

**Supplementary Table S3 Differentially expressed lncRNAs in the exosomal sequencing of the vitreous humor from PDR patients and MH patients**

gene	control_vitreouy	PDR_vitreouy	log2(Fold_change)	p-value
PLEKHG4B	4.468297218	804.7808425	7.492727	1.56E-05
MIR9-3HG	0	424.3227134	Inf	0.000186198
ENSG00000224441.1	450.1809448	0	#NAME?	7.53E-05
SLC9A7	2.234148609	579.1915518	8.018171596	8.11E-05
ENSG00000206195.6	440.127276	0	#NAME?	9.18E-05
RPS28P6	495.9809912	0.895195598	-9.113866172	9.37E-05
LOC100132249	0	396.5716499	Inf	0.000317277
THOC7	413.3174927	0	#NAME?	0.000156808
LOC100507657	0	277.5106353	Inf	0.005060343
GPR26	2.234148609	509.3662952	7.832834536	0.00023547
SFXN5	3.351222914	533.5365763	7.314755714	0.000274228
ENSG00000229272.1	746.2056355	14.32312957	-5.703154598	0.000313389
LINC01529	0	249.7595718	Inf	0.010319171
ARAP3	8.936594437	637.3792657	6.156283125	0.000369548
ENSG00000260072.1	0	243.4932026	Inf	0.012276799
PEX6	1.117074305	415.3707574	8.538530689	0.00059805
ENSG00000258749.1	392.0930809	0.895195598	-8.774777526	0.000630777
LCOR	4.468297218	503.9951216	6.817540806	0.000639792
RPL8P4	593.1664558	9.847151577	-5.912586738	0.000692922
NRXN2	4.468297218	496.8335568	6.796893655	0.000710769
LINC00319	0	241.7028114	Inf	0.012913216
TTBK1	5.585371523	515.6326644	6.528546601	0.000757928
QRICH2	6.702445828	529.0605983	6.302601513	0.000843753
ATP9B	1.117074305	392.9908675	8.458626824	0.000891396
FAM227A	5.585371523	497.7287524	6.477562672	0.000975925
EXTL1	0	342.859914	Inf	0.000987997
DNMBP	5.585371523	493.2527744	6.464530108	0.001040189
SNAI3-AS1	0	235.4364422	Inf	0.015436968
TLX1NB	0	235.4364422	Inf	0.015436968
ENSG00000244550.1	319.4832511	0	#NAME?	0.001309853
F12	1.117074305	369.7157819	8.370547665	0.001367363
ITPKB	2.234148609	401.0476279	7.487904616	0.001404078
STAG3	3.351222914	427.0083002	6.993432649	0.001428249
CSF1R	5.585371523	470.8728845	6.397540588	0.001435385

CCDC114	0	326.7463932	Inf	0.001465379
PLA2G4E	3.351222914	423.4275178	6.981283567	0.001512779
JPH2	2.234148609	395.6764543	7.468452253	0.001536937
MROH5	2.234148609	395.6764543	7.468452253	0.001536937
ENSG00000257740.1	455.7663163	5.371173587	-6.406913147	0.001556065
INPP4A	5.585371523	460.1305373	6.364246148	0.001678227
NFAM1	2.234148609	386.7244983	7.435437196	0.001788759
BRPF3	8.936594437	506.6807084	5.825207937	0.001822869
TAS2R38	668.0104342	23.27508554	-4.843012262	0.001936596
TROAP	0	314.2136549	Inf	0.002008746
ENSG00000261079.1	0	230.9604643	Inf	0.017536938
SGSM2	5.585371523	443.121821	6.309906314	0.002153782
KAT6B	1.117074305	346.4406964	8.27673945	0.002193672
MSH5	3.351222914	398.3620411	6.893248719	0.002260719
MIR489	299.3759136	0	#NAME?	0.002266361
MIR503	609.9225703	19.69430315	-4.952775828	0.002338851
VWA5B2	7.819520132	471.7680801	5.914853924	0.002343919
ARAP1	15.63904026	568.4492047	5.183807554	0.002368721
TNKS	5.585371523	435.9602562	6.286399561	0.002393901
SNORD98	297.141765	0	#NAME?	0.002408527
DLGAP3	2.234148609	365.2398039	7.352975036	0.002603724
MFSD7	0	303.4713077	Inf	0.002662817
BCL2	0	302.5761121	Inf	0.00272635
ITGAL	10.05366874	487.8816008	5.600737112	0.002817586
EMX2OS	2.234148609	358.9734348	7.32800812	0.002923958
MYOM1	2.234148609	358.0782392	7.324405884	0.002973913
KSR1	4.468297218	400.1524323	6.484680715	0.003082623
ENSG00000204929.7	0	229.1700731	Inf	0.018448607
KIF7	2.234148609	354.4974568	7.309906314	0.003185064
TRPM5	6.702445828	433.2746694	6.014450431	0.003202789
JDP2	0	296.3097429	Inf	0.003211138
RAB36	4.468297218	394.7812587	6.46518454	0.003347681
NFIX	5.585371523	412.6851706	6.20724454	0.003381805
PSD2	2.234148609	350.9166744	7.295259538	0.003415524
CAND2	5.585371523	411.789975	6.20411165	0.003426998
RASGRP4	4.468297218	392.9908675	6.458626824	0.003441193
ATXN1L	4.468297218	392.0956719	6.455336754	0.003488973
TRNAE21	533.9615176	16.11352076	-5.050392113	0.00351904
ENSG00000261829.1	281.5027248	0	#NAME?	0.003596516
ENSG00000272808.1	0	223.7988995	Inf	0.021519496
SLC6A7	2.234148609	347.335892	7.280462536	0.003666936

FAM78A	0	290.0433737	Inf	0.003763208
PRX	3.351222914	367.0301951	6.775067293	0.003774653
TFR2	2.234148609	345.5455008	7.273006731	0.003801034
KLHL36	4.468297218	384.9341071	6.428742544	0.003897646
CORO2B	1.117074305	320.480024	8.164365471	0.003913529
LINC01605	0	218.4277259	Inf	0.025090472
C17orf51	1.117074305	318.6896328	8.156283125	0.004076148
BRIX1P1	274.8002789	0	#NAME?	0.004235457
NPR1	6.702445828	412.6851706	5.944210134	0.00430544
CNNM1	2.234148609	339.2791316	7.246603732	0.004318248
IQCA1L	2.234148609	339.2791316	7.246603732	0.004318248
ENSG00000269086.2	0	217.5325303	Inf	0.025725912
TAB3	3.351222914	358.9734348	6.74304562	0.004340717
CCNF	5.585371523	395.6764543	6.146524159	0.004349273
TAF8	2.234148609	335.6983492	7.231296479	0.004649965
LINC00865	0	217.5325303	Inf	0.025725912
RN7SL451P	270.3319817	0	#NAME?	0.004740117
ITSN2	10.05366874	445.8074077	5.470626625	0.004862763
GRIK5	3.351222914	350.9166744	6.710297037	0.005025239
LINC01658	0	217.5325303	Inf	0.025725912
RBMX2P5	742.8544126	45.65497549	-4.024235494	0.00509615
SERINC5	15.63904026	499.5191436	4.997316084	0.005115738
HPCAL4	1.117074305	308.8424813	8.111002246	0.005133621
NICN1	1.117074305	308.8424813	8.111002246	0.005133621
RPSAP2	482.5760996	14.32312957	-5.074337808	0.005177335
ENSG00000228763.1	360.8150004	4.475977989	-6.332912566	0.005341138
ENSG00000269940.1	294.9076164	0.895195598	-8.363844425	0.00551636
JPH3	1.117074305	305.2616989	8.094177623	0.005591786
SLC7A14	5.585371523	378.6677379	6.083135452	0.005604777
NOP14-AS1	0	209.4757699	Inf	0.03176365
ENSG00000267122.1	0	272.1394618	Inf	0.005746474
bA395L14.12	455.7663163	12.53273837	-5.184520726	0.005770475
LOC286359	0	206.7901831	Inf	0.033899996
PLPPR2	1.117074305	303.4713077	8.085691157	0.005836326
SLC25A6	311.663731	1.790391196	-7.443571618	0.005870027
FAM212B	4.468297218	358.9734348	6.32800812	0.00590658
LRRC74B	2.234148609	324.0608064	7.180395581	0.005935215
SV2A	2.234148609	324.0608064	7.180395581	0.005935215
KIR3DL3	0	269.453875	Inf	0.00613791
GNAS-AS1	735.0348924	48.34056229	-3.926506578	0.006138625
RN7SL795P	546.249335	23.27508554	-4.552701243	0.006148881

VILL	7.819520132	401.9428234	5.683766407	0.006162392
LINC01104	0	205.8949875	Inf	0.034633723
8-Mar	3.351222914	339.2791316	6.661641231	0.006268148
POU5F1P4	586.4640099	28.64625913	-4.355623919	0.006274454
SULT4A1	0	268.5586794	Inf	0.006277367
ITIH4	2.234148609	321.3752196	7.168389728	0.00628122
SLC22A6	3.351222914	337.4887404	6.654007907	0.006490102
ENSG00000245261.1	509.3858829	19.69430315	-4.692908702	0.006636527
ITGA2B	7.819520132	396.5716499	5.664357661	0.006638859
IQCF1	613.2737932	33.12223712	-4.210659279	0.006660641
CLK3P2	928.2887471	76.98682142	-3.591890218	0.006769794
GTF2IRD1P1	0	264.0827014	Inf	0.007046972
CYP11B1	1.117074305	295.4145473	8.046871908	0.007064717
KREMEN1	5.585371523	363.4494127	6.023957516	0.007078075
UNC5CL	1.117074305	294.5193517	8.042493468	0.007213811
C22orf34	5.585371523	361.6590215	6.016833082	0.007280645
ATOH8	2.234148609	314.2136549	7.135876914	0.00731645
TNFRSF11A	1578.425992	158.4496208	-3.316390506	0.007321426
LLGL1	6.702445828	375.0869555	5.806393627	0.007392067
EML1	2.234148609	313.3184593	7.131760806	0.007460124
ZFP64	8.936594437	401.0476279	5.487904616	0.007470588
RPS20P35	341.8247372	4.475977989	-6.254910054	0.007495182
FNDC1	7.819520132	387.6196939	5.631417987	0.007517903
KDR	1.117074305	292.7289605	8.03369652	0.007519142
ZNF541	3.351222914	329.43198	6.619149149	0.00760421
GRM5	2.234148609	312.4232637	7.12763292	0.007607176
TRO	2.234148609	312.4232637	7.12763292	0.007607176
ZNF500	2.234148609	312.4232637	7.12763292	0.007607176
CNTN2	22.34148609	520.1086424	4.541015953	0.007633779
DDN	1.117074305	291.8337649	8.029277848	0.007675268
SLC30A3	11.17074305	422.5323222	5.241264648	0.007690279
CNIH3	0	260.501919	Inf	0.007739678
TOP3B	4.468297218	342.859914	6.261750276	0.007841762
GFI1B	0	259.6067234	Inf	0.007924343
CDC42BPA	6.702445828	369.7157819	5.785585165	0.008000133
NLRX1	4.468297218	341.0695228	6.254196882	0.008102335
MARCKSL1P1	411.0833441	10.74234717	-5.258049761	0.008108129
HPSE2	0	258.7115278	Inf	0.008113912
LINC02011	0	204.1045963	Inf	0.036141675
PRKAR1B	2.234148609	308.8424813	7.111002246	0.008229888
TMEM184A	5.585371523	353.6022612	5.984330442	0.008297969

ZNF25	1.117074305	288.2529825	8.011466572	0.008320482
EHD3	6.702445828	367.0301951	5.775067293	0.008325721
LOC284395	0	197.8382271	Inf	0.042010468
C21orf2	960.683902	88.62436419	-3.438286536	0.00850192
ALDH18A1	6.702445828	365.2398039	5.768012535	0.008551414
PFKFB4	6.702445828	365.2398039	5.768012535	0.008551414
ACVR1B	4.468297218	337.4887404	6.238970407	0.008654642
C9orf139	1433.206333	151.288056	-3.243876325	0.008726298
LOC677762	274.8002789	0.895195598	-8.261964811	0.008734141
PCDH7	3.351222914	322.2704152	6.58744029	0.008767481
CHRN2	2.234148609	305.2616989	7.094177623	0.008909189
ENSG00000262681.2	0	195.1526403	Inf	0.044867273
NTN1	2.234148609	304.3665033	7.08994063	0.009088009
NOL12	0	254.2355498	Inf	0.00914134
ENSG00000212766.5	0	193.3622491	Inf	0.046880548
ENSG00000227014.1	245.756347	0	#NAME?	0.009373111
LIMS2	2.234148609	302.5761121	7.08142913	0.009456511
ENSG00000253944.1	475.8736538	19.69430315	-4.594728308	0.009557426
DOCK10	4.468297218	331.2223712	6.211931155	0.009727905
LOC102723566	0	193.3622491	Inf	0.046880548
NCAPG2	7.819520132	368.8205863	5.559695299	0.009799245
TIPARP-AS1	0	192.4670535	Inf	0.047917704
PAFAH1B1P2	458.0004649	17.90391196	-4.677002311	0.009975823
ENSG00000261633.1	726.098298	58.18771386	-3.641378401	0.009985394
CD6	6.702445828	354.4974568	5.724943813	0.010086323
SLFN5	5.585371523	341.9647184	5.936050427	0.010118086
GOLGA7B	1.117074305	278.4058309	7.961320464	0.01026845
H1FX-AS1	0	191.5718579	Inf	0.048974122
CYFIP1	14.52196596	429.693887	4.887000571	0.010342307
C3P1	4.468297218	327.6415888	6.196249532	0.010406525
BCL11A	3.351222914	313.3184593	6.546798305	0.010490655
SLC8A1	2.234148609	297.2049385	7.055589125	0.0106484
RPS12	626.6786849	43.8645843	-3.836597422	0.010709429
SULF2	15.63904026	435.9602562	4.800972734	0.010727546
LOC100130607	361.9320747	8.056760381	-5.489375307	0.01074908
STEAP2	741.7373383	62.66369185	-3.56520672	0.0107664
FXN	0	247.9691806	Inf	0.010838574
NXF3	1.117074305	275.7202441	7.947336235	0.010864899
NAT10	11.17074305	395.6764543	5.146524159	0.010868192
ORMDL3	5.585371523	337.4887404	5.917042312	0.010945932
MST1R	7.819520132	359.8686303	5.524246463	0.011158296

ROBO2	11.17074305	392.9908675	5.136698729	0.011248703
GNAT1	2.234148609	294.5193517	7.042493468	0.011291683
RASGRF2	5.585371523	335.6983492	5.909368385	0.011299056
USH1G	1.117074305	273.0346574	7.933215126	0.011502424
COL9A2	7.819520132	357.1830436	5.513439708	0.011613262
HIC2	4.468297218	321.3752196	6.168389728	0.011716891
PDE1B	3.351222914	307.9472857	6.521851948	0.011719517
TP53INP2	2.234148609	292.7289605	7.03369652	0.011737179
CYP2C115P	237.9368269	0	#NAME?	0.011812568
ZMYM4	840.0398771	81.46279941	-3.366244517	0.011850225
SUMO3	779.7178646	71.61564783	-3.444605437	0.011853684
ARHGAP33	3.351222914	307.0520901	6.517651959	0.011939859
CDH16	3.351222914	306.1568945	6.513439708	0.012164709
RARA	3.351222914	306.1568945	6.513439708	0.012164709
IFNLR1	8.936594437	365.2398039	5.352975036	0.012171913
ENGASE	15.63904026	425.217909	4.764978475	0.012180519
OR52D1	404.3808983	13.42793397	-4.912405597	0.012189239
GIPR	2.234148609	290.9385693	7.024845602	0.012195282
TUBA3C	714.927555	61.76849625	-3.532853944	0.012257601
ENSG00000233183.2	1.117074305	403.7332146	8.497533317	0.000735664
CTPS2	2.234148609	290.0433737	7.020399697	0.012428823
RPS2P12	530.6102947	31.33184593	-4.081950992	0.012432554
ENSG00000264982.1	470.2882822	22.37988995	-4.393270539	0.012560443
SDS	893.6594437	92.20514658	-3.276805969	0.012569276
PDRG1	731.6836695	65.34927865	-3.484976844	0.012587416
VAMP1	0	242.598007	Inf	0.01259048
NGEF	2.234148609	289.1481781	7.015940049	0.012665211
SLC22A23	12.28781735	393.8860631	5.002477789	0.012665977
ACAP2	777.483716	73.40603903	-3.404841797	0.012719831
RPS23	640.0835765	50.13095348	-3.674486713	0.01281867
ATP2A1	3.351222914	303.4713077	6.500728656	0.012866439
FAM204A	628.9128335	48.34056229	-3.701553916	0.012886859
LOC100506688	1.117074305	347.335892	8.280462536	0.002151848
UNK	6.702445828	339.2791316	5.661641231	0.012945218
LINC00982	1.117074305	316.0040461	8.144074067	0.00433648
ENSG00000227237.1	460.2346135	21.48469435	-4.420988332	0.013079457
HPGD	813.2300938	80.56760381	-3.33539185	0.013177199
FAM20A	4.468297218	315.1088505	6.139981313	0.013195608
FAM24A	425.6053101	17.00871636	-4.64516998	0.013372057
CAMK2B	2.234148609	286.4625913	7.002477789	0.013388436
DCLK3	2.234148609	286.4625913	7.002477789	0.013388436

RPL35A	596.5176787	43.8645843	-3.765436394	0.013519876
SCUBE3	12.28781735	388.5148895	4.982669308	0.013547244
LOC388734	456.8833906	21.48469435	-4.410444838	0.013560677
SEMA6C	4.468297218	313.3184593	6.131760806	0.013657654
DDX11L10	603.2201245	45.65497549	-3.723840561	0.013907015
ENSG00000226088.1	232.3514554	0	#NAME?	0.013957478
ENSG00000257715.1	232.3514554	0	#NAME?	0.013957478
PLEKHN1	7.819520132	344.6503052	5.461909408	0.014103043
TMC4	3.351222914	298.9953297	6.479291486	0.014126568
FAIM	941.6936388	104.737885	-3.168474407	0.014179497
PRMT9	731.6836695	68.93006104	-3.408014862	0.014214557
BEGAIN	1352.776983	168.2967724	-3.006844604	0.014283045
IGF2	12.28781735	384.0389115	4.965951913	0.014329446
DAAM2	8.936594437	353.6022612	5.306258537	0.014378404
STN1	2.234148609	282.8818089	6.984330442	0.014386014
TMEM25	3.351222914	298.1001341	6.47496556	0.014392033
ZDHHC1	3.351222914	298.1001341	6.47496556	0.014392033
GRINA	693.7031432	62.66369185	-3.468616747	0.014443231
LINC01347	1.117074305	254.2355498	7.830296814	0.017733542
KEL	1.117074305	262.2923102	7.875306548	0.014658468
NTNG2	1.117074305	262.2923102	7.875306548	0.014658468
RGSL1	1.117074305	262.2923102	7.875306548	0.014658468
OPN3	670.2445828	59.08290946	-3.503874877	0.014772175
ENSG00000237001.2	416.6687156	17.00871636	-4.614554613	0.014841857
RGS8	2.234148609	281.0914177	6.975170443	0.014902464
SSH1	12.28781735	379.5629335	4.94903853	0.015159177
FTH1	1529.274723	196.9430315	-2.956997324	0.015198572
AOC3	3.351222914	295.4145473	6.461909408	0.015214607
FKBP5	1406.39655	179.9343152	-2.966461183	0.015233135
MZF1-AS1	1.117074305	249.7595718	7.804671006	0.019751403
LOC101927780	1.117074305	244.3883982	7.773306835	0.022531918
UCKL1-AS1	1.117074305	244.3883982	7.773306835	0.022531918
BTK	1.117074305	259.6067234	7.860458784	0.015612529
ITPRIP	4.468297218	306.1568945	6.098402209	0.015713301
ADAT1	3.351222914	293.6241561	6.453139198	0.015784182
ORC1	6.702445828	327.6415888	5.611287032	0.015803364
HAX1	611.0396446	50.13095348	-3.607492407	0.015834032
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APH1B	1.117074305	258.7115278	7.855475377	0.015945524
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PTH	435.6589788	20.58949875	-4.403218664	0.015978615

TRIM35	4.468297218	305.2616989	6.094177623	0.015994163
DCTPP1	555.1859294	40.2838019	-3.784699251	0.015995638
NAGLU	8.936594437	346.4406964	5.27673945	0.016011475
ACIN1	21.22441179	441.3314298	4.378066017	0.016097126
LEXM	0	233.646051	Inf	0.016246468
PLA2G6	4.468297218	304.3665033	6.08994063	0.016280404
SPATA31D4	310.5466567	5.371173587	-5.853428878	0.016355633
OR52I1	473.6395052	26.85586794	-4.140480165	0.016418672
HTRA2	1107.020636	138.7553177	-2.996067148	0.016455172
C2orf74	226.7660838	0	#NAME?	0.016479259
MKL1	7.819520132	334.8031536	5.420089232	0.01654572
MIR185	341.8247372	8.951955979	-5.254910054	0.016614245
NHSL1	12.28781735	371.5061731	4.918085602	0.016786609
ATP5D	471.4053565	26.85586794	-4.133658899	0.016789499
ACHE	2.234148609	274.8250486	6.942644539	0.016838774
LOC105370792	1.117074305	235.4364422	7.719468683	0.028222342
ZNF697	3.351222914	290.0433737	6.435437196	0.016971046
CSDC2	1247.771998	162.9255988	-2.937069136	0.016975145
LOC401557	1.117074305	235.4364422	7.719468683	0.028222342
PALM3	2.234148609	273.929853	6.937937537	0.017136246
WT1-AS	1.117074305	230.9604643	7.691776949	0.031602361
CLPTM1	15.63904026	395.6764543	4.661097331	0.017283313
ZRSR1	651.2543196	59.97810506	-3.440713189	0.017294623
GATAD2B	6.702445828	322.2704152	5.58744029	0.0173511
PCYT1B	1.117074305	255.1307454	7.835367803	0.01735868
ENSG00000272017.1	555.1859294	42.0741931	-3.721963496	0.017360634
FRMD1	2.234148609	273.0346574	6.933215126	0.017440148
ENSG00000242396.1	472.5224309	27.75106353	-4.089767849	0.017529345
LOC100506258	1.117074305	221.1133127	7.628916926	0.040525041
CLSTN2	3.351222914	288.2529825	6.426504071	0.017586451
RNA5SP442	224.5319352	0	#NAME?	0.017627432
ENSG00000229981.3	1.117074305	218.4277259	7.611287032	0.043360243
NLGN4X	2.234148609	272.1394618	6.928477207	0.017750953
IRS1	4.468297218	298.9953297	6.064253986	0.018110606
ZNF571	563.0054495	44.75977989	-3.65287404	0.018320054
CACNB2	2.234148609	270.3490706	6.918954433	0.018395318
ZNF398	2.234148609	270.3490706	6.918954433	0.018395318
CAPN15	8.936594437	337.4887404	5.238970407	0.018400501
UBE2E3	478.1078024	29.54145473	-4.016523173	0.018415524
FAM182B	1.117074305	214.8469435	7.58744029	0.047336536
ENSG00000251661.3	561.8883752	44.75977989	-3.650008706	0.018483681



ARHGEF15	1.117074305	252.4451586	7.820101046	0.018511075
PKP4-AS1	1.117074305	213.0565523	7.575367457	0.049383258
GORASP1	10.05366874	345.5455008	5.10308173	0.018635741
ZNF543	817.698391	93.99553778	-3.120904627	0.018650822
ENSG00000269910.1	294.9076164	4.475977989	-6.04191633	0.018688174
ARC	5.585371523	307.9472857	5.784886354	0.018706687
ZNF621	4.468297218	297.2049385	6.055589125	0.018763089
GRIN1	3.351222914	284.6722001	6.408470149	0.01885185
SUMO2P11	222.2977866	0	#NAME?	0.018857612
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TSPAN18	0	228.2748775	Inf	0.018922361
TUBBP5	0	228.2748775	Inf	0.018922361
ZNF333	6.702445828	316.8992417	5.563192743	0.019054991
TLR9	3.351222914	283.7770045	6.403926223	0.01917484
TRPC7	0	227.3796819	Inf	0.019411635
CHST10	2.234148609	267.6634838	6.904551368	0.019427281
LRBA	13.40489166	368.8205863	4.78208772	0.019433802
LINC00346	2.234148609	308.8424813	7.111002246	0.008229888
SELENOF	530.6102947	40.2838019	-3.719380913	0.019652781
ENSG00000267801.1	650.1372453	63.55888745	-3.354578529	0.019672939
RBX1	659.0738397	65.34927865	-3.334196891	0.019685633
ENSG00000257433.1	2.234148609	300.7857209	7.072867117	0.009839484
SMARCAL1	1.117074305	249.7595718	7.804671006	0.019751403
ZSCAN29	1.117074305	249.7595718	7.804671006	0.019751403
CRTC3	7.819520132	324.0608064	5.373040659	0.019786941
PKD1	118.4098763	937.269791	2.984674966	0.019820515
STAG3L5P- PVRIG2P-PILRB	2.234148609	274.8250486	6.942644539	0.016838774
TRAF3IP2-AS1	2.234148609	261.3971146	6.870374253	0.022200578
NBEAP5	220.063638	0	#NAME?	0.020163904
ATP8	587.5810842	51.92134468	-3.5003883	0.020185176
ATRNL1	1.117074305	248.8643762	7.799490767	0.020185862
CD300A	1.117074305	248.8643762	7.799490767	0.020185862
GPB1	1.117074305	248.8643762	7.799490767	0.020185862
MIR296	336.2393657	9.847151577	-5.093638364	0.02028104
GRHL3	13.40489166	365.2398039	4.768012535	0.02032418
DACT2	5.585371523	303.4713077	5.763763062	0.020355496
ENOX1	0	225.5892907	Inf	0.020435964
SPATA31D5P	607.6884217	56.39732267	-3.429633224	0.020548815
U2AF1L4	1.117074305	247.9691806	7.79429186	0.020631394
CCT2	713.8104806	77.88201702	-3.196178931	0.020701731

ENSG00000258754.3	2.234148609	226.4844863	6.663543269	0.048816972
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PTP4A1P2	334.0052171	9.847151577	-5.084020362	0.021001717
CHRM3	1.117074305	247.073985	7.789074151	0.021088357
FAM63A	1.117074305	247.073985	7.789074151	0.021088357
KIF17	3.351222914	278.4058309	6.376357963	0.021186714
BAIAP2-AS1	5.585371523	284.6722001	5.671504554	0.028875916
TUT1	6.702445828	310.6328725	5.534379046	0.021268909
RPL7AP66	458.0004649	28.64625913	-3.998930405	0.021304208
ADCY8	1481.240528	214.8469435	-2.78542477	0.021356685
ARHGAP26	23.4585604	428.7986914	4.192114117	0.021418978
MIAT	83.78057285	614.1041801	2.87379577	0.043282497
TDRD6	1.117074305	246.1787894	7.783837502	0.021557119
C9orf3	4.468297218	290.0433737	6.020399697	0.021572183
RPS3A	803.176425	97.57632017	-3.041113942	0.021818043
ENSG00000259353.1	237.9368269	0.895195598	-8.054159926	0.021867717
PRMT2	13.40489166	358.9734348	4.74304562	0.021998271
ATF5	1.117074305	245.2835938	7.778581777	0.022038077
SMPD4P2	0	222.9037039	Inf	0.022082568
MALAT1	1058.986441	177.2487284	-2.578836935	0.035944349
ENSG00000225408.1	275.9173532	3.580782392	-6.267817538	0.022116057
SLFN13	5.585371523	298.9953297	5.742325892	0.022158007
BMPER	2.234148609	261.3971146	6.870374253	0.022200578
LOC284798	857.9130659	138.7553177	-2.628288401	0.039301519
EPB41L5	7.819520132	316.8992417	5.340800322	0.022319855
TBX2-AS1	630.0299078	90.41475539	-2.800790176	0.045467647
LINC02035	891.4252951	125.3273837	-2.830412225	0.027080737
ENSG00000259654.1	236.8197526	0.895195598	-8.047370761	0.022528124
KRT73-AS1	962.9180506	133.3841441	-2.851825845	0.02411766
LINC01061	1131.596271	152.1832516	-2.894477829	0.019528906
MIR885	274.8002789	3.580782392	-6.261964811	0.022575557
CDHR5	2.234148609	260.501919	6.865425037	0.022634296
MOGAT2	0	222.0085083	Inf	0.022659246
ALOXE3	4.468297218	287.3577869	6.006979181	0.022699724
ENSG00000224875.2	284.8539477	4.475977989	-5.991875648	0.022707281
SLC22A4	870.2008833	112.7946453	-2.947649901	0.022874899
DSE	806.5276479	100.261907	-3.007950411	0.022887629
STX8	561.8883752	50.13095348	-3.486509974	0.022891379
PTPRM	3.351222914	273.929853	6.352975036	0.022996384
C2orf71	1.117074305	243.4932026	7.768012535	0.023038983
KCNE1	0	221.1133127	Inf	0.023249004

TXLNG	719.3958522	83.2531906	-3.111208373	0.023253429
MNT	3.351222914	273.0346574	6.348252626	0.023377791
CASC18	748.4397841	97.57632017	-2.939283267	0.028435785
EFNA4	491.512694	36.70301951	-3.743258015	0.023433866
ZMYND15	4.468297218	285.5673957	5.997962308	0.023469767
LINC00595	670.2445828	81.46279941	-3.040474356	0.02922719
LOC101927501	580.8786384	66.24447424	-3.132364753	0.033805751
MIR5702	214.4782665	0	#NAME?	0.023702116
ANKH	11.17074305	337.4887404	4.917042312	0.023738223
ENSG00000261505.1	0	220.2181171	Inf	0.023851247
MYOZ3	0	220.2181171	Inf	0.023851247
S1PR1	0	220.2181171	Inf	0.023851247
C1orf116	4.468297218	284.6722001	5.993432649	0.023858856
POLR1A	78.19520132	691.0910016	3.143723714	0.023974272
SCP2	756.2593042	92.20514658	-3.035961802	0.024078917
LINC01586	574.1761926	64.45408305	-3.155149854	0.033597075
CEP44	687.0006973	77.88201702	-3.14094941	0.024123851
PPP1R10	10.05366874	328.5367844	5.030260945	0.024159977
ENSG00000205325.1	699.2885147	77.88201702	-3.166525657	0.022479359
MCTP2	4.468297218	283.7770045	5.988888724	0.024250785
AQP4	634.498205	67.13966984	-3.240378735	0.024377248
ENSG00000265749.1	522.7907746	43.8645843	-3.575105181	0.024438593
FAM47C	2.234148609	256.9211366	6.845456621	0.024464003
RHBG	642.3177252	68.93006104	-3.220081911	0.024471894
ENSG00000237481.1	270.3319817	3.580782392	-6.238313543	0.02452645
ABHD17AP6	396.5613781	20.58949875	-4.267563564	0.024595672
SPN	14.52196596	358.0782392	4.623966166	0.024599354
FCN3	1.117074305	240.8076158	7.752012057	0.02464116
RPS7P15	303.8442109	7.161564783	-5.406913147	0.02471306
COL11A2	113.9415791	857.5973828	2.912006198	0.024874841
KCNQ3	14.52196596	357.1830436	4.620354912	0.024875046
SIRT2	3.351222914	269.453875	6.32920687	0.024986012
CMBL	0	218.4277259	Inf	0.025090472
ENSG00000266588.1	565.2395981	61.76849625	-3.193919424	0.033007201
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TRDV1	212.2441179	0	#NAME?	0.025192758
NDST1	39.09760066	496.8335568	3.667610638	0.025239603
ITGA8	2.234148609	255.1307454	6.835367803	0.025439655
B3GNT2	673.5958057	76.98682142	-3.129199743	0.025450783
HBM	382.0394122	18.79910756	-4.344985398	0.025462924
CTRL	889.1911465	121.7466013	-2.868612085	0.025468992

CENPL	573.0591183	55.50212707	-3.368069011	0.025529765
ENSG00000260120.1	684.7665487	74.30123462	-3.204154138	0.02209259
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LINC01785	577.5274155	60.87330066	-3.246007935	0.029468717
HSH2D	1342.723314	206.7901831	-2.698922445	0.025800481
PARP14	6.702445828	299.8905253	5.483604479	0.025824527
ND6	3497.559648	468.1872977	-2.901190963	0.025869284
NT5C1A	570.8249697	55.50212707	-3.362433477	0.025948525
LINC01296	606.5713474	63.55888745	-3.254511574	0.026249688
SPI1	612.1567189	64.45408305	-3.247557388	0.025995743
LOC91450	513.8541801	50.13095348	-3.357585435	0.033195834
FAM160A2	5.585371523	290.0433737	5.698471602	0.026203972
IPW	692.5860689	65.34927865	-3.405750152	0.015948611
PCDHB4	573.0591183	56.39732267	-3.344985398	0.026316804
NHSL2	1.117074305	238.122029	7.73583213	0.026367876
MYLK4	0	216.6373347	Inf	0.026370752
SYNM	1109.254784	166.5063812	-2.735941402	0.026419278
ENSG00000250748.2	668.0104342	62.66369185	-3.414168963	0.017005037
SENP3	2.234148609	253.3403542	6.825207937	0.026459044
PSMC1P6	425.6053101	26.85586794	-3.986206898	0.026636125
B4GALNT3	6.702445828	298.1001341	5.47496556	0.026679685
ENSG00000260739.1	668.0104342	59.97810506	-3.47736279	0.015482708
HSPD1P16	210.0099693	0	#NAME?	0.02671572
BET1L	3.351222914	265.8730926	6.309906314	0.026757743
ZEB1	7.819520132	306.1568945	5.291047287	0.026795995
RPL21P111	230.1173068	0.895195598	-8.005950833	0.026922988
NR1I2	1.117074305	237.2268334	7.730398243	0.026971706
CCDC120	5.585371523	288.2529825	5.689538477	0.027077046
LOC100507670	526.1419975	46.55017109	-3.498593837	0.026435855
LOC100630919	243.5221984	1.790391196	-7.087634631	0.027090687
NEK8	6.702445828	297.2049385	5.470626625	0.02711733
GRAMD4	11.17074305	328.5367844	4.878257852	0.027146183
CHRFAM7A	352.9954803	15.21832516	-4.535768213	0.027151249
RFC1	7.819520132	305.2616989	5.286822701	0.027216152
SMURF1	7.819520132	305.2616989	5.286822701	0.027216152
RPL37AP8	283.7368734	5.371173587	-5.723172492	0.027251696
RN7SL342P	317.2491025	9.847151577	-5.009765807	0.02742175
UGT2B10	478.1078024	37.59821511	-3.66859987	0.027488785
PKP4	4.468297218	276.6154397	5.952012722	0.027523099
ENSG00000233098.4	2.234148609	251.549963	6.814976014	0.027524781
GLIS2	6.702445828	296.3097429	5.4662746	0.027561598

JAG2	2016.31912	318.6896328	-2.661499997	0.027569966
TVP23C	1.117074305	236.3316378	7.724943813	0.027589834
RNF144A	4.468297218	275.7202441	5.947336235	0.027954597
USP19	30.16100622	439.5410386	3.865241406	0.028097997
CPTP	775.2495674	102.9474938	-2.912752108	0.028172845
KPTN	1.117074305	235.4364422	7.719468683	0.028222342
LINC01509	423.3711614	35.80782392	-3.563576249	0.041761783
LINC01070	422.2540871	34.01743272	-3.633765217	0.039122364
NPL	1.117074305	235.4364422	7.719468683	0.028222342
LINC01647	529.4932204	40.2838019	-3.716340459	0.019839044
C11orf45	0	213.9517479	Inf	0.028351693
LOC284632	469.1712079	33.12223712	-3.824242458	0.024215004
ZNF646	12.28781735	332.1175668	4.756393452	0.028637111
THTPA	3.351222914	262.2923102	6.290344048	0.028737577
RPL9	523.9078489	48.34056229	-3.438006916	0.028775744
COX3	4130.940778	525.479816	-2.974763122	0.028798565
DMRT2	754.0251556	99.36671137	-2.923778132	0.028810415
GADD45G	664.6592112	79.67240821	-3.060462733	0.028820592
FCAMR	1.117074305	234.5412466	7.713972696	0.028869295
POM121L9P	1.117074305	234.5412466	7.713972696	0.028869295
SEMA5A-AS1	456.8833906	32.22704152	-3.825482337	0.026001122
RSRP1	5.585371523	284.6722001	5.671504554	0.028875916
PHLDA2	313.8978796	9.847151577	-4.994445008	0.028935869
HHAT	0	213.0565523	Inf	0.029023693
WNT7B	0	213.0565523	Inf	0.029023693
LIFR	2.234148609	248.8643762	6.799490767	0.029216445
MIRLET7DHG	500.4492885	32.22704152	-3.956880227	0.01728174
GALNT4	4.468297218	273.0346574	5.933215126	0.029289755
LRIG1	18.99026318	372.4013687	4.293526571	0.029340902
ZNF384	6.702445828	292.7289605	5.448734019	0.029403117
ENSG00000260205.1	862.3813632	55.50212707	-3.957711033	0.004019433
GSTA3	385.3906351	21.48469435	-4.164940357	0.029476707
DENND5A	15.63904026	350.9166744	4.487904616	0.029481741
NRIP2	1.117074305	233.646051	7.708455691	0.029530747
SCDP1	0	212.1613567	Inf	0.029700082
SSBP3	3.351222914	260.501919	6.280462536	0.02979621
LTB4R	2.234148609	247.9691806	6.79429186	0.029806649
MIR1203	205.541672	0	#NAME?	0.029912308
MIR573	205.541672	0	#NAME?	0.029912308
RPL21P109	205.541672	0	#NAME?	0.029912308
KHNYN	21.22441179	384.0389115	4.177456018	0.029957329

PPP2R5D	15.63904026	349.1262832	4.480525086	0.030150339
LINC01655	354.1125546	22.37988995	-3.983933146	0.043599505
DBH	1.117074305	232.7508554	7.702917507	0.030206732
OIT3	1.117074305	232.7508554	7.702917507	0.030206732
RIBC1	1.117074305	232.7508554	7.702917507	0.030206732
MMS19	4.468297218	271.2442662	5.923723677	0.030219298
PGK2	521.6737003	49.23575788	-3.405369332	0.030251579
ENSG00000264015.1	382.0394122	21.48469435	-4.15234032	0.030562226
NECAB2	730.5665952	96.68112457	-2.917709629	0.03047216
ENSG00000235140.1	421.1370128	23.27508554	-4.177431301	0.022520769
ENSG00000258481.1	406.6150469	21.48469435	-4.242282445	0.023410459
MIR6082	204.4245977	0	#NAME?	0.030755335
DCPS	622.2103877	72.51084343	-3.10113382	0.030784898
GLDC	6.702445828	290.0433737	5.435437196	0.030848634
SPAG4	1.117074305	231.8556599	7.697357982	0.03089727
ENSG00000259432.1	476.9907281	40.2838019	-3.565689469	0.031098739
FEM1A	10.05366874	312.4232637	4.957707919	0.031137585
RSPH3	4.468297218	269.453875	5.914169371	0.031186238
TMCO4	4.468297218	269.453875	5.914169371	0.031186238
ASXL1	5.585371523	280.1962221	5.648640446	0.031199448
ENSG00000260091.1	663.5421369	34.01743272	-4.285841913	0.004655799
PDS5A	7.819520132	297.2049385	5.248234203	0.031337441
APIG2	3.351222914	257.8163322	6.265512195	0.031463799
POTEC	3.351222914	257.8163322	6.265512195	0.031463799
ENSG00000270093.1	315.0149539	16.11352076	-4.289076657	0.048265229
PODXL2	2.234148609	245.2835938	6.778581777	0.031661862
NAV3	4.468297218	268.5586794	5.909368385	0.031685488
SLC25A51	730.5665952	98.47151577	-2.891237418	0.031722659
ENSG00000268573.1	1013.186394	48.34056229	-4.389521544	0.001285056
TH	0	209.4757699	Inf	0.03176365
TMEM92	0	209.4757699	Inf	0.03176365
KRT18P42	373.1028177	20.58949875	-4.179592642	0.031799228
LOC100289333	340.7076629	15.21832516	-4.484652897	0.031834663
PI4K2A	6.702445828	288.2529825	5.426504071	0.031840685
OTUD6A	494.8639169	44.75977989	-3.466757005	0.031859461
CES5A	3.351222914	256.9211366	6.26049412	0.032042062
POC1B-GALNT4	3.351222914	256.9211366	6.26049412	0.032042062
TAF1L	3.351222914	256.9211366	6.26049412	0.032042062
ENSG00000256311.1	498.2151399	45.65497549	-3.447924864	0.032049397
LOC100420027	223.4148609	0.895195598	-7.963306496	0.032166762
GLTSCR1L	4.468297218	267.6634838	5.904551368	0.032196277

TAF9BP1	402.1467497	25.96067234	-3.953322407	0.032202035
SLC25A41	1.117074305	230.0652687	7.686174243	0.032321987
ENSG00000234693.1	360.8150004	18.79910756	-4.262523238	0.032378677
POP7	415.5516413	28.64625913	-3.858609117	0.032419957
ENSG00000254539.1	420.0199385	29.54145473	-3.829645038	0.032456451
NR1H2	8.936594437	302.5761121	5.08142913	0.032481442
MIR33A	202.1904491	0	#NAME?	0.032512012
DDX50P1	551.8347065	58.18771386	-3.245449725	0.032523213
POU3F2	928.2887471	143.2312957	-2.696226878	0.032573726
RPL23	612.1567189	72.51084343	-3.077632386	0.03280464
LOC100271717	317.2491025	11.63754277	-4.768757707	0.032857955
TARS2P1	561.8883752	60.87330066	-3.206402055	0.032890582
AFF2	2.234148609	243.4932026	6.768012535	0.032973802
FZD3	2.234148609	243.4932026	6.768012535	0.032973802
SMYD4	2.234148609	243.4932026	6.768012535	0.032973802
PCCA-AS1	641.2006508	25.96067234	-4.626376238	0.003122787
OR56A5	272.5661303	5.371173587	-5.665225143	0.033032121
GNA15	1.117074305	229.1700731	7.680549694	0.033056113
FBRSL1	12.28781735	322.2704152	4.712971172	0.033113304
ELMO1	5.585371523	276.6154397	5.630084627	0.033133273
ENSG00000233625.1	312.7808053	12.53273837	-4.641378401	0.038074706
MXRA7	3.351222914	255.1307454	6.250405302	0.033234052
RIMBP2	32.39515483	433.2746694	3.741431936	0.033236485
ENSG00000238160.1	563.0054495	61.76849625	-3.188205773	0.033527928
LOC105374366	412.2004184	16.11352076	-4.677002311	0.014444632
TSR2	2.234148609	242.598007	6.762698735	0.033654137
ENSG00000259201.1	373.1028177	21.48469435	-4.118192098	0.033658311
ENSG00000223831.1	383.1564865	23.27508554	-4.041075354	0.033689759
CARD6	1.117074305	228.2748775	7.674903131	0.033804682
ENSG00000240292.1	308.3125081	11.63754277	-4.727535045	0.037671259
TESK1	4.468297218	264.977897	5.89000306	0.033806294
RET	1754.923733	301.6809165	-2.54031299	0.033879168
FAM198A	0	206.7901831	Inf	0.033899996
ENSG00000259780.2	312.7808053	11.63754277	-4.748293605	0.03518335
DDX1	576.4103412	65.34927865	-3.140853003	0.033959042
KIF26B	40.21467497	467.2921021	3.538530689	0.034141794
CD79B	785.3032361	114.5850365	-2.776831185	0.034284895
C19orf12	2.234148609	241.7028114	6.757365291	0.03435106
MEFV	4.468297218	264.0827014	5.885120838	0.034371893
RIMS2	4.468297218	264.0827014	5.885120838	0.034371893
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ENSG00000236016.3	345.1759601	17.00871636	-4.34298582	0.034383973
NEURL2	456.8833906	38.49341071	-3.569142584	0.034472956
TIMELESS	8.936594437	298.9953297	5.064253986	0.034509729
XXYLT1	1.117074305	227.3796819	7.669234381	0.034569767
ZDHHC22	1.117074305	227.3796819	7.669234381	0.034569767
EEF1A2	690.3519203	93.10034218	-2.890473616	0.034620633
CICP11	0	205.8949875	Inf	0.034633723
KRT9	0	205.8949875	Inf	0.034633723
LILRP2	0	205.8949875	Inf	0.034633723
LINC01162	299.3759136	9.847151577	-4.926107878	0.036687571
PADI6	0	205.8949875	Inf	0.034633723
ZBTB34	0	205.8949875	Inf	0.034633723
ENSG00000228620.1	308.3125081	10.74234717	-4.843012262	0.034654218
ENSG00000254688.1	365.2832976	20.58949875	-4.149035175	0.034655463
FUT4	11.17074305	312.4232637	4.805704825	0.0347304
PCDHGB3	4.468297218	263.1875058	5.880222039	0.034953601
PPP1R7	4.468297218	263.1875058	5.880222039	0.034953601
SEMA7A	2.234148609	240.8076158	6.752012057	0.035064713
ZZEF1	131.8147679	857.5973828	2.70178849	0.035094078
IMMP2L	338.4735143	16.11352076	-4.392699288	0.035107576
OGFOD1	567.4737467	64.45408305	-3.138209991	0.035176677
RPL26P18	220.063638	0.895195598	-7.941502125	0.03517922
ENSG00000263004.1	481.4590253	15.21832516	-4.983531524	0.005811843
XXYLT1-AS1	366.4003719	9.847151577	-5.217570692	0.01303793
RN7SL125P	198.8392262	0	#NAME?	0.035369157
ARHGAP30	14.52196596	330.3271756	4.507586982	0.035477414
SLC30A6	697.0543661	95.78592897	-2.863385538	0.035488931
NELL1	4.468297218	262.2923102	5.875306548	0.03555246
ZBTB7B	4.468297218	262.2923102	5.875306548	0.03555246
RPLP0P4	387.6247837	25.06547674	-3.950887237	0.035601037
SPG7	11.17074305	310.6328725	4.797413452	0.035695744
ATP1B2	3.351222914	251.549963	6.230013514	0.035769306
PLK3	2.234148609	239.9124202	6.746638884	0.035795224
EIF4HP2	289.3222449	8.056760381	-5.166333592	0.035862038
UBTFL1	251.3417185	3.580782392	-6.133231497	0.035904716
ENSG00000255246.1	502.6834371	13.42793397	-5.226340902	0.003643162
NCBP3	8.936594437	296.3097429	5.051237101	0.036115917
ENSG00000238054.1	268.0978331	7.161564783	-5.226340902	0.045547213
ENSG00000236065.2	336.2393657	16.11352076	-4.383144981	0.036158111
KRT82	1.117074305	225.5892907	7.657829618	0.036166557
ECE1	24.5756347	384.9341071	3.969310925	0.03618917



ACTG1P24	316.1320282	12.53273837	-4.656753627	0.036211291
ENSG00000260304.1	259.1612387	4.475977989	-5.855503206	0.036296002
FDFT1	18.99026318	353.6022612	4.218795696	0.036297124
RPS20	498.2151399	49.23575788	-3.338990492	0.03641715
IFT52	536.1956662	58.18771386	-3.203973089	0.03643647
ANTXR2	3.351222914	250.6547674	6.22487021	0.036436726
EIF4E1B	864.6155118	136.0697309	-2.667712549	0.036583629
GAPVD1	8.936594437	295.4145473	5.046871908	0.036667161
ENSG00000249086.1	299.3759136	9.847151577	-4.926107878	0.036687571
LOC101928523	388.741858	8.951955979	-5.440465707	0.008461648
DPP8	11.17074305	308.8424813	4.789074151	0.036689924
APOC1P1	379.8052636	24.17028114	-3.97395374	0.036728741
GEMIN4	5.585371523	270.3490706	5.597026338	0.036769694
SAP30BP	4.468297218	260.501919	5.865425037	0.03678913
ENSG00000250407.1	325.0686226	14.32312957	-4.504325649	0.036816646
ENSG00000231329.3	0	203.2094007	Inf	0.036918885
FAM86GP	1.117074305	224.6940951	7.652093248	0.036997642
RALGDS	10.05366874	301.6809165	4.907229474	0.037000361
GLTSCR2	556.3030037	63.55888745	-3.129705119	0.037032507
DHCR24	1472.303933	261.3971146	-2.493760402	0.037042445
CTDSP1	6.702445828	279.3010265	5.380989412	0.037066532
ENSG00000267045.1	592.0493814	12.53273837	-5.561943933	0.001129027
HEXIM2	3.351222914	249.7595718	6.219708505	0.037118352
NLRP8	3.351222914	249.7595718	6.219708505	0.037118352
EEF1A1	2295.587696	398.3620411	-2.526711459	0.037136572
TOR2A	7.819520132	287.3577869	5.199624259	0.037160956
STXBP5L	2.234148609	238.122029	6.73583213	0.037307272
TCP10L	2.234148609	238.122029	6.73583213	0.037307272
COX2	5061.463674	618.5801581	-3.032522181	0.03737629
HINFP	4.468297218	259.6067234	5.860458784	0.037424558
KRT78	4.468297218	259.6067234	5.860458784	0.037424558
PCBD2	547.3664093	61.76849625	-3.147563788	0.037431869
PBX2	10.05366874	300.7857209	4.902942115	0.037546009
TRDC	249.1075699	3.580782392	-6.120350206	0.037611741
TNFRSF11B	520.556626	55.50212707	-3.22944014	0.037636165
HIF1A-AS1	265.8636845	5.371173587	-5.629305569	0.037075906
TESMIN	0	202.3142051	Inf	0.037713715
ZNF718	0	202.3142051	Inf	0.037713715
HRH1	3.351222914	248.8643762	6.214528266	0.037814587
EHBP1L1	13.40489166	319.5848284	4.575367457	0.037843617
CNTFR	1.117074305	223.7988995	7.646333979	0.037849748

PTGES3L-AARSD1	4.468297218	258.7115278	5.855475377	0.038071774
LOC101929224	348.527183	6.266369185	-5.797497603	0.009769098
CRB1	2.234148609	237.2268334	6.730398243	0.038088999
GAS6	2.234148609	237.2268334	6.730398243	0.038088999
USP49	2.234148609	237.2268334	6.730398243	0.038088999
PALM2-AKAP2	6.702445828	277.5106353	5.371711599	0.038158544
AACS	5.585371523	267.6634838	5.582623273	0.038468736
C5orf30	759.6105271	114.5850365	-2.728841242	0.038515517
ARHGAP20	0	201.4190095	Inf	0.03852787
TCEA3	0	201.4190095	Inf	0.03852787
GPS1	10.05366874	298.9953297	4.894328985	0.038663645
CRTAP	6.702445828	276.6154397	5.367050221	0.0387123
FAM43A	1.117074305	222.9037039	7.640551626	0.038722201
IGFALS	1.117074305	222.9037039	7.640551626	0.038722201
HTR4	4.468297218	257.8163322	5.850474695	0.038731082
SERPINH1P1	538.4298148	60.87330066	-3.144876801	0.03885664
ENSG00000262332.1	359.6979261	21.48469435	-4.065404683	0.038940892
APEX2	632.2640564	84.1483862	-2.909519697	0.038943138
HK2	49.1512694	490.5671876	3.319150158	0.038986371
ENSG00000259534.1	303.8442109	5.371173587	-5.821950647	0.018608198
METRNL	442.3614246	38.49341071	-3.522542171	0.03921907
VWA1	3.351222914	247.073985	6.20411165	0.039252557
CMTR1	6.702445828	275.7202441	5.362373734	0.039271861
LOC100133669	268.0978331	4.475977989	-5.904412807	0.030643583
EML3	13.40489166	316.8992417	4.563192743	0.039349673
LINGO1	7.819520132	283.7770045	5.181533802	0.039460394
CD40	597.634753	76.09162582	-2.973454451	0.039476159
CERCAM	1.117074305	222.0085083	7.634746004	0.039614245
HIPK4	1.117074305	222.0085083	7.634746004	0.039614245
SMAD6	1.117074305	222.0085083	7.634746004	0.039614245
ZBTB46	6.702445828	274.8250486	5.357682039	0.039837747
VWA3B	13.40489166	316.0040461	4.559111567	0.039865385
MYO1E	12.28781735	309.7376769	4.655746303	0.039918461
LOC392364	385.3906351	26.85586794	-3.843012262	0.04003654
DRC3	7.819520132	282.8818089	5.17697552	0.040047189
ATP6V0CP3	366.4003719	23.27508554	-3.976562592	0.040192884
HSPD1P12	261.3953873	5.371173587	-5.604852525	0.040197699
DKK3	0	199.6286183	Inf	0.040221421
TRIM56	5.585371523	264.977897	5.568074965	0.040282185
CCDC89	470.2882822	45.65497549	-3.364701387	0.040334412
ENSG00000255670.1	258.0441644	3.580782392	-6.171199347	0.031282732

CEP170	785.3032361	123.5369925	-2.668306728	0.040599558
RPS8	557.420078	67.13966984	-3.053527621	0.040618654
MPHOSPH6	322.834474	15.21832516	-4.406913147	0.040662168
PER3	3.351222914	245.2835938	6.193619276	0.040754112
MAGT1	517.205403	57.29251826	-3.174318689	0.040772919
NDUFB4P1	193.2538547	0	#NAME?	0.04080496
ENSG00000247498.5	551.8347065	66.24447424	-3.058364172	0.041179326
CSNK2A2	452.4150934	42.0741931	-3.426639552	0.041208828
FUT3	537.3127405	62.66369185	-3.100060373	0.041239342
ZNF883	424.4882358	35.80782392	-3.567377819	0.041336441
MATN2	1.117074305	220.2181171	7.623064199	0.041453663
MYO1H	1.117074305	220.2181171	7.623064199	0.041453663
ZBTB48	1.117074305	220.2181171	7.623064199	0.041453663
HERC6	4.468297218	254.2355498	5.830296814	0.041495709
G6PC	3.351222914	244.3883982	6.188344334	0.041529879
ENSG00000273009.1	265.8636845	3.580782392	-6.214268069	0.026714279
MTERF3	513.8541801	57.29251826	-3.164940357	0.041799128
AACSP1	0	197.8382271	Inf	0.042010468
CTC-338M12.4	351.878406	4.475977989	-6.296730229	0.006240698
CCDC7	679.1811772	99.36671137	-2.772961953	0.042079553
ENSG00000267138.1	265.8636845	6.266369185	-5.406913147	0.042172508
GOLGA1	4.468297218	253.3403542	5.825207937	0.04222042
ACY1	5.585371523	262.2923102	5.553378454	0.042235788
COBLL1	5.585371523	262.2923102	5.553378454	0.042235788
PPP1R26P1	2.234148609	232.7508554	6.702917507	0.042256962
AGAP12P	628.9128335	86.83397299	-2.856528576	0.042259968
ABCC12	3.351222914	243.4932026	6.183050035	0.042322943
ATP10D	3.351222914	243.4932026	6.183050035	0.042322943
PCDHGB2	1.117074305	219.3229215	7.617187633	0.042399099
RPAIN	1.117074305	219.3229215	7.617187633	0.042399099
ZSCAN12P1	1.117074305	219.3229215	7.617187633	0.042399099
CENPT	7.819520132	279.3010265	5.158596991	0.042426261
MEF2D	12.28781735	305.2616989	4.634746004	0.04269259
BEND3P1	11.17074305	298.9953297	4.742325892	0.042825998
SELPLG	11.17074305	298.9953297	4.742325892	0.042825998
NKRF	510.5029572	57.29251826	-3.155500661	0.042852764
TMBIM4	346.2930344	20.58949875	-4.072012755	0.042881047
ENSG00000229190.1	212.2441179	0.895195598	-7.889305914	0.042941454
AKR1C1	264.7466102	6.266369185	-5.400838633	0.04297935
DNAJC11	7.819520132	278.4058309	5.153965542	0.04303041
TBXAS1	987.4936853	174.5631416	-2.500022552	0.043103734

CILP2	3.351222914	242.598007	6.177736235	0.043134014
MRPL22	454.649242	43.8645843	-3.373625446	0.043145201
RPL6	681.4153258	101.1571026	-2.751936776	0.043159063
ENSG00000231527.1	256.9270901	2.685586794	-6.579977856	0.02596254
ENSG00000236653.1	291.5563935	1.790391196	-7.347356303	0.009354965
SH2D2A	1.117074305	218.4277259	7.611287032	0.043360243
PPA2	349.6442573	21.48469435	-4.024506652	0.043516849
TAF1D	453.5321677	43.8645843	-3.370076379	0.043553988
ENSG00000224235.1	225.6490095	0.895195598	-7.977661789	0.030299357
GRK5	4.468297218	251.549963	5.814976014	0.043712651
IQCA1	4.468297218	251.549963	5.814976014	0.043712651
ZMAT3	4.468297218	251.549963	5.814976014	0.043712651
ELFN1	8.936594437	284.6722001	4.993432649	0.04384681
STX1A	3.351222914	241.7028114	6.17240279	0.043963933
CNN3P1	317.2491025	15.21832516	-4.381734584	0.043978374
CDH15	2.234148609	230.9604643	6.691776949	0.044045401
KIAA1841	2.234148609	230.9604643	6.691776949	0.044045401
INS-IGF2	11.17074305	297.2049385	4.73366103	0.044063449
NKAIN2	538.4298148	65.34927865	-3.042515083	0.044079607
AMPH	1.117074305	217.5325303	7.605362198	0.044335899
DCANP1	1.117074305	217.5325303	7.605362198	0.044335899
GNB3	1.117074305	217.5325303	7.605362198	0.044335899
MAN1C1	1.117074305	217.5325303	7.605362198	0.044335899
NEFL	1.117074305	217.5325303	7.605362198	0.044335899
QRFPR	1.117074305	217.5325303	7.605362198	0.044335899
TSSC2	1.117074305	217.5325303	7.605362198	0.044335899
ENSG00000230437.1	239.0539012	0.895195598	-8.060917292	0.021227463
ENSG00000259409.1	189.9026318	0	#NAME?	0.044430997
CHRNA4	826.6349854	138.7553177	-2.574707361	0.044436124
TEAD4	4.468297218	250.6547674	5.809832711	0.044480942
XPOTP1	392.0930809	30.43665033	-3.687314685	0.044499211
LOC780780	480.341951	51.02614908	-3.234753141	0.044512902
RPL3	780.8349389	128.0129705	-2.608727615	0.044798547
WISP1	3.351222914	240.8076158	6.167049556	0.044812857
WWTR1	3.351222914	240.8076158	6.167049556	0.044812857
C21orf58	13.40489166	307.9472857	4.521851948	0.044818869
LOC646626	293.7905421	0.895195598	-8.358369295	0.005668792
EPS8L1	7.819520132	275.7202441	5.139981313	0.044872107
EOGT	943.9277874	167.4015768	-2.495363377	0.04489723
HAO2	442.3614246	42.0741931	-3.394218074	0.044926768
CPEB1	662.4250626	98.47151577	-2.749978887	0.045121886

TRAV1-2	247.9904956	4.475977989	-5.791938077	0.045205992
MIR8088	210.0099693	0.895195598	-7.874039158	0.045263762
SOCS7	54.73664093	494.14797	3.174364307	0.0452906
C1orf106	6.702445828	266.7682882	5.314755714	0.045319161
FTCD	1.117074305	216.6373347	7.599412931	0.045324774
VIT	1.117074305	216.6373347	7.599412931	0.045324774
WDR38	1.117074305	216.6373347	7.599412931	0.045324774
ELN	60.32201245	515.6326644	3.095587193	0.045455435
ENSG00000261166.1	518.3224773	0	#NAME?	2.06E-05
B2M	402.1467497	33.12223712	-3.601850037	0.0454701
SETD2	20.10733748	340.1743272	4.080480301	0.045502644
ENSG00000266927.2	420.0199385	0	#NAME?	0.000137134
NXNL2	436.7760531	41.1789975	-3.406913147	0.045636698
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ILVBL	8.936594437	281.9866133	4.979757712	0.045780308
S100A7A	0	194.2574447	Inf	0.045863483
PPIEL	2.234148609	229.1700731	6.680549694	0.04590267
STAG3L3	487.0443968	53.71173587	-3.180744035	0.045939513
CTTNBP2	4.468297218	248.8643762	5.799490767	0.04606389
LOC390586	493.7468426	55.50212707	-3.153156555	0.046070942
MVK	1.117074305	215.7421391	7.59343903	0.046325481
OLFM1	1.117074305	215.7421391	7.59343903	0.046325481
PARP12	1.117074305	215.7421391	7.59343903	0.046325481
SLC25A53	1.117074305	215.7421391	7.59343903	0.046325481
RN7SL635P	266.9807588	7.161564783	-5.220317114	0.046371125
TPM3P9	492.6297683	55.50212707	-3.149888841	0.046463004
DIXDC1	29.04393192	382.2485203	3.718202235	0.046546119
FAM222A	7.819520132	273.0346574	5.125860204	0.046768386
PIAS4	700.405589	110.1090585	-2.669257433	0.046792911
CCDC130	2.234148609	228.2748775	6.674903131	0.046856884
GK5	2.234148609	228.2748775	6.674903131	0.046856884
TRIM36	2.234148609	228.2748775	6.674903131	0.046856884
HTRA3	4.468297218	247.9691806	5.79429186	0.046879392
LINC01473	246.8734213	0	#NAME?	0.00907388
LACTBL1	0	193.3622491	Inf	0.046880548
CCND2-AS1	220.063638	0	#NAME?	0.020163904
NMUR1	0	193.3622491	Inf	0.046880548
PHLPP1	18.99026318	332.1175668	4.128362229	0.04698374
RHO	967.3863478	176.3535328	-2.455621701	0.047095568
TMSB4X	630.0299078	92.20514658	-2.772501131	0.047252663
ENSG00000235450.1	218.9465637	0	#NAME?	0.020843114

DKC1	6.702445828	264.0827014	5.300158338	0.04736185
GPATCH3	3.351222914	238.122029	6.150869629	0.047474726
NAIF1	4.468297218	247.073985	5.789074151	0.047711494
FEM1AP2	0	192.4670535	Inf	0.047917704
PRDM13	0	192.4670535	Inf	0.047917704
ENSG00000259861.1	214.4782665	0	#NAME?	0.023702116
ZNF497	0	192.4670535	Inf	0.047917704
RPPH1	750.6739327	124.4321881	-2.592826656	0.048016792
CST3	796.4739792	136.0697309	-2.549281059	0.04803988
PCSK1N	426.7223844	40.2838019	-3.405026038	0.048213697
FAM27B	207.7758207	0	#NAME?	0.028283563
ENSG00000251458.1	198.8392262	0	#NAME?	0.035369157
CNPPD1	3.351222914	237.2268334	6.145435743	0.048400656
SNAP29	3.351222914	237.2268334	6.145435743	0.048400656
SH3TC1	1315.913531	256.9211366	-2.356667203	0.048446497
UAP1L1	4.468297218	246.1787894	5.783837502	0.048560651
DEFB124	322.834474	17.90391196	-4.172447894	0.048728295
PIH1D1	7.819520132	270.3490706	5.111599511	0.048735407
SELENOO	627.7957592	93.10034218	-2.753436908	0.048764065
MPG	607.6884217	87.72916859	-2.792203303	0.048780582
PRRT1	587.5810842	82.35799501	-2.834807339	0.048801145
KIAA1191	6.702445828	262.2923102	5.290344048	0.048805527
SMOX	6.702445828	262.2923102	5.290344048	0.048805527
ENSG00000228639.2	189.9026318	0	#NAME?	0.044430997
SLC25A35	2.234148609	226.4844863	6.663543269	0.048816972
ENSG00000254563.1	206.6587464	0.895195598	-7.850831767	0.048836064
KPNA2P2	489.2785454	56.39732267	-3.116957442	0.048930021
ENSG00000254363.2	0	191.5718579	Inf	0.048974122
ENSG00000266774.1	188.7855575	0	#NAME?	0.045693085
SRRM3	676.9470286	106.5282761	-2.667806526	0.049116698
HAS3	17.87318887	323.1656108	4.176404721	0.049244685
EFHC1	3.351222914	236.3316378	6.139981313	0.049346001
ENSG00000237473.1	186.5514089	0	#NAME?	0.048313639
RPUSD2	1.117074305	213.0565523	7.575367457	0.049383258
RETSAT	7.819520132	269.453875	5.106814449	0.049410042
MED10	511.6200315	62.66369185	-3.029371077	0.04950794
SNX16	317.2491025	17.00871636	-4.221269912	0.049630257
C17orf64	452.4150934	47.44536669	-3.253307949	0.049646657
LOC105370489	185.4343346	0	#NAME?	0.049668156
GRIN2D	5.585371523	253.3403542	5.503279842	0.04973115
MX1	5.585371523	253.3403542	5.503279842	0.04973115

CHKA	2.234148609	225.5892907	6.657829618	0.04983165
ENSG00000270194.1	2.234148609	225.5892907	6.657829618	0.04983165
SPATA31D1	2.234148609	225.5892907	6.657829618	0.04983165
HABP4	869.083809	156.6592296	-2.471865539	0.049890946
NDUFA11	14.52196596	306.1568945	4.397962491	0.049905337