10Rik	AK028863	gb Mus musculus 10 days neonate skin cDNA, RIKEN full-length enriched library, clone:4732464K16 product:unclassifiable, full insert sequence. [AK028863]	-0.46	0.029	0.477	-0.22	0.009	0.720	-0.42	0.000	0.045
Pfkfb4	NM_173019	ref Mus musculus 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 (Pfkfb4), mRNA [NM_173019]	-0.47	0.001	0.248	-0.26	0.003	0.488	-0.48	0.002	0.099
LOC674373	XR_031198	ref PREDICTED: Mus musculus similar to elongation initiation factor 4E (LOC674373), misc RNA [XR_031198]	-0.47	0.016	0.428	-0.26	0.032	1.000	-0.53	0.026	0.341
Eif4e	NM_007917	ref Mus musculus eukaryotic translation initiation factor 4E (Eif4e), mRNA [NM_007917]	-0.47	0.020	0.441	-0.25	0.018	0.864	-0.38	0.041	0.421
Slc25a38	NM_144793	ref Mus musculus solute carrier family 25, member 38 (Slc25a38), nuclear gene encoding mitochondrial protein, mRNA [NM_144793]	-0.48	0.004	0.308	-0.37	0.000	0.172	-0.52	0.000	0.025
Cacna2d3	NM_009785	ref Mus musculus calcium channel, voltage-dependent, alpha2/delta subunit 3 (Cacna2d3), mRNA [NM_009785]	-0.48	0.021	0.447	-0.38	0.028	0.984	-0.50	0.005	0.150
Zmat4	NM_177086	ref Mus musculus zinc finger, matrin type 4 (Zmat4), mRNA [NM_177086]	-0.48	0.001	0.248	-0.40	0.009	0.736	-0.40	0.042	0.425
Pyroxd2	NM_029011	ref Mus musculus pyridine nucleotide-disulphide oxidoreductase domain 2 (Pyroxd2), mRNA [NM_029011]	-0.48	0.002	0.279	-0.33	0.006	0.628	-0.28	0.028	0.352
Mrgprx1	NM_207540	ref Mus musculus MAS-related GPR, member X1 (Mrgprx1), mRNA [NM_207540]	-0.48	0.006	0.369	-0.57	0.012	0.786	-0.38	0.012	0.232
Stk39	NM_016866	ref Mus musculus serine/threonine kinase 39, STE20/SPS1 homolog (yeast) (Stk39), mRNA [NM_016866]	-0.48	0.003	0.303	-0.35	0.007	0.672	-0.57	0.004	0.126
LOC632707	XR_031558	ref PREDICTED: Mus musculus similar to heterogeneous nuclear ribonucleoprotein A3 (LOC632707), misc RNA [XR_031558]	-0.48	0.029	0.477	-0.48	0.018	0.878	-0.43	0.012	0.234
Cdk5r1	NM_009871	ref Mus musculus cyclin-dependent kinase 5, regulatory subunit 1 (p35) (Cdk5r1), mRNA [NM_009871]	-0.49	0.001	0.246	-0.31	0.029	0.986	-0.54	0.001	0.059
Gm2252	XM_001472980	ref PREDICTED: Mus musculus hypothetical protein LOC100039465 (LOC100039465), mRNA [XM_001472980]	-0.49	0.012	0.408	-0.44	0.011	0.777	-0.85	0.000	0.012
Yif1b	NM_029887	ref Mus musculus Yip1 interacting factor homolog B (S. cerevisiae) (Yif1b), transcript variant 1, mRNA [NM_029887]	-0.49	0.002	0.279	-0.20	0.013	0.808	-0.29	0.014	0.259
Lrrc30	NM_001033340	ref Mus musculus leucine rich repeat containing 30 (Lrrc30), mRNA [NM_001033340]	-0.49	0.002	0.264	-0.39	0.037	1.000	-0.69	0.000	0.031

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Ttc38	NM_001033337	ref Mus musculus tetratricopeptide repeat domain 38 (Ttc38), mRNA [NM_001033337]	-0.50	0.002	0.262	-0.42	0.000	0.145	-0.40	0.007	0.176
Rnft2	NM_172998	ref Mus musculus ring finger protein, transmembrane 2 (Rnft2), transcript variant 1, mRNA [NM_172998]	-0.50	0.005	0.349	-0.27	0.016	0.843	-0.63	0.004	0.130
Dcxr	NM_026428	ref Mus musculus dicarbonyl L-xylulose reductase (Dcxr), mRNA [NM_026428]	-0.50	0.005	0.355	-0.71	0.000	0.044	-0.45	0.001	0.075
Gbp2	NM_010260	ref Mus musculus guanylate binding protein 2 (Gbp2), mRNA [NM_010260]	-0.50	0.021	0.448	-0.18	0.043	1.000	-0.30	0.014	0.253
Cpne4	NM_028719	ref Mus musculus copine IV (Cpne4), mRNA [NM_028719]	-0.50	0.001	0.183	-0.60	0.001	0.214	-0.69	0.000	0.027
Tmod4	NM_016712	ref Mus musculus tropomodulin 4 (Tmod4), mRNA [NM_016712]	-0.50	0.002	0.279	-0.40	0.026	0.971	-0.54	0.003	0.116
Kif26b	NM_001161665	ref Mus musculus kinesin family member 26B (Kif26b), mRNA [NM_001161665]	-0.50	0.002	0.275	-0.62	0.001	0.256	-0.48	0.008	0.184
Snrnp25	NM_030093	ref Mus musculus small nuclear ribonucleoprotein 25 (U11/U12) (Snrnp25), mRNA [NM_030093]	-0.51	0.000	0.090	-0.16	0.047	1.000	-0.66	0.000	0.002
Nrg4	NM_032002	ref Mus musculus neuregulin 4 (Nrg4), mRNA [NM_032002]	-0.51	0.016	0.425	-0.31	0.046	1.000	-0.45	0.005	0.150
chr7:4828654-4843713_F	chr7:4828654-4843713_F	lincRNA:chr7:4828654-4843713 forward strand	-0.51	0.001	0.222	-0.31	0.006	0.655	-0.46	0.003	0.114
Meox2	NM_008584	ref Mus musculus mesenchyme homeobox 2 (Meox2), mRNA [NM_008584]	-0.52	0.016	0.425	-0.25	0.020	0.895	-0.38	0.017	0.276
Acot7	NM_133348	ref Mus musculus acyl-CoA thioesterase 7 (Acot7), transcript variant 2, mRNA [NM_133348]	-0.53	0.002	0.254	-0.23	0.019	0.881	-0.44	0.001	0.077
Pfkfb2	NM_001162415	ref Mus musculus 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 (Pfkfb2), transcript variant 2, mRNA [NM_001162415]	-0.53	0.004	0.312	-0.25	0.008	0.694	-0.65	0.000	0.019
Mvk	NM_023556	ref Mus musculus mevalonate kinase (Mvk), mRNA [NM_023556]	-0.53	0.000	0.095	-0.27	0.006	0.643	-0.55	0.000	0.019
Mmab	NM_029956	ref Mus musculus methylmalonic aciduria (cobalamin deficiency) type B homolog (human) (Mmab), nuclear gene encoding mitochondrial protein, mRNA [NM_029956]	-0.53	0.002	0.258	-0.46	0.000	0.137	-0.38	0.008	0.192
Prkcζ	NM_008860	ref Mus musculus protein kinase C, zeta (Prkcζ), transcript variant 1, mRNA [NM_008860]	-0.54	0.009	0.398	-0.23	0.049	1.000	-0.47	0.014	0.251
chr4:140609589-140614789_F	chr4:140609589-140614789_F	lincRNA:chr4:140609589-140614789 forward strand	-0.54	0.004	0.308	-0.69	0.013	0.802	-0.64	0.007	0.182
Tspan12	NM_173007	ref Mus musculus tetraspanin 12 (Tspan12), mRNA [NM_173007]	-0.54	0.003	0.299	-0.23	0.007	0.674	-0.35	0.040	0.414
Pcyt2	NM_024229	ref Mus musculus phosphate cytidylyltransferase 2, ethanolamine (Pcyt2), mRNA [NM_024229]	-0.54	0.000	0.090	-0.27	0.002	0.367	-0.66	0.000	0.004

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Rab37	NM_001163753	ref Mus musculus RAB37, member of RAS oncogene family (Rab37), transcript variant 2, mRNA [NM_001163753]	-0.55	0.002	0.278	-0.17	0.050	1.000	-0.44	0.007	0.183
Psmb9	NM_013585	ref Mus musculus proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2) (Psmb9), mRNA [NM_013585]	-0.55	0.032	0.485	-0.24	0.023	0.935	-0.45	0.017	0.274
Ivd	NM_019826	ref Mus musculus isovaleryl coenzyme A dehydrogenase (Ivd), nuclear gene encoding mitochondrial protein, mRNA [NM_019826]	-0.55	0.001	0.197	-0.59	0.000	0.013	-0.46	0.006	0.157
Cyb5	NM_025797	ref Mus musculus cytochrome b-5 (Cyb5), mRNA [NM_025797]	-0.55	0.000	0.110	-0.49	0.000	0.020	-0.36	0.000	0.041
Kcnk1	NM_008430	ref Mus musculus potassium channel, subfamily K, member 1 (Kcnk1), mRNA [NM_008430]	-0.55	0.008	0.392	-0.29	0.039	1.000	-0.50	0.005	0.155
Bcat2	NM_009737	ref Mus musculus branched chain aminotransferase 2, mitochondrial (Bcat2), nuclear gene encoding mitochondrial protein, mRNA [NM_009737]	-0.55	0.000	0.148	-0.54	0.000	0.113	-0.33	0.028	0.353
Tbc1d10c	NM_178650	ref Mus musculus TBC1 domain family, member 10c (Tbc1d10c), mRNA [NM_178650]	-0.55	0.010	0.403	-0.38	0.041	1.000	-0.60	0.017	0.278
Mpv17l	NM_033564	ref Mus musculus Mpv17 transgene, kidney disease mutant-like (Mpv17l), nuclear gene encoding mitochondrial protein, mRNA [NM_033564]	-0.55	0.003	0.283	-0.47	0.012	0.793	-0.47	0.020	0.300
Isoc2a	NM_001101598	ref Mus musculus isochorismatase domain containing 2a (Isoc2a), nuclear gene encoding mitochondrial protein, mRNA [NM_001101598]	-0.56	0.002	0.281	-0.35	0.001	0.217	-0.52	0.005	0.155
Gm4324	XM_001478262	ref PREDICTED: Mus musculus similar to hCG1657343 (LOC100047488), mRNA [XM_001478262]	-0.56	0.008	0.390	-0.44	0.029	0.986	-0.66	0.003	0.117
1190003J15Rik	NM_029821	ref Mus musculus RIKEN cDNA 1190003J15 gene (1190003J15Rik), mRNA [NM_029821]	-0.56	0.003	0.285	-0.31	0.038	1.000	-0.66	0.001	0.051
chr13:78370478-78371404_F	chr13:78370478-78371404_F	lincRNA:chr13:78370478-78371404 forward strand	-0.56	0.001	0.245	-0.41	0.025	0.965	-0.50	0.002	0.094
Tmem180	NM_029186	ref Mus musculus transmembrane protein 180 (Tmem180), mRNA [NM_029186]	-0.56	0.001	0.248	-0.25	0.008	0.694	-0.34	0.003	0.123
Slc7a4	NM_144852	ref Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 4 (Slc7a4), mRNA [NM_144852]	-0.57	0.000	0.154	-0.31	0.001	0.331	-0.78	0.000	0.013
Clec4b1	NM_001190310	ref Mus musculus C-type lectin domain family 4, member b1 (Clec4b1), transcript variant 1, mRNA [NM_001190310]	-0.57	0.002	0.266	-0.39	0.018	0.874	-0.32	0.038	0.406
Dcaf12l1	NM_178739	ref Mus musculus DDB1 and CUL4 associated factor 12-like 1 (Dcaf12l1), mRNA [NM_178739]	-0.57	0.005	0.339	-0.27	0.043	1.000	-0.58	0.026	0.342

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Mmab	NM_029956	ref Mus musculus methylmalonic aciduria (cobalamin deficiency) type B homolog (human) (Mmab), nuclear gene encoding mitochondrial protein, mRNA [NM_029956]	-0.57	0.001	0.184	-0.47	0.000	0.027	-0.47	0.000	0.027
1700072E05Rik	NM_028554	ref Mus musculus RIKEN cDNA 1700072E05 gene (1700072E05Rik), mRNA [NM_028554]	-0.57	0.032	0.485	-0.72	0.013	0.802	-0.43	0.028	0.349
Klra1	NM_016659	ref Mus musculus killer cell lectin-like receptor, subfamily A, member 1 (Klra1), mRNA [NM_016659]	-0.57	0.003	0.299	-0.33	0.027	0.982	-0.53	0.006	0.170
Cdh16	NM_007663	ref Mus musculus cadherin 16 (Cdh16), mRNA [NM_007663]	-0.58	0.001	0.169	-0.64	0.000	0.053	-0.48	0.000	0.041
Gstk1	NM_029555	ref Mus musculus glutathione S-transferase kappa 1 (Gstk1), nuclear gene encoding mitochondrial protein, mRNA [NM_029555]	-0.58	0.001	0.167	-0.38	0.001	0.263	-0.65	0.000	0.034
Dctpp1	NM_023203	ref Mus musculus dCTP pyrophosphatase 1 (Dctpp1), mRNA [NM_023203]	-0.58	0.003	0.281	-0.17	0.020	0.895	-0.43	0.002	0.093
BC016495	NM_145497	ref Mus musculus cDNA sequence BC016495 (BC016495), mRNA [NM_145497]	-0.58	0.001	0.234	-0.24	0.018	0.874	-0.59	0.001	0.061
Pfn4	NM_028376	ref Mus musculus profilin family, member 4 (Pfn4), mRNA [NM_028376]	-0.58	0.008	0.392	-0.21	0.043	1.000	-0.49	0.004	0.130
ENSMUST00000105667	ENSMUST00000105667	ens Novel protein [Source:UniProtKB/TrEMBL;Acc:A2A899] [ENSMUST00000105667]	-0.58	0.001	0.188	-0.27	0.043	1.000	-0.80	0.000	0.019
Sept4	NM_011129	ref Mus musculus septin 4 (Sept4), mRNA [NM_011129]	-0.59	0.008	0.391	-0.17	0.032	1.000	-0.43	0.003	0.117
Ccbl2	NM_173763	ref Mus musculus cysteine conjugate-beta lyase 2 (Ccbl2), mRNA [NM_173763]	-0.59	0.013	0.412	-0.75	0.000	0.012	-0.47	0.012	0.238
Rpl7a-ps8	ENSMUST00000094754	ref PREDICTED: Mus musculus predicted gene, EG243872 (EG243872), mRNA [XM_905543]	-0.59	0.000	0.117	-0.28	0.012	0.793	-0.66	0.001	0.059
Scin	NM_009132	ref Mus musculus scinderin (Scin), transcript variant 2, mRNA [NM_009132]	-0.59	0.010	0.400	-0.58	0.012	0.786	-0.44	0.012	0.237
Hn1l	NM_198937	ref Mus musculus hematological and neurological expressed 1-like (Hn1l), mRNA [NM_198937]	-0.59	0.002	0.281	-0.23	0.047	1.000	-0.44	0.020	0.295
Slc25a29	NM_181328	ref Mus musculus solute carrier family 25 (mitochondrial carrier, palmitoylcarnitine transporter), member 29 (Slc25a29), nuclear gene encoding mitochondrial protein, mRNA [NM_181328]	-0.59	0.002	0.262	-0.28	0.004	0.561	-0.81	0.000	0.002
Hist2h2aa1	NM_013549	ref Mus musculus histone cluster 2, H2aa1 (Hist2h2aa1), mRNA [NM_013549]	-0.60	0.001	0.167	-0.26	0.005	0.588	-0.58	0.000	0.029
Aass	NM_013930	ref Mus musculus aminoadipate-semialdehyde synthase (Aass), nuclear gene encoding mitochondrial protein, mRNA [NM_013930]	-0.60	0.003	0.305	-0.54	0.014	0.820	-0.86	0.001	0.053

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Coq10a	NM_001081040	ref Mus musculus coenzyme Q10 homolog A (yeast) (Coq10a), nuclear gene encoding mitochondrial protein, mRNA [NM_001081040]	-0.60	0.000	0.136	-0.34	0.000	0.131	-0.57	0.000	0.038
2900060N18Rik	AK077811	gb Mus musculus adult male thymus cDNA, RIKEN full-length enriched library, clone:5830496N14 product:unclassifiable, full insert sequence. [AK077811]	-0.60	0.023	0.454	-0.45	0.029	0.990	-0.37	0.028	0.349
Sun3	NM_177576	ref Mus musculus Sad1 and UNC84 domain containing 3 (Sun3), mRNA [NM_177576]	-0.60	0.007	0.384	-0.67	0.000	0.022	-0.82	0.015	0.260
Calhm3	XM_001472011	ref PREDICTED: Mus musculus predicted gene, EG240669 (EG240669), mRNA [XM_001472011]	-0.61	0.000	0.092	-0.59	0.010	0.746	-0.66	0.003	0.114
chr7:4827340-4863315_F	chr7:4827340-4863315_F	lincRNA:chr7:4827340-4863315 forward strand	-0.61	0.001	0.197	-0.43	0.001	0.200	-0.57	0.002	0.085
Echdc3	NM_024208	ref Mus musculus enoyl Coenzyme A hydratase domain containing 3 (Echdc3), nuclear gene encoding mitochondrial protein, mRNA [NM_024208]	-0.61	0.007	0.370	-0.27	0.007	0.686	-0.84	0.000	0.045
chr4:11899775-11931875_F	chr4:11899775-11931875_F	lincRNA:chr4:11899775-11931875 forward strand	-0.62	0.002	0.279	-0.21	0.043	1.000	-0.69	0.000	0.021
Ift81	NM_009879	ref Mus musculus intraflagellar transport 81 homolog (Chlamydomonas) (Ift81), mRNA [NM_009879]	-0.62	0.001	0.206	-0.34	0.003	0.488	-0.52	0.001	0.060
chr7:4827340-4863315_F	chr7:4827340-4863315_F	lincRNA:chr7:4827340-4863315 forward strand	-0.62	0.002	0.262	-0.28	0.011	0.766	-0.80	0.001	0.069
Hsph1	NM_013559	ref Mus musculus heat shock 105kDa/110kDa protein 1 (Hsph1), mRNA [NM_013559]	-0.62	0.016	0.428	-0.26	0.011	0.766	-0.54	0.001	0.080
Klra9	NM_010651	ref Mus musculus killer cell lectin-like receptor subfamily A, member 9 (Klra9), mRNA [NM_010651]	-0.63	0.002	0.262	-0.36	0.025	0.957	-0.62	0.000	0.030
Prodh	NM_011172	ref Mus musculus proline dehydrogenase (Prodh), nuclear gene encoding mitochondrial protein, mRNA [NM_011172]	-0.63	0.003	0.308	-0.43	0.001	0.317	-0.40	0.041	0.419
Alkbh7	NM_025538	ref Mus musculus alkB, alkylation repair homolog 7 (E. coli) (Alkbh7), mRNA [NM_025538]	-0.63	0.000	0.160	-0.19	0.025	0.963	-0.56	0.000	0.026
Gm9961	NR_033509	ref Mus musculus predicted gene 9961 (Gm9961), non-coding RNA [NR_033509]	-0.64	0.000	0.095	-0.70	0.000	0.059	-0.37	0.017	0.279
Aldh1l1	NM_027406	ref Mus musculus aldehyde dehydrogenase 1 family, member L1 (Aldh1l1), mRNA [NM_027406]	-0.64	0.022	0.452	-0.82	0.001	0.218	-0.85	0.003	0.112
Rimk1a	NM_177572	ref Mus musculus ribosomal modification protein rimK-like family member A (Rimk1a), mRNA [NM_177572]	-0.64	0.000	0.095	-0.32	0.022	0.917	-0.67	0.000	0.042
Ccdc46	NM_029606	ref Mus musculus coiled-coil domain containing 46 (Ccdc46), transcript variant 2, mRNA [NM_029606]	-0.64	0.022	0.452	-0.41	0.001	0.292	-0.30	0.020	0.297
Pdp2	NM_001024606	ref Mus musculus pyruvate dehydrogenase phosphatase catalytic subunit 2 (Pdp2), mRNA [NM_001024606]	-0.64	0.002	0.258	-0.39	0.004	0.550	-0.81	0.000	0.010

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
chr2:77152807-77155092_R	chr2:77152807-77155092_R	lincRNA:chr2:77152807-77155092 reverse strand	-0.65	0.002	0.258	-0.42	0.002	0.371	-0.76	0.000	0.029
Srrm4	NM_026886	ref Mus musculus serine/arginine repetitive matrix 4 (Srrm4), mRNA [NM_026886]	-0.65	0.010	0.402	-0.36	0.007	0.679	-0.32	0.028	0.353
chr7:4827340-4863315_F	chr7:4827340-4863315_F	lincRNA:chr7:4827340-4863315 forward strand	-0.65	0.001	0.226	-0.44	0.000	0.094	-0.59	0.001	0.071
Gm6684	XM_891145	ref PREDICTED: Mus musculus predicted gene, EG626549 (EG626549), mRNA [XM_891145]	-0.66	0.000	0.104	-0.44	0.000	0.042	-0.58	0.000	0.013
Ubash3b	ENSMUST00000044155	ens ubiquitin associated and SH3 domain containing, B Gene [Source:MGI (curated);Acc:MGI:1920078] [ENSMUST00000044155]	-0.66	0.012	0.412	-0.25	0.005	0.587	-0.66	0.006	0.156
Hist1h3g	NM_145073	ref Mus musculus histone cluster 1, H3g (Hist1h3g), mRNA [NM_145073]	-0.66	0.004	0.312	-0.30	0.007	0.674	-0.66	0.000	0.029
Ccbl2	NM_173763	ref Mus musculus cysteine conjugate-beta lyase 2 (Ccbl2), mRNA [NM_173763]	-0.66	0.002	0.248	-0.84	0.000	0.003	-0.56	0.000	0.030
Hsph1	NM_013559	ref Mus musculus heat shock 105kDa/110kDa protein 1 (Hsph1), mRNA [NM_013559]	-0.67	0.015	0.418	-0.24	0.020	0.894	-0.53	0.002	0.086
Celsr1	NM_009886	ref Mus musculus cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, Drosophila) (Celsr1), mRNA [NM_009886]	-0.67	0.000	0.064	-0.44	0.000	0.159	-0.75	0.000	0.029
Armc2	NM_001034858	ref Mus musculus armadillo repeat containing 2 (Armc2), mRNA [NM_001034858]	-0.68	0.008	0.389	-0.91	0.000	0.008	-0.41	0.049	0.455
chr17:13020750-13033750_R	chr17:13020750-13033750_R	lincRNA:chr17:13020750-13033750 reverse strand	-0.68	0.011	0.407	-0.46	0.006	0.632	-0.47	0.003	0.117
Bfsp2	NM_001002896	ref Mus musculus beaded filament structural protein 2, phakinin (Bfsp2), mRNA [NM_001002896]	-0.68	0.002	0.272	-0.60	0.000	0.098	-0.53	0.009	0.203
Asb10	NM_080444	ref Mus musculus ankyrin repeat and SOCS box-containing 10 (Asb10), mRNA [NM_080444]	-0.69	0.004	0.315	-0.19	0.046	1.000	-0.64	0.000	0.032
Pcdhac2	NM_001003672	ref Mus musculus protocadherin alpha subfamily C, 2 (Pcdhac2), mRNA [NM_001003672]	-0.69	0.005	0.348	-0.37	0.043	1.000	-0.56	0.044	0.435
Gm3697	XM_001478221	ref PREDICTED: Mus musculus hypothetical protein LOC100042151 (LOC100042151), mRNA [XM_001478221]	-0.69	0.002	0.262	-0.58	0.003	0.508	-0.39	0.033	0.378
ENSMUST00000078633	ENSMUST00000078633	ens fer-1-like 5 (C. elegans) Gene [Source:MGI (curated);Acc:MGI:3616091] [ENSMUST00000078633]	-0.69	0.032	0.483	-0.57	0.036	1.000	-0.73	0.004	0.127
Sdf2l1	NM_022324	ref Mus musculus stromal cell-derived factor 2-like 1 (Sdf2l1), mRNA [NM_022324]	-0.69	0.003	0.297	-0.27	0.016	0.848	-0.43	0.003	0.123
chr4:88604248-88645948_R	chr4:88604248-88645948_R	lincRNA:chr4:88604248-88645948 reverse strand	-0.69	0.001	0.237	-0.51	0.011	0.781	-0.58	0.032	0.373

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Mfsd4	NM_001114662	ref Mus musculus major facilitator superfamily domain containing 4 (Mfsd4), transcript variant b, mRNA [NM_001114662]	-0.70	0.001	0.163	-0.35	0.007	0.674	-0.90	0.000	0.028
chr7:4827340-4863315_F	chr7:4827340-4863315_F	lincRNA:chr7:4827340-4863315 forward strand	-0.70	0.000	0.157	-0.36	0.001	0.263	-0.53	0.004	0.137
chr7:4827340-4863315_F	chr7:4827340-4863315_F	lincRNA:chr7:4827340-4863315 forward strand	-0.70	0.001	0.167	-0.37	0.000	0.190	-0.48	0.002	0.083
Dbt	NM_010022	ref Mus musculus dihydrolipoamide branched chain transacylase E2 (Dbt), nuclear gene encoding mitochondrial protein, mRNA [NM_010022]	-0.70	0.005	0.343	-0.52	0.000	0.025	-0.67	0.000	0.020
chr4:11899775-11931875_F	chr4:11899775-11931875_F	lincRNA:chr4:11899775-11931875 forward strand	-0.70	0.001	0.199	-0.27	0.014	0.825	-0.74	0.000	0.016
Palb2	NM_001081238	ref Mus musculus partner and localizer of BRCA2 (Palb2), mRNA [NM_001081238]	-0.70	0.004	0.311	-0.36	0.020	0.890	-0.80	0.001	0.050
Il17re	NM_001034031	ref Mus musculus interleukin 17 receptor E (Il17re), transcript variant 3, mRNA [NM_001034031]	-0.70	0.006	0.369	-0.50	0.014	0.820	-0.76	0.009	0.201
Mettl11b	NM_001143956	ref Mus musculus methyltransferase like 11B (Mettl11b), mRNA [NM_001143956]	-0.71	0.001	0.248	-0.43	0.009	0.720	-0.75	0.003	0.117
Bckdhb	NM_199195	ref Mus musculus branched chain ketoacid dehydrogenase E1, beta polypeptide (Bckdhb), nuclear gene encoding mitochondrial protein, mRNA [NM_199195]	-0.71	0.000	0.162	-0.62	0.000	0.038	-0.63	0.000	0.042
Hk2	NM_013820	ref Mus musculus hexokinase 2 (Hk2), mRNA [NM_013820]	-0.71	0.001	0.208	-0.27	0.005	0.621	-0.81	0.000	0.036
Kcnd2	NM_019697	ref Mus musculus potassium voltage-gated channel, Shal-related family, member 2 (Kcnd2), mRNA [NM_019697]	-0.71	0.001	0.171	-0.38	0.028	0.983	-1.01	0.000	0.011
Trp53i11	NM_001025246	ref Mus musculus transformation related protein 53 inducible protein 11 (Trp53i11), mRNA [NM_001025246]	-0.72	0.001	0.231	-0.33	0.016	0.848	-0.56	0.008	0.183
Cth	NM_145953	ref Mus musculus cystathionase (cystathionine gamma-lyase) (Cth), mRNA [NM_145953]	-0.72	0.040	0.501	-0.90	0.000	0.090	-0.58	0.008	0.184
D4Bwg0951e	NM_026821	ref Mus musculus DNA segment, Chr 4, Brigham & Women's Genetics 0951 expressed (D4Bwg0951e), mRNA [NM_026821]	-0.72	0.006	0.366	-0.29	0.043	1.000	-0.59	0.009	0.201
ENSMUST00000106148	ENSMUST00000106148	ens dicarbonyl L-xylulose reductase Gene [Source:MGI (curated);Acc:MGI:1915130] [ENSMUST00000106148]	-0.73	0.001	0.243	-0.77	0.000	0.004	-0.61	0.000	0.036
Rdh5	NM_134006	ref Mus musculus retinol dehydrogenase 5 (Rdh5), mRNA [NM_134006]	-0.73	0.002	0.281	-0.25	0.010	0.747	-0.61	0.000	0.034
Grin2c	NM_010350	ref Mus musculus glutamate receptor, ionotropic, NMDA2C (epsilon 3) (Grin2c), mRNA [NM_010350]	-0.73	0.009	0.399	-1.07	0.000	0.015	-1.02	0.001	0.067

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Aldh1b1	NM_028270	ref Mus musculus aldehyde dehydrogenase 1 family, member B1 (Aldh1b1), nuclear gene encoding mitochondrial protein, mRNA [NM_028270]	-0.74	0.000	0.045	-0.28	0.018	0.868	-0.96	0.000	0.004
Gm3154	XM_001476661	ref PREDICTED: Mus musculus hypothetical protein LOC100041131 (LOC100041131), mRNA [XM_001476661]	-0.74	0.011	0.407	-0.58	0.003	0.488	-0.53	0.020	0.299
ENSMUST00000061643	ENSMUST00000061643	ens RIKEN cDNA 2610303G11 gene Gene [Source:MGI Symbol;Acc:MGI:1917707] [ENSMUST00000061643]	-0.74	0.001	0.169	-0.91	0.011	0.770	-0.68	0.018	0.281
Eif4e	NM_007917	ref Mus musculus eukaryotic translation initiation factor 4E (Eif4e), mRNA [NM_007917]	-0.74	0.019	0.441	-0.29	0.033	1.000	-0.67	0.015	0.260
Rhox2e	NM_001085348	ref Mus musculus reproductive homeobox 2E (Rhox2e), mRNA [NM_001085348]	-0.74	0.003	0.281	-0.45	0.001	0.317	-0.91	0.000	0.012
Gm4703	XM_001481156	ref PREDICTED: Mus musculus hypothetical protein LOC100043874 (LOC100043874), mRNA [XM_001481156]	-0.75	0.002	0.262	-0.67	0.000	0.174	-0.39	0.008	0.191
Slc9a2	NM_001033289	ref Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), member 2 (Slc9a2), mRNA [NM_001033289]	-0.75	0.003	0.285	-0.43	0.006	0.655	-1.08	0.000	0.042
chr4:11893711-11921443_F	chr4:11893711-11921443_F	lincRNA:chr4:11893711-11921443 forward strand	-0.75	0.000	0.157	-0.23	0.035	1.000	-0.78	0.000	0.028
Gng7	NM_001038655	ref Mus musculus guanine nucleotide binding protein (G protein), gamma 7 (Gng7), transcript variant 1, mRNA [NM_001038655]	-0.75	0.003	0.281	-0.38	0.024	0.952	-0.59	0.005	0.150
Epha4	NM_007936	ref Mus musculus Eph receptor A4 (Epha4), mRNA [NM_007936]	-0.76	0.007	0.375	-0.29	0.014	0.825	-0.90	0.000	0.007
Defb19	NM_145157	ref Mus musculus defensin beta 19 (Defb19), mRNA [NM_145157]	-0.76	0.000	0.095	-0.42	0.003	0.440	-0.59	0.008	0.190
chr4:11893711-11921443_F	chr4:11893711-11921443_F	lincRNA:chr4:11893711-11921443 forward strand	-0.76	0.001	0.167	-0.23	0.029	0.992	-0.75	0.000	0.044
LOC100041903	XM_001477720	ref PREDICTED: Mus musculus similar to putative G-protein coupled receptor, transcript variant 2 (LOC100041903), mRNA [XM_001477720]	-0.77	0.044	0.513	-0.28	0.034	1.000	-0.48	0.015	0.260
Fxyd6	NM_022004	ref Mus musculus FXYD domain-containing ion transport regulator 6 (Fxyd6), mRNA [NM_022004]	-0.77	0.000	0.100	-0.27	0.022	0.924	-0.77	0.000	0.024
Mpst	NM_138670	ref Mus musculus mercaptopyruvate sulfurtransferase (Mpst), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_138670]	-0.77	0.000	0.084	-0.49	0.000	0.022	-1.05	0.001	0.060
Pgap2	NM_145583	ref Mus musculus post-GPI attachment to proteins 2 (Pgap2), mRNA [NM_145583]	-0.78	0.001	0.183	-0.33	0.006	0.628	-0.75	0.000	0.034

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
chr2:77152807-77155092_R	chr2:77152807-77155092_R	lincRNA:chr2:77152807-77155092 reverse strand	-0.78	0.001	0.167	-0.50	0.011	0.766	-1.04	0.001	0.058
2210011C24Rik	ENSMUST00000056686	ens RIKEN cDNA 2210011C24 gene Gene [Source:MGI Symbol;Acc:MGI:1917384] [ENSMUST00000056686]	-0.78	0.000	0.057	-0.56	0.000	0.023	-0.62	0.000	0.008
Ip6k3	NM_173027	ref Mus musculus inositol hexaphosphate kinase 3 (Ip6k3), mRNA [NM_173027]	-0.79	0.023	0.456	-0.30	0.014	0.825	-0.88	0.000	0.043
Pgap2	NM_145583	ref Mus musculus post-GPI attachment to proteins 2 (Pgap2), mRNA [NM_145583]	-0.80	0.000	0.151	-0.36	0.006	0.632	-0.79	0.000	0.041
Ddt	NM_010027	ref Mus musculus D-dopachrome tautomerase (Ddt), mRNA [NM_010027]	-0.80	0.000	0.031	-0.48	0.000	0.046	-0.71	0.000	0.010
chr4:11893711-11921443_F	chr4:11893711-11921443_F	lincRNA:chr4:11893711-11921443 forward strand	-0.80	0.001	0.227	-0.25	0.025	0.965	-0.85	0.000	0.032
Cth	NM_145953	ref Mus musculus cystathionase (cystathionine gamma-lyase) (Cth), mRNA [NM_145953]	-0.80	0.033	0.487	-0.96	0.000	0.148	-0.60	0.012	0.231
Tst	NM_009437	ref Mus musculus thiosulfate sulfurtransferase, mitochondrial (Tst), nuclear gene encoding mitochondrial protein, mRNA [NM_009437]	-0.80	0.000	0.022	-0.44	0.001	0.218	-0.88	0.000	0.003
chr14:27930334-27930974_F	chr14:27930334-27930974_F	lincRNA:chr14:27930334-27930974 forward strand	-0.80	0.008	0.390	-0.38	0.042	1.000	-0.55	0.024	0.326
Raver2	NM_183024	ref Mus musculus ribonucleoprotein, PTB-binding 2 (Raver2), mRNA [NM_183024]	-0.81	0.002	0.279	-0.27	0.009	0.720	-0.72	0.002	0.103
Tst	NM_009437	ref Mus musculus thiosulfate sulfurtransferase, mitochondrial (Tst), nuclear gene encoding mitochondrial protein, mRNA [NM_009437]	-0.81	0.000	0.044	-0.47	0.000	0.168	-0.77	0.000	0.003
Tmem37	NM_019432	ref Mus musculus transmembrane protein 37 (Tmem37), mRNA [NM_019432]	-0.81	0.000	0.022	-0.37	0.002	0.363	-0.67	0.000	0.009
Olf1206	NM_001001810	ref Mus musculus olfactory receptor 1206 (Olf1206), mRNA [NM_001001810]	-0.81	0.000	0.144	-0.47	0.025	0.965	-0.34	0.024	0.322
chr4:126710640-126721240_R	chr4:126710640-126721240_R	lincRNA:chr4:126710640-126721240 reverse strand	-0.82	0.010	0.401	-0.57	0.037	1.000	-0.54	0.002	0.102
chr1:139806645-139809498_F	chr1:139806645-139809498_F	lincRNA:chr1:139806645-139809498 forward strand	-0.82	0.003	0.282	-0.32	0.043	1.000	-0.30	0.040	0.413
chr5:113594167-113645342_F	chr5:113594167-113645342_F	lincRNA:chr5:113594167-113645342 forward strand	-0.82	0.003	0.303	-0.69	0.003	0.461	-0.50	0.031	0.368
Csprs	NM_033616	ref Mus musculus component of Sp100-rs (Csprs), mRNA [NM_033616]	-0.82	0.032	0.484	-0.38	0.008	0.710	-0.53	0.006	0.163
Tbx1	NM_011532	ref Mus musculus T-box 1 (Tbx1), mRNA [NM_011532]	-0.82	0.002	0.272	-0.37	0.003	0.449	-0.77	0.000	0.015
Adig	NM_145635	ref Mus musculus adipogenin (Adig), mRNA [NM_145635]	-0.83	0.002	0.252	-0.46	0.007	0.686	-0.57	0.010	0.213
Gm5108	XR_002346	ref PREDICTED: Mus musculus predicted gene, EG330097 (EG330097), misc RNA [XR_002346]	-0.83	0.001	0.216	-0.72	0.047	1.000	-0.51	0.020	0.296

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Rtn1	NM_153457	ref Mus musculus reticulon 1 (Rtn1), transcript variant 1, mRNA [NM_153457]	-0.83	0.005	0.354	-0.32	0.015	0.832	-0.72	0.009	0.198
Gcdh	NM_008097	ref Mus musculus glutaryl-Coenzyme A dehydrogenase (Gcdh), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_008097]	-0.84	0.000	0.057	-0.70	0.000	0.004	-0.76	0.000	0.017
chr1:107866276-107887102_F	chr1:107866276-107887102_F	lincRNA:chr1:107866276-107887102 forward strand	-0.84	0.001	0.233	-0.55	0.039	1.000	-0.65	0.005	0.149
chr2:77152807-77155092_R	chr2:77152807-77155092_R	lincRNA:chr2:77152807-77155092 reverse strand	-0.85	0.000	0.110	-0.54	0.003	0.488	-1.00	0.000	0.012
Poln	NM_181857	ref Mus musculus DNA polymerase N (Poln), mRNA [NM_181857]	-0.86	0.002	0.256	-0.47	0.021	0.914	-1.18	0.000	0.030
chr4:11899775-11931875_F	chr4:11899775-11931875_F	lincRNA:chr4:11899775-11931875 forward strand	-0.87	0.001	0.184	-0.36	0.006	0.632	-1.06	0.000	0.015
Slc25a35	NM_028048	ref Mus musculus solute carrier family 25, member 35 (Slc25a35), mRNA [NM_028048]	-0.88	0.001	0.231	-0.34	0.028	0.986	-0.72	0.004	0.135
Ckb	NM_021273	ref Mus musculus creatine kinase, brain (Ckb), mRNA [NM_021273]	-0.89	0.000	0.048	-0.29	0.001	0.263	-0.80	0.000	0.010
Poln	NM_181857	ref Mus musculus DNA polymerase N (Poln), mRNA [NM_181857]	-0.89	0.005	0.355	-0.55	0.003	0.434	-1.43	0.001	0.073
Tchhl1	NM_027762	ref Mus musculus trichohyalin-like 1 (Tchhl1), mRNA [NM_027762]	-0.90	0.026	0.468	-0.97	0.000	0.132	-0.75	0.001	0.078
Lypd6	NM_177139	ref Mus musculus LY6/PLAUR domain containing 6 (Lypd6), transcript variant 1, mRNA [NM_177139]	-0.90	0.001	0.173	-0.63	0.003	0.507	-1.02	0.001	0.049
LOC100048617	XM_001480420	ref PREDICTED: Mus musculus hypothetical protein LOC100048617 (LOC100048617), mRNA [XM_001480420]	-0.90	0.008	0.390	-0.21	0.026	0.971	-0.87	0.001	0.062
Aldh4a1	NM_175438	ref Mus musculus aldehyde dehydrogenase 4 family, member A1 (Aldh4a1), nuclear gene encoding mitochondrial protein, mRNA [NM_175438]	-0.90	0.000	0.056	-0.58	0.000	0.012	-0.81	0.000	0.010
Egf	NM_010113	ref Mus musculus epidermal growth factor (Egf), mRNA [NM_010113]	-0.90	0.004	0.330	-0.46	0.028	0.986	-1.12	0.001	0.067
AW112010	NM_001177351	ref Mus musculus expressed sequence AW112010 (AW112010), mRNA [NM_001177351]	-0.91	0.021	0.449	-0.17	0.044	1.000	-0.73	0.000	0.019
Tomm20l	NM_029227	ref Mus musculus translocase of outer mitochondrial membrane 20 homolog (yeast)-like (Tomm20l), nuclear gene encoding mitochondrial protein, mRNA [NM_029227]	-0.91	0.002	0.281	-0.40	0.010	0.747	-0.45	0.004	0.126
Pcx	NM_001162946	ref Mus musculus pyruvate carboxylase (Pcx), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_001162946]	-0.91	0.000	0.154	-0.72	0.000	0.020	-1.04	0.000	0.005

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
Gm14207	NR_030683	ref Mus musculus predicted gene 14207 (Gm14207), non-coding RNA [NR_030683]	-0.93	0.006	0.365	-0.31	0.006	0.661	-0.75	0.002	0.083
Hs3st5	NM_001081208	ref Mus musculus heparan sulfate (glucosamine) 3-O-sulfotransferase 5 (Hs3st5), mRNA [NM_001081208]	-0.93	0.010	0.400	-0.49	0.001	0.270	-0.55	0.018	0.285
Gm12892	XR_030521	ref PREDICTED: Mus musculus similar to creatine kinase (LOC666937), misc RNA [XR_030521]	-0.94	0.000	0.066	-0.27	0.001	0.328	-0.88	0.000	0.015
Rap2c	NM_172413	ref Mus musculus RAP2C, member of RAS oncogene family (Rap2c), mRNA [NM_172413]	-0.96	0.002	0.253	-0.57	0.008	0.709	-0.52	0.009	0.206
Gnb3	NM_013530	ref Mus musculus guanine nucleotide binding protein (G protein), beta 3 (Gnb3), mRNA [NM_013530]	-0.98	0.003	0.288	-0.76	0.000	0.067	-0.73	0.001	0.070
Tspan10	NM_145363	ref Mus musculus tetraspanin 10 (Tspan10), mRNA [NM_145363]	-0.99	0.000	0.048	-0.94	0.000	0.188	-0.96	0.000	0.003
Ckb	NM_021273	ref Mus musculus creatine kinase, brain (Ckb), mRNA [NM_021273]	-1.00	0.000	0.048	-0.29	0.002	0.357	-0.90	0.000	0.011
chr4:11899775-11931875_F	chr4:11899775-11931875_F	lincRNA:chr4:11899775-11931875 forward strand	-1.00	0.000	0.121	-0.29	0.010	0.762	-1.10	0.000	0.023
Iqgap2	NM_027711	ref Mus musculus IQ motif containing GTPase activating protein 2 (Iqgap2), mRNA [NM_027711]	-1.01	0.000	0.048	-0.70	0.002	0.377	-0.97	0.001	0.072
Gchfr	NM_177157	ref Mus musculus GTP cyclohydrolase I feedback regulator (Gchfr), mRNA [NM_177157]	-1.02	0.000	0.069	-0.66	0.000	0.108	-0.83	0.000	0.024
Prkcz	NM_008860	ref Mus musculus protein kinase C, zeta (Prkcz), transcript variant 1, mRNA [NM_008860]	-1.03	0.000	0.136	-0.38	0.002	0.347	-0.83	0.001	0.054
chr17:32044823-32045974_R	chr17:32044823-32045974_R	lincRNA:chr17:32044823-32045974 reverse strand	-1.03	0.005	0.346	-0.44	0.005	0.578	-0.65	0.000	0.045
Oxct1	NM_024188	ref Mus musculus 3-oxoacid CoA transferase 1 (Oxct1), nuclear gene encoding mitochondrial protein, mRNA [NM_024188]	-1.04	0.000	0.092	-0.65	0.002	0.377	-0.88	0.000	0.030
Polq	NM_029977	ref Mus musculus polymerase (DNA directed), theta (Polq), transcript variant 1, mRNA [NM_029977]	-1.04	0.009	0.398	-0.34	0.001	0.317	-1.00	0.004	0.141
Lrrn1	NM_008516	ref Mus musculus leucine rich repeat protein 1, neuronal (Lrrn1), mRNA [NM_008516]	-1.05	0.001	0.206	-0.43	0.029	0.986	-1.14	0.000	0.015
Gm8075	XM_983512	ref PREDICTED: Mus musculus predicted gene, EG666385 (EG666385), mRNA [XM_983512]	-1.05	0.004	0.318	-0.68	0.000	0.039	-0.65	0.013	0.242
Dupd1	NM_001013826	ref Mus musculus dual specificity phosphatase and pro isomerase domain containing 1 (Dupd1), mRNA [NM_001013826]	-1.07	0.001	0.173	-0.90	0.001	0.333	-1.21	0.000	0.011
Lgi1	NM_020278	ref Mus musculus leucine-rich repeat LGI family, member 1 (Lgi1), mRNA [NM_020278]	-1.07	0.000	0.090	-0.44	0.005	0.578	-1.06	0.005	0.146
Ttc39a	NM_153392	ref Mus musculus tetratricopeptide repeat domain 39A (Ttc39a), transcript variant 2, mRNA [NM_153392]	-1.07	0.009	0.398	-0.68	0.004	0.522	-1.19	0.004	0.132

Online Supplemental Table IV: All Three Overlap

Gene Symbol	RefSeq	Description	logFC mG4H- STZ	P-value	Adj. P-value	logFC mG4H- Veh	P-value	Adj. P-value	logFC Con- STZ	P-value	Adj. P-value
chr17:32035750-32056000_R	chr17:32035750-32056000_R	lincRNA:chr17:32035750-32056000 reverse strand	-1.09	0.002	0.271	-0.44	0.004	0.535	-0.72	0.000	0.030
Gm1673	NM_001033458	ref Mus musculus predicted gene 1673 (Gm1673), mRNA [NM_001033458]	-1.10	0.000	0.161	-0.28	0.033	1.000	-1.06	0.000	0.004
chr17:32044823-32045974_R	chr17:32044823-32045974_R	lincRNA:chr17:32044823-32045974 reverse strand	-1.10	0.002	0.266	-0.44	0.002	0.397	-0.73	0.000	0.022
chr17:32044823-32045974_R	chr17:32044823-32045974_R	lincRNA:chr17:32044823-32045974 reverse strand	-1.10	0.002	0.279	-0.41	0.003	0.496	-0.87	0.000	0.025
Olf975	NM_146828	ref Mus musculus olfactory receptor 975 (Olf975), mRNA [NM_146828]	-1.11	0.000	0.136	-0.98	0.026	0.971	-0.76	0.023	0.317
chr17:32035750-32056000_R	chr17:32035750-32056000_R	lincRNA:chr17:32035750-32056000 reverse strand	-1.12	0.002	0.271	-0.50	0.001	0.263	-0.70	0.000	0.046
ENSMUST00000021378	ENSMUST00000021378	ens RIKEN cDNA 4930512B01 gene Gene [Source:MGI Symbol;Acc:MGI:1921974] [ENSMUST00000021378]	-1.17	0.004	0.313	-0.59	0.012	0.793	-0.65	0.012	0.234
Lrrc4b	NM_198250	ref Mus musculus leucine rich repeat containing 4B (Lrrc4b), mRNA [NM_198250]	-1.17	0.001	0.167	-0.62	0.000	0.133	-1.11	0.002	0.096
7530428D23Rik	XM_887943	ref PREDICTED: Mus musculus RIKEN cDNA 7530428D23 gene (7530428D23Rik), mRNA [XM_887943]	-1.18	0.000	0.017	-0.87	0.002	0.409	-1.14	0.000	0.010
Cdh4	NM_009867	ref Mus musculus cadherin 4 (Cdh4), mRNA [NM_009867]	-1.19	0.000	0.136	-0.77	0.000	0.149	-1.09	0.001	0.059
Cd74	NM_001042605	ref Mus musculus CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated) (Cd74), transcript variant 1, mRNA [NM_001042605]	-1.19	0.009	0.398	-0.24	0.049	1.000	-0.93	0.007	0.179
Fam83e	NM_001033170	ref Mus musculus family with sequence similarity 83, member E (Fam83e), mRNA [NM_001033170]	-1.20	0.000	0.026	-0.72	0.000	0.069	-1.11	0.000	0.004
H2-Aa	NM_010378	ref Mus musculus histocompatibility 2, class II antigen A, alpha (H2-Aa), mRNA [NM_010378]	-1.23	0.010	0.403	-0.26	0.036	1.000	-0.98	0.005	0.154
Lrrc4b	NM_198250	ref Mus musculus leucine rich repeat containing 4B (Lrrc4b), mRNA [NM_198250]	-1.23	0.000	0.100	-0.72	0.000	0.035	-1.18	0.001	0.067
Slc5a11	NM_146198	ref Mus musculus solute carrier family 5 (sodium/glucose cotransporter), member 11 (Slc5a11), mRNA [NM_146198]	-1.24	0.000	0.034	-0.83	0.000	0.133	-1.20	0.000	0.030
Cdh4	NM_009867	ref Mus musculus cadherin 4 (Cdh4), mRNA [NM_009867]	-1.24	0.001	0.246	-0.85	0.000	0.110	-0.96	0.005	0.154
Scgb1c1	NM_001099742	ref Mus musculus secretoglobin, family 1C, member 1 (Scgb1c1), mRNA [NM_001099742]	-1.25	0.000	0.136	-1.15	0.000	0.031	-1.13	0.000	0.009
Spc24	NM_026282	ref Mus musculus SPC24, NDC80 kinetochore complex component, homolog (S. cerevisiae) (Spc24), mRNA [NM_026282]	-1.28	0.000	0.047	-0.57	0.000	0.036	-1.35	0.000	0.003

Online Supplemental Table IV: All Three Overlap

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Klra8	NM_010650	ref Mus musculus killer cell lectin-like receptor, subfamily A, member 8 (Klra8), transcript variant 2, mRNA [NM_010650]	-1.29	0.002	0.272	-0.38	0.025	0.967	-1.42	0.000	0.012
chr4:119967625-119978325_F	chr4:119967625-119978325_F	lincRNA:chr4:119967625-119978325 forward strand	-1.36	0.000	0.057	-0.41	0.013	0.793	-1.67	0.000	0.001
Dbc1	NM_019967	ref Mus musculus deleted in bladder cancer 1 (human) (Dbc1), mRNA [NM_019967]	-1.37	0.000	0.022	-0.52	0.004	0.544	-1.05	0.003	0.105
Pstpip1	NM_011193	ref Mus musculus proline-serine-threonine phosphatase-interacting protein 1 (Pstpip1), mRNA [NM_011193]	-1.37	0.000	0.028	-0.41	0.015	0.831	-1.21	0.001	0.060
Arhgap9	NM_146011	ref Mus musculus Rho GTPase activating protein 9 (Arhgap9), mRNA [NM_146011]	-1.39	0.000	0.048	-0.80	0.000	0.044	-1.40	0.000	0.006
Upb1	NM_133995	ref Mus musculus ureidopropionase, beta (Upb1), mRNA [NM_133995]	-1.52	0.000	0.024	-1.85	0.000	0.009	-0.82	0.000	0.019
Bdh1	NM_001122683	ref Mus musculus 3-hydroxybutyrate dehydrogenase, type 1 (Bdh1), transcript variant 2, mRNA [NM_001122683]	-1.56	0.000	0.136	-1.15	0.000	0.022	-1.29	0.000	0.005
Gcat	NM_013847	ref Mus musculus glycine C-acetyltransferase (2-amino-3-ketobutyrate-coenzyme A ligase) (Gcat), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_013847]	-1.56	0.000	0.002	-1.05	0.000	0.002	-1.28	0.000	0.001
Meig1	NM_008579	ref Mus musculus meiosis expressed gene 1 (Meig1), mRNA [NM_008579]	-1.56	0.000	0.071	-0.42	0.000	0.093	-1.37	0.000	0.004
Padi2	NM_008812	ref Mus musculus peptidyl arginine deiminase, type II (Padi2), mRNA [NM_008812]	-1.58	0.001	0.206	-0.56	0.040	1.000	-1.53	0.000	0.004
Bdh1	NM_175177	ref Mus musculus 3-hydroxybutyrate dehydrogenase, type 1 (Bdh1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_175177]	-1.58	0.000	0.071	-1.06	0.000	0.020	-1.22	0.000	0.002
chr4:141548769-141574868_R	chr4:141548769-141574868_R	lincRNA:chr4:141548769-141574868 reverse strand	-1.58	0.017	0.429	-0.63	0.020	0.889	-0.73	0.027	0.344
Meig1	NM_008579	ref Mus musculus meiosis expressed gene 1 (Meig1), mRNA [NM_008579]	-1.65	0.000	0.095	-0.40	0.001	0.256	-1.36	0.000	0.008
Cib3	NM_001080812	ref Mus musculus calcium and integrin binding family member 3 (Cib3), mRNA [NM_001080812]	-1.71	0.000	0.002	-1.82	0.000	0.000	-1.15	0.000	0.029
Bdh1	NM_001122683	ref Mus musculus 3-hydroxybutyrate dehydrogenase, type 1 (Bdh1), transcript variant 2, mRNA [NM_001122683]	-1.81	0.000	0.034	-1.24	0.000	0.004	-1.61	0.000	0.002
Cpxm2	NM_018867	ref Mus musculus carboxypeptidase X 2 (M14 family) (Cpxm2), mRNA [NM_018867]	-1.84	0.000	0.037	-1.33	0.000	0.007	-1.47	0.000	0.012
Tmprss4	NM_145403	ref Mus musculus transmembrane protease, serine 4 (Tmprss4), mRNA [NM_145403]	-1.91	0.000	0.022	-0.43	0.011	0.777	-2.32	0.000	0.003

Online Supplemental Table IV: All Three Overlap											
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Pah	NM_008777	ref Mus musculus phenylalanine hydroxylase (Pah), mRNA [NM_008777]	-2.14	0.000	0.003	-1.24	0.000	0.008	-2.25	0.000	0.002
Abat	NM_172961	ref Mus musculus 4-aminobutyrate aminotransferase (Abat), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA [NM_172961]	-2.28	0.000	0.000	-1.90	0.000	0.004	-2.13	0.000	0.000