

The following is a sampling of the supplemental data. To access the full supplemental excel file, please use this link:

https://www.dropbox.com/s/kn9a8u8e57qbyob/sample_Metadata_DE_GO_analysis_Derr%20et%20al%20Diabetes%20Sep%202022.xlsx?dl=0

Tab name/color	Contents
README	Explanatory notes for differential expression (DE) and gene ontology (GO) analyses
rats for 10X analysis	description of rats used for 10X single-cell RNA-Seq analysis
rats for histology and RNAscope	description of rats used for histology and RNAscope analysis
cellCounts	breakdown of cell counts by sample and test condition by cell type
beta	DE analysis statistics of beta cells for all comparisons
beta GO	GO analysis of most significantly differentially expressed genes for beta cells
hot betas	DE and GO analysis of "hot" beta cells
alpha	DE analysis statistics of alpha cells for all comparisons
alpha GO	GO analysis of most significantly differentially expressed genes for alpha cells
hot alphas	DE and GO analysis of "hot" alpha cells
macrophage	DE analysis statistics of macrophage cluster for all comparisons
macrophage GO	GO analysis of most significantly differentially expressed genes for macrophage cluster
hot macrophages	DE and GO analysis of "hot" macrophages and dendritic cells (DCs) and B cells from the macrophage cluster
Tcell	DE analysis statistics of T cells for all comparisons
Tcell GO	GO analysis of most significantly differentially expressed genes for T cells
stellate	DE analysis statistics of stellate cells for all comparisons
stellate GO	GO analysis of most significantly differentially expressed genes for stellate cells
delta	DE analysis statistics of delta cells for all comparisons
PP	DE analysis statistics of PP (gamma) cells for all comparisons
vascular	DE analysis statistics of vascular cells for all comparisons

Explanatory notes for differential expression (DE) and gene ontology (GO) analyses:

DE and GO analysis notes:

- Shorthand notation for the test conditions is as follows:

PBS11: PBS-only treatment, day 11 (control)
pIC11: 3 x pIC injections on days -3, -2, and -1, day 11 (control)
KRV11: 3 x pIC injections on days -3, -2, and -1, followed by KRV injection on day 0, study day 11
KRV9: 3 x pIC injections on days -3, -2, and -1, followed by KRV injection on day 0, study day 9
KRV7: 3 x pIC injections on days -3, -2, and -1, followed by KRV injection on day 0, study day 7

- Columns in the DE analyses:

LogFC: log2 fold-change, log (base 2) of the fold-change, where 1.0=2-fold, 2.0=4-fold, -1.0=0.5-fold, -2=0.25-fold, etc.
LR: likelihood ratio, using the glmLRT() function in the R/Bioconductor edgeR package to compute the likelihood ratio test based on the generalized likelihood model.
pAdj: p-value of the logFC, with Benjamini-Hochberg adjustment for multiple hypothesis testing

- Comparisons:

pIC11 vs PBS11: cells of the specified type from pIC11 vs PBS11 test conditions (controls). **Positive** logFC indicates higher expression in the **pIC11** condition
KRV11 vs pIC11: cells of the specified type from KRV11 vs pIC11 test conditions. **Positive** logFC indicates higher expression in the **KRV11** condition
KRV11 vs PBS11: cells of the specified type from KRV11 vs PBS11 test conditions. **Positive** logFC indicates higher expression in the **KRV11** condition
KRV11 vs KRV9: cells of the specified type from KRV11 vs KRV9 test conditions. **Positive** logFC indicates higher expression in the **KRV11** condition
KRV11 vs KRV7: cells of the specified type from KRV11 vs KRV7 test conditions. **Positive** logFC indicates higher expression in the **KRV11** condition
KRV9 vs KRV7: cells of the specified type from KRV9 vs KRV7 test conditions. **Positive** logFC indicates higher expression in the **KRV9** condition
hot vs cool KRV11: "hot" cells (shown in Figure 2A/2B) from the KRV11 test condition vs the other cells of the specified type (alpha or beta) from the KRV11 condition. **Positive** logFC indicates higher expression in the **"hot"** cells.
hot vs nonKRV: "hot" cells (Figure 2A/2B) from the KRV11 test condition vs the other cells of the specified type (alpha or beta) from the PBS11 and pIC11 conditions. **Positive** logFC indicates higher expression in the **"hot"** cells.
cool KRV11 vs nonKRV: cells **not** labeled as "hot" (Figure 2A/2B) from the KRV11 test condition vs the other cells of the specified type (alpha or beta) from the PBS11 and pIC11 conditions. **Positive** logFC indicates higher expression in the **"cool"** KRV11 cells.
hot macrophages vs others...: "hot" macrophages (shown in Figure 3A) vs other cells from the macrophage cluster, with doublets, B cells and DCs removed, regardless of test condition. **Positive** logFC indicates higher expression in the **"hot" macrophages**.
Dendritic cells vs others...: dendritic cells (DCs) (shown in Figure 3A) vs other cells from the macrophage cluster, with doublets, B cells and macrophages removed, regardless of test condition. **Positive** logFC indicates higher expression in **DCs**.
B cells vs others...: B cells (shown in Figure 3A) vs other cells from the macrophage cluster, with doublets, macrophages and DCs removed, regardless of test condition. **Positive** logFC indicates higher expression in **B cells**.

GO analysis:

- All GO analysis was performed using the DAVID online tool (<https://david.ncifcrf.gov/tools.jsp>) to identify significantly enriched BP (biological process) categories.
- Results were considered significant if the *adjusted* p-value (Benjamini) was less than 5e-2 (0.05).
- All analyses used the gene list of highlighted genes (OFFICIAL_GENE_SYMBOL), using the *rattus norvegicus* background, and restricting the species to *rattus norvegicus*.
- GO analysis columns:
 - Term: GO BP pathway name
 - Count: number of genes in the list that are found in the pathway gene list
 - %: percent of genes in the list that are found in the pathway gene list
 - P-Value: p-value of the hypergeometric test using the provided gene list and the list of genes in the GO pathway
 - Benjamini: p-value adjusted for multiple hypothesis testing using the Benjamini-Hochberg method.

Note: for "hot" cell comparisons, DE results and GO category analysis are presented in the same tab.

Alpha and beta cell analyses:

- Before doing any DE analysis, all cells identified as doublets were removed. The primary goal was to remove any endocrine cell doublets (alpha/beta, beta/delta, etc.), so a small number of doublets with non-endocrine cells (alpha/acinar, beta/ductal, etc.) may be included in any of these populations.
- Endocrine doublets were identified as cells with high expression of more than one of the cell-type-specific marker genes - *Gcg* for alpha cells, *Ins1/Ins2* for beta cells, *Sst* for delta cells, *Ppy* for PP cells, and *Ghr1* for epsilon cells. Cells that contain more than a threshold number of transcripts of more than one marker gene are considered doublets. Cells with high expression of both *Ins1/Ins2* and *Gcg* are specifically labeled 'ab-doublets' (alpha/beta doublets).

General Notes:

- *LOC100911498* is an X-linked ncRNA similar to *XIST* in humans. Its high rank in the DE gene lists for some of the comparisons is presumably due to the fact that female rats were only included in the KRV7, KRV9, and KRV11 conditions, whereas all rats in the control conditions (PBS11 and pIC11) were male. This should be considered an artifact, and is highlighted in yellow in the gene lists.
- The genes that were selected for GO biological process (BP) analysis are highlighted either in green (for upregulated genes) or pink (for downregulated genes).
- Light green highlighting indicates that the logFC threshold for gene selection for GO analysis was set to 1.0 (2-fold). Dark green highlighting indicates that the threshold was set to 2.0 (4-fold) to reduce the length of the selected gene list and identify only the most highly significant GO categories.
- delta, PP, and vascular cell DE results are included for completeness, but no GO analysis was performed for these cell types.

Treatment	Day of harvest	Induction date	Rat # / Sex	Sequencing ID
pIC (control)	11	5/26/21	#2 - M	AA2
		5/26/21	#3 - M	AA3
PBS (control)	11	5/29/21	#7 - M	AA7
		5/29/21	#8 - M	AA8
pIC+KRV	7	7/5/21	#18 - M	AA18
		7/5/21	#19 - F	AA19
pIC+KRV	9	7/5/21	#21 - F	AA21
		7/5/21	#22 - M	AA22
pIC+KRV	11	6/13/21	#15 - F	AA15
		6/13/21	#17 - F	AA17

# cells	#reads/cell	UMI/cell	genes/cell
8000	22.7k	12533.6	1357.8
6827	25.4k		
5303	19.0k	10299.1	1291.4
7823	20.0k		
5652	28.8k	13860.9	1433.8
6052	27.7k		
7078	26.9k	12347	1571.6
5082	27.5k		
6462	24.7k	11894.8	1684.3
3323	25.5k		

	Day of harvest	Induction date	Rat # / Sex	Insulinitis score	Used for RNA-ISH image analysis
pIC (control)	11	5/26/21	#4 - F	0	No
		5/26/21	#5 - F	0	No
		5/26/21	#6 - F	0	No
PBS (control)	7	1/20/22	#60 - M	0	Yes
		1/20/22	#61 - M	0	Yes
		1/20/22	#62 - M	0	Yes
PBS (control)	9	1/20/22	#57 - M	0	No
		1/20/22	#58 - M	0	No
		1/20/22	#59 - M	0	No
PBS (control)	11	5/29/21	#11 - F	0	Yes
		5/29/21	#12 - F	0	Yes
		5/29/21	#13 - F	0	Yes
pIC+KRV	5	8/15/22	#66 - M	0	No
		8/15/22	#67 - M	0	No
		8/15/22	#68 - F	0	No
pIC+KRV	7	7/5/21	#28 - M	0	No
		7/5/21	#29 - F	1	No
		7/5/21	#30 - F	1	No
pIC+KRV	9	7/5/21	#31 - M	0	No
		7/5/21	#32 - F	2	No
		7/5/21	#33 - F	1	No
		11/6/21	#37 - M	1	Yes
		11/6/21	#38 - M	1	Yes
		11/6/21	#39 - F	2	Yes
		11/6/21	#40 - F	1	No
		11/12/21	#41 - M	1	Yes
		11/12/21	#42 - M	1	Yes
		11/12/21	#43 - M	1	Yes
		11/12/21	#44 - M	1	Yes
		11/12/21	#45 - M	2	Yes
		11/12/21	#46 - F	2	Yes
pIC+KRV	11	6/13/21	#23 - M	4	No
		6/13/21	#24 - M	1	No
		6/13/21	#25 - M	0	No
		6/13/21	#26 - M	1	No
		6/13/21	#47 - M	2	Yes
		11/6/21	#48 - M	4	No
		11/6/21	#49 - M	4	Yes
		11/6/21	#50 - F	1	No
		11/6/21	#51 - M	3	Yes
		11/12/21	#52 - M	2	Yes
		11/12/21	#53 - M	4	No
		11/12/21	#54 - M	2	Yes
		11/12/21	#55 - M	2	Yes
		11/12/21	#56 - F	3	Yes

PBS, Day11		pIC, Day11		pIC+KRV, Day7		pIC+KRV, Day9		pIC+KRV, Day11				PBS, Day11		pIC, Day11		pIC+KRV, Day7		pIC+KRV, Day9		pIC+KRV, Day11	
AA7	AA8	AA2	AA3	AA18	AA19	AA21	AA22	AA15	AA17			AA7	AA8	AA2	AA3	AA18	AA19	AA21	AA22	AA15	AA17
846	1625	2328	1728	1663	1659	2148	1366	2114	805			alpha	16.0%	20.8%	29.1%	25.3%	29.4%	27.0%	30.3%	26.9%	32.7%
2263	3207	3673	3580	2470	2866	2745	2030	2539	1571	beta	42.8%	41.0%	45.9%	52.4%	43.7%	46.7%	38.8%	39.9%	39.3%	47.3%	
83	122	89	100	83	93	130	97	130	60	delta	1.6%	1.6%	1.1%	1.5%	1.5%	1.5%	1.8%	1.9%	2.0%	1.8%	
123	236	144	275	187	227	174	250	206	44	PP	2.3%	3.0%	1.8%	4.0%	3.3%	3.7%	2.5%	4.9%	3.2%	1.3%	
2	0	0	2	2	1	3	4	1	0	epsilon	0.04%	0%	0%	0.03%	0.04%	0.02%	0.04%	0.08%	0.02%	0%	
852	1045	534	236	228	237	279	188	238	132	ab_doub	16.1%	13.4%	6.7%	3.5%	4.0%	3.9%	3.9%	3.7%	3.7%	4.0%	
768	863	811	633	521	633	676	482	502	228	doublet	14.5%	11.0%	10.1%	9.3%	9.2%	10.3%	9.6%	9.5%	7.8%	6.9%	
0	0	0	0	17	17	52	50	111	113	Tcell	0%	0%	0%	0%	0.3%	0.3%	0.7%	1.0%	1.7%	3.4%	
52	166	149	48	105	102	160	117	194	121	macrophage	1.0%	2.1%	1.9%	0.7%	1.9%	1.7%	2.3%	2.3%	3.0%	3.6%	
61	117	75	60	132	95	296	210	154	93	stellate	1.2%	1.5%	0.9%	0.9%	2.3%	1.5%	4.2%	4.1%	2.4%	2.8%	
196	329	155	136	209	181	314	232	255	142	vascular	3.7%	4.2%	1.9%	2.0%	3.7%	2.9%	4.4%	4.6%	3.9%	4.3%	
27	73	42	29	35	31	44	56	18	14	RBC	0.5%	0.9%	0.5%	0.4%	0.6%	0.5%	0.6%	1.1%	0.3%	0.4%	
10	40	0	0	0	0	57	0	0	0	NK	0.2%	0.5%	0%	0%	0%	0%	0.8%	0%	0%	0%	
5283	7823	8000	6827	5652	6142	7078	5082	6462	3323												

ion:

PBS, Day11	pIC, Day11	pIC+KRV, Day7	pIC+KRV, Day9	pIC+KRV, Day11	PBS, Day11	pIC, Day11	pIC+KRV, Day7	pIC+KRV, Day9	pIC+KRV, Day11
2471	4056	3322	3514	2919	alpha	18.9%	27.4%	28.2%	28.9%
5470	7253	5336	4775	4110	beta	41.7%	48.9%	45.2%	39.3%
205	189	176	227	190	delta	1.6%	1.3%	1.5%	1.9%
359	419	414	424	250	PP	2.7%	2.8%	3.5%	3.5%
2	2	3	7	1	epsilon	0.02%	0.01%	0.03%	0.06%
1897	770	465	467	370	ab_doub	14.5%	5.2%	3.9%	3.8%
1631	1444	1154	1158	730	doublet	12.4%	9.7%	9.8%	9.5%
0	0	34	102	224	Tcell	0.0%	0.0%	0.3%	0.8%
218	197	207	277	315	macrophage	1.7%	1.3%	1.8%	2.3%
178	135	227	506	247	stellate	1.4%	0.9%	1.9%	4.2%
525	291	390	546	397	vascular	4.0%	2.0%	3.3%	4.5%
100	71	66	100	32	RBC	0.8%	0.5%	0.6%	0.8%
50	0	0	57	0	NK	0.4%	0.0%	0.0%	0.5%
13106	14827	11794	12160	9785					

PBS, Day11	pIC, Day11	pIC+KRV, Day7	pIC+KRV, Day9	pIC+KRV, Day11	PBS, Day11	pIC, Day11	pIC+KRV, Day7	pIC+KRV, Day9	pIC+KRV, Day11
0	0	4	48	624	hot' beta	0% of betas	0% of betas	0.075% of betas	1.0% of betas
0	0	5	52	591	hot' alpha	0% of all	0% of all	0.034% of all	0.39% of all
						0% of alphas	0% of alphas	0.15% of alphas	1.5% of alphas
						0% of all	0% of all	0.059% of all	0.4% of all

piC11 vs PBS11	logFC	LR	pAdj		KRV11 vs piC11	logFC	LR	pAdj		KRV11 vs PBS11	logFC	LR	pAdj		KRV11 vs KRV9	logFC	LR	pAdj		KRV11 vs KRV7	logFC	LR	pAdj		KRV9 vs KRV7	logFC	LR	pAdj	
Gcg	1.578259	2094.417	0		Ubd	5.503695	1553.071	0		Ubd	5.527755	1368.713	1.51E-297		Ubd	4.361588	420.3177	2.53E-91		Ubd	5.59129	1223.103	1.16E-265		Ubd	1.456509	697.3728	7.94E-151	
B2m	0.686783	1008.266	9.54E-218		LOC100911498	4.932438	24035.43	0		Cxc10	4.929048	1102.602	7.66E-240		Cxc10	3.908478	444.7473	1.34E-96		Cxc10	4.974539	1002.198	8.53E-218		Mcpt111	1.40136	272.4414	6.63E-59	
Myf6l	0.644365	619.7096	5.48E-134		Cxc10	4.828847	1323.739	1.14E-287		LOC100911498	4.878755	18165.42	0		LOC100910973	3.483036	683.496	2.72E-148		LOC100910973	3.935337	1040.355	4.63E-226		Cma1	1.310553	262.2275	1.03E-56	
RT1-CE10	0.628078	306.492	1.84E-65		LOC100910973	4.266377	2031.961	0		Cxc11	4.134472	1398.238	6.33E-304		Cxc11	3.209971	876.4321	5.07E-190		Cxc11	3.639312	1344.106	6.65E-292		Ubd	1.259375	134.503	3.17E-29	
Gast	0.617399	81.49097	6.25E-18		Igk15	3.38951	1664.898	0		Cxc11	3.79154	1419.994	0.00E-000		Igk15	3.109892	839.0305	6.31E-182		Igk15	3.169838	1045.845	3.00E-227		Cxc10	1.098889	64.54498	2.80E-14	
Rpl13a	0.544321	1147.731	6.20E-248		Cxc11	3.3791	1699.483	0		B2m	2.950349	6911.557	0		Prsr1	2.529175	557.0069	6.74E-121		Prsr1	2.605519	1221.136	3.01E-265		Cpa3	0.799449	196.6294	1.42E-42	
Kik1b3a	0.521538	221.1804	1.56E-48		Psmb8	2.642684	1935.168	0		Psmb8	2.652346	675.3126	1.61E-146		MGC108823	2.54387	1548.075	0		MGC108823	2.54387	1548.075	0		Pc10	0.618991	404.0592	3.84E-95	
RT1-CE10	0.505519	217.0312	4.02E-47		RT1-CE5	2.600619	3705.356	0		RT1-CE5	2.616782	2983.169	0		Ctrb1	2.267988	373.1915	3.92E-81		Ctrb1	2.409522	1261.694	5.14E-274		LOC100362110	0.543569	336.4221	1.06E-72	
Pagr1	0.499977	192.2824	9.02E-42		MGC108823	2.593147	1732.208	0		Psmb9	2.591771	1670.31	0		Gbp2	2.256555	730.338	1.62E-80		Gbp2	2.350897	585.7908	1.58E-127		Myf6l	0.516353	366.8394	2.81E-79	
Rn18s	0.48086	1989.581	4.39E-124		Tap1	2.54306	1989.581	0		Tap1	2.532065	1857.855	0		Tap1	2.205267	974.179	3.58E-211		Tap1	2.236787	1235.175	2.80E-268		Peg3	0.513586	511.8648	1.05E-110	
Nrn	0.494924	262.9334	4.64E-57		Psmb9	2.468072	1894.588	0		MGC108823	2.530829	1268.024	1.03E-275		Amy2a3	1.249019	223.0468	1.14E-48		Amy2a3	2.08849	424.8264	1.20E-92		Prrc2c	0.494083	492.9134	1.36E-106	
Mr2985	0.75581	175.1139	4.44E-38		Prs1	2.463584	847.1418	2.24E-184		Igk15	2.513454	724.017	8.96E-138		Irfl1	2.207038	1950.347	0		Irfl1	2.036899	1061.529	1.20E-230		LOC100910973	0.49296	23.99905	1.13E-05	
Ndufb11	0.47449	823.671	6.49E-178		Irfl27	2.44241	744.8114	3.37E-162		Ctrb1	2.479793	595.1722	7.51E-130		Psmb8	1.976308	754.7894	1.10E-163		Irfl27	2.031194	1198.104	2.97E-260		Utrn	0.468771	158.3293	2.31E-34	
Rpl21	0.47205	594.6018	1.45E-128		Gbp2	2.335606	917.7638	1.13E-199		Gbp2	2.284042	679.1581	4.65E-148		Psmb9	1.863522	738.0021	4.43E-160		Irgm	1.923837	1039.092	8.62E-226		Mr325	0.478066	138.8247	3.81E-30	
Rps18	0.453791	953.4805	6.19E-206		B2m	2.239668	6197.894	0		Prsr1	2.27058	474.3817	1.08E-103		Irfl1	1.834416	719.8426	3.86E-156		LOC1048592	0.473044	251.8228	1.72E-54						
Slc3a1	0.452956	143.5514	2.73E-31		Amy2a3	2.191835	391.0578	1.54E-85		RT1-A1	2.214186	2104.101	0		RT1-A1	1.804877	1325.899	2.01E-287		RT1-CE10	0.471883	194.8248	4.70E-42						
Ubc	0.449927	342.424	3.40E-74		RT1-A1	2.182228	2526.496	0		Amy2a3	2.092449	228.7223	1.67E-50		Cd74	1.781422	241.0513	1.44E-52		Cxc19	1.824295	214.9373	3.04E-47						
Leng8	0.436853	133.7271	3.63E-29		Irfl27	2.141895	3357.007	0		Cd74	2.04484	476.9718	2.96E-104		Irfl47	1.774924	686.5068	4.71E-145		Stat1	1.78694	1221.814	2.18E-265		Hsp4a	0.465118	203.2143	5.46E-44	
Rack1	0.428835	533.5795	1.96E-115		Irfl1	2.085408	1428.015	2.77274728700577e-311		Irfl1	1.987711	1037.642	9.36E-226		Irgm	1.696981	689.1904	1.63E-145		RT1-A1	1.759754	1360.267	2.12E-295		Il1r1	0.462667	124.3672	4.64E-27	
Rpl12	0.426551	715.5044	1.69E-154		Cd74	2.077545	635.1885	1.90E-138		Irfl47	1.984771	1251.588	3.80E-272		Cxc19	1.524607	86.48278	2.86E-19		Igtp	1.519881	706.5328	1.14E-153		Hdtpb	0.458265	304.4351	8.92E-66	
Ppyl2	0.423441	167.4388	2.98E-36		Zbed5	2.067514	102.38.39	0		Zbed5	1.984715	7690.686	0		Zbed5	1.472466	484.332	0		Gat8	1.378259	199.4065	6.90E-44		Ubc	0.456795	345.258	1.32E-74	
Krt19	0.416608	109.0118	7.78E-24		Manf	2.033074	9107.337	0		Irgm	1.917279	1067.188	3.68E-232		Pht2	1.424647	1190.693	3.97E-358		Cxc11	1.355368	1081.215	6.38E-235		Cxc11	0.545463	57.88985	7.27E-13	
Rps17	0.412305	496.5115	1.91E-107		Irfl47	2.005911	1553.014	0		Cxc19	1.816552	363.4693	1.10E-79		Stat1	1.410817	176.9031	1.62E-155		B2m	1.35171	1924.131	0		Psmb8	0.451658	76.79974	6.83E-17	
Rbp4	0.411397	64.1453	2.54E-14		Irgm	1.996087	1426.241	6.65520361968473e-311		RT1-A1	1.785994	1657.39	0		Manf	1.399759	3682.809	0		Serping1	1.330687	676.995	2.80E-147		RT1-A2	0.451296	162.4441	3.37E-35	
Cxc11	0.409311	491.2106	1.18E-20		Cxc19	1.847959	504.0896	2.47E-98		Manf	1.763388	5654.793	0		Cela2a	1.367237	176.3129	1.31E-38		Tapb1	1.299264	698.8678	5.22E-152		Trp12	0.447062	134.0427	3.95E-29	
Rps16	0.399622	634.8046	3.33E-137		Stat1	1.816712	1551.268	0		Stat1	1.756175	1161.506	1.26E-252		Gast	1.356811	154.4528	6.48E-34		RT1-S3	1.28903	483.9114	1.89E-105		Golg4a	0.434189	252.1923	1.44E-54	
Gas5	0.397046	163.3513	1.57E-35		RT1-S3	1.756621	1199.819	8.47E-261		RT1-CE10	1.637944	1415.598	1.11E-307		Stat1	1.356027	451.9102	3.81E-98		Mem140	1.286412	619.1831	9.09E-138		Gadd45g	0.432288	281.4841	7.66E-61	
Rps27a	0.393225	837.108	8.78E-181		Pht2a	1.655903	1963.196	0		Serping1	1.623562	972.3563	1.33E-211		Cope	1.319268	970.1217	2.63E-210		Manf	1.275708	3262.105	0		B2m	0.428991	281.7701	6.74E-61	
Mvp	0.392439	112.1504	1.67E-24		Serping1	1.578815	1135.832	6.35E-247		Rn18s	1.611889	6150.942	0		Philp	1.307515	150.3028	5.13E-33		Psmb10	1.275708	3262.105	0		Calr	0.428188	749.9674	3.68E-162	
Rn45s	0.39225	591.3905	6.92E-128		Igtp	1.565907	965.8775	4.51E-210		Igtp	1.533332	760.3649	1.19E-165		Igtp	1.270961	443.9905	4.94E-96		Rtp4	1.270766	670.088	8.70E-146		Fa2	0.427249	140.1973	1.95E-30	
Rpl51	0.389791	770.9437	1.66E-166		Pkm	1.516918	4498.246	0		Psm1	1.50788	1882.112	0		Irfl7	1.24951	395.9369	4.78E-86		Irfl7	1.257881	409.655	2.28E-89		Map2	0.418296	128.4169	6.32E-28	
Ppp1r14b	0.388739	451.1736	1.05E-97		Cela2a	1.505035	361.49	8.88E-79		Cela2a	1.47782	243.7487	9.30E-54		Psmb10	1.226828	625.0162	1.23E-135		Oas2	1.166297	509.5766	5.21E-111		Rn18s	0.415839	467.8192	3.70E-101	
Rpl32	0.386356	851.592	7.27E-184		Cope	1.494852	1574.812	0		Psmb10	1.447899	877.8502	4.09E-191		Rtp4	1.224216	537.2003	1.34E-116		Parp14	1.159213	492.0884	3.22E-107		Golg1b	0.412143	175.6365	4.86E-38	
Rps10	0.384327	662.1953	3.90E-143		Jun	1.476556	708.8176	2.18E-154		RT1-S3	1.405259	586.9471	4.05E-128		Iftm3	1.224172	76.29025	4.35E-17		Ras2	1.133783	250.0172	8.01E-55		Dnajc3	0.410085	302.3434	2.50E-65	
Rpl18a	0.382318	591.2393	7.17E-128		Ube2l6	1.440431	957.3868	3.08E-208		Chga	1.40057	1183.429	1.78E-257		Cmps	1.218051	162.2465	1.38E-35		Zbed5	1.1331	3097.525	0		Pnm8a	0.406869	134.1346	3.80E-29	
Rabac1	0.381958	376.7847	1.36E-81		Tapb1	1.368526	926.4668	1.51E-201		Tapb1	1.352053	2320.401	0		Tmem140	1.183239	489.3349	3.70E-106		Stat1	1.113197	505.6205	3.76E-110		Slc13a1	0.406413	110.5308	4.19E-24	
Lamtor2	0.381446	318.923	3.85E-69		Irfl7	1.353701	700.5442	1.34E-152		Tmem140	1.334091	680.925	1.93E-148		Tapb1	1.17103	532.1831	1.63E-115		Pht2a	1.103966	802.3805	1.92E-174		Gsdma	0.402236	126.3681	7.15E-57	
Ndrf1	0.381381	206.8333	3.63E-45		Iftm3	1.310165	765.0998	1.17E-36		Tapb1	1.329497	720.6898	4.66E-157		Serping1	1.16031	474.0158	6.27E-103		Chga	1.095034	1511.175	0		Snhg11	0.40064	581.3586	9.52E-126	
Cox6a1	0.381257	483.4536	1.15E-104		Psm1	1.302723	1850.504	0		Gast	1.32804	189.9537	4.06E-42		Gast	1.135052	421.5651	1.38E-91		Jun	1.093582	342.2252	8.70E-75		Cadps	0.398097	93.33851	2.04E-20	
Rps11	0.381173	562.8296	9.35E-122		Tmem140	1.294664	770.247	1.02E-167		Pkm	1.283547	2765.895	0		Ras2	1.127824	183.8273	3.17E-40		Ube2l6	1.093038	495.639	5.48E-108		Hyoa1	0.394834	214.0765	1.47E-46	
Myf6l	0.380393	360.087	5.46E-78		Philp	1.292051	235.1194	8.36E-52		Philp	1.272013	162.8044	3.04E-36																

KRV11 vs PBS11

Term	Count	%	P-Value	Benjamini
cellular response to interferon-beta	7	10.9	1.20E-09	4.60E-07
defense response	7	10.9	8.90E-09	1.70E-06
defense response to virus	8	12.5	1.60E-07	2.00E-05
immune response	9	14.1	2.00E-06	1.90E-04
positive regulation of cAMP metabolic process	4	6.2	3.60E-06	2.70E-04
antigen processing and presentation of peptide antigen via MHC class I	5	7.8	5.10E-06	3.20E-04
positive regulation of leukocyte chemotaxis	4	6.2	1.40E-05	7.40E-04
positive regulation of T cell mediated cytotoxicity	4	6.2	2.90E-05	1.40E-03
negative regulation of viral genome replication	4	6.2	1.20E-04	4.40E-03
digestion	4	6.2	1.20E-04	4.40E-03
response to virus	5	7.8	1.40E-04	4.60E-03
antigen processing and presentation of endogenous peptide antigen via MHC class I	3	4.7	1.50E-04	4.70E-03
positive regulation of cAMP-mediated signaling	3	4.7	8.90E-04	2.60E-02

KRV11 vs PBS11

Term	Count	%	P-Value	Benjamini
translation	7	50	8.00E-08	6.70E-06

KRV11 vs pIC11

Term	Count	%	P-Value	Benjamini
defense response	9	13.2	3.90E-12	1.80E-09
cellular response to interferon-beta	7	10.3	1.90E-09	4.20E-07
positive regulation of T cell mediated cytotoxicity	6	8.8	4.40E-09	6.60E-07
defense response to virus	9	13.2	1.20E-08	1.40E-06
negative regulation of viral genome replication	5	7.4	3.20E-06	2.50E-04
immune response	9	13.2	3.40E-06	2.50E-04
positive regulation of cAMP metabolic process	4	5.9	4.50E-06	2.90E-04
antigen processing and presentation of peptide antigen via MHC class I	5	7.4	6.70E-06	3.80E-04
response to virus	6	8.8	8.80E-06	4.40E-04
positive regulation of leukocyte chemotaxis	4	5.9	1.70E-05	7.60E-04
digestion	4	5.9	1.40E-04	5.90E-03
antigen processing and presentation of endogenous peptide antigen via MHC class I	3	4.4	1.70E-04	6.40E-03
response to interferon-beta	3	4.4	4.10E-04	1.40E-02
response to mechanical stimulus	5	7.4	4.40E-04	1.40E-02
protein refolding	3	4.4	5.10E-04	1.50E-02
positive regulation of cAMP-mediated signaling	3	4.4	1.00E-03	2.90E-02

KRV11 vs KRV9

Term	Count	%	P-Value	Benjamini
cellular response to interferon-beta	7	14.9	2.30E-10	6.70E-08
defense response	7	14.9	1.70E-09	2.50E-07
defense response to virus	7	14.9	6.60E-07	6.40E-05
immune response	7	14.9	4.50E-05	3.10E-03
digestion	4	8.5	5.30E-05	3.10E-03
positive regulation of cAMP metabolic process	3	6.4	2.60E-04	1.30E-02
positive regulation of cAMP-mediated signaling	3	6.4	5.20E-04	2.20E-02
positive regulation of leukocyte chemotaxis	3	6.4	6.00E-04	2.20E-02
response to virus	4	8.5	1.10E-03	3.40E-02

KRV9 vs KRV7

Term	Count	%	P-Value	Benjamini
immune response	3	60	6.90E-04	3.20E-02

KRV11 vs KRV7

Term	Count	%	P-Value	Benjamini
cellular response to interferon-beta	7	16.3	1.10E-10	3.60E-08
defense response	7	16.3	7.90E-10	1.30E-07
defense response to virus	7	16.3	3.10E-07	3.50E-05
positive regulation of cAMP metabolic process	4	9.3	1.10E-06	9.40E-05
immune response	7	16.3	2.20E-05	1.50E-03
antigen processing and presentation of endogenous peptide antigen via MHC class I	3	7	6.80E-05	3.90E-03
positive regulation of cAMP-mediated signaling	3	7	4.10E-04	2.00E-02
positive regulation of leukocyte chemotaxis	3	7	4.70E-04	2.00E-02
response to virus	4	9.3	7.40E-04	2.60E-02
positive regulation of T cell mediated cytotoxicity	3	7	7.60E-04	2.60E-02
defense response to Gram-positive bacterium	4	9.3	1.00E-03	3.20E-02

KRV11 vs KRV7

Term	Count	%	P-Value	Benjamini
translation	9	39.1	6.90E-09	4.30E-07
digestion	3	13	5.80E-04	1.80E-02

Count	%	P-Value	Benjamini
9	15.8	6.40E-14	2.10E-11
9	15.8	9.90E-13	1.70E-10
10	17.5	1.00E-10	1.20E-08
9	15.8	9.40E-07	7.90E-05
5	8.8	1.60E-06	1.10E-04
5	8.8	3.50E-06	1.90E-04
6	10.5	3.90E-06	1.90E-04
4	7	2.20E-05	9.10E-04
7	12.3	1.10E-04	3.70E-03
3	5.3	1.20E-04	3.70E-03
3	5.3	1.20E-04	3.70E-03
3	5.3	1.70E-04	4.80E-03
3	5.3	2.90E-04	7.60E-03
3	5.3	3.70E-04	8.80E-03
3	5.3	7.40E-04	1.60E-02
3	5.3	8.50E-04	1.80E-02

Count	%	P-Value	Benjamini
9	14.3	1.20E-13	4.70E-11
9	14.3	1.90E-12	3.70E-10
11	17.5	6.70E-12	8.60E-10
6	9.5	3.40E-08	3.30E-06
7	11.1	2.10E-07	1.60E-05
9	14.3	1.70E-06	1.10E-04
5	7.9	4.70E-06	2.60E-04
4	6.3	2.70E-05	1.30E-03
3	4.8	1.40E-04	5.60E-03
3	4.8	1.40E-04	5.60E-03
7	11.1	1.60E-04	5.70E-03
3	4.8	2.00E-04	6.50E-03
7	11.1	2.40E-04	7.10E-03
3	4.8	3.40E-04	9.50E-03
3	4.8	4.30E-04	1.10E-02
6	9.5	8.20E-04	2.00E-02
3	4.8	8.60E-04	2.00E-02
3	4.8	9.90E-04	2.10E-02

Count	%	P-Value	Benjamini
9	2.3	1.80E-08	3.00E-05
13	3.3	7.60E-08	6.20E-05
8	2	3.00E-07	1.60E-04
10	2.6	7.70E-07	3.10E-04
14	3.6	1.30E-06	4.10E-04
13	3.3	2.40E-06	6.40E-04
16	4.1	7.70E-06	1.80E-03
6	1.5	1.10E-05	2.20E-03
7	1.8	1.20E-05	2.20E-03
9	2.3	1.40E-05	2.30E-03
12	3.1	5.80E-05	8.70E-03
4	1	7.60E-05	1.00E-02
9	2.3	1.40E-04	1.80E-02
8	2	2.70E-04	3.20E-02
8	2	3.00E-04	3.30E-02
6	1.5	3.40E-04	3.40E-02
4	1	4.10E-04	3.90E-02
7	1.8	5.00E-04	4.60E-02
5	1.3	5.80E-04	4.90E-02
4	1	6.00E-04	4.90E-02

hot' beta cell DE pathways		
pathway#	Symbol	description
1	Gbp2	guanylate binding protein 2(Gbp2)
	Irgm	immunity-related GTPase M(Irgm)
	Igtp	interferon gamma induced GTPase(Igtp)
	Ifi47	interferon gamma inducible protein 47(Ifi47)
	Irf1	interferon regulatory factor 1(Irf1)
	Stat1	signal transducer and activator of transcription 1(Stat1)
	MGC105567	similar to cDNA sequence BC023105(MGC105567)
	MGC108823	similar to interferon-inducible GTPase(MGC108823)
	RGD1309362	similar to interferon-inducible GTPase(RGD1309362)
2	Cd74	CD74 molecule(Cd74)
	Tapbp	TAP binding protein(Tapbp)
	Irgm	immunity-related GTPase M(Irgm)
	Igtp	interferon gamma induced GTPase(Igtp)
	Ifi47	interferon gamma inducible protein 47(Ifi47)
	MGC105567	similar to cDNA sequence BC023105(MGC105567)
	MGC108823	similar to interferon-inducible GTPase(MGC108823)
	RGD1309362	similar to interferon-inducible GTPase(RGD1309362)
	Tap1	transporter 1, ATP binding cassette subfamily B member(Tap1)
3	Oasl2	2'-5' oligoadenylate synthetase-like 2(Oasl2)
	Cxcl10	C-X-C motif chemokine ligand 10(Cxcl10)
	Cxcl9	C-X-C motif chemokine ligand 9(Cxcl9)
	Isg15	ISG15 ubiquitin-like modifier(Isg15)
	Mx2	MX dynamin like GTPase 2(Mx2)
	Bst2	bone marrow stromal cell antigen 2(Bst2)
	Ifitm3	interferon induced transmembrane protein 3(Ifitm3)
	Irf1	interferon regulatory factor 1(Irf1)
	Rsad2	radical S-adenosyl methionine domain containing 2(Rsad2)
	Stat2	signal transducer and activator of transcription 2(Stat2)
4	Oasl2	2'-5' oligoadenylate synthetase-like 2(Oasl2)
	Cxcl10	C-X-C motif chemokine ligand 10(Cxcl10)
	Cxcl11	C-X-C motif chemokine ligand 11(Cxcl11)
	Cxcl9	C-X-C motif chemokine ligand 9(Cxcl9)
	Cd74	CD74 molecule(Cd74)
	RT1-CE10	RT1 class I, locus CE10(RT1-CE10)
	RT1-CE5	RT1 class I, locus CE5(RT1-CE5)
	RT1-A1	RT1 class Ia, locus A1(RT1-A1)
	RT1-A2	RT1 class Ia, locus A2(RT1-A2)
5	Isg15	ISG15 ubiquitin-like modifier(Isg15)
	Mx2	MX dynamin like GTPase 2(Mx2)
	Bst2	bone marrow stromal cell antigen 2(Bst2)
	Ifitm3	interferon induced transmembrane protein 3(Ifitm3)
	Rsad2	radical S-adenosyl methionine domain containing 2(Rsad2)
6	RT1-CE10	RT1 class I, locus CE10(RT1-CE10)
	RT1-CE5	RT1 class I, locus CE5(RT1-CE5)
	RT1-A1	RT1 class Ia, locus A1(RT1-A1)
	RT1-A2	RT1 class Ia, locus A2(RT1-A2)
	RT1-S3	RT1 class Ib, locus S3(RT1-S3)
7	Oasl2	2'-5' oligoadenylate synthetase-like 2(Oasl2)
	Cxcl10	C-X-C motif chemokine ligand 10(Cxcl10)
	Mx2	MX dynamin like GTPase 2(Mx2)
	Bst2	bone marrow stromal cell antigen 2(Bst2)
	Ifitm3	interferon induced transmembrane protein 3(Ifitm3)
	Rsad2	radical S-adenosyl methionine domain containing 2(Rsad2)
8	RT1-A1	RT1 class Ia, locus A1(RT1-A1)
	RT1-A2	RT1 class Ia, locus A2(RT1-A2)
	RT1-S3	RT1 class Ib, locus S3(RT1-S3)
	B2m	beta-2 microglobulin(B2m)
9	Oasl2	2'-5' oligoadenylate synthetase-like 2(Oasl2)

'cool' beta cell DE pathways		
pathway#	Symbol	description
20	Dnajc3	DnaJ heat shock protein family (Hsp40) member C3(Dnajc3)
	Faf2	Fas associated factor family member 2(Faf2)
	Stt3b	STT3B, catalytic subunit of the oligosaccharyltransferase complex(Stt3b)
	Erp44	endoplasmic reticulum protein 44(Erp44)
	Hspa1a	heat shock 70kD protein 1A(Hspa1a)
	Hsp90ab1	heat shock protein 90 alpha family class B member 1(Hsp90ab1)
	Hspe1	heat shock protein family E member 1(Hspe1)
	Herpud1	homocysteine inducible ER protein with ubiquitin like domain 1(Herpud1)
	Manf	mesencephalic astrocyte-derived neurotrophic factor(Manf)
21	Ddrk1	DDRKG domain containing 1(Ddrk1)
	Ufl1	Ufm1-specific ligase 1(Ufl1)
	Xbp1	X-box binding protein 1(Xbp1)
	Erp29	endoplasmic reticulum protein 29(Erp29)
	Erp44	endoplasmic reticulum protein 44(Erp44)
	Eef2	eukaryotic translation elongation factor 2(Eef2)
	Hspa5	heat shock protein family A member 5(Hspa5)
	Herpud1	homocysteine inducible ER protein with ubiquitin like domain 1(Herpud1)
	Pdia3	protein disulfide isomerase family A, member 3(Pdia3)
	Pdia6	protein disulfide isomerase family A, member 6(Pdia6)
22	Sdf2l1	stromal cell-derived factor 2-like 1(Sdf2l1)
	Ufc1	ubiquitin-fold modifier conjugating enzyme 1(Ufc1)
	Uba5	ubiquitin-like modifier activating enzyme 5(Uba5)
	Eif2s3	eukaryotic translation initiation factor 2 subunit gamma(Eif2s3)
	Eif3c	eukaryotic translation initiation factor 3, subunit C(Eif3c)
	Eif3d	eukaryotic translation initiation factor 3, subunit D(Eif3d)
	Eif3g	eukaryotic translation initiation factor 3, subunit G(Eif3g)
	Eif3h	eukaryotic translation initiation factor 3, subunit H(Eif3h)
	Eif3i	eukaryotic translation initiation factor 3, subunit I(Eif3i)
23	Eif3m	eukaryotic translation initiation factor 3, subunit M(Eif3m)
	Rps2	ribosomal protein S2(Rps2)
	Eif2s3	eukaryotic translation initiation factor 2 subunit gamma(Eif2s3)
	Eif3c	eukaryotic translation initiation factor 3, subunit C(Eif3c)
	Eif3d	eukaryotic translation initiation factor 3, subunit D(Eif3d)
	Eif3g	eukaryotic translation initiation factor 3, subunit G(Eif3g)
	Eif3h	eukaryotic translation initiation factor 3, subunit H(Eif3h)
	Eif3i	eukaryotic translation initiation factor 3, subunit I(Eif3i)
	Eif3l	eukaryotic translation initiation factor 3, subunit L(Eif3l)
24	Eif4a1	eukaryotic translation initiation factor 4A1(Eif4a1)
	Eif4e2	eukaryotic translation initiation factor 4E family member 2(Eif4e2)
	Eif6	eukaryotic translation initiation factor 6(Eif6)
	Pgl3	6-phosphogluconolactonase(Pgl3)
	B3gat3	beta-1,3-glucuronyltransferase 3(B3gat3)
	Fuca2	fucosidase, alpha-L-2-, plasma(Fuca2)
	Gapdh	glyceraldehyde-3-phosphate dehydrogenase(Gapdh)
	Glo1	glyoxalase 1(Glo1)
	Hexb	hexosaminidase subunit beta(Hexb)
25	Hagh	hydroxyacyl glutathione hydrolase(Hagh)
	Mdh1	malate dehydrogenase 1(Mdh1)
	Mdh2	malate dehydrogenase 2(Mdh2)
	Mlec	malectin(Mlec)
	Pgk1	phosphoglycerate kinase 1(Pgk1)
	Slc3a1	solute carrier family 3 member 1(Slc3a1)
	Slc3a2	solute carrier family 3 member 2(Slc3a2)
	Taldo1	transaldolase 1(Taldo1)
	Xbp1	X-box binding protein 1(Xbp1)
	Cdk4	cyclin-dependent kinase 4(Cdk4)
	Hsp90ab1	heat shock protein 90 alpha family class B member 1(Hsp90ab1)
	Hspa5	heat shock protein family A member 5(Hspa5)
	Rpl3	ribosomal protein L3(Rpl3)
	Rps2	ribosomal protein S2(Rps2)
	Rplp0	ribosomal protein lateral stalk subunit P0(Rplp0)

	Mx2	MX dynamin like GTPase 2(Mx2)			
	B2m	beta-2 microglobulin(B2m)	26	Dnajb9	DnaI heat shock protein family (Hsp40) member B9(Dnajb9)
	Bst2	bone marrow stromal cell antigen 2(Bst2)		Edem2	ER degradation enhancing alpha-mannosidase like protein 2(Edem2)
	Irgm	immunity-related GTPase M(Irgm)		Faf2	Fas associated factor family member 2(Faf2)
	Rsad2	radical S-adenosyl methionine domain containing 2(Rsad2)		Stt3b	STT3B, catalytic subunit of the oligosaccharyltransferase complex(Stt3b)
	Serping1	serpin family G member 1(Serping1)		Psmc1	proteasome 26S subunit, ATPase 1(Psmc1)
				Psmc2	proteasome 26S subunit, ATPase 2(Psmc2)
10	Tapbp	TAP binding protein(Tapbp)		Psmc4	proteasome 26S subunit, ATPase 4(Psmc4)
	B2m	beta-2 microglobulin(B2m)		Psmc5	proteasome 26S subunit, ATPase 5(Psmc5)
	Tap1	transporter 1, ATP binding cassette subfamily B member(Tap1)		Selenos	selenoprotein S(Selenos)
11	Ifitm3	interferon induced transmembrane protein 3(ifitm3)	27	Atp1b1	ATPase Na+/K+ transporting subunit beta 1(Atp1b1)
	Stat1	signal transducer and activator of transcription 1(Stat1)		Calr	calreticulin(Calr)
	Stat2	signal transducer and activator of transcription 2(Stat2)		Cct2	chaperonin containing TCP1 subunit 2(Cct2)
12	Isg15	ISG15 ubiquitin-like modifier(Isg15)		Cct4	chaperonin containing TCP1 subunit 4(Cct4)
	Mx2	MX dynamin like GTPase 2(Mx2)		Cct5	chaperonin containing TCP1 subunit 5(Cct5)
	Stat1	signal transducer and activator of transcription 1(Stat1)		Cct7	chaperonin containing TCP1 subunit 7(Cct7)
13	Bst2	bone marrow stromal cell antigen 2(Bst2)		Clu	clusterin(Clu)
	Ifitm3	interferon induced transmembrane protein 3(ifitm3)		Gapdh	glyceraldehyde-3-phosphate dehydrogenase(Gapdh)
	Stat1	signal transducer and activator of transcription 1(Stat1)		Hspa1a	heat shock 70kD protein 1A(Hspa1a)
14,15, 16	Cxcl10	C-X-C motif chemokine ligand 10(Cxcl10)		Lamp2	lysosomal-associated membrane protein 2(Lamp2)
	Cxcl11	C-X-C motif chemokine ligand 11(Cxcl11)		Ppib	peptidylprolyl isomerase B(Ppib)
	Cxcl9	C-X-C motif chemokine ligand 9(Cxcl9)		Phb	prohibitin(Phb)
17	Cxcl10	C-X-C motif chemokine ligand 10(Cxcl10)			
	Cxcl11	C-X-C motif chemokine ligand 11(Cxcl11)			
	Cxcl9	C-X-C motif chemokine ligand 9(Cxcl9)			
	Jun	Jun proto-oncogene, AP-1 transcription factor subunit(Jun)			
	Nfkbia	NFKB inhibitor alpha(Nfkbia)			
	Il18bp	interleukin 18 binding protein(Il18bp)			
	Stat1	signal transducer and activator of transcription 1(Stat1)			
18	Cxcl10	C-X-C motif chemokine ligand 10(Cxcl10)			
	Cxcl11	C-X-C motif chemokine ligand 11(Cxcl11)			
	Cxcl9	C-X-C motif chemokine ligand 9(Cxcl9)			
	Nfkbia	NFKB inhibitor alpha(Nfkbia)			
	S100a11	S100 calcium binding protein A11(S100a11)			
	Irf1	interferon regulatory factor 1(Irf1)			

piC11 vs PBS11	logFC	LR	pAdj	KRV11 vs piC11	logFC	LR	pAdj	KRV11 vs PBS11	logFC	LR	pAdj	KRV11 vs KRV9	logFC	LR	pAdj	KRV11 vs KRV7	logFC	LR	pAdj	KRV9 vs KRV7	logFC	LR	pAdj
B2m	0.904984	760.3292	3.65E-164	Ubd	4.24049	1003.019	1.06E-217	Ubd	4.324745	1183.889	4.78E-257	Ubd	3.874671	481.645	2.41E-104	Ubd	4.203075	697.9095	1.48E-151	Ubd	1.502975	667.3607	5.43E-144
RT1-A2	0.785026	212.8124	6.12E-46	LOC100910973	4.036382	1600.183	0	LOC100910973	4.127803	582.8575	1.20E-126	LOC100910973	3.821927	867.0444	4.55E-188	LOC100911498	3.821927	1127.636	1.11E-244	Ppy	1.407689	266.5403	2.47E-57
RT1-CE10	0.738665	206.3089	1.56E-44	LOC100911498	3.810893	6891.491	0	LOC100911498	3.746911	4282.96	0	lgs15	2.940509	941.9527	5.43E-204	Gadd45g	0.879116	479.2492	2.90E-103	Gadd45g	0.879116	479.2492	2.90E-103
Rn45s	0.658654	565.2471	4.09E-122	lgs15	3.107135	1219.751	1.36E-264	B2m	3.130296	3665.661	0	Cxcl10	2.850517	362.8205	1.21E-78	Peg3	0.656422	595.6796	1.58E-102	Peg3	0.656422	595.6796	1.58E-102
Rn18s	0.643638	363.8204	1.11E-78	Cxcl10	2.736201	377.733	3.38E-82	Cxcl10	2.885444	351.5494	1.43E-76	MGC108823	2.036585	765.5957	8.92E-166	Klf9	0.618581	145.9477	2.35E-31	Klf9	0.618581	145.9477	2.35E-31
My6l	0.63782	254.8084	4.73E-55	MGC108823	2.256953	1247.913	1.06E-270	Psmb9	2.293743	1044.222	9.73E-227	Tap1	1.839865	753.3167	3.28E-164	Nr4a4	0.600516	191.493	3.99E-41	Nr4a4	0.600516	191.493	3.99E-41
Mgp	0.618624	33.91783	1.92E-07	B2m	2.184873	3545.265	0	RT1-CE5	2.246864	1167.771	1.50E-253	RT1-CE5	1.631308	898.6984	1.18E-194	My6l	0.596705	274.203	5.79E-59	My6l	0.596705	274.203	5.79E-59
Cyb2a2	0.592291	206.6606	1.33E-44	Psmb8	2.16592	1436.993	1.00665632179669e-3	Psmb8	2.241141	1000.537	2.67E-217	Psmb8	1.54059	747.6467	6.34E-162	Psmb8	1.871441	1013.768	5.28E-220	LOC100910973	0.586502	50.64793	3.41E-11
Rpl13a	0.570339	371.2403	6.85E-158	RT1-CE5	2.160009	1623.74	0	MGC108823	2.236627	824.7297	4.05E-179	Irf1	1.505406	525.5724	8.31E-114	Stat1	1.779585	845.5445	1.52E-183	Psm8a8b	0.546455	104.2589	4.01E-30
Rpl21	0.561271	477.1462	4.40E-103	Tap1	2.138359	1179.394	7.28E-256	Tap1	2.005234	686.9496	3.08E-149	Zbed5	1.429279	2217.312	3.11E-4	Psmb9	1.701901	857.5295	3.97E-186	Prrc2c	0.54443	350.0938	2.20E-75
Rps17	0.554789	468.7265	2.68E-101	Ifi27	2.055559	716.8578	1.11E-155	Zbed5	1.939016	2550.786	0	Irf1	1.667467	643.8536	7.52E-140	Hspa4	0.52316	128.373	1.41E-27	Hspa4	0.52316	128.373	1.41E-27
Rack1	0.549296	371.5652	2.38E-80	Psmb9	1.954471	1199.322	3.62E-260	lgs15	1.934084	316.5149	5.38E-69	Irgm	1.526659	614.2305	2.01E-133	LOC100362110	0.508126	191.8996	3.32E-41	LOC100362110	0.508126	191.8996	3.32E-41
Rps18	0.534411	860.3212	1.33E-185	Zbed5	1.804979	3336.89	0	RT1-A1	1.775085	753.44	1.14E-163	Psmb10	1.50665	671.2821	8.77E-146	Pcl0	0.506206	89.6192	3.32E-19	Pcl0	0.506206	89.6192	3.32E-19
Rpl12	0.525518	547.669	2.47E-118	Stat1	1.763476	928.9159	1.30E-201	Rn18s	1.68861	3326.313	0	Gbp2	1.402271	376.2655	1.52E-81	Ash1l	0.505024	136.5347	2.45E-29	Ash1l	0.505024	136.5347	2.45E-29
Rps15	0.522392	604.9687	1.27E-130	RT1-A1	1.703209	1020.14	2.10E-221	Irf1	1.687288	518.1827	1.24E-112	Psmb9	1.381069	590.6978	7.03E-128	LOC498592	0.499731	165.1998	1.71E-35	LOC498592	0.499731	165.1998	1.71E-35
Rps27a	0.507465	936.9224	1.18E-201	RT1-S3	1.685932	854.0229	2.27E-185	Ifi27	1.652339	324.4793	1.02E-70	Psmb10	1.332299	568.0917	5.48E-123	Pnn	0.499404	191.9134	3.32E-41	Pnn	0.499404	191.9134	3.32E-41
Rpl32	0.505078	892.3591	1.92E-192	Irf1	1.648403	724.2843	2.74E-157	Stat1	1.629586	545.8101	1.28E-118	Ifi47	1.324377	487.3616	1.40E-105	Serping1	1.338737	668.8413	2.94E-145	Stat1bp1	0.494929	146.5051	1.80E-31
Rps10	0.494344	684.0545	1.02E-147	Irgm	1.578938	755.1739	5.88E-164	Psmb10	1.584307	548.6828	3.13E-119	Tapbp	1.291283	195.2279	1.95E-42	Atp8b1	0.494706	109.3914	1.51E-23	Atp8b1	0.494706	109.3914	1.51E-23
Rpl16	0.49432	881.9068	1.16E-125	Hspa1a	1.459335	705.4197	3.37E-153	Hspa1a	1.528549	628.1904	1.75E-136	Rtp4	1.259719	505.5742	1.70E-109	Srrm2	0.494572	204.9968	1.16E-52	Srrm2	0.494572	204.9968	1.16E-52
Ubc	0.485825	125.0227	5.60E-27	Ifi47	1.435187	655.2934	2.32E-142	Rn45s	1.528411	3743.106	0	RT1-A1	1.173534	437.2572	9.36E-95	Ubc	0.489889	182.9435	2.67E-39	Ubc	0.489889	182.9435	2.67E-39
Rpl18a	0.485723	549.224	1.19E-118	Gbp2	1.430115	515.6664	4.42E-112	Irgm	1.512017	467.3779	1.24E-101	Tapbp	1.119872	374.0582	4.52E-81	Golgpa	0.489063	115.1476	9.07E-25	Golgpa	0.489063	115.1476	9.07E-25
Rpl11	0.481753	783.7238	3.98E-169	Serping1	1.384571	796.0983	4.04E-173	Ifi47	1.490126	496.8925	5.00E-108	RT1-S3	1.115849	346.9028	3.46E-75	Nsd1	0.48855	107.1484	4.49E-23	Nsd1	0.48855	107.1484	4.49E-23
Rpl17	0.474498	577.0129	1.19E-124	Psmb10	1.321611	606.4109	9.30E-132	RT1-A2	1.446544	353.9533	4.77E-116	Pheta2	1.10611	479.8405	5.73E-104	Smrca5	0.48678	103.9203	2.20E-22	Smrca5	0.48678	103.9203	2.20E-22
Rps25	0.474096	416.0825	5.57E-90	Fosb	1.317593	562.1583	3.66E-122	Gbp2	1.382206	330.7724	4.44E-72	Oasl2	1.104785	351.1644	4.14E-76	Cish	0.485955	101.7878	6.15E-22	Cish	0.485955	101.7878	6.15E-22
Rps11	0.469336	382.0553	1.32E-82	Ube2l6	1.315296	642.5113	1.37E-139	RT1-CE10	1.360836	501.7284	4.51E-109	Irf7	1.08055	311.9192	1.26E-67	Actb	0.483308	182.9373	2.67E-39	Actb	0.483308	182.9373	2.67E-39
Rpl19	0.468611	897.4405	2.26E-193	Rtp4	1.302537	634.1811	8.76E-138	Psm1	1.340417	1021.262	9.05E-222	Ube2l6	1.061421	398.677	2.09E-86	Ddx46	0.47764	96.50498	8.17E-21	Ddx46	0.47764	96.50498	8.17E-21
Rn9	0.464983	604.5902	1.44E-130	Jun	1.286457	525.9205	2.62E-114	Il18bp	1.26721	361.5296	9.78E-79	Mx2	1.038603	266.9088	6.17E-58	Srsf3	0.458502	162.2032	7.49E-35	Srsf3	0.458502	162.2032	7.49E-35
Rn28s	0.453445	86.32168	1.22E-18	Tapbp	1.2494	498.1201	2.75E-108	Ifitm3	1.250747	344.6154	5.25E-34	Parp9	1.034129	424.4448	5.66E-92	Cltc	0.455541	119.0205	1.37E-25	Cltc	0.455541	119.0205	1.37E-25
Fdps	0.451186	98.42879	2.94E-21	Manf	1.231431	678.4698	2.35E-147	Tmem140	1.24873	427.9564	4.25E-93	Serping1	1.03107	424.4448	5.66E-92	Ppp4r2	0.454125	88.83607	3.39E-19	Ppp4r2	0.454125	88.83607	3.39E-19
Rps7	0.449394	578.6	5.70E-125	Fos	1.23125	446.86	3.50E-97	Rn28s	1.172863	614.064	2.04E-133	Cd74	1.030687	124.5661	3.52E-27	Eif3c	0.45358	118.2181	2.03E-25	Eif3c	0.45358	118.2181	2.03E-25
Rps15a	0.447777	701.7553	1.59E-151	Pheta2	1.212015	629.6989	8.18E-137	Wnt4	1.159767	878.0993	1.05E-190	Prrs1	1.019421	180.261	3.32E-39	Map1b	0.453139	205.9775	3.07E-44	Map1b	0.453139	205.9775	3.07E-44
Rpl28	0.445566	486.357	4.72E-105	Bst2	1.2013	465.1299	3.95E-101	Tapbp	1.151512	294.6653	2.89E-64	Ifitm1	0.984748	228.9286	1.01E-49	Acin1	0.449936	85.09622	2.09E-18	Acin1	0.449936	85.09622	2.09E-18
Atp5pd	0.444719	273.8039	3.78E-59	Ifitm3	1.177257	152.0089	2.33E-33	Oasl2	1.149678	307.5694	4.66E-67	Lgals3bp	0.941501	260.4235	1.58E-56	Igtp	0.448597	102.5559	4.25E-22	Igtp	0.448597	102.5559	4.25E-22
Rpl26	0.441516	625.9336	4.09E-135	Irf7	1.162993	419.9875	2.36E-91	Bst2	1.142871	296.5926	1.10E-64	Igtp	0.934218	268.2724	3.19E-58	Rn18s	0.447252	372.0073	4.24E-22	Rn18s	0.447252	372.0073	4.24E-22
Rp15	0.44107	293.6835	1.89E-63	Mx2	1.162376	402.4517	1.52E-87	Hspa1a	1.132056	254.9273	1.16E-55	Psm1	0.929518	750.9415	1.26E-162	Supt16h	0.443802	83.64232	4.16E-18	Supt16h	0.443802	83.64232	4.16E-18
Rpl31	0.439411	249.6438	6.22E-54	Tmem140	1.16157	547.3605	5.95E-119	Pkm	1.129479	401.9025	1.87E-87	Irf7	0.927287	271.6283	6.04E-59	Taok3	0.442669	95.44586	1.37E-20	Taok3	0.442669	95.44586	1.37E-20
Rps23	0.437529	605.0497	1.27E-130	Parp9	1.158889	489.472	2.06E-106	Psm2	1.125725	446.6319	3.80E-97	Ppy	0.918317	298.1338	1.15E-64	Sy5f	0.441116	73.22722	6.47E-16	Sy5f	0.441116	73.22722	6.47E-16
Hmt1	0.436225	369.2648	7.37E-80	Oasl2	1.156473	452.1001	2.58E-98	Rpl5	1.117289	2052.338	0	Pdgfra	0.915198	282.8832	2.32E-61	Golg1b	0.437969	83.8783	3.75E-18	Golg1b	0.437969	83.8783	3.75E-18
Rps5	0.43551	443.6513	6.54E-96	Prrs1	1.147418	271.1343	3.99E-59	Rpl20	1.108872	368.0102	3.98E-80	Tmem140	0.906938	332.6832	4.11E-72	Vegfa	0.437046	78.66746	4.86E-17	Vegfa	0.437046	78.66746	4.86E-17
Cox5b	0.434329	232.1764	3.82E-50	Cd74	1.142028	211.9199	2.64E-46	Fosb	1.102999	229.3337	3.85E-50	Manf	0.901651	363.6855	7.98E-79	Actb	0.433614	455.0656	4.95E-98	Actb	0.433614	455.0656	4.95E-98
Rps13	0.432738	483.828	1.61E-104	Ctrb1	1.124897	250.3936	1.21E-54	Il18bp	1.095185	274.5575	6.53E-60	Parp14	0.883502	232.228	2.01E-50	Ncl	0.431816	121.0926	4.95E-26	Ncl	0.431816	121.0926	4.95E-26
Cish	0.432638	80.63879	2.00E-17	Il18bp	1.10608	401.8383	2.05E-87	Cd74	1.094763	141.0175	4.26E-31	Neur13	0.867456	197.9223	5.19E-43	Chgb	0.430309	211.309	2.26E-45	Chgb	0.430309	211.309	2.26E-45
Wnt4	0.432128	122.6914	1.78E-26	Psm2	1.069616	595.3093	2.34E-129	Pheta2															

KRV11 vs pIC11

Term	Count	%	P-Value	Benjamini
defense response	9	17.6	2.80E-13	1.00E-10
cellular response to interferon-beta	7	13.7	2.70E-10	5.00E-08
defense response to virus	9	17.6	9.20E-10	1.10E-07
response to virus	7	13.7	5.30E-08	4.90E-06
positive regulation of T cell mediated cytotoxicity	5	9.8	1.30E-07	9.60E-06
negative regulation of viral genome replication	5	9.8	9.00E-07	5.60E-05
response to mechanical stimulus	6	11.8	6.00E-06	3.20E-04
antigen processing and presentation of endogenous peptide antigen via MHC class I	3	5.9	9.20E-05	4.20E-03
response to cytokine	5	9.8	1.10E-04	4.50E-03
response to type I interferon	3	5.9	1.30E-04	4.70E-03

KRV11 vs PBS11

Term	Count	%	P-Value	Benjamini
defense response	8	15.7	2.60E-11	1.10E-08
cellular response to interferon-beta	7	13.7	2.70E-10	5.70E-08
defense response to virus	8	15.7	2.90E-08	4.10E-06
response to virus	6	11.8	1.90E-06	2.00E-04
positive regulation of T cell mediated cytotoxicity	4	7.8	1.40E-05	1.20E-03
immune response	7	13.7	5.10E-05	3.50E-03
negative regulation of viral genome replication	4	7.8	5.70E-05	3.50E-03
antigen processing and presentation of endogenous peptide antigen via MHC class I	3	5.9	9.20E-05	4.70E-03
antigen processing and presentation of peptide antigen via MHC class I	4	7.8	9.90E-05	4.70E-03
response to interferon-beta	3	5.9	2.20E-04	9.40E-03

KRV11 vs KRV9

Term	Count	%	P-Value	Benjamini
cellular response to interferon-beta	6	20	2.20E-09	5.30E-07
defense response	6	20	1.20E-08	1.40E-06
defense response to virus	6	20	1.60E-06	1.30E-04
response to type I interferon	3	10	5.10E-05	3.10E-03
response to virus	4	13.3	3.00E-04	1.40E-02
immune response	5	16.7	8.10E-04	3.20E-02
negative regulation of viral genome replication	3	10	1.00E-03	3.60E-02
antigen processing and presentation of peptide antigen via MHC class I	3	10	1.50E-03	4.50E-02
antigen processing and presentation	3	10	1.80E-03	4.90E-02

KRV11 vs KRV7

Term	Count	%	P-Value	Benjamini
cellular response to interferon-beta	7	17.9	5.20E-11	1.50E-08
defense response	7	17.9	3.90E-10	5.60E-08
defense response to virus	6	15.4	4.50E-06	4.30E-04
antigen processing and presentation of endogenous peptide antigen via MHC class I	3	7.7	5.40E-05	3.90E-03
response to type I interferon	3	7.7	7.60E-05	4.40E-03
innate immune response	6	15.4	1.40E-04	6.60E-03
response to virus	4	10.3	5.30E-04	2.20E-02
positive regulation of T cell mediated cytotoxicity	3	7.7	6.10E-04	2.20E-02
negative regulation of viral genome replication	3	7.7	1.50E-03	4.90E-02
immune response	5	12.8	1.70E-03	4.90E-02

hot vs cool KRV11	logFC	LR	pAdj	hot vs nonKRV	logFC	LR	pAdj	cool KRV11 vs nonKRV	logFC	LR	pAdj		pathway#
Ubd	6.094292	2350.674	0	Ubd	6.266835	3156.826	0	LOC100911498	3.055557	3318.039	0		
LOC100910973	5.475996	5398.222	0	LOC100910973	5.974383	7263.087	0	Zbed5	1.581131	1846.192	0		1
Cxcl10	4.676421	945.0993	9.50E-205	Cxcl10	4.796699	1270.047	1.63E-275	RT1-CE5	1.504661	639.8495	9.72E-139		2
Isg15	4.593109	3038.746	0	Isg15	4.496636	3373.042	0	Hspa1a	1.185735	330.1981	1.36E-71		3
MGC108823	3.312746	2125.696	0	B2m	3.92581	8325.024	0	Prss1	1.180457	197.4035	7.22E-43		4
Psmb8	3.067099	3398.986	0	MGC108823	3.881385	3078.351	0	Fosb	1.157797	314.9913	2.54E-68		5
Tap1	3.015577	2104.041	0	Psmb8	3.751076	4910.66	0	Ctrb1	1.144534	173.5195	1.02E-37		6
Gbp2	3.001255	1048.346	3.60E-227	Tap1	3.706893	3150.252	0	Pheta2	1.078685	354.5342	7.15E-77		7
B2m	2.900845	4001.763	0	Psmb9	3.617726	4035.71	0	Rn18s	1.072704	1623.98	0		8
Psmb9	2.843581	2660.44	0	Ifi27	3.314815	1073.411	6.59E-233	RT1-A1	1.06527	327.3239	5.54E-71		9
Psmb10	2.842355	2443.942	0	RT1-CE5	3.198025	1977.065	0	Fos	1.055117	251.2984	1.46E-54		10
Ifitm3	2.768597	505.8716	1.48E-109	Stat1	3.087734	2265.735	0	B2m	1.024965	830.1355	7.26E-180		11
Ifi2712b	2.606944	2513.268	0	Gbp2	3.049735	1257.662	7.74E-273	Manf	0.97428	307.466	1.08E-66		
Ifi27	2.571703	542.3175	1.86E-117	LOC100911498	3.038023	1946.594	0	Amy2a3	0.919503	98.46114	1.66E-21		
RT1-S3	2.567496	1417.102	3.73E-307	Irf1	3.033034	1495.67	0	Pkm	0.901875	268.2163	3.36E-58		
Stat1	2.558504	1564.393	0	Irgm	2.956714	1717.832	0	Rn45s	0.899522	1553.766	0		1
Mx2	2.517837	921.8759	1.01E-199	Psmb10	2.928873	2753.348	0	Cope	0.847712	229.8206	6.60E-50		2
Irgm	2.490701	1169.985	1.65E-253	Ifi47	2.896964	1645.099	0	Eef1a1	0.833654	2248.009	0		3
Cd74	2.486455	398.7888	2.57E-86	RT1-S3	2.883803	1841.126	0	Wnt4	0.77744	444.241	2.61E-96		4
Ifi47	2.485946	1139.326	7.13E-247	Ifitm3	2.772075	580.6907	5.45E-126	Psmb9	0.774145	185.07	3.36E-40		5
Irf7	2.364748	810.0644	1.68E-175	Serping1	2.751093	2268.889	0	Mrps28	0.75852	170.0085	5.81E-37		6
Irf1	2.359651	831.2088	4.41E-180	RT1-A1	2.682389	1276.911	5.44E-277	Snhg11	0.750132	631.4815	6.16E-137		7
Oasl2	2.34436	848.4338	8.59E-184	Cd74	2.602073	546.1838	1.64E-118	Tmau1ap	0.747402	170.1945	5.33E-37		9
Rtp4	2.321597	901.3993	2.74E-195	Rtp4	2.601037	1242.786	1.28E-269	Ifi27	0.743112	99.91283	8.18E-22		8
Tapbp	2.271124	1081.448	2.42E-234	Mx2	2.569709	1051.638	3.38E-228	Rpl5	0.741526	965.8979	2.86E-209		12
Ifitm1	2.239239	565.5205	1.76E-122	Tapbp	2.566322	1422.292	0.00E-000	Cela2a	0.738906	98.46287	1.66E-21		10
Serping1	2.224129	1502.339	0	Oasl2	2.556602	1128.031	9.87E-245	Eef2	0.733332	719.2159	7.33E-156		
RGD1309362	2.208519	708.8869	1.41E-153	Ifi18bp	2.434637	1176.538	3.00E-255	Tmem106c	0.723902	165.7705	4.81E-36		
Ifi18bp	2.092108	839.4009	7.59E-182	Ifitm1	2.386623	755.2484	6.82E-164	Rn28s	0.706989	252.2529	9.19E-55		
Neur13	2.090512	436.9678	1.39E-94	Bst2	2.385662	1106.299	5.08E-240	Tap1	0.691315	148.0886	3.21E-32		12
Bst2	2.072874	801.273	1.32E-173	Irf7	2.343711	857.6813	4.11E-186	LOC108348108	0.68555	129.6435	2.99E-28		
Psme2	1.986828	1398.967	3.04E-303	RGD1309362	2.278584	870.9159	5.56E-189	Psmb8	0.683978	156.2392	5.52E-34		
Usp18	1.983299	588.497	1.86E-127	Psme2	2.253594	1817.703	0	Pnma8b	0.675074	158.3927	1.90E-34		
Parp14	1.952839	591.206	5.07E-128	Ube216	2.219275	1083.129	5.22E-235	Agt	0.675044	99.31632	1.10E-21		12
Ifit3	1.902274	426.3387	2.69E-92	Parp14	2.174047	784.99	2.42E-170	Irf1	0.673383	134.5496	2.64E-29		13
Parp9	1.900169	590.4179	7.31E-128	Psme1	2.169622	2914.408	0	Hspa1b	0.671735	111.3574	2.68E-24		14
Lgals3bp	1.894679	555.4016	2.72E-120	Tmem140	2.157376	1056.133	3.66E-229	Igfbp4	0.659768	285.8584	5.04E-62		15
Igtp	1.871835	532.8301	2.11E-115	Parp9	2.151588	809.1897	1.38E-175	Ckb	0.646067	87.1794	4.49E-19		
Phf11	1.862082	508.2687	4.54E-110	Igtp	2.145762	760.7065	4.52E-165	Podxl2	0.643693	166.5074	3.36E-36		
Pyy	1.846528	156.2866	9.39E-34	Neur13	2.145731	551.616	1.10E-119	Rpl3	0.639767	820.3033	9.61E-178		
Ube216	1.803713	711.9941	3.08E-154	Ifi2712b	2.139247	1916.697	0	Hspe1	0.633081	166.2189	3.86E-36		
RT1-A2	1.773798	694.1187	2.23E-150	Lgals3bp	2.084667	716.2701	1.93E-155	Elf3f	0.629077	271.3892	6.97E-59		
Isg20	1.772148	774.6636	7.77E-168	Isg20	2.084515	1100.003	1.15E-238	Matb	0.626536	352.8228	1.67E-76		
RT1-CE10	1.753621	728.1642	9.69E-158	RT1-A2	1.981772	902.9268	6.38E-196	Jun	0.623704	94.68162	1.08E-20		
Psme1	1.734521	1885.102	0	Usp18	1.933776	594.3389	6.05E-129	Slc30a8	0.618513	121.0499	2.17E-26		
Pla2g16	1.718154	376.3973	1.82E-81	Ifit3	1.917057	503.1457	3.49E-109	Rpl7a	0.609052	864.5863	2.44E-187		
Stat2	1.696038	434.6089	4.44E-94	RT1-CE10	1.892297	890.0372	3.96E-193	Tmem109	0.593799	137.446	6.36E-30		

Term	Count	%	P-Value	Benjamini
positive regulation of T cell mediated cytotoxicity	4	8.2	1.00E-05	4.70E-03
response to unfolded protein	4	8.2	2.40E-05	5.60E-03
response to mechanical stimulus	5	10.2	9.10E-05	1.40E-02
protein refolding	3	6.1	2.30E-04	2.60E-02

alpha cell DE pathways		
pathway#	Symbol	description
1	Gbp2	guanylate binding protein 2(Gbp2)
	Irgm	immunity-related GTPase M(Irgm)
	Ifi47	interferon gamma inducible protein 47(Ifi47)
	Irf1	interferon regulatory factor 1(Irf1)
	Stat1	signal transducer and activator of transcription 1(Stat1)
	MGC10882	similar to interferon-inducible GTPase(MGC108823)
	RGD13093	similar to interferon-inducible GTPase(RGD1309362)
2	Cd74	CD74 molecule(Cd74)
	Tapbp	TAP binding protein(Tapbp)
	Irgm	immunity-related GTPase M(Irgm)
	Ifi47	interferon gamma inducible protein 47(Ifi47)
	MGC10882	similar to interferon-inducible GTPase(MGC108823)
	RGD13093	similar to interferon-inducible GTPase(RGD1309362)
	Tap1	transporter 1, ATP binding cassette subfamily 8 member(Tap1)
3	Oasl2	2'-5' oligoadenylate synthetase-like 2(Oasl2)
	Cxcl10	C-X-C motif chemokine ligand 10(Cxcl10)
	Isg15	ISG15 ubiquitin-like modifier(Isg15)
	Mx2	MX dynamin like GTPase 2(Mx2)
	Bst2	bone marrow stromal cell antigen 2(Bst2)
	Ifitm1	interferon induced transmembrane protein 1(Ifitm1)
	Ifitm3	interferon induced transmembrane protein 3(Ifitm3)
4	Oasl2	2'-5' oligoadenylate synthetase-like 2(Oasl2)
	Cxcl10	C-X-C motif chemokine ligand 10(Cxcl10)
	Mx2	MX dynamin like GTPase 2(Mx2)
	Bst2	bone marrow stromal cell antigen 2(Bst2)
	Ifitm1	interferon induced transmembrane protein 1(Ifitm1)
	Ifitm3	interferon induced transmembrane protein 3(Ifitm3)
	Irf1	interferon regulatory factor 1(Irf1)
5	Isg15	ISG15 ubiquitin-like modifier(Isg15)
	Mx2	MX dynamin like GTPase 2(Mx2)
	Bst2	bone marrow stromal cell antigen 2(Bst2)
	Ifitm3	interferon induced transmembrane protein 3(Ifitm3)
6	Tapbp	TAP binding protein(Tapbp)
	B2m	beta-2 microglobulin(B2m)
	Tap1	transporter 1, ATP binding cassette subfamily 8 member(Tap1)
7	Isg15	ISG15 ubiquitin-like modifier(Isg15)
	Mx2	MX dynamin like GTPase 2(Mx2)
	Stat1	signal transducer and activator of transcription 1(Stat1)

pIC11 vs PBS11			KRV11 vs pIC11			KRV11 vs PBS11			KRV11 vs KRV9			KRV11 vs KRV7			KRV9 vs KRV7				
logFC	LR	pAdj	logFC	LR	pAdj	logFC	LR	pAdj	logFC	LR	pAdj	logFC	LR	pAdj	logFC	LR	pAdj		
S100a9	5.171109	38.81082	1.75E-07	Ubd	5.815186	153.6006	1.02E-32	LOC100911498	4.299757	514.5109	3.89E-110	Ubd	5.265069	139.8969	7.89E-29	Ubd	3.26037	50.72769	1.27E-05
S100a8	4.534577	34.43843	1.37E-06	Cxcl11	4.556525	135.9356	6.10E-29	LOC100911498	3.700675	66.9501	7.05E-14	Cxcl11	4.93843	111.1358	1.31E-23	Cxcl9	2.984164	30.12267	1.36E-09
Camp	1.798761	9.994525	0.0381806	Cc10	4.235504	432.0173	1.71E-92	Cc10	2.975389	30.42896	1.73E-06	Cc10	4.115875	125.712	1.15E-26	LOC100911498	2.346655	100.9723	1.07E-19
Gamm	1.713210	15.97074	0.0043392	Cxcl10	4.231373	122.7484	3.97E-26	Cxcl10	2.856277	66.3386	5.88E-14	Fabp4	3.911757	50.8898	7.92E-11	Cxcl10	2.351556	24.99188	0.000144
F13a1	1.575963	14.13083	0.0076785	Cxcl9	3.887065	121.9799	5.49E-26	Cc10	2.663756	87.3197	2.13E-18	Ass1	3.813628	123.4623	3.21E-26	Ass1	1.611776	11.42025	0.041865
Ncp	1.418624	11.499	0.021687	Ass1	3.707249	101.1493	1.45E-21	Ly6c	2.556578	49.38361	2.03E-10	Cxcl9	3.684645	124.2941	2.17E-26	Fabp5	1.483122	33.31418	0.0002777
Cc16	1.357319	48.79971	2.44E-09	Gbp2	3.649574	188.183	5.38E-40	Gmb	2.27693	28.83741	3.70E-06	Gmb	3.622575	182.4881	8.50E-39	MGC105649	1.390709	30.8171	1.25E-05
LOC685157	1.141242	26.483	3.87E-05	RT1-CE5	3.253025	448.8422	4.95E-96	Gmb	2.363399	15.01944	0.0002722	Igfb1	3.461598	36.32789	8.05E-08	Ass1	1.378775	19.25937	0.0018489
Pglyrp1	1.016073	9.50201	0.0463024	Sod2	3.220003	161.0727	2.62E-34	Fabp5	2.727289	16.1079	0.0012916	Igfb1	2.903943	101.0708	1.81E-21	Cxcl3	1.206522	65.10178	2.05E-12
Gapt	0.962797	14.64783	0.002762	LOC100910973	2.995346	106.3699	3.62E-75	Ubd	1.943894	24.2181	4.22E-05	Sod2	2.708698	124.5539	1.95E-26	Dnasel13	1.158967	19.95212	0.0137318
Alxa5ap	0.943626	24.28683	0.0001046	Pla2g16	2.903350	165.0955	3.87E-35	Gbp2	2.165167	97.07007	1.92E-20	LOC100911498	2.70816	258.5088	5.28E-55	Serpinb6b	1.141627	21.77024	0.0005612
Nkg7	0.897475	9.515373	0.0460591	Ly6c	2.898088	57.38112	2.64E-12	RT1-CE5	3.817116	80.62767	1.15E-26	Gbp2	2.743518	18.84853	0.0002983	Mir147	1.114458	22.73014	0.0003635
Ctsw	0.889494	10.94918	0.0269217	Rpl1	2.85692	17.60828	0.0004391	Rpl1	2.014228	215.8441	7.14E-46	Cc15	2.473518	18.84853	0.0002983	Serpinb9	1.104336	23.85848	0.0002394
Il16	0.886353	10.97358	0.009277	Fabp5	2.847196	104.9359	2.21E-22	Irf1	1.892007	22.29269	0.0001036	Upp1	2.409191	33.56751	3.01E-07	Csrp1	1.012427	22.99717	0.0003218
Tf	0.853151	18.22136	0.0013611	Fabp5	2.824798	14.89571	0.0015664	Serpinb6b	1.925036	41.51631	8.37E-09	Cnn3	1.796088	74.39866	2.15E-15	Hspa1b	0.96835	14.47252	0.0138859
Cf	0.814595	15.42057	0.0042006	Igfb1	2.714316	78.30542	1.03E-16	Ptprcap	1.905855	60.73052	8.54E-13	Ckd1na	1.733865	55.96483	1.45E-11	LOC108348108	0.966551	15.90739	0.0175337
Cd3g	0.810084	11.53821	0.021473	RT1-A1	2.702646	267.8055	5.63E-57	Ifttm1	1.770696	80.18689	6.67E-17	Bcat1	1.726651	73.34959	3.56E-15	Socs1	0.95921	15.48323	0.00912
Coro3a	0.800815	29.8783	9.73E-06	LOC691141	2.587152	121.4212	1.73E-26	Pla2g16	1.741214	10.08012	5.84E-19	Cxcl10	1.999592	44.29333	1.70E-09	Ctse	0.93579	14.29095	0.0307471
Il4r	0.792834	16.94917	0.0033619	Fcgr3a	2.578354	141.6957	3.85E-30	Fcgr3a	1.733947	55.76394	9.50E-12	Acd5	1.701957	38.66426	4.76E-08	Rala	0.934174	22.40175	0.0004241
Tspan8	0.791352	16.65957	0.0025326	C2	2.569664	155.6838	3.82E-33	Socs1	1.733627	57.41004	4.20E-12	Zeb1	1.701267	206.6095	2.97E-43	Sdc4	0.885724	12.13625	0.035482
IFitga45	0.780035	18.37265	0.0012729	Cp1	2.459132	134.2806	1.27E-28	Cp1	1.694971	41.88783	1.06E-08	Mmp12	1.93272	20.7641	0.0001233	Pla2g16	0.873157	15.73975	0.0081356
Rtg5	0.766611	11.34415	0.022997	Irf8	2.449816	69.1714	8.61E-15	Irf8	1.653336	13.09967	0.004738	Igfb1	1.931216	47.85357	3.22E-10	Upp1	0.86973	16.95362	0.0048961
Alfrng1	0.770167	20.04076	0.0006538	Fcgr3a	2.447828	67.35082	1.28E-18	Hck	1.65167	88.42822	1.24E-18	Irfng	1.542227	10.46236	0.0215495	Sept6	0.862472	16.42298	0.0061355
Gpr183	0.698575	10.04322	0.0375148	Mgp	2.409524	17.20826	0.0005345	Ptgnp1	1.637074	81.52365	3.51E-17	RGD1565410	1.523139	38.68541	4.74E-08	Psmc2	0.84653	12.12087	5.79E-05
Ly1	0.687696	11.43648	0.0220613	Nampt	2.36502	104.2712	3.11E-22	Il1b	1.628627	33.8572	3.35E-07	Cdk1na	1.511434	67.82497	5.41E-14	Selenop	0.832099	15.34016	0.0095216
Rin3	0.671649	11.30051	0.0233541	Txn1	2.321778	177.5489	1.01E-37	Col3a1	1.624301	7.878097	0.0042724	RT1-Bb	1.509338	96.76728	3.79E-23	Rnh1	0.825441	25.46381	0.0001179
Lsp1	0.632135	10.50482	0.0317435	Stat1	2.298391	133.8734	1.49E-28	Gadd45b	1.605509	51.26521	8.31E-11	Plac8	1.470131	45.53421	1.97E-09	Plvap	0.823925	12.26119	0.0338874
Fnbp1	0.549558	9.94372	0.0388317	MGC105649	2.291481	86.15863	2.28E-18	Upp1	1.554683	32.34951	6.91E-07	Gadd45b	1.463577	50.8885	1.59E-10	Rab7b	0.822236	13.01811	0.0247863
Gpm3	0.537833	9.397478	0.0482242	Ifi47	2.268261	135.8293	6.27E-29	Sod2	1.357858	50.86039	1.01E-10	Gadd45b	1.867594	65.0891	8.59E-14	Psmb10	0.814879	27.17042	5.79E-05
Alfrngb1b	0.524022	13.88244	0.0084245	RT1-T24-4	2.253092	122.2177	4.97E-26	RT1-Bb	1.446035	83.00794	1.74E-17	Irf1	1.845044	65.12195	8.53E-14	Cck134	0.805701	17.73022	0.0035281
Gmg12	0.509942	10.43112	0.032493	Psmc2	2.252039	197.2881	6.27E-42	Zeb1	1.518832	138.7769	2.89E-29	Irf7	1.840158	79.68549	7.20E-17	Lcp1	0.803225	41.5877	7.63E-08
Gpmg1b	0.495858	12.64988	0.0137235	Anxa3	2.211055	70.66099	4.15E-15	Gpr31	1.504828	58.75484	2.18E-12	Scin	1.416463	14.10734	0.0042318	Pgt1	0.793241	21.52947	0.0006263
Pnp1a7	0.480034	11.05774	0.0257175	Lap3	2.152268	119.5309	1.78E-25	Cd40	1.489992	46.65143	7.32E-10	Timp1	1.414636	29.6107	3.49E-06	Psmb9	0.785288	20.14817	0.0012125
Sp1b	0.467187	12.37984	0.0153017	Acd1	2.150763	49.2355	1.32E-10	Acad10	1.475804	15.57814	0.0016454	Rab20	1.40319	41.17046	1.47E-08	Lap3	0.777604	16.76872	0.0052798
Sna13	0.457164	12.04717	0.0175054	B2m	2.080755	501.9759	2.04E-107	Coro1a	1.467678	138.1436	3.79E-29	Tgm2	1.383748	41.63032	1.20E-08	Acadml	0.764867	13.29119	0.022229
Rn18s	0.455276	13.19261	0.0111349	Psmb8	2.075585	236.8013	2.51E-50	Dnbl1	1.460117	83.7011	1.28E-17	Manf	1.373708	65.59776	1.48E-13	Cd86	0.759947	15.73557	0.0081356
Rps1	0.395608	30.65766	6.77E-06	Psmb9	2.071919	163.9789	6.53E-35	Fbxo27	1.45647	43.11341	4.13E-09	Plek	1.344101	57.75656	1.10E-15	Clec9a	0.75576	13.11829	0.2042091
Alxa12	0.389235	11.63095	0.0260048	Il18bp	2.067909	81.23155	2.55E-17	Il18bp	1.447814	68.38166	2.17E-14	Marcksl1	1.311785	38.75749	4.61E-08	Mphosph10	0.755073	15.33114	0.0095216
Rpl13a	0.373882	24.88911	8.01E-05	Cd40	2.040895	69.70409	6.23E-15	RGD1565410	1.445725	27.1797	8.18E-06	Gpr1	1.278415	80.74317	4.33E-17	Cc15	0.744545	13.93981	0.0173718
Rnd4s	0.362819	10.10660	0.0362166	Upp1	2.017566	46.72239	4.51E-10	Ptgnp1	1.42177	74.67156	1.00E-15	Mx1	1.297804	35.3413	2.29E-07	Thrap3	0.737739	15.30093	0.0095872
Ardc3	0.339657	9.949514	0.038465	RT1-Bb	2.003849	105.7377	1.49E-22	RT1-Bb	1.410757	62.16132	4.32E-13	RT1-CE5	1.293376	167.8747	3.64E-35	Aph1a	0.742046	17.84887	0.0076826
Rpl18a	0.271321	15.79254	0.0036186	Gzmb	1.992548	12.11762	0.0055191	Dnasel13	1.410569	24.45309	2.88E-05	Cd40	1.292998	41.34236	1.36E-08	H2afz	0.724982	20.76488	0.000919
Rpl12	0.253239	10.35359	0.033351	Plek	1.985614	106.5232	1.05E-22	Marcksl1	1.400875	37.8243	4.91E-08	Icam1	1.279471	48.43023	5.12E-10	Ppp4r2	0.722393	13.18319	0.0233781
Rps3	0.233087	10.42368	0.032439	MGC108823	1.980888	83.52031	8.27E-18	Plin2	1.386651	53.51709	2.87E-11	Ifttm3	1.26908	32.65994	8.16E-07	Mpp1	0.720945	15.03305	0.0109171
Rpl14	0.225042	11.41807	0.0222203	Cdk1na	1.969199	53.21213	1.96E-11	Cxcl9	1.380863	19.16039	0.0003297	Ch13l1	1.26851	19.74583	0.0003245	Thumpd3	0.717098	14.50317	0.0138766
Rps10	0.222352	10.78819	0.0284991	Zeb1	1.944927	176.0684	1.83E-37	Cc10	1.371928	31.38003	1.07E-06	Dhs58	1.252862	42.24643	9.05E-09	Serpinb9	0.7100923	54.95845	1.16E-11
Rpl6	0.219771	13.44019	0.0095969	Cnn3	1.929858	63.50234	1.36E-13	Trk1	1.366538	36.99527	7.32E-08	Cd3g	1.243439	39.36367	3.49E-08	Cd3g	1.695567	28.0256	4.22E-06
Rpl26	0.20777	9.731384	0.0460591	Rn18s	1.91352	149.4453	1.28E-31	Il18bp	1.323736	149.4453	1.28E-31	Gpr1	1.689399	42.03142	2.09E-07	Cc15	1.690916	18.82727	0.001615
Rps2	0.24901	11.72345	0.0201156	Tapb	1.906644	107.0527	8.33E-23	Lst1	1.352562	35.1602	1.79E-07	Prdx5	1.216923	63.3728	4.39E-13	Fchs2d	0.697959	11.41182	0.0441865
Cox41	0.29048	9.862304	0.0401584	LOC360231	1.894894	84.80795	4.36E-18	Gbp5	1.348808	33.3031	5.02E-07	Cnp							

Tmsb10	-0.47815	13.90211	0.0083691	Parp14	1.550651	48.32365	2.07E-10	Ubd	1.130554	8.877568	0.0294796	Tabb4b	0.979588	27.65634	8.47E-06	Gbp5	1.327276	28.00659	4.24E-06	Psmel1	0.553997	30.92549	1.23E-05
Ndufa13	-0.48282	15.44449	0.0041876	Manf	1.545326	58.25977	1.77E-12	Aif1	1.114518	17.23622	5.32E-15	Tspo	0.976077	48.70831	4.56E-10	Ybrf1	1.322001	113.236	4.64E-24	Fucal	0.551751	17.46894	0.0039966
Adox1	-0.48806	25.32257	6.55E-05	Parp9	1.542394	49.92478	9.59E-11	Col6a2	1.112996	14.22354	0.0029281	Fdps	0.976048	28.47003	5.85E-06	Tnfrsf14	1.320767	36.07673	9.05E-08	Cyc1	0.5513	11.4991	0.00430657
Atp5pf	-0.48809	13.66542	0.0091728	Cxcl13	1.542513	12.35397	0.0004674	Arhgap45	1.111742	40.50569	1.32E-08	Rybl5a1	0.966081	11.58522	0.0130017	Timp1	1.318883	20.92421	0.0001153	Ptgeb5	0.551	13.4028	0.0017321
Pom1e	-0.49396	10.36256	0.0032723	Icam1	1.518063	45.65447	7.43E-10	Sell	1.110358	28.51898	4.27E-06	Eif4a1	0.965918	117.2741	2.27E-24	Plecl3	1.317023	31.77855	4.35E-07	Fam49b	0.550261	16.97837	0.0049897
Ifi2	-0.49525	9.372087	0.0487023	Cd79b	1.515703	17.65981	0.0004286	Alpk3	1.107126	56.85967	5.50E-12	Ctla1	0.964608	17.91265	1.49E-16	Ifitm1	1.312653	48.82258	8.45E-10	Rbm3	0.54857	18.92715	0.0020831
Pc	-0.49564	13.73256	0.0089175	Sema4d	1.503348	43.98652	1.67E-09	Ccl6	1.106694	20.53221	0.0001757	Cd9	0.961781	15.09468	0.0002728	Pirc1	1.294684	39.92781	1.43E-08	Bat2	0.548225	16.5815	0.0057035
Sestd1	-0.49584	13.73256	0.0089175	RT1-A2	1.485883	133.9084	1.49E-28	Oaf	1.105661	40.28278	1.16E-08	Timm8a1	0.958881	28.00025	7.16E-06	Birc3	1.291491	34.8954	1.60E-07	RT1-Ddb1	0.543302	22.04164	0.0000495
Ndufa5	-0.49837	9.57188	0.0448435	Tuba3a	1.478936	98.14649	6.31E-21	Rac2	1.100207	53.67669	2.67E-11	Mx2	0.950654	20.99724	0.0001829	RGD1565410	1.289603	22.87794	4.63E-05	Slc25a5	0.540133	17.12668	0.0046238
Ndufa1	-0.50145	10.33504	0.0335662	RT1-S3	1.478875	57.0666	3.04E-12	Bwz2	1.099447	30.24158	1.89E-06	Wars	0.948543	28.30882	6.33E-06	Pgk1	1.289574	81.33881	3.25E-17	Ly86	0.536068	15.02162	0.0109171
Hsp90ab1	-0.50175	34.26279	1.39E-06	Ifi27	1.478251	85.64978	2.92E-18	Arpc1b	1.094263	169.2002	9.28E-36	Ldha	0.944097	55.9927	1.45E-11	Cndp2	1.28842	47.92062	3.15E-10	Calr	0.526256	19.08369	0.0019619
Colccl2	-0.50217	10.62116	0.0302974	Hspa1a	1.462052	26.2651	7.80E-06	Ccrp1	1.087927	35.15327	1.79E-07	Ferla	0.943513	13.72131	0.0050601	Prdx5	1.272327	55.07951	1.09E-11	Uhrf1	0.525399	11.23158	0.0047442
Atp5fmg	-0.50421	14.9652	0.0052058	Pfkfb	1.458522	45.1974	9.22E-10	MGC105567	1.087789	28.99726	3.14E-05	Fam241a	0.942887	18.11087	1.28E-17	Fam241a	1.265334	37.81757	3.96E-08	RT1-Ra	0.519734	24.82848	0.0001502
Tmem10	-0.50545	10.27094	0.0302809	Atg3	1.455301	59.11676	1.16E-12	Srgn	1.083997	28.99726	3.49E-06	Fam241a	0.932233	27.19115	1.05E-05	Itih4	1.261853	44.55303	1.50E-09	Rtfr1	0.516952	25.1183	0.0001378
Vcp	-0.50642	10.34182	0.03352	Cd38	1.453907	42.86436	2.84E-09	Ifi3	1.080434	13.63613	0.0037706	Psmb8	0.921168	79.21509	2.12E-16	Acadm	1.26112	35.72848	1.07E-07	Ctss	0.509593	26.83503	6.54E-05
Rexo2	-0.50751	9.628578	0.044105	Ctsc	1.452597	162.2856	1.48E-34	Rhoh	1.073864	28.07656	5.29E-06	Tmau1ap	0.919382	27.04361	1.12E-05	Ccd134	1.259755	37.59759	4.40E-08	Akr1a1	0.502839	18.55851	0.0023668
Psm7	-0.50996	16.68193	0.0025156	Il1b	1.450637	26.15577	8.22E-06	Cd86	1.072265	24.09374	3.30E-05	Chst13	0.918585	19.59653	0.0003445	Irfd8	1.253231	27.45228	5.40E-08	Bcl2a1	0.500957	14.53204	0.0137844
Lamp2	-0.51256	9.414496	0.0479857	Slamf8	1.434399	42.63069	3.19E-09	Cnp	1.069994	23.64464	4.03E-05	Plaz16	0.916577	29.32209	4.02E-06	Nr1h3	1.252967	27.03372	6.72E-06	Psmb2	0.499824	11.10566	0.0488334
Bat2	-0.51304	9.833906	0.0406967	Snx20	1.433018	45.59823	7.58E-10	Eif4a1	1.069922	121.9312	1.12E-25	Bcl2a1	0.908682	54.78628	2.60E-11	Basp1	1.243542	48.95011	1.96E-10	Dpp7	0.484873	11.10412	0.0488134
RT1-A2	-0.51865	13.58744	0.0094556	Cyts	1.426149	82.63021	1.27E-17	Altp3a2	1.068261	60.10246	1.09E-05	Psmb10	0.906428	10.42364	2.05E-12	Slc39a1	1.232857	39.43047	1.81E-08	LOC100910973	0.483176	13.04046	0.0246957
Cox7b	-0.5187	11.51675	0.0216614	Rab20	1.416957	30.21981	1.18E-06	Gltp	1.063204	28.65729	4.03E-06	Ctsc	0.904887	104.3775	1.10E-21	Ran	1.229549	74.61145	8.44E-16	Rhoa	0.477747	11.58612	0.0414431
Fxyd2	-0.51891	10.4022	0.0083691	Arf15a	1.414099	18.14239	2.26E-08	Arf15a	1.058249	26.74188	9.93E-06	Pirn2	0.904116	44.25204	3.55E-09	Tnfr1	1.225828	17.75422	2.98E-12	Eftsa	0.477321	14.02023	0.016915
Car2	-0.5193	11.05403	0.0257715	Tnfrsf14	1.409777	35.46302	1.26E-07	Eif4af	1.052757	35.96284	3.19E-07	Tubb6	0.903135	24.05848	4.54E-05	Nlcar1	1.217136	31.90316	6.83E-05	Atpsf1b	0.474354	15.4132	0.0092873
Ndufa2	-0.51983	10.07786	0.037141	Cxcl7	1.398924	24.95415	3.05E-08	Tomm40	1.052656	30.51247	1.67E-06	Eif6	0.893945	39.71245	2.95E-08	Caln1	1.21671	140.3965	9.40E-30	Poma1	0.471747	24.46732	0.0001774
Galk2	-0.52002	9.458615	0.0473155	Tp1	1.3941	57.23311	2.81E-12	Nr1h3	1.05164	19.13984	0.0003325	Nudt9	0.89723	26.03768	1.79E-05	Cd27a	1.21163	26.81563	7.46E-06	Sh3bg3	0.4668	19.14487	0.0019359
Btg1	-0.52095	11.5607	0.0212745	Nlkb2	1.392233	37.4846	3.81E-08	Picalm	1.046705	31.70294	9.21E-07	MGC108823	0.896418	13.55599	1.37E-06	Adra4	1.210683	17.52258	2.05E-16	Prrc2c	0.466586	14.2075	0.0156702
Ppia	-0.52381	26.01527	4.81E-05	Srgn	1.376297	40.71398	8.07E-09	LOC24906	1.046154	9.192234	0.0258053	Cd63	0.895885	35.57595	2.06E-07	Eif5a	1.209947	119.466	2.29E-25	Cf1	0.463863	25.71099	0.0001086
Pax8	-0.52459	10.63254	0.0302974	Ctsc	1.361465	29.01286	2.10E-06	Nkfb2	1.043404	101.8264	2.02E-21	Nkfb2	0.891588	22.89935	7.70E-05	Snx20	1.208515	38.9722	2.27E-25	Ctsc	0.46327	24.01943	0.0002151
Sept8	-0.5263	10.44922	0.0323228	Ifng	1.358143	10.11513	0.013927	Lap3	1.023493	43.033	4.27E-09	MGC105649	0.889735	19.39438	0.0003783	Il1rn	1.205618	25.67359	1.25E-05	Ostf1	0.460063	11.14186	0.0488134
Sep7	-0.52767	10.5028	0.0317435	Ly6al	1.355747	24.79311	1.55E-05	Fgl2	1.020975	32.02784	8.00E-07	Ripk3	0.887311	23.65805	5.46E-05	Psmb2	1.197258	69.7192	9.59E-15	Cd74	0.458061	22.13906	0.0004783
Mmp7	-0.53027	9.636212	0.0410405	Cd27a	1.354897	32.87598	3.43E-07	Pirn2	0.88659	29.03903	4.58E-06	Ripk1	0.88659	29.03903	4.58E-06	Igh1	1.194375	31.24886	8.95E-07	Calb1	0.457505	16.90468	0.0052776
Ndufa7	-0.53147	10.12751	0.0363947	Ube2f6	1.354752	40.80089	7.75E-09	Ube2f6	1.011536	30.46018	1.71E-06	Nlcar1	0.885586	16.99762	0.011493	MGC108823	1.192964	40.8106	9.38E-09	Ckb	0.456205	16.99907	0.004887
Gabarrp2	-0.53299	9.577622	0.0484835	Fam241a	1.352533	38.55565	2.30E-08	Ripk3	1.008588	24.67457	2.63E-05	Sell	0.883685	17.45115	0.0009489	Slc1	1.192626	53.38107	2.48E-11	Tmsb4x	0.451206	41.83829	7.13E-08
Arpc1a	-0.53332	9.41219	0.0479576	Dnae1l3	1.348302	18.31641	0.0003179	Apo13	0.997084	19.18257	0.0003275	Hif1a1	0.875933	23.9488	4.75E-05	Hdx58	1.187973	30.56712	1.25E-06	Aif1	0.441309	23.44305	0.0002643
Sumo1	-0.53365	10.59855	0.0305767	Caln1	1.348147	166.1024	2.42E-35	Cadm1	0.994451	23.24965	4.84E-05	Slc2a1	0.879327	22.92097	7.64E-05	Psm7	1.178578	113.5798	3.99E-24	Arhgid5a	0.440261	17.73091	0.0189595
Btf3	-0.53484	17.03838	0.0022201	Lgals3bp	1.342987	46.31951	5.44E-10	Dapk3	0.869671	38.58272	4.88E-08	Myf6	0.869671	38.58272	4.88E-08	Il1b	1.173485	19.34451	0.0002733	B2m	0.438383	35.51243	1.33E-06
Hnrrpk	-0.53492	10.64994	0.0301013	Gpr13	1.341405	35.53625	9.76E-08	Sbno2	0.990213	24.5484	3.08E-05	Myf6b	0.862128	110.2612	6.76E-23	Actp2c	1.167298	124.8284	1.72E-05	Actr3	0.435419	12.67535	0.0280416
Whamm	-0.53591	10.20672	0.0351435	Pgk1	1.340077	76.90148	2.03E-16	Tnfrsf14	0.898398	42.04464	6.72E-09	Atp6vd1	0.859728	28.85047	9.55E-18	Psm7a	1.166469	24.98176	1.72E-05	Psm7a	0.429014	12.93519	0.0254802
Cox6a1	-0.53693	14.44161	0.0067539	Cndp2	1.339337	45.35689	8.53E-10	Tnfrsf14	0.98716	22.63949	4.64E-05	Psmc10	0.858673	30.31352	5.20E-06	Ptprc1	1.164519	23.6647	3.23E-05	Ccnel	0.426376	11.32281	0.0458727
Rhoa	-0.53787	11.20611	0.0245065	Arp23a	1.335287	44.49455	9.16E-09	Picalm	0.980731	44.49455	2.07E-09	Ptprc1	1.164407	20.0254	3.54E-03	Hsp90ab1	1.164407	20.0254	3.54E-03	Myh12	0.426423	13.33257	0.0221271
Emc1	-0.53829	9.990775	0.0381806	Kcnna4	1.330655	36.03897	7.61E-08	Cnsp4	0.979954	38.48396	3.56E-08	Cnsp4	0.853641	21.83808	0.0001252	Eno1	1.154784	52.00227	4.74E-11	Coro1a	0.413964	11.13466	0.0488134
Gnb2	-0.53856	11.50737	0.021687	Mbd2	1.330055	46.38413	5.29E-10	Nr2a1	0.978674	26.88266	9.30E-06	Mpr28	0.852674	24.53724	3.66E-05	Rpo2	1.15465	99.20324	4.42E-21	Rpo2	0.411862	42.52914	5.34E-08
Cybb	-0.53921	11.44673	0.0220349	Piln2	1.329361	38.27408	2.62E-08	Pouz2f	0.977559	24.05128	3.36E-05	Trex1	0.850016	24.30553	4.05E-05	Commnd9	1.149885	47.50716	3.82E-10	Lias	0.410097	12.12848	0.0

Der1	-0.61788	9.58723	0.0447431	Nub1	1.193987	33.14569	3.03E-07	Bcl3	0.89155	27.07917	8.46E-06	Babam1	0.762857	18.53106	0.0005691	Dapk3	1.032577	39.6733	1.61E-08	Ifi27	-0.47448	11.90157	0.0389606
Atp5f1b	-0.61972	18.69747	0.001094	Taf9	1.193442	37.8339	2.16E-12	Ptprc	0.890559	50.7994	1.04E-10	RGD1311188	0.758324	11.79086	0.0011938	Prrtm1	1.03235	45.20359	1.10E-09	Rps21	-0.50782	41.09866	9.25E-08
Prdx1	-0.62127	18.19678	0.0013703	Stat2	1.192583	33.9381	2.08E-07	Phf11	0.889899	26.91807	9.16E-06		0.758217	11.15732	0.0156946	Ptge3	1.031127	50.99266	7.54E-11	Rpl37a	-0.5269	59.3157	2.57E-11
Mdh2	-0.62388	12.75018	0.00132598	Kars	1.191016	36.4283	6.34E-08	Tmau1ap	0.881468	20.55852	0.0001737	Pkpk	0.757265	18.1975	0.0006689	Ak2	1.029598	32.81909	1.48E-05	Rps29	-0.5322	73.89011	4.75E-14
Rps27i	-0.62411	17.01079	0.0021283	Dhvl	1.188839	49.3895	1.23E-10	Ragg6f6	0.880524	10.51631	0.0002829	Asg8t2	0.756699	18.20964	0.0006641	Cnp	1.028273	22.04604	6.79E-05	Rps27	-0.54695	54.79254	1.93E-10
Elob	-0.62454	21.87674	0.0002859	Hclt1	1.188104	51.14443	5.38E-11	Calp1	0.880466	19.12102	0.000335	Calm1	0.756651	69.16667	2.81E-14	Dxd9	1.026002	25.8119	1.38E-05	Covt1	-0.58741	11.20807	0.0478018
Ndufb4	-0.62525	15.24392	0.0004564	Rala	1.183125	31.54317	6.39E-07	Cd82	0.878018	21.25692	0.0001265	Parp9	0.75527	19.62744	0.00034	Acs1	1.021089	22.11314	6.63E-05	Mrp152	-0.58916	16.28179	0.0064738
Lamp1	-0.62562	16.01311	0.00032804	Fubp1	1.181431	33.00027	3.23E-07	Tpm1b	0.877845	53.86607	2.45E-11	Atpc1b	0.751921	10.02507	2.67E-21	Pcm1	1.019213	30.73399	1.15E-06	Sec61g	-0.59974	41.48384	0.0431887
Psm2a	-0.62648	13.21614	0.011035	Arid5	1.180914	33.23881	2.91E-07	Eif2s3	0.876956	24.16479	3.20E-05	Kdelr2	0.751741	19.3523	0.0003856	Parp14	1.019211	28.08975	4.11E-06	Rps28	-0.62566	57.89803	4.54E-11
NKkb2	-0.62795	9.884523	0.0398507	Ezf5a	1.179867	29.82455	1.43E-06	Ifi35	0.870054	24.28292	3.07E-05	Psm2f	0.750624	61.95996	8.81E-13	Mphosph10	1.018557	23.7802	3.08E-05	Pax8	-0.6379	13.30323	0.022229
Cd30l0f	-0.62844	9.643356	0.044105	Tubb6	1.178956	29.73583	1.49E-06	Namp1	0.865812	20.93931	0.0001454	Csrp1	0.749205	20.40957	0.000239	Capp	1.015485	21.66915	8.13E-05	Sfn4	-0.65946	18.16007	0.0028492
Pxdcl1	-0.62864	10.32403	0.0336128	Pkm	1.177162	34.08656	1.94E-07	Myl12a	0.865763	53.06705	3.54E-11	Cd83	0.748782	14.78577	0.003127	Mpr28	1.015177	27.10703	6.49E-06	Amy2a3	-0.80495	11.83374	0.0391318
Msa1	-0.62877	11.14486	0.0251154	Ptgm6	1.175903	45.09318	9.68E-10	Ifi5	0.858682	21.88084	9.28E-05	Mrl147	0.748731	13.55513	0.0053869	Psmc3	1.013709	47.44447	3.91E-10	H7	-0.81915	12.6884	0.028031
Ube2v2	-0.62917	11.68749	0.0203707	Rac1	1.175073	59.69887	8.79E-13	Slcp4d4	0.858576	18.74449	0.0003962	Lgm1	0.746581	19.92515	0.0003901	Etr	1.012176	28.62044	3.18E-06	Klk1b3	-1.13036	16.74443	0.0052903
Atp6v0c	-0.62983	27.92026	2.18E-05	Ctct5	1.174443	73.36319	1.15E-15	Lyfi1	0.858485	17.01413	0.0008488	Anxa4	0.746313	28.89553	4.85E-06	Tub1a1	1.011878	36.2239	8.46E-08	S100a6	-1.13164	13.45475	0.0214155
Selenof	-0.63112	11.11746	0.0251663	Phf11f	1.17367	22.53106	4.45E-05	Piezot1	0.857528	20.14748	0.0002105	Lmnb1	0.744125	15.70058	0.0002771	Lmna	1.01115	25.00214	1.71E-05	Ifi271b	-1.42408	35.70387	1.26E-06
Slk	-0.63534	9.420301	0.0479536	Casp1	1.167765	32.64474	3.80E-07	Cc54	0.856175	48.76497	2.73E-10	Cd99	0.741741	29.02717	0.0450861	Vcp	1.011078	55.81555	7.65E-12	Ins2	-1.58924	54.65335	1.93E-08
Hadha	-0.63553	10.24827	0.0345482	Got2	1.167651	38.75174	2.12E-08	Tifa	0.854968	21.08591	0.0001372	Cyba	0.740806	81.10521	9.36E-17	Slamf8	1.010804	24.63373	2.03E-05	Ins1	-1.61282	46.51461	9.51E-09
Tax1bp1	-0.63957	13.24214	0.0109608	Itgal	1.16516	38.59127	2.27E-08	Parp14	0.853744	20.06789	0.0002176	Ran	0.737394	36.0556	1.63E-07	Cyb561a3	1.008888	10.88666	0.0114414	Sst	-2.86922	28.15432	3.79E-05
Syp	-0.64087	10.92757	0.0270987	Uqcrrf1	1.164311	61.60327	3.44E-13	Hgd3s	0.850933	15.52899	0.0016768	Prrs1	0.736811	10.93811	0.0172536	Idl1	1.008355	20.38587	0.0001479				
Snx10	-0.64156	9.867506	0.0401302	Wqars	1.162808	27.03049	5.45E-06	Slc11a1	0.848995	13.40859	0.0041544	Dram1	0.736599	14.96666	0.0028729	Hclt1	1.00459	44.13493	1.84E-09				
RT1-A1	-0.64288	10.45006	0.0428205	Basp	1.161661	36.58808	5.65E-08	Nkhib	0.848502	18.15517	9.85E-13	Snrp	0.734955	16.94858	0.0011723	Nme2	1.004197	69.38027	1.12E-14				
Lchtr	-0.64352	11.6054	0.0208719	Psm2b	1.158684	47.80887	2.64E-10	Tpm2	0.847876	13.39021	0.0041776	Vim	0.734892	16.95091	0.0011773	Psm5	0.990754	43.19377	9.15E-09				
CDK89574	-0.64382	12.39945	0.0252303	Eif4e2	1.158062	34.2797	1.79E-07	Mrt0a	0.847654	21.30174	0.0001242	Bcl11a	0.733543	11.48953	0.0135316	Cfl1	0.998667	136.1007	7.36E-29				
Bcl2a1	-0.64415	15.71552	0.0037348	Tubb4b	1.158503	30.23978	1.17E-06	Parp15	0.846223	32.71451	5.82E-07	MGC105567	0.730798	13.2574	0.0061325	Calhm6	0.998578	26.07046	1.06E-05				
mrp19	-0.64441	9.884287	0.0398507	Atp5f1b	1.156431	92.93419	8.00E-20	Amp32e	0.844779	18.68505	0.0004078	Mag3	0.730489	25.41254	2.41E-05	Kdm	0.997781	14.27032	0.002463				
Ptma	-0.6457	37.36718	3.54E-07	Rtp4	1.155973	24.20701	2.05E-05	CD72	0.844259	17.24506	0.0007716	Bax	0.730289	31.99202	1.12E-06	Apol3	0.996717	18.28635	0.0003859				
Wash3	-0.64652	10.49567	0.0317907	Mcrip2	1.153463	30.11947	1.23E-06	Tagap	0.844234	14.88303	0.0022093	Atap13a2	0.729263	15.82804	0.0019604	Pdlim7	0.994934	25.83049	1.18E-05				
Hsape1	-0.64803	10.10211	0.0172688	Tpm4	1.152429	46.04461	6.20E-10	Ube2d3	0.84391	50.50712	1.19E-10	Eif5a	0.724579	59.06397	3.28E-12	Tbm1b6	0.992321	40.67966	9.98E-09				
Hsp90b1	-0.64883	15.10184	0.0048808	Lmnb1	1.149882	27.88981	3.61E-06	Dnajc7	0.843142	15.37611	0.0017867	Irf8	0.723689	10.63325	0.0196761	Tubb4b	0.991238	23.1712	4.07E-05				
Hspd1	-0.64961	12.87159	0.012594	Myl12a	1.149113	79.7876	6.55E-17	RT1-Da	0.84281	60.40713	9.85E-13	Prfil3b	0.722522	21.89978	0.0001225	Cnrd2	0.990754	23.26339	3.90E-05				
Pdia3	-0.6504	13.83628	0.0085676	Stat3	1.148851	34.25847	1.80E-07	Aifc5	0.842062	13.72191	0.0036338	Vim	0.72029	19.66564	0.0003353	Snrp1	0.998817	27.00695	8.80E-06				
Irgm	-0.65086	10.18043	0.0355228	Ogfr	1.148625	31.07456	7.96E-07	Mtmr14	0.841902	10.07409	0.0005866	Gnb1	0.719249	21.28598	0.0001595	Iftm3	0.987512	16.5001	0.000879				
Psm4a	-0.65122	17.69146	0.001674	Acs1	1.148369	25.14893	9.13E-05	Ptatr	0.841489	19.40637	0.0002971	Lyar	0.715074	15.91672	0.0018796	Itgal	0.986567	32.80022	4.32E-07				
GlT8d1	-0.65272	10.80005	0.0284663	Mvp	1.146961	45.73795	1.31E-05	Ifi30	0.840667	63.00019	2.21E-13	Adprm	0.714913	15.68053	0.0020943	Rnl5	0.983538	27.32245	5.82E-06				
Atp5f1f	-0.65309	22.20377	0.0002545	Mrt0a	1.144954	31.59483	6.24E-07	Wars	0.840117	18.00943	0.0005446	Mdh2	0.713486	32.54032	8.62E-07	MGC105567	0.983152	18.27091	0.0003884				
Hk3	-0.6534	12.28705	0.0158326	Cnp	1.143715	22.14431	5.30E-05	Entpd1	0.839576	17.5019	0.0006879	Dtx3l	0.711149	16.61368	0.0013659	Eif3c	0.982102	47.90076	3.16E-10				
Litaf	-0.65383	9.403216	0.048186	Jp1t1	1.143069	68.90024	9.79E-15	Alkhh3	0.83945	19.59362	0.0002744	Gbp5	0.708276	10.03567	0.0252259	Ppp1r14b	0.981105	44.80222	1.33E-09				
Ubn1	-0.65406	9.810612	0.0411283	Ac02	1.141854	33.19745	2.96E-07	Mpr28	0.839091	19.54695	0.0002805	Sept6	0.707453	15.31285	0.0024795	Calr	0.980291	74.8652	7.52E-16				
Bcl5	-0.65451	16.74845	0.0024609	Phyhd1	1.138966	25.5161	1.10E-05	Thsm2t2	0.838467	25.14853	0.0008007	Taf12	0.70645	25.35409	0.0001007	Prp12	0.976903	25.88669	1.15E-05				
Atp5mc2	-0.65549	28.20449	1.95E-05	Stx4	1.137607	32.56095	3.95E-07	Gcgt	0.837842	16.6636	0.0010117	Arid5a	0.703508	12.9327	0.0070505	Cd86	0.97684	20.06446	0.0001722				
Ywhaz	-0.65686	13.51524	0.0097281	Pheta2	1.134739	29.83935	1.42E-06	Cl1qb	0.837385	34.00683	3.13E-07	Lyf6	0.702305	23.69011	5.39E-05	Arhgd1a	0.97488	79.98211	6.28E-17				
Smim26	-0.65702	10.32483	0.0336128	Nmi	1.134403	30.96502	8.37E-07	Raly	0.837236	32.70897	5.82E-07	Med28	0.70214	17.19364	0.0010617	Eif6	0.974702	38.10491	3.45E-08				
Sept2	-0.65878	11.50153	0.021687	Fam49b	1.133741	57.77584	2.21E-12	Napsa	0.837161	31.90616	8.44E-07	Kars	0.700561	19.30986	0.0003907	Psmb3	0.970927	66.36347	4.64E-14				
Dhx58	-0.65887	11.11989	0.0251663	Ansp32b	1.13157	54.50111	1.06E-11	RGD1311188	0.834867	12.48285	0.0062311	Tubb2b	0.700119	8.97955	0.0388536	Mdh2	0.970869	45.52858	9.67E-10				
Cenpw	-0.66201	11.13169	0.0251154	Vcp	1.131389	62.64179	2.07E-13	Tapb	0.832549	32.90617	5.33E-07	Soc3	0.698886	18.01205	0.0007257	Rftn1	0.969289	25.03946	1.68E-05				
Ten1	-0.																						

Acadl	-0.71064	12.94471	0.0122768	M6pr	1.047426	24.13734	2.11E-05	Rab35	0.780142	15.02007	0.0020722	Map3k2	0.640144	13.98687	0.0044607	Atic	0.905987	18.37638	0.0003707
Mcrip2	-0.71088	14.52625	0.0064842	Csrp1	1.045172	27.05007	5.41E-06	Eif5a	0.778518	62.0586	4.50E-13	Paq5	0.639619	12.06039	0.0105803	Hspd1	0.905174	29.21256	2.37E-06
Pclaf	-0.71108	11.78443	0.0197543	Birc3	1.044831	19.78125	0.0001621	Slc15a4	0.778422	16.93884	0.0008941	LOC498276	0.639252	13.24326	0.0061671	Preld3b	0.904264	25.29695	1.49E-05
Tmed3	-0.71307	11.15784	0.0250184	Acadm	1.042746	22.48149	4.53E-05	Ckb	0.778168	41.5757	8.23E-09	Commnd9	0.638035	20.79756	0.0001997	Cott1	0.903803	51.98274	4.76E-11
LOC360231	-0.71307	10.8969	0.0274809	Gnl1	1.038128	29.05453	2.05E-06	Arhgd1b	0.775983	36.98399	7.31E-08	mrgl2l4	0.637848	16.34617	0.0015352	Mr2	0.901814	16.01622	0.0010005
Pamb10	-0.71398	18.34122	0.001286	Psmc2	1.036468	35.11939	1.18E-07	Tapbp1	0.774811	15.47199	0.0001791	Tcp1	0.637185	21.20717	0.0001651	Eif1ad	0.899823	25.999	1.09E-05
Sgra	-0.71414	12.04285	0.0175054	Ctsc	1.035367	28.06714	3.32E-06	Rbm3	0.773735	49.19601	2.21E-10	LOC500956	0.636947	12.18475	0.0100561	Fcgr3a	0.897564	16.94766	0.0007153
Birc2	-0.71665	11.73101	0.0201156	Lmma	1.035222	25.64036	1.05E-05	Slamf7	0.772812	8.647558	0.0324543	St3gal4	0.635381	13.41015	0.0057245	Tuba1b	0.896997	34.78217	1.69E-07
Mbd2	-0.71679	12.90308	0.0124257	Hspe1	1.034861	38.41233	2.45E-08	Psmb3	0.771935	45.02139	1.61E-09	Psmb6	0.634135	27.45794	9.25E-06	Stat3	0.89603	24.89162	1.80E-05
Pxdn	-0.71739	17.80462	0.0015904	Vcan1	1.034688	19.05214	0.0002375	Tdx2	0.770809	14.6968	0.0023723	Acsc	0.633739	17.11941	0.0010941	Nras	0.895364	20.91571	0.0001156
Alkbh7	-0.72067	12.33922	0.0154921	Sbno2	1.033999	23.44383	2.90E-05	Mtdh	0.770016	27.17007	8.19E-06	C2	0.632539	17.30173	0.0010181	Ncf1	0.895175	23.03091	4.32E-05
Klf6	-0.72084	13.15826	0.0112672	Timp1	1.033865	12.27141	0.0051564	Mir142	0.769145	15.41401	0.0017603	Psmc2	0.632294	20.62368	0.0002165	Uqcr1	0.89469	31.42222	8.23E-07
Klfk1	-0.72195	11.00546	0.0262511	Sifn4	1.033317	24.36957	1.89E-05	Stat3	0.768498	20.2041	0.0002049	Srf3	0.631433	26.53658	1.41E-05	Nek6	0.893129	19.59908	0.0002113
Naa50	-0.72366	12.68008	0.0136304	Hspd1	1.033036	24.08092	1.94E-07	Tox4	0.768402	16.09581	0.0012951	Cope	0.630809	14.94339	0.0028954	Ncl	0.890939	38.32005	3.13E-08
Tmem248	-0.72399	12.0308	0.0175661	Rexo2	1.032526	41.2482	6.31E-09	Psmc12	0.768247	21.04483	0.0001398	Gmfb	0.629981	12.14458	0.0102029	Ube2d3	0.889246	50.84347	7.97E-11
Cox6c	-0.72416	36.91675	4.32E-07	Ccl9	1.030996	7.577566	0.0424249	Tmem37	0.767699	10.65494	0.0140887	Atp5f1a	0.628704	30.7896	2.00E-06	Crlf2	0.888828	24.91462	1.78E-05
Hypk	-0.72513	17.00086	0.0022283	Ola1	1.027813	30.49631	1.04E-06	Mapkapk3	0.767362	13.83831	0.0034406	Piezo1	0.628435	12.75232	0.0076509	Cd38	0.888413	19.54259	0.0002172
Mocs2	-0.72613	12.66729	0.013679	Taldo1	1.026404	68.27172	1.31E-14	Hivep3	0.767213	12.99694	0.0049651	Ube2s	0.628229	17.7443	0.0008245	Sdhb	0.887405	52.08679	4.58E-11
Cox5a	-0.7311	26.99931	3.13E-05	Gars	1.025081	22.85158	3.83E-05	Prrt1	0.766996	27.85237	5.85E-06	Clec4e	0.62779	13.35251	0.0058656	Trnau1ap	0.886346	20.07449	0.0001716
Fam3c	-0.73116	13.51338	0.0097281	Blmh	1.024442	24.93336	1.45E-05	Emc8	0.764539	16.69249	0.0009984	Api1s1	0.627195	15.62025	0.002157	Vdac2	0.88367	69.08419	1.26E-14
Fam162a	-0.73159	11.71117	0.0201843	Pla2g2d	1.024319	13.24424	0.0033448	Cyba	0.763887	14.11583	0.0030491	Smim5	0.626614	9.345464	0.00335108	Pkig	0.882518	19.43189	0.0000285
Rnf130	-0.73689	12.34992	0.0154921	Mcm6	1.022396	19.26269	0.0002066	Ddx39a	0.76284	17.71857	0.0006199	Aida	0.626213	12.04737	0.0106185	Pop4	0.880835	17.44493	0.000565
Scf1	-0.73785	22.20832	0.0002545	Sdhb	1.022188	58.20092	1.81E-12	Rac1	0.7628	34.69463	2.24E-07	lyp2	0.623201	18.75972	0.0005121	Bw2	0.879987	20.00652	0.0001768
Plek	-0.73809	13.91195	0.0083578	Ar1Sc	1.018688	18.02234	0.0003645	Ugcg	0.762519	14.01931	0.0031888	Tmem243	0.622731	12.13367	0.010232	Bw1	0.879791	48.2554	2.69E-10
Taf9	-0.73838	17.79995	0.0015904	Tmbim6	1.018535	38.54738	2.30E-08	Wdr1	0.762435	23.61009	4.09E-05	Ranbp1	0.621577	19.01018	0.0004518	Dtnbp1	0.877763	18.47098	0.0003553
Tkt	-0.74173	20.85597	0.000455	Mpc1	1.018408	36.12573	7.31E-08	Mpeg1	0.761934	32.58852	1.66E-07	Thsm6	0.619134	16.1268	0.0017068	Dhps	0.876017	20.77201	0.0001231
Atp5f1a	-0.74355	21.89503	0.0002859	Apol3	1.018335	15.82322	0.0010181	Rbm25	0.76144	18.1958	0.0005079	Rftn1	0.618769	13.83112	0.0048117	Map2k2	0.872613	34.54938	1.88E-07
Gpi	-0.74574	19.5992	0.0007649	Grrn	1.01821	44.46026	1.32E-09	Cd74	0.761059	64.42794	1.51E-13	Stat3	0.618699	16.28278	0.0015796	Jak2	0.870361	20.66546	0.0001291
Atp6v1b2	-0.74646	12.85101	0.0126905	Cyc1	1.016865	36.52164	6.09E-08	Fyn	0.760994	15.0266	0.0020713	Zc3hav1	0.618347	11.24068	0.0151009	Dtx3l	0.870118	19.49773	0.0002219
Akap9	-0.74707	12.58291	0.0140344	Fscn1	1.016208	8.142177	0.0333232	Cyba	0.760774	72.17218	3.36E-15	Cyc1	0.617585	19.68994	0.0003331	Ppil1	0.869391	22.6506	5.14E-05
Hfg1	-0.74923	11.78688	0.0197543	Hif1a	1.013639	21.98588	5.73E-05	LOC498276	0.760555	15.56703	0.0016521	Zfand2a	0.617125	11.8253	0.011779	Tpm4	0.869065	30.74977	1.14E-06
Tubb4b	-0.75149	10.72156	0.0292157	Ccdc134	1.013262	22.26249	5.02E-05	MGC95208	0.760367	17.66894	0.0006339	LOC314140	0.615814	12.65791	0.0079888	Psmc5	0.868823	34.70305	1.75E-07
Hikeshi	-0.7532	13.85182	0.0085299	Psmc6	1.011973	26.9635	5.63E-06	Yhdh2	0.760318	18.18454	0.0005079	Eif2b3	0.614137	12.60397	0.0081931	Byl1	0.868076	23.52273	3.45E-05
Aldoa	-0.75395	22.40844	0.0002353	Timm8a1	1.011814	22.52914	4.45E-05	Nudt9	0.759582	15.41808	0.0017596	Hnrnpdl	0.614019	14.98392	0.002872	Tp53	0.86699	19.70088	0.0002015
Ctsl	-0.75406	14.14063	0.0076785	Ten1	1.007441	13.20695	3.24E-05	Rps6ka1	0.757596	16.65548	0.0010128	Eif4a3	0.613092	15.90111	0.0018906	Picalm	0.866873	21.5879	8.38E-05
Hsph1	-0.75471	14.18745	0.0075417	Sf3b2	1.006373	48.08559	2.32E-10	Ubp2	0.757262	15.60506	0.0016279	Bzw2	0.612624	12.33412	0.0093486	Tpm3	0.865176	52.53934	3.69E-11
Slamf8	-0.75483	12.77865	0.013103	Nfkbia	1.005753	25.70335	1.02E-05	Ube2i	0.756642	21.80033	9.65E-05	Klrf1	0.612376	11.11135	0.0159619	Rars	0.865041	19.21046	0.0002527
Nducf2	-0.75644	16.59076	0.0026129	Cap1	1.005069	41.59814	5.32E-09	Rgs10	0.755674	36.96271	7.36E-08	Dbn1	0.612078	21.60171	0.0001401	Etf1	0.864969	22.96995	4.43E-05
Crispld1	-0.7566	10.04509	0.0375148	Psmb3	1.004289	64.31309	9.14E-14	Rab32	0.754274	16.18863	0.0012531	Tbpl1	0.610777	10.87717	0.0177208	Glr3	0.863844	27.80954	4.61E-06
Atp5md	-0.7575	19.13103	0.000915	Sp110	1.003717	30.58326	1.00E-06	Fabp5	0.753513	10.90964	0.0126082	Hck	0.610384	18.73556	0.0005171	Psmc7	0.862879	26.69253	7.91E-06
Sat1	-0.75939	17.87796	0.0015443	Ptma	1.001963	111.5031	8.98E-24	Arpc2	0.752927	63.4069	2.41E-13	Rnf126	0.609519	11.98837	0.0109222	Hck	0.861623	27.81637	4.61E-06
Echd1	-0.75954	13.42903	0.0099924	Serpine2	1.001509	8.439938	0.0293248	Thrap3	0.75253	15.65149	0.001594	Srd1	0.609176	14.38423	0.0037541	Nubp1	0.861565	23.03696	4.32E-05
Cdc48	-0.76137	15.67446	0.0037826	P4hb	1.001269	36.23292	6.96E-08	Kars	0.75222	19.16853	0.0003291	Ifi35	0.609043	14.9844	0.002872	Cd9	0.861245	9.309835	0.0226016
Sgk1	-0.7623	11.13098	0.0251154	Impdh2	1.000944	30.56449	1.01E-06	Trim25	0.751961	13.39537	0.0004776	Psm2	0.608626	11.54204	0.0132197	Eif2s3	0.860288	23.17461	4.07E-05
Ddx58	-0.76498	13.93119	0.0083578	Arpc5	1.000654	53.03219	2.14E-11	Cnbp	0.751939	37.09904	6.98E-08	Taf9	0.608277	26.49847	1.43E-05	Arpc4	0.859238	56.40312	5.72E-12
Vat1	-0.76625	13.14228	0.0113181	Aldoa	1.000099	51.07041	5.56E-11	Eif3c	0.751708	32.13327	7.65E-07	Selenoh	0.608138	22.19099	0.0001084	Ddx39a	0.858845	21.27238	9.76E-05
RT1-S3	-0.76648	14.35549	0.0069827	Gnl2	0.999576	23.07558	3.45E-05	Eif4a	0.751058	22.86423	5.80E-05	Psmc1	0.60801	15.18888	0.0026295	Csnk2b	0.858346	37.40337	4.84E-08

plC11 vs PBS11

Term	Count	%	P-Value	Benjamini
innate immune response	5	55.6	3.20E-06	2.40E-04
chronic inflammatory response	3	33.3	1.40E-05	5.30E-04
neutrophil chemotaxis	3	33.3	3.00E-04	6.60E-03
positive regulation of inflammatory response	3	33.3	3.50E-04	6.60E-03
apoptotic process	4	44.4	4.70E-04	7.00E-03
neutrophil aggregation	2	22.2	9.10E-04	1.10E-02
positive regulation of peptide secretion	2	22.2	2.30E-03	2.40E-02
peptidyl-cysteine S-nitrosylation	2	22.2	2.70E-03	2.60E-02

KRV11 vs plC11 (logFC>2.0) <<<<<<<<<<<<

Term	Count	%	P-Value	Benjamini
response to lipopolysaccharide	10	24.4	3.80E-09	1.50E-06
cellular response to lipopolysaccharide	8	19.5	4.10E-08	8.40E-06
cellular response to interferon-beta	5	12.2	7.50E-07	1.00E-04
cellular response to tumor necrosis factor	6	14.6	7.30E-06	7.30E-04
immune response	7	17.1	1.60E-05	1.30E-03
defense response to virus	5	12.2	1.30E-04	9.00E-03
positive regulation of cAMP metabolic process	3	7.3	1.80E-04	1.10E-02
cellular response to interferon-gamma	4	9.8	2.60E-04	1.30E-02
positive regulation of cAMP-mediated signaling	3	7.3	3.70E-04	1.60E-02
positive regulation of leukocyte chemotaxis	3	7.3	4.20E-04	1.70E-02
response to drug	7	17.1	6.50E-04	2.40E-02
cellular response to interleukin-1	4	9.8	1.10E-03	3.60E-02

KRV11 vs plC11 (logFC>1.0) <<<<<<<<<<<<

Term	Count	%	P-Value	Benjamini
response to lipopolysaccharide	30	9.3	5.90E-15	1.10E-11
cellular response to interferon-beta	13	4	2.60E-13	2.50E-10
cellular response to lipopolysaccharide	20	6.2	6.40E-11	4.00E-08
defense response	12	3.7	3.50E-10	1.60E-07
response to virus	14	4.4	1.10E-09	4.20E-07
immune response	22	6.9	5.90E-09	1.80E-06
response to drug	30	9.3	2.80E-08	7.40E-06
defense response to virus	15	4.7	3.60E-08	8.50E-06
cellular response to interferon-gamma	11	3.4	7.00E-08	1.50E-05
inflammatory response	20	6.2	8.00E-07	1.50E-04
response to organic cyclic compound	19	5.9	9.60E-07	1.60E-04
negative regulation of apoptotic process	26	8.1	2.70E-06	4.00E-04
cellular response to tumor necrosis factor	13	4	2.80E-06	4.00E-04
glycolytic process	8	2.5	3.60E-06	4.80E-04
apoptotic process	21	6.5	4.60E-06	5.80E-04
response to bacterium	8	2.5	5.10E-06	6.00E-04
response to interferon-gamma	7	2.2	7.70E-06	8.40E-04
defense response to bacterium	12	3.7	1.70E-05	1.70E-03
antigen processing and presentation of peptide antigen via MHC cla	7	2.2	2.90E-05	2.80E-03
cellular response to interleukin-1	10	3.1	4.30E-05	3.90E-03
response to cytokine	10	3.1	4.60E-05	3.90E-03
membrane to membrane docking	4	1.2	4.70E-05	3.90E-03

chemokine-mediated signaling pathway	8	2.5	4.80E-05	3.90E-03
leukocyte cell-cell adhesion	6	1.9	5.40E-05	4.20E-03
defense response to protozoan	6	1.9	6.60E-05	4.90E-03
response to glucocorticoid	11	3.4	9.00E-05	6.30E-03
positive regulation of inflammatory response	8	2.5	9.20E-05	6.30E-03
response to nutrient	11	3.4	1.20E-04	7.70E-03
positive regulation of apoptotic process	17	5.3	2.20E-04	1.40E-02
cellular response to organic cyclic compound	10	3.1	2.30E-04	1.40E-02
positive regulation of T cell mediated cytotoxicity	5	1.6	2.60E-04	1.50E-02
aging	16	5	3.30E-04	1.90E-02
innate immune response	14	4.4	5.30E-04	3.00E-02
response to hypoxia	14	4.4	7.30E-04	4.00E-02
response to unfolded protein	5	1.6	7.70E-04	4.10E-02
positive regulation of nitric oxide biosynthetic process	6	1.9	9.50E-04	4.90E-02

KRV11 vs PBS11 (logFC>2.0) <<<<<<<<<<

Term	Count	%	P-Value	Benjamini
immune response	6	46.2	9.50E-08	1.50E-05
response to lipopolysaccharide	4	30.8	3.20E-04	1.90E-02
chemokine-mediated signaling pathway	3	23.1	3.70E-04	1.90E-02

KRV11 vs PBS11 (logFC>1.0) <<<<<<<<<<

Term	Count	%	P-Value	Benjamini
cellular response to interferon-gamma	10	7.9	1.50E-10	1.60E-07
cellular response to lipopolysaccharide	13	10.3	6.50E-10	3.30E-07
immune response	15	11.9	1.40E-09	4.80E-07
response to lipopolysaccharide	14	11.1	2.50E-08	6.20E-06
cellular response to interferon-beta	7	5.6	7.80E-08	1.60E-05
defense response to virus	9	7.1	1.50E-06	2.50E-04
cellular response to tumor necrosis factor	9	7.1	2.00E-06	2.90E-04
inflammatory response	12	9.5	2.90E-06	3.60E-04
positive regulation of T cell proliferation	7	5.6	3.70E-06	4.20E-04
positive regulation of nitric oxide biosynthetic process	6	4.8	9.30E-06	9.30E-04
defense response to protozoan	5	4	2.00E-05	1.90E-03
response to interferon-gamma	5	4	3.20E-05	2.70E-03
positive regulation of tyrosine phosphorylation of STAT protein	3	2.4	1.20E-04	9.10E-03
defense response	5	4	2.40E-04	1.70E-02
proteolysis involved in cellular protein catabolic process	5	4	3.00E-04	2.00E-02
cellular response to interleukin-1	6	4.8	3.90E-04	2.40E-02
response to cytokine	6	4.8	4.10E-04	2.40E-02
chemokine-mediated signaling pathway	5	4	4.60E-04	2.60E-02
response to drug	12	9.5	5.20E-04	2.70E-02
chemotaxis	5	4	7.20E-04	3.60E-02
cellular response to morphine	3	2.4	8.20E-04	3.90E-02
response to toxic substance	6	4.8	9.60E-04	4.20E-02
lipopolysaccharide-mediated signaling pathway	4	3.2	9.80E-04	4.20E-02

KRV11 vs KRV9

Term	Count	%	P-Value	Benjamini
cellular response to tumor necrosis factor	11	12.8	4.10E-10	3.40E-07

response to lipopolysaccharide	13	15.1	4.30E-09	1.60E-06
defense response to virus	10	11.6	5.90E-09	1.60E-06
cellular response to interferon-gamma	8	9.3	1.00E-08	2.10E-06
cellular response to lipopolysaccharide	10	11.6	6.00E-08	9.90E-06
immune response	11	12.8	3.20E-07	4.40E-05
response to virus	7	8.1	1.80E-06	2.20E-04
cellular response to interleukin-1	7	8.1	5.20E-06	5.40E-04
neutrophil chemotaxis	6	7	6.20E-06	5.70E-04
cellular response to interferon-beta	5	5.8	1.80E-05	1.50E-03
positive regulation of nitric oxide biosynthetic process	5	5.8	4.90E-05	3.70E-03
inflammatory response	9	10.5	5.70E-05	3.90E-03
apoptotic process	9	10.5	2.40E-04	1.50E-02
response to glucocorticoid	6	7	3.30E-04	2.00E-02
negative regulation of apoptotic process	10	11.6	5.20E-04	2.80E-02
response to drug	10	11.6	6.00E-04	3.10E-02
glycolytic process	4	4.7	7.20E-04	3.50E-02
positive regulation of apoptotic process	8	9.3	8.20E-04	3.70E-02
positive regulation of isotype switching to IgG isotypes	3	3.5	8.80E-04	3.80E-02

KRV11 vs KRV7

Term	Count	%	P-Value	Benjamini
cellular response to interferon-beta	11	5.3	2.80E-12	3.00E-09
response to lipopolysaccharide	22	10.6	4.30E-12	3.00E-09
cellular response to interferon-gamma	11	5.3	1.10E-09	5.10E-07
defense response	10	4.8	2.20E-09	7.60E-07
response to drug	24	11.6	1.80E-08	5.10E-06
cellular response to lipopolysaccharide	14	6.8	3.90E-08	8.40E-06
immune response	17	8.2	4.20E-08	8.40E-06
defense response to virus	12	5.8	1.60E-07	2.90E-05
glycolytic process	8	3.9	1.90E-07	3.00E-05
cellular response to tumor necrosis factor	12	5.8	2.40E-07	3.40E-05
response to virus	10	4.8	2.80E-07	3.50E-05
response to organic cyclic compound	15	7.2	1.90E-06	2.20E-04
apoptotic process	17	8.2	2.90E-06	3.10E-04
positive regulation of apoptotic process	15	7.2	2.20E-05	2.20E-03
neutrophil chemotaxis	7	3.4	4.00E-05	3.80E-03
negative regulation of apoptotic process	18	8.7	5.60E-05	4.90E-03
cellular response to interleukin-1	8	3.9	1.00E-04	8.30E-03
proteolysis involved in cellular protein catabolic process	6	2.9	2.30E-04	1.80E-02
positive regulation of reactive oxygen species metabolic process	5	2.4	3.90E-04	2.80E-02
chemokine-mediated signaling pathway	6	2.9	3.90E-04	2.80E-02
inflammatory response	12	5.8	4.50E-04	3.00E-02
response to glucocorticoid	8	3.9	6.60E-04	4.20E-02

KRV9 vs KRV7

Term	Count	%	P-Value	Benjamini
immune response	4	28.6	5.30E-04	4.20E-02
response to lipopolysaccharide	4	28.6	6.00E-04	4.20E-02

hot macrophages vs others (excluding endocrine doublets)

	logFC	PValue	pAdj
Cxcl11	6.330078	3.93E-217	2.23E-213
Ube2	5.169174	4.71E-61	1.84E-58
Aasl1	4.554457	1.62E-112	2.29E-109
Sod2	4.184409	1.01E-219	1.14E-215
Cxcl9	3.943512	2.21E-75	1.25E-72
Fabp5	3.894183	3.52E-125	6.65E-122
Ly6c	3.60367	1.60E-45	4.02E-43
Cxcl10	3.484664	5.63E-28	6.57E-26
Gbp2	3.390812	1.29E-151	4.86E-148
Sipi	3.374555	7.32E-27	7.90E-25
MGC105649	3.18895	1.65E-136	4.66E-133
Acod1	3.061094	3.02E-73	1.55E-70
Upp1	2.984382	1.28E-62	5.35E-60
Bcl11	2.850896	1.37E-81	1.11E-78
Cmn3	2.812842	1.37E-68	6.20E-66
Plac8	2.771322	1.23E-44	2.91E-42
LOC691141	2.730426	8.94E-91	9.20E-88
Txn1	2.656273	2.08E-128	4.71E-125
Mir147	2.616492	2.02E-68	8.78E-66
Nampt	2.611311	9.16E-77	5.46E-74
Scin	2.601158	2.92E-31	4.29E-29
Igfb5	2.58289	6.53E-30	8.90E-28
Gbp5	2.525464	1.23E-50	3.86E-48
Plek	2.427725	1.23E-84	1.08E-81
RGD1565410	2.40907	1.11E-36	2.06E-34
Itih3	2.397209	4.97E-32	7.40E-30
Cd40	2.380477	1.27E-49	3.79E-47
Pla2g16	2.345761	2.79E-60	1.05E-57
Pme2	2.334955	9.03E-113	1.46E-109
Il18bp	2.320558	6.56E-56	2.39E-53
Tgm2	2.320077	2.28E-40	4.77E-38
Hk3	2.314096	9.59E-49	2.78E-46
Tnfrsf14	2.234517	4.99E-50	1.53E-47
Marcksl1	2.227515	3.93E-36	7.06E-34
Serpinb9	2.160937	7.39E-38	1.49E-35
Fcnb	2.156108	6.20E-08	1.21E-06
Irf1	2.126712	5.07E-44	1.15E-41
Tap1	2.113468	1.19E-50	3.83E-48
Ly6a	2.078282	6.49E-27	7.06E-25
Socs1	2.055404	2.13E-26	2.21E-24
Itih2	2.037675	3.41E-18	1.99E-16
LOC10091097	2.031352	7.51E-69	3.69E-66
Cdkn1a	1.986299	1.88E-20	1.32E-18
Fbxo27	1.982827	6.03E-31	8.65E-29
Prdx5	1.980678	1.14E-46	3.15E-44
Samhd1	1.979658	1.61E-21	1.20E-19
Gapdh	1.935741	3.38E-91	3.83E-88

Dendritic cells vs others (excluding endocrine doublets)

	logFC	PValue	pAdj
Sipi	6.463253	2.47E-67	4.66E-64
Cd5	3.996022	2.46E-09	3.29E-07
Cxcl9	3.911326	2.63E-42	1.94E-39
Xcr1	3.587878	2.38E-62	3.37E-59
Cd11	3.302788	8.19E-10	4.78E-08
Serpinb6b	3.274696	4.93E-35	2.33E-32
Slamf7	3.20902	9.87E-53	1.12E-49
Cd3	3.183759	5.69E-136	6.44E-132
Itihg	3.144984	4.19E-07	1.48E-05
Dnase1l3	3.02679	2.49E-24	6.57E-22
Ctse	3.01496	2.48E-42	1.94E-39
MGC105649	2.990849	1.70E-57	2.14E-54
Tnni2	2.912168	1.56E-41	1.04E-38
Batf3	2.838481	5.26E-36	2.71E-33
Clec9a	2.810159	1.19E-44	1.12E-41
Csrp1	2.758229	2.63E-42	1.94E-39
Irf8	2.752682	1.39E-36	7.52E-34
Tmsb10	2.719053	1.51E-108	8.52E-105
Ptms	2.686553	1.79E-62	2.90E-59
Rala	2.615949	5.19E-38	2.94E-35
Rab7b	2.604709	9.24E-30	3.73E-27
Klrl1	2.531769	2.02E-22	4.98E-20
Klrc3	2.525424	6.06E-19	1.12E-16
Naa	2.522303	2.02E-23	5.19E-21
Mir147	2.498454	2.14E-29	8.35E-27
Sept6	2.473059	1.08E-30	4.68E-28
Sl00a11	2.439317	2.16E-25	6.62E-23
Aasl	2.345959	1.78E-17	2.72E-15
H2afz	2.345117	3.61E-35	1.78E-32
Fabp5	2.343967	1.17E-19	2.29E-17
Flt3	2.294241	3.72E-25	1.03E-22
Pkb	2.286044	2.54E-21	5.63E-19
Pla2g16	2.271588	9.25E-27	3.08E-24
Ilgae	2.232799	4.19E-18	6.88E-16
Ppt1	2.232304	3.77E-34	1.71E-31
Prr15	2.231213	3.32E-18	5.69E-16
Qprt	2.229133	6.85E-19	1.25E-16
Fdps	2.18464	5.62E-15	6.63E-13
Lims1	2.119539	7.56E-18	1.19E-15
Cdln1a	2.11137	6.20E-12	5.15E-10
Fscn1	2.109145	3.15E-05	0.0007066
Acadm	2.098239	5.58E-20	1.13E-17
Id2	2.07452	1.01E-10	7.02E-09
Samhd1	2.070964	2.47E-12	2.18E-10
Lrrk2	2.051011	1.92E-18	3.39E-16
Basg1	2.044068	2.77E-20	5.70E-18
Ppt2	1.985928	6.01E-18	9.72E-16

B cells vs others (excluding endocrine doublets)

	logFC	PValue	pAdj
Cd79b	4.006305	6.03E-70	6.83E-66
Cyb5b1a3	3.718281	5.68E-61	3.22E-57
Kdr	3.079547	6.31E-24	2.97E-21
Mda1a	3.051228	2.67E-39	3.36E-36
Cnp	2.863131	5.14E-41	7.27E-38
LOC24906	2.71789	1.44E-14	2.40E-12
Hpsa	2.700096	4.07E-29	2.42E-26
Bcl11a	2.631164	4.74E-30	2.98E-27
Fcrla	2.609098	5.29E-15	9.35E-13
Chst13	2.588793	7.47E-28	4.23E-25
Ptprcap	2.552842	1.72E-22	7.48E-20
Gapd	2.480568	2.68E-22	1.08E-19
Rasgrp2	2.453411	4.67E-18	1.29E-15
Rnase6	2.397722	9.48E-21	3.46E-18
Rpia	2.30015	4.66E-20	1.55E-17
Smm5	2.158403	1.20E-17	3.01E-15
Cd3g	2.157245	0.0007892	0.0158137
Plac8	2.152452	8.86E-14	1.39E-11
Tcf4	2.130471	1.14E-16	2.58E-14
Dnajc7	2.129708	1.97E-18	6.02E-16
Ccr6	2.011922	3.63E-09	3.00E-07
Spib	1.960952	2.25E-17	5.53E-15
Pagr5	1.945358	7.34E-18	1.93E-15
Ddit4	1.943754	3.43E-15	6.25E-13
Sept1	1.934975	1.16E-12	1.65E-10
Sic44a2	1.907278	1.76E-13	2.62E-11
Sell	1.902594	9.61E-10	8.91E-08
Cd19	1.895338	2.32E-16	5.05E-14
Sema4d	1.893522	1.89E-12	2.61E-10
Serpinb6b	1.876123	1.25E-09	1.11E-07
Kynu	1.84897	9.36E-16	1.93E-13
Pygm	1.845414	9.03E-19	2.92E-16
Cyfp2	1.83995	2.01E-12	2.74E-10
Abhd17b	1.824354	1.28E-11	1.51E-09
Idi1	1.816166	5.97E-10	5.83E-08
Cr2	1.791167	1.01E-15	2.05E-13
Irf8	1.75766	8.29E-12	1.01E-09
Tubgcp5	1.742165	2.30E-12	3.10E-10
C1qlb	1.727317	1.10E-16	2.54E-14
Stap1	1.707653	3.38E-11	3.83E-09
Flt3	1.686849	7.46E-12	9.18E-10
Fcmr	1.667711	4.17E-07	2.22E-05
Tspan13	1.628807	1.18E-10	1.24E-08
Runx2	1.58553	9.55E-11	1.01E-08
Scl	1.582768	6.71E-13	9.74E-11
Pde6h	1.572119	5.92E-15	1.03E-12
Rhoh	1.569022	9.44E-09	6.90E-07

"hot" macrophages vs others

Term	Count	%	P-Value	Benjamini
response to bacterium	10	24.4	2.20E-10	9.60E-08
defense response to virus	8	19.5	4.80E-08	1.00E-05
cellular response to lipopolysaccharide	8	19.5	9.80E-07	1.40E-04
response to lipopolysaccharide	7	17.1	1.30E-05	1.40E-03
cellular response to tumor necrosis factor	6	14.6	2.20E-05	1.90E-03
cellular response to interferon-beta	4	9.8	6.10E-05	4.40E-03
response to virus	4	9.8	7.50E-04	4.60E-02

dendritic cells vs others

Term	Count	%	P-Value	Benjamini
cellular response to interferon-gamma	5	11.6	9.20E-05	4.90E-02
response to glucocorticoid	5	11.6	1.60E-04	4.90E-02
chemokine-mediated signaling pathway	4	9.3	2.50E-04	4.90E-02
cellular response to lipopolysaccharide	6	14	3.20E-04	4.90E-02
dendritic cell differentiation	3	7	3.90E-04	4.90E-02

B cells vs others

<no significant GO BP pathways. B cells.>

KRV11 vs KRV9	logFC	LR	pAdj
Ifng	3.21975	30.27882	1.82E-05
Gzmb	2.493782	34.29079	2.94E-06
Isg15	2.059351	35.60601	1.77E-06
Cd3e	1.605434	67.59039	4.35E-13
Manf	1.591035	33.77215	3.53E-06
Gadd45b	1.476696	21.86731	0.00073
RGD1564664	1.359607	13.7325	0.020364
Icos	1.329818	16.05192	0.008529
Zbed5	1.292725	44.03518	3.00E-08
Eif4e2	1.260495	26.09623	0.000123
Lgals3	1.254286	21.25352	0.000981
RT1-CE5	1.253842	67.48377	4.35E-13
Zbtb32	1.194934	16.42911	0.007546
Irf7	1.194486	14.06947	0.018427
Mx1	1.176424	14.06784	0.018427
Srm	1.154327	16.41646	0.007546
Cdkn3	1.116007	13.3454	0.023487
Dkc1	1.095918	17.99027	0.004211
Nfkb2	1.07951	16.23331	0.008078
Ifitm1	1.060191	18.04674	0.004165
Sec23b	1.039728	16.35413	0.007687
Tomm34	1.025287	17.322	0.005385
Pkm	1.023783	12.40386	0.032263
Rars	1.020746	14.69872	0.014562
Amd1	1.004559	14.87882	0.014258
Avpi1	0.998317	13.6481	0.020773
Sirt2	0.997397	14.33645	0.016655
Tomm40	0.995946	12.83967	0.028194
Ldhd	0.988363	12.71145	0.028877
Icam1	0.978898	11.57157	0.043683
Snrpa	0.973278	14.33969	0.016655
Rrp9	0.970119	12.47603	0.031286

KRV11 vs KRV7	logFC	LR	pAdj
Gcg	4.155033	28.66635	2.09E-05
Ifng	4.120838	17.61103	0.003287
Gzmb	3.216075	19.96389	0.001226
Ube2c	3.072786	16.55432	0.004949
LOC100911498	2.642377	40.81979	9.77E-08
Ccl4	2.536123	15.29424	0.008642
Fabp5	2.375606	16.60495	0.004922
Lgals1	2.325319	21.79776	0.000529
Lime1	2.117628	31.25239	6.59E-07
Cd3e	2.036207	36.08429	7.83E-07
Ccl5	1.963356	10.71988	0.047913
Surf4	1.91064	16.97317	0.004284
Ctsw	1.896621	37.36904	4.42E-07
Prdx5	1.894085	13.44951	0.019191
Tuba1a	1.886561	15.37396	0.008434
Atf4	1.880613	23.94299	0.000201
Gzmk	1.849123	12.27602	0.027412
Kpna2	1.841258	11.17525	0.042987
Smad4	1.831703	16.55565	0.004949
Fkbp8	1.819717	18.06943	0.002787
Actb	1.817945	96.33907	1.20E-19
Tubb4b	1.817558	11.31793	0.04095
Gng10	1.795157	15.29183	0.008642
Mki67	1.794156	10.88235	0.04579
Lysmd2	1.790935	16.67494	0.004796
Prmt1	1.78884	18.26569	0.002582
RT1-A1	1.774578	29.65208	1.32E-05
Txn2	1.756723	18.72753	0.002134
Eif3c	1.752525	20.6124	0.000917
Cotl1	1.713444	32.61082	3.92E-06
Ccdc124	1.69861	16.42155	0.005199
Sept11	1.693443	12.34087	0.027135

KRV9 vs KRV7	logFC	LR	pAdj
Gcg	4.169671	53.79014	1.99E-09
Ube2c	2.739698	20.22392	0.004105
Lgals1	2.554313	20.57431	0.003662
LOC100911498	2.241283	17.84296	0.011286
Mki67	2.236326	14.92121	0.033397
Gzmk	2.010869	15.94082	0.023365
Zfp3612	1.90477	16.36137	0.020233
Chtop	1.595398	14.51737	0.04004
Myl6l	1.385517	20.5876	0.003662
Sub1	1.375039	18.70567	0.008019
Lck	1.234116	15.11087	0.032462
Ctsw	1.195036	15.44796	0.029155
Ins1	1.150505	17.88426	0.011286
Ins2	1.090399	14.38325	0.041652
Actb	1.024632	25.0805	0.000491
RT1-CE10	0.996699	17.63413	0.011965
Cfl1	0.940601	15.10503	0.032462
Pfn1	0.902441	17.00617	0.015137
Myl6	0.825434	17.05583	0.015137
Rps15a	-0.51222	14.97732	0.033397
Rps26	-0.56179	16.29074	0.020233
Rpl35	-0.61918	23.83829	0.000851
Rpl35al1	-0.66743	25.78231	0.000407
Rpl41	-0.74531	33.74241	1.12E-05
Rps27	-0.77385	25.64619	0.000407
Rps29	-0.81009	33.88326	1.12E-05
Rpl36a	-0.83384	18.76756	0.008019
Rpl37a	-0.83456	30.66304	3.92E-05
Rpl36	-0.86579	37.52132	3.15E-06
Rps28	-1.15581	37.21717	3.15E-06
Plac8	-1.53898	21.99787	0.002033
Mzb1	-2.90602	32.59956	1.69E-05

KRV11 vs KRV9

Term	Count	%	P-Value	Benjamini
defense response to virus	4	16	6.00E-04	1.30E-01
response to virus	3	12	5.10E-03	3.90E-01
spermidine biosynthetic process	2	8	5.20E-03	3.90E-01
T cell costimulation	2	8	2.80E-02	1.00E+00
innate immune response	3	12	4.50E-02	1.00E+00
T cell receptor signaling pathway	2	8	5.90E-02	1.00E+00
neutrophil chemotaxis	2	8	7.30E-02	1.00E+00
positive regulation of T cell proliferation	2	8	8.30E-02	1.00E+00
cell cycle arrest	2	8	9.40E-02	1.00E+00

piC11 vs PBS11	logFC	LR	pAdj	KRV11 vs piC11	logFC	LR	pAdj	KRV11 vs PBS11	logFC	LR	pAdj	KRV11 vs KRV9	logFC	LR	pAdj	KRV11 vs KRV7	logFC	LR	pAdj	KRV9 vs KRV7	logFC	LR	pAdj
Pl16	3.469577	43.42499	3.59E-08	Cxd10	4.894096	66.53582	2.62E-13	Cxc10	4.188067	372.1208	7.65E-79	Ubd1	4.357099	86.95932	1.69E-17	Ubd1	5.44129	113.3517	1.50E-23	Cxc10	2.050254	10.46657	0.001874
H19	1.710437	15.08318	0.009396	Xcd10	4.661918	45.3358	6.13E-09	Loc10	3.916454	57.33908	1.08E-11	Ucd1	3.368184	68.96481	9.44E-14	Ucd10	4.910586	98.40061	2.48E-20	LOC100911498	1.937736	88.13994	3.70E-17
Pla2g2a	1.616885	10.94733	0.041643	LOC100911498	4.150446	289.8952	6.00E-61	Ucd11	3.543003	41.30916	2.52E-08	Cc17	3.07583	47.61397	1.59E-09	Cxc11	3.615559	62.56741	7.12E-13	Gcg	1.18889	51.67086	1.32E-09
Mtap5	1.320206	16.14602	0.006142	Cxc9	3.528537	45.7615	5.09E-09	Ucd11	2.924493	20.24787	0.000423	Cxc10	2.848077	36.10911	3.57E-07	Cxc11	3.104068	55.05177	2.39E-11	Pyy	1.711288	57.5752	0.007192
Gsn	1.265825	29.43369	2.11E-05	Cxc11	3.391594	28.33433	1.48E-05	Cc17	2.923971	22.78469	0.000133	Cc19	2.561374	10.13993	1.03E-20	Cc17	3.00564	31.98156	1.64E-06	Cd9	1.490142	37.54477	7.22E-07
Tnfrsps1	1.166091	21.08061	0.000848	Cc7	2.717871	17.10841	0.002269	Cc19	2.818164	35.90573	3.18E-07	Cc19	2.310154	36.38418	3.36E-07	Cc19	2.734955	68.87026	3.63E-14	Kr119	1.429147	14.16579	0.011532
Wfrc1	1.073427	14.85258	0.010186	MGC108823	2.494277	62.51918	1.82E-12	Cc19	2.632458	42.81653	1.19E-08	Iglt5	2.211084	83.3691	8.33E-17	Gbp2	2.709496	82.07444	6.35E-17	Ube2c	1.370635	14.06607	0.01189
Gpc3	1.028403	13.4483	0.016866	Cc2	2.473636	18.79241	0.001134	Cc12	2.581493	26.23756	2.90E-05	Cxc9	2.191647	36.832	2.72E-07	Ic12	2.476427	28.58037	8.10E-06	Kr118	1.359837	19.47179	0.001769
Fndc1	0.998914	14.16128	0.013121	Iglt5	2.47335	44.32915	8.58E-09	Cc1	2.357632	60.60864	2.50E-12	Cc1	2.037751	85.16807	3.73E-17	Cg2	2.462308	63.16272	5.33E-13	Cenpf	1.295034	18.21843	0.002596
Cdkn1c	0.915294	12.71863	0.022222	Irf1	2.416785	50.43773	5.63E-10	LOC100910973	2.157624	117.147	2.87E-24	Gbp2	2.010627	64.87926	6.09E-13	Irf1	2.372082	176.1306	5.63E-37	Strn1	1.238244	13.22129	0.016866
Tubb2a	0.867463	13.98135	0.01371	RT1-CE5	2.395544	73.59514	8.44E-15	Ifi47	2.098927	57.99948	8.16E-12	Tap1	1.907455	95.30556	3.99E-19	Irf1	2.362816	77.95104	4.72E-16	Respl8	1.230208	10.8199	0.037518
Fbn1	0.855746	16.90978	0.004521	Gcg	2.344072	51.2314	3.91E-10	RT1-CE5	2.060716	69.66441	3.78E-14	Sod2	1.726594	74.53488	6.08E-15	Il18bp	2.218996	70.03024	2.34E-14	Ubd	1.163883	12.02975	0.02602
Tpp3p	0.84796	11.25272	0.03772	Gbp2	2.301752	36.01777	4.38E-07	Vtn	2.053179	63.90923	5.31E-13	Pl16	1.685699	20.45564	0.00053	Tap1	2.199114	80.2187	1.56E-16	Prc1	1.141941	11.85299	0.027608
Dcn	0.847771	13.21552	0.018217	LOC100910973	2.27818	100.0154	2.88E-20	Cfb	1.958838	34.32074	6.39E-07	Il18bp	1.668538	60.23339	4.48E-12	Psmb9	2.17204	86.11889	8.56E-18	Snhg11	1.133993	11.392	0.032197
Col5a1	0.843698	15.05072	0.009483	Il18bp	2.160657	43.08236	1.54E-08	C1b	1.953533	45.1137	3.86E-09	Chi31l	1.600684	25.49808	5.64E-05	Sod2	2.158009	59.13942	3.28E-12	Prc1	1.100755	12.99639	0.001829
Spon2	0.838161	10.65104	0.04476	Cc19	2.140553	26.10326	0.04E-05	Gbp2	1.903764	32.2502	1.60E-06	Cc1	1.585001	11.99459	0.002365	MGC108823	2.103887	70.7236	1.71E-14	Tm4sf1	1.084867	34.61262	2.71E-06
Sulf2	0.82931	10.7111	0.044537	Zbed5	2.118352	121.322	7.43E-25	Cc15	1.876298	24.90933	5.19E-05	Sst5	1.558073	21.29714	0.000362	LOC100910973	2.103637	136.6677	1.51E-28	Tubb4b	1.035231	30.35696	1.95E-05
Igf1	0.796871	13.26409	0.018027	Tap1	2.115825	47.7102	7.68E-09	MGC108823	1.856786	48.6806	8.11E-10	RT1-CE5	1.529615	60.43312	4.44E-12	Ifi47	1.90374	59.29368	3.16E-12	Sneg	1.01633	11.26613	0.033235
Ap13a2	0.788868	12.37871	0.025266	Ifi47	2.077844	44.61449	7.84E-09	Ptp4a3	1.833522	65.57231	2.37E-13	Ifi47	1.517927	50.72313	3.52E-10	Psmb10	1.889236	89.45102	1.92E-18	Cen7a	0.991807	12.15251	0.024976
Htra3	0.772903	12.65794	0.022472	LOC10309362	2.035129	54.04972	1.02E-10	Cox4i2	1.749322	58.02654	8.16E-12	Tmcp1	1.483111	65.08611	5.85E-13	Myh11	1.887495	25.06962	4.09E-05	Hmgb2	0.982917	14.26822	0.010984
Pmp22	0.765113	13.7336	0.00948	Cb	1.979649	34.08209	1.04E-06	Fb	1.733612	44.44351	5.25E-09	MGC108823	1.737928	45.10029	1.44E-08	Strn1	1.783928	21.44924	0.000208	Itgat1	0.972418	14.63985	0.00081
C1etm2	0.757884	11.41822	0.036101	RGD1564664	1.901279	19.97031	0.000667	Cc19	1.697635	77.90765	7.98E-16	Cc15	1.746568	24.68685	4.87E-05	Iap2	1.746568	24.68685	4.87E-05	Iap2	0.962263	12.17399	0.024828
Rhoj	0.70316	11.85796	0.040775	Psmb9	1.889665	40.37884	5.84E-08	Rgd	1.691486	33.78718	0.08E-07	Psmb9	1.361598	56.44629	2.72E-11	Igtp	1.70263	61.55626	1.09E-12	H2afz	0.943629	27.94476	5.41E-05
Cd302	0.685096	10.39772	0.038339	Myh11	1.757848	14.4676	0.007001	So2	1.684814	36.3818	2.56E-07	Myh11	1.355665	25.95702	0.00011	RT1-CE5	1.673431	60.23262	2.08E-12	S100a9	0.943366	11.03927	0.035165
Plac9	0.655455	11.40802	0.036143	RT1-A1	1.743746	37.96539	1.79E-07	Gj4b	1.666506	63.2351	7.23E-13	Zbed5	1.288899	128.0825	1.32E-25	Act2	1.671659	43.59857	6.42E-09	S100a4	0.939875	11.09666	0.03484
Adamt5	0.624879	11.22262	0.037989	Psmb8	1.685064	48.56645	1.40E-09	Il13	1.652331	56.56693	1.57E-11	Ii33	1.263223	21.33304	0.000358	Des	1.666177	65.93026	1.55E-13	Acta	0.932174	18.28001	0.002541
Ccdc80	0.598764	11.94523	0.030073	Hspa1a	1.675041	37.20578	2.53E-07	Gbp5	1.611807	35.28625	4.21E-07	Tubb4b	1.259042	24.46293	8.66E-05	Tubb4b	1.642016	62.00163	8.86E-13	Syt5	0.918455	30.01133	2.17E-05
Eva1b	0.595385	10.79595	0.04348	Psmb10	1.674632	44.86612	5.54E-09	Tubb3	1.257521	36.96504	2.58E-07	Cfb	1.247557	15.08693	0.006345	Stat1	1.58937	59.24947	3.16E-12	Map1b	0.916882	8.52033	1.46E-05
Pdgfrb	0.580126	11.11054	0.039677	Igtp	1.651101	37.8784	1.83E-07	Gbp5	1.555448	27.30925	1.74E-05	Cc1	1.232621	74.76152	5.91E-15	Stat1	1.571917	11.03769	0.019574	Mki67	0.915378	10.10716	0.046723
Rn28s	0.567832	10.72912	0.044399	RT1-A2	1.650969	34.07767	1.06E-06	Myb15	1.532028	13.24788	0.00933	LOC100910973	1.232621	74.76152	5.91E-15	Pl16	1.571917	11.03769	0.019574	Acly	0.901612	15.60977	0.007192
Rnd2	0.4577	10.60464	0.044874	So2	1.613965	21.28706	0.000362	RT1-A1	1.514058	35.61377	3.65E-07	RGD1039362	1.215814	49.01981	7.95E-10	Chi31l	1.556368	17.15488	0.001382	Acta2	0.878796	15.98112	0.006431
Snx20	0.456123	10.62879	0.04476	Myo1b	1.585707	40.27654	6.00E-08	Actg2	1.509377	17.23629	0.00162	RT1-T24-3	1.206638	40.25191	5.47E-08	Actg2	1.510673	26.35173	2.30E-05	Basp1	0.871643	23.75058	0.000032
Fars2	0.456121	10.62879	0.04476	Psm2	1.572002	40.15877	6.23E-08	Psmb10	1.493954	48.91304	6.73E-10	Prrs1	1.197633	51.42952	2.59E-10	LOC10309362	1.500053	50.41933	2.33E-10	Id1	0.871073	16.48279	0.005618
Eef1a1	0.42482	11.97595	0.029724	Gbp5	1.571048	10.88684	0.000276	Upp1	1.420812	29.53032	5.97E-06	Psmb8	1.177809	42.93258	1.51E-08	Psmb8	1.487786	62.04585	8.86E-13	Cav1	0.85687	12.76468	0.001978
Rp3b	0.45908	12.81965	0.021517	Vtn	1.570304	31.30642	3.71E-06	Ndufa4i2	1.402045	40.18061	4.21E-08	Gbp5	1.175648	58.3838	1.10E-11	Gbp5	1.478361	30.86873	2.74E-06	LOC100910973	0.851831	31.36604	1.32E-05
Rpl41	0.47587	14.20909	0.012969	Tpm1	1.510181	29.63741	8.05E-06	Psmb9	1.385757	39.90074	4.72E-08	Psm2	1.166236	34.46776	7.80E-07	Psm2	1.454768	55.08487	2.39E-11	Akap2	0.848857	21.8049	0.000747
Ropgrip1	0.4884	10.42614	0.048085	RT1-T24-3	1.484155	25.28972	5.64E-05	Acta2	1.369605	26.14947	2.94E-05	Manf	1.116135	52.70866	1.75E-10	Tapb	1.245472	40.92518	2.30E-08	Lmnk1b	0.843758	16.4678	0.005618
Sh3bp4	0.4923	10.38446	0.048363	C2	1.482275	24.57721	7.78E-05	Igtp	1.369458	51.19432	2.20E-10	Psmb10	1.161393	56.22742	2.93E-11	RT1-A1	1.41004	36.06472	2.55E-07	Or163	0.827627	17.23232	0.004051
Prrg2	0.49703	10.37237	0.048518	Psm1	1.450897	38.17181	1.22E-13	Cc19	1.365344	33.80382	8.47E-05	Mx1	1.115041	30.43183	5.96E-06	Tubb3	1.401417	31.04371	2.55E-06	Tubalc1	0.823329	13.95191	0.012293
Rpl37a	0.50982	17.79828	0.003015	B2m	1.444527	93.64576	5.40E-19	Msn	1.320055	35.07967	4.57E-07	Vcan	1.100804	17.78914	0.001853	Manf	1.381821	47.65648	8.94E-10	Psmb9	0.821338	18.5829	0.00241
Slc16a10	0.52103	10.63441	0.04776	LOC108348108	1.429395	25.45716	5.24E-05	Chi31	1.307671	19.154697	0.047909	C4b	1.069712	36.31228	3.43E-07	Sneg	1.364891	14.92411	0.003737	Efr3a	0.819095	23.74029	0.000311
Mtpap	0.52103	10.63442	0.04476	Hspa1b	1.419981	25.78021	4.66E-05	Tm4sf1	1.305742	41.02811	2.82E-08	Tapb	1.067179	34.79299	6.70E-07	Cc19	1.347162	32.44289	1.33E-06	Cdc20	0.806157	14.6925	0.009591
Ctndd2	0.52103	10.63442	0.04476	Stat1	1.389899	30.05502	6																

Mrlap1	-0.70653	17.37884	0.003604	Sic15a3	1.024295	12.31372	0.016921	Sectm1b	0.995574	14.07878	0.006441	Pla2g16	0.708053	18.51191	0.001291	Top2a	0.980492	9.455641	0.03511	Nme1	0.680422	19.61806	0.001712
Oas1b	-0.70963	10.3539	0.048844	Jun	1.023534	23.12278	0.000157	Marcks1	0.988502	26.15947	2.94E-05	Cyp7b1	0.699735	15.74673	0.000464	Top2a	0.980333	20.16004	0.000369	Tmed7	0.677428	16.06439	0.006345
Ef13a	-0.71337	10.9635	0.041442	Cd40	1.018509	13.58659	0.008877	Dnasel1	0.978808	22.27509	0.000165	Scarf1	0.690235	15.54483	0.000513	Mcam	0.970094	15.96194	0.002344	Stat1	0.674879	11.39608	0.032197
Ank1	-0.71481	10.34164	0.049007	Irf7	1.016215	11.38541	0.02543	Mfge8	0.976143	44.69586	4.69E-09	Mvp	0.680036	16.74145	0.002961	Plha	0.968558	35.54531	3.18E-07	Mrlp32	0.664974	14.99848	0.005854
Isg20	-0.71483	10.30705	0.049607	Irgm	1.012533	15.44051	0.004616	Actb	0.972814	105.2861	1.04E-21	Tubb5	0.679708	24.88008	9.44E-05	Adla	0.966169	21.69585	0.00019	Tubb6	0.664644	10.19684	0.054546
Pdgbp	-0.71581	10.80705	0.042446	MGC105567	1.012423	18.40286	0.001337	Cd36	0.970006	15.93681	0.002848	Xdh	0.676611	15.2764	0.005798	Thy1	0.962922	20.63294	0.000303	Gc1c	0.663211	10.42332	0.042624
RGD1560394	-0.71621	14.73976	0.010386	Pycr3	0.987862	19.53993	0.000817	Rdh7	0.963084	16.63319	0.002137	Sp110	0.674762	16.81429	0.002866	Tspan15	0.962637	18.35957	0.000833	Epas1	0.662556	15.79221	0.006913
Lamp2	-0.71912	12.99973	0.019716	Cm1	0.995614	17.90899	1.75E-05	Cyba	0.957109	12.40021	0.013157	Marck1	0.671738	23.27651	0.000146	Mdh2	0.961788	31.81825	3.28E-07	Mrlp15	0.656077	15.70157	0.007081
Spint1	-0.72048	15.86038	0.006829	C1s	0.993198	14.93194	0.00577	Prosl	0.951879	22.71063	0.000137	Dtx3l	0.668731	14.11311	0.009798	Ecrr1	0.960829	19.44309	0.00051	LOC108348108	0.660136	11.25268	0.033245
Hibadh	-0.72264	11.03344	0.040702	Kcnj8	0.989731	13.36881	0.007316	Vcl	0.946069	22.41231	0.000157	Pelo	0.661727	17.48099	0.0021	Lgals13p	0.957514	24.60708	5.04E-05	Usp14	0.660128	14.95524	0.008725
Foxa2	-0.72503	11.05141	0.040471	Maged2	0.989458	25.49531	5.23E-05	Tapbp	0.945315	16.54527	0.002212	Plat1a	0.65556	15.9576	0.004216	Stat2	0.952371	22.2967	0.000147	Rpia	0.654938	14.47469	0.010133
Mtsx1	-0.72542	11.90656	0.030397	Lyge6	0.978762	22.91403	0.000173	Parp14	0.945211	13.35815	0.008926	Actb	0.654405	104.7564	8.45E-21	Alkap2	0.949555	21.96902	0.000169	Ev1s	0.654432	27.52695	6.48E-05
LOC498368	-0.73019	12.69071	0.022316	Phf20	0.972767	15.34418	0.004812	Mgtr3	0.927889	18.51955	0.000925	Egr1	0.652089	11.93133	0.024123	Gjx4	0.947703	23.30327	9.35E-05	Riok3	0.654095	15.02515	0.008548
Cmb1	-0.73704	11.57725	0.034007	Cdk4	0.95987	25.94654	4.32E-05	Tpm1	0.924162	16.06604	0.0027	Cnn1	0.640863	11.97604	0.023786	Mk1	0.946261	11.76949	0.014576	Hmmr	0.654019	12.62643	0.020681
Der13	-0.73968	14.71385	0.010504	Ptpn1	0.95924	11.24454	0.026404	Bcam	0.924081	15.75791	0.003097	S1pr3	0.632564	13.46138	0.0129	Pttg1	0.944408	17.32076	0.001287	Ranbp2	0.653654	16.09553	0.006345
Ddc	-0.7401	11.43457	0.035941	Esam	0.957075	12.59208	0.015074	Id3	0.921709	18.35894	0.000997	Msr1b	0.631565	17.56088	0.002064	Caln3	0.938155	25.97248	2.72E-05	Cct8	0.653459	16.46437	0.005618
Top1	-0.74251	10.28858	0.049618	Myf6b	0.956815	57.05642	2.48E-11	Erfk2e	0.91527	19.9059	0.000489	Ar18a	0.609429	17.46079	0.0021	Myf6b	0.93805	88.96594	2.33E-18	Rbm8a	0.64851	22.92371	0.000444
LOC100362110	-0.74546	11.83918	0.030798	Snmp70	0.956732	15.7701	0.003991	Cnp	0.910208	15.04074	0.004322	Runx1	0.603802	17.58667	0.002048	Cd9	0.93721	17.36207	0.001268	Yae1	0.647593	14.58375	0.009918
Lgals9	-0.74743	10.30889	0.049607	Prrs1	0.9506	14.09059	0.008135	Tspan15	0.907974	13.85946	0.007084	Pid1	0.605167	16.06193	0.004099	Adp1a	0.935545	18.71923	0.00071	Cacna2d1	0.646656	12.55487	0.021297
Des1	-0.74753	10.07817	0.019271	Ndufa4l2	0.950595	15.06131	0.005462	Cdkn1c	0.907875	11.9701	0.015599	Nkfb2	0.5995	13.22539	0.014201	Pola9	0.934544	25.52098	3.35E-05	Uchl1	0.646258	10.71385	0.038106
Abcn7f3b	-0.75221	10.77254	0.043723	Myf9	0.949653	27.97082	1.74E-05	Ano1	0.905952	16.2935	0.002431	Vtn	0.595713	13.3576	0.013345	Parp9	0.932381	21.60434	0.000197	Golg1b	0.645826	13.33756	0.01629
Otc	-0.75286	12.29768	0.025756	Dnppp	0.942273	17.6074	0.001845	Mcm	0.904886	14.97962	0.004449	Grr	0.587685	14.8716	0.006566	RT1-A2	0.931529	20.41971	0.00333	Thyl1	0.644752	11.79122	0.033235
Paps2	-0.75629	10.61319	0.04482	Spt4	0.935609	24.79309	7.09E-05	Cyba	0.902923	13.36845	0.000102	Cyk	0.582044	15.37313	0.005656	Mfge8	0.930602	41.47461	1.75E-08	Rho2	0.643971	18.89002	0.002209
Atps5mc2	-0.76003	16.53787	0.005238	Mett19	0.935866	16.12931	0.003418	Ppp1r12c	0.898426	18.25235	0.001051	Smtn	0.581203	10.70227	0.041701	Sic12a	0.930471	18.56056	0.000759	Nci	0.641753	18.18625	0.002612
Vcjp1p1	-0.76211	10.01508	0.00432	Sic39a1	0.9353	18.36812	0.001353	Insp4b	0.895146	19.56475	0.001386	Tubb4b	0.577977	10.86672	0.038773	Myo1b	0.930307	22.8958	0.000147	Ptpn1	0.641082	14.48181	0.010133
Sphkap	-0.76412	12.54521	0.023377	Selenot	0.934903	16.37459	0.003081	MGC105567	0.893206	17.44826	0.00148	Wars	0.577659	12.41883	0.020198	Cspg4	0.930167	18.14411	0.000901	Igtp	0.638145	11.93376	0.02681
Rnf208	-0.7653	12.04645	0.028759	Hmxo2	0.93169	16.52988	0.002883	Sic24a	0.892128	14.27889	0.005986	Nmi	0.5765	16.18246	0.003868	Alkap2	0.9289	25.38882	3.52E-05	Ev1s	0.637689	14.47664	0.010133
Ube2b	-0.76632	10.89615	0.042446	Stat2	0.928893	13.47272	0.01045	Spink8	0.87949	12.19828	0.01416	Myf9	0.569967	24.91702	7.05E-05	Cnn3	0.927188	26.5841	2.05E-05	Hspab1	0.634391	18.01729	0.037518
Me1	-0.76681	10.81975	0.043103	Cox4i2	0.928587	14.17381	0.000284	C1qtnf2	0.875862	21.14109	0.000284	Msn	0.566626	14.18307	0.000929	Khsrp	0.922816	20.70091	0.000295	Khsrp	0.633564	15.06734	0.008458
Cct2	-0.768	10.70267	0.044577	Oas2	0.928541	11.4269	0.025019	Ctrb1	0.875449	16.79982	0.001981	Farp1	0.566534	13.7434	0.011297	Arfip1p	0.91711	20.31076	0.000347	Arfip1p	0.62691	10.61963	0.39557
Rbbp7	-0.76802	11.39751	0.036191	Sic25a5	0.92658	24.33546	8.73E-05	Ptgis	0.865161	52.67722	1.50E-10	Myf6b	0.565161	52.67722	1.50E-10	Adgre5	0.915467	22.53082	0.000134	Tubb5	0.626822	16.97602	0.000545
Krtcap3	-0.77185	15.99699	0.006525	Marcks1	0.923453	18.5349	0.001272	Map1l3c3a	0.87315	39.96467	4.64E-08	Tpm2	0.562975	23.70171	0.000213	Ctnnb1	0.91222	22.25353	0.000148	Ldhb	0.625634	17.23781	0.004051
Nr1c1	-0.77211	10.48116	0.047315	Pncr1	0.922889	19.47976	0.000831	Pdgfrb	0.871306	37.09583	1.85E-07	Nkfb1	0.559207	15.11662	0.000623	Marcks1	0.911786	27.37307	1.42E-05	Tmem14c	0.624947	20.27292	0.001404
Mdh1	-0.77262	10.87661	0.042446	Eef1a1	0.915861	99.99811	3.93E-20	Eef1a1	0.870905	33.16221	1.06E-06	Ppp1r12c	0.557535	13.68481	0.011603	Farp5	0.907136	10.03514	0.028327	Rcn3b	0.624914	16.37966	0.005767
Fdps	-0.77418	10.55522	0.04593	Pde3a	0.910328	14.02947	0.007083	Lamb2	0.869413	20.60512	0.000359	Pldb2	0.554484	16.63147	0.003121	Farp5	0.905554	20.6941	0.000295	Scn8s	0.623692	37.72335	7.06E-07
Trappc9	-0.77448	13.37921	0.017291	Insp4b	0.906109	14.60329	0.006628	Pid1	0.867389	17.47684	0.00147	Dkn1	0.553366	14.2125	0.00947	Nr1b1	0.89607	57.16276	8.63E-12	Caln1	0.62252	38.705	4.60E-07
Ctsc	-0.77829	15.21625	0.004814	RT1-CE14	0.904377	12.60326	0.019131	Act2	0.856177	12.57509	0.003885	Fklc1	0.552429	16.83748	0.004665	Crp1	0.894246	36.03547	2.56E-07	Eno1	0.621094	15.94033	0.006497
Rrp1	-0.77969	11.89237	0.030397	Ifi27	0.903691	14.66717	7.84E-09	Gucy1a1	0.854109	14.27089	0.005986	Mfge8	0.552363	25.2057	6.31E-05	Scarf1	0.892865	19.495	0.000499	Cmpk1	0.617581	13.22857	0.016866
Enpp5	-0.78229	14.03624	0.013684	Ube2v1	0.902753	17.99362	0.001595	Peil1	0.853615	16.16688	0.002579	Nsun2	0.551419	11.99596	0.023656	Psm7a	0.888557	55.17002	2.34E-11	Cox4i2	0.617566	12.88644	0.019024
Uba2	-0.78465	10.84306	0.042886	Pld1	0.900228	15.95208	0.003698	Steap4	0.853082	134.3062	0.005978	Ifi1	0.550154	21.10448	0.000396	Flna1	0.879148	12.59669	0.001059	Ndufa4l2	0.617039	11.65162	0.30032
Clock	-0.78706	11.842	0.030798	Ckn1a1	0.899413	16.85004	0.002557	Bst2	0.853015	13.94464	0.006874	Birc3	0.549548	20.91736	0.000428	Nampt	0.878327	32.35154	1.38E-06	Ppp1r2	0.616796	14.93651	0.008755
Dctn6	-0.78985	11.07979	0.040016	LOC498592	0.898173	17.5189	0.001901	Pfkfb	0.845581	13.21113	0.009462	Etck2	0.548682	10.88414	0.038768	Phtac2	0.875228	21.60792	0.000197	Tmed5	0.61612	14.52034	0.010068
Hmrna2b1	-0.79117	12.71959	0.022222	Psmal1	0.897641	18.85964	0.00102	Csk	0.840622	18.17877	0.001067	Vps3r3	0.545373	14.57397	0.008005	Tor1a1p1	0.874478	21.90731	0.000173	Myo1b	0.615146	16.55777	0.014147
Usp10	-0.79187	10.55709	0.003351	Gabb1r	0.897408	16.47893	0.002993	Cavin3	0.836527	26.57853	2.49E-05</												

Sc5d	-0.89578	11.79984	0.03131	Id3	0.802999	11.40614	0.025224	Maged2	0.743715	19.7471	0.000525	Fstl1	0.368516	16.21743	0.003818	PsmA5	0.794975	22.09082	0.000161	Papola	0.565463	11.40266	0.032197
Rtkp4	-0.89697	11.68299	0.032438	Psmid12	0.801225	13.20728	0.017102	Tmem140	0.73794	12.00207	0.015371	Cdk4	0.368059	10.30208	0.049424	Dkc1	0.78973	18.61766	0.000742	Tubal1a	0.565394	30.30544	1.95E-05
Fkbp11	-0.897	11.64425	0.032972	Pkp	0.801187	11.64425	0.028016	Colc12	0.734818	12.19784	0.01416	Gapdh	0.350434	10.28064	0.0497	Bcl2	0.789025	19.0655	0.000606	Ano1	0.564529	9.955596	0.049732
Pgrmc1	-0.89705	16.02772	0.006327	Prkx2	0.799331	33.4261	1.37E-06	Ptms	0.73251	38.08756	1.14E-07	Cox4i2	0.348099	10.52199	0.044969	Cox4i2	0.78836	13.8663	0.005894	Slf2	0.564106	10.77544	0.037901
Erfec1	-0.90105	14.55202	0.011119	Mpv	0.797809	9.838476	0.045658	Tubb2a	0.7328174	11.87773	0.02916	Lmo1	0.328174	11.87773	0.02916	Cdkn2c	0.784316	12.5619	0.010303	Mprp15	0.561197	13.24768	0.016799
Evl	-0.90249	14.03142	0.013684	Ybn1	0.794685	16.89079	0.00275	Psmb3	0.732028	24.24323	6.83E-05	Ndc	0.310403	19.83637	0.000707	Ednrb	0.783574	13.96427	0.005679	Lmb2	0.561351	11.91186	0.026947
Paps1	-0.90601	11.38035	0.036137	Klf9	0.793439	12.76643	0.04058	Cebpb	0.73071	10.69536	0.026252	Bdrb1r1	0.308627	12.97443	0.015772	Ctcf	0.783149	19.82175	0.000451	Sfb2	0.559525	16.81414	0.004853
Os4	-0.90613	14.41107	0.010186	Bmyr	0.792316	12.67393	0.014678	Lmna	0.728151	26.19722	2.92E-05	Rpl7	0.295369	17.01538	0.002593	Ctcf	0.780768	27.2548	1.49E-05	Inpa4b	0.559517	10.01126	0.048513
Maged1	-0.90834	13.08367	0.019271	C1	0.792666	15.80825	0.00395	Atpf51a	0.728065	19.97389	0.000476	Prx2	0.292211	10.7999	0.039812	Cyba	0.78033	22.47032	0.000137	Hgmt1	0.559127	11.42194	0.032121
Hspad1	-0.91318	12.65296	0.02274	Bsg	0.792329	30.59664	5.27E-06	Dnm1	0.726677	12.60359	0.012081	Eef1a1	0.278877	18.07695	0.001063	Hmoab	0.778532	17.15276	0.001382	Hmgbl1	0.559003	15.39234	0.007619
Lgals3bp	-0.91515	19.21902	0.001706	Cf1	0.791975	33.39171	1.37E-06	Cd59	0.725907	15.67942	0.003216	Reg1a	0.277398	10.61582	0.043283	Nucks1	0.777747	19.75535	0.000443	Smc3	0.557621	10.4154	0.042687
Mett19	-0.91989	15.2645	0.008892	Fbxo6	0.791704	13.09382	0.012325	Ahrhg25	0.725238	12.90506	0.010798	Cdg3	0.224421	12.2231	0.021795	B2m	0.777457	46.11683	1.88E-09	Ywhag	0.557466	18.53321	0.00241
Rab3a	-0.92147	12.37135	0.025266	Ghlitm	0.789643	11.48767	0.024287	Cnn1	0.719577	9.404777	0.042885	Rpl23	-0.23718	11.08056	0.035823	Ahrhg25	0.776763	16.75573	0.001675	Arf16pe	0.557081	10.63039	0.039524
Klfc3	-0.92735	10.99532	0.041057	Clec2g	0.788897	17.15255	0.00223	Cdc42ep4	0.716337	12.14965	0.014412	Rps28	-0.24794	14.0647	0.00996	Page1	0.775226	12.68172	0.009864	Adrm1	0.556481	11.27539	0.033235
Atp2a3	-0.92878	11.01653	0.040813	Poir2m	0.787685	14.6852	0.006431	Lgal81	0.714659	12.1778	0.014267	Rpl24	-0.27437	11.99575	0.023656	Epas1	0.770937	17.19601	0.00136	Notch3	0.555558	12.18585	0.024828
Rab3b	-0.92907	14.85013	0.010186	Hspa14	0.786811	10.8192	0.031143	Rarres2	0.713357	30.62832	3.59E-06	Dus8p	-0.28118	10.4744	0.045857	Page1	0.76978	16.73146	0.00169	Hspa5	0.553917	15.17325	0.008146
Sec61b	-0.93173	26.49503	8.15E-05	Cdc3c1	0.786479	10.3748	0.036739	Socs1	0.711869	18.6305	0.000877	Tpt1	-0.28442	15.3882	0.00555	Ppp1r12c	0.769543	15.7245	0.002612	Drgk1	0.553686	15.57068	0.007192
Hnmpd	-0.93196	14.5986	0.010925	Etf4e3	0.784805	11.79737	0.021139	Emp2	0.701592	10.9032	0.024061	Emp2	-0.29655	12.58762	0.018856	Tmem176b	0.769366	10.60864	0.022906	Ndufab1	0.552921	13.77272	0.01345
Cox17	-0.93604	14.69247	0.010546	Srpra	0.7845	11.95317	0.019876	Ferm12	0.697899	14.26992	0.005986	Epob113	-0.30187	12.04918	0.023226	Dctp1	0.769006	12.52507	0.010438	Ebag9	0.551874	11.27728	0.033235
Ghr	-0.94066	15.29604	0.008818	Actb	0.783489	49.45905	8.40E-12	Pgf	0.697261	14.13632	0.006287	Czh110	-0.32273	12.43291	0.020198	Actp15a	0.768783	28.09713	1.01E-05	Ubln1	0.551155	11.98688	0.026302
Sr4	-0.95055	24.29706	0.000214	Csrp1	0.782695	17.50952	0.001901	Igfbr4	0.695804	14.48456	0.005536	Elob	-0.33789	10.87901	0.038768	Tpm3	0.768032	16.44235	0.001904	Smcarc1	0.550155	12.23644	0.02439
Cla2a	-0.95588	22.19654	0.005536	Ckb	0.780265	10.6066	0.033893	Slc12a2	0.693608	9.805526	0.037153	Ckb	-0.34989	11.23708	0.033035	Actp15b	0.767599	37.38696	1.36E-07	Hipk1	0.549887	10.30964	0.044086
LOC10348108	-0.95719	13.969	0.01371	Rbm	0.779165	11.08132	0.028341	Tcf4	0.68583	14.51185	0.005492	Actp15b	-0.35075	15.96715	0.004216	Ipst1	0.761468	20.1242	0.000371	Emc2	0.549678	10.94208	0.036302
Dhrs7	-0.95841	14.80296	0.010186	Ndrp2	0.779071	10.21669	0.039313	Mxd4	0.687376	13.09006	0.010034	Ndufab13	-0.35134	11.97096	0.023786	Dbn1	0.759469	15.2322	0.003211	Pgam1	0.549471	13.47158	0.015377
Tspan13	-0.97687	19.10339	0.001762	Tspan3	0.776512	10.17777	0.000397	Klf9	0.684968	12.1309	0.014522	Rps23	-0.35206	19.45285	0.000847	Gria6	0.759395	19.86305	0.003838	Chptn	0.54805	10.9298	0.036428
Slc38a4	-0.98142	14.46128	0.011585	Stx4	0.776446	9.791787	0.046528	Slc48a1	0.683612	10.62078	0.026997	Cox8a	-0.35444	17.52197	0.002094	Tcf19	0.75531	10.64791	0.022623	Dtd1	0.544481	10.38593	0.04313
Idi1	-0.98174	13.4611	0.016866	Mrfap1	0.775239	28.22661	1.54E-05	Bmp5	0.65705	13.71715	0.007527	Serf2	-0.35728	14.78946	0.007246	Nduf8	0.754313	18.75465	0.000699	Nduf8	0.541871	13.98433	0.012217
Robo2	-0.98477	16.72684	0.004889	Ppp1r12c	0.774883	10.67272	0.033081	Csrp1	0.674916	16.05892	0.0027	Ddx3	-0.35844	13.98703	0.010147	Oas12	0.750827	11.33839	0.017504	Prkar2b	0.541745	12.78049	0.019738
Cdh1	-0.98501	16.72311	0.004889	Msl1	0.773458	11.64995	0.023923	Stbd1	0.673459	11.76454	0.017004	Cst3	-0.36192	13.93612	0.010332	Oas12	0.749962	21.58969	0.000197	Nudt4	0.541522	12.80474	0.019024
LOC100910996	-0.98534	22.39358	0.000507	Iah1	0.769031	11.26525	0.026404	Msrb1	0.670245	10.53335	0.027795	Gng5	-0.37076	12.86777	0.016629	LOC108348108	0.749482	10.81202	0.021267	Slc38a4	0.541504	10.12947	0.046441
Dnpep	-0.9872	15.41675	0.008486	Tubb5	0.768787	14.50785	0.006883	Thra	0.668063	10.40192	0.029092	Atpf5mg	-0.37076	12.86777	0.016629	Actr2	0.748194	18.29852	0.000847	Spcc2	0.541472	15.28058	0.007913
Kcnj11	-0.99333	19.01609	0.001805	Urod	0.768268	10.95904	0.029849	Arcp1b	0.667976	14.00599	0.006674	Atpf5p	-0.3829	11.91323	0.02415	Nkr2b	0.747964	13.81348	0.006015	Tpr	0.539667	10.85608	0.037198
Esp12	-0.99451	18.68457	0.002024	Rpl7	0.767986	58.63061	1.21E-11	Vsn11	0.667341	14.66821	0.005158	Vsn11	-0.38884	11.35242	0.031151	Nkr2b	0.746252	12.56755	0.010295	Elf3a	0.539573	12.36486	0.023268
Ndufb2	-0.10219	28.29022	3.51E-05	Lgals3bp	0.767889	10.6395	0.033591	Jag1	0.667229	10.00933	0.034504	Hnrrnp	-0.39069	11.84121	0.024665	Psmid13	0.744238	20.55112	0.000315	Ranbp1	0.53792	11.15548	0.034793
Id4	-0.10472	13.45342	0.016866	Kpnb1	0.767539	13.84845	0.020696	Khrdb3	0.666373	10.49438	0.02805	Cox7a2	-0.39148	13.56433	0.012271	Cers5	0.742315	16.42458	0.001916	Ednra	0.536456	11.23587	0.033493
Tmem206	-0.102597	10.93621	0.041731	Tmem140	0.766618	10.23932	0.03893	Tprg11	0.665742	12.69436	0.011712	Hist3h2ba	-0.39731	10.44649	0.046441	MGC105567	0.742132	13.2419	0.007702	Ldha	0.535287	10.76635	0.037901
Cla2a	-0.10315	18.39936	0.002298	Klhl42	0.765624	14.3478	0.07304	Gucylb1	0.660799	9.660235	0.039218	Ndufab1	-0.40081	10.32719	0.048905	Ndufab1	0.741797	17.44559	0.001222	Psmid11	0.534663	10.01073	0.048513
IFZ7	-0.103812	78.53809	2.99E-15	Cdc42ep4	0.762997	11.26494	0.026404	Cdt24	0.660475	14.35641	0.005886	Nkr1	-0.40248	11.91068	0.02415	Prrm1	0.741027	24.77897	4.70E-05	Prrm1	0.534281	10.27833	0.044232
Fos	-0.103819	13.97271	0.01371	Raly	0.762804	20.18691	0.000609	Rspo1	0.660281	10.10585	0.033115	Tms4f4	-0.40268	10.28801	0.049652	Gsch	0.740865	14.80068	0.003933	Dctn3	0.534318	12.61349	0.020732
Gria2	-0.10535	16.16935	0.006213	Plopg6	0.762174	16.49962	0.002914	Sgn	0.659544	9.76977	0.037544	Atpf5f1	-0.41076	12.06235	0.023149	Sertad1	0.740387	13.84616	0.005927	Bfar	0.534322	10.72406	0.038052
Emb	-0.105123	16.41731	0.005526	Ldhb	0.762156	12.66476	0.014689	Pz385a	0.659502	10.96623	0.023611	Selenof	-0.42111	12.98012	0.015772	Hspa1b	0.739302	10.95992	0.020109	Psmc5	0.53325	12.66045	0.020492
Sdc1	-0.105189	12.60999	0.028186	Btg1	0.761382	12.59578	0.015074	Cd99	0.657258	28.85124	8.26E-06	Rpl30	-0.43378	29.71091	7.67E-06	Bok	0.739004	11.31399	0.017631	Thoc2	0.531852	10.18739	0.045482
Pdh1	-0.10595	13.96616	0.01371	Paics	0.761013	11.88862	0.020382	Cdc42ep2	0.657021	9.866091	0.03641	Rpl35	-0.43814	27.26014	2.45E-05	Prrms	0.738834	47.50041	9.54E-10	Psmb6	0.531695	15.74143	0.007033
Pbld1	-0.106207	15.25272	0.034175	Il34	0.760506	15.58985	0.004327	Rn45a	0.656102	33.7497	8.15E-07	Rho2	-0.45459	11.04103									

Sctr	-1.45526	14.82387	0.010186	MyI6	0.702366	41.85615	2.81E-08	Ksr1	0.584228	11.12702	0.022416	Son	-0.56734	18.97758	0.001051	Wars	0.686803	13.02185	0.008478	Pabpn1	0.473437	11.11804	0.034824
Mx2	-1.48695	34.46268	2.25E-06	Cope	0.701286	16.07079	0.00349	Ifitm1	0.580802	12.29214	0.013762	Rps17	-0.56804	29.87512	7.23E-06	Cdk4	0.686021	22.00357	0.000167	Trpc6	0.473213	11.531	0.030969
Hmgcn3	-1.5039	28.57869	3.11E-05	Sumo1	0.698396	14.34659	0.007083	Lsm4	0.579558	9.371881	0.043516	Rps25	-0.57296	33.89236	1.00E-06	Pgk1	0.685773	19.15069	0.000582	Kans3	0.472898	10.18125	0.045513
Clu	-1.51483	22.12203	0.000541	Psmb4	0.697302	14.36595	0.007295	Elf4h	0.577504	9.697739	0.038698	Golima4	-0.58401	10.87122	0.038773	Pdnx3	0.685767	13.06453	0.000836	Serb1p	0.467679	11.60247	0.030282
Unc3	-1.51698	18.87097	0.001879	Sub1	0.695654	15.02018	0.005556	Snta1	0.575507	9.09209	0.049382	Amfid	-0.58456	13.0285	0.015449	Ckr2c	0.684668	36.48664	2.13E-07	LOC100362110	0.466821	10.56673	0.040353
Sprint2	-1.6037	29.71753	1.90E-05	Tmod3	0.691954	10.29023	0.038004	Cfl1	0.575391	20.97082	0.000305	Snrgp	-0.58697	19.00092	0.001045	Cyp7b1	0.684173	9.87482	0.027989	Oaz1	0.463493	26.31993	0.000106
Slc22a2	-1.62069	17.74909	0.003061	Tpm4	0.691778	12.52459	0.015265	Pmp22	0.574861	9.621248	0.038931	Atg5mf	-0.58942	25.79222	4.90E-05	Nrarp	0.683581	8.61827	0.047923	Rhoa	0.462467	12.82687	0.019451
Ical1	-1.66644	33.1703	4.02E-06	Cd59	0.691603	11.27102	0.026404	Rpl5	0.571348	21.25779	0.000271	Tce9l9	-0.59901	14.04333	0.000982	Sfpq	0.683179	13.64039	0.004799	Sfpq	0.461864	17.03217	0.004457
Scgn	-1.66889	24.90385	0.000164	Cc14	0.686577	11.29283	0.026404	Lpl	0.568387	11.33178	0.020579	Trappc6b	-0.59977	13.94607	0.010324	Bfar	0.682079	12.96616	0.008654	My9	0.461562	14.07638	0.01189
RT1-T24-3	-1.6759	48.37565	3.35E-09	Tmem50a	0.685615	12.16405	0.018096	Sptbn1	0.567636	14.30375	0.005978	Atg5f1e	-0.60361	28.06486	1.67E-05	Immt	0.680714	12.86455	0.009067	PH8	0.460833	11.62333	0.030144
Slc38a5	-1.68406	21.22727	0.000803	Socsl1	0.684047	14.19085	0.007777	Hes2	0.566568	10.91514	0.023957	Sparc1	-0.61001	34.09403	9.18E-07	Lam4a	0.680687	14.60158	0.004287	Mtdh	0.4608	10.70707	0.038106
Pcsk1	-1.70972	16.36237	0.005603	Ubr1	0.68399	9.729821	0.047462	Gstp1	0.565409	14.34545	0.005901	Rpl22l1	-0.61205	24.12265	0.000101	Sbno1	0.68068	13.37098	0.007332	Hmnpa3	0.459489	16.36201	0.005768
Pyy	-1.73229	24.74934	0.000173	KlHdc3	0.680962	10.0267	0.0427	Ehd2	0.565093	10.15552	0.032381	Rnf146	-0.62141	14.97055	0.006682	Mrsps34	0.677819	12.92349	0.000881	Glo1	0.450979	11.25717	0.033245
Snhg11	-1.80547	23.41551	0.000317	Tuba1a	0.678356	28.81428	0.000181	Tpm4	0.564067	9.972624	0.035133	Ppic	-0.62509	17.07836	0.002523	Trex1	0.677583	16.07597	0.002224	Nle1	0.450582	11.12949	0.034824
Chgb	-1.82321	29.38842	2.11E-05	Ndufs2	0.677695	12.40156	0.01625	Cald1	0.563328	20.90647	0.00031	Mdm2	-0.6288	14.45491	0.000405	Pde3a	0.677118	11.98648	0.013277	Las1l	0.450581	11.12949	0.034824
Epcam	-1.87495	29.78985	1.90E-05	Elfk	0.674921	10.39555	0.036677	Abcc9	0.560514	9.37479	0.043516	Trnc6a	-0.63732	14.37561	0.008725	Bsg	0.677178	32.84099	1.14E-06	Sox2ip	0.450581	11.12948	0.034824
Atp1b1	-1.88857	40.74319	1.17E-07	Gstp1	0.673754	16.57899	0.002855	Fam162a	0.55968	9.563809	0.040827	Sf3b6	-0.64102	16.42216	0.003446	Arhgdia	0.675691	17.75363	0.001051	Atpsf1d	0.450326	16.88359	0.004725
Mmp3	-1.89103	15.30206	0.008818	Sav1	0.673247	15.26726	0.004989	Ppp1r14a	0.552883	13.80429	0.007238	Tceal1	-0.6421	14.58528	0.007996	Dnajc3	0.675443	11.84737	0.014096	ltgb1	0.449163	19.64399	0.001712
Cte	-1.90867	31.27642	1.02E-05	Elf3d	0.673126	10.32481	0.037633	Elf4a1	0.552757	18.11788	0.001097	Anapc13	-0.64395	15.77157	0.004627	Arpc4	0.674976	17.53627	0.001174	Nrip1	0.447398	9.984744	0.049077
Csp6	-1.92868	21.73799	0.000636	Atpv61f	0.670193	12.52409	0.015265	Fcgrt	0.540014	8.937375	0.036714	Rpl41	-0.64466	46.95032	2.17E-09	Ppp2ca	0.67495	15.75757	0.002582	Tomm20	0.442984	11.76144	0.028755
Scg5	-1.93396	28.0198	3.92E-05	Cdh13	0.668504	12.85058	0.013495	Ifft	0.533187	23.92101	8.02E-05	Ost4	-0.65078	18.13579	0.001563	Elovl1	0.673997	12.63144	0.000995	Fermt2	0.438709	10.84358	0.037313
Isq13	-2.0576	57.03958	6.10E-11	Mmp113a	0.664187	18.88896	0.001093	Lppm	0.53168	11.13373	0.023385	Rpl35al1	-0.65558	57.89359	1.35E-11	Cct7	0.673785	16.57083	0.001815	Sumo1	0.436796	10.54101	0.008683
Ins1	-2.06412	53.85967	2.46E-10	Vim	0.636995	14.61242	0.006628	Nucb1	0.526546	10.9906	0.023388	Hes1	-0.65901	14.47233	0.003836	Elf4a1	0.672698	33.29199	0.031407	Tfcs	0.436082	11.57975	0.030282
Mdn	-2.09568	22.41262	0.000507	Cox5a	0.663978	15.42798	0.004625	Rnf5	0.524456	10.81713	0.025046	Kcnq4	-0.6598	15.3522	0.005599	Cmp1	0.67232	12.13214	0.012438	Kam	0.436039	16.10038	0.006345
Gc	-2.10216	35.959	1.10E-06	Igfbp7	0.662343	54.27717	9.49E-11	Clic1	0.522021	9.579397	0.040625	Atg5me	-0.67731	17.49355	0.0021	Psm4	0.671923	21.50487	0.000203	Hsp90a01	0.433676	23.75128	0.003311
Spp1	-2.19006	27.72201	4.44E-05	Tspan31	0.661589	10.97839	0.029622	Mdh2	0.518828	9.345005	0.044085	Uqcrc	-0.67812	22.75699	0.000183	Ace2	0.671373	9.32168	0.03686	Atpv6C	0.433273	16.1368	0.006324
Ins2	-2.25842	36.2984	0.061E-12	Foxs1	0.660686	10.69362	0.032972	Ube2m	0.516241	9.472949	0.041882	Igcam1	-0.69276	26.48557	3.49E-05	Igcam1	0.670816	10.55758	0.032222	Trappc9	0.433292	17.3561	0.029016
Krt18	-2.25959	37.50081	5.22E-07	Ube2e3	0.657812	10.00086	0.043016	Cela2a	0.514933	9.067275	0.049493	Dab2	-0.70555	14.50645	0.008257	Hk1	0.669913	13.29129	0.007576	Srrm2	0.427461	12.28737	0.023939
Ifi2712b	-2.26335	102.9361	1.98E-20	Txnp1	0.65617	12.09186	0.018689	Naca	0.504077	23.70924	8.84E-05	Gatc	-0.70634	22.65144	0.000192	Kif5b	0.669828	11.85727	0.014051	Dynlrb1	0.426606	17.60908	0.037901
Tmsb15b2	-2.28225	46.80661	6.88E-09	Elf3f	0.655852	14.53709	0.006806	Rbm3	0.494034	11.10317	0.0225	Sec62	-0.70816	23.52733	0.000132	Ippp4b	0.669458	11.47035	0.016701	Mxd3	0.425644	13.10653	0.017435
Citrn	-2.28581	40.09836	1.45E-07	Sf3b2	0.655574	12.88776	0.013417	Raly	0.493775	11.66903	0.017799	Gas5	-0.71186	23.42331	0.000138	Lima1	0.667908	9.550074	0.03372	Lhx57	0.425391	10.32474	0.043987
Pcsk2	-2.29077	40.82825	1.17E-07	Psmb6	0.65433	12.06736	0.018875	Cdc42	0.485609	22.24865	0.000166	Cox6c	-0.71776	40.24791	5.47E-08	Ddx39b	0.666527	15.4185	0.002961	Mterf1	0.42457	15.58569	0.007192
Krt8	-2.30059	33.7919	2.79E-06	RGD1311703	0.653776	11.35956	0.025709	Eef1a1	0.48346	25.26011	4.45E-05	Vegf	-0.71913	18.87716	0.001101	Rrm2	0.666082	12.52667	0.010438	Rrm2	0.424435	11.10368	0.034824
Pty	-2.40459	40.33006	1.36E-07	Rpl5	0.652673	26.21785	3.88E-05	Sept7	0.474816	16.17237	0.002579	Rps27f	-0.72007	23.26607	0.000146	Kank1	0.665488	9.732424	0.03154	Pip4k2c	0.424441	10.20451	0.045423
Ppy	-2.44074	71.6943	7.17E-14	Hsp90ab1	0.65031	27.9264	1.75E-05	RGD1311739	0.469306	9.271745	0.045505	Yp1f4	-0.72174	22.56994	0.000232	Psm158	0.664858	8.667862	0.047042	Pinx1	0.420625	11.46542	0.031494
Scg5	-2.45727	43.17756	3.80E-08	Slc25a3	0.646329	17.58891	0.001845	Hoxa2	0.469306	9.271744	0.045505	Crip1	-0.73788	39.08777	9.53E-08	Lamc3	0.664699	15.6224	0.002731	Gftrh3	0.419399	11.58387	0.030282
Iapp	-2.49488	57.41698	5.75E-11	Plk1g	0.645505	12.24781	0.017414	Zfp111	0.469306	9.271742	0.045505	Rpl37a	-0.74616	60.28183	4.48E-12	Mvp	0.664254	11.15276	0.018692	Elf5a	0.416325	15.06398	0.004858
Chga	-2.74684	53.96728	2.46E-10	Erh	0.644831	14.55797	0.00676	Eph3	0.468769	11.1531	0.022282	Hmnc1	-0.76726	14.0281	0.010018	Psm1b	0.663411	24.7068	4.85E-05	Psm1b	0.415451	12.89569	0.019024
Sst	-2.77792	29.99616	1.77E-05	Tmed9	0.642257	15.08731	0.005437	Dok4	0.468465	12.72305	0.011642	Rpl36	-0.77191	64.00592	8.43E-13	Snt3b	0.660592	12.04634	0.012885	Kp1	0.414581	11.10812	0.034824
Scgb1c1	-2.82792	21.85357	0.000611	Igfbp4	0.641779	10.81954	0.031143	Ptnp9	0.463242	12.05245	0.015034	Rps26	-0.77335	64.00896	8.43E-13	Rps26	0.659217	15.62489	0.002731	H2afv	0.414578	10.27123	0.044283
Resp18	-2.89113	61.67956	7.69E-12	Zdhhc16	0.639165	10.82595	0.031143	Psmb1	0.459138	9.941689	0.035506	Rypl3	-0.77458	23.57654	0.00013	Synn	0.659038	10.62245	0.022816	Tagln2	0.409666	12.76595	0.019738
Reg	-4.55306	237.208	1.82E-49	Elf5a	0.634502	10.07489	0.005447	Eef1d	0.441637	9.738948	0.03811	Myf6	-0.77853	52.71293	1.50E-10	Elf3c	0.659021	17.32838	0.001287	Slc25a4	0.407922	23.04226	0.000427
				Suc1g1	0.626323	11.11603	0.027974	Ankrk61	0.434908	11.66279	0.017799	LOC100905939	-0.77961	21.66235	0.000306	Jagn1	0.658914	12.38017	0.01123	Psm4a	0.407745	11.63386	0.030144
				Itm2b	0.620491	33.69018	1.25E-06	Atg5f1c	0.431617	9.260854	0.0457	Hoxp	-0.78417	21.0974	0.000396	Atp2b1	0.658805	14.15258	0.0052				

Fubp3	0.508706	10.90542	0.030491	Scn9a	-0.34991	10.6561	0.026595	Hpse	0.62457	10.94015	0.020212	Tmsb4x	0.305402	13.98407	0.012217
Eef2	0.504665	13.63364	0.009701	Shank2	-0.35015	10.42093	0.028901	Ncl	0.623069	13.64351	0.006479	Erich4	0.302524	10.62659	0.039524
Akr1a1	0.496841	10.31247	0.03779	Cckar	-0.35473	11.28544	0.021003	Dnpep	0.621677	11.79004	0.014446	Myf6	0.298168	19.15252	0.001977
Tp11	0.494404	26.61551	3.26E-05	Gng13	-0.36668	10.31927	0.030122	Yy1	0.621598	10.33164	0.025116	Map3k6	0.284735	9.915184	0.049998
Prune1	0.492491	10.44603	0.035871	Cox8a	-0.36963	11.20112	0.021781	Rtp4	0.619983	9.209803	0.038635	Rab15	0.284215	10.14391	0.0462
Phf2	0.49249	10.44602	0.035871	Tmsb10	-0.391	15.16512	0.004075	Cope	0.619974	15.49264	0.00289	Tp53rk	0.284213	9.918145	0.049998
Lyg6	0.49249	10.44602	0.035871	Rap1gap	-0.39124	10.73183	0.026008	Dctn2	0.619325	13.85637	0.00591	Mfmr1	0.284212	9.91814	0.049998
Ppp4c	0.49249	10.44602	0.035871	Ptpn18	-0.39722	13.26702	0.009272	Tnfrs1ap	0.61917	10.9772	0.01996	C6b3	0.283052	18.42386	0.02437
Neu1	0.49249	10.44602	0.035871	Cd68	-0.39817	10.02108	0.034349	Sra1	0.618321	13.88069	0.005864	Sept7	0.276274	10.36147	0.043396
Lyrm1	0.49249	10.44602	0.035871	Tmem37	-0.40074	13.53292	0.008156	Psm1	0.616153	13.7106	0.006289	Rpl23	-0.26284	15.53496	0.007263
Mtpap	0.492489	10.44601	0.035871	Tmem179	-0.40101	13.21071	0.009462	Mdl1	0.614575	10.71139	0.022016	Rpl30	-0.27991	15.6604	0.007157
Rpl19	0.488039	33.6335	1.27E-06	Gabb2r2	-0.41579	13.60933	0.007877	Ppil2	0.614244	11.53494	0.016197	Fau	-0.28123	18.55245	0.00241
Zgat	0.485093	9.988123	0.04312	Aldob	-0.42841	10.85055	0.024702	Pelo	0.614072	10.55202	0.023252	Tmsb10	-0.29863	20.79513	0.001107
Rpsa	0.482785	18.40368	0.001337	Atox1	-0.43175	9.895199	0.036135	Map1b	0.61379	10.26127	0.025766	Rpl35	-0.3065	16.29582	0.005866
Gbp4	0.48155	10.00458	0.043016	Krt20	-0.44188	10.94157	0.02375	Ak2	0.613539	10.13163	0.027141	Ifi27	-0.3111	10.83887	0.037313
Cox4i1	0.476219	21.42791	0.000339	Pm20d2	-0.44993	14.20813	0.006146	Cct6a	0.613171	10.93447	0.020237	Rps15a	-0.33456	21.5793	0.000823
Rplp0	0.472862	20.85854	0.000442	Vsnl1	-0.45041	10.28225	0.030557	B3gnt2	0.612416	8.704499	0.046454	Rpl34	-0.33792	18.96479	0.002153
Psmb5	0.472103	11.14501	0.027662	Ttyh3	-0.45203	10.54283	0.027708	Pea15	0.612403	12.63788	0.009983	Rpl22	-0.35644	15.24384	0.000812
Nrxn2	0.460034	9.642485	0.049433	Mt3	-0.45203	10.54283	0.027708	Psm4a	0.611755	18.79971	0.000689	Atpsf1e	-0.3826	14.58266	0.009918
Cdc42	0.459516	17.96951	0.001595	Slc16a10	-0.45401	9.067306	0.049493	Art3	0.61139	12.96129	0.008654	Rps26	-0.3854	22.6105	0.000601
Ptms	0.4572	12.55014	0.01526	Ankrd49	-0.45401	9.067316	0.049493	Klf12	0.610733	10.51084	0.023654	Rps21	-0.39659	15.45429	0.007481
Rps7	0.439497	17.15235	0.00223	Rps17	-0.45418	10.52809	0.027818	Fbxw2	0.610385	9.925134	0.029233	Rpl35a1	-0.41208	29.842	2.27E-05
Ndufb9	0.439234	9.915538	0.044429	Ces1f	-0.45469	9.071199	0.049493	Traf4	0.609845	10.92408	0.020276	Col6a2	-0.41709	10.76221	0.002791
Cd99	0.425234	10.87296	0.030763	Ehf	-0.45876	12.67907	0.017113	Arhgap21	0.609714	11.64285	0.015473	Gau5	-0.45348	11.57968	0.030282
Sparc	0.424856	17.15331	0.00223	Hist3h2ba	-0.45939	9.68664	0.038795	MGC95208	0.609596	10.26256	0.025766	Itm2a	-0.48295	13.33409	0.01629
Rack1	0.423014	11.0355	0.028925	Rps12	-0.46047	17.62519	0.001378	Sacrn11	0.608735	10.47965	0.023913	Rpl36a	-0.49314	26.33166	0.000106
Rps4x	0.417738	21.12304	0.000391	Flar3	-0.46355	9.492957	0.041569	Smarrc4	0.608452	10.27975	0.025621	Tomm7	-0.5107	14.30909	0.01081
Rpl15	0.403836	17.06597	0.002307	Vsig10	-0.47875	10.12537	0.032828	Shmt2	0.606681	10.00343	0.028728	Rpl36	-0.51916	42.4886	8.62E-08
Rpl8	0.367147	13.00799	0.012764	Sem1	-0.48339	11.06128	0.022811	Srsf7	0.606125	11.00434	0.019743	LOC100909539	-0.52732	14.10435	0.011848
Tmsb4x	0.362377	13.20475	0.011702	Fam43a	-0.48593	9.050863	0.049779	Aarsd1	0.60577	9.309917	0.037092	Rpl37a-ps1	-0.52824	24.16679	0.000268
Rps5	0.34327	10.38647	0.036739	Uqcrb	-0.48922	12.34214	0.013502	Cd44	0.605622	9.784033	0.030946	Mrc2	-0.56309	10.11506	0.046683
Eif1	0.334105	10.87459	0.030763	Ppp1r1b	-0.48932	13.01974	0.10103	Eif5a	0.605483	22.83648	0.000116	Rpl37a	-0.58718	49.48232	3.03E-09
Rpl29	0.312593	10.37381	0.036739	Mettl14	-0.4986	10.49441	0.02805	Cnbp	0.603057	19.71767	0.00045	Rpl41	-0.60963	55.48377	2.34E-10
F7	-0.37998	12.03228	0.019131	Rplp1	-0.52117	23.62947	9.09E-05	Pdrg1	0.602674	10.59966	0.022978	Kazal1	-0.6242	11.80385	0.02833
Rplp1	-0.39809	14.0584	0.008208	Cox5b	-0.52272	14.22927	0.006097	Hdgf2	0.602492	10.29366	0.02547	Rps28	-0.74411	51.38179	1.32E-09
Rspo3	-0.3989	11.033	0.028925	Atp5mc2	-0.52396	12.73343	0.011609	Rragc	0.602206	9.827248	0.0304	Rps27	-0.7612	77.73574	4.76E-15
Rps7	-0.45107	17.65981	0.00181	Rpl30	-0.52532	22.752	0.000135	Zc3h15	0.602153	10.58572	0.023071	Ifi272b	-0.77198	16.32854	0.005818
Rps15a	-0.47607	21.83772	0.000281	Gng5	-0.52651	15.45771	0.00359	Cchcr1	0.601606	11.34878	0.017476	Rps29	-0.77644	91.41388	1.41E-17
Elob	-0.52584	15.74661	0.004022	Carml1	-0.52722	12.96269	0.0105	Rbpms	0.600498	10.20132	0.026345	Prrs1	-0.77812	15.42015	0.007563
Tmsb10	-0.53322	35.98149	4.38E-07	Ppat	-0.52743	10.54859	0.027708	Stoml2	0.6004	10.30393	0.02537	Plac9	-0.77988	21.22364	0.000953
Ndufs5	-0.53413	12.19383	0.017867	Epb41i3	-0.53052	17.76392	0.001286	H2afy	0.599838	10.75973	0.021718	Cips	-0.78829	15.52413	0.007263
Atox1	-0.54435	14.19052	0.007777	Lyplal1	-0.53134	10.63527	0.026842	H2afy	0.599749	10.92538	0.020276	Amy2a3	-1.02293	20.17314	0.00143
Rpl34	-0.57035	30.56865	5.27E-06	Igfs5	-0.53432	17.92396	0.001204	Sptan1	0.599549	10.26029	0.025766	Cfb	-1.07646	11.38383	0.0322
Ddx3	-0.59107	17.69651	0.001786	Ces1	-0.53557	9.473366	0.041882	Birc5	0.599141	10.53965	0.023347				
Diaph3	-0.60534	9.674767	0.048683	Fam160b2	-0.54111	10.82663	0.02497	Vdac2	0.598892	21.1461	0.00024				
Polg	-0.60599	14.21051	0.007759	Rps15a	-0.55502	27.91628	1.29E-05	Sptlc2	0.598599	10.58902	0.02307				
Serf2	-0.61836	29.87225	7.23E-06	Ntrk1	-0.56169	13.08024	0.010058	Rnf26	0.598469	10.72938	0.02188				
Myf6l	-0.65181	18.45159	0.00132	Ncor1	-0.57015	9.435259	0.042535	Nuoc	0.597765	17.87269	0.001002				
Rpl35a1	-0.65805	34.69998	8.15E-07	RGD1560394	-0.5702	10.18575	0.031952	Hnrnpa3	0.596548	26.11588	2.56E-05				
Rps27l	-0.69252	14.01683	0.008358	Rps25	-0.57147	22.54459	0.000147	Ubl4a	0.596138	8.855157	0.04382				
Atp5md	-0.71249	11.84233	0.020699	Dnph1	-0.57233	9.603314	0.04017	Eif3d	0.595986	12.32515	0.011438				
Atp5mf	-0.71775	18.34164	0.001354	Mrip52	-0.5732	11.58095	0.018472	Oaz1	0.594527	35.69244	2.98E-07				
Nduif5	-0.72041	15.18071	0.005198	Rpl27	-0.58063	20.16535	0.000435	Tevrd1	0.594497	10.31838	0.025214				
Cox6c	-0.74218	25.21749	5.80E-05	Ppp2r2b	-0.58075	13.63435	0.007796	Arid5b	0.594313	9.447919	0.035141				
Uqcrc	-0.75863	15.79644	0.003956	Pls1	-0.58702	11.10343	0.0225	Chmp6	0.594056	9.986879	0.028805				
Atp5f1e	-0.76036	26.30417	3.79E-05	Clasp2	-0.59229	9.043105	0.049911	Tubb2a	0.59403	9.295122	0.037341				
Rps26	-0.78515	39.07493	1.06E-07	Cmb1	-0.59367	8.801229	0.037168	Smarrc21	0.593817	9.609061	0.033038				
Cox7c	-0.79481	18.34086	0.001354	Ndufs6	-0.59413	14.74851	0.004977	Raly	0.593515	17.93402	0.000981				
Crip1	-0.81896	33.35985	1.37E-06	Snrpe	-0.59576	16.3741	0.002357	Sar1b	0.5931	11.04365	0.019548				
Uap1	-0.8439	10.8672	0.030763	Ubl5	-0.59677	11.82582	0.016532	Banf1	0.592977	9.776147	0.031032				
Uqcrc10	-0.86154	28.79057	1.20E-05	Tpd52	-0.59788	10.72292	0.026025	C1s	0.592761	8.710036	0.046438				
Tnxa-ps1	-0.8786	14.79669	0.006171	Cdk5	-0.59898	10.4893	0.028068	Rela	0.591771	9.793291	0.030837				
Snrpg	-0.88273	26.25806	3.84E-05	Atp5mg	-0.59913	24.77644	5.52E-05	Uf1	0.591	9.378731	0.036028				
Rpl36a	-0.88648	34.79165	7.92E-07	Dnajc12	-0.60016	10.51776	0.027862	Nuf2	0.590986	12.18332	0.012197				
S100a6	-0.89598	22.46493	0.000209	Ap2a1	-0.60032	9.518723	0.041129	Arpc1b	0.59075	14.51957	0.004453				
LOC100909539	-0.90757	16.31623	0.003145	Synj1	-0.6017	10.24282	0.031074	Ddx50	0.590021	9.663607	0.032396				
Tomm7	-0.91163	19.16156	0.000954	Cox6b1	-0.60407	19.90415	0.000489	Ogfr	0.58949	8.771647	0.045586				
Abca8a	-0.92832	16.22369	0.003285	Anxa13	-0.60425	13.70053	0.007571	Sh2b3	0.588929	9.907672	0.029469				
Dcn	-0.93732	11.78717	0.021147	RGD1309350	-0.60577	12.68741	0.01712	Map3k12	0.588314	10.74003	0.021833				
Rpl37a	-0.98857	78.23692	1.05E-15												

Nop10	-0.65478	13.05764	0.010151	Gpi	0.580446	11.24869	0.018083
Scn3b	-0.65755	9.444701	0.0424	Rpia	0.579311	9.316612	0.037009
Wdr47	-0.65973	18.27728	0.00103	Hmmr	0.579308	12.11497	0.012526
Gas5	-0.65977	13.65482	0.007734	Eif2b2	0.57849	9.452161	0.03511
Fgfr3	-0.65989	12.96607	0.0105	Txndc15	0.578134	10.15758	0.026922
Get4	-0.66156	12.10973	0.014651	Rnpep	0.577524	9.06599	0.040626
Atp2c1	-0.66202	9.550024	0.040827	Nsun2	0.577337	9.176046	0.039183
Plac9	-0.66288	11.34845	0.020442	Rhoc	0.577219	17.0889	0.001424
Slc34a2	-0.66963	12.21578	0.01416	Tpm4	0.57648	15.32221	0.003098
Sec61b	-0.67059	20.22977	0.000423	Ahsa1	0.575908	9.217529	0.038526
Cox7a2	-0.6706	24.56056	6.04E-05	Aldh7a1	0.575288	9.503761	0.034283
Rpl22	-0.67341	27.48521	1.60E-05	Grpel1	0.575248	11.4005	0.017236
Elob	-0.67376	30.32021	4.17E-06	Birc6	0.574677	9.031897	0.04105
Son	-0.67377	17.32869	0.001556	LOC690617	0.57442	10.49915	0.02373
Zmiz1	-0.67528	10.3733	0.029426	Arfrp1	0.57421	8.766746	0.045635
Lgals2	-0.67572	13.26495	0.009272	Nfkbi	0.574201	9.656613	0.032396
Micos10	-0.67772	16.35819	0.002366	Galnt2	0.573772	9.421462	0.035499
Pdzk1ip1	-0.67802	11.57323	0.018494	Dbn1	0.573753	8.533506	0.049349
Ctsb	-0.68014	14.19333	0.006175	Ptpn11	0.573306	8.651737	0.047283
Balap3	-0.6838	11.09957	0.0225	Cdc42se1	0.572844	9.986601	0.041913
Silr	-0.68402	13.7914	0.007257	Ppp1ca	0.572631	14.60184	0.004287
F7	-0.6856	15.92439	0.002857	Rpp30	0.572505	9.859052	0.030027
Tcea9	-0.689	11.93175	0.015807	Grpel2	0.571722	12.49416	0.010588
Scd2	-0.68989	11.21228	0.021699	Psmid14	0.571489	9.226716	0.038386
Mmp9	-0.692	19.55608	0.000578	Nap1l1	0.571171	13.70324	0.006298
Serp1	-0.69372	12.42559	0.013047	Rhoq	0.570804	9.54536	0.033758
Sec24d	-0.6947	12.15956	0.014372	Pin1	0.570385	10.94281	0.020212
Ndufb4	-0.69691	23.36569	0.000102	Psmid2	0.569971	9.847326	0.030173
Rpl22l1	-0.69785	20.75798	0.000333	RGD1563365	0.569236	9.93984	0.029138
Ndufa8	-0.70115	10.55789	0.02765	Rfc2	0.568996	9.45222	0.03511
Esrp1	-0.70573	15.40016	0.003672	Sic1a3	0.568667	14.0296	0.005503
Cd164	-0.70735	13.89987	0.006997	Decr1	0.567905	8.717013	0.046438
Rpl36al	-0.70744	23.65724	9.02E-05	Rala	0.566796	8.978672	0.04204
Serf2	-0.70814	38.74366	8.29E-08	Knstrn	0.566578	9.381057	0.036028
Timm8b	-0.71136	16.48466	0.002249	Igfbp4	0.566211	11.02613	0.019585
Mpp6	-0.72249	11.42547	0.019747	Ufc1	0.565807	12.33892	0.011404
Rnf208	-0.72405	14.60782	0.005268	Ppp1r37	0.565791	8.699917	0.046454
Alg2	-0.72433	11.8719	0.016206	Fnta	0.56539	9.645082	0.032539
Pgm5	-0.72473	10.31581	0.030122	Ripk2	0.565327	10.69462	0.022168
Rpl31	-0.72878	28.54193	9.60E-06	Aida	0.565321	8.700338	0.046454
Cdh1	-0.73266	9.610541	0.040082	Hipk1	0.564357	8.997142	0.041782
Ppp2r2d	-0.73797	13.802	0.007238	Ebag9	0.563945	9.090518	0.040573
Ddah1	-0.7389	17.39292	0.001511	Fbxo27	0.563567	9.086138	0.040573
Ndrg4	-0.74055	19.52606	0.000584	Glrx5	0.563213	11.35461	0.017456
Emb	-0.74433	9.721561	0.03831	Furin	0.562705	8.525329	0.04951
Gnas	-0.74711	22.34665	0.000161	Oaz2	0.561843	9.976444	0.028833
Epm2aip1	-0.74943	12.69846	0.011712	Nsmce2	0.561507	8.96482	0.042248
Ucp2	-0.75293	9.856075	0.03645	Cltc	0.560421	9.929749	0.029233
Golga4	-0.75525	12.48289	0.012719	Cacna1c	0.559946	9.971642	0.028863
Afdn	-0.75737	14.77956	0.004912	Gmpr	0.55987	9.361904	0.036258
Ap3s1	-0.75753	12.99714	0.010367	Triobp	0.558975	8.737903	0.046193
Ivns1labp	-0.75799	13.34983	0.000894	Dust11	0.557865	10.56335	0.023222
Lrp11	-0.76033	10.96587	0.023611	Abcg3l4	0.557844	9.98369	0.02881
Nig2	-0.76657	11.0578	0.022811	Ndufv2	0.557786	12.65092	0.009962
Fos	-0.77255	11.57975	0.018472	Mrps35	0.557084	9.551391	0.03372
Tes	-0.77366	11.10613	0.0225	Smyd2	0.557084	9.87667	0.029789
Dynl12	-0.77767	14.13583	0.006287	Pnn	0.557061	11.60829	0.015731
Fosb	-0.77827	10.56216	0.027642	Psmb3	0.556868	17.78855	0.001036
Stmn3	-0.79149	14.48927	0.005536	Psmb7	0.556607	8.764731	0.045635
Pcbd1	-0.80194	11.88348	0.016144	Crim1	0.556287	9.364278	0.036258
Ndrg1	-0.80299	11.66187	0.017799	Grn	0.556016	9.586269	0.033352
Cox7b	-0.80467	25.45504	4.06E-05	Mrpl38	0.555694	11.16986	0.018578
Hnflb	-0.80893	16.8839	0.001903	Mettl23	0.555593	10.5766	0.023145
Tmem123	-0.81013	10.2644	0.030795	Prkar2b	0.554927	11.02207	0.019592
S100a11	-0.81134	17.7981	0.001269	Lman1	0.554318	10.39301	0.024784
Angptl1	-0.81477	15.39749	0.003672	Bpnt1	0.553372	8.50585	0.049922
Klf6	-0.81854	11.52613	0.018924	Ppp4r3b	0.553234	8.62733	0.047802
Chuc1	-0.81877	18.72445	0.000839	Poi2m	0.551465	11.20314	0.018387
Spint2	-0.82273	9.07256	0.049493	Cd59	0.551317	11.07154	0.019292
Rpl35al1	-0.82674	57.76202	8.97E-12	Mxd3	0.550786	14.53098	0.004438
Pclo	-0.83338	10.02633	0.034325	Acbd6	0.550632	8.665606	0.047042
Robo2	-0.84259	15.4895	0.003543	Prxl2a	0.549892	9.979603	0.028828
Mrps21	-0.85116	23.13675	0.000113	Csk	0.549812	9.067746	0.040626
Ptprf	-0.85662	12.68666	0.011712	Stip1	0.549395	8.875711	0.043704
Tspan7	-0.861	13.86477	0.007084	Dnaj1	0.548907	11.92468	0.013667
Sec62	-0.86388	24.36322	6.50E-05	Fkbp8	0.547333	10.53817	0.023347
Rab25	-0.87783	14.45677	0.005599	Stub1	0.547044	10.61483	0.02287
Kif12	-0.87825	12.75379	0.011547	Naca	0.545191	42.86658	8.84E-09
Tmem206	-0.88072	10.38589	0.029283	Got1	0.544864	8.55626	0.048849
Rpl34	-0.89001	65.87052	2.28E-13	Srprb	0.544694	9.253364	0.038042
Ufsp2	-0.89944	20.11938	0.000444	Erf3	0.542403	8.908459	0.043286
Sox9	-0.90254	11.36092	0.020351	Ldb3	0.540735	9.380993	0.036028
Gat2	-0.90339	16.08322	0.002685	Rps6la4	0.540052	8.717171	0.046438
LOC100909539	-0.91261	19.00721	0.000741	Bin1	0.540043	8.709747	0.046438
Tmem256	-0.9127	24.35119	6.50E-05	Psmid8	0.539862	8.575746	0.048496
Cartpt	-0.91449	11.14532	0.022295	Rnps1	0.538943	9.754323	0.031308
Tmem130	-0.91646	13.87283	0.007077	Eif1b	0.538508	9.226836	0.038386
Rps27l	-0.92131	28.90793	8.09E-06	Slamf8	0.538074	11.171	0.018578
Hmgcs1	-0.92355	12.87757	0.010928	Ensa	0.538052	8.933176	0.042816

Naa38	-0.92504	27.97648	1.26E-05	Cd99	0.53722	24.51943	5.24E-05
Ndufa2	-0.92789	32.87427	1.20E-06	Ddrgk1	0.536743	10.95196	0.020158
Pgm1	-0.94165	17.0443	0.001763	Ndufa9	0.536727	9.044901	0.040857
Ndufa5	-0.94547	34.15238	6.85E-07	RT1-T24-4	0.536668	8.945665	0.04258
Ost4	-0.95836	23.29547	0.000105	Pdia6	0.536011	12.34003	0.011404
Ica1	-0.95934	11.03206	0.002308	Csnk1a1	0.535841	9.398887	0.035786
Mtin	-0.95938	25.24692	4.45E-05	Rn2b8	0.535134	20.2514	0.000355
Insr	-0.97517	21.15843	0.000283	Uqcrl1	0.535128	10.15029	0.026954
Acly	-0.98277	15.23747	0.003935	Ccdc25	0.534223	8.713731	0.046438
Rflnb	-0.9927	10.72556	0.026025	Eif3b	0.534063	8.607895	0.048016
Hmg3	-0.99292	17.40216	0.00151	Gmpr2	0.53312	8.572281	0.048496
Alcam	-0.99331	18.27126	0.00103	Las1	0.532477	12.21929	0.012
S100a6	-1.00466	22.85398	0.000129	Il6st	0.53175	9.171684	0.039183
Peg3	-1.00956	16.73561	0.002041	Akr1a1	0.531297	18.10958	0.000914
C1qtnf6	-1.01966	12.62447	0.011979	Ubac1	0.530142	8.576497	0.048496
Cryaa	-1.02009	18.20835	0.001055	Dnaja3	0.530142	8.576495	0.048496
Ramp3	-1.03271	12.76972	0.011481	Ndufa12	0.529862	11.69645	0.015128
Neurod1	-1.04151	13.19587	0.00951	Fus	0.527193	9.681223	0.032238
Smim22	-1.04677	18.50016	0.00093	Arid5a	0.527049	8.576724	0.048496
Eps8l2	-1.05431	32.36726	1.52E-06	Cd63	0.52688	43.04902	8.19E-09
Ndufa4	-1.07928	29.64814	5.67E-06	Foxk2	0.526788	11.89512	0.013819
Uqcrc2	-1.08198	31.81729	1.98E-06	Prox1	0.526629	8.969012	0.042207
Cow6c	-1.08537	68.22031	7.21E-14	Hsp90b1	0.526437	13.43375	0.007118
Scgn	-1.10754	11.09407	0.022517	Akr1b1	0.526139	8.94872	0.042565
Lefty2	-1.10989	17.15108	0.001688	Sl13	0.525162	9.589982	0.033334
Atp5mf	-1.1291	59.44164	4.26E-12	Serb1p	0.523632	12.25727	0.01181
Ddx3	-1.13054	46.17639	2.46E-09	Nduf62	0.522324	10.84863	0.020926
Tm4sf4	-1.13687	24.39835	6.44E-05	Rabac1	0.521194	14.05258	0.005465
Cldn3	-1.14539	16.49303	0.002249	Tyw1	0.518519	9.171436	0.039183
Gja1	-1.14699	21.00593	0.000301	Sgsm2	0.518232	11.43798	0.01696
Ndufb2	-1.14807	49.45523	5.22E-10	Blrc3	0.518155	10.47736	0.023913
Pcsk2	-1.15661	9.791547	0.037168	Reep5	0.517539	11.306	0.017672
Clu	-1.16449	14.6336	0.005236	Lmn1	0.515503	8.59637	0.048261
Snprg	-1.16493	55.74926	2.32E-11	Cdh13	0.515107	8.815522	0.044667
Uqcrc	-1.17036	45.20796	3.74E-09	Rnf187	0.514718	8.812756	0.044678
Anapc13	-1.17696	33.66858	8.40E-07	Tle5	0.513813	12.81532	0.009247
Cop9	-1.18558	35.22848	4.28E-07	Cdip1	0.511918	8.927882	0.042884
Atp1b1	-1.20211	20.30606	0.000414	Gli1	0.510478	10.32838	0.025119
Scg3	-1.20232	11.01004	0.023305	Rab5c	0.510468	11.31843	0.01763
Onecut1	-1.20438	17.89024	0.001214	Mrpl17	0.510402	11.86342	0.014034
Snhg11	-1.20641	11.06482	0.022811	Tal1	0.508934	10.09483	0.027599
Gria2	-1.21058	32.56823	1.39E-06	Fkbp1a	0.50884	11.91628	0.013699
Ucn3	-1.22444	12.82076	0.011233	Bcat1	0.508794	8.77133	0.045586
Ifi2712b	-1.23681	32.87666	1.20E-06	Rhoa	0.508564	11.37919	0.0174
Uqcrl10	-1.23832	74.79398	3.43E-15	Pim1	0.507802	11.37104	0.017412
Alb	-1.24294	12.44194	0.012967	Psmb4	0.505384	12.05364	0.012862
Rpl36a	-1.25671	86.4417	1.22E-17	Ssb	0.505071	8.73857	0.046193
Chga	-1.26183	11.46804	0.019389	Cenpm	0.504956	8.887896	0.043661
Eif2s3y	-1.26857	54.54509	4.08E-11	Commf3	0.504566	8.624129	0.047826
Col27a1	-1.27458	29.94391	5.01E-06	Ndufb10	0.503065	12.10295	0.01258
lyz2	-1.28003	10.48583	0.028068	Cep104	0.50209	11.15134	0.018692
Cdt4	-1.28314	25.71494	3.63E-05	Mpr15	0.501655	8.858113	0.043806
Cst6	-1.28567	15.39499	0.003672	Ppia	0.500408	31.65724	1.89E-06
Ccdc2	-1.28647	16.6879	0.002085	C1r	0.499624	8.571903	0.048496
Lcn2	-1.29588	22.59936	0.000144	Cycs	0.499619	10.74934	0.021762
Atp5f1e	-1.34252	98.22127	3.40E-20	Ilk	0.498656	8.827382	0.044435
Cpe	-1.34669	12.73541	0.011609	Ube2e3	0.497441	8.673094	0.047025
Cox17	-1.35411	45.8125	2.85E-09	Rras	0.497326	9.559138	0.033701
Epcam	-1.36238	19.28837	0.000649	Rrm2	0.497129	13.02709	0.008474
Cox7c	-1.36648	70.51459	2.57E-14	Cops6	0.497025	9.161803	0.039282
Pcsk1	-1.3727	12.10516	0.014651	Cox4i1	0.49656	33.52245	8.44E-07
Rps26	-1.37478	133.2689	9.34E-28	Eif1	0.496062	33.90576	7.00E-07
Sctr	-1.4111	16.4499	0.002279	Slc25a4	0.495544	26.07985	2.59E-05
Atp5me	-1.44506	60.29696	2.84E-12	Nme1	0.494831	8.584053	0.048496
Scg5	-1.44726	12.2227	0.01416	Erh	0.494644	13.60306	0.006576
Krt18	-1.46224	17.11644	0.001712	Pebp1	0.494385	15.87382	0.002443
Resp18	-1.49307	14.27686	0.005986	Calr	0.493584	16.09814	0.002205
MGC105649	-1.4973	11.49716	0.019176	Gsp1	0.493314	13.17541	0.007923
Rpl36	-1.5044	162.0959	5.83E-34	Pde4dip	0.493036	9.405469	0.035708
Rpl37a	-1.512	197.3236	3.16E-41	Psmb2	0.492427	10.41803	0.024536
Tomm7	-1.55015	65.77227	2.30E-13	Rpa1	0.488381	9.509852	0.034232
Rpl41	-1.56211	180.7634	6.51E-38	Cct5	0.488132	10.07108	0.027869
Iapp	-1.56853	19.40702	0.000612	Abtb2	0.487792	12.28777	0.011644
Tf	-1.59531	16.44515	0.002279	Ndufb9	0.487483	16.93967	0.00153
Slc2a2	-1.59768	20.24049	0.000423	Tmem106a	0.486457	16.30037	0.002033
Atp5md	-1.59771	79.32698	4.15E-16	Gtf2f	0.485585	9.577707	0.033459
Scg2	-1.67803	20.95781	0.000305	Etv4	0.485574	9.274096	0.037719
Pyy	-1.67865	25.10975	4.71E-05	Ptx3	0.484642	8.614606	0.047958
Sec61g	-1.69126	72.51188	1.03E-14	Pdia3	0.479479	11.12272	0.018911
Rps27	-1.72109	190.5354	5.75E-40	Gnas	0.47864	11.60365	0.015738
Rps21	-1.77653	150.3284	1.93E-31	Ubb	0.478567	42.45665	1.08E-08
Krt18	-1.80051	29.85001	5.21E-06	Sh3bgr13	0.478096	9.412411	0.035624
Tmem15b2	-1.89658	33.15084	1.06E-06	Lman2	0.477865	8.720586	0.046438
Mmp3	-1.94119	24.59522	5.98E-05	Ska1	0.476679	12.99996	0.008557
Rpl37a-ps1	-1.95289	193.1807	1.90E-40	Nyl12a	0.475352	17.44753	0.001222
Grg	-2.0705	46.1933	2.46E-09	Mtch1	0.474298	9.895337	0.029622
Rps29	-2.07208	330.6009	4.21E-70	Dstn	0.473696	10.34889	0.025007
Rps28	-2.11427	177.7195	2.58E-37	Psm3a1	0.472914	10.62929	0.022772
Spp1	-2.13378	34.44214	6.11E-07	Map1lc3a	0.472767	14.35675	0.004815

Ins2	-2.34436	71.5883	1.57E-14
Ins1	-2.35114	75.53982	2.49E-15
Scgb1c1	-2.89033	35.90839	3.18E-07

Itfg2	0.472327	15.56201	0.002794
Ipp	0.47105	10.0973	0.027599
Ifitm3	0.468458	25.38308	3.52E-05
Ifi27	0.467966	20.17374	0.000368
Ptges3	0.466885	9.436275	0.035273
Edf1	0.466737	12.35101	0.011381
Ywhae	0.465433	10.45394	0.024104
Elf3h	0.461199	11.36658	0.017412
Aus1	0.457023	9.254004	0.038042
Eef1b2	0.456979	14.25909	0.005013
Pbk	0.456356	8.994751	0.041782
Pcdha1	0.455357	11.13391	0.018833
Tax1bp1	0.455159	9.060399	0.040626
Atp6v0c	0.450028	13.77373	0.006097
Kif20a	0.449668	9.058524	0.040626
Tmed9	0.448624	10.85201	0.020926
Gbp4	0.448316	10.64854	0.022623
Slc4a3	0.441149	10.55835	0.023222
Adcy4	0.439329	9.058995	0.040626
Pphln1	0.439327	9.058978	0.040626
Ankrd61	0.438364	14.26517	0.005013
Abcc3	0.438363	14.26516	0.005013
Arpc3	0.434527	8.692654	0.046581
Dynl1	0.431185	15.22184	0.00322
Spca1	0.430542	10.24187	0.025949
Lamp1	0.426196	10.72419	0.021903
Nap1l3	0.422173	9.991068	0.028785
Smurf1	0.420059	9.658469	0.032396
Syp	0.414614	14.39218	0.004738
Lmnb2	0.406758	11.2535	0.018072
Lipg	0.406198	10.24023	0.025949
Fth1	0.405935	25.85156	2.88E-05
Map3k6	0.403582	12.96833	0.008654
Gnai2	0.401973	12.6503	0.009962
Sptbn1	0.40026	8.666587	0.047042
Clic4	0.397458	11.02891	0.019585
Cenpu	0.395947	11.02634	0.019585
Rarres2	0.39388	14.6163	0.004277
RT1-CE4	0.390483	10.7537	0.02175
Ctut1	0.388213	8.861113	0.043791
Nup93	0.388213	8.861111	0.043791
Gmfb	0.388212	8.861107	0.043791
Lrp3	0.38821	8.861095	0.043791
Eef1d	0.380221	10.01485	0.028596
Slc25a3	0.372585	10.41347	0.024555
Atp5po	0.371184	10.56762	0.023217
Trim21	0.36794	11.6715	0.0153
Eef2	0.363834	10.35971	0.024902
Mrfap1	0.358052	9.165549	0.039255
Kazn	0.357266	10.77369	0.021594
Prdx1	0.356264	12.07934	0.012713
Cenpf	0.339313	10.80631	0.021294
Slc35a2b	0.333897	10.36173	0.024902
Pgm2l1	0.331397	10.37466	0.024784
Zfp772	0.331397	10.37466	0.024784
Mtmr1	0.331397	10.37466	0.024784
Tmem8a	0.331395	10.37465	0.024784
Smyd3	0.324989	9.671239	0.032318
Ckap2	0.320491	9.958297	0.028982
Rpsa	0.312816	11.82033	0.014242
Mgl1	0.312143	9.435779	0.035273
Rpl7	0.311706	15.20783	0.003234
Ttk	0.307606	9.835742	0.030317
Eef1a1	0.306948	16.39882	0.001936
H3f3b	0.306787	14.82257	0.003899
Sparc	0.298718	12.33397	0.011409
Dcx	0.294625	9.708262	0.031183
Zfp775	0.293902	9.077822	0.040573
Dlgap1	0.293902	9.077821	0.040573
Srr	0.293902	9.077819	0.040573
Cicn7	0.293902	9.077818	0.040573
Gys1	0.293901	9.077817	0.040573
Tmem177	0.293901	9.077817	0.040573
Mre11a	0.293901	9.077816	0.040573
Rps2	0.271676	9.950601	0.029058
Cdc42	0.270044	9.627435	0.032757
Rps3a	0.230511	9.249374	0.038045
Rpl19	0.222271	9.887745	0.029698
Uba52	-0.25867	10.07164	0.027869
Lipogenin	-0.27767	8.879529	0.043704
Wars2	-0.27768	8.879532	0.043704
Rps27a	-0.29109	12.22285	0.012
Slamf9	-0.29265	9.718424	0.031734
Rps8	-0.31195	19.33354	0.000536
Rps20	-0.31927	11.19337	0.018415
Rps19	-0.32189	16.25304	0.002064
Rpl24	-0.3285	13.96056	0.005679
Rpl27a	-0.33265	15.60272	0.002752
Fcgr1a	-0.33473	10.05109	0.028128

Rpl19	-0.3544	17.23716	0.00134
Rps16	-0.35441	17.42527	0.001231
Sparcl1	-0.35507	9.135722	0.039792
Cox8a	-0.35534	13.04688	0.008443
Ppp1r14a	-0.35795	9.77136	0.031066
Rpl32	-0.37735	17.96854	0.00097
Rpl28	-0.38142	18.84511	0.000675
Acox1	-0.38295	9.808888	0.030623
Mgo	-0.38735	15.47445	0.002909
Tnfrfp8l2	-0.3971	13.29937	0.007568
Ptn	-0.39717	10.45704	0.024104
Rps15	-0.40038	16.89084	0.001565
Uqcrb	-0.41571	10.91065	0.020348
Rps23	-0.41754	23.06146	0.000104
Rps24	-0.41846	20.89608	0.00027
Rpl26	-0.4198	28.87208	7.13E-06
Rps13	-0.42406	23.24259	9.54E-05
Exoc1	-0.42832	10.69204	0.022168
Rspo3	-0.43804	11.3677	0.017412
Klra17	-0.44848	13.41437	0.007182
Fau	-0.45178	36.13918	2.48E-07
Tm6b10	-0.46814	39.39923	4.90E-08
Rpl23	-0.47357	34.22921	5.80E-07
Rps27l	-0.48667	8.893589	0.043582
Bnip3l	-0.4893	9.562992	0.033679
Col7a1	-0.49809	9.733883	0.03154
Ndufa2	-0.49858	10.77374	0.021594
Pbx1	-0.50603	8.711107	0.046438
Cd68	-0.52819	14.16793	0.005223
Rps18	-0.53624	31.51618	2.02E-06
Serf2	-0.53694	29.91473	4.30E-06
Tceal1	-0.53797	8.554243	0.048849
Rps25	-0.54006	25.57153	3.28E-05
Rplp1	-0.55708	36.18778	2.45E-07
Elob	-0.56527	28.50534	8.29E-06
Snrpe	-0.56839	18.66944	0.000725
Tm7sf3	-0.56956	9.655896	0.032396
Rab38	-0.57432	11.10242	0.019046
Rpl27	-0.57731	24.3994	5.55E-05
Sem1	-0.5919	22.38412	0.000142
Rps17	-0.59879	28.4648	8.40E-06
Smim11a	-0.60391	9.248118	0.038045
Clec4a3	-0.61473	16.272	0.002057
Tcf7l2	-0.61621	10.23821	0.025949
Ppic	-0.61927	13.03836	0.008443
Ptgfrn	-0.62182	10.15541	0.026922
Gas7	-0.62916	10.38043	0.024784
Crip1	-0.63336	22.58543	0.00013
Ndufb4	-0.63715	23.80144	7.34E-05
Uqcrrq	-0.64351	15.24846	0.003193
Fos	-0.64649	8.610697	0.048002
Rgs10	-0.65051	9.947113	0.029068
Dab2	-0.66028	11.22124	0.018281
Ndufa5	-0.66404	19.79383	0.000436
Rps12	-0.67404	45.66185	2.33E-09
Atp5mf	-0.67733	24.07594	6.41E-05
Dcn	-0.67839	8.629038	0.047802
Rpl30	-0.685	64.1583	3.51E-13
Rpl31	-0.70136	35.96624	2.62E-07
Ddx3	-0.71081	26.63867	2.01E-05
Rpl35	-0.72108	69.85005	2.48E-14
Churc1	-0.72374	17.79924	0.001034
Itm2a	-0.72762	20.47836	0.000325
Smoc2	-0.72863	8.877181	0.043704
Tmem256	-0.75732	18.76714	0.000698
Rpl22l1	-0.7607	32.68572	1.19E-06
Abca8a	-0.77779	15.42836	0.00296
Cop9	-0.79022	17.21678	0.00135
Anapc13	-0.79164	17.90775	0.000991
Angptl1	-0.80172	17.95975	0.000971
Sec62	-0.80253	24.87025	4.51E-05
Elin	-0.80691	9.63367	0.032694
Rps15a	-0.81376	90.39164	1.26E-18
Fbin5	-0.81707	14.67297	0.004174
Rpl22	-0.82856	58.51696	4.42E-12
Rpl34	-0.82958	88.22376	3.23E-18
Cox17	-0.83103	18.19845	0.000883
Snrpg	-0.83456	29.65658	4.87E-06
Atp5md	-0.84033	24.35373	5.65E-05
Mtin	-0.90684	25.44112	3.46E-05
Cox6c	-0.90846	60.17171	2.10E-12
Poa2	-0.91431	21.55875	0.000198
Uqcrl0	-0.94247	50.94987	1.81E-10
Fam180a	-0.95772	16.21085	0.002101
Atp5f1e	-0.96346	64.08947	3.54E-13
Ost4	-1.02042	32.18042	1.50E-06
Atp5me	-1.0413	31.96001	1.65E-06
Rpl35al1	-1.04138	140.7589	2.11E-29
Elf2s3y	-1.04348	44.39775	4.39E-09

Cox7c	-1.11369	54.99083	2.43E-11
Rps26	-1.13018	125.5117	3.81E-26
Gas5	-1.13505	43.04298	8.19E-09
Sl00a6	-1.1626	39.4074	4.90E-08
Plac9	-1.19758	43.46657	6.77E-09
Fcer1g	-1.21699	11.83322	0.014174
Rpl41	-1.22134	155.7213	1.26E-32
Rpl36	-1.26942	181.6788	4.04E-38
LOC100909539	-1.2788	49.48256	3.58E-10
Rpl37a	-1.30837	187.3575	3.49E-39
Rpl36a	-1.30857	123.6997	8.76E-26
Hmcn1	-1.31306	32.83594	1.14E-06
Rps21	-1.32408	106.3068	4.89E-22
C1qc	-1.37525	13.22271	0.007763
Ccl11	-1.38451	9.512635	0.034232
Tomm7	-1.39174	65.34906	2.03E-13
Sec61g	-1.40361	64.61613	2.86E-13
Lyz2	-1.66653	12.54345	0.010382
Rps27	-1.70291	227.5149	8.04E-48
Rps28	-1.70312	162.4668	4.75E-34
Rps29	-1.74411	270.9058	8.37E-57
Rpl37a-ps1	-1.78648	181.8379	4.04E-38
RT1-Db1	-2.02688	9.707409	0.03183
Cd74	-2.08669	9.552343	0.03372

pIC11 vs PBS11

Term	Count	%	P-Value	Benjamini
negative regulation of epithelial cell proliferation	3	37.5	3.40E-04	3.10E-02

KRV11 vs pIC11

Term	Count	%	P-Value	Benjamini
defense response	10	10.9	1.40E-12	9.90E-10
cellular response to interferon-beta	9	9.8	4.60E-12	1.70E-09
response to lipopolysaccharide	14	15.2	8.80E-10	2.10E-07
positive regulation of T cell mediated cytotoxicity	6	6.5	2.60E-08	4.70E-06
defense response to virus	9	9.8	1.90E-07	2.80E-05
chemokine-mediated signaling pathway	7	7.6	3.20E-07	3.90E-05
cellular response to interleukin-1	8	8.7	4.70E-07	4.90E-05
antigen processing and presentation of peptide antigen via MHC class I	6	6.5	8.00E-07	7.20E-05
positive regulation of apoptotic cell clearance	4	4.3	1.10E-06	8.70E-05
cellular response to lipopolysaccharide	9	9.8	1.50E-06	1.10E-04
response to virus	7	7.6	2.80E-06	1.80E-04
immune response	10	10.9	5.80E-06	3.50E-04
cellular response to interferon-gamma	6	6.5	1.10E-05	6.30E-04
cellular response to tumor necrosis factor	7	7.6	4.60E-05	2.30E-03
inflammatory response	9	9.8	9.60E-05	4.60E-03
lymphocyte chemotaxis	4	4.3	1.60E-04	7.10E-03
antigen processing and presentation of endogenous peptide antigen via MHC class I	3	3.3	3.40E-04	1.50E-02
response to interferon-gamma	4	4.3	3.70E-04	1.50E-02
negative regulation of viral genome replication	4	4.3	4.10E-04	1.50E-02
response to type I interferon	3	3.3	4.80E-04	1.70E-02
monocyte chemotaxis	4	4.3	4.90E-04	1.70E-02
protein refolding	3	3.3	1.00E-03	3.20E-02
positive regulation of cAMP metabolic process	3	3.3	1.00E-03	3.20E-02
response to gamma radiation	4	4.3	1.40E-03	4.30E-02
response to mechanical stimulus	5	5.4	1.60E-03	4.70E-02

KRV11 vs PBS11

Term	Count	%	P-Value	Benjamini
inflammatory response	15	17	5.50E-11	4.40E-08
response to lipopolysaccharide	13	14.8	4.30E-09	1.70E-06
cellular response to interleukin-1	9	10.2	1.30E-08	3.60E-06
chemokine-mediated signaling pathway	7	8	2.10E-07	4.20E-05
cellular response to interferon-beta	6	6.8	4.80E-07	6.70E-05
complement activation	5	5.7	5.00E-07	6.70E-05
cellular response to tumor necrosis factor	8	9.1	2.30E-06	2.60E-04
cellular response to interferon-gamma	6	6.8	8.00E-06	8.00E-04
cellular response to lipopolysaccharide	8	9.1	1.00E-05	9.20E-04
defense response	5	5.7	6.40E-05	5.20E-03
lymphocyte chemotaxis	4	4.5	1.30E-04	9.30E-03
positive regulation of apoptotic cell clearance	3	3.4	2.00E-04	1.20E-02
immune response	8	9.1	2.00E-04	1.20E-02
monocyte chemotaxis	4	4.5	4.00E-04	2.30E-02
response to tumor necrosis factor	4	4.5	5.20E-04	2.70E-02
aging	8	9.1	5.40E-04	2.70E-02
protein kinase B signaling	4	4.5	6.10E-04	2.90E-02
response to activity	5	5.7	7.90E-04	3.50E-02
positive regulation of cAMP metabolic process	3	3.4	8.80E-04	3.60E-02
positive regulation of smooth muscle cell migration	4	4.5	8.90E-04	3.60E-02
response to gamma radiation	4	4.5	1.20E-03	4.50E-02

KRV11 vs KRV9

Term	Count	%	P-Value	Benjamini
cellular response to interferon-beta	7	14.3	3.60E-10	1.60E-07
chemokine-mediated signaling pathway	7	14.3	7.60E-09	1.70E-06
defense response to virus	8	16.3	4.00E-08	5.90E-06
defense response	6	12.2	1.60E-07	1.80E-05
cellular response to interleukin-1	7	14.3	2.00E-07	1.80E-05
cellular response to interferon-gamma	6	12.2	5.30E-07	4.00E-05

cellular response to tumor necrosis factor	7	14.3	1.20E-06	8.00E-05
response to lipopolysaccharide	8	16.3	7.70E-06	4.30E-04
inflammatory response	8	16.3	1.10E-05	5.70E-04
lymphocyte chemotaxis	4	8.2	2.50E-05	1.10E-03
response to virus	5	10.2	6.20E-05	2.60E-03
monocyte chemotaxis	4	8.2	7.90E-05	3.00E-03
response to tumor necrosis factor	4	8.2	1.00E-04	3.60E-03
antigen processing and presentation of peptide antigen via MHC class I	4	8.2	1.10E-04	3.60E-03
response to gamma radiation	4	8.2	2.40E-04	7.10E-03
positive regulation of cAMP metabolic process	3	6.1	3.00E-04	8.40E-03
neutrophil chemotaxis	4	8.2	4.70E-04	1.20E-02
positive regulation of cAMP-mediated signaling	3	6.1	6.00E-04	1.50E-02
positive regulation of leukocyte chemotaxis	3	6.1	6.90E-04	1.60E-02
positive regulation of monocyte chemotaxis	3	6.1	1.00E-03	2.30E-02
positive regulation of ERK1 and ERK2 cascade	5	10.2	1.40E-03	3.00E-02
cellular response to ethanol	3	6.1	2.10E-03	4.30E-02

KRV11 vs KRV7

Term	Count	%	P-Value	Benjamini
cellular response to interferon-beta	8	9.8	1.30E-10	9.70E-08
defense response	7	8.5	5.80E-08	2.00E-05
cytoskeleton organization	9	11	8.00E-08	2.00E-05
chemokine-mediated signaling pathway	7	8.5	1.70E-07	3.00E-05
cellular response to interleukin-1	8	9.8	2.20E-07	3.20E-05
microtubule-based process	6	7.3	8.90E-07	1.10E-04
cellular response to interferon-gamma	6	7.3	6.60E-06	6.90E-04
cellular response to tumor necrosis factor	7	8.5	2.40E-05	2.20E-03
response to lipopolysaccharide	9	11	2.80E-05	2.30E-03
positive regulation of monocyte chemotaxis	4	4.9	6.10E-05	4.50E-03
lymphocyte chemotaxis	4	4.9	1.10E-04	7.60E-03
positive regulation of gene expression	9	11	2.00E-04	1.20E-02
defense response to virus	6	7.3	2.30E-04	1.30E-02
inflammatory response	8	9.8	3.00E-04	1.60E-02
monocyte chemotaxis	4	4.9	3.50E-04	1.70E-02
response to virus	5	6.1	4.40E-04	2.00E-02
response to tumor necrosis factor	4	4.9	4.60E-04	2.00E-02
antigen processing and presentation of peptide antigen via MHC class I	4	4.9	5.00E-04	2.10E-02
cellular response to lipopolysaccharide	6	7.3	7.90E-04	2.80E-02
cellular response to fibroblast growth factor stimulus	4	4.9	8.00E-04	2.80E-02
positive regulation of cAMP metabolic process	3	3.7	8.20E-04	2.80E-02
response to gamma radiation	4	4.9	1.00E-03	3.40E-02
response to mechanical stimulus	5	6.1	1.10E-03	3.40E-02
positive regulation of ERK1 and ERK2 cascade	6	7.3	1.30E-03	3.90E-02
positive regulation of cAMP-mediated signaling	3	3.7	1.60E-03	4.80E-02

piC11 vs PBS11	logFC	LR	pAdj	KRV11 vs piC11	logFC	LR	pAdj	KRV11 vs PBS11	logFC	LR	pAdj	KRV11 vs KRV9	logFC	LR	pAdj	KRV11 vs KRV7	logFC	LR	pAdj	KRV9 vs KRV7	logFC	LR	pAdj
Arhgap35	0.776837	15.78204	0.016489	Cxcl10	5.254144	106.2288	3.25E-22	Cxcl10	5.042529	96.4473	1.58E-20	Cxcl10	4.178472	58.10559	1.54E-11	Cxcl10	5.395247	109.8332	7.77E-23	Ubd	2.224287	26.75459	0.000159
Tns3	0.77625	13.69905	0.034026	Ubd	5.084723	118.1876	1.14E-24	Ubd	4.970134	118.7676	3.04E-25	Isg15	3.264241	75.69113	6.16E-15	Isg15	5.195976	120.8376	4.12E-25	LOC100910973	1.631141	22.72865	0.000854
Mybl6l	0.774529	18.67374	0.004793	LOC100910973	4.526468	166.4215	6.09E-35	LOC100910973	4.277889	149.1428	1.11E-31	Ubd	3.00606	31.94643	3.46E-06	LOC100910973	4.190891	144.4011	3.97E-30	LOC100911498	1.18727	24.30537	0.000451
Gpx1	0.755659	13.86439	0.032983	LOC100911498	4.196227	418.0568	7.03E-89	LOC100911498	4.215668	433.0136	3.89E-92	Isg15	2.573232	61.32003	3.60E-12	Isg15	3.809808	95.26048	8.69E-20	B2m	1.042029	52.85404	7.89E-10
Rgs4	0.738451	14.88954	0.022886	Isg15	3.732291	87.04157	3.04E-18	B2m	3.319956	394.9479	3.76E-84	Neur13	2.237641	56.75678	2.89E-11	Cxcl9	3.022901	42.44811	1.17E-08	Tnks	0.930954	18.91999	0.004371
Naga	0.735569	16.06181	0.014885	Cd74	3.20834	70.85215	8.22E-15	Cxcl9	3.078327	55.56358	7.21E-12	Cxcl9	2.228584	20.30185	0.000737	MGC108823	3.020442	112.8323	1.97E-23	Txc3	0.888781	23.77064	0.000542
Nme1	0.727823	17.85422	0.006729	Cxcl9	3.044173	48.70161	3.49E-10	Cd74	2.896229	58.9805	1.37E-12	Cd74	2.231038	43.43365	7.39E-09	Cd74	2.731038	43.43365	7.39E-09	Cttnr1	0.886201	17.62534	0.007573
Pfdn1	0.644687	15.08657	0.021592	MGC108823	2.921842	108.9052	9.26E-23	MGC108823	2.8949	111.0607	1.24E-23	Tap1	2.057055	39.34521	8.67E-12	Tap1	2.704893	88.75528	1.88E-18	RGD1566401	0.876051	16.7732	0.010038
Micos13	0.637679	32.92576	2.50E-05	B2m	2.70289	276.3817	2.51E-58	Isg15	2.887385	58.11841	2.06E-12	Cxcl11	1.915037	59.27897	0.000388	Irf1	2.376802	73.92028	2.62E-15	Dhdds	0.873164	18.87815	0.004371
Rnuf6	0.632296	17.88064	0.006729	Ifi27	2.700594	186.1371	4.02E-39	Psmb8	2.81797	115.4311	1.60E-24	Gbp2	1.843563	32.69605	2.55E-06	Neur13	2.345595	55.56949	2.19E-11	Cat	0.836732	16.16665	0.011795
Dps17	0.627517	30.17061	7.09E-05	Psmb9	2.639988	98.46181	1.24E-20	Psmb9	2.634486	105.0387	2.32E-22	Irf1	1.842511	52.77132	1.74E-10	Psmb8	2.336079	83.22477	2.61E-17	RT1-CE10	0.823135	22.1594	0.001067
Uduf5	0.619232	21.84082	0.001546	Tap1	2.599116	84.36724	1.12E-17	Tap1	2.500127	82.19338	1.60E-17	RT1-CE5	1.724158	71.88711	3.63E-14	Psmb9	2.161621	70.9417	1.12E-14	Dusp8	0.821934	13.75724	0.029126
B2m	0.609251	23.30707	0.000848	Psmb8	2.563598	96.64448	3.01E-20	Stat1	2.421649	79.80575	4.98E-17	Psmb10	1.712019	62.80135	2.12E-12	Stat1	2.123231	60.6999	1.73E-12	MGC108823	0.815175	14.7947	0.020249
Pskh1	0.608713	17.2171	0.008925	Psmb10	2.327978	89.00474	1.26E-18	Serping1	2.383682	95.62853	2.31E-20	Psmb9	1.618686	50.59045	4.53E-10	Cxcl11	2.093599	23.9368	7.21E-05	Cln3	0.805471	15.9245	0.01316
Mrlp154	0.594385	13.69431	0.034026	Stat1	2.205741	63.96938	2.29E-13	Psmb10	2.358258	95.12229	2.94E-20	Stat1	1.600896	39.40659	9.59E-08	Gbp2	2.027642	42.42145	1.17E-08	Psmb8	0.787374	12.69525	0.044232
Rps18	0.589255	33.83975	2.08E-05	RT1-S3	2.203637	71.1537	7.19E-15	Neur13	2.220877	61.31024	4.44E-13	Rtp4	1.569882	41.96109	2.88E-08	Ifi47	1.947809	54.76523	3.23E-11	Zfhx2	0.779461	16.23291	0.011795
Rpl18a	0.572561	27.77149	0.000178	Neur13	2.119888	44.46414	2.66E-09	RT1-CE5	2.063715	82.18014	1.60E-17	Psmb8	1.539378	46.41657	3.33E-09	Ifitm3	1.920575	20.45268	0.000348	Myt1	0.778328	13.78523	0.029126
Atp6v1f	0.567975	20.07513	0.00338	Zbed5	2.103137	187.3732	2.59E-39	RT1-CE10	2.055266	99.1819	4.16E-21	Ifi47	1.507033	32.24606	3.11E-06	Rtp4	1.88668	52.9054	7.81E-11	Ap3d1	0.772704	13.15698	0.037894
Ndufa11	0.567171	16.90548	0.010254	RT1-A1	2.051447	73.39028	1.87E-15	Zbed5	1.986962	171.5774	2.14E-36	Cd74	1.450621	10.93069	0.041328	Psmb10	1.839141	61.33596	1.28E-12	Cdc27	0.757941	14.75879	0.020326
Rpl32	0.556269	43.40217	4.65E-07	RT1-CE5	1.97109	73.37687	2.43E-15	RT1-A1	1.942349	69.76144	7.05E-15	Zbed5	1.418809	124.664	6.72E-25	Serping1	1.817652	57.80733	1.18E-12	Golg4	0.752648	17.17181	0.008853
Citrn	0.533607	26.88579	0.000225	Serping1	1.953593	67.17992	4.82E-14	Irf1	1.940894	53.23969	2.18E-11	Mx2	1.382879	23.43603	0.000167	RT1-CE5	1.806214	62.57746	7.00E-13	Alfmid	0.743201	16.1898	0.011795
Rps25	0.518526	19.41057	0.004076	Rtp4	1.937997	57.17496	6.03E-12	Ifitm3	1.902018	28.32832	3.03E-06	Parp14	1.377982	32.19062	3.11E-06	Oasl2	1.772424	43.627	6.89E-08	Sbds	0.731804	12.34436	0.049558
Rps3	0.510625	20.86938	0.002333	Gbp2	1.922543	40.77713	1.46E-08	Gbp2	1.876598	41.35463	6.23E-09	Ifi27	1.353293	67.38642	2.49E-13	Irgm	1.764599	43.31826	7.71E-09	Nap3k7	0.730313	12.87016	0.040862
Micos10	0.504992	13.84016	0.032983	Ube2i6	1.866049	59.90952	1.55E-12	Cxcl11	1.862652	19.23106	0.000211	RT1-A1	1.324602	34.87044	8.79E-07	Irf7	1.721081	35.69413	2.77E-07	Birc6	0.726043	13.79392	0.029126
Rpl9	0.502899	36.26267	9.00E-06	Parp14	1.864282	53.9428	2.84E-11	Ifi47	1.781254	46.72328	4.98E-10	Irgm	1.316907	26.94042	3.39E-05	Oasl2	1.311533	116.9968	2.62E-24	RGD1566099	0.724834	16.39746	0.011508
Rpl11	0.500619	30.11382	7.09E-05	Psmel	1.845067	129.9895	3.45E-27	Psmel	1.760453	128.3707	2.97E-27	Oasl2	1.311533	12.35974	0.00028	RT1-Da	1.643293	34.04258	6.20E-07	Tri1	0.723569	16.97829	0.009435
Ndufb8	0.500281	13.37348	0.039767	Psm2e	1.842443	80.68686	6.85E-17	Manf	1.732225	69.6468	7.40E-15	Irf7	1.304062	22.02617	0.000326	RT1-Da	1.643293	34.04258	6.20E-07	LOC100362110	0.707026	20.856	0.001942
Cish	0.491472	12.9139	0.047958	Cxcl11	1.816837	15.52775	0.001863	Oasl2	1.713755	45.87592	7.51E-10	Pheta2	1.300965	45.56786	4.98E-09	RT1-A1	1.622566	44.08211	5.55E-09	Peg3	0.692289	29.66373	4.03E-05
Rps16	0.489195	22.37843	0.001298	Ifi47	1.814028	47.49721	6.31E-10	Isg20	1.679364	54.91009	9.77E-12	RT1-S3	1.293366	27.5266	2.70E-05	Parp9	1.547036	38.16391	8.78E-08	Sf3b6	0.690021	14.57645	0.021417
Rplp0	0.484744	25.64632	0.000389	Irf1	1.792597	42.85308	5.63E-09	Rtp4	1.677771	45.58939	8.50E-10	Stat2	1.279359	36.57582	3.80E-07	Ube2i6	1.536462	41.35585	1.95E-08	Slc9a1	0.689564	14.16136	0.024895
Rpl29	0.478767	22.03584	0.00147	Irf7	1.774361	42.2277	7.49E-09	Ifi27	1.661466	89.08043	5.41E-19	Lgals3bp	1.254142	40.67677	5.13E-08	Parp14	1.505402	33.20602	9.06E-07	Prrc2c	0.688181	33.63582	6.63E-06
Ddx5	0.478671	15.07338	0.021592	Oasl2	1.773446	46.11002	1.23E-09	RT1-A2	1.646259	62.99711	1.95E-13	Serping1	1.235018	34.85714	8.79E-07	Mx2	1.471546	24.73783	4.92E-05	Kcnk16	0.681428	15.54539	0.014499
Rpl21	0.475297	16.49868	0.012397	Ifitm3	1.722641	14.76451	0.002625	Psm2e	1.636374	71.09411	3.69E-15	Manf	1.209663	41.57305	3.42E-08	Isg20	1.456573	39.45325	4.83E-08	Pum1	0.674221	12.56923	0.046299
Rpl13a	0.464973	18.90812	0.004619	Parp9	1.698633	49.37263	2.53E-10	Parp14	1.623941	42.29959	4.08E-09	Ifi3	1.197504	17.88634	0.002196	RT1-S3	1.430624	30.94997	2.58E-06	Ranbp2	0.668759	13.06496	0.038866
Rpl14	0.460064	23.50389	0.000813	Manf	1.661224	62.77818	4.00E-13	Irgm	1.607493	37.82307	3.43E-08	Parp9	1.174433	25.17318	7.30E-05	Tmem140	1.372676	34.87502	4.13E-07	Pcm1	0.66233	13.11305	0.038331
Tmem10	0.454901	19.49792	0.004076	Isg20	1.652506	49.89909	2.00E-10	RT1-Da	1.58624	39.80622	1.31E-08	Isg20	1.172804	33.27379	1.94E-06	Pheta2	1.311994	39.54253	4.68E-08	Cdk2ap1	0.662236	19.26027	0.003795
Rps11	0.453285	15.19639	0.021073	RT1-CE10	1.620377	63.83051	2.42E-13	Irf7	1.536244	31.17339	7.90E-07	Usp18	1.127511	19.19438	0.001218	Stat2	1.311294	32.55665	1.22E-06	Ap2d1	0.639977	14.16505	0.024895
Eef1b2	0.4466	14.2795	0.02886	Irgm	1.617894	37.48099	7.33E-08	Tapbp	1.52318	42.55312	3.64E-09	RT1-Da	1.108622	13.88403	0.012688	Tapbp	1.307535	31.75775	1.78E-06	Mbn12	0.61553	18.42518	0.005244
Rpl35	0.446257	25.27825	0.000432	Pheta2	1.606466	57.01161	6.46E-12	Pheta2	1.475843	50.29639	8.90E-11	Ube2i6	1.090867	26.1438	4.81E-05	Irf7	1.295941	22.3882	0.000151	Ppp1r9a	0.602893	12.93033	0.040339
Rps19	0.44581	18.66165	0.004793	Tapbp	1.601833	45.33936	2.58E-09	Bst2	1.460114	36.36256	6.78E-08	Tmem140	1.080394	27.37866	2.78E-05	Isg2	1.281705	25.43948	3.56E-05	Anapc10	0.602893	12.93033	0.040339
Rps3a	0.445486	24.46163	0.000565	Bst2	1.598868	41.50289	1.05E-08	Igtp	1.434387	38.309	2.69E-08	Apol9a	1.073923	18.8887	0.000342	Bt2	1.24256	24.70672	4.96E-05	Calr	0.601726	28.58943	7.02E-05
Rps23	0.44522	27.08656	0.000225	RT1-Da	1.588739	32.62208	7.20E-07	Rgs4	1.410067	60.56724	6.37E-13	Igtp	1.041537	18.42013	0.001732	Manf	1.237034	39.81416	6.13E-08	Pja2	0.592418	14.16416	0.024895
Hadh	0.432198	14.07876	0.030504	Mx2	1.52047	29.43829	3.14E-06	Rn18															

KRV11 vs piC11	logFC	LR	pAdj	KRV11 vs PBS11	logFC	LR	pAdj	KRV11 vs KRV9	logFC	LR	pAdj	KRV11 vs KRV7	logFC	LR	pAdj	KRV9 vs KRV7	logFC	LR	pAdj
LOC100911498	4.17161	1112.529	2.34E-240	LOC100911498	4.284281	866.3326	7.52E-187	Isg15	3.077752	148.7477	7.38E-31	LOC100910973	3.414081	242.2453	1.19E-51	LOC100911498	1.079119	29.72949	9.83E-06
LOC100910973	3.732556	260.6064	7.90E-56	LOC100910973	4.117291	249.657	1.36E-53	Ubd	2.849657	35.26156	3.40E-07	Ubd	3.411371	96.90714	1.48E-20	LOC100910973	0.8229	24.46771	0.000120664
Isg15	3.428065	174.9953	2.04E-37	B2m	3.209209	713.6557	8.84E-154	LOC100910973	2.600049	136.7624	2.20E-28	MGC108823	3.034794	184.4998	2.46E-39	Gadd45g	0.756164	51.80837	2.88E-10
Ubd	3.381684	95.62902	1.92E-20	Ubd	3.207043	76.92539	1.73E-16	MGC108823	2.435539	90.00061	1.12E-18	Isg15	2.855353	116.8948	8.49E-25	Cxcl10	0.755676	15.37858	0.006051852
MGC108823	2.994057	180.0022	1.81E-38	MGC108823	2.843669	140.9477	2.80E-30	Tap1	2.245471	113.5058	1.46E-23	Tap1	2.658289	170.1809	2.81E-36	LOC100362110	0.724946	46.06186	4.31E-09
Ifi27	2.736458	168.5016	5.05E-36	Psmb8	2.484401	148.6349	6.23E-32	Neur13	1.761018	52.03631	1.14E-10	Psmb9	2.146545	128.3432	2.94E-27	Myl6l	0.722362	60.75689	4.29E-12
Tap1	2.553426	159.2761	4.82E-34	Psmb9	2.395978	132.8196	1.56E-28	Stat1	1.752581	74.06418	2.76E-15	Psmb8	2.063688	128.0862	3.17E-27	Klf9	0.689286	24.21706	0.000134849
Stat1	2.390982	135.8393	5.07E-29	Tap1	2.386271	122.1312	3.13E-26	Irgm	1.745077	90.99067	7.11E-19	Stat1	2.047283	96.61032	1.66E-20	Pclrf	0.688452	19.80382	0.000958447
Psmb9	2.293814	141.3693	3.26E-30	Isg15	2.238449	67.7394	1.53E-14	Ifi47	1.743314	77.52869	4.94E-16	Irgm	1.987072	111.5615	1.14E-23	Abcd3	0.671669	24.89274	9.91E-05
Psmb8	2.242515	145.8567	3.65E-31	Stat1	2.151774	96.40923	1.13E-20	Psmb8	1.679446	93.9824	2.00E-19	Neur13	1.981089	92.23103	1.35E-19	Cadps	0.648302	19.28829	0.001219144
Irgm	2.201748	138.7343	1.20E-29	Irgm	2.121227	111.3334	6.72E-24	Psmb9	1.587234	78.28537	3.48E-16	Ifi47	1.912522	101.0707	1.95E-21	Dusp8	0.644624	21.8492	0.000400869
B2m	2.075568	456.3204	4.88E-98	RT1-CE5	2.06708	129.4123	8.32E-28	RT1-CE5	1.577113	92.76635	3.51E-19	LOC100911498	1.905263	226.2719	3.11E-48	MGC108823	0.62958	15.73815	0.005507421
RT1-CE5	2.045621	142.7318	1.72E-30	RT1-A1	1.87528	116.1443	6.09E-25	Gbp2	1.551433	49.49409	3.95E-10	Irf1	1.901115	101.9092	1.30E-21	Nudt4	0.627992	41.69567	3.44E-08
Zbed5	2.011741	348.6798	9.23E-75	Ifi47	1.85107	86.54335	1.52E-18	Irf1	1.518963	65.97106	1.26E-13	Gbp2	1.730612	82.70094	1.51E-17	Ring1	0.605307	18.39184	0.0018442
RT1-S3	1.944327	114.5369	1.67E-24	Neur13	1.811327	71.46661	2.55E-15	Mx2	1.469704	62.35722	7.73E-13	Cxcl10	1.723775	36.821	7.73E-08	Tmx4	0.603387	24.03882	0.0001459
Neur13	1.904459	81.73948	1.78E-17	Irf1	1.795881	82.66432	1.01E-17	Rtp4	1.370566	58.55504	4.76E-12	RT1-CE5	1.715562	105.0961	2.78E-22	Usp9x	0.602776	30.37714	7.43E-06
Ifi47	1.811847	89.28817	4.41E-19	Zbed5	1.676278	225.4048	1.94E-48	Oasl2	1.366706	58.69603	4.53E-12	Cd74	1.621024	29.52156	2.73E-06	Ubd	0.598047	13.51636	0.012782432
Irf1	1.754364	88.81894	5.53E-19	Psmb10	1.65661	88.54235	5.60E-19	Ifi27	1.349126	49.21322	4.41E-10	Igtg	1.451766	56.82883	4.76E-12	Mcl1	0.594447	16.26567	0.004373554
Cd74	1.739114	36.84225	5.71E-08	RT1-A2	1.64933	92.6025	7.42E-20	Psmb10	1.297063	69.35158	2.59E-14	Rtp4	1.409877	68.80093	1.33E-14	Cdv3	0.594161	18.08616	0.002018449
Gbp2	1.68907	80.6951	2.90E-17	Cd74	1.625724	30.5474	1.06E-06	Pheta2	1.267331	67.49405	5.99E-14	Psmb10	1.390806	79.32976	7.97E-17	Peg3	0.588554	54.38175	8.47E-11
Manf	1.626766	133.3404	1.75E-28	Il18bp	1.591298	77.73182	1.16E-16	Parp9	1.228095	46.65841	1.47E-09	Tapbp	1.381287	67.05808	3.08E-14	Psmb9	0.569315	14.81266	0.007525046
Cxcl10	1.618345	22.83368	4.62E-05	Cxcl10	1.589186	29.323	1.88E-06	Tapbp	1.206464	52.25393	1.04E-10	Oasl2	1.367523	60.51799	7.64E-13	Smarrc1	0.569308	17.71638	0.002295812
Mx2	1.572048	76.55559	2.31E-16	Gbp2	1.57803	63.76924	1.09E-13	Zbed5	1.198353	154.4809	5.15E-32	Mx2	1.362422	51.53975	6.44E-11	Tomrn70	0.566605	15.02239	0.00700895
Pheta2	1.570235	102.6912	5.72E-22	Serping1	1.570975	104.8478	1.69E-22	Cd74	1.165486	13.6759	0.009182609	Abcd3	1.251201	71.15215	4.36E-15	Ntm	0.563599	14.53895	0.006851212
Psmb10	1.564933	93.19473	6.50E-20	Ifi27	1.568256	49.41788	1.21E-10	Prss1	1.165147	40.92896	2.18E-08	Parp9	1.224792	45.62745	1.11E-09	Pdcd6ip	0.560619	15.1087	0.000581852
RT1-A1	1.552861	81.49836	1.99E-17	RT1-CE10	1.521798	69.30791	7.09E-15	RT1-A1	1.156995	46.09296	1.91E-09	Tmem140	1.179653	61.0922	5.82E-13	Shprh	0.558223	16.39236	0.004126956
Ube2l6	1.541021	89.48592	4.08E-19	Manf	1.475663	94.76771	2.54E-20	RT1-S3	1.144281	45.68263	2.25E-09	Parp14	1.176244	48.81598	2.37E-10	Trpc4ap	0.556459	14.41316	0.00888174
Oasl2	1.497323	83.82093	6.48E-18	Igfbp2	1.444673	43.03122	2.72E-09	Parp14	1.12756	44.89949	3.26E-09	RT1-S3	1.164077	43.50692	3.06E-09	Ddx1	0.554529	17.78393	0.002233319
Parp9	1.425065	65.05951	6.48E-14	Psmc1	1.4332	168.0592	4.42E-36	Igtg	1.113875	31.72402	1.83E-06	MGC105567	1.107176	51.91447	5.42E-11	Vegfa	0.549064	18.163	0.001972039
Rtp4	1.412895	70.60843	4.18E-15	Oasl2	1.390154	63.96475	1.01E-13	Usp18	1.088462	35.73876	2.75E-07	RGD1309362	1.106694	40.37427	1.34E-08	Tmem168	0.542392	19.03688	0.001377529
Psmc1	1.367103	174.7538	2.24E-37	Pla2g16	1.351829	60.70661	4.97E-13	Usp18	1.079374	36.17773	2.24E-07	Usp18	1.100645	60.064	9.54E-13	Cdcd184	0.540373	18.29007	0.001893749
Hist2h2ab	1.361373	81.80886	1.74E-17	Tapbp	1.351557	56.43138	4.03E-12	Phf11	1.053108	32.08771	1.55E-06	Il18bp	1.091403	45.45447	1.20E-09	Hipk2	0.539183	13.71222	0.011611424
Hspa1a	1.350394	43.91727	1.92E-09	Tmem140	1.339521	67.97963	1.37E-14	Irf7	1.023068	35.63644	2.84E-07	Manf	1.081885	64.58296	1.02E-13	Hnrnpu	0.532376	21.29547	0.000522458
Il18bp	1.292218	58.34435	1.71E-12	Rn18s	1.338831	191.0113	4.00E-41	Pkm	0.998929	47.00515	1.29E-09	Pdgfra	1.0717	44.79536	1.64E-09	Kidins220	0.529908	14.23611	0.009474091
Serping1	1.289689	85.73084	2.52E-18	Isg20	1.28534	76.69215	1.93E-16	Ccl5	0.995596	10.54836	0.034027059	Serping1	1.056508	62.73	2.58E-13	Sptbn1	0.529119	19.95005	0.000924483
Tapbp	1.285187	56.23809	4.69E-12	Inpp1	1.238471	53.85735	1.41E-11	Pdgfra	0.983125	37.27278	1.34E-07	Usp18	1.02823	29.69615	2.51E-06	Ubc	0.528588	32.6397	2.55E-06
Igtg	1.256963	42.56404	3.75E-09	Igtg	1.209413	36.02163	7.91E-08	Hist2h2ab	0.965272	43.6093	6.08E-09	Actb	1.015691	241.8237	1.36E-51	Cd59	0.526849	35.12578	8.11E-07
Usp18	1.256381	49.42924	1.34E-10	Rn45s	1.208997	223.5501	4.79E-48	Tmem140	0.954446	43.45888	6.45E-09	Psmc1	1.007066	113.1326	5.27E-24	Klf13	0.525532	15.57417	0.005690881
Pkm	1.24705	69.61036	6.88E-15	Hist2h2ab	1.190085	56.40663	4.06E-12	Manf	0.933027	55.618	2.03E-11	Pheta2	1.004618	42.75785	4.34E-09	Prrc2c	0.520878	35.64779	6.50E-07
Isg20	1.203088	81.26805	2.19E-17	Rbp4	1.186935	181.2029	6.48E-39	Psmc1	0.905883	92.49724	3.64E-19	Zbed5	0.9964	109.7099	2.77E-23	Chmp4c	0.516983	14.46892	0.00868889
Tmem140	1.197448	63.34347	1.51E-13	Fosb	1.185957	34.02712	2.06E-07	MGC105567	0.905437	27.6952	1.29E-05	RT1-A1	0.982567	35.18789	1.72E-07	Rhoa	0.516543	20.7096	0.00066257
Prss1	1.175473	47.99875	2.69E-10	Pheta2	1.166649	50.69331	6.50E-11	Inpp1	0.899911	33.76352	6.78E-07	ApoH	0.974564	31.08385	1.28E-06	Hspa4	0.514885	15.25069	0.006321535
Mrps28	1.168005	56.09226	5.01E-12	Rtp4	1.159341	38.48856	2.46E-08	Stat2	0.886208	29.06803	6.65E-06	Inpp1	0.964757	38.53646	3.37E-08	LOC303448	0.513896	13.1214	0.014969994
Psmc2	1.165846	71.41416	2.88E-15	Ifi27l2b	1.154268	52.49224	2.69E-11	Cope	0.868842	30.28428	3.71E-06	Isg20	0.960775	56.1718	6.59E-12	Jmjcd6	0.512846	13.46914	0.013000101
Wnt4	1.142036	81.38486	2.09E-17	RT1-S3	1.146041	37.24782	4.42E-08	Ifi27l2b	0.862289	37.04515	1.49E-07	Cope	0.956738	37.32112	6.08E-08	Cish	0.511636	13.28684	0.014023862
RGD1309362	1.140446	51.40858	5.02E-11	Elf6	1.123544	70.34615	4.28E-15	Ube2l6	0.859756	32.64543	1.17E-06	Stat2	0.955185	37.40653	5.85E-08	Immt	0.50905	12.63029	0.018535325
Psmc7	1.130538	156.153	2.26E-33	Ogfr	1.110692	45.72046	7.33E-10	LOC100911498	0.85647	38.02584	9.30E-08	Apol9a	0.928311	37.47758	5.70E-08	Thoc6	0.502465	12.03988	0.023182934
Cope	1.110026	53.65346	1.64E-11	Pdgfra	1.080481	41.86829	4.87E-09	Armc3	0.846008	25.80981	3.12E-05	Bst2	0.91668	35.47618	1.51E-07	Polr2m	0.500991	14.50262	0.008581212
Ctrb1	1.096522	45.9624	7.09E-10	Raly	1.08007	49.2562	1.31E-10	Apol9a	0.835164	26.77053	1.98E-05	Ifi27	0.913142	24.43784	3.07E-05	Mrps155	0.500506	15.44271	0.005958927
Parp14	1.09245	42.51116	3.83E-09	Parp14	1.070661	37.24178	4.42E-08	Trnaulap	0.817333	26.96311	1.81E-05	Pkm	0.909601	40.40073	1.33E-08	Prpf8	0.500123	12.58635	0.0187

KRV11 vs pCi11	logFC	LR	pAdj	KRV11 vs PBS11	logFC	LR	pAdj	KRV11 vs KRV9	logFC	LR	pAdj	KRV11 vs KRV7	logFC	LR	pAdj	KRV9 vs KRV7	logFC	LR	pAdj
Ubd	5.225654	154.2694	9.65E-33	Ubd	5.155396	231.6082	1.80E-49	Cxc11	3.48101	69.13319	3.62E-14	Cxc11	5.256059	200.5205	1.76E-42	Cc15	3.383881	30.31593	1.78E-05
Cxc111	5.197856	152.9148	1.84E-32	Cxc111	5.025404	217.9441	1.41E-46	Ubd	3.370621	65.87302	1.73E-13	Ubd	5.203225	193.8472	3.95E-41	Cc19	2.050463	49.6107	1.74E-09
Cxc10	4.712479	148.7602	1.33E-31	Cxc19	4.465521	221.0286	3.13E-47	Cxc19	2.529294	48.24743	7.28E-10	Cxc19	4.546922	194.3477	3.30E-41	Ubd	1.884927	24.9399	0.00020434
Cxc19	4.563299	152.5279	2.15E-32	LOC100911498	4.452684	1237.928	4.25E-267	Cd74	2.52601	46.18337	1.93E-09	Cxc10	4.177999	115.2107	3.04E-24	Cxc11	1.803878	26.04343	0.000130212
LOC100911498	4.501983	804.6128	6.40E-173	Cxc10	4.359986	194.541	1.32E-41	Cxc10	2.49973	38.29057	8.36E-08	Cc15	4.02341	50.53923	1.26E-10	LOC100911498	1.715649	90.55826	3.62E-18
Cc15	4.08242	38.50504	3.68E-08	Cc15	4.331572	84.35091	4.32E-18	Wars	2.048445	125.1997	7.02E-26	Gbp2	2.560268	153.8825	1.64E-32	Madcam1	1.25757	16.01634	0.008102927
Gbp2	3.349986	167.884	1.16E-35	RT1-CE5	3.082781	973.9029	5.15E-210	Gbp2	1.964914	115.1189	8.22E-24	Wars	2.513657	148.9624	1.85E-31	Gzmm	1.116297	24.53619	0.000244954
RT1-A1	3.168814	418.0247	1.96E-89	Cd74	2.974004	69.67511	5.50E-15	Gbp5	1.9259	76.86094	8.95E-16	Gbp5	2.391358	97.48511	1.52E-20	Gzmk	1.092865	24.2678	0.000273961
Wars	2.958814	152.2905	2.33E-32	RT1-A1	2.838711	544.1026	7.36E-117	Sod2	1.594173	95.29326	1.18E-19	LOC100911498	2.17703	307.8055	9.86E-66	Sst	1.054782	15.55665	0.009399989
RT1-CE5	2.853823	580.6867	1.59E-124	Wars	2.753502	213.7137	1.04E-45	RT1-Da	1.549089	29.25168	6.01E-06	Cd74	1.925577	15.89072	0.001596087	Nkg7	1.053921	25.08605	0.000200559
Tap1	2.822743	219.7752	8.63E-47	Gbp5	2.417276	133.6068	1.56E-28	Il18bp	1.489162	73.69259	4.13E-15	Sod2	1.917323	96.82534	2.02E-20	Gzma	0.871111	16.69116	0.006184576
Gbp5	2.78567	110.0032	3.16E-23	Gbp2	2.249539	150.9326	3.15E-32	Neur13	1.474785	50.85712	2.02E-10	Il18bp	1.894483	96.16443	2.76E-20	Ap1n	0.835149	16.00334	0.008102927
Gcg	2.538599	108.7688	5.31E-23	Tap1	1.98829	192.3138	3.91E-41	RT1-Db1	1.40846	29.10371	6.39E-06	Neur13	1.863542	73.64966	1.65E-15	Cc14	0.752094	16.27632	0.00735513
Il18bp	2.376149	116.916	1.15E-24	Neur13	1.956764	108.085	4.13E-23	Vcam1	1.362668	41.74698	1.63E-08	Tap1	1.808528	145.3928	1.01E-30	Cd3g	0.6963	18.20483	0.003156245
Psmb8	2.297101	283.5205	1.70E-60	Il18bp	1.941059	125.6106	7.73E-27	Ifit3	1.312148	64.38318	3.38E-13	Ifi47	1.707248	84.79464	7.36E-18	Serpinb6b	0.658528	21.92969	0.000727639
Psmb9	2.206389	198.3293	3.61E-42	Irf1	1.910085	157.8604	1.01E-33	RT1-A1	1.280839	172.9233	1.04E-35	Vcam1	1.638022	66.29253	5.69E-14	Cemp2	0.6467	20.59902	0.001259833
Cd74	2.165149	41.1376	0.0002928	RT1-A2	1.898935	391.63	7.43E-84	Isg15	1.277241	67.8736	6.65E-14	Tgm2	1.602495	101.7355	2.12E-21	Ptprcap	0.626882	20.47149	0.001306933
Ifi47	2.063461	95.90624	3.06E-20	RT1-CE14	1.846794	183.7527	2.63E-39	Tap1	1.256324	84.63919	1.99E-17	Irf1	1.556674	98.36391	1.05E-20	Limd2	0.621064	15.53692	0.009405311
RT1-A2	2.062473	307.1132	1.58E-65	Cx3c1	1.793182	117.7257	3.68E-25	Tgm2	1.251914	78.40921	4.26E-16	Gzmm	1.482942	68.27809	5.60E-06	Depp1	0.615466	18.62985	0.002741704
RT1-CE10	2.056129	130.8816	2.79E-66	RT1-CE10	1.697216	339.0951	1.53E-72	Ifi47	1.251778	60.30564	2.25E-12	Cx3c1	1.449853	66.16869	5.99E-14	Apoe	0.615159	17.32222	0.004709546
Sod2	2.019355	77.86696	1.91E-16	Upp1	1.634078	116.788	5.75E-25	Zbed5	1.120174	133.857	1.02E-27	RT1-A1	1.374492	160.2741	6.96E-34	Gbp2	0.61009	15.09348	0.011350494
Irf1	2.004065	110.7643	2.21E-23	Sod2	1.594537	86.27786	1.70E-18	Ifitm1	1.100702	28.34746	9.30E-06	Cd39a1	1.353816	93.05643	1.27E-19	Cd8a	0.575362	12.18502	0.03353229
Neur13	1.945175	66.77261	4.4E-14	Psmb9	1.571172	177.4387	6.12E-38	Upp1	1.085336	62.06316	9.90E-13	Sic27a	1.323686	55.10635	1.36E-11	Fbl	0.574229	17.96057	0.003541683
Lap3	1.944943	171.8066	1.70E-36	RT1-Da	1.564923	31.534	5.56E-07	Cd34	1.079402	86.04512	1.02E-17	Cc14	1.305433	24.92931	2.44E-05	Sic39a1	0.557762	16.34911	0.00724386
Parp14	1.852215	91.36243	2.64E-19	Vcam1	1.56449	70.33551	4.01E-15	Apol9a	1.076007	57.84835	6.91E-12	Parp14	1.305294	66.12601	6.05E-14	Rn28s	0.549747	50.40413	1.33E-09
Zbed5	1.80695	183.0494	6.57E-39	Tgm2	1.558222	110.7347	1.11E-23	Irf1	1.06973	57.11688	9.64E-12	Cd34	1.278505	97.55163	1.50E-20	Tap1	0.54965	15.68712	0.008947022
Chga	1.778524	22.672	6.51E-05	Lap3	1.53303	176.9564	7.98E-38	Sp110	1.059095	59.35179	3.35E-12	Tapbp	1.274603	109.0976	6.19E-23	Hmnpb2	0.535148	14.95191	0.012123504
MGC108823	1.75285	83.39023	1.27E-17	RT1-Db1	1.525235	41.92338	3.87E-09	Manf	1.053565	57.11963	9.64E-12	Igfbp3	1.255068	21.56028	0.000120485	Rn18s	0.534152	43.04588	4.04E-08
Igtp	1.732718	83.7074	1.10E-17	Gzmm	1.519012	27.94117	3.03E-06	Parp14	1.051241	50.46711	2.42E-10	Upp1	1.250184	66.09144	6.08E-14	Cd2	0.526436	22.21266	0.000655813
Cd274	1.690627	69.42332	1.23E-14	Cd34	1.485508	140.2437	5.86E-30	Pheta2	1.026635	58.46484	5.15E-12	Pdgfra	1.219768	50.76542	1.14E-10	Tuba1b	0.518123	12.56303	0.02927077
Upp1	1.679649	81.58548	3.08E-17	Psmb8	1.477303	212.0544	2.29E-45	Cx3c1	1.018345	40.89376	2.42E-08	Fgl2	1.18748	33.72264	4.02E-07	Chst1	0.515418	17.51716	0.004722235
LOC360231	1.674178	122.2351	8.16E-26	Fgl2	1.464472	56.69052	3.05E-12	Cd274	1.013128	39.71229	4.33E-08	Serping1	1.153368	35.58265	1.67E-07	Ppp1r12a	0.515358	17.53685	0.004313206
B2m	1.632164	566.5384	1.26E-121	Zbed5	1.433214	173.4557	4.29E-37	RT1-CE5	1.00531	187.5315	1.34E-38	Lap3	1.15022	98.48999	1.01E-20	Fos	0.513651	25.62015	0.000157074
RT1-CE14	1.59725	96.10339	2.38E-20	Ifi47	1.419692	75.45206	3.41E-16	LOC100910973	0.97727	136.7379	3.36E-28	Cdkn1a	1.147432	39.32163	2.84E-08	Slk	0.509034	16.03786	0.008102927
Manf	1.575837	72.6117	2.62E-15	Cc14	1.409751	30.24881	1.02E-06	Rtnau1ap	0.972107	56.00865	1.63E-11	MGC108823	1.142674	48.95103	2.63E-10	Ttcl4	0.507573	13.6725	0.019637632
Ifit3	1.572253	57.56565	3.82E-12	Depp1	1.398301	91.70332	1.22E-19	Pdgfra	0.919112	36.83088	1.73E-07	LOC100910973	1.125822	161.8393	3.59E-34	Rn45s	0.504804	53.59205	2.98E-10
Resp18	1.560897	20.22473	0.000201918	B2m	1.33023	598.35	1.55E-128	RT1-Ba	0.913544	22.61389	0.000129945	Manf	1.104814	50.23111	1.45E-10	Mettl6	0.5033	13.40937	0.021277656
Sic38a5	1.559602	15.30746	0.001841763	Ier2	1.310173	291.8851	1.57E-62	Fbxo27	0.911468	40.09589	3.60E-08	Timp1	1.09423	30.98457	1.42E-06	Acad9	0.498545	13.92356	0.017986574
Psmb10	1.556591	115.0412	2.79E-24	Pla2g16	1.300077	66.0347	3.14E-14	Igfbp3	0.909795	13.26353	0.008403648	Nkg7	1.07514	24.17777	3.46E-05	Exoc3	0.497986	13.26301	0.02211647
Isg15	1.521259	59.50733	1.55E-12	Vwa1	1.240859	217.2821	1.88E-46	Cdkn1a	0.878664	29.54	5.26E-06	Ifit3	1.052474	32.97094	5.73E-07	Irf1	0.497529	13.71107	0.019529874
Vcam1	1.517434	38.53965	3.64E-08	Cd274	1.226486	57.29333	2.28E-12	Litaf	0.872769	31.82878	1.87E-06	Igtp	1.034461	41.89264	7.88E-09	Sico2a1	0.497522	11.61477	0.042309102
LOC100910973	1.514283	205.7856	9.08E-44	Tubb5	1.218505	130.9642	5.80E-28	Irf7	0.862516	27.19798	1.56E-05	Litaf	1.02994	36.83561	9.19E-08	Ppm1g	0.497064	15.76418	0.008763436
Cd34	1.479212	94.35522	6.29E-20	LOC360231	1.203805	103.405	4.11E-22	Fgl2	0.854876	21.12551	0.000257976	RT1-CE5	1.028264	161.3984	4.20E-34	Myf6	0.495333	41.42294	8.72E-08
Tapbp	1.477726	109.4133	4.14E-23	Ifitm1	1.186378	31.64424	5.29E-07	Hspa1a	0.836432	19.20789	0.000618623	Isg15	1.021813	35.92114	1.42E-07	Adarb1	0.4938	14.67165	0.013087454
Sg5	1.470831	14.29506	0.002869441	Lmcd1	1.180137	119.1124	1.86E-25	Tapbp	0.826307	64.50918	3.26E-13	Sic38a5	1.021123	9.334941	0.028365304	R3hdm4	0.490718	12.4318	0.030690228
Gzmm	1.450307	14.15364	0.003032735	RT1-T24-4	1.168907	142.5306	1.93E-30	Gbp4	0.825282	35.02582	4.01E-07	Fbxo27	1.016015	42.24763	6.66E-09	Lasp1	0.489304	13.27281	0.02211647
Psm2	1.444775	106.8064	1.36E-22	Il4r	1.143183	64.64733	6.20E-14	Prss1	0.803928	18.18526	0.000960688	Psmb10	1.015946	75.62132	6.25E-16	Ilf3	0.483039	13.85073	0.018405969
RGD1309362	1.444623	59.63445	1.47E-12	Ddit4	1.138274	66.10112	3.05E-14	Pla2g16	0.802842	21.05343	0.000264609	Ifitm1	1.012851	17.20919	0.00088383	Atxn3	0.482464	14.41693	0.014518278
Cc14	1.399347	20.3262	0.000192434	Gimap1	1.13319	89.20611	4.09E-19	Lap3	0.802087	61.08825	1.55E-12	Tnfrsf11a	0.965348	37.47806	6.81E-08	Rhob	0.481943	23.66843	0.000345966
Sg3	1.315441	12.86118	0.005474391	Fam110d	1.128199	88.57383	5.55E-19	Sic39a1	0.792619	43.07028	8.83E-09	Psm2	0.964437	68.24886	2.25E-14	Ebp	0.478915	11.6193	0.042309102
Fgl2	1.312836	32.																	