

Supplementary Table 1: DEGs of each cell cluster in normal state

logFC>0.5

	p_val	avg_logFC	pct.1	pct.2	p_val_adj	P1/P2	cluster	gene
CD741	0	4.589360307	0.939	0.07	0	13.41428571	macrophages	CD74
CXCL8	0	4.335967189	0.842	0.024	0	35.08333333	macrophages	CXCL8
HLA.DRA	0	4.081392803	0.552	0.018	0	30.66666667	macrophages	HLA.DRA
CCL3L3	0	4.004574474	0.811	0.023	0	35.26086957	macrophages	CCL3L3
CCL4L2	0	3.863038733	0.811	0.017	0	47.70588235	macrophages	CCL4L2
IL1B	0	3.839781479	0.788	0.015	0	52.53333333	macrophages	IL1B
CCL3	0	3.810209385	0.788	0.011	0	71.63636364	macrophages	CCL3
HLA-DRA1	6.35E-294	3.715834332	0.384	0.026	3.90E-289	1.48E+01	macrophages	HLA-DRA
TAGLN1	0	3.6510815	0.941	0.129	0	7.294573643	VSM_cells	TAGLN
DCN	0	3.633166533	0.98	0.12	0	8.166666667	Leydig_cells	DCN
CFD	0	3.521249703	0.894	0.057	0	15.68421053	Leydig_cells	CFD
TPSB2	7.87E-60	3.477935867	0.34	0.02	4.83E-55	1.70E+01	mastocyte	TPSB2
HLA.DRB11	0	3.378041701	0.556	0.051	0	10.90196078	macrophages	HLA.DRB1
SRGN1	0	3.360395466	0.889	0.046	0	19.32608696	macrophages	SRGN
CCL4	0	3.278722374	0.731	0.056	0	13.05357143	macrophages	CCL4
ADIRF2	0	3.248291087	0.877	0.118	0	7.43220339	VSM_cells	ADIRF
CXCL31	0	3.207505116	0.71	0.024	0	29.58333333	macrophages	CXCL3
B2M5	2.42E-37	3.127936516	0.947	0.252	1.48E-32	3.76E+00	T_cells	B2M
CCL5	0	3.112461415	0.763	0.006	0	127.1666667	T_cells	CCL5
HLA.DPA1	0	3.111717823	0.539	0.008	0	67.375	macrophages	HLA.DPA1
MGP	0	3.032405707	0.913	0.157	0	5.815286624	endotheliocyte	MGP
RGS1	0	3.005160059	0.768	0.005	0	153.6	macrophages	RGS1
CXCL21	0	3.001068413	0.774	0.042	0	18.42857143	macrophages	CXCL2
TPM21	0	2.99208043	0.909	0.137	0	6.635036496	VSM_cells	TPM2
GPR183	0	2.983887021	0.781	0.006	0	130.1666667	macrophages	GPR183
B2M	0	2.972316038	0.985	0.242	0	4.070247934	endotheliocyte	B2M
TNFAIP31	0	2.95978865	0.815	0.109	0	7.47706422	macrophages	TNFAIP3
CCL41	1.82E-31	2.931540681	0.5	0.063	1.12E-26	7.94E+00	T_cells	CCL4
SELE	0	2.915731036	0.598	0.009	0	66.44444444	endotheliocyte	SELE
NFKBIA1	2.75E-242	2.859832344	0.855	0.207	1.69E-237	4.13E+00	macrophages	NFKBIA
IL32	1.25E-204	2.849971491	0.763	0.023	7.65E-200	3.32E+01	T_cells	IL32
PTGDS	0	2.849301788	0.991	0.666	0	1.487987988	Leydig_cells	PTGDS
PTGDS1	0	2.844915854	0.979	0.664	0	1.47439759	PTM_cells	PTGDS
SPARCL1	0	2.836369742	0.96	0.155	0	6.193548387	endotheliocyte	SPARCL1
CD83	0	2.835161206	0.828	0.063	0	13.14285714	macrophages	CD83
HLA.DQA1	0	2.811853558	0.508	0.004	0	127	macrophages	HLA.DQA1
HLA-DPB11	1.78E-213	2.806914001	0.357	0.032	1.09E-208	1.12E+01	macrophages	HLA-DPB1
ACTA2	0	2.784577725	0.912	0.149	0	6.120805369	PTM_cells	ACTA2
KLF61	7.89E-195	2.760582322	0.865	0.285	4.84E-190	3.04E+00	macrophages	KLF6
HLA-DPA11	8.53E-263	2.737647298	0.347	0.024	5.23E-258	1.45E+01	macrophages	HLA-DPA1
HLA.DPB1	0	2.69855066	0.542	0.005	0	108.4	macrophages	HLA.DPB1
HLA-DRB11	1.36E-34	2.696634654	0.357	0.15	8.33E-30	2.38E+00	macrophages	HLA-DRB1
MYH111	0	2.686007961	0.937	0.184	0	5.092391304	VSM_cells	MYH11
HLA.DRB5	0	2.678477625	0.471	0.015	0	31.4	macrophages	HLA.DRB5
ACTA21	0	2.662911479	0.924	0.174	0	5.310344828	VSM_cells	ACTA2
RNASE12	0	2.660771869	0.733	0.101	0	7.257425743	Sertoli_cells	RNASE1
S100A44	4.60E-90	2.651859632	0.763	0.053	2.82E-85	1.44E+01	T_cells	S100A4
APOA1	0	2.644927727	0.742	0.108	0	6.87037037	Sertoli_cells	APOA1
NLRP3	0	2.634359563	0.7	0.007	0	100	macrophages	NLRP3
IGFBP72	0	2.623014649	0.957	0.253	0	3.782608696	PTM_cells	IGFBP7
GADD45B4	0	2.618912838	0.848	0.181	0	4.685082873	VSM_cells	GADD45B
B2M1	1.20E-272	2.609591997	0.963	0.245	7.35E-268	3.93E+00	macrophages	B2M
NKG7	0	2.569689226	0.579	0.001	0	579	T_cells	NKG7
TM4SF1	0	2.568463225	0.921	0.073	0	12.61643836	endotheliocyte	TM4SF1
PLPP3	0	2.56828911	0.899	0.089	0	10.1011236	Leydig_cells	PLPP3
TPSAB1	0	2.561304711	0.3	0.002	0	150	mastocyte	TPSAB1
FATE1	0	2.547521129	0.81	0.068	0	11.91176471	Sertoli_cells	FATE1
HLA.DQB1	0	2.528569358	0.502	0.021	0	23.9047619	macrophages	HLA.DQB1
HLA-E	0	2.505912549	0.72	0.079	0	9.113924051	endotheliocyte	HLA-E
TMSB4X5	6.97E-31	2.505174793	0.974	0.338	4.28E-26	2.88E+00	T_cells	TMSB4X
GZMA	0	2.500833935	0.632	0.001	0	632	T_cells	GZMA
DEFB119	0	2.498591255	0.761	0.117	0	6.504273504	Sertoli_cells	DEFB119
CLU1	3.66E-303	2.498270374	0.746	0.657	2.25E-298	1.14E+00	Sertoli_cells	CLU
MYL91	0	2.486523818	0.905	0.15	0	6.033333333	VSM_cells	MYL9
TMSB4X	3.33E-302	2.476110042	0.975	0.329	2.05E-297	2.96E+00	endotheliocyte	TMSB4X
FTL1	1.08E-161	2.470003802	0.963	0.523	6.62E-157	1.84E+00	macrophages	FTL
TMSB104	0	2.468101568	0.913	0.363	0	2.515151515	Sertoli_cells	TMSB10
CXCR41	6.58E-213	2.451229727	0.658	0.016	4.04E-208	4.11E+01	T_cells	CXCR4
HLA-B2	6.07E-24	2.450813932	0.789	0.253	3.72E-19	3.12E+00	T_cells	HLA-B
APOE1	0	2.44562663	0.795	0.159	0	5	PTM_cells	APOE
CITED1	0	2.439601543	0.786	0.066	0	11.90909091	Sertoli_cells	CITED1

VIM4	1.40E-261	2.42576747	0.943	0.444	8.58E-257	2.12E+00	VSM_cells	VIM
CALD12	0	2.42188149	0.937	0.227	0	4.127753304	VSM_cells	CALD1
ANXA11	0	2.42010897	0.724	0.075	0	9.653333333	macrophages	ANXA1
NR4A21	1.15E-295	2.413191552	0.811	0.143	7.05E-291	5.67E+00	macrophages	NR4A2
TYROBP	0	2.409168261	0.815	0.004	0	203.75	macrophages	TYROBP
HLA-C5	6.34E-30	2.402507709	0.763	0.177	3.89E-25	4.31E+00	T_cells	HLA-C
HLA-A4	8.43E-19	2.402281545	0.763	0.309	5.17E-14	2.47E+00	T_cells	HLA-A
C11orf962	0	2.396933686	0.871	0.266	0	3.27443609	VSM_cells	C11orf96
MYH11	0	2.388047245	0.894	0.161	0	5.552795031	PTM_cells	MYH11
C1QA	0	2.381767492	0.68	0.002	0	340	macrophages	C1QA
C5AR1	0	2.38172501	0.633	0.017	0	37.23529412	macrophages	C5AR1
VWF	0	2.37655757	0.878	0.037	0	23.72972973	endotheliocyte	VWF
MALAT15	5.11E-19	2.363279102	1	0.838	3.14E-14	1.19E+00	T_cells	MALAT1
NFKBIZ1	0	2.361850579	0.801	0.101	0	7.930693069	macrophages	NFKBIZ
CD691	7.98E-38	2.357795113	0.18	0.009	4.90E-33	2.00E+01	mastocyte	CD69
IFI27	0	2.352623412	0.903	0.123	0	7.341463415	endotheliocyte	IFI27
SFRP1	0	2.343317747	0.822	0.073	0	11.26027397	Leydig_cells	SFRP1
IGFBP52	0	2.326690954	0.751	0.06	0	12.51666667	VSM_cells	IGFBP5
MIR202HG	0	2.322044523	0.701	0.05	0	14.02	Sertoli_cells	MIR202HG
MT.RNR11	3.55E-43	2.321435368	0.346	0.279	2.18E-38	1.24E+00	Sertoli_cells	MT.RNR1
CAV1	0	2.318789327	0.906	0.094	0	9.638297872	endotheliocyte	CAV1
TXNIP	0	2.318291856	0.913	0.163	0	5.601226994	endotheliocyte	TXNIP
FTH1P10	7.89E-99	2.315698459	0.539	0.158	4.84E-94	3.41E+00	macrophages	FTH1P10
ZFP362	0	2.314730368	0.867	0.217	0	3.995391705	Leydig_cells	ZFP36
IGF1	0	2.3134078	0.836	0.054	0	15.48148148	Leydig_cells	IGF1
CD52	0	2.301475966	0.684	0.004	0	171	T_cells	CD52
SAT11	6.92E-271	2.294417693	0.815	0.15	4.24E-266	5.43E+00	macrophages	SAT1
IER31	2.18E-255	2.287986297	0.68	0.103	1.34E-250	6.60E+00	macrophages	IER3
FLNA2	0	2.282760011	0.856	0.106	0	8.075471698	VSM_cells	FLNA
EMP1	0	2.28237729	0.866	0.049	0	17.67346939	endotheliocyte	EMP1
HLA-B	4.73E-184	2.279582731	0.72	0.246	2.90E-179	2.93E+00	endotheliocyte	HLA-B
COL1A2	0	2.277689388	0.915	0.151	0	6.059602649	Leydig_cells	COL1A2
RERGL	0	2.273889949	0.715	0.013	0	55	VSM_cells	RERGL
COL1A1	0	2.271752036	0.862	0.099	0	8.707070707	Leydig_cells	COL1A1
GNG11	0	2.268270205	0.841	0.044	0	19.11363636	endotheliocyte	GNG11
TMSB4X1	1.10E-194	2.264526486	0.949	0.332	6.72E-190	2.86E+00	macrophages	TMSB4X
BCL2A1	0	2.257895857	0.599	0.015	0	39.93333333	macrophages	BCL2A1
RGS2	2.38E-220	2.2522595	0.694	0.133	1.46E-215	5.22E+00	macrophages	RGS2
PLAUR	0	2.248061266	0.714	0.024	0	29.75	macrophages	PLAUR
IGF21	0	2.247648276	0.816	0.04	0	20.4	Leydig_cells	IGF2
MALAT14	1.04E-173	2.246974741	0.953	0.836	6.37E-169	1.14E+00	VSM_cells	MALAT1
DSTN1	3.21E-224	2.246848528	0.909	0.555	1.97E-219	1.64E+00	VSM_cells	DSTN
IER24	0	2.246074872	0.841	0.168	0	5.005952381	VSM_cells	IER2
IGFBP71	0	2.236594021	0.976	0.257	0	3.79766537	Leydig_cells	IGFBP7
LTBP4	0	2.231985259	0.92	0.127	0	7.244094488	Leydig_cells	LTBP4
TMSB4X3	0	2.229472121	0.946	0.307	0	3.081433225	PTM_cells	TMSB4X
CCL2	0	2.228119092	0.603	0.038	0	15.86842105	endotheliocyte	CCL2
FOS2	0	2.227875991	0.924	0.286	0	3.230769231	Leydig_cells	FOS
FN1	0	2.226875955	0.702	0.077	0	9.116883117	endotheliocyte	FN1
O2-Jun	0	2.221026079	0.928	0.346	0	2.682080925	Leydig_cells	JUN
HMG5	0	2.212928893	0.702	0.052	0	13.5	Sertoli_cells	HMG5
VIM2	0	2.212831794	0.98	0.429	0	2.284382284	Leydig_cells	VIM
FHL21	0	2.204024482	0.816	0.079	0	10.32911392	PTM_cells	FHL2
MYL9	0	2.197610697	0.85	0.128	0	6.640625	PTM_cells	MYL9
VIM	1.14E-253	2.189873203	0.983	0.444	7.01E-249	2.21E+00	endotheliocyte	VIM
S100A4	0	2.188441483	0.724	0.046	0	15.73913043	macrophages	S100A4
LYZ	0	2.184696671	0.653	0.003	0	217.6666667	macrophages	LYZ
HLA-C	3.12E-244	2.17739278	0.705	0.17	1.91E-239	4.15E+00	endotheliocyte	HLA-C
RGS5	2.42E-140	2.175761577	0.467	0.123	1.48E-135	3.80E+00	VSM_cells	RGS5
TPM2	0	2.160595245	0.846	0.115	0	7.356521739	PTM_cells	TPM2
SRGN3	2.47E-99	2.157558697	0.816	0.054	1.52E-94	1.51E+01	T_cells	SRGN
MT2A3	1.90E-298	2.153642436	0.82	0.222	1.17E-293	3.69E+00	VSM_cells	MT2A
DLK1	0	2.144193788	0.479	0.103	0	4.650485437	Leydig_cells	DLK1
FTH11	8.89E-143	2.140501428	0.98	0.72	5.45E-138	1.36E+00	macrophages	FTH1
HIST1H4C	0	2.137783371	0.648	0.133	0	4.872180451	spermatogonia	HIST1H4C
MS4A6A	0	2.135819205	0.724	0.005	0	144.8	macrophages	MS4A6A
ENG2	0	2.132021529	0.848	0.072	0	11.77777778	PTM_cells	ENG
CD692	0	2.124532088	0.684	0.008	0	85.5	T_cells	CD69
RPL10	4.34E-256	2.116374222	0.96	0.357	2.66E-251	2.69E+00	endotheliocyte	RPL10
SOCS32	0	2.109417199	0.717	0.1	0	7.17	Leydig_cells	SOCS3
RGS162	0	2.108192889	0.457	0.051	0	8.960784314	VSM_cells	RGS16
HLA.E1	1.22E-269	2.104158287	0.532	0.058	7.47E-265	9.17E+00	macrophages	HLA.E
CD3D	0	2.102635672	0.632	0.006	0	105.3333333	T_cells	CD3D
CLDN5	0	2.102463603	0.663	0.013	0	51	endotheliocyte	CLDN5
CYBA1	2.88E-95	2.102251138	0.684	0.04	1.77E-90	1.71E+01	T_cells	CYBA

MCAM	0	2.099309356	0.799	0.028	0	28.53571429	VSM_cells	MCAM
SERPINF1	0	2.098932582	0.889	0.118	0	7.533898305	Leydig_cells	SERPINF1
DUSP11	1.27E-202	2.093974562	0.781	0.18	7.79E-198	4.34E+00	macrophages	DUSP1
GZMK	1.43E-306	2.089078996	0.368	0.003	8.78E-302	1.23E+02	T_cells	GZMK
HLA.E	1.19E-56	2.087502422	0.241	0.06	7.33E-52	4.02E+00	endotheliocyte	HLA.E
C1S	0	2.079599276	0.864	0.072	0	12	Leydig_cells	C1S
FOSB2	0	2.06296444	0.859	0.321	0	2.676012461	Leydig_cells	FOSB
GSN	0	2.062933943	0.94	0.205	0	4.585365854	endotheliocyte	GSN
SGK1	1.79E-177	2.061884473	0.7	0.173	1.10E-172	4.05E+00	macrophages	SGK1
C1QB	0	2.056014741	0.556	0.002	0	278	macrophages	C1QB
C1QC	0	2.051554057	0.552	0.002	0	276	macrophages	C1QC
TRAC	2.02E-36	2.051321005	0.737	0.131	1.24E-31	5.63E+00	T_cells	TRAC
A2M	0	2.048504704	0.873	0.103	0	8.475728155	endotheliocyte	A2M
HLA.B1	1.14E-127	2.04643206	0.532	0.121	7.02E-123	4.40E+00	macrophages	HLA.B
TIMP32	0	2.040137855	0.861	0.142	0	6.063380282	PTM_cells	TIMP3
LAPTM5	0	2.033019968	0.684	0.007	0	97.71428571	macrophages	LAPTM5
SEPP1	3.86E-105	2.031029956	0.471	0.106	2.37E-100	4.44E+00	macrophages	SEPP1
PTPRC1	2.01E-209	2.02977531	0.711	0.019	1.23E-204	3.74E+01	T_cells	PTPRC
PLEK	0	2.028361081	0.65	0.012	0	54.16666667	macrophages	PLEK
IER2	0	2.024419461	0.916	0.168	0	5.452380952	endotheliocyte	IER2
APOE	0	2.020922295	0.65	0.17	0	3.823529412	Leydig_cells	APOE
CD14	0	2.017035062	0.613	0.01	0	61.3	macrophages	CD14
FCER1A	0	2.015355891	0.438	0.002	0	219	macrophages	FCER1A
TNP1	0	2.014407028	0.998	0.985	0	1.01319797	spermatid	TNP1
SOCS3	0	2.00066955	0.878	0.115	0	7.634782609	endotheliocyte	SOCS3
SH3BGRL32	3.64E-27	1.991738794	0.789	0.214	2.24E-22	3.69E+00	T_cells	SH3BGRL3
KLF2	0	1.990784025	0.861	0.158	0	5.449367089	endotheliocyte	KLF2
NFKBIA	0	1.987110308	0.886	0.204	0	4.343137255	endotheliocyte	NFKBIA
CST3	5.11E-164	1.982393292	0.963	0.426	3.13E-159	2.26E+00	macrophages	CST3
FCER1G	0	1.979915598	0.613	0.005	0	122.6	macrophages	FCER1G
HLA-DQA1	0	1.979835595	0.337	0.003	0	112.3333333	macrophages	HLA-DQA1
RPL105	3.67E-23	1.978110654	0.921	0.365	2.25E-18	2.52E+00	T_cells	RPL10
TAGLN	0	1.97718524	0.816	0.109	0	7.486238532	PTM_cells	TAGLN
ID21	7.33E-256	1.975583075	0.717	0.119	4.50E-251	6.03E+00	macrophages	ID2
TPM11	0	1.97354633	0.833	0.195	0	4.271794872	VSM_cells	TPM1
ITM2B2	0	1.97121108	0.933	0.3	0	3.11	Leydig_cells	ITM2B
S100A62	0	1.970358765	0.823	0.103	0	7.990291262	Leydig_cells	S100A6
PRM2	0	1.966700491	0.999	0.99	0	1.009090909	spermatid	PRM2
CCL4L21	1.57E-29	1.965608683	0.316	0.026	9.62E-25	1.22E+01	T_cells	CCL4L2
C1R	0	1.96359901	0.808	0.058	0	13.93103448	Leydig_cells	C1R
PPP1R15A1	3.57E-203	1.963287413	0.798	0.191	2.19E-198	4.18E+00	macrophages	PPP1R15A
CORO1A1	0	1.953718779	0.684	0.006	0	114	T_cells	CORO1A
RPL104	5.56E-256	1.950458101	0.92	0.356	3.41E-251	2.58E+00	VSM_cells	RPL10
COL6A2	0	1.94354344	0.865	0.092	0	9.402173913	Leydig_cells	COL6A2
JUNB2	0	1.94322526	0.905	0.325	0	2.784615385	Leydig_cells	JUNB
MT-ATP64	5.46E-217	1.942218328	0.907	0.426	3.35E-212	2.13E+00	VSM_cells	MT-ATP6
RRAD	0	1.939779	0.693	0.049	0	14.14285714	VSM_cells	RRAD
AIF1	0	1.938875441	0.657	0.002	0	328.5	macrophages	AIF1
CXCL2	0	1.935127587	0.63	0.041	0	15.36585366	endotheliocyte	CXCL2
SPARCL13	0	1.931795612	0.909	0.154	0	5.902597403	VSM_cells	SPARCL1
ZFP36L12	0	1.926547445	0.861	0.378	0	2.277777778	Leydig_cells	ZFP36L1
TIMP12	0	1.925981891	0.816	0.135	0	6.044444444	PTM_cells	TIMP1
CST7	0	1.923266112	0.658	0.001	0	658	T_cells	CST7
AEBP11	0	1.919894138	0.806	0.058	0	13.89655172	PTM_cells	AEBP1
IER3	0	1.919546682	0.782	0.099	0	7.898989899	endotheliocyte	IER3
XCL2	0	1.918746763	0.211	0	0	#DIV/0!	T_cells	XCL2
ARL4C1	1.24E-121	1.918466635	0.579	0.022	7.61E-117	2.63E+01	T_cells	ARL4C
HLA-DRB51	7.74E-56	1.915584107	0.313	0.081	4.75E-51	3.86E+00	macrophages	HLA-DRB5
KLRB1	0	1.912911661	0.368	0	0	#DIV/0!	T_cells	KLRB1
MT-ND14	1.23E-229	1.912284018	0.903	0.402	7.53E-225	2.25E+00	VSM_cells	MT-ND1
ZFP36	6.38E-304	1.907966106	0.918	0.234	3.92E-299	3.92E+00	endotheliocyte	ZFP36
GZMH	0	1.894872657	0.553	0.001	0	553	T_cells	GZMH
S100A64	0	1.893277911	0.708	0.123	0	5.756097561	VSM_cells	S100A6
PI16	0	1.892281796	0.603	0.042	0	14.35714286	Leydig_cells	PI16
KLF65	2.27E-18	1.891645619	0.789	0.291	1.39E-13	2.71E+00	T_cells	KLF6
GADD45B	0	1.890745135	0.906	0.182	0	4.978021978	endotheliocyte	GADD45B
ARHGDI1	1.82E-83	1.889158055	0.632	0.039	1.12E-78	1.62E+01	T_cells	ARHGDI1
TSC22D35	3.31E-29	1.888917216	0.711	0.147	2.03E-24	4.84E+00	T_cells	TSC22D3
COPE	0	1.883784461	0.839	0.567	0	1.479717813	Sertoli_cells	COPE
03-Jun	0	1.882398457	0.853	0.346	0	2.465317919	PTM_cells	JUN
KRT17	0	1.882168871	0.448	0.008	0	56	PTM_cells	KRT17
SPARCL12	0	1.881156274	0.893	0.13	0	6.869230769	PTM_cells	SPARCL1
PLN	0	1.870307559	0.759	0.176	0	4.3125	VSM_cells	PLN
SMC3	0	1.868053418	0.779	0.316	0	2.465189873	spermatogonia	SMC3
CXCR4	0	1.868015577	0.451	0.012	0	37.58333333	macrophages	CXCR4

ID1	0	1.857995236	0.685	0.064	0	10.703125	endotheliocyte	ID1
TEX101	0	1.857390898	0.57	0.134	0	4.253731343	spermatogonia	TEX101
EPPIN	0	1.848749457	0.588	0.039	0	15.07692308	Sertoli_cells	EPPIN
INSL3	0	1.846744554	0.461	0.098	0	4.704081633	Leydig_cells	INSL3
MT-CYB4	4.36E-222	1.844598538	0.901	0.389	2.67E-217	2.32E+00	VSM_cells	MT-CYB
KLF24	0	1.843926231	0.782	0.158	0	4.949367089	VSM_cells	KLF2
CD74	0	1.842981435	0.898	0.067	0	13.40298507	endotheliocyte	CD74
GSTA1	0	1.840676848	0.652	0.061	0	10.68852459	Sertoli_cells	GSTA1
EGR12	0	1.837154908	0.815	0.239	0	3.410041841	Leydig_cells	EGR1
CILP	0	1.837022426	0.715	0.022	0	32.5	Leydig_cells	CILP
CD3E	2.03E-223	1.836331227	0.579	0.012	1.25E-218	4.83E+01	T_cells	CD3E
HLA-A	9.30E-139	1.834798312	0.712	0.303	5.70E-134	2.35E+00	endotheliocyte	HLA-A
JUNB	6.60E-250	1.834618804	0.955	0.34	4.05E-245	2.81E+00	endotheliocyte	JUNB
MGP1	0	1.83331472	0.883	0.137	0	6.445255474	Leydig_cells	MGP
SMOC21	0	1.832348459	0.797	0.053	0	15.03773585	PTM_cells	SMOC2
RPS4X	2.56E-245	1.830493807	0.95	0.34	1.57E-240	2.79E+00	endotheliocyte	RPS4X
RPL396	1.99E-23	1.829596079	0.868	0.282	1.22E-18	3.08E+00	T_cells	RPL39
APOD	0	1.829458666	0.685	0.066	0	10.37878788	Leydig_cells	APOD
MALAT13	5.19E-267	1.821771164	0.916	0.834	3.18E-262	1.10E+00	PTM_cells	MALAT1
CD632	0	1.821037911	0.899	0.266	0	3.379699248	Leydig_cells	CD63
WISP2	0	1.820496705	0.648	0.031	0	20.90322581	Leydig_cells	WISP2
DPEP11	0	1.81505935	0.757	0.14	0	5.407142857	PTM_cells	DPEP1
COL3A1	0	1.813938597	0.712	0.151	0	4.715231788	Leydig_cells	COL3A1
MT.RNR22	1.60E-14	1.813507951	0.351	0.375	9.79E-10	9.36E-01	Sertoli_cells	MT.RNR2
GSN2	0	1.81272577	0.762	0.192	0	3.96875	Leydig_cells	GSN
MFGE81	0	1.811727984	0.82	0.08	0	10.25	VSM_cells	MFGE8
CALD11	0	1.809779788	0.874	0.206	0	4.242718447	PTM_cells	CALD1
TNFAIP32	1.66E-22	1.806902056	0.579	0.117	1.02E-17	4.95E+00	T_cells	TNFAIP3
NR4A3	0	1.806387654	0.549	0.031	0	17.70967742	macrophages	NR4A3
HLA-DQB1	4.81E-274	1.804545277	0.32	0.019	2.95E-269	1.68E+01	macrophages	HLA-DQB1
PLAC9	0	1.797889685	0.686	0.061	0	11.24590164	Leydig_cells	PLAC9
IFITM3	0	1.797374488	0.918	0.187	0	4.909090909	endotheliocyte	IFITM3
TIMP3	0	1.796963116	0.868	0.167	0	5.19760479	endotheliocyte	TIMP3
CCDC168	0	1.796779127	0.636	0.201	0	3.164179104	spermatid	CCDC168
NAMPT1	8.62E-183	1.793723594	0.68	0.148	5.29E-178	4.59E+00	macrophages	NAMPT
MT2A	2.70E-259	1.792798492	0.839	0.224	1.65E-254	3.75E+00	endotheliocyte	MT2A
S100A6	0	1.790828899	0.854	0.122	0	7	endotheliocyte	S100A6
HLA-E3	5.70E-43	1.790127976	0.684	0.088	3.50E-38	7.77E+00	T_cells	HLA-E
ZFP36L21	3.80E-194	1.787303812	0.707	0.142	2.33E-189	4.98E+00	macrophages	ZFP36L2
MT1E1	0	1.786292698	0.655	0.057	0	11.49122807	VSM_cells	MT1E
FOS4	5.79E-248	1.785533705	0.886	0.303	3.55E-243	2.92E+00	VSM_cells	FOS
MAFB	1.53E-305	1.77791731	0.572	0.06	9.41E-301	9.53E+00	macrophages	MAFB
ACTB6	8.33E-18	1.777603755	0.947	0.587	5.11E-13	1.61E+00	T_cells	ACTB
FTL2	0	1.77469336	0.943	0.51	0	1.849019608	Leydig_cells	FTL
MYL63	2.02E-191	1.77227303	0.911	0.661	1.24E-186	1.38E+00	VSM_cells	MYL6
CTSS	0	1.771926579	0.657	0.019	0	34.57894737	macrophages	CTSS
BGN	0	1.771590992	0.749	0.058	0	12.9137931	PTM_cells	BGN
ATF34	0	1.77145526	0.746	0.108	0	6.907407407	VSM_cells	ATF3
IFITM32	0	1.771424231	0.908	0.167	0	5.437125749	Leydig_cells	IFITM3
FOS	8.24E-241	1.767305581	0.931	0.304	5.06E-236	3.06E+00	endotheliocyte	FOS
NEAT1	2.98E-224	1.765348707	0.754	0.189	1.83E-219	3.99E+00	endotheliocyte	NEAT1
SERPINA5	0	1.764638177	0.56	0.17	0	3.294117647	Sertoli_cells	SERPINA5
TRBC21	5.55E-44	1.762690812	0.474	0.041	3.40E-39	1.16E+01	T_cells	TRBC2
JUNB4	6.65E-234	1.761869585	0.888	0.34	4.08E-229	2.61E+00	VSM_cells	JUNB
ZFP36L2	0	1.761071986	0.854	0.138	0	6.188405797	endotheliocyte	ZFP36L2
CCL23	0	1.760798856	0.469	0.039	0	12.02564103	VSM_cells	CCL2
BEX1	0	1.757474279	0.59	0.053	0	11.13207547	Sertoli_cells	BEX1
SPARC2	0	1.756558311	0.875	0.217	0	4.032258065	PTM_cells	SPARC
ANXA15	8.22E-50	1.755232064	0.711	0.082	5.04E-45	8.67E+00	T_cells	ANXA1
SCRG1	0	1.75498241	0.507	0.065	0	7.8	Sertoli_cells	SCRG1
CST33	0	1.751189061	0.753	0.41	0	1.836585366	Sertoli_cells	CST3
ADAMTS11	0	1.750058172	0.62	0.068	0	9.117647059	Leydig_cells	ADAMTS1
TCEAL41	0	1.749241869	0.807	0.161	0	5.01242236	PTM_cells	TCEAL4
RPL102	0	1.747415614	0.942	0.34	0	2.770588235	Leydig_cells	RPL10
JUNB6	1.08E-19	1.746437116	0.895	0.349	6.65E-15	2.56E+00	T_cells	JUNB
DEFB123	0	1.738069001	0.527	0.023	0	22.91304348	Sertoli_cells	DEFB123
MEG3	0	1.737314393	0.677	0.161	0	4.204968944	Leydig_cells	MEG3
MT-ND34	1.19E-225	1.729594348	0.896	0.366	7.27E-221	2.45E+00	VSM_cells	MT-ND3
SNHG7	1.37E-304	1.72828593	0.794	0.177	8.43E-300	4.49E+00	endotheliocyte	SNHG7
NR4A1	8.02E-128	1.726285447	0.758	0.256	4.92E-123	2.96E+00	macrophages	NR4A1
NEAT13	0	1.725348958	0.65	0.174	0	3.735632184	PTM_cells	NEAT1
ZFP361	8.31E-187	1.723357055	0.869	0.237	5.09E-182	3.67E+00	macrophages	ZFP36
FCGR2A	0	1.722879297	0.643	0.045	0	14.28888889	macrophages	FCGR2A
NR2F22	0	1.720345429	0.794	0.137	0	5.795620438	PTM_cells	NR2F2
SERPING11	0	1.720103438	0.766	0.089	0	8.606741573	Leydig_cells	SERPING1

MT-ND53	4.85E-259	1.715428962	0.877	0.287	2.98E-254	3.06E+00	VSM_cells	MT-ND5
CRISPLD2	0	1.714912078	0.699	0.099	0	7.060606061	Leydig_cells	CRISPLD2
PENK	1.06E-278	1.713390984	0.82	0.512	6.48E-274	1.60E+00	Leydig_cells	PENK
EPAS1	0	1.712286748	0.779	0.074	0	10.52702703	endotheliocyte	EPAS1
AKAP4	0	1.711122018	0.779	0.364	0	2.14010989	spermatid	AKAP4
04-Jun	3.74E-209	1.707128986	0.882	0.362	2.29E-204	2.44E+00	VSM_cells	JUN
AHNAK2	0	1.704105564	0.78	0.146	0	5.342465753	Leydig_cells	AHNAK
ALDH1A11	0	1.702596773	0.629	0.096	0	6.552083333	Sertoli_cells	ALDH1A1
COL6A1	0	1.702048661	0.786	0.092	0	8.543478261	Leydig_cells	COL6A1
CLDN11	0	1.700853586	0.5	0.067	0	7.462686567	Sertoli_cells	CLDN11
HLA.A1	3.29E-105	1.700070092	0.522	0.135	2.02E-100	3.87E+00	macrophages	HLA.A
TCEAL5	0	1.698754185	0.576	0.036	0	16	Sertoli_cells	TCEAL5
PNRC11	1.56E-128	1.698288589	0.852	0.393	9.56E-124	2.17E+00	macrophages	PNRC1
SEPP11	0	1.69815959	0.808	0.079	0	10.2278481	Leydig_cells	SEPP1
HSPA1A1	1.21E-65	1.694760997	0.694	0.36	7.42E-61	1.93E+00	macrophages	HSPA1A
SERPINE2	0	1.693013509	0.783	0.147	0	5.326530612	Leydig_cells	SERPINE2
ITGB2	0	1.692615818	0.616	0.003	0	205.3333333	macrophages	ITGB2
RPL103	0	1.691891036	0.926	0.337	0	2.747774481	PTM_cells	RPL10
SELM3	1.20E-284	1.691482505	0.776	0.208	7.38E-280	3.73E+00	VSM_cells	SELM
TSC22D31	2.25E-153	1.69126961	0.626	0.142	1.38E-148	4.41E+00	macrophages	TSC22D3
PTGS21	0	1.68912041	0.488	0.02	0	24.4	macrophages	PTGS2
PRM1	0	1.688848862	0.997	0.974	0	1.023613963	spermatid	PRM1
B2M2	0	1.687255989	0.957	0.222	0	4.310810811	Leydig_cells	B2M
ANXA22	0	1.68348754	0.853	0.272	0	3.136029412	Leydig_cells	ANXA2
CD34	0	1.682683964	0.801	0.057	0	14.05263158	endotheliocyte	CD34
LINC00919	0	1.681276077	0.76	0.417	0	1.822541966	spermatid	LINC00919
MEG31	0	1.679783919	0.607	0.161	0	3.770186335	PTM_cells	MEG3
PTRF	0	1.679371486	0.829	0.11	0	7.536363636	endotheliocyte	PTRF
PFN14	1.16E-11	1.677720232	0.737	0.409	7.12E-07	1.80E+00	T_cells	PFN1
CD163	0	1.675680789	0.572	0.023	0	24.86956522	macrophages	CD163
COL6A3	0	1.674790312	0.697	0.054	0	12.90740741	Leydig_cells	COL6A3
MT1M1	0	1.67288586	0.666	0.025	0	26.64	VSM_cells	MT1M
RHOB4	6.45E-270	1.672568679	0.822	0.231	3.95E-265	3.56E+00	VSM_cells	RHOB
LBH	0	1.670013068	0.708	0.09	0	7.866666667	VSM_cells	LBH
LELP1	0	1.668992653	0.939	0.81	0	1.159259259	spermatid	LELP1
ANXA14	0.005486279	1.668256773	0.18	0.083	1	2.168674699	mastocyte	ANXA1
HIST1H2AA	0	1.668180323	0.533	0.153	0	3.483660131	spermatogonia	HIST1H2AA
FAM71A	0	1.667801309	0.714	0.252	0	2.833333333	spermatid	FAM71A
FOSB1	3.10E-136	1.667658354	0.875	0.338	1.90E-131	2.59E+00	macrophages	FOSB
OAZ3	0	1.666256471	0.859	0.498	0	1.724899598	spermatid	OAZ3
TOP2A	0	1.665959043	0.693	0.239	0	2.89958159	spermatogonia	TOP2A
TMSB10	2.08E-226	1.665554042	0.96	0.39	1.28E-221	2.46E+00	endotheliocyte	TMSB10
GADD45A	0	1.663365502	0.722	0.064	0	11.28125	endotheliocyte	GADD45A
FOS3	0	1.663146346	0.856	0.285	0	3.003508772	PTM_cells	FOS
IGFBP3	2.27E-93	1.660222572	0.166	0.019	1.39E-88	8.74E+00	endotheliocyte	IGFBP3
ZFP364	3.05E-296	1.654008261	0.863	0.233	1.87E-291	3.70E+00	VSM_cells	ZFP36
TIMP11	0	1.652399069	0.807	0.14	0	5.764285714	Leydig_cells	TIMP1
OSR21	0	1.65191603	0.753	0.082	0	9.182926829	PTM_cells	OSR2
C11orf961	0	1.650661529	0.778	0.251	0	3.099601594	PTM_cells	C11orf96
COL15A11	0	1.649542125	0.677	0.106	0	6.386792453	Leydig_cells	COL15A1
H19	0	1.647882654	0.282	0.024	0	11.75	Leydig_cells	H19
PTGS2	0	1.644212345	0.484	0.018	0	26.88888889	endotheliocyte	PTGS2
HCST1	1.71E-161	1.644058887	0.605	0.018	1.05E-156	3.36E+01	T_cells	HCST
FGL2	0	1.643122658	0.586	0.055	0	10.65454545	macrophages	FGL2
ISLR1	0	1.639036081	0.651	0.05	0	13.02	Leydig_cells	ISLR
MT-ND24	1.11E-215	1.635799339	0.905	0.404	6.82E-211	2.24E+00	VSM_cells	MT-ND2
RP5-1023B21.1	0	1.634303983	0.569	0.318	0	1.789308176	spermatocyte	RP5-1023B21.1
MYLK	0	1.632184269	0.761	0.168	0	4.529761905	PTM_cells	MYLK
NR2F21	0	1.629218716	0.784	0.143	0	5.482517483	Leydig_cells	NR2F2
ZCWPW1	0	1.62844774	0.719	0.257	0	2.79766537	spermatogonia	ZCWPW1
LGALS11	0	1.628234752	0.821	0.177	0	4.638418079	PTM_cells	LGALS1
TPM1	0	1.626326199	0.788	0.177	0	4.451977401	PTM_cells	TPM1
RHOB	9.58E-265	1.621925627	0.876	0.232	5.88E-260	3.78E+00	endotheliocyte	RHOB
ISYNA1	2.21E-303	1.621428085	0.661	0.434	1.36E-298	1.52E+00	Sertoli_cells	ISYNA1
CEBPD1	9.08E-183	1.620356599	0.603	0.108	5.57E-178	5.58E+00	macrophages	CEBPD
ANGPTL1	0	1.618041373	0.708	0.034	0	20.82352941	Leydig_cells	ANGPTL1
NEAT11	3.80E-84	1.61752173	0.599	0.193	2.33E-79	3.10E+00	macrophages	NEAT1
LAPTM51	4.32E-172	1.617072371	0.553	0.014	2.65E-167	3.95E+01	T_cells	LAPTM5
SH3RF2	0	1.616578892	0.875	0.517	0	1.69245648	spermatid	SH3RF2
RAMP2	0	1.609266282	0.759	0.065	0	11.67692308	endotheliocyte	RAMP2
MCL11	6.55E-108	1.609226058	0.865	0.526	4.02E-103	1.64E+00	macrophages	MCL1
MALAT12	6.12E-263	1.608386613	0.965	0.833	3.76E-258	1.16E+00	Leydig_cells	MALAT1
MYL62	0	1.607100452	0.928	0.651	0	1.425499232	PTM_cells	MYL6
LGALS12	0	1.603074074	0.839	0.197	0	4.258883249	VSM_cells	LGALS1
AC007557.1	0	1.600462347	0.88	0.575	0	1.530434783	spermatid	AC007557.1

TPT1	1.57E-192	1.599333585	0.983	0.857	9.61E-188	1.15E+00	endotheliocyte	TPT1
MT-ND44	7.99E-203	1.598543694	0.905	0.41	4.90E-198	2.21E+00	VSM_cells	MT-ND4
PTPRC	0	1.598383553	0.569	0.014	0	40.64285714	macrophages	PTPRC
SAT1	5.88E-298	1.598305134	0.777	0.148	3.61E-293	5.25E+00	endotheliocyte	SAT1
IGFBP7	9.58E-229	1.59761725	0.906	0.278	5.88E-224	3.26E+00	endotheliocyte	IGFBP7
DUSP1	5.45E-301	1.595661545	0.829	0.176	3.34E-296	4.71E+00	endotheliocyte	DUSP1
SLC9A3R2	1.61E-207	1.594084037	0.672	0.17	9.86E-203	3.95E+00	endotheliocyte	SLC9A3R2
CSRP11	0	1.592800308	0.744	0.106	0	7.018867925	VSM_cells	CSRP1
CDKN1A	7.69E-306	1.591861843	0.717	0.122	4.72E-301	5.88E+00	endotheliocyte	CDKN1A
KLF22	0	1.590872697	0.711	0.145	0	4.903448276	Leydig_cells	KLF2
MALAT1	2.34E-107	1.590765952	0.943	0.837	1.44E-102	1.13E+00	endotheliocyte	MALAT1
NUAK1	0	1.588474325	0.677	0.02	0	33.85	endotheliocyte	NUAK1
SNCG1	0	1.587402931	0.611	0.025	0	24.44	VSM_cells	SNCG
JUNB3	0	1.587374251	0.842	0.324	0	2.598765432	PTM_cells	JUNB
DUSP23	1.31E-42	1.585567918	0.526	0.051	8.06E-38	1.03E+01	T_cells	DUSP2
ITM2A1	0	1.582789536	0.643	0.053	0	12.13207547	Leydig_cells	ITM2A
IGFBP73	3.59E-287	1.582479946	0.928	0.276	2.20E-282	3.36E+00	VSM_cells	IGFBP7
MT.ND32	4.08E-14	1.581382315	0.35	0.372	2.50E-09	9.41E-01	Sertoli_cells	MT.ND3
LRRFIP1	0	1.580697332	0.784	0.082	0	9.56097561	endotheliocyte	LRRFIP1
RPL39	4.76E-227	1.580445091	0.881	0.273	2.92E-222	3.23E+00	endotheliocyte	RPL39
MGP2	0	1.577268781	0.859	0.133	0	6.458646617	PTM_cells	MGP
SYCP3	0	1.576980764	0.685	0.256	0	2.67578125	spermatogonia	SYCP3
CSF1R	0	1.576215485	0.545	0.026	0	20.96153846	macrophages	CSF1R
IGFBP4	0	1.575891104	0.774	0.077	0	10.05194805	endotheliocyte	IGFBP4
CTGF	0	1.571751968	0.645	0.064	0	10.078125	endotheliocyte	CTGF
SOX17	0	1.568512826	0.663	0.041	0	16.17073171	endotheliocyte	SOX17
MS4A7	0	1.56799413	0.535	0.006	0	89.16666667	macrophages	MS4A7
RHOB2	0	1.56337796	0.756	0.219	0	3.452054795	Leydig_cells	RHOB
LGALS3BP	0	1.562681949	0.763	0.091	0	8.384615385	Leydig_cells	LGALS3BP
MT.CO1	2.09E-114	1.561129478	0.392	0.326	1.28E-109	1.20E+00	spermatogonia	MT.CO1
SMC1B	0	1.557804682	0.696	0.287	0	2.425087108	spermatogonia	SMC1B
SRGN	0	1.557417248	0.752	0.044	0	17.09090909	endotheliocyte	SRGN
ID3	0	1.556311672	0.613	0.039	0	15.71794872	endotheliocyte	ID3
ZFP36L25	1.70E-24	1.556278636	0.684	0.148	1.05E-19	4.62E+00	T_cells	ZFP36L2
HEMGN	0	1.555570117	0.762	0.286	0	2.664335664	spermatid	HEMGN
LUM	0	1.554177451	0.389	0.022	0	17.68181818	Leydig_cells	LUM
ITM2B3	0	1.553774535	0.864	0.299	0	2.889632107	PTM_cells	ITM2B
CYBA	0	1.553744983	0.529	0.035	0	15.11428571	macrophages	CYBA
OSR2	0	1.549235359	0.727	0.088	0	8.261363636	Leydig_cells	OSR2
P2RY13	0	1.548824962	0.458	0.001	0	458	macrophages	P2RY13
DUSP61	3.33E-125	1.54804193	0.438	0.08	2.04E-120	5.48E+00	macrophages	DUSP6
BTG11	9.83E-71	1.546449127	0.798	0.609	6.03E-66	1.31E+00	macrophages	BTG1
ODF1	0	1.546165614	0.691	0.436	0	1.584862385	spermatid	ODF1
CST9L	0	1.544770258	0.46	0.017	0	27.05882353	Sertoli_cells	CST9L
STK17B	2.01E-121	1.543343985	0.582	0.157	1.24E-116	3.71E+00	macrophages	STK17B
EMP34	8.22E-26	1.543161979	0.711	0.164	5.04E-21	4.34E+00	T_cells	EMP3
HMGB4	0	1.542191119	0.986	0.879	0	1.121729238	spermatid	HMGB4
FOS1	2.20E-119	1.54216855	0.835	0.308	1.35E-114	2.71E+00	macrophages	FOS
IGFBP6	0	1.54130405	0.487	0.08	0	6.0875	Leydig_cells	IGFBP6
CAV13	0	1.539492586	0.801	0.094	0	8.521276596	VSM_cells	CAV1
SYCP1	7.74E-270	1.538625933	0.564	0.413	4.75E-265	1.37E+00	spermatogonia	SYCP1
COL15A12	0	1.534470703	0.738	0.099	0	7.454545455	PTM_cells	COL15A1
HMG3	0	1.533685687	0.614	0.243	0	2.526748971	Sertoli_cells	HMG3
MT-CO14	3.32E-190	1.533203665	0.905	0.445	2.03E-185	2.03E+00	VSM_cells	MT-CO1
IFITM2	0	1.532415831	0.829	0.156	0	5.314102564	endotheliocyte	IFITM2
C10orf62	0	1.531866879	0.86	0.435	0	1.977011494	spermatid	C10orf62
CLEC7A	0	1.531270952	0.549	0.006	0	91.5	macrophages	CLEC7A
PRSS23	0	1.531088707	0.677	0.041	0	16.51219512	endotheliocyte	PRSS23
CCDC110	0	1.530789876	0.992	0.436	0	2.275229358	spermatocyte	CCDC110
HLA.C1	4.11E-123	1.528681743	0.421	0.074	2.52E-118	5.69E+00	macrophages	HLA.C
GZMM	0	1.528044205	0.5	0.005	0	100	T_cells	GZMM
HSPB13	1.22E-270	1.526678344	0.803	0.212	7.45E-266	3.79E+00	VSM_cells	HSPB1
TSSK6	0	1.525452937	0.762	0.309	0	2.466019417	spermatid	TSSK6
RPS8	3.04E-176	1.522572512	0.96	0.773	1.87E-171	1.24E+00	endotheliocyte	RPS8
RPL12	1.75E-150	1.520915214	0.923	0.631	1.08E-145	1.46E+00	endotheliocyte	RPL12
HMGA1	0	1.520084631	0.532	0.088	0	6.045454545	spermatogonia	HMGA1
RPL217	4.56E-16	1.517661792	0.921	0.477	2.80E-11	1.93E+00	T_cells	RPL21
MGST33	0	1.51625884	0.651	0.211	0	3.085308057	Sertoli_cells	MGST3
MYLK1	0	1.515664617	0.822	0.186	0	4.419354839	VSM_cells	MYLK
S100A10	5.16E-161	1.515633186	0.866	0.434	3.17E-156	2.00E+00	endotheliocyte	S100A10
KLF42	2.04E-278	1.512084854	0.782	0.475	1.25E-273	1.65E+00	Leydig_cells	KLF4
TMSB4X4	4.20E-229	1.509917426	0.886	0.329	2.58E-224	2.69E+00	VSM_cells	TMSB4X
BGN1	0	1.50937704	0.687	0.081	0	8.481481481	VSM_cells	BGN
ACTB1	3.64E-106	1.509246123	0.926	0.583	2.23E-101	1.59E+00	macrophages	ACTB
PTMA1	7.39E-185	1.508545093	0.968	0.652	4.53E-180	1.48E+00	endotheliocyte	PTMA

MARCKSL12	0	1.5073979	0.654	0.196	0	3.336734694	Sertoli_cells	MARCKSL1
MT-CO32	1.07E-182	1.505875222	0.907	0.462	6.58E-178	1.96E+00	VSM_cells	MT-CO3
TIMP21	0	1.50552163	0.847	0.402	0	2.106965174	PTM_cells	TIMP2
IFNG	0	1.504364458	0.368	0.001	0	368	T_cells	IFNG
GSG1	0	1.503359612	0.909	0.591	0	1.538071066	spermatid	GSG1
IGFBP5	0	1.502298436	0.455	0.055	0	8.272727273	Leydig_cells	IGFBP5
CD2	1.02E-23	1.501039098	0.553	0.106	6.28E-19	5.22E+00	T_cells	CD2
HSPB6	0	1.499121561	0.63	0.186	0	3.387096774	Leydig_cells	HSPB6
LIFR	1.10E-269	1.497951787	0.739	0.163	6.73E-265	4.53E+00	endotheliocyte	LIFR
CD48	0	1.497801254	0.632	0.008	0	79	T_cells	CD48
RPL416	8.15E-14	1.495896055	0.921	0.788	5.00E-09	1.17E+00	T_cells	RPL41
CYR611	0	1.494852645	0.66	0.089	0	7.415730337	PTM_cells	CYR61
CCL21	1.52E-57	1.493944747	0.236	0.044	9.32E-53	5.36E+00	macrophages	CCL2
LMOD11	0	1.493219633	0.693	0.046	0	15.06521739	VSM_cells	LMOD1
FAM71B	0	1.491643784	0.683	0.159	0	4.295597484	spermatid	FAM71B
FMR1NB	0	1.491527206	0.533	0.089	0	5.988764045	spermatogonia	FMR1NB
PEG10	0	1.490407065	0.529	0.101	0	5.237623762	Sertoli_cells	PEG10
PDE4B	0	1.490090213	0.498	0.043	0	11.58139535	macrophages	PDE4B
TNS11	0	1.489337695	0.732	0.074	0	9.891891892	PTM_cells	TNS1
TBPL1	0	1.489331899	0.978	0.427	0	2.290398126	spermatocyte	TBPL1
MT.CO32	2.32E-22	1.488920089	0.349	0.327	1.42E-17	1.07E+00	Sertoli_cells	MT.CO3
FTL3	0	1.488618109	0.905	0.509	0	1.777996071	PTM_cells	FTL
RPS3	1.70E-181	1.488256005	0.975	0.797	1.05E-176	1.22E+00	endotheliocyte	RPS3
IL2RG	0	1.48786343	0.474	0.003	0	158	T_cells	IL2RG
PMAIP1	3.56E-241	1.485698813	0.418	0.038	2.18E-236	1.10E+01	macrophages	PMAIP1
NGFRAP12	1.15E-280	1.485560125	0.399	0.122	7.03E-276	3.27E+00	Sertoli_cells	NGFRAP1
CLEC14A	0	1.48514605	0.6	0.019	0	31.57894737	endotheliocyte	CLEC14A
CTSB	3.02E-91	1.481805526	0.606	0.215	1.85E-86	2.82E+00	macrophages	CTSB
DUSP2	3.79E-274	1.480870762	0.492	0.047	2.32E-269	1.05E+01	macrophages	DUSP2
GNLY	1.28E-214	1.480726354	0.184	0.001	7.83E-210	1.84E+02	T_cells	GNLY
OTUD1	1.21E-105	1.477728232	0.539	0.147	7.40E-101	3.67E+00	macrophages	OTUD1
HLA.A	4.32E-14	1.477683996	0.241	0.138	2.65E-09	1.75E+00	endotheliocyte	HLA.A
MMP21	0	1.477476529	0.747	0.154	0	4.850649351	PTM_cells	MMP2
KCTD12	0	1.476527221	0.663	0.08	0	8.2875	endotheliocyte	KCTD12
BCAM	0	1.476318451	0.744	0.051	0	14.58823529	endotheliocyte	BCAM
FOSB3	0	1.472847267	0.782	0.321	0	2.436137072	PTM_cells	FOSB
CD811	0	1.471679064	0.801	0.296	0	2.706081081	Leydig_cells	CD81
C10orf101	0	1.471562742	0.452	0.037	0	12.21621622	VSM_cells	C10orf10
RPL13A6	3.65E-18	1.468031727	1	0.737	2.24E-13	1.36E+00	T_cells	RPL13A
PTMS2	0	1.466560039	0.795	0.185	0	4.297297297	PTM_cells	PTMS
TPT11	1.71E-118	1.466023672	0.976	0.858	1.05E-113	1.14E+00	macrophages	TPT1
RPS4X3	0	1.46348975	0.898	0.321	0	2.797507788	PTM_cells	RPS4X
TKTL1	0	1.462224641	0.531	0.157	0	3.382165605	spermatogonia	TKTL1
PLTP	0	1.461885923	0.669	0.147	0	4.551020408	Leydig_cells	PLTP
CCSER2	0	1.461843158	0.844	0.49	0	1.72244898	spermatid	CCSER2
TM4SF11	0	1.460147987	0.658	0.061	0	10.78688525	Leydig_cells	TM4SF1
IER51	9.30E-132	1.456255253	0.566	0.131	5.71E-127	4.32E+00	macrophages	IER5
MYL12A4	2.42E-13	1.456235792	0.711	0.328	1.49E-08	2.17E+00	T_cells	MYL12A
RPL13A	2.53E-162	1.456023772	0.965	0.734	1.55E-157	1.31E+00	endotheliocyte	RPL13A
TIMP2	0	1.454563942	0.836	0.406	0	2.0591133	Leydig_cells	TIMP2
IFITM22	0	1.454348133	0.751	0.14	0	5.364285714	Leydig_cells	IFITM2
RBP7	0	1.452646007	0.66	0.074	0	8.918918919	endotheliocyte	RBP7
JUN	8.79E-203	1.452046428	0.935	0.362	5.39E-198	2.58E+00	endotheliocyte	JUN
HOPX	0	1.451890941	0.484	0.084	0	5.761904762	Sertoli_cells	HOPX
FBLN51	0	1.451601023	0.708	0.065	0	10.89230769	PTM_cells	FBLN5
RPL211	7.68E-181	1.451435767	0.955	0.47	4.71E-176	2.03E+00	endotheliocyte	RPL21
CPA3	0	1.451265788	0.24	0.001	0	240	mastocyte	CPA3
SAT12	0	1.451107325	0.61	0.126	0	4.841269841	Sertoli_cells	SAT1
RPS18	5.00E-170	1.4492582	0.98	0.851	3.06E-165	1.15E+00	endotheliocyte	RPS18
EPHX1	0	1.448227669	0.69	0.108	0	6.388888889	Leydig_cells	EPHX1
ETS21	3.39E-271	1.448159374	0.552	0.062	2.08E-266	8.90E+00	macrophages	ETS2
C20orf141	0	1.445978799	0.804	0.319	0	2.520376176	spermatid	C20orf141
SLC2A3	0	1.445875386	0.677	0.084	0	8.05952381	endotheliocyte	SLC2A3
RPS82	0	1.445120856	0.969	0.768	0	1.26171875	Leydig_cells	RPS8
TIMP33	0	1.444683249	0.841	0.165	0	5.096969697	VSM_cells	TIMP3
SPTBN11	0	1.444462024	0.778	0.284	0	2.73943662	Leydig_cells	SPTBN1
NASP	0	1.443823864	0.846	0.329	0	2.571428571	spermatogonia	NASP
NFIB	0	1.44290787	0.71	0.066	0	10.75757576	endotheliocyte	NFIB
RNF151	0	1.442648281	0.822	0.446	0	1.843049327	spermatid	RNF151
RPS28	1.13E-146	1.441003683	0.913	0.606	6.93E-142	1.51E+00	endotheliocyte	RPS28
SCARA5	0	1.440846036	0.526	0.01	0	52.6	Leydig_cells	SCARA5
MGST32	2.11E-264	1.439959248	0.812	0.228	1.29E-259	3.56E+00	VSM_cells	MGST3
MTND1P232	2.43E-12	1.439525281	0.349	0.376	1.49E-07	9.28E-01	Sertoli_cells	MTND1P23
SPATA42	0	1.439346913	0.814	0.365	0	2.230136986	spermatid	SPATA42
SMAP2	3.10E-92	1.43918841	0.593	0.21	1.90E-87	2.82E+00	macrophages	SMAP2

TSHZ21	0	1.438153166	0.699	0.079	0	8.848101266	PTM_cells	TSHZ2
RPS22	1.89E-161	1.437454203	0.963	0.673	1.16E-156	1.43E+00	endotheliocyte	RPS2
SPARC4	9.95E-260	1.436070644	0.524	0.23	6.10E-255	2.28E+00	Sertoli_cells	SPARC
MFAP4	0	1.435472167	0.63	0.026	0	24.23076923	PTM_cells	MFAP4
CD742	1.97E-20	1.434664193	0.474	0.079	1.21E-15	6.00E+00	T_cells	CD74
SAMD4A	0	1.433617656	0.834	0.421	0	1.980997625	spermatid	SAMD4A
LTB	1.74E-277	1.432012015	0.421	0.005	1.06E-272	8.42E+01	T_cells	LTB
MT.ND51	5.47E-38	1.429534216	0.559	0.315	3.35E-33	1.77E+00	macrophages	MT.ND5
TINAGL11	0	1.4295101	0.662	0.013	0	50.92307692	VSM_cells	TINAGL1
ZFP36L11	8.41E-76	1.429311507	0.744	0.394	5.16E-71	1.89E+00	macrophages	ZFP36L1
HERPUD1	6.16E-62	1.428363921	0.657	0.364	3.78E-57	1.80E+00	macrophages	HERPUD1
GLUL	0	1.426578449	0.866	0.588	0	1.472789116	spermatid	GLUL
RPL144	8.32E-147	1.425716837	0.865	0.642	5.11E-142	1.35E+00	VSM_cells	RPL14
GADD45B2	0	1.424966152	0.757	0.168	0	4.505952381	Leydig_cells	GADD45B
AKAP1	0	1.423981567	0.752	0.308	0	2.441558442	spermatid	AKAP1
HLA.B	1.20E-16	1.422786518	0.236	0.124	7.38E-12	1.90E+00	endotheliocyte	HLA.B
CD633	0	1.422326647	0.847	0.264	0	3.208333333	PTM_cells	CD63
BTG22	0	1.422159044	0.64	0.11	0	5.818181818	Leydig_cells	BTG2
DES	1.96E-265	1.420700284	0.524	0.084	1.20E-260	6.24E+00	VSM_cells	DES
ICAM11	3.79E-277	1.417728326	0.488	0.046	2.33E-272	1.06E+01	macrophages	ICAM1
LGALS31	0	1.417108574	0.732	0.186	0	3.935483871	Leydig_cells	LGALS3
LAMC31	0	1.417035348	0.684	0.043	0	15.90697674	PTM_cells	LAMC3
APOD1	0	1.416653808	0.667	0.062	0	10.75806452	PTM_cells	APOD
ID32	0	1.416443405	0.567	0.038	0	14.92105263	VSM_cells	ID3
ALOX5AP	0	1.416322288	0.508	0.019	0	26.73684211	macrophages	ALOX5AP
RPL13A2	0	1.416247622	0.964	0.728	0	1.324175824	Leydig_cells	RPL13A
LINC00684	0	1.415452186	0.386	0.015	0	25.73333333	Sertoli_cells	LINC00684
PPP1R15A2	0	1.414998163	0.714	0.175	0	4.08	Leydig_cells	PPP1R15A
SPATA3	0	1.414294077	0.804	0.374	0	2.14973262	spermatid	SPATA3
TXNIP2	0	1.412937748	0.752	0.149	0	5.046979866	Leydig_cells	TXNIP
RPS266	4.34E-10	1.412569382	0.789	0.538	2.66E-05	1.47E+00	T_cells	RPS26
PTPRB	0	1.412004722	0.64	0.021	0	30.47619048	endotheliocyte	PTPRB
MT.CO22	2.50E-20	1.410658165	0.349	0.335	1.53E-15	1.04E+00	Sertoli_cells	MT.CO2
RPL10A	5.10E-158	1.410393523	0.931	0.659	3.13E-153	1.41E+00	endotheliocyte	RPL10A
VSIG4	0	1.409376174	0.512	0.023	0	22.26086957	macrophages	VSIG4
ZFP36L22	0	1.409230687	0.713	0.123	0	5.796747967	Leydig_cells	ZFP36L2
F13A1	2.09E-302	1.409151797	0.451	0.036	1.28E-297	1.25E+01	macrophages	F13A1
CDKN1A1	1.34E-141	1.406740432	0.589	0.126	8.24E-137	4.67E+00	macrophages	CDKN1A
MMP2	0	1.405332911	0.661	0.162	0	4.080246914	Leydig_cells	MMP2
CLEC10A	0	1.404909148	0.471	0.003	0	157	macrophages	CLEC10A
CABS1	0	1.404886202	0.813	0.34	0	2.391176471	spermatid	CABS1
FOSB	2.35E-209	1.403216114	0.933	0.335	1.44E-204	2.79E+00	endotheliocyte	FOSB
GPX1	1.31E-82	1.402103083	0.721	0.355	8.01E-78	2.03E+00	macrophages	GPX1
RPL18A7	1.56E-11	1.40165442	0.789	0.418	9.59E-07	1.89E+00	T_cells	RPL18A
TMSB105	1.18E-19	1.400185494	0.921	0.398	7.22E-15	2.31E+00	T_cells	TMSB10
MT.ND4	1.76E-71	1.399605175	0.392	0.37	1.08E-66	1.06E+00	spermatogonia	MT.ND4
TSPAN16	0	1.398377727	0.816	0.362	0	2.254143646	spermatid	TSPAN16
PRND	0	1.396905497	0.417	0.017	0	24.52941176	Sertoli_cells	PRND
TNFSF10	0	1.39674005	0.682	0.018	0	37.88888889	endotheliocyte	TNFSF10
NUPR2	0	1.395640917	0.959	0.699	0	1.371959943	spermatid	NUPR2
HLA.C	2.94E-36	1.39488016	0.231	0.076	1.80E-31	3.04E+00	endotheliocyte	HLA.C
RPL27A6	9.07E-15	1.394399084	0.921	0.787	5.56E-10	1.17E+00	T_cells	RPL27A
PSAP	7.38E-86	1.394293098	0.828	0.444	4.53E-81	1.86E+00	macrophages	PSAP
PDK41	1.53E-36	1.393845721	0.29	0.093	9.38E-32	3.12E+00	macrophages	PDK4
HLA-DRA	0	1.392636751	0.618	0.021	0	29.42857143	endotheliocyte	HLA-DRA
HSPB1	3.82E-244	1.391730141	0.836	0.213	2.34E-239	3.92E+00	endotheliocyte	HSPB1
ANXA1	0	1.391355404	0.749	0.072	0	10.40277778	endotheliocyte	ANXA1
BTG2	0	1.39123906	0.759	0.123	0	6.170731707	endotheliocyte	BTG2
OLR1	7.97E-143	1.390540871	0.401	0.059	4.89E-138	6.80E+00	macrophages	OLR1
TNF	0	1.38956989	0.32	0.004	0	80	macrophages	TNF
CPE1	0	1.387968129	0.777	0.185	0	4.2	PTM_cells	CPE
ACTB3	0	1.387559715	0.907	0.57	0	1.59122807	PTM_cells	ACTB
LDHC	0	1.387035444	0.996	0.581	0	1.714285714	spermatocyte	LDHC
MAGED21	0	1.383574062	0.74	0.11	0	6.727272727	PTM_cells	MAGED2
EGR13	0	1.383257295	0.743	0.239	0	3.108786611	PTM_cells	EGR1
BTG15	1.83E-10	1.382029935	0.789	0.611	1.12E-05	1.29E+00	T_cells	BTG1
CYBB	0	1.38168933	0.448	0.002	0	224	macrophages	CYBB
RPS4X4	1.63E-195	1.381236901	0.869	0.34	1.00E-190	2.56E+00	VSM_cells	RPS4X
PTTG1	0	1.380888361	0.988	0.456	0	2.166666667	spermatocyte	PTTG1
CTSG	1.27E-16	1.380507768	0.2	0.024	7.78E-12	8.33E+00	mastocyte	CTSG
CPE	0	1.379853041	0.77	0.189	0	4.074074074	Leydig_cells	CPE
NOTCH3	0	1.379725307	0.668	0.018	0	37.11111111	VSM_cells	NOTCH3
CD3G	1.19E-294	1.379714706	0.526	0.007	7.30E-290	7.51E+01	T_cells	CD3G
IQCF2	0	1.37965009	0.78	0.347	0	2.247838617	spermatid	IQCF2
RPL145	6.57E-13	1.379033981	0.868	0.646	4.03E-08	1.34E+00	T_cells	RPL14

PPP1R15A6	1.91E-17	1.378753511	0.684	0.197	1.17E-12	3.47E+00	T_cells	PPP1R15A
CLIC15	9.94E-07	1.378316125	0.5	0.265	0.060958577	1.886792453	T_cells	CLIC1
MARCKS1	1.60E-81	1.37776138	0.623	0.254	9.79E-77	2.45E+00	macrophages	MARCKS
MT.CO3	2.23E-120	1.377640511	0.391	0.312	1.37E-115	1.25E+00	spermatogonia	MT.CO3
RAMP3	0	1.377249177	0.61	0.028	0	21.78571429	endotheliocyte	RAMP3
RPL13A3	0	1.375600855	0.939	0.727	0	1.291609354	PTM_cells	RPL13A
ARPC1B3	1.08E-30	1.373961659	0.553	0.078	6.64E-26	7.09E+00	T_cells	ARPC1B
BTG24	1.23E-269	1.37294359	0.649	0.123	7.52E-265	5.28E+00	VSM_cells	BTG2
IFI16	0	1.371787643	0.712	0.076	0	9.368421053	endotheliocyte	IFI16
KRT131	0	1.370775087	0.447	0.045	0	9.933333333	PTM_cells	KRT13
ID23	1.53E-14	1.370770956	0.5	0.125	9.39E-10	4.00E+00	T_cells	ID2
MTCO1P121	3.54E-72	1.370483263	0.345	0.212	2.17E-67	1.63E+00	Sertoli_cells	MTCO1P12
ATF31	1.77E-142	1.369860206	0.569	0.114	1.09E-137	4.99E+00	macrophages	ATF3
FCGR2B	0	1.369614344	0.444	0.008	0	55.5	macrophages	FCGR2B
IER21	4.99E-106	1.368906945	0.63	0.175	3.06E-101	3.60E+00	macrophages	IER2
CEBPD	4.32E-284	1.368877259	0.655	0.105	2.65E-279	6.24E+00	endotheliocyte	CEBPD
C7	0	1.368174787	0.295	0.011	0	26.81818182	Leydig_cells	C7
RPL184	5.38E-152	1.36810521	0.888	0.568	3.30E-147	1.56E+00	VSM_cells	RPL18
ICAM1	0	1.368083735	0.524	0.043	0	12.18604651	endotheliocyte	ICAM1
MEIOB	0	1.367214554	0.466	0.131	0	3.557251908	spermatogonia	MEIOB
TMSB101	1.15E-137	1.366977128	0.933	0.392	7.03E-133	2.38E+00	macrophages	TMSB10
ACTB4	1.66E-162	1.366845273	0.905	0.581	1.02E-157	1.56E+00	VSM_cells	ACTB
MRC1	6.31E-150	1.365404231	0.458	0.075	3.87E-145	6.11E+00	macrophages	MRC1
ENTPD2	0	1.364122544	0.518	0.022	0	23.54545455	Leydig_cells	ENTPD2
CTGF2	3.62E-228	1.363185346	0.442	0.066	2.22E-223	6.70E+00	VSM_cells	CTGF
MALAT11	2.20E-63	1.362323653	0.963	0.837	1.35E-58	1.15E+00	macrophages	MALAT1
C2orf57	0	1.361834212	0.74	0.239	0	3.09623431	spermatid	C2orf57
CALM13	0	1.359704812	0.829	0.684	0	1.211988304	Sertoli_cells	CALM1
PTRF3	0	1.358473814	0.772	0.109	0	7.082568807	VSM_cells	PTRF
BST23	0	1.357673225	0.73	0.083	0	8.795180723	PTM_cells	BST2
PTMA4	1.92E-167	1.356637446	0.924	0.652	1.18E-162	1.42E+00	VSM_cells	PTMA
ACTB5	2.36E-299	1.35488999	0.765	0.575	1.45E-294	1.33E+00	Sertoli_cells	ACTB
STOM	2.03E-252	1.354424463	0.697	0.15	1.24E-247	4.65E+00	endotheliocyte	STOM
RPL26	4.33E-143	1.354420403	0.945	0.753	2.66E-138	1.25E+00	endotheliocyte	RPL26
EEF1A1	2.09E-183	1.35440274	0.99	0.924	1.28E-178	1.07E+00	endotheliocyte	EEF1A1
RPL283	1.38E-13	1.352707575	0.895	0.823	8.48E-09	1.09E+00	T_cells	RPL28
ACKR1	0	1.351787645	0.395	0.005	0	79	endotheliocyte	ACKR1
MSN3	1.05E-30	1.351720793	0.526	0.071	6.41E-26	7.41E+00	T_cells	MSN
TAGLN2	1.29E-240	1.351247717	0.799	0.204	7.93E-236	3.92E+00	endotheliocyte	TAGLN2
RPS23	3.23E-169	1.351120301	0.98	0.827	1.98E-164	1.19E+00	endotheliocyte	RPS23
BHLHE40	0	1.350741753	0.64	0.043	0	14.88372093	endotheliocyte	BHLHE40
XCL1	6.18E-68	1.349978567	0.184	0.004	3.79E-63	4.60E+01	T_cells	XCL1
TP53TG5	0	1.349539182	0.644	0.174	0	3.701149425	spermatid	TP53TG5
RPL41	2.18E-148	1.349520512	0.958	0.785	1.34E-143	1.22E+00	endotheliocyte	RPL41
PNRC12	0	1.349104446	0.778	0.382	0	2.036649215	Leydig_cells	PNRC1
RPLP14	1.54E-143	1.348521921	0.924	0.764	9.45E-139	1.21E+00	VSM_cells	RPLP1
PPP1R15A	9.34E-244	1.345625542	0.797	0.188	5.73E-239	4.24E+00	endotheliocyte	PPP1R15A
GMFG1	6.57E-35	1.345516303	0.553	0.071	4.03E-30	7.79E+00	T_cells	GMFG
PTMS1	0	1.344447913	0.74	0.192	0	3.854166667	Leydig_cells	PTMS
SORBS2	0	1.342233682	0.617	0.028	0	22.03571429	VSM_cells	SORBS2
LY6K	0	1.341604732	0.545	0.062	0	8.790322581	spermatogonia	LY6K
FSTL1	0	1.340600374	0.604	0.061	0	9.901639344	Leydig_cells	FSTL1
ITM2B1	1.25E-123	1.339999335	0.852	0.321	7.64E-119	2.65E+00	macrophages	ITM2B
CD991	0	1.339447115	0.789	0.171	0	4.614035088	Leydig_cells	CD99
IGFBP61	0	1.339127437	0.632	0.07	0	9.028571429	PTM_cells	IGFBP6
CD92	0	1.338313563	0.698	0.084	0	8.30952381	VSM_cells	CD9
GLIPR1	8.17E-133	1.337599202	0.539	0.12	5.01E-128	4.49E+00	macrophages	GLIPR1
NR4A22	7.40E-11	1.337340606	0.474	0.151	4.54E-06	3.14E+00	T_cells	NR4A2
FXD51	0	1.336513124	0.502	0.021	0	23.9047619	macrophages	FXD5
WBSCR22	0	1.336204844	0.796	0.328	0	2.426829268	spermatogonia	WBSCR22
EBF1	0	1.335977501	0.631	0.115	0	5.486956522	Leydig_cells	EBF1
CCNA1	0	1.334787395	0.93	0.274	0	3.394160584	spermatocyte	CCNA1
FYB1	4.47E-33	1.334323851	0.526	0.067	2.74E-28	7.85E+00	T_cells	FYB
NEAT14	5.28E-239	1.332646518	0.755	0.187	3.24E-234	4.04E+00	VSM_cells	NEAT1
ITGB11	0	1.331735709	0.788	0.187	0	4.213903743	PTM_cells	ITGB1
CST31	0	1.331722646	0.938	0.409	0	2.293398533	Leydig_cells	CST3
CD442	2.93E-15	1.331672981	0.447	0.099	1.80E-10	4.52E+00	T_cells	CD44
OGFRL1	0	1.331495733	0.498	0.025	0	19.92	macrophages	OGFRL1
CALD1	0	1.331094016	0.842	0.213	0	3.953051643	Leydig_cells	CALD1
NUPR11	0	1.330807205	0.724	0.109	0	6.642201835	PTM_cells	NUPR1
IRF1	1.55E-187	1.330295012	0.732	0.216	9.52E-183	3.39E+00	endotheliocyte	IRF1
BST2	0	1.33024352	0.749	0.105	0	7.133333333	endotheliocyte	BST2
RNASE11	3.80E-29	1.329476076	0.347	0.14	2.33E-24	2.48E+00	macrophages	RNASE1
DBF4	0	1.328710594	0.987	0.433	0	2.279445727	spermatocyte	DBF4
RPS196	3.89E-12	1.328646159	0.895	0.759	2.39E-07	1.18E+00	T_cells	RPS19

RPL18A1	5.29E-152	1.326051032	0.888	0.411	3.24E-147	2.16E+00	endotheliocyte	RPL18A
CDH1	9.49E-229	1.325930629	0.34	0.026	5.82E-224	1.31E+01	macrophages	CDH1
RPS220	4.54E-14	1.325915503	0.921	0.677	2.79E-09	1.36E+00	T_cells	RPS2
ADIRF1	0	1.325742108	0.714	0.106	0	6.735849057	Leydig_cells	ADIRF
PPP1R14A3	0	1.325597017	0.518	0.127	0	4.078740157	Sertoli_cells	PPP1R14A
EGR14	2.40E-217	1.325550068	0.814	0.254	1.47E-212	3.20E+00	VSM_cells	EGR1
DCXR	0	1.325108304	0.499	0.104	0	4.798076923	Sertoli_cells	DCXR
VIM1	6.53E-101	1.324606416	0.879	0.448	4.01E-96	1.96E+00	macrophages	VIM
MT-CO23	2.44E-173	1.324593726	0.903	0.428	1.49E-168	2.11E+00	VSM_cells	MT-CO2
SOD3	1.83E-195	1.324129	0.767	0.289	1.12E-190	2.65E+00	VSM_cells	SOD3
RPS36	5.75E-13	1.323831416	0.895	0.8	3.53E-08	1.12E+00	T_cells	RPS3
SMCP	0	1.323666409	0.944	0.668	0	1.413173653	spermatid	SMCP
RPL18	8.00E-144	1.321764054	0.916	0.569	4.91E-139	1.61E+00	endotheliocyte	RPL18
RPL10A4	2.95E-151	1.321086945	0.894	0.659	1.81E-146	1.36E+00	VSM_cells	RPL10A
MTATP6P1	2.40E-276	1.321078481	0.379	0.196	1.47E-271	1.93E+00	spermatogonia	MTATP6P1
TUBB4A	0	1.320673713	0.402	0.037	0	10.86486486	Sertoli_cells	TUBB4A
EGFL7	0	1.320021136	0.784	0.1	0	7.84	endotheliocyte	EGFL7
CD531	0	1.319877497	0.5	0.005	0	100	T_cells	CD53
RPL18A5	3.83E-157	1.319566143	0.85	0.41	2.35E-152	2.07E+00	VSM_cells	RPL18A
GSTP12	0	1.319459543	0.735	0.149	0	4.932885906	Leydig_cells	GSTP1
PPP3R2	0	1.318933981	0.975	0.452	0	2.157079646	spermatocyte	PPP3R2
GTSF1L	0	1.31813037	0.879	0.516	0	1.703488372	spermatid	GTSF1L
HLA-DRB1	5.24E-235	1.316840033	0.658	0.145	3.21E-230	4.54E+00	endotheliocyte	HLA-DRB1
FSCN3	0	1.316819004	0.674	0.171	0	3.941520468	spermatid	FSCN3
GIMAP7	0	1.315428428	0.643	0.004	0	160.75	endotheliocyte	GIMAP7
PCP2	0	1.314857547	0.8	0.344	0	2.325581395	spermatid	PCP2
HLA-B1	1.04E-14	1.312680896	0.374	0.252	6.35E-10	1.48E+00	macrophages	HLA-B
RHOB1	2.17E-91	1.312235456	0.673	0.237	1.33E-86	2.84E+00	macrophages	RHOB
ATF32	0	1.312104382	0.522	0.102	0	5.117647059	Leydig_cells	ATF3
TIMP31	0	1.311838552	0.755	0.152	0	4.967105263	Leydig_cells	TIMP3
TPM42	0	1.311770479	0.725	0.213	0	3.403755869	PTM_cells	TPM4
S100A41	0	1.310276366	0.48	0.035	0	13.71428571	Leydig_cells	S100A4
MT-ND52	0	1.310106634	0.735	0.275	0	2.672727273	PTM_cells	MT-ND5
HCLS1	0	1.307447331	0.488	0.008	0	61	macrophages	HCLS1
RPL11	3.24E-159	1.306266067	0.973	0.824	1.99E-154	1.18E+00	endotheliocyte	RPL11
EID11	0	1.305455822	0.843	0.345	0	2.443478261	Leydig_cells	EID1
NCL	0	1.304811857	0.824	0.341	0	2.416422287	spermatogonia	NCL
MYL6B	2.15E-296	1.304155256	0.742	0.594	1.32E-291	1.25E+00	Sertoli_cells	MYL6B
RPL392	0	1.304145175	0.8	0.26	0	3.076923077	Leydig_cells	RPL39
TSHZ2	0	1.303066271	0.66	0.086	0	7.674418605	Leydig_cells	TSHZ2
C20orf144	0	1.302913274	0.72	0.416	0	1.730769231	spermatid	C20orf144
CFH1	0	1.302363733	0.61	0.043	0	14.18604651	Leydig_cells	CFH
IRGC	0	1.301348	0.828	0.423	0	1.957446809	spermatid	IRGC
CAPZA3	0	1.301324338	0.863	0.519	0	1.662813102	spermatid	CAPZA3
LIMS1	1.31E-150	1.300737009	0.7	0.255	8.05E-146	2.75E+00	endotheliocyte	LIMS1
IER23	0	1.300509018	0.664	0.155	0	4.283870968	PTM_cells	IER2
NFKBIB	0	1.300216717	0.729	0.321	0	2.271028037	spermatid	NFKBIB
RAD51AP2	0	1.299923917	0.272	0.09	0	3.022222222	spermatogonia	RAD51AP2
PTN	5.32E-262	1.297309654	0.503	0.155	3.26E-257	3.25E+00	Leydig_cells	PTN
DNAJB6	0	1.296510678	0.805	0.458	0	1.757641921	spermatogonia	DNAJB6
EMP31	2.41E-106	1.295256119	0.572	0.16	1.48E-101	3.58E+00	macrophages	EMP3
FXD52	1.81E-68	1.294808474	0.474	0.026	1.11E-63	1.82E+01	T_cells	FXD5
SSPN	0	1.293939362	0.644	0.073	0	8.821917808	Leydig_cells	SSPN
KLF41	5.09E-61	1.293740014	0.747	0.485	3.12E-56	1.54E+00	macrophages	KLF4
CXCL16	0	1.293242388	0.808	0.417	0	1.93764988	spermatid	CXCL16
CLPB	0	1.29262138	0.84	0.464	0	1.810344828	spermatid	CLPB
ELK3	0	1.292120274	0.645	0.043	0	15	endotheliocyte	ELK3
FAM209A	0	1.291265643	0.751	0.423	0	1.775413712	spermatid	FAM209A
LGALS13	0	1.291021299	0.63	0.18	0	3.5	Sertoli_cells	LGALS1
LST1	0	1.290623757	0.441	0.009	0	49	macrophages	LST1
NBL1	0	1.289352515	0.591	0.078	0	7.576923077	Leydig_cells	NBL1
GAPDHS	0	1.288620756	0.879	0.495	0	1.775757576	spermatid	GAPDHS
ZFP36L13	0	1.288427536	0.805	0.377	0	2.135278515	PTM_cells	ZFP36L1
NEAT12	0	1.288207192	0.617	0.179	0	3.446927374	Leydig_cells	NEAT1
CHGA	0	1.287143666	0.397	0.056	0	7.089285714	Sertoli_cells	CHGA
CYLC2	0	1.286780758	0.875	0.485	0	1.804123711	spermatid	CYLC2
STK4	2.64E-13	1.286063809	0.579	0.201	1.62E-08	2.88E+00	T_cells	STK4
EHD4	0	1.285877428	0.65	0.055	0	11.81818182	endotheliocyte	EHD4
RPS4X2	0	1.285791953	0.896	0.325	0	2.756923077	Leydig_cells	RPS4X
TPPP2	0	1.285266441	0.872	0.519	0	1.680154143	spermatid	TPPP2
RPS285	1.75E-09	1.285046059	0.789	0.61	0.000107272	1.293442623	T_cells	RPS28
RPS83	0	1.285029456	0.928	0.768	0	1.208333333	PTM_cells	RPS8
RPL101	5.21E-120	1.28489913	0.909	0.36	3.20E-115	2.53E+00	macrophages	RPL10
IFI271	0	1.284828615	0.605	0.114	0	5.307017544	Leydig_cells	IFI27
BST22	0	1.28426785	0.695	0.089	0	7.808988764	Leydig_cells	BST2

LGALS1	0	1.283581267	0.74	0.185	0	4	Leydig_cells	LGALS1
MT.ATP6	3.33E-89	1.283571261	0.388	0.336	2.04E-84	1.15E+00	spermatogonia	MT.ATP6
MT-CYB6	6.75E-12	1.281276348	0.816	0.398	4.14E-07	2.05E+00	T_cells	MT-CYB
CCDC91	0	1.280548747	0.902	0.606	0	1.488448845	spermatid	CCDC91
FCGR3A	0	1.279150227	0.377	0.001	0	377	macrophages	FCGR3A
RASD1	0	1.279059136	0.591	0.045	0	13.13333333	PTM_cells	RASD1
SYNE2	2.96E-277	1.278477637	0.697	0.126	1.82E-272	5.53E+00	endotheliocyte	SYNE2
RPL10P31	1.05E-148	1.278221674	0.391	0.052	6.41E-144	7.52E+00	macrophages	RPL10P3
COL18A12	0	1.277780872	0.609	0.075	0	8.12	VSM_cells	COL18A1
PSMG1	0	1.277115783	0.983	0.471	0	2.087048832	spermatocyte	PSMG1
MT.CO2	3.30E-105	1.276924687	0.388	0.321	2.03E-100	1.21E+00	spermatogonia	MT.CO2
SMIM1	0	1.275539573	0.426	0.069	0	6.173913043	Sertoli_cells	SMIM1
S100A65	4.17E-31	1.275479922	0.763	0.133	2.56E-26	5.74E+00	T_cells	S100A6
HMGB2	0	1.27495277	0.776	0.327	0	2.373088685	spermatogonia	HMGB2
ETS2	0	1.274938294	0.65	0.058	0	11.20689655	endotheliocyte	ETS2
DUSP6	3.75E-276	1.27464422	0.546	0.077	2.30E-271	7.09E+00	endotheliocyte	DUSP6
CETN1	0	1.274471716	0.991	0.574	0	1.726480836	spermatocyte	CETN1
RPL10A3	0	1.274242792	0.902	0.651	0	1.385560676	PTM_cells	RPL10A
F3	0	1.273254602	0.637	0.052	0	12.25	PTM_cells	F3
PMP22	0	1.272207885	0.653	0.139	0	4.697841727	Leydig_cells	PMP22
RPS146	7.30E-13	1.272070694	0.921	0.831	4.48E-08	1.11E+00	T_cells	RPS14
RPS4X6	8.88E-16	1.27201358	0.868	0.349	5.45E-11	2.49E+00	T_cells	RPS4X
HCST	0	1.271441825	0.451	0.014	0	32.21428571	macrophages	HCST
PTCH2	0	1.271239363	0.507	0.067	0	7.567164179	Leydig_cells	PTCH2
VCAN1	0	1.268032218	0.595	0.046	0	12.93478261	PTM_cells	VCAN
RPSA	0	1.266399682	0.804	0.571	0	1.408056042	spermatogonia	RPSA
RPS9	8.13E-170	1.266232601	0.975	0.836	4.99E-165	1.17E+00	endotheliocyte	RPS9
C17orf105	0	1.266197216	0.777	0.381	0	2.039370079	spermatid	C17orf105
ACTL7A	0	1.265786792	0.854	0.461	0	1.852494577	spermatid	ACTL7A
ALOX5AP1	6.51E-51	1.26351435	0.395	0.024	3.99E-46	1.65E+01	T_cells	ALOX5AP
SOX9	0	1.263175205	0.446	0.09	0	4.955555556	Sertoli_cells	SOX9
CTSW	4.34E-202	1.262777086	0.395	0.006	2.66E-197	6.58E+01	T_cells	CTSW
HERC5	0	1.262448432	0.582	0.278	0	2.09352518	spermatogonia	HERC5
SFRP41	0	1.261199306	0.58	0.027	0	21.48148148	PTM_cells	SFRP4
CSRNP11	7.34E-93	1.261188603	0.576	0.179	4.50E-88	3.22E+00	macrophages	CSRNP1
RPL395	0	1.260021219	0.694	0.254	0	2.732283465	Sertoli_cells	RPL39
CEBPD2	0	1.25924178	0.556	0.094	0	5.914893617	Leydig_cells	CEBPD
LCP12	6.35E-11	1.258957818	0.632	0.289	3.89E-06	2.19E+00	T_cells	LCP1
RNASSET2	1.43E-107	1.2589285	0.519	0.132	8.80E-103	3.93E+00	macrophages	RNASSET2
DCUN1D1	0	1.25862545	0.903	0.687	0	1.31441048	spermatid	DCUN1D1
NEXN1	0	1.258423458	0.632	0.105	0	6.019047619	VSM_cells	NEXN
RP5.1052M9.11	4.27E-45	1.257838867	0.478	0.205	2.62E-40	2.33E+00	macrophages	RP5.1052M9.1
SUSD3	0	1.257274357	0.407	0.021	0	19.38095238	Sertoli_cells	SUSD3
PSAP1	0	1.256614059	0.863	0.43	0	2.006976744	Leydig_cells	PSAP
IDS3	1.10E-24	1.255607394	0.474	0.071	6.77E-20	6.68E+00	T_cells	IDS
REL1	5.34E-124	1.255264715	0.508	0.11	3.27E-119	4.62E+00	macrophages	REL
IQCF1	0	1.25443413	0.795	0.396	0	2.007575758	spermatid	IQCF1
ITGB21	7.06E-167	1.252912699	0.447	0.009	4.33E-162	4.97E+01	T_cells	ITGB2
MT-ATP66	2.93E-10	1.252203414	0.789	0.435	1.79E-05	1.81E+00	T_cells	MT-ATP6
RPS272	8.67E-09	1.250778346	0.921	0.823	0.000532164	1.119076549	T_cells	RPS27
DNAJB8	0	1.250733728	0.787	0.339	0	2.321533923	spermatid	DNAJB8
OGN	0	1.250605492	0.598	0.056	0	10.67857143	Leydig_cells	OGN
CCNI	0	1.250427457	0.797	0.479	0	1.66388309	spermatogonia	CCNI
UBQLN3	0	1.250221642	0.793	0.385	0	2.05974026	spermatid	UBQLN3
ALDH1A3	0	1.248845245	0.515	0.033	0	15.60606061	Leydig_cells	ALDH1A3
B3GNT5	3.40E-72	1.248591621	0.418	0.118	2.08E-67	3.54E+00	macrophages	B3GNT5
TNS12	0	1.246947843	0.751	0.095	0	7.905263158	VSM_cells	TNS1
LTBP41	0	1.246337763	0.778	0.129	0	6.031007752	PTM_cells	LTBP4
RPS15A3	6.67E-14	1.246155998	0.947	0.786	4.09E-09	1.20E+00	T_cells	RPS15A
CCDC85B	9.56E-308	1.24600168	0.705	0.117	5.87E-303	6.03E+00	endotheliocyte	CCDC85B
PRSS37	0	1.245352344	0.603	0.123	0	4.902439024	spermatid	PRSS37
C2CD4B	0	1.244780845	0.409	0.004	0	102.25	endotheliocyte	C2CD4B
CD1512	0	1.24420552	0.66	0.094	0	7.021276596	VSM_cells	CD151
TNFAIP3	5.83E-194	1.243957576	0.556	0.11	3.58E-189	5.05E+00	endotheliocyte	TNFAIP3
PECAM1	0	1.24388895	0.486	0.008	0	60.75	endotheliocyte	PECAM1
ABLIM11	0	1.243445053	0.716	0.265	0	2.701886792	PTM_cells	ABLIM1
MT.TM	1.47E-266	1.243438174	0.282	0.062	9.00E-262	4.55E+00	Sertoli_cells	MT.TM
ZNF683	0	1.24297888	0.684	0.183	0	3.737704918	spermatid	ZNF683
RPL23A4	4.15E-13	1.242524977	0.921	0.737	2.55E-08	1.25E+00	T_cells	RPL23A
ARHGDI1B	2.12E-292	1.241598905	0.441	0.035	1.30E-287	1.26E+01	macrophages	ARHGDI1B
PPP1R14A2	4.18E-289	1.241178755	0.717	0.142	2.57E-284	5.05E+00	VSM_cells	PPP1R14A
SPERT	0	1.240150959	0.758	0.306	0	2.477124183	spermatid	SPERT
ZMYND10	0	1.24013452	0.965	0.387	0	2.493540052	spermatocyte	ZMYND10
DUSP16	1.97E-13	1.240001975	0.605	0.186	1.21E-08	3.25E+00	T_cells	DUSP1
RPL3	1.27E-156	1.239728985	0.99	0.923	7.79E-152	1.07E+00	endotheliocyte	RPL3

GIMAP8	0	1.239721	0.563	0.003	0	187.6666667	endotheliocyte	GIMAP8
ABCA8	0	1.239065723	0.603	0.134	0	4.5	Leydig_cells	ABCA8
HOOK1	0	1.238979543	0.778	0.44	0	1.768181818	spermatid	HOOK1
IER22	0	1.238948174	0.686	0.157	0	4.369426752	Leydig_cells	IER2
EEF1A13	0	1.237807136	0.978	0.922	0	1.060737527	PTM_cells	EEF1A1
HEG1	0	1.237017124	0.591	0.051	0	11.58823529	endotheliocyte	HEG1
COL1A11	0	1.236660109	0.701	0.102	0	6.87254902	PTM_cells	COL1A1
CYTIP1	4.19E-150	1.236364779	0.526	0.014	2.57E-145	3.76E+01	T_cells	CYTIP
PALMD	2.16E-237	1.236144873	0.635	0.126	1.32E-232	5.04E+00	endotheliocyte	PALMD
MSR1	0	1.235968556	0.431	0.019	0	22.68421053	macrophages	MSR1
FCGRT2	0	1.235643671	0.671	0.174	0	3.856321839	Leydig_cells	FCGRT
MYL12A	7.01E-147	1.234017934	0.774	0.322	4.30E-142	2.40E+00	endotheliocyte	MYL12A
GSTP14	6.70E-286	1.23242629	0.763	0.164	4.11E-281	4.65E+00	VSM_cells	GSTP1
RPL215	5.49E-163	1.232247051	0.903	0.47	3.37E-158	1.92E+00	VSM_cells	RPL21
BCAM1	0	1.232133082	0.649	0.051	0	12.7254902	VSM_cells	BCAM
NFKBIZ	0	1.231870532	0.672	0.1	0	6.72	endotheliocyte	NFKBIZ
IL13RA1	1.01E-133	1.230880475	0.519	0.106	6.20E-129	4.90E+00	macrophages	IL13RA1
FAM129A1	0	1.230336991	0.63	0.018	0	35	VSM_cells	FAM129A
RPL23	5.65E-146	1.230244154	0.938	0.7	3.47E-141	1.34E+00	endotheliocyte	RPL23
PRKCDBP	0	1.229797256	0.91	0.351	0	2.592592593	spermatocyte	PRKCDBP
IFITM25	1.99E-14	1.228905612	0.579	0.165	1.22E-09	3.51E+00	T_cells	IFITM2
PODXL	0	1.22848414	0.593	0.007	0	84.71428571	endotheliocyte	PODXL
HLA.DMA	0	1.228475842	0.32	0.005	0	64	macrophages	HLA.DMA
HNRNPA2B1	0	1.227085764	0.905	0.628	0	1.441082803	spermatogonia	HNRNPA2B1
RPS27A	2.97E-158	1.226920436	0.975	0.859	1.82E-153	1.14E+00	endotheliocyte	RPS27A
LYAR	0	1.226779928	0.928	0.363	0	2.556473829	spermatocyte	LYAR
NUPR13	0	1.226627096	0.479	0.116	0	4.129310345	Sertoli_cells	NUPR1
PTMS	6.62E-248	1.226505649	0.839	0.205	4.06E-243	4.09E+00	endotheliocyte	PTMS
FLNA1	0	1.225571219	0.733	0.088	0	8.329545455	PTM_cells	FLNA
HBB	2.33E-08	1.224967452	0.043	0.03	0.001427552	1.433333333	spermatid	HBB
RCAN2	1.69E-270	1.224882466	0.664	0.147	1.04E-265	4.52E+00	VSM_cells	RCAN2
FAM71C	0	1.224579404	0.609	0.106	0	5.745283019	spermatid	FAM71C
GADD45B1	2.09E-146	1.224017416	0.744	0.187	1.28E-141	3.98E+00	macrophages	GADD45B
HSPA1B1	8.07E-40	1.223239002	0.451	0.193	4.95E-35	2.34E+00	macrophages	HSPA1B
EEF1A14	2.62E-158	1.222939536	0.966	0.924	1.61E-153	1.05E+00	VSM_cells	EEF1A1
TUBA1A2	0	1.22293584	0.688	0.183	0	3.759562842	Leydig_cells	TUBA1A
IQCF3	0	1.222496065	0.8	0.371	0	2.156334232	spermatid	IQCF3
CRISP2	0	1.221798355	0.965	0.81	0	1.191358025	spermatid	CRISP2
HSPG2	0	1.221664378	0.593	0.052	0	11.40384615	endotheliocyte	HSPG2
NAE1	0	1.221647953	0.67	0.082	0	8.170731707	spermatogonia	NAE1
MT.CYB1	3.90E-35	1.221395734	0.572	0.332	2.39E-30	1.72E+00	macrophages	MT.CYB
MT-CYB3	1.43E-296	1.221267892	0.786	0.378	8.77E-292	2.08E+00	PTM_cells	MT-CYB
CCNB2	0	1.221245278	0.949	0.296	0	3.206081081	spermatocyte	CCNB2
LINC00608	0	1.220887859	0.744	0.269	0	2.765799257	spermatid	LINC00608
ITM2A	0	1.220261336	0.675	0.069	0	9.782608696	endotheliocyte	ITM2A
SPINK2	0	1.219989303	0.993	0.697	0	1.424677188	spermatocyte	SPINK2
HES4	0	1.219937221	0.605	0.032	0	18.90625	VSM_cells	HES4
JUND	1.61E-113	1.219003841	0.841	0.499	9.87E-109	1.69E+00	endotheliocyte	JUND
LMO2	0	1.218805381	0.563	0.021	0	26.80952381	endotheliocyte	LMO2
GADD45B3	0	1.21634598	0.716	0.166	0	4.313253012	PTM_cells	GADD45B
CCND11	0	1.215994871	0.529	0.043	0	12.30232558	VSM_cells	CCND1
MT-CO3	3.58E-167	1.215871175	0.533	0.452	2.20E-162	1.18E+00	spermatogonia	MT-CO3
MT-ATP63	4.01E-266	1.215399622	0.789	0.417	2.46E-261	1.89E+00	PTM_cells	MT-ATP6
TSKS	0	1.214546708	0.787	0.392	0	2.007653061	spermatid	TSKS
LINC00238	0	1.214375803	0.373	0.088	0	4.238636364	spermatid	LINC00238
FOLR2	0	1.2137189	0.35	0.004	0	87.5	macrophages	FOLR2
ANKRD7	0	1.212887063	0.998	0.755	0	1.321854305	spermatocyte	ANKRD7
OXCT2	0	1.212432967	0.68	0.144	0	4.722222222	spermatid	OXCT2
RDX1	7.26E-171	1.21233291	0.794	0.268	4.45E-166	2.96E+00	endotheliocyte	RDX
TXNIP1	1.04E-77	1.212123425	0.549	0.171	6.37E-73	3.21E+00	macrophages	TXNIP
RPL123	0	1.211985459	0.881	0.623	0	1.414125201	PTM_cells	RPL12
LRWD1	0	1.210822523	0.992	0.541	0	1.833641405	spermatocyte	LRWD1
C16orf82	0	1.210500513	0.789	0.391	0	2.017902813	spermatid	C16orf82
DPEP3	0	1.21030811	0.583	0.132	0	4.416666667	spermatogonia	DPEP3
CCDC42	0	1.209718757	0.904	0.251	0	3.601593625	spermatocyte	CCDC42
PPP1R12B	6.40E-226	1.208954869	0.655	0.168	3.93E-221	3.90E+00	VSM_cells	PPP1R12B
RPL36A	1.74E-203	1.208688033	0.64	0.133	1.07E-198	4.81E+00	endotheliocyte	RPL36A
RPL231	3.94E-87	1.208457675	0.902	0.701	2.42E-82	1.29E+00	macrophages	RPL23
SPATA16	0	1.208255861	0.958	0.263	0	3.642585551	spermatocyte	SPATA16
RPL391	1.92E-93	1.207891526	0.747	0.277	1.18E-88	2.70E+00	macrophages	RPL39
RBP1	0	1.207582108	0.388	0.036	0	10.77777778	Sertoli_cells	RBP1
RPS4Y1	4.15E-186	1.205525221	0.826	0.266	2.55E-181	3.11E+00	endotheliocyte	RPS4Y1
KLF62	1.21E-261	1.205402406	0.655	0.276	7.43E-257	2.37E+00	Leydig_cells	KLF6
RPL6	6.89E-130	1.205347275	0.908	0.681	4.23E-125	1.33E+00	endotheliocyte	RPL6
IFITM33	0	1.205168587	0.811	0.166	0	4.885542169	PTM_cells	IFITM3

RPL186	9.57E-12	1.204897137	0.868	0.573	5.87E-07	1.51E+00	T_cells	RPL18
KRT13	1.24E-295	1.204452982	0.323	0.054	7.62E-291	5.98E+00	Leydig_cells	KRT13
PBK	0	1.204109848	0.975	0.385	0	2.532467532	spermatocyte	PBK
MCHR2-AS1	0	1.20408534	0.565	0.199	0	2.83919598	spermatocyte	MCHR2-AS1
RPS14	3.92E-143	1.203863428	0.96	0.829	2.40E-138	1.16E+00	endotheliocyte	RPS14
AC013461.1	2.16E-216	1.203757591	0.66	0.172	1.32E-211	3.84E+00	VSM_cells	AC013461.1
RPLP1	2.68E-144	1.203377743	0.985	0.763	1.64E-139	1.29E+00	endotheliocyte	RPLP1
RPS186	1.84E-12	1.202952299	0.921	0.853	1.13E-07	1.08E+00	T_cells	RPS18
RPL14	1.55E-127	1.200774612	0.901	0.642	9.52E-123	1.40E+00	endotheliocyte	RPL14
JUND1	2.09E-83	1.200498675	0.838	0.501	1.28E-78	1.67E+00	macrophages	JUND
GSTP13	0	1.200474621	0.738	0.145	0	5.089655172	PTM_cells	GSTP1
TAGLN23	0	1.200322266	0.521	0.192	0	2.713541667	Sertoli_cells	TAGLN2
THBD	0	1.200266433	0.561	0.042	0	13.35714286	endotheliocyte	THBD
TGFBI	0	1.200070857	0.397	0.011	0	36.09090909	macrophages	TGFBI
CRYAB1	3.65E-270	1.199983247	0.605	0.116	2.24E-265	5.22E+00	VSM_cells	CRYAB
BEX2	0	1.199662392	0.401	0.053	0	7.566037736	Sertoli_cells	BEX2
RPL10A2	0	1.199634424	0.916	0.652	0	1.404907975	Leydig_cells	RPL10A
RPL122	5.07E-301	1.199054977	0.886	0.625	3.11E-296	1.42E+00	Leydig_cells	RPL12
AHNAK	4.28E-255	1.198802743	0.772	0.163	2.63E-250	4.74E+00	endotheliocyte	AHNAK
FAM187B	0	1.197135094	0.657	0.155	0	4.238709677	spermatid	FAM187B
FXD12	0	1.197076002	0.632	0.044	0	14.36363636	VSM_cells	FXD1
ZFH31	0	1.196508471	0.613	0.081	0	7.567901235	VSM_cells	ZFH3
RPS171	4.88E-126	1.196227891	0.896	0.468	2.99E-121	1.91E+00	endotheliocyte	RPS17
JUNB1	4.50E-91	1.195959706	0.798	0.345	2.76E-86	2.31E+00	macrophages	JUNB
LRRFIP11	1.25E-137	1.195598727	0.485	0.089	7.68E-133	5.45E+00	macrophages	LRRFIP1
JAG11	0	1.195251288	0.588	0.042	0	14	VSM_cells	JAG1
CFL13	3.29E-09	1.194860611	0.816	0.737	0.000201761	1.107191316	T_cells	CFL1
MYC1	0	1.194609979	0.531	0.051	0	10.41176471	Leydig_cells	MYC
LMCD1	0	1.193926766	0.613	0.039	0	15.71794872	endotheliocyte	LMCD1
FAM209B	0	1.193910109	0.737	0.434	0	1.698156682	spermatid	FAM209B
DNAJC4	0	1.193855079	0.786	0.385	0	2.041558442	spermatid	DNAJC4
DPYSL31	0	1.193359995	0.625	0.092	0	6.793478261	PTM_cells	DPYSL3
FAM46C	0	1.193299674	0.761	0.376	0	2.02393617	spermatid	FAM46C
MT-CO2	3.30E-186	1.193011962	0.517	0.414	2.02E-181	1.25E+00	spermatogonia	MT-CO2
IRS2	1.05E-52	1.192648196	0.448	0.169	6.44E-48	2.65E+00	macrophages	IRS2
PROCA1	0	1.192182995	0.868	0.621	0	1.397745572	spermatid	PROCA1
RPL34	5.22E-117	1.192078927	0.98	0.905	3.20E-112	1.08E+00	endotheliocyte	RPL34
ACTN41	3.38E-235	1.191879921	0.655	0.155	2.07E-230	4.23E+00	VSM_cells	ACTN4
SCML1	0	1.191640523	0.421	0.197	0	2.137055838	spermatogonia	SCML1
HPRT11	0	1.191150444	0.509	0.141	0	3.609929078	Sertoli_cells	HPRT1
HSPA1L	0	1.191018424	0.663	0.234	0	2.833333333	spermatid	HSPA1L
HSPB12	0	1.190156823	0.722	0.196	0	3.683673469	PTM_cells	HSPB1
ZFP36L23	0	1.190114711	0.682	0.121	0	5.636363636	PTM_cells	ZFP36L2
COL1A21	0	1.189935716	0.76	0.153	0	4.967320261	PTM_cells	COL1A2
TSSK2	0	1.189296809	0.814	0.438	0	1.858447489	spermatid	TSSK2
FN11	0	1.188320298	0.567	0.065	0	8.723076923	Leydig_cells	FN1
AHNAK4	1.54E-281	1.1877623	0.753	0.162	9.45E-277	4.65E+00	VSM_cells	AHNAK
FDXR	0	1.187755739	0.43	0.088	0	4.886363636	Sertoli_cells	FDXR
HLA.DMB	0	1.187721201	0.286	0.001	0	286	macrophages	HLA.DMB
PEMT	0	1.187249853	0.61	0.082	0	7.43902439	PTM_cells	PEMT
CCNL1	3.18E-156	1.187100527	0.816	0.34	1.95E-151	2.40E+00	endotheliocyte	CCNL1
H1FNT	0	1.186979413	0.867	0.488	0	1.776639344	spermatid	H1FNT
TCEAL2	0	1.186787409	0.396	0.034	0	11.64705882	Sertoli_cells	TCEAL2
RPLP16	8.69E-13	1.186660214	0.947	0.766	5.33E-08	1.24E+00	T_cells	RPLP1
LINC01016	0	1.186592644	0.938	0.352	0	2.664772727	spermatocyte	LINC01016
LINC00936	9.95E-195	1.186434555	0.38	0.039	6.10E-190	9.74E+00	macrophages	LINC00936
IFIT3	0	1.186087643	0.516	0.024	0	21.5	endotheliocyte	IFIT3
ESAM	0	1.18564561	0.618	0.014	0	44.14285714	endotheliocyte	ESAM
RPL36	2.43E-118	1.185285758	0.903	0.699	1.49E-113	1.29E+00	endotheliocyte	RPL36
NEGR1	0	1.184893907	0.519	0.036	0	14.41666667	Leydig_cells	NEGR1
NDUFA4L2	1.43E-226	1.184287472	0.368	0.048	8.78E-222	7.67E+00	VSM_cells	NDUFA4L2
RPL232	0	1.184259527	0.909	0.694	0	1.309798271	Leydig_cells	RPL23
FAM71F1	0	1.184216604	0.778	0.391	0	1.989769821	spermatid	FAM71F1
COL6A21	0	1.183977619	0.739	0.093	0	7.946236559	PTM_cells	COL6A2
SCP2D1	0	1.183189377	0.659	0.178	0	3.702247191	spermatid	SCP2D1
MT-ND15	5.82E-41	1.182833515	0.488	0.406	3.57E-36	1.20E+00	Sertoli_cells	MT-ND1
ACE	0	1.182582294	0.778	0.379	0	2.052770449	spermatid	ACE
CALCRL	0	1.181930641	0.6	0.006	0	100	endotheliocyte	CALCRL
HLA-C1	1.06E-19	1.181879096	0.337	0.176	6.48E-15	1.91E+00	macrophages	HLA-C
06-Sep	0	1.18091148	0.414	0.054	0	7.666666667	Sertoli_cells	06-Sep
TGFBR2	0	1.180118694	0.573	0.023	0	24.91304348	endotheliocyte	TGFBR2
NDUFA41	1.38E-128	1.180068949	0.827	0.521	8.45E-124	1.59E+00	VSM_cells	NDUFA4
NET1	3.46E-207	1.180000092	0.575	0.132	2.12E-202	4.36E+00	VSM_cells	NET1
RILPL21	1.50E-112	1.179874574	0.397	0.072	9.18E-108	5.51E+00	macrophages	RILPL2
SPATA12	0	1.179719401	0.692	0.174	0	3.977011494	spermatid	SPATA12

SMKR1	0	1.179708153	0.884	0.575	0	1.537391304	spermatid	SMKR1
FBN1	0	1.179613801	0.555	0.108	0	5.138888889	Leydig_cells	FBN1
LEMD1	0	1.179408494	0.76	0.324	0	2.345679012	spermatid	LEMD1
ABLIM1	6.07E-273	1.179025351	0.652	0.271	3.72E-268	2.41E+00	Leydig_cells	ABLIM1
PRSS58	0	1.178982652	0.547	0.117	0	4.675213675	spermatid	PRSS58
NFKBIA6	4.51E-10	1.178935348	0.579	0.214	2.77E-05	2.71E+00	T_cells	NFKBIA
CLGN	0	1.178703266	0.972	0.389	0	2.498714653	spermatocyte	CLGN
MTCO1P12	0	1.177774832	0.379	0.177	0	2.141242938	spermatogonia	MTCO1P12
OTUB2	0	1.176821516	0.67	0.233	0	2.875536481	spermatid	OTUB2
F8	0	1.176540286	0.591	0.018	0	32.83333333	endotheliocyte	F8
LDB2	0	1.176116554	0.623	0.026	0	23.96153846	endotheliocyte	LDB2
CXCL1	1.41E-169	1.175899616	0.131	0.005	8.68E-165	2.62E+01	macrophages	CXCL1
RPL412	0	1.175891233	0.955	0.78	0	1.224358974	Leydig_cells	RPL41
CLMN	0	1.175457952	0.66	0.26	0	2.538461538	spermatid	CLMN
TFAM	0	1.175301117	0.73	0.424	0	1.721698113	spermatid	TFAM
RPL183	0	1.174511111	0.881	0.558	0	1.578853047	PTM_cells	RPL18
LYRM5	0	1.17442062	0.917	0.334	0	2.745508982	spermatocyte	LYRM5
ZFP36L1	1.13E-145	1.173945971	0.856	0.391	6.93E-141	2.19E+00	endotheliocyte	ZFP36L1
ACSBG2	0	1.173266981	0.778	0.383	0	2.031331593	spermatid	ACSBG2
RPL393	0	1.172845435	0.794	0.256	0	3.1015625	PTM_cells	RPL39
CCDC173	0	1.172021164	0.991	0.48	0	2.064583333	spermatocyte	CCDC173
NPC21	2.73E-58	1.172006432	0.721	0.443	1.67E-53	1.63E+00	macrophages	NPC2
MT2A1	4.88E-225	1.171968753	0.567	0.218	2.99E-220	2.60E+00	Leydig_cells	MT2A
ISG20L2	0	1.171852002	0.77	0.436	0	1.766055046	spermatid	ISG20L2
HLA-F1	1.98E-31	1.171844426	0.474	0.057	1.21E-26	8.32E+00	T_cells	HLA-F
ITGB12	2.14E-238	1.171453281	0.784	0.206	1.31E-233	3.81E+00	VSM_cells	ITGB1
CCDC28B	0	1.171229551	0.4	0.07	0	5.714285714	Sertoli_cells	CCDC28B
ACTL9	0	1.170685137	0.744	0.31	0	2.4	spermatid	ACTL9
PRDX6	2.40E-276	1.169927424	0.744	0.625	1.47E-271	1.19E+00	Sertoli_cells	PRDX6
SPATA18	0	1.169745379	0.755	0.349	0	2.163323782	spermatid	SPATA18
B2M4	1.81E-278	1.169560139	0.899	0.241	1.11E-273	3.73E+00	VSM_cells	B2M
RPS191	8.95E-140	1.16908061	0.958	0.756	5.49E-135	1.27E+00	endotheliocyte	RPS19
C10orf82	0	1.168513507	0.76	0.361	0	2.105263158	spermatid	C10orf82
CCDC62	0	1.167739491	0.977	0.298	0	3.27852349	spermatocyte	CCDC62
GSN3	0	1.167628153	0.75	0.188	0	3.989361702	PTM_cells	GSN
C17orf74	0	1.16709969	0.681	0.186	0	3.661290323	spermatid	C17orf74
MT-CO25	6.73E-11	1.166591976	0.816	0.436	4.13E-06	1.87E+00	T_cells	MT-CO2
TEX35	0	1.16492325	0.771	0.386	0	1.997409326	spermatid	TEX35
CASC5	0	1.164692089	0.68	0.222	0	3.063063063	spermatogonia	CASC5
NFIA	0	1.164439691	0.643	0.197	0	3.263959391	Leydig_cells	NFIA
IFI6	0	1.164181979	0.65	0.089	0	7.303370787	endotheliocyte	IFI6
PLAC91	0	1.163432819	0.606	0.061	0	9.93442623	PTM_cells	PLAC9
IGFBP21	0	1.16320792	0.538	0.115	0	4.67826087	PTM_cells	IGFBP2
ADGRF5	0	1.162702155	0.516	0.036	0	14.33333333	endotheliocyte	ADGRF5
BCAP31	0	1.16247561	0.57	0.14	0	4.071428571	spermatogonia	BCAP31
RPS84	5.10E-129	1.161458988	0.896	0.774	3.13E-124	1.16E+00	VSM_cells	RPS8
IRF14	1.00E-136	1.160449795	0.63	0.216	6.16E-132	2.92E+00	VSM_cells	IRF1
MT-CO16	8.77E-11	1.160332997	0.816	0.453	5.38E-06	1.80E+00	T_cells	MT-CO1
GNB2L1	1.30E-74	1.160307049	0.712	0.468	8.00E-70	1.52E+00	endotheliocyte	GNB2L1
EEF1A12	0	1.159985046	0.987	0.922	0	1.070498915	Leydig_cells	EEF1A1
C1orf100	0	1.159907695	0.655	0.256	0	2.55859375	spermatid	C1orf100
RPS27A5	5.41E-11	1.159704956	0.895	0.861	3.32E-06	1.04E+00	T_cells	RPS27A
CD69	0	1.159219656	0.306	0.006	0	51	macrophages	CD69
PFKFB3	5.42E-106	1.159028221	0.306	0.045	3.32E-101	6.80E+00	macrophages	PFKFB3
AC004381.6	0	1.158955475	0.988	0.466	0	2.120171674	spermatocyte	AC004381.6
PTMS3	7.98E-247	1.158769228	0.786	0.204	4.89E-242	3.85E+00	VSM_cells	PTMS
FCGRT1	1.24E-74	1.158606508	0.545	0.191	7.63E-70	2.85E+00	macrophages	FCGRT
SPTBN12	0	1.158599439	0.764	0.281	0	2.71886121	PTM_cells	SPTBN1
EDN1	2.16E-219	1.158274387	0.308	0.029	1.32E-214	1.06E+01	endotheliocyte	EDN1
RPS293	8.28E-16	1.158075908	0.947	0.886	5.08E-11	1.07E+00	T_cells	RPS29
SPTY2D1.AS1	0	1.157466453	0.389	0.158	0	2.462025316	spermatid	SPTY2D1.AS1
SYNE2	4.83E-292	1.156232484	0.401	0.117	2.96E-287	3.43E+00	Sertoli_cells	SYNE2
RPL27A	4.26E-148	1.156193708	0.955	0.785	2.61E-143	1.22E+00	endotheliocyte	RPL27A
ST6GALNAC2	0	1.155524459	0.74	0.333	0	2.222222222	spermatid	ST6GALNAC2
GUCY1A3	0	1.155514646	0.575	0.008	0	71.875	VSM_cells	GUCY1A3
CTGF1	0	1.155092412	0.483	0.051	0	9.470588235	PTM_cells	CTGF
TRGC2	2.46E-22	1.154485228	0.289	0.029	1.51E-17	9.97E+00	T_cells	TRGC2
AHNAK1	6.44E-95	1.154433345	0.586	0.168	3.95E-90	3.49E+00	macrophages	AHNAK
RPL8	6.07E-148	1.153994163	0.953	0.854	3.72E-143	1.12E+00	endotheliocyte	RPL8
RPL214	0	1.153922848	0.912	0.455	0	2.004395604	PTM_cells	RPL21
JUND2	1.12E-217	1.153840877	0.781	0.492	6.87E-213	1.59E+00	Leydig_cells	JUND
HLA-DQA2	0	1.153724242	0.276	0.004	0	69	macrophages	HLA-DQA2
PTRF1	0	1.153538591	0.612	0.099	0	6.181818182	Leydig_cells	PTRF
RPL64	1.70E-127	1.153207381	0.875	0.681	1.04E-122	1.28E+00	VSM_cells	RPL6
HORMAD1	0	1.152618246	0.632	0.404	0	1.564356436	spermatogonia	HORMAD1

AARD	6.23E-265	1.152473007	0.475	0.186	3.82E-260	2.55E+00	Sertoli_cells	AARD
CFLAR1	3.76E-54	1.151379353	0.556	0.263	2.31E-49	2.11E+00	macrophages	CFLAR
OGN2	4.60E-227	1.15111707	0.465	0.072	2.82E-222	6.46E+00	VSM_cells	OGN
RAC22	2.52E-274	1.150653777	0.421	0.005	1.54E-269	8.42E+01	T_cells	RAC2
RP5.1023B21.1	0	1.149621915	0.379	0.108	0	3.509259259	spermatocyte	RP5.1023B21.1
PRF1	0	1.14859051	0.368	0	0	#DIV/0!	T_cells	PRF1
SNRPC	0	1.148132833	0.952	0.416	0	2.288461538	spermatocyte	SNRPC
TSPO	0	1.147741886	0.643	0.084	0	7.654761905	endotheliocyte	TSPO
FNDC8	0	1.147612252	0.664	0.176	0	3.772727273	spermatid	FNDC8
FAM134B	0	1.146976817	0.734	0.275	0	2.669090909	spermatid	FAM134B
SSPN1	0	1.146466351	0.653	0.069	0	9.463768116	PTM_cells	SSPN
EGFR	0	1.146376351	0.506	0.049	0	10.32653061	Leydig_cells	EGFR
ZEB2	1.20E-139	1.146153985	0.458	0.078	7.38E-135	5.87E+00	macrophages	ZEB2
EFNB2	0	1.145925026	0.558	0.02	0	27.9	endotheliocyte	EFNB2
RPL37	1.85E-159	1.145880837	0.97	0.803	1.13E-154	1.21E+00	endotheliocyte	RPL37
VIM3	0	1.145861632	0.912	0.429	0	2.125874126	PTM_cells	VIM
RPL115	1.06E-13	1.14537865	0.947	0.826	6.50E-09	1.15E+00	T_cells	RPL11
GTF2A2	0	1.144773243	0.989	0.683	0	1.448023426	spermatocyte	GTF2A2
SOCS34	8.01E-294	1.144648977	0.666	0.117	4.92E-289	5.69E+00	VSM_cells	SOCS3
TUBB1	0	1.144316889	0.715	0.23	0	3.108695652	Leydig_cells	TUBB
SLC25A41	1.02E-204	1.144310993	0.436	0.191	6.25E-200	2.28E+00	Sertoli_cells	SLC25A4
ACTRT2	0	1.143980063	0.839	0.435	0	1.928735632	spermatid	ACTRT2
RPLP13	0	1.143913491	0.948	0.757	0	1.252311757	PTM_cells	RPLP1
CARHSP1	0	1.143749159	0.888	0.628	0	1.414012739	spermatid	CARHSP1
NGFRAP11	0	1.143372496	0.617	0.115	0	5.365217391	PTM_cells	NGFRAP1
DCN1	0	1.142679619	0.842	0.121	0	6.958677686	PTM_cells	DCN
HLA-DMA1	4.12E-261	1.142501509	0.283	0.015	2.53E-256	1.89E+01	macrophages	HLA-DMA
FBLN5	0	1.140763631	0.529	0.078	0	6.782051282	Leydig_cells	FBLN5
APP1	0	1.140695341	0.75	0.328	0	2.286585366	Leydig_cells	APP
MAF	2.71E-125	1.140666247	0.424	0.072	1.66E-120	5.89E+00	macrophages	MAF
SLC25A25	0	1.140283424	0.573	0.052	0	11.01923077	endotheliocyte	SLC25A25
HSPA1B2	0	1.139868601	0.607	0.178	0	3.41011236	Leydig_cells	HSPA1B
NR2F23	9.59E-261	1.139787009	0.729	0.16	5.89E-256	4.56E+00	VSM_cells	NR2F2
XAF1	0	1.139580375	0.581	0.039	0	14.8974359	endotheliocyte	XAF1
LY6E	0	1.139393541	0.707	0.11	0	6.427272727	endotheliocyte	LY6E
PTGES3	0	1.139057468	0.824	0.451	0	1.827050998	spermatogonia	PTGES3
MNDA	0	1.138192234	0.391	0.008	0	48.875	macrophages	MNDA
MT.ND1	2.65E-65	1.137872856	0.393	0.376	1.62E-60	1.05E+00	spermatogonia	MT.ND1
RPL415	0	1.137756244	0.895	0.78	0	1.147435897	Sertoli_cells	RPL41
RARRES2	0	1.137315346	0.565	0.065	0	8.692307692	Leydig_cells	RARRES2
TMEM31	0	1.136454822	0.654	0.257	0	2.544747082	spermatid	TMEM31
ITM2A3	3.83E-26	1.135321999	0.526	0.078	2.35E-21	6.74E+00	T_cells	ITM2A
ITGA8	0	1.135196677	0.564	0.004	0	141	VSM_cells	ITGA8
RPL65	1.72E-12	1.134489377	0.895	0.684	1.06E-07	1.31E+00	T_cells	RPL6
THY1	0	1.134395018	0.453	0.025	0	18.12	Leydig_cells	THY1
SCCPDH	0	1.134084837	0.994	0.621	0	1.600644122	spermatocyte	SCCPDH
RHOB3	0	1.13366186	0.724	0.217	0	3.33640553	PTM_cells	RHOB
TXNDC2	0	1.133497761	0.657	0.224	0	2.933035714	spermatid	TXNDC2
C10orf120	0	1.133141718	0.613	0.178	0	3.443820225	spermatid	C10orf120
MT.ND5	2.91E-115	1.132683616	0.384	0.3	1.79E-110	1.28E+00	spermatogonia	MT.ND5
MT1E	0	1.132163828	0.546	0.061	0	8.950819672	endotheliocyte	MT1E
CCDC70	0	1.131775041	0.805	0.374	0	2.152406417	spermatid	CCDC70
RPL18A4	0	1.130735533	0.85	0.396	0	2.146464646	PTM_cells	RPL18A
SMARCA11	0	1.130729821	0.455	0.116	0	3.922413793	Sertoli_cells	SMARCA1
TRIB1	3.14E-247	1.130242553	0.34	0.024	1.92E-242	1.42E+01	macrophages	TRIB1
MT.ND12	8.36E-09	1.130242518	0.351	0.381	0.000512786	0.921259843	Sertoli_cells	MT.ND1
TEX37	0	1.1302264	0.631	0.159	0	3.968553459	spermatid	TEX37
MT.ND2	1.91E-59	1.130186724	0.393	0.383	1.17E-54	1.03E+00	spermatogonia	MT.ND2
TMEM191C	0	1.129825747	0.622	0.274	0	2.270072993	spermatid	TMEM191C
EFNA1	0	1.128753745	0.529	0.014	0	37.78571429	endotheliocyte	EFNA1
KIF2B	0	1.128023939	0.739	0.331	0	2.232628399	spermatid	KIF2B
MNS1	0	1.127603544	0.976	0.389	0	2.508997429	spermatocyte	MNS1
GSTA2	0	1.12712618	0.352	0.014	0	25.14285714	Sertoli_cells	GSTA2
CRIM11	0	1.12687282	0.59	0.042	0	14.04761905	VSM_cells	CRIM1
GYG1	0	1.126662573	0.925	0.399	0	2.318295739	spermatocyte	GYG1
NR4A12	2.27E-301	1.126275614	0.634	0.242	1.39E-296	2.62E+00	PTM_cells	NR4A1
ZFP363	0	1.125799009	0.75	0.218	0	3.440366972	PTM_cells	ZFP36
SNHG8	4.33E-140	1.12546591	0.747	0.303	2.65E-135	2.47E+00	endotheliocyte	SNHG8
MT-ND54	4.08E-12	1.12546542	0.763	0.297	2.50E-07	2.57E+00	T_cells	MT-ND5
PDGFRA	0	1.12484676	0.526	0.049	0	10.73469388	Leydig_cells	PDGFRA
FYB	1.58E-141	1.124619129	0.414	0.064	9.68E-137	6.47E+00	macrophages	FYB
RSRP11	7.31E-08	1.124193705	0.553	0.282	0.004481985	1.960992908	T_cells	RSRP1
TNP2	0	1.124094274	0.475	0.134	0	3.544776119	spermatid	TNP2
ARPC1B1	9.06E-137	1.123996042	0.444	0.074	5.56E-132	6.00E+00	macrophages	ARPC1B
MT.CYB	8.29E-85	1.123525967	0.383	0.322	5.08E-80	1.19E+00	spermatogonia	MT.CYB

TEX38	0	1.123400653	0.903	0.531	0	1.700564972	spermatid	TEX38
EMP32	0	1.123233358	0.59	0.146	0	4.04109589	Leydig_cells	EMP3
PRDX22	0	1.123196057	0.646	0.083	0	7.78313253	PTM_cells	PRDX2
MAF1	0	1.122772721	0.529	0.056	0	9.446428571	Leydig_cells	MAF
ACTN4	2.04E-220	1.122427637	0.69	0.156	1.25E-215	4.42E+00	endotheliocyte	ACTN4
SPATA20	0	1.12219738	0.78	0.399	0	1.954887218	spermatid	SPATA20
MT-ND4L2	5.94E-225	1.121773447	0.715	0.176	3.65E-220	4.06E+00	VSM_cells	MT-ND4L
CCT6B	0	1.12148102	0.991	0.492	0	2.014227642	spermatocyte	CCT6B
SPINT2	0	1.121256508	0.777	0.453	0	1.715231788	spermatogonia	SPINT2
B2M3	0	1.12120889	0.888	0.22	0	4.036363636	PTM_cells	B2M
TUBA4A	0	1.121182489	0.657	0.188	0	3.494680851	spermatid	TUBA4A
FHL5	0	1.120662874	0.785	0.401	0	1.957605985	spermatid	FHL5
SLIT3	0	1.120347206	0.577	0.082	0	7.036585366	VSM_cells	SLIT3
PCOLCE	0	1.119615693	0.503	0.101	0	4.98019802	Leydig_cells	PCOLCE
BANF2	0	1.119243498	0.708	0.273	0	2.593406593	spermatid	BANF2
HSP90AA1	0	1.11843778	0.983	0.844	0	1.164691943	spermatogonia	HSP90AA1
TMCO5A	0	1.118417922	0.85	0.469	0	1.812366738	spermatid	TMCO5A
MT-CO1	2.21E-164	1.117629406	0.521	0.435	1.36E-159	1.20E+00	spermatogonia	MT-CO1
UBL4B	0	1.117262681	0.828	0.461	0	1.796095445	spermatid	UBL4B
PTGER4	7.49E-113	1.117167741	0.397	0.073	4.60E-108	5.44E+00	macrophages	PTGER4
LPIN1	0	1.116924348	0.708	0.326	0	2.171779141	spermatid	LPIN1
KDM6B	2.97E-51	1.116676153	0.512	0.226	1.82E-46	2.27E+00	macrophages	KDM6B
ID4	2.73E-216	1.116524662	0.514	0.092	1.68E-211	5.59E+00	VSM_cells	ID4
MMRN2	0	1.116377598	0.568	0.008	0	71	endotheliocyte	MMRN2
CDKN1A3	4.48E-224	1.116099868	0.6	0.122	2.75E-219	4.92E+00	VSM_cells	CDKN1A
GKAP1	0	1.115976427	0.994	0.672	0	1.479166667	spermatocyte	GKAP1
GMPR	0	1.115784926	0.399	0.096	0	4.15625	Sertoli_cells	GMPR
VEGFA	1.42E-268	1.115361063	0.34	0.022	8.72E-264	1.55E+01	macrophages	VEGFA
RP5.1052M9.12	2.32E-57	1.114761138	0.35	0.202	1.43E-52	1.73E+00	Leydig_cells	RP5.1052M9.1
CKS2	0	1.114743437	0.804	0.373	0	2.155495979	spermatogonia	CKS2
RPL413	0	1.114402186	0.93	0.78	0	1.192307692	PTM_cells	RPL41
MAP3K81	3.01E-291	1.114324377	0.391	0.027	1.85E-286	1.45E+01	macrophages	MAP3K8
FLRT2	0	1.113798876	0.523	0.046	0	11.36956522	Leydig_cells	FLRT2
GSTM5	0	1.112910242	0.47	0.058	0	8.103448276	Leydig_cells	GSTM5
CSRP1	0	1.112255012	0.613	0.092	0	6.663043478	PTM_cells	CSRP1
HMGB1	0	1.111879515	0.765	0.493	0	1.551724138	spermatogonia	HMGB1
SH3BGRL5	0	1.11067493	0.67	0.103	0	6.504854369	VSM_cells	SH3BGRL
RPL63	0	1.108946256	0.891	0.673	0	1.323922734	PTM_cells	RPL6
GIMAP4	0	1.107603444	0.6	0.003	0	200	endotheliocyte	GIMAP4
MT.CO12	6.59E-15	1.107295219	0.35	0.339	4.04E-10	1.03E+00	Sertoli_cells	MT.CO1
GPR1831	3.86E-45	1.107271701	0.289	0.014	2.37E-40	2.06E+01	T_cells	GPR183
ICAM3	2.34E-15	1.107108716	0.395	0.078	1.43E-10	5.06E+00	T_cells	ICAM3
DPEP1	0	1.10689794	0.568	0.153	0	3.712418301	Leydig_cells	DPEP1
CD37	3.34E-91	1.106878886	0.505	0.138	2.05E-86	3.66E+00	macrophages	CD37
EID12	0	1.105594623	0.78	0.345	0	2.260869565	PTM_cells	EID1
EEF1A16	2.55E-15	1.105122166	0.974	0.925	1.56E-10	1.05E+00	T_cells	EEF1A1
C11orf96	0	1.104558804	0.705	0.258	0	2.73255814	Leydig_cells	C11orf96
S100A63	0	1.104436364	0.691	0.105	0	6.580952381	PTM_cells	S100A6
SYNPO21	0	1.104246504	0.598	0.051	0	11.7254902	VSM_cells	SYNPO2
TRIM36	0	1.104152115	0.867	0.631	0	1.374009509	spermatid	TRIM36
DPT	0	1.103779379	0.454	0.029	0	15.65517241	Leydig_cells	DPT
TXNIP4	1.94E-11	1.103300395	0.553	0.174	1.19E-06	3.18E+00	T_cells	TXNIP
PRPS21	0	1.103260502	0.609	0.071	0	8.577464789	PTM_cells	PRPS2
PSMD1	0	1.103137701	0.658	0.155	0	4.24516129	spermatogonia	PSMD1
FTH12	0	1.102735229	0.969	0.712	0	1.360955056	Leydig_cells	FTH1
SLC25A64	6.95E-242	1.10254489	0.755	0.186	4.26E-237	4.06E+00	VSM_cells	SLC25A6
VCX3B	0	1.102279442	0.486	0.115	0	4.226086957	spermatogonia	VCX3B
LRP11	0	1.102180729	0.562	0.064	0	8.78125	Leydig_cells	LRP1
DUSP12	0	1.102081439	0.65	0.166	0	3.915662651	Leydig_cells	DUSP1
PPIB1	0	1.100648308	0.695	0.273	0	2.545787546	PTM_cells	PPIB
SMC4	0	1.100422665	0.749	0.352	0	2.127840909	spermatogonia	SMC4
RPL265	1.04E-11	1.100397856	0.895	0.755	6.40E-07	1.19E+00	T_cells	RPL26
IQGAP2	0	1.100035781	0.743	0.38	0	1.955263158	spermatid	IQGAP2
VCX	0	1.099264382	0.472	0.13	0	3.630769231	spermatogonia	VCX
PRRX1	1.55E-264	1.09886664	0.75	0.393	9.48E-260	1.91E+00	Leydig_cells	PRRX1
SNED1	0	1.098710445	0.494	0.041	0	12.04878049	Leydig_cells	SNED1
GPSM31	4.77E-40	1.098674797	0.368	0.027	2.93E-35	1.36E+01	T_cells	GPSM3
14-Sep	0	1.0985805	0.374	0.016	0	23.375	Sertoli_cells	14-Sep
MTUS1	1.09E-228	1.098274234	0.625	0.124	6.66E-224	5.04E+00	endotheliocyte	MTUS1
ZFAND51	1.96E-28	1.098211777	0.63	0.485	1.20E-23	1.30E+00	macrophages	ZFAND5
SEPW11	1.69E-126	1.097504363	0.812	0.53	1.04E-121	1.53E+00	VSM_cells	SEPW1
KLF64	3.84E-167	1.097205163	0.759	0.283	2.36E-162	2.68E+00	VSM_cells	KLF6
TSSK1B	0	1.096826745	0.743	0.321	0	2.314641745	spermatid	TSSK1B
RPL9	1.96E-154	1.096096034	0.97	0.873	1.20E-149	1.11E+00	endotheliocyte	RPL9
RPS144	6.67E-138	1.096072503	0.941	0.829	4.09E-133	1.14E+00	VSM_cells	RPS14

ZPBP	0	1.095913439	0.988	0.48	0	2.058333333	spermatocyte	ZPBP
EIF4E	0	1.095828168	0.771	0.492	0	1.567073171	spermatid	EIF4E
SPTY2D1-AS1	8.38E-277	1.095272159	0.506	0.437	5.14E-272	1.16E+00	spermatid	SPTY2D1-AS1
ECM2	0	1.095150564	0.514	0.044	0	11.68181818	Leydig_cells	ECM2
RPL10P32	5.78E-275	1.094791612	0.287	0.046	3.54E-270	6.24E+00	Leydig_cells	RPL10P3
HLA-E1	5.82E-57	1.094720724	0.333	0.086	3.57E-52	3.87E+00	macrophages	HLA-E
CD634	1.92E-183	1.094631106	0.82	0.283	1.18E-178	2.90E+00	VSM_cells	CD63
NFKB1	1.85E-104	1.094193086	0.391	0.074	1.13E-99	5.28E+00	macrophages	NFKB1
LMNA	1.88E-125	1.094074886	0.784	0.366	1.15E-120	2.14E+00	endotheliocyte	LMNA
FXVD6	0	1.093906174	0.595	0.093	0	6.397849462	Leydig_cells	FXVD6
RPL18A3	1.84E-260	1.093560693	0.803	0.401	1.13E-255	2.00E+00	Leydig_cells	RPL18A
DUSP13	0	1.093369603	0.671	0.161	0	4.167701863	PTM_cells	DUSP1
ACTB2	0	1.093308235	0.925	0.572	0	1.617132867	Leydig_cells	ACTB
C1S1	0	1.093098148	0.681	0.076	0	8.960526316	PTM_cells	C1S
PDLIM1	7.68E-289	1.092850036	0.605	0.091	4.71E-284	6.65E+00	endotheliocyte	PDLIM1
CRISPLD21	0	1.092630202	0.612	0.1	0	6.12	PTM_cells	CRISPLD2
RPL306	4.69E-15	1.092321233	0.947	0.879	2.87E-10	1.08E+00	T_cells	RPL30
HHIP	0	1.092075877	0.468	0.015	0	31.2	Leydig_cells	HHIP
RPL125	5.08E-09	1.091666505	0.816	0.635	0.000311604	1.28503937	T_cells	RPL12
CBX1	0	1.091212379	0.716	0.232	0	3.086206897	spermatogonia	CBX1
MYH9	1.64E-183	1.090737106	0.643	0.157	1.01E-178	4.10E+00	endotheliocyte	MYH9
EGR15	3.04E-68	1.090456843	0.386	0.255	1.87E-63	1.51E+00	Sertoli_cells	EGR1
SDCBP	5.15E-183	1.090142545	0.687	0.185	3.16E-178	3.71E+00	endotheliocyte	SDCBP
RPS182	0	1.090066004	0.973	0.848	0	1.14740566	Leydig_cells	RPS18
SERPINF11	0	1.089352973	0.698	0.122	0	5.721311475	PTM_cells	SERPINF1
PFN4	0	1.089152562	0.949	0.304	0	3.121710526	spermatocyte	PFN4
RP5-942I16.1	0	1.08874198	0.564	0.228	0	2.473684211	spermatocyte	RP5-942I16.1
SDPR	0	1.087204731	0.444	0.038	0	11.68421053	endotheliocyte	SDPR
GS1-259H13.2	0	1.08717613	0.565	0.233	0	2.424892704	spermatocyte	GS1-259H13.2
SOD21	1.42E-31	1.086753643	0.623	0.5	8.71E-27	1.25E+00	macrophages	SOD2
NEXN	0	1.086496872	0.584	0.09	0	6.488888889	PTM_cells	NEXN
MSN1	4.79E-159	1.085204053	0.455	0.067	2.94E-154	6.79E+00	macrophages	MSN
RASGEF1B	0	1.085114794	0.384	0.017	0	22.58823529	macrophages	RASGEF1B
PHOSPHO1	0	1.085054286	0.592	0.162	0	3.654320988	spermatid	PHOSPHO1
MBNL11	3.37E-102	1.084749967	0.458	0.101	2.07E-97	4.53E+00	macrophages	MBNL1
RPS12	0	1.084612316	0.903	0.815	0	1.10797546	spermatogonia	RPS12
SPAG6	0	1.084254332	0.949	0.312	0	3.041666667	spermatocyte	SPAG6
SPTBN1	7.27E-147	1.083358676	0.789	0.298	4.46E-142	2.65E+00	endotheliocyte	SPTBN1
SLC2A33	5.81E-12	1.082967705	0.395	0.093	3.56E-07	4.25E+00	T_cells	SLC2A3
FAM110D	0	1.082843095	0.469	0.002	0	234.5	endotheliocyte	FAM110D
EIF1B	0	1.082792279	0.755	0.447	0	1.689038031	spermatogonia	EIF1B
C12orf54	0	1.08267786	0.674	0.291	0	2.316151203	spermatid	C12orf54
NR4A13	2.32E-149	1.082498431	0.706	0.254	1.42E-144	2.78E+00	VSM_cells	NR4A1
NAA20	0	1.082432973	0.966	0.378	0	2.555555556	spermatocyte	NAA20
ADAMTS13	5.72E-262	1.082095574	0.537	0.083	3.51E-257	6.47E+00	VSM_cells	ADAMTS1
SDC4	0	1.081637305	0.337	0.021	0	16.04761905	Sertoli_cells	SDC4
KIAA1210	0	1.081445973	0.36	0.018	0	20	Sertoli_cells	KIAA1210
TBX2	0	1.080376078	0.497	0.027	0	18.40740741	VSM_cells	TBX2
HDGFL1	0	1.080174314	0.973	0.428	0	2.273364486	spermatocyte	HDGFL1
SPACA3	0	1.079896565	0.776	0.392	0	1.979591837	spermatid	SPACA3
CD93	0	1.079894421	0.541	0.02	0	27.05	endotheliocyte	CD93
GRN1	5.57E-91	1.079813361	0.505	0.132	3.41E-86	3.83E+00	macrophages	GRN
PKDCC	0	1.079063574	0.435	0.044	0	9.886363636	Leydig_cells	PKDCC
CRIP1	0	1.078837251	0.524	0.014	0	37.42857143	VSM_cells	CRIP1
ANXA2	4.03E-159	1.078539375	0.804	0.289	2.47E-154	2.78E+00	endotheliocyte	ANXA2
MS4A2	1.02E-90	1.078382808	0.18	0.004	6.24E-86	4.50E+01	mastocyte	MS4A2
CCDC185	0	1.07798541	0.573	0.164	0	3.493902439	spermatid	CCDC185
RNPS1	0	1.077603043	0.711	0.21	0	3.385714286	spermatogonia	RNPS1
DAB21	7.00E-97	1.076804717	0.313	0.049	4.29E-92	6.39E+00	macrophages	DAB2
MAP1B3	7.07E-241	1.076764263	0.416	0.146	4.34E-236	2.85E+00	Sertoli_cells	MAP1B
SPARCL11	0	1.076576176	0.784	0.14	0	5.6	Leydig_cells	SPARCL1
COL3A11	0	1.076415256	0.637	0.151	0	4.218543046	PTM_cells	COL3A1
LMNA1	7.34E-34	1.076404098	0.582	0.37	4.50E-29	1.57E+00	macrophages	LMNA
DNAJA4	0	1.075654541	0.775	0.451	0	1.718403548	spermatid	DNAJA4
HSPA1A5	3.51E-19	1.074970248	0.369	0.363	2.15E-14	1.02E+00	Sertoli_cells	HSPA1A
NUCKS11	1.36E-267	1.074297792	0.742	0.387	8.35E-263	1.92E+00	Leydig_cells	NUCKS1
KLF6	1.68E-139	1.074170322	0.752	0.285	1.03E-134	2.64E+00	endotheliocyte	KLF6
MT-ND43	7.73E-266	1.073596272	0.788	0.4	4.74E-261	1.97E+00	PTM_cells	MT-ND4
CEP170	0	1.073410956	0.731	0.423	0	1.728132388	spermatid	CEP170
AURKA	0	1.07316644	0.757	0.173	0	4.375722543	spermatocyte	AURKA
CRHBP	0	1.073064069	0.449	0.006	0	74.83333333	endotheliocyte	CRHBP
LINC01350	0	1.073018182	0.664	0.233	0	2.849785408	spermatid	LINC01350
MT-ATP62	2.97E-88	1.072513754	0.61	0.427	1.82E-83	1.43E+00	Leydig_cells	MT-ATP6
CAV12	0	1.072208093	0.671	0.077	0	8.714285714	PTM_cells	CAV1
CSRP2	2.77E-111	1.072080235	0.63	0.279	1.70E-106	2.26E+00	VSM_cells	CSRP2

ELF11	5.22E-96	1.071064385	0.458	0.108	3.20E-91	4.24E+00	macrophages	ELF1
ADIRF	7.29E-223	1.070859829	0.645	0.124	4.47E-218	5.20E+00	endotheliocyte	ADIRF
C2orf88	0	1.070648098	0.72	0.449	0	1.603563474	spermatid	C2orf88
PNRC14	1.60E-135	1.069628763	0.793	0.391	9.79E-131	2.03E+00	VSM_cells	PNRC1
CH25H	0	1.069550119	0.209	0.005	0	41.8	macrophages	CH25H
BTG1	1.20E-108	1.06954412	0.856	0.607	7.34E-104	1.41E+00	endotheliocyte	BTG1
GLRX2	0	1.068347906	0.709	0.299	0	2.371237458	spermatid	GLRX2
FBXO25	0	1.068185589	0.984	0.514	0	1.914396887	spermatocyte	FBXO25
PNRC1	1.66E-123	1.068027613	0.801	0.392	1.02E-118	2.04E+00	endotheliocyte	PNRC1
RPL182	1.10E-268	1.067955012	0.875	0.56	6.76E-264	1.56E+00	Leydig_cells	RPL18
SMIM10	0	1.067626117	0.372	0.048	0	7.75	Sertoli_cells	SMIM10
H2AFJ	0	1.067607145	0.996	0.767	0	1.298565841	spermatocyte	H2AFJ
SFRP4	0	1.067575362	0.382	0.04	0	9.55	Leydig_cells	SFRP4
IQGAP11	2.63E-64	1.067154355	0.492	0.17	1.61E-59	2.89E+00	macrophages	IQGAP1
NDUFA4	4.82E-267	1.067132426	0.787	0.513	2.95E-262	1.53E+00	PTM_cells	NDUFA4
ZPBP2	0	1.06633555	0.966	0.399	0	2.421052632	spermatocyte	ZPBP2
PAGE2B	0	1.063196385	0.497	0.111	0	4.477477477	spermatogonia	PAGE2B
TM4SF18	0	1.063035687	0.491	0.006	0	81.833333333	endotheliocyte	TM4SF18
CD4	6.77E-216	1.062656913	0.34	0.028	4.16E-211	1.21E+01	macrophages	CD4
KANK21	0	1.061919045	0.591	0.053	0	11.1509434	PTM_cells	KANK2
NOSTRIN	1.47E-111	1.061846603	0.591	0.224	9.02E-107	2.64E+00	endotheliocyte	NOSTRIN
TCF4	7.44E-127	1.061678617	0.749	0.328	4.56E-122	2.28E+00	endotheliocyte	TCF4
PTMA2	5.03E-90	1.061424259	0.953	0.653	3.08E-85	1.46E+00	macrophages	PTMA
IZUMO4	0	1.061386838	0.991	0.669	0	1.481315396	spermatocyte	IZUMO4
NPDC1	0	1.061356035	0.6	0.068	0	8.823529412	endotheliocyte	NPDC1
MT-ND16	1.18E-09	1.061143185	0.789	0.411	7.27E-05	1.92E+00	T_cells	MT-ND1
LDLR	2.99E-286	1.060730166	0.524	0.066	1.83E-281	7.94E+00	endotheliocyte	LDLR
NRDC	0	1.060098263	0.814	0.495	0	1.644444444	spermatid	NRDC
CD992	0	1.059604266	0.742	0.169	0	4.390532544	PTM_cells	CD99
AHNAK3	0	1.059266749	0.696	0.145	0	4.8	PTM_cells	AHNAK
PTCH11	0	1.059134645	0.601	0.175	0	3.434285714	PTM_cells	PTCH1
C4orf48	1.55E-31	1.058981249	0.327	0.267	9.54E-27	1.22E+00	Sertoli_cells	C4orf48
MEF2C2	2.58E-219	1.058432719	0.619	0.147	1.58E-214	4.21E+00	VSM_cells	MEF2C
SPATA6	0	1.057958661	0.866	0.638	0	1.357366771	spermatid	SPATA6
OGN1	0	1.057936178	0.607	0.052	0	11.67307692	PTM_cells	OGN
TMEM130	0	1.057319313	0.331	0.018	0	18.38888889	Sertoli_cells	TMEM130
HSP90AB1	0	1.057286621	0.899	0.669	0	1.343796712	spermatogonia	HSP90AB1
LY6E1	0	1.057105587	0.562	0.1	0	5.62	Leydig_cells	LY6E
APH1B	0	1.0569322	0.992	0.585	0	1.695726496	spermatocyte	APH1B
EMCN	0	1.056736333	0.553	0.003	0	184.3333333	endotheliocyte	EMCN
SLC7A5	0	1.056590348	0.34	0.033	0	10.3030303	Sertoli_cells	SLC7A5
CST32	0	1.056127669	0.859	0.41	0	2.095121951	PTM_cells	CST3
MORF4L21	0	1.056018973	0.696	0.3	0	2.32	PTM_cells	MORF4L2
DAZL	0	1.05592653	0.687	0.333	0	2.063063063	spermatogonia	DAZL
RGCC	0	1.055846454	0.762	0.125	0	6.096	spermatocyte	RGCC
FAM71E1	0	1.05581497	0.807	0.496	0	1.627016129	spermatid	FAM71E1
A2M2	3.32E-307	1.055802396	0.634	0.105	2.04E-302	6.04E+00	VSM_cells	A2M
PTRF2	0	1.055697097	0.671	0.092	0	7.293478261	PTM_cells	PTRF
ENG	0	1.055516562	0.744	0.101	0	7.366336634	endotheliocyte	ENG
TMSB4X2	0	1.054390109	0.908	0.314	0	2.891719745	Leydig_cells	TMSB4X
C9orf24	0	1.054342839	0.784	0.442	0	1.773755656	spermatid	C9orf24
C1orf162	9.66E-91	1.05429294	0.418	0.096	5.92E-86	4.35E+00	macrophages	C1orf162
RPL10A5	6.84E-11	1.054208494	0.868	0.663	4.20E-06	1.31E+00	T_cells	RPL10A
RFPL3S	0	1.053985307	0.707	0.316	0	2.237341772	spermatid	RFPL3S
GIMAP1	0	1.053501648	0.551	0.002	0	275.5	endotheliocyte	GIMAP1
ASRGL1	0	1.053407162	0.96	0.482	0	1.991701245	spermatocyte	ASRGL1
CCIN	0	1.053195229	0.671	0.3	0	2.236666667	spermatid	CCIN
MYADM1	1.27E-212	1.052694682	0.546	0.21	7.81E-208	2.60E+00	Leydig_cells	MYADM
RPS4X5	0	1.05213984	0.81	0.318	0	2.547169811	Sertoli_cells	RPS4X
ZFAS1	9.08E-129	1.051917456	0.692	0.262	5.57E-124	2.64E+00	endotheliocyte	ZFAS1
RPL27A4	6.42E-123	1.051687049	0.89	0.785	3.94E-118	1.13E+00	VSM_cells	RPL27A
PRH1	0	1.051672237	0.672	0.263	0	2.55513308	spermatid	PRH1
SOX18	1.72E-120	1.051657828	0.524	0.155	1.06E-115	3.38E+00	endotheliocyte	SOX18
NDRG2	0	1.050426519	0.497	0.063	0	7.888888889	Leydig_cells	NDRG2
FAM205C	0	1.050278917	0.601	0.113	0	5.318584071	spermatid	FAM205C
CHMP1B	4.13E-21	1.049897432	0.391	0.224	2.53E-16	1.75E+00	macrophages	CHMP1B
TMEM210	0	1.049457505	0.678	0.292	0	2.321917808	spermatid	TMEM210
MSRB31	0	1.049305378	0.571	0.073	0	7.821917808	VSM_cells	MSRB3
DUSP51	5.01E-74	1.04882617	0.38	0.091	3.07E-69	4.18E+00	macrophages	DUSP5
KCTD122	0	1.048578006	0.51	0.071	0	7.183098592	Leydig_cells	KCTD12
G2E3	0	1.048216538	0.66	0.373	0	1.769436997	spermatid	G2E3
ITM2B	4.16E-164	1.048151145	0.873	0.319	2.55E-159	2.74E+00	endotheliocyte	ITM2B
SPATA19	0	1.047736381	0.727	0.34	0	2.138235294	spermatid	SPATA19
TMEM190	0	1.047224605	0.491	0.206	0	2.383495146	spermatid	TMEM190
FBLN2	0	1.047158475	0.504	0.071	0	7.098591549	Leydig_cells	FBLN2

RPL30	2.76E-147	1.047128415	0.973	0.877	1.70E-142	1.11E+00	endotheliocyte	RPL30
DUT	0	1.046954035	0.715	0.355	0	2.014084507	spermatogonia	DUT
LYN	0	1.046890537	0.367	0.021	0	17.47619048	macrophages	LYN
LMNA2	2.60E-267	1.046743052	0.726	0.357	1.60E-262	2.03E+00	Leydig_cells	LMNA
RHOBTB3	0	1.046622568	0.575	0.121	0	4.752066116	Leydig_cells	RHOBTB3
CX3CR1	0	1.046613869	0.323	0.004	0	80.75	macrophages	CX3CR1
C11orf71	0	1.046552538	0.835	0.614	0	1.359934853	spermatid	C11orf71
DAB22	0	1.04620679	0.492	0.033	0	14.90909091	Leydig_cells	DAB2
TPT12	0	1.045331013	0.975	0.854	0	1.141686183	Leydig_cells	TPT1
CYR612	5.39E-237	1.044637345	0.588	0.109	3.31E-232	5.39E+00	VSM_cells	CYR61
RPS27A4	2.36E-131	1.044309363	0.926	0.86	1.45E-126	1.08E+00	VSM_cells	RPS27A
GAMT1	0	1.043945392	0.387	0.091	0	4.252747253	Sertoli_cells	GAMT
MYL64	8.73E-306	1.043650028	0.802	0.656	5.35E-301	1.22E+00	Sertoli_cells	MYL6
IL7R	1.60E-69	1.043591784	0.237	0.006	9.84E-65	3.95E+01	T_cells	IL7R
RPS155	3.56E-10	1.043189129	0.895	0.766	2.18E-05	1.17E+00	T_cells	RPS15
LGALS3BP1	0	1.042971349	0.663	0.091	0	7.285714286	PTM_cells	LGALS3BP
KCTD121	4.53E-119	1.04279207	0.455	0.085	2.78E-114	5.35E+00	macrophages	KCTD12
RNASE6	0	1.042400322	0.327	0.001	0	327	macrophages	RNASE6
FXVD61	0	1.04226348	0.647	0.087	0	7.436781609	PTM_cells	FXVD6
BTG23	0	1.042177003	0.581	0.11	0	5.281818182	PTM_cells	BTG2
ARX	0	1.042068175	0.451	0.032	0	14.09375	Leydig_cells	ARX
FN12	1.91E-195	1.041741419	0.457	0.079	1.17E-190	5.78E+00	VSM_cells	FN1
ERICH2	0	1.041688401	0.772	0.527	0	1.464895636	spermatid	ERICH2
FOXC12	0	1.041595094	0.531	0.065	0	8.169230769	VSM_cells	FOXC1
C5orf47	0	1.041277528	0.631	0.331	0	1.906344411	spermatogonia	C5orf47
ENG1	0	1.04088765	0.636	0.087	0	7.310344828	Leydig_cells	ENG
RPL13A4	7.58E-118	1.040514976	0.892	0.735	4.65E-113	1.21E+00	VSM_cells	RPL13A
TMCO2	0	1.040163302	0.815	0.489	0	1.666666667	spermatid	TMCO2
FAM107A	1.24E-249	1.039817456	0.402	0.044	7.62E-245	9.14E+00	endotheliocyte	FAM107A
KLF23	0	1.039536757	0.622	0.145	0	4.289655172	PTM_cells	KLF2
LMNA4	7.94E-132	1.038897531	0.757	0.365	4.87E-127	2.07E+00	VSM_cells	LMNA
REEP1	2.75E-267	1.03873483	0.362	0.107	1.69E-262	3.38E+00	Sertoli_cells	REEP1
CLEC3B	0	1.038076697	0.485	0.085	0	5.705882353	Leydig_cells	CLEC3B
PLPP31	0	1.037803952	0.671	0.095	0	7.063157895	PTM_cells	PLPP3
KIF9	0	1.037800678	0.969	0.428	0	2.264018692	spermatocyte	KIF9
NKAPL	0	1.037505588	0.946	0.301	0	3.142857143	spermatocyte	NKAPL
RPS85	3.63E-10	1.037475108	0.868	0.776	2.23E-05	1.12E+00	T_cells	RPS8
C7orf55	0	1.037277911	0.948	0.362	0	2.61878453	spermatocyte	C7orf55
RGS101	1.04E-23	1.037099479	0.316	0.033	6.41E-19	9.58E+00	T_cells	RGS10
COTL1	9.74E-88	1.036862638	0.387	0.083	5.97E-83	4.66E+00	macrophages	COTL1
PTMA	0	1.036705059	0.916	0.585	0	1.565811966	spermatogonia	PTMA
PDLIM11	0	1.036461201	0.596	0.09	0	6.622222222	VSM_cells	PDLIM1
NFKBIA2	0	1.036400864	0.676	0.194	0	3.484536082	Leydig_cells	NFKBIA
IFI63	0	1.036257666	0.609	0.071	0	8.577464789	PTM_cells	IFI6
S100A42	8.23E-117	1.036205269	0.288	0.05	5.05E-112	5.76E+00	VSM_cells	S100A4
FRZB	0	1.035877879	0.516	0.025	0	20.64	VSM_cells	FRZB
PEBP11	1.97E-275	1.035576138	0.767	0.595	1.21E-270	1.29E+00	Sertoli_cells	PEBP1
GATM1	2.60E-278	1.035510004	0.377	0.112	1.59E-273	3.37E+00	Sertoli_cells	GATM
CD812	0	1.035122196	0.706	0.298	0	2.369127517	PTM_cells	CD81
PPIB	9.65E-237	1.035017928	0.627	0.279	5.92E-232	2.25E+00	Leydig_cells	PPIB
SRSF9	0	1.034963692	0.714	0.345	0	2.069565217	spermatogonia	SRSF9
MORN3	0	1.034700594	0.653	0.196	0	3.331632653	spermatid	MORN3
FXVD5	0	1.034307693	0.536	0.018	0	29.77777778	endotheliocyte	FXVD5
MT-CYB2	3.40E-101	1.034136896	0.608	0.389	2.09E-96	1.56E+00	Leydig_cells	MT-CYB
MT.ND31	4.14E-30	1.033896358	0.576	0.368	2.54E-25	1.57E+00	macrophages	MT.ND3
RPS15	3.39E-114	1.033851216	0.923	0.764	2.08E-109	1.21E+00	endotheliocyte	RPS15
CABYR	0	1.033688586	0.897	0.652	0	1.375766871	spermatid	CABYR
MT.ND21	2.40E-27	1.033648193	0.572	0.383	1.47E-22	1.49E+00	macrophages	MT.ND2
MSN	0	1.03352218	0.581	0.063	0	9.222222222	endotheliocyte	MSN
CD441	1.38E-209	1.033103464	0.49	0.092	8.49E-205	5.33E+00	VSM_cells	CD44
PPP1R15A4	1.05E-191	1.033017617	0.702	0.188	6.46E-187	3.73E+00	VSM_cells	PPP1R15A
ATF3	2.91E-216	1.032860886	0.615	0.112	1.79E-211	5.49E+00	endotheliocyte	ATF3
PAQR7	0	1.032503837	0.675	0.261	0	2.586206897	spermatid	PAQR7
RPS164	2.64E-126	1.032377	0.899	0.755	1.62E-121	1.19E+00	VSM_cells	RPS16
PSMB8	0	1.032128952	0.6	0.029	0	20.68965517	endotheliocyte	PSMB8
PDIA3	0	1.031738156	0.771	0.354	0	2.177966102	spermatogonia	PDIA3
PRDX21	0	1.031716599	0.585	0.09	0	6.5	Leydig_cells	PRDX2
NUCKS12	8.03E-301	1.031307733	0.741	0.385	4.93E-296	1.92E+00	PTM_cells	NUCKS1
EMP11	0	1.030902574	0.436	0.045	0	9.688888889	Leydig_cells	EMP1
HMGCS2	0	1.030449538	0.338	0.015	0	22.53333333	Sertoli_cells	HMGCS2
MS4A14	0	1.030389573	0.687	0.311	0	2.209003215	spermatid	MS4A14
AP1S2	2.26E-279	1.030190651	0.618	0.095	1.39E-274	6.51E+00	endotheliocyte	AP1S2
RPL414	8.02E-129	1.030022165	0.915	0.785	4.92E-124	1.17E+00	VSM_cells	RPL41
GLIPR11	2.73E-05	1.029972478	0.316	0.125	1	2.528	T_cells	GLIPR1
ARL6IP55	2.30E-08	1.029876999	0.5	0.205	0.001409505	2.43902439	T_cells	ARL6IP5

COTL11	1.35E-09	1.029777235	0.342	0.086	8.28E-05	3.98E+00	T_cells	COTL1
LGALS3	1.88E-190	1.02952398	0.754	0.201	1.15E-185	3.75E+00	endotheliocyte	LGALS3
LEPROTL1	0.004685222	1.028536319	0.5	0.435	1	1.149425287	T_cells	LEPROTL1
FAM81B	0	1.027835823	0.795	0.416	0	1.911057692	spermatid	FAM81B
TEX26	0	1.027535738	0.697	0.337	0	2.068249258	spermatid	TEX26
CALM14	1.30E-06	1.026986507	0.737	0.693	0.079618984	1.063492063	T_cells	CALM1
RPS3A	8.20E-154	1.026736208	0.98	0.897	5.03E-149	1.09E+00	endotheliocyte	RPS3A
VCX2	0	1.026229305	0.433	0.147	0	2.945578231	spermatogonia	VCX2
DSTN	0	1.026075228	0.84	0.547	0	1.535648995	PTM_cells	DSTN
BTG3	0	1.025921253	0.638	0.108	0	5.907407407	spermatogonia	BTG3
C1orf56	0	1.025873417	0.976	0.401	0	2.433915212	spermatocyte	C1orf56
RPL194	3.15E-11	1.025814503	0.921	0.839	1.93E-06	1.10E+00	T_cells	RPL19
ADGRE51	2.01E-34	1.024978124	0.316	0.023	1.23E-29	1.37E+01	T_cells	ADGRE5
ADGRL4	1.39E-162	1.02468763	0.625	0.181	8.51E-158	3.45E+00	endotheliocyte	ADGRL4
MTND1P23	1.39E-65	1.024623659	0.391	0.369	8.54E-61	1.06E+00	spermatogonia	MTND1P23
DDX24	0	1.024475448	0.871	0.566	0	1.538869258	spermatogonia	DDX24
HLA-A2	4.62E-139	1.023656583	0.548	0.298	2.83E-134	1.84E+00	Leydig_cells	HLA-A
UTRN1	3.26E-123	1.023377845	0.759	0.364	2.00E-118	2.09E+00	VSM_cells	UTRN
MT-CO34	1.02E-09	1.023247521	0.816	0.47	6.25E-05	1.74E+00	T_cells	MT-CO3
BHLHE41	1.57E-98	1.022881543	0.269	0.037	9.65E-94	7.27E+00	macrophages	BHLHE41
RPS261	6.14E-69	1.022765567	0.744	0.535	3.77E-64	1.39E+00	endotheliocyte	RPS26
CCT8	0	1.022678037	0.716	0.245	0	2.92244898	spermatogonia	CCT8
RPL24	2.87E-112	1.022623662	0.908	0.741	1.76E-107	1.23E+00	endotheliocyte	RPL24
STAB1	5.77E-255	1.022603988	0.273	0.015	3.54E-250	1.82E+01	macrophages	STAB1
CD994	7.65E-229	1.022499757	0.468	0.178	4.69E-224	2.63E+00	Sertoli_cells	CD99
LSP12	2.47E-33	1.022479894	0.368	0.031	1.52E-28	1.19E+01	T_cells	LSP1
NPTX2	0	1.022276962	0.564	0.109	0	5.174311927	PTM_cells	NPTX2
RPL34P181	3.53E-31	1.022001268	0.421	0.205	2.17E-26	2.05E+00	macrophages	RPL34P18
TSPYL2	2.24E-187	1.021694125	0.458	0.211	1.38E-182	2.17E+00	Sertoli_cells	TSPYL2
AKAP3	0	1.021670657	0.756	0.517	0	1.462282398	spermatid	AKAP3
FGFR11	0	1.021635475	0.538	0.118	0	4.559322034	Leydig_cells	FGFR1
INHA	0	1.021314718	0.329	0.012	0	27.41666667	Sertoli_cells	INHA
CCDC85B3	0	1.020638822	0.405	0.106	0	3.820754717	Sertoli_cells	CCDC85B
PPP1R12A	7.02E-104	1.020585394	0.759	0.474	4.31E-99	1.60E+00	VSM_cells	PPP1R12A
PSMB9	0	1.020254656	0.573	0.03	0	19.1	endotheliocyte	PSMB9
HCLS11	5.37E-92	1.020180489	0.395	0.013	3.30E-87	3.04E+01	T_cells	HCLS1
RPL10P3	3.41E-46	1.020006728	0.211	0.053	2.09E-41	3.98E+00	endotheliocyte	RPL10P3
PPP1R14A1	0	1.019924142	0.634	0.127	0	4.992125984	PTM_cells	PPP1R14A
RPLP12	0	1.019549611	0.966	0.758	0	1.274406332	Leydig_cells	RPLP1
TEX40	0	1.018955035	0.581	0.515	0	1.12815534	spermatocyte	TEX40
RPL32	2.77E-126	1.01894042	0.975	0.888	1.70E-121	1.10E+00	endotheliocyte	RPL32
TMIGD3	0	1.018641516	0.903	0.267	0	3.382022472	spermatocyte	TMIGD3
RPS165	1.52E-09	1.0174571	0.842	0.757	9.34E-05	1.11E+00	T_cells	RPS16
FTH1P20	2.68E-96	1.017249901	0.276	0.04	1.64E-91	6.90E+00	macrophages	FTH1P20
RPS15A	3.50E-114	1.017035504	0.931	0.784	2.15E-109	1.19E+00	endotheliocyte	RPS15A
LY6E3	1.92E-07	1.0165921	0.368	0.119	0.011757004	3.092436975	T_cells	LY6E
MIDN	1.95E-153	1.01627105	0.66	0.192	1.20E-148	3.44E+00	endotheliocyte	MIDN
TUBA1A5	7.71E-293	1.016199836	0.512	0.183	4.73E-288	2.80E+00	Sertoli_cells	TUBA1A
RPLP21	5.45E-10	1.016155388	0.947	0.835	3.34E-05	1.13E+00	T_cells	RPLP2
PSMF1	0	1.015951532	0.837	0.676	0	1.23816568	spermatid	PSMF1
CYR1	0	1.015893623	0.558	0.004	0	139.5	endotheliocyte	CYR1
UBA2	0	1.015870229	0.745	0.326	0	2.285276074	spermatogonia	UBA2
S100A161	0	1.015636066	0.343	0.049	0	7	Sertoli_cells	S100A16
SPESP1	0	1.015116922	0.966	0.397	0	2.43324937	spermatocyte	SPESP1
BPIFA3	0	1.014622394	0.739	0.342	0	2.160818713	spermatid	BPIFA3
DNAJC5B	0	1.01451615	0.763	0.376	0	2.029255319	spermatid	DNAJC5B
ADAMTS1	4.25E-192	1.014250233	0.506	0.085	2.61E-187	5.95E+00	endotheliocyte	ADAMTS1
PDLIM31	0	1.014196211	0.564	0.05	0	11.28	VSM_cells	PDLIM3
MT-ND32	2.02E-108	1.014141965	0.601	0.365	1.24E-103	1.65E+00	Leydig_cells	MT-ND3
RPN2	0	1.014072835	0.746	0.399	0	1.869674185	spermatogonia	RPN2
SMIM6	0	1.013627189	0.648	0.225	0	2.88	spermatid	SMIM6
CCNL13	4.77E-201	1.013492155	0.627	0.333	2.92E-196	1.88E+00	PTM_cells	CCNL1
CCNY	0	1.013412591	0.792	0.549	0	1.442622951	spermatid	CCNY
ODF2	0	1.013253795	0.921	0.774	0	1.189922481	spermatid	ODF2
RAMP1	0	1.013053663	0.469	0.019	0	24.68421053	VSM_cells	RAMP1
PPP1R15A3	0	1.012865435	0.674	0.173	0	3.895953757	PTM_cells	PPP1R15A
BEX4	0	1.012726271	0.368	0.083	0	4.43373494	Sertoli_cells	BEX4
LHFP	5.36E-242	1.012497173	0.547	0.202	3.29E-237	2.71E+00	Leydig_cells	LHFP
HNRNPA3	0	1.012438855	0.804	0.495	0	1.624242424	spermatogonia	HNRNPA3
LCK	1.85E-85	1.01233322	0.289	0.008	1.13E-80	3.61E+01	T_cells	LCK
TSPAN7	0	1.012181941	0.531	0.007	0	75.85714286	endotheliocyte	TSPAN7
RPL243	1.70E-114	1.01116579	0.884	0.741	1.04E-109	1.19E+00	VSM_cells	RPL24
FAM229A	0	1.010992348	0.769	0.506	0	1.519762846	spermatid	FAM229A
RP11.475C16.1	9.68E-28	1.010966217	0.384	0.186	5.94E-23	2.06E+00	macrophages	RP11.475C16.1
NBL11	0	1.010804278	0.622	0.073	0	8.520547945	PTM_cells	NBL1

C10orf54	8.50E-269	1.010034347	0.337	0.021	5.22E-264	1.60E+01	macrophages	C10orf54
MT.CYB3	3.13E-15	1.009184391	0.348	0.334	1.92E-10	1.04E+00	Sertoli_cells	MT.CYB
CLSPN	0	1.008966061	0.372	0.06	0	6.2	spermatogonia	CLSPN
CAV11	0	1.008787582	0.601	0.084	0	7.154761905	Leydig_cells	CAV1
PTPRE	0	1.008611499	0.354	0.018	0	19.66666667	macrophages	PTPRE
GADD45G	0	1.008432318	0.429	0.064	0	6.703125	Leydig_cells	GADD45G
LEPROT1	0	1.008343201	0.574	0.156	0	3.679487179	Leydig_cells	LEPROT
RPL22	6.06E-113	1.008194445	0.881	0.645	3.72E-108	1.37E+00	endotheliocyte	RPL22
GNB2L12	1.73E-214	1.007792381	0.712	0.459	1.06E-209	1.55E+00	PTM_cells	GNB2L1
RCN2	0	1.007554328	0.655	0.319	0	2.053291536	spermatogonia	RCN2
CENPH	0	1.007126089	0.602	0.15	0	4.013333333	spermatogonia	CENPH
ATPIF1	0	1.006656181	0.993	0.69	0	1.439130435	spermatocyte	ATPIF1
CPE2	7.54E-201	1.006625468	0.736	0.205	4.62E-196	3.59E+00	VSM_cells	CPE
NTRK21	0	1.005608146	0.531	0.027	0	19.66666667	VSM_cells	NTRK2
LAMB11	0	1.005567139	0.536	0.065	0	8.246153846	PTM_cells	LAMB1
RNF133	0	1.005438836	0.663	0.198	0	3.348484848	spermatid	RNF133
LDHB1	0	1.005334421	0.688	0.198	0	3.474747475	PTM_cells	LDHB
EHD1	0	1.004966188	0.8	0.549	0	1.4571949	spermatid	EHD1
POSTN	0	1.004912143	0.342	0.003	0	114	endotheliocyte	POSTN
CCDC31	0	1.004779736	0.567	0.04	0	14.175	VSM_cells	CCDC3
NRK	0	1.004504364	0.415	0.016	0	25.9375	Leydig_cells	NRK
LCA5L	0	1.004122475	0.992	0.571	0	1.737302977	spermatocyte	LCA5L
HSPA1A	1.20E-103	1.004122044	0.762	0.357	7.36E-99	2.13E+00	endotheliocyte	HSPA1A
CCDC83	0	1.003772754	0.925	0.289	0	3.200692042	spermatocyte	CCDC83
IL33	0	1.003027906	0.514	0.016	0	32.125	endotheliocyte	IL33
FBXO39	0	1.002765128	0.601	0.151	0	3.98013245	spermatid	FBXO39
PRSS50	0	1.002496585	0.444	0.097	0	4.577319588	spermatogonia	PRSS50
RPL213	4.73E-299	1.002446263	0.905	0.459	2.90E-294	1.97E+00	Leydig_cells	RPL21
COPRS	0	1.002381556	0.983	0.61	0	1.61147541	spermatocyte	COPRS
MRO	0	1.002312532	0.336	0.011	0	30.54545455	Sertoli_cells	MRO
MT-ND36	4.47E-10	1.002094498	0.789	0.375	2.74E-05	2.10E+00	T_cells	MT-ND3
IL10RA	0	1.001586335	0.35	0.002	0	175	macrophages	IL10RA
TACC1	2.95E-147	1.001437169	0.67	0.204	1.81E-142	3.28E+00	endotheliocyte	TACC1
SMOC1	0	1.00085494	0.543	0.057	0	9.526315789	PTM_cells	SMOC1
RNASE1	1.92E-286	1.000831211	0.752	0.133	1.18E-281	5.65E+00	endotheliocyte	RNASE1
RPL19	1.86E-126	1.000741153	0.978	0.837	1.14E-121	1.17E+00	endotheliocyte	RPL19
C12orf572	1.20E-108	0.999807648	0.757	0.454	7.39E-104	1.67E+00	VSM_cells	C12orf57
SLC3A2	1.26E-168	0.99920524	0.633	0.162	7.75E-164	3.91E+00	endotheliocyte	SLC3A2
NRP2	3.08E-199	0.999084569	0.409	0.059	1.89E-194	6.93E+00	endotheliocyte	NRP2
BANF1	0	0.999078458	0.773	0.348	0	2.221264368	spermatogonia	BANF1
CTSZ1	5.60E-132	0.999044538	0.38	0.057	3.44E-127	6.67E+00	macrophages	CTSZ
FAM120B	0	0.998432274	0.68	0.324	0	2.098765432	spermatid	FAM120B
ARRB2	1.30E-303	0.998356315	0.36	0.022	7.98E-299	1.64E+01	macrophages	ARRB2
SH3BGRL31	1.83E-28	0.997807163	0.414	0.212	1.12E-23	1.95E+00	macrophages	SH3BGRL3
PDHA2	0	0.99780464	0.975	0.41	0	2.37804878	spermatocyte	PDHA2
CSNK1G2	0	0.997613988	0.762	0.437	0	1.743707094	spermatid	CSNK1G2
OBSL1	0	0.996643674	0.979	0.591	0	1.656514382	spermatocyte	OBSL1
ZYX	3.88E-72	0.99651764	0.37	0.087	2.38E-67	4.25E+00	macrophages	ZYX
WBSCR28	0	0.996420735	0.678	0.322	0	2.105590062	spermatid	WBSCR28
LCP11	1.65E-50	0.99640299	0.586	0.286	1.01E-45	2.05E+00	macrophages	LCP1
MT-ND33	3.45E-262	0.996301609	0.768	0.355	2.12E-257	2.16E+00	PTM_cells	MT-ND3
B4GALT1	2.44E-37	0.995936026	0.424	0.184	1.50E-32	2.30E+00	macrophages	B4GALT1
PFN11	3.19E-37	0.995862579	0.626	0.407	1.96E-32	1.54E+00	macrophages	PFN1
KLF4	1.22E-96	0.995509086	0.801	0.483	7.50E-92	1.66E+00	endotheliocyte	KLF4
RPS2110	2.03E-10	0.995265504	0.816	0.525	1.25E-05	1.55E+00	T_cells	RPS21
MEX3C	0	0.995217122	0.713	0.375	0	1.901333333	spermatid	MEX3C
KIF5C	0	0.995071945	0.658	0.257	0	2.560311284	spermatid	KIF5C
PRSS21	0	0.994298838	0.637	0.444	0	1.434684685	spermatogonia	PRSS21
C10orf10	1.84E-161	0.994112717	0.318	0.04	1.13E-156	7.95E+00	endotheliocyte	C10orf10
CEP170P1	0	0.99407853	0.333	0.043	0	7.744186047	spermatid	CEP170P1
TCEAL6	0	0.994013183	0.299	0.01	0	29.9	Sertoli_cells	TCEAL6
RPL62	3.94E-231	0.993840983	0.852	0.677	2.41E-226	1.26E+00	Leydig_cells	RPL6
PLXDC2	2.99E-115	0.993707391	0.394	0.068	1.83E-110	5.79E+00	macrophages	PLXDC2
SH3BGRL4	0	0.993379672	0.622	0.086	0	7.23255814	PTM_cells	SH3BGRL
TLN11	5.10E-117	0.993198642	0.698	0.322	3.13E-112	2.17E+00	VSM_cells	TLN1
ABRACL	0	0.993084042	0.314	0.028	0	11.21428571	Sertoli_cells	ABRACL
MAP1B2	1.71E-204	0.992878686	0.649	0.155	1.05E-199	4.19E+00	VSM_cells	MAP1B
ICA1	0	0.992718756	0.749	0.363	0	2.063360882	spermatid	ICA1
BTG21	3.14E-83	0.992443534	0.492	0.129	1.93E-78	3.81E+00	macrophages	BTG2
RPL23A3	1.56E-116	0.992403431	0.89	0.735	9.55E-112	1.21E+00	VSM_cells	RPL23A
COX8A1	3.66E-172	0.991742085	0.451	0.216	2.25E-167	2.09E+00	Sertoli_cells	COX8A
NFIA1	0	0.991502949	0.646	0.193	0	3.347150259	PTM_cells	NFIA
VCX3A	0	0.991076608	0.431	0.094	0	4.585106383	spermatogonia	VCX3A
KLF91	7.87E-204	0.990461389	0.449	0.146	4.83E-199	3.08E+00	Leydig_cells	KLF9
RP6-91H8.2	0	0.990461288	0.5	0.097	0	5.154639175	spermatocyte	RP6-91H8.2

ECSCR.1	0	0.990071563	0.514	0.001	0	514	endotheliocyte	ECSCR.1
ETNK2	0	0.989858932	0.734	0.333	0	2.204204204	spermatid	ETNK2
NME5	0	0.988926554	0.965	0.431	0	2.238979118	spermatocyte	NME5
FMO2	0	0.988771928	0.447	0.01	0	44.7	endotheliocyte	FMO2
TXN1	3.13E-228	0.988134228	0.593	0.25	1.92E-223	2.37E+00	Leydig_cells	TXN
PDLIM2	0	0.988094398	0.548	0.044	0	12.45454545	PTM_cells	PDLIM2
SYK	1.72E-251	0.98778101	0.354	0.026	1.06E-246	1.36E+01	macrophages	SYK
WTIP	1.41E-277	0.987708455	0.571	0.096	8.64E-273	5.95E+00	VSM_cells	WTIP
TPT16	5.03E-12	0.987448948	0.921	0.859	3.09E-07	1.07E+00	T_cells	TPT1
FOXC1	2.61E-300	0.987272489	0.538	0.066	1.60E-295	8.15E+00	endotheliocyte	FOXC1
RPL10L	0	0.987000379	0.96	0.397	0	2.41813602	spermatocyte	RPL10L
ANXA5	1.79E-268	0.986828174	0.686	0.304	1.10E-263	2.26E+00	Leydig_cells	ANXA5
NUDT11	0	0.986555553	0.354	0.077	0	4.597402597	Sertoli_cells	NUDT11
TGFB1111	0	0.986236132	0.548	0.052	0	10.53846154	VSM_cells	TGFB111
IRF2BP21	1.08E-29	0.985822014	0.535	0.346	6.60E-25	1.55E+00	macrophages	IRF2BP2
MT-ND26	5.61E-11	0.985231585	0.816	0.413	3.44E-06	1.98E+00	T_cells	MT-ND2
TEX19	0	0.984270857	0.186	0.016	0	11.625	spermatogonia	TEX19
CD59	4.61E-107	0.98426424	0.816	0.503	2.83E-102	1.62E+00	endotheliocyte	CD59
MS4A6E	0	0.984125792	0.684	0.401	0	1.705735661	spermatid	MS4A6E
MAGED2	0	0.984099332	0.556	0.123	0	4.520325203	Leydig_cells	MAGED2
DYDC1	0	0.983524636	0.908	0.306	0	2.967320261	spermatocyte	DYDC1
LMNA5	0.001129508	0.983439629	0.5	0.372	1	1.344086022	T_cells	LMNA
TPM3	3.61E-130	0.983417232	0.824	0.383	2.22E-125	2.15E+00	endotheliocyte	TPM3
SDCBP2	3.14E-288	0.983280164	0.557	0.177	1.93E-283	3.15E+00	Leydig_cells	SDCBP
CX3CL1	0	0.983107162	0.447	0.021	0	21.28571429	endotheliocyte	CX3CL1
NACA	2.30E-99	0.983103971	0.898	0.747	1.41E-94	1.20E+00	endotheliocyte	NACA
MAGED1	0	0.982829352	0.363	0.06	0	6.05	Sertoli_cells	MAGED1
RANGAP1	0	0.982408411	0.679	0.397	0	1.710327456	spermatid	RANGAP1
SOCS2	2.18E-143	0.982327248	0.543	0.142	1.34E-138	3.82E+00	endotheliocyte	SOCS2
IFITM21	5.87E-61	0.982256816	0.488	0.162	3.60E-56	3.01E+00	macrophages	IFITM2
LDHB3	5.95E-199	0.98191622	0.474	0.205	3.65E-194	2.31E+00	Sertoli_cells	LDHB
EIF4H	0	0.981075311	0.734	0.529	0	1.387523629	spermatid	EIF4H
GNB2L13	6.35E-120	0.98070242	0.822	0.465	3.90E-115	1.77E+00	VSM_cells	GNB2L1
SH3GL3	0	0.9799683	0.75	0.425	0	1.764705882	spermatid	SH3GL3
STEAP4	1.49E-266	0.97991371	0.41	0.101	9.12E-262	4.06E+00	Leydig_cells	STEAP4
MT.ND41	2.62E-27	0.979505707	0.576	0.372	1.61E-22	1.55E+00	macrophages	MT.ND4
CALM2	0	0.979062958	0.916	0.751	0	1.219707057	spermatogonia	CALM2
LINC00854	0	0.978480388	0.326	0.072	0	4.527777778	spermatid	LINC00854
IL6ST	2.50E-114	0.97819727	0.677	0.269	1.53E-109	2.52E+00	endotheliocyte	IL6ST
MBNL3	0	0.977858172	0.343	0.035	0	9.8	Sertoli_cells	MBNL3
CMTM2	0	0.977594078	0.998	0.841	0	1.186682521	spermatocyte	CMTM2
PLAGL1	0	0.977063187	0.426	0.028	0	15.21428571	Leydig_cells	PLAGL1
CCDC179	0	0.976763355	0.548	0.144	0	3.805555556	spermatid	CCDC179
MT.ATP63	6.52E-12	0.976324028	0.349	0.347	4.00E-07	1.01E+00	Sertoli_cells	MT.ATP6
AC010980.2	0	0.976078746	0.407	0.15	0	2.713333333	spermatocyte	AC010980.2
COX7A2	0	0.975832383	0.995	0.801	0	1.242197253	spermatocyte	COX7A2
ZMYND12	0	0.975793524	0.946	0.294	0	3.217687075	spermatocyte	ZMYND12
PLA2G16	6.78E-119	0.975739128	0.579	0.462	4.16E-114	1.25E+00	Sertoli_cells	PLA2G16
IFI44L	0	0.975650574	0.536	0.032	0	16.75	endotheliocyte	IFI44L
MT-ND51	4.97E-137	0.975469841	0.581	0.285	3.05E-132	2.04E+00	Leydig_cells	MT-ND5
BAG1	0	0.974356455	0.808	0.613	0	1.318107667	spermatid	BAG1
MT1X2	1.04E-282	0.974209508	0.459	0.057	6.35E-278	8.05E+00	VSM_cells	MT1X
SMOC2	0	0.973776534	0.548	0.069	0	7.942028986	Leydig_cells	SMOC2
MT-ND4	3.35E-166	0.97375827	0.503	0.396	2.06E-161	1.27E+00	spermatogonia	MT-ND4
RPL394	1.55E-177	0.973757437	0.822	0.273	9.50E-173	3.01E+00	VSM_cells	RPL39
EMP2	7.89E-143	0.973550084	0.628	0.183	4.84E-138	3.43E+00	endotheliocyte	EMP2
PARP1	0	0.973092442	0.664	0.22	0	3.018181818	spermatogonia	PARP1
ZC2HC1C	0	0.973014727	0.943	0.349	0	2.702005731	spermatocyte	ZC2HC1C
SERPINF12	0	0.972877555	0.467	0.129	0	3.620155039	Sertoli_cells	SERPINF1
HES1	9.01E-260	0.972744893	0.538	0.074	5.53E-255	7.27E+00	endotheliocyte	HES1
VWA3B	0	0.972633429	0.704	0.303	0	2.323432343	spermatid	VWA3B
C16orf71	0	0.972525116	0.822	0.243	0	3.382716049	spermatocyte	C16orf71
SBNO1	0	0.972104694	0.787	0.465	0	1.692473118	spermatogonia	SBNO1
CCT6A	0	0.972062217	0.696	0.287	0	2.425087108	spermatogonia	CCT6A
NDUFAF3	0	0.970840893	0.995	0.702	0	1.417378917	spermatocyte	NDUFAF3
RP11-620J15.3	2.26E-170	0.970512616	0.36	0.219	1.38E-165	1.64E+00	spermatogonia	RP11-620J15.3
RGS10	4.69E-227	0.970346197	0.357	0.029	2.88E-222	1.23E+01	macrophages	RGS10
SLC25A66	3.38E-09	0.970187267	0.526	0.196	0.000207255	2.683673469	T_cells	SLC25A6
SELM2	0	0.970067357	0.616	0.198	0	3.111111111	PTM_cells	SELM
CD813	2.06E-132	0.969700693	0.744	0.31	1.26E-127	2.40E+00	VSM_cells	CD81
GPI	0	0.96956224	0.659	0.25	0	2.636	spermatid	GPI
GAS61	0	0.969221383	0.371	0.072	0	5.152777778	Sertoli_cells	GAS6
CD371	9.39E-13	0.968928463	0.5	0.142	5.76E-08	3.52E+00	T_cells	CD37
AHR	7.95E-115	0.968820457	0.3	0.04	4.87E-110	7.50E+00	macrophages	AHR
ARRDC31	7.19E-25	0.968778466	0.347	0.167	4.41E-20	2.08E+00	macrophages	ARRDC3

CMTM31	0	0.968761308	0.335	0.047	0	7.127659574	Sertoli_cells	CMTM3
PHACTR1	1.55E-50	0.968740131	0.377	0.122	9.51E-46	3.09E+00	macrophages	PHACTR1
WBP52	1.36E-144	0.96871588	0.264	0.087	8.37E-140	3.03E+00	Sertoli_cells	WBP5
KANK22	0	0.968669729	0.564	0.071	0	7.943661972	VSM_cells	KANK2
MFAP3L	0	0.96841968	0.683	0.317	0	2.154574132	spermatid	MFAP3L
SPEM1	0	0.96827984	0.582	0.175	0	3.325714286	spermatid	SPEM1
INMT1	0	0.968240266	0.535	0.027	0	19.81481481	PTM_cells	INMT
EGR3	1.34E-136	0.968189762	0.289	0.109	8.24E-132	2.65E+00	Sertoli_cells	EGR3
IFI161	9.00E-101	0.968146437	0.414	0.082	5.52E-96	5.05E+00	macrophages	IFI16
TPM31	4.20E-32	0.967862633	0.593	0.387	2.58E-27	1.53E+00	macrophages	TPM3
RPL34P27	7.57E-21	0.967668611	0.401	0.23	4.64E-16	1.74E+00	macrophages	RPL34P27
IGFBP4	0	0.967504458	0.493	0.069	0	7.144927536	Leydig_cells	IGFBP4
PABPC3	0	0.967391315	0.943	0.337	0	2.798219585	spermatocyte	PABPC3
PPP1R18	3.22E-15	0.967247468	0.368	0.067	1.97E-10	5.49E+00	T_cells	PPP1R18
PTGER4	6.53E-08	0.9666831	0.289	0.076	0.004007477	3.802631579	T_cells	PTGER4
CAST	0	0.965414946	0.753	0.536	0	1.404850746	spermatid	CAST
RPS6	1.71E-137	0.965391164	0.985	0.93	1.05E-132	1.06E+00	endotheliocyte	RPS6
EEF1A1	2.12E-91	0.965323509	0.993	0.924	1.30E-86	1.07E+00	macrophages	EEF1A1
PRDM1	1.63E-256	0.965011435	0.263	0.013	1.00E-251	2.02E+01	macrophages	PRDM1
APBB1IP	9.46E-114	0.964867387	0.263	0.005	5.80E-109	5.26E+01	T_cells	APBB1IP
IFITM3	0	0.964730187	0.553	0.174	0	3.17816092	Sertoli_cells	IFITM3
LGALS14	2.41E-08	0.964518008	0.553	0.209	0.001476105	2.645933014	T_cells	LGALS1
PODN	0	0.964291734	0.473	0.031	0	15.25806452	Leydig_cells	PODN
RPS233	0	0.964275134	0.936	0.824	0	1.13592233	PTM_cells	RPS23
MTATP6P11	2.32E-46	0.964228551	0.549	0.232	1.42E-41	2.37E+00	macrophages	MTATP6P11
HNRNPDL	0	0.964139233	0.734	0.391	0	1.877237852	spermatogonia	HNRNPDL
RPLP15	0	0.964039039	0.913	0.756	0	1.207671958	Sertoli_cells	RPLP1
RPS232	1.28E-306	0.963990609	0.958	0.824	7.86E-302	1.16E+00	Leydig_cells	RPS23
TCEAL8	0	0.963882181	0.337	0.063	0	5.349206349	Sertoli_cells	TCEAL8
EVI2B1	3.93E-21	0.963804972	0.316	0.037	2.41E-16	8.54E+00	T_cells	EVI2B
USP2	0	0.963696653	0.734	0.49	0	1.497959184	spermatid	USP2
LAMC3	0	0.963612966	0.463	0.058	0	7.982758621	Leydig_cells	LAMC3
PLTP1	0	0.963431423	0.607	0.146	0	4.157534247	PTM_cells	PLTP
ATP2B11	4.08E-64	0.963225757	0.444	0.131	2.50E-59	3.39E+00	macrophages	ATP2B1
NDN	0	0.963123997	0.539	0.133	0	4.052631579	Leydig_cells	NDN
F10	0	0.963099478	0.469	0.056	0	8.375	Leydig_cells	F10
C19orf71	0	0.961817549	0.584	0.201	0	2.905472637	spermatid	C19orf71
MAP1B	0	0.961484443	0.566	0.146	0	3.876712329	Leydig_cells	MAP1B
NFIX	1.24E-180	0.961396735	0.478	0.179	7.62E-176	2.67E+00	Leydig_cells	NFIX
VAMP5	0	0.961076757	0.571	0.067	0	8.52238806	endotheliocyte	VAMP5
C16orf95	0	0.960288683	0.879	0.272	0	3.231617647	spermatocyte	C16orf95
TSPAN6	0	0.959915224	0.612	0.265	0	2.309433962	spermatid	TSPAN6
EVI2B	4.99E-197	0.95971691	0.354	0.033	3.06E-192	1.07E+01	macrophages	EVI2B
S100A13	0	0.959447401	0.527	0.096	0	5.489583333	Leydig_cells	S100A13
RPS173	7.08E-230	0.959145268	0.827	0.459	4.34E-225	1.80E+00	Leydig_cells	RPS17
CAV2	9.51E-238	0.958844467	0.63	0.116	5.83E-233	5.43E+00	endotheliocyte	CAV2
TRMT112	0	0.958688053	0.777	0.457	0	1.700218818	spermatogonia	TRMT112
PNRC15	1.48E-07	0.958648246	0.658	0.398	0.009100716	1.653266332	T_cells	PNRC1
TCEAL3	0	0.958383743	0.563	0.063	0	8.936507937	PTM_cells	TCEAL3
C1orf122	1.17E-117	0.957859887	0.391	0.212	7.20E-113	1.84E+00	Sertoli_cells	C1orf122
FCGRT	3.49E-176	0.957733147	0.692	0.187	2.14E-171	3.70E+00	endotheliocyte	FCGRT
ZNF331	2.69E-22	0.956896872	0.468	0.296	1.65E-17	1.58E+00	macrophages	ZNF331
GNAQ	7.72E-197	0.956817894	0.581	0.117	4.74E-192	4.97E+00	endotheliocyte	GNAQ
RNF138	0	0.956659138	0.795	0.583	0	1.363636364	spermatid	RNF138
JUND4	1.91E-106	0.956250057	0.825	0.498	1.17E-101	1.66E+00	VSM_cells	JUND
MT.ND11	1.95E-27	0.956174805	0.576	0.377	1.20E-22	1.53E+00	macrophages	MT.ND1
GPR65	9.13E-22	0.955896406	0.263	0.025	5.60E-17	1.05E+01	T_cells	GPR65
SDCBP1	6.08E-55	0.955703872	0.492	0.189	3.73E-50	2.60E+00	macrophages	SDCBP
RPS32	1.90E-290	0.955240441	0.938	0.794	1.16E-285	1.18E+00	Leydig_cells	RPS3
RPL212	9.60E-72	0.955087449	0.889	0.473	5.89E-67	1.88E+00	macrophages	RPL21
HLA-DRB12	6.10E-07	0.954884136	0.395	0.152	0.037443349	2.598684211	T_cells	HLA-DRB1
SNRPB	0	0.954575152	0.667	0.287	0	2.324041812	spermatogonia	SNRPB
PCAT19	0	0.954506529	0.474	0.007	0	67.71428571	endotheliocyte	PCAT19
GK2	0	0.954463901	0.973	0.399	0	2.438596491	spermatocyte	GK2
CXorf65	0	0.95438763	0.59	0.145	0	4.068965517	spermatid	CXorf65
PLAC9	0	0.954237092	0.596	0.079	0	7.544303797	VSM_cells	PLAC9
EID13	7.89E-123	0.954055572	0.767	0.359	4.84E-118	2.14E+00	VSM_cells	EID1
DRG1	0	0.953953089	0.981	0.53	0	1.850943396	spermatocyte	DRG1
SVIL	0	0.95366021	0.565	0.1	0	5.65	PTM_cells	SVIL
AHNAK5	3.91E-09	0.953036705	0.5	0.172	0.000239985	2.906976744	T_cells	AHNAK
SH3GLB1	0	0.952965185	0.983	0.555	0	1.771171171	spermatocyte	SH3GLB1
JAG1	8.26E-292	0.952927719	0.444	0.046	5.07E-287	9.65E+00	endotheliocyte	JAG1
RPS264	1.19E-97	0.952888357	0.808	0.533	7.31E-93	1.52E+00	VSM_cells	RPS26
HBEGF1	1.33E-78	0.952796742	0.256	0.041	8.16E-74	6.24E+00	macrophages	HBEGF
ECHS1	2.37E-104	0.95266857	0.465	0.317	1.45E-99	1.47E+00	Sertoli_cells	ECHS1

FBXO24	0	0.952301703	0.701	0.302	0	2.321192053	spermatid	FBXO24
SLBP	0	0.951849076	0.616	0.239	0	2.577405858	spermatogonia	SLBP
BRDT	0	0.951547099	0.992	0.54	0	1.837037037	spermatocyte	BRDT
FAM171A1	0	0.951542616	0.524	0.016	0	32.75	endotheliocyte	FAM171A1
GLIPR1L1	0	0.951478378	0.848	0.232	0	3.655172414	spermatocyte	GLIPR1L1
CD86	1.22E-147	0.951379997	0.343	0.042	7.47E-143	8.17E+00	macrophages	CD86
CCNL12	2.83E-161	0.951368607	0.613	0.336	1.74E-156	1.82E+00	Leydig_cells	CCNL1
WWTR1	1.99E-222	0.951043663	0.553	0.096	1.22E-217	5.76E+00	endotheliocyte	WWTR1
NEAT15	4.13E-08	0.951011948	0.526	0.197	0.002533917	2.670050761	T_cells	NEAT1
DYRK3	0	0.95069892	0.939	0.276	0	3.402173913	spermatocyte	DYRK3
JUND5	6.01E-07	0.950694806	0.737	0.504	0.036896069	1.462301587	T_cells	JUND
GYP2	1.20E-19	0.950412856	0.316	0.039	7.34E-15	8.10E+00	T_cells	GYP2
TMBIM4	0	0.95025555	0.879	0.444	0	1.97972973	spermatocyte	TMBIM4
RPS34	8.62E-111	0.950088369	0.896	0.798	5.29E-106	1.12E+00	VSM_cells	RPS3
ADIG	0	0.949236596	0.605	0.166	0	3.644578313	spermatid	ADIG
CTSH	1.59E-65	0.948585658	0.397	0.112	9.74E-61	3.54E+00	macrophages	CTSH
GNG2	0	0.948570138	0.702	0.366	0	1.918032787	spermatid	GNG2
CHST13	0	0.947772243	0.856	0.168	0	5.095238095	spermatocyte	CHST13
A2M1	2.34E-60	0.947443095	0.394	0.112	1.44E-55	3.52E+00	macrophages	A2M
RPL223	2.85E-106	0.947101901	0.85	0.645	1.75E-101	1.32E+00	VSM_cells	RPL22
LAMA4	3.49E-194	0.946951139	0.56	0.245	2.14E-189	2.29E+00	Leydig_cells	LAMA4
ACRV1	0	0.946783722	0.631	0.357	0	1.767507003	spermatid	ACRV1
TUBA1A1	1.53E-34	0.946667735	0.451	0.202	9.37E-30	2.23E+00	macrophages	TUBA1A
SPATA7	0	0.946377048	0.779	0.465	0	1.675268817	spermatid	SPATA7
PDLIM3	0	0.946303281	0.491	0.037	0	13.27027027	PTM_cells	PDLIM3
RPL13	3.64E-138	0.945939848	0.99	0.956	2.24E-133	1.04E+00	endotheliocyte	RPL13
ARRDC3	2.18E-81	0.945574611	0.474	0.164	1.34E-76	2.89E+00	endotheliocyte	ARRDC3
CD44	1.05E-73	0.94546629	0.387	0.096	6.47E-69	4.03E+00	macrophages	CD44
PTMA5	1.05E-11	0.945236437	0.921	0.656	6.45E-07	1.40E+00	T_cells	PTMA
MGST2	0	0.945105089	0.603	0.062	0	9.725806452	endotheliocyte	MGST2
TTYH1	0	0.944458377	0.324	0.036	0	9	Sertoli_cells	TTYH1
ETS11	6.27E-20	0.94386516	0.316	0.039	3.85E-15	8.10E+00	T_cells	ETS1
MBNL14	4.04E-12	0.943860016	0.421	0.105	2.48E-07	4.01E+00	T_cells	MBNL1
CALM1	2.93E-103	0.943804612	0.916	0.69	1.80E-98	1.33E+00	endotheliocyte	CALM1
KPNA2	0	0.943703884	0.984	0.54	0	1.822222222	spermatocyte	KPNA2
DCAF1	0	0.942907144	0.354	0.112	0	3.160714286	spermatid	DCAF1
CBX3	0	0.942458448	0.783	0.49	0	1.597959184	spermatogonia	CBX3
CMTM6	5.70E-46	0.942091738	0.455	0.188	3.49E-41	2.42E+00	macrophages	CMTM6
NTRK3	1.60E-103	0.941444739	0.573	0.235	9.79E-99	2.44E+00	VSM_cells	NTRK3
PDGFRB2	4.23E-228	0.941329892	0.478	0.078	2.59E-223	6.13E+00	VSM_cells	PDGFRB
HIST1H1A	0	0.940955018	0.209	0.016	0	13.0625	spermatogonia	HIST1H1A
CD151	0	0.940940135	0.59	0.079	0	7.46835443	PTM_cells	CD151
MATN2	0	0.940801534	0.591	0.176	0	3.357954545	PTM_cells	MATN2
ARL6IP52	8.98E-279	0.940117294	0.57	0.189	5.51E-274	3.02E+00	Leydig_cells	ARL6IP5
LPP1	1.52E-106	0.939925278	0.82	0.476	9.34E-102	1.72E+00	VSM_cells	LPP
SHCBP1L	0	0.939769045	0.991	0.504	0	1.966269841	spermatocyte	SHCBP1L
RPL124	2.45E-94	0.939645988	0.839	0.632	1.50E-89	1.33E+00	VSM_cells	RPL12
ANP32B	0	0.939407979	0.652	0.351	0	1.857549858	spermatogonia	ANP32B
RPS121	9.05E-122	0.939131133	0.975	0.831	5.55E-117	1.17E+00	endotheliocyte	RPS12
LEPR	0	0.939078571	0.471	0.026	0	18.11538462	endotheliocyte	LEPR
RRAS	0	0.938510544	0.543	0.058	0	9.362068966	VSM_cells	RRAS
HNRNPH3	0	0.938454161	0.741	0.372	0	1.991935484	spermatogonia	HNRNPH3
SNHG8	2.78E-107	0.9382076	0.458	0.299	1.71E-102	1.53E+00	Sertoli_cells	SNHG8
S100A11	6.75E-47	0.938162054	0.64	0.351	4.14E-42	1.82E+00	macrophages	S100A11
METTL7A	0	0.93795703	0.445	0.043	0	10.34883721	Leydig_cells	METTL7A
RPS2	0	0.937884328	0.808	0.641	0	1.260530421	spermatogonia	RPS2
C1orf115	0	0.937842444	0.519	0.024	0	21.625	endotheliocyte	C1orf115
NEK2	0	0.937832776	0.851	0.265	0	3.211320755	spermatocyte	NEK2
IRF12	2.64E-182	0.93779099	0.523	0.21	1.62E-177	2.49E+00	Leydig_cells	IRF1
IL1RN	1.87E-21	0.937782729	0.226	0.084	1.15E-16	2.69E+00	macrophages	IL1RN
CTSC1	0	0.937615494	0.426	0.036	0	11.83333333	Leydig_cells	CTSC
CYLC1	0	0.937501911	0.665	0.275	0	2.418181818	spermatid	CYLC1
CD53	0	0.937460081	0.323	0.002	0	161.5	macrophages	CD53
STK31	0	0.93721334	0.685	0.297	0	2.306397306	spermatogonia	STK31
MT.ATP61	4.08E-30	0.937129198	0.576	0.345	2.50E-25	1.67E+00	macrophages	MT.ATP6
IFI273	5.58E-200	0.937091214	0.365	0.119	3.42E-195	3.07E+00	Sertoli_cells	IFI27
ATP6V1F	0	0.936652149	0.979	0.586	0	1.670648464	spermatocyte	ATP6V1F
FTL	2.77E-117	0.936540406	0.883	0.523	1.70E-112	1.69E+00	endotheliocyte	FTL
RGS22	0	0.936421278	0.789	0.552	0	1.429347826	spermatid	RGS22
INPP1	0	0.936178931	0.696	0.348	0	2	spermatid	INPP1
ELP5	0	0.936144171	0.964	0.432	0	2.231481481	spermatocyte	ELP5
CCDC54	0	0.93608365	0.779	0.401	0	1.942643392	spermatid	CCDC54
NDRG1	0	0.936071984	0.551	0.067	0	8.223880597	endotheliocyte	NDRG1
WNT2B	0	0.935997438	0.519	0.048	0	10.8125	PTM_cells	WNT2B
CAV23	5.18E-214	0.935358345	0.564	0.116	3.18E-209	4.86E+00	VSM_cells	CAV2

INO80C	0	0.935302848	0.928	0.342	0	2.713450292	spermatocyte	INO80C
BEX3	0	0.935211492	0.273	0.032	0	8.53125	Sertoli_cells	BEX3
COL6A11	0	0.934955855	0.642	0.095	0	6.757894737	PTM_cells	COL6A1
SPATA22	0	0.934921418	0.911	0.418	0	2.179425837	spermatocyte	SPATA22
CDH5	1.12E-209	0.934908013	0.561	0.108	6.84E-205	5.19E+00	endotheliocyte	CDH5
KDM4D	0	0.934833682	0.936	0.245	0	3.820408163	spermatocyte	KDM4D
ANXA12	0	0.934395532	0.471	0.065	0	7.246153846	Leydig_cells	ANXA1
APLP2	0	0.933970749	0.64	0.235	0	2.723404255	spermatogonia	APLP2
SET	0	0.933957242	0.714	0.316	0	2.259493671	spermatogonia	SET
LGALS34	4.98E-174	0.933830363	0.44	0.193	3.06E-169	2.28E+00	Sertoli_cells	LGALS3
TPT13	0	0.933627014	0.946	0.855	0	1.106432749	PTM_cells	TPT1
FKBP1A	2.30E-93	0.933369716	0.754	0.431	1.41E-88	1.75E+00	endotheliocyte	FKBP1A
SEPP12	0	0.93332449	0.655	0.082	0	7.987804878	PTM_cells	SEPP1
KPNA5	0	0.932810009	0.829	0.19	0	4.363157895	spermatocyte	KPNA5
ACSL1	0	0.932538168	0.624	0.236	0	2.644067797	spermatid	ACSL1
PDK42	5.82E-272	0.932503945	0.381	0.083	3.57E-267	4.59E+00	Leydig_cells	PDK4
FAM166A	0	0.932502955	0.6	0.188	0	3.191489362	spermatid	FAM166A
ACTL7B	0	0.932368572	0.726	0.4	0	1.815	spermatid	ACTL7B
RPS4Y15	3.65E-08	0.932030517	0.605	0.274	0.002237865	2.208029197	T_cells	RPS4Y1
CREB3L1	0	0.931951407	0.394	0.021	0	18.76190476	Leydig_cells	CREB3L1
RPL276	8.76E-06	0.931757888	0.711	0.663	0.537151508	1.07239819	T_cells	RPL27
PRPS2	0	0.931479831	0.49	0.08	0	6.125	Leydig_cells	PRPS2
ROPN1	0	0.931252448	0.98	0.512	0	1.9140625	spermatocyte	ROPN1
PTP4A1	0	0.931160662	0.717	0.45	0	1.593333333	spermatid	PTP4A1
BRD7	0	0.930825133	0.664	0.304	0	2.184210526	spermatogonia	BRD7
GBP4	0	0.930721114	0.459	0.008	0	57.375	endotheliocyte	GBP4
MT.ND4L	0	0.930560605	0.341	0.125	0	2.728	spermatogonia	MT.ND4L
CTSK	0	0.930444366	0.439	0.042	0	10.45238095	Leydig_cells	CTSK
EGR21	3.89E-280	0.930252296	0.278	0.057	2.39E-275	4.88E+00	Sertoli_cells	EGR2
ITGB1	0	0.930235622	0.679	0.196	0	3.464285714	Leydig_cells	ITGB1
RPL5	5.47E-133	0.929297857	0.978	0.853	3.35E-128	1.15E+00	endotheliocyte	RPL5
MT-ND25	1.89E-19	0.928769046	0.454	0.41	1.16E-14	1.11E+00	Sertoli_cells	MT-ND2
NIPBL	0	0.928725953	0.617	0.22	0	2.804545455	spermatogonia	NIPBL
TLR2	0	0.928608125	0.303	0.003	0	101	macrophages	TLR2
CTSC2	1.75E-19	0.928459896	0.368	0.052	1.07E-14	7.08E+00	T_cells	CTSC
METAP1	0	0.92797596	0.654	0.253	0	2.584980237	spermatid	METAP1
LAMB2	0	0.927959583	0.467	0.079	0	5.911392405	Leydig_cells	LAMB2
CDC424	7.56E-06	0.927907114	0.605	0.417	0.463917143	1.450839329	T_cells	CDC42
TERF2IP	0	0.927848228	0.698	0.247	0	2.825910931	spermatogonia	TERF2IP
RPL233	4.12E-289	0.927425859	0.877	0.694	2.53E-284	1.26E+00	PTM_cells	RPL23
FTH13	0	0.927158153	0.936	0.712	0	1.314606742	PTM_cells	FTH1
MRPS15	0	0.926961935	0.971	0.578	0	1.679930796	spermatocyte	MRPS15
CYBRD1	0	0.926810635	0.469	0.043	0	10.90697674	Leydig_cells	CYBRD1
SAMHD1	3.77E-105	0.926523322	0.377	0.067	2.31E-100	5.63E+00	macrophages	SAMHD1
RPL52	0	0.926281823	0.938	0.851	0	1.102232667	PTM_cells	RPL5
PPDPF1	3.09E-84	0.926253861	0.533	0.44	1.90E-79	1.21E+00	Sertoli_cells	PPDPF
RPS24	1.06E-124	0.926215152	0.973	0.885	6.49E-120	1.10E+00	endotheliocyte	RPS24
SPATA24	0	0.926205569	0.732	0.491	0	1.490835031	spermatid	SPATA24
DZIP3	0	0.926079333	0.683	0.302	0	2.261589404	spermatogonia	DZIP3
SPATA4	0	0.92595379	0.983	0.516	0	1.90503876	spermatocyte	SPATA4
PLK1	0	0.925825309	0.872	0.215	0	4.055813953	spermatocyte	PLK1
MT.ATP8	0	0.925804893	0.335	0.132	0	2.537878788	spermatogonia	MT.ATP8
SLC25A62	0	0.925599388	0.604	0.179	0	3.374301676	Leydig_cells	SLC25A6
PSME1	2.78E-289	0.925480625	0.618	0.09	1.70E-284	6.87E+00	endotheliocyte	PSME1
MRVI11	2.07E-196	0.925084221	0.556	0.128	1.27E-191	4.34E+00	VSM_cells	MRVI1
RPS124	4.10E-10	0.924803917	0.921	0.834	2.52E-05	1.10E+00	T_cells	RPS12
HSPA8	0	0.924402973	0.803	0.501	0	1.602794411	spermatogonia	HSPA8
CDKN1A2	7.62E-190	0.924231183	0.407	0.119	4.68E-185	3.42E+00	Leydig_cells	CDKN1A
RNF2131	9.14E-20	0.924169612	0.368	0.052	5.61E-15	7.08E+00	T_cells	RNF213
SOD1	0	0.923747852	0.77	0.525	0	1.466666667	spermatogonia	SOD1
RPL342	1.73E-217	0.923465573	0.98	0.903	1.06E-212	1.09E+00	Leydig_cells	RPL34
U2SURP	0	0.923447491	0.705	0.32	0	2.203125	spermatogonia	U2SURP
C1orf234	0	0.923310876	0.651	0.277	0	2.350180505	spermatid	C1orf234
PDGFRA1	0	0.922822173	0.538	0.045	0	11.95555556	PTM_cells	PDGFRA
KLF9	4.28E-125	0.922694273	0.553	0.153	2.63E-120	3.61E+00	endotheliocyte	KLF9
FUNDC2P2	0	0.92244219	0.318	0.06	0	5.3	spermatid	FUNDC2P2
UBE2J1	0	0.922349317	0.629	0.297	0	2.117845118	spermatid	UBE2J1
DYNLRB2	0	0.922033691	0.968	0.549	0	1.763205829	spermatocyte	DYNLRB2
SNCG	0	0.921866096	0.519	0.028	0	18.53571429	endotheliocyte	SNCG
RPL234	1.53E-104	0.921342645	0.86	0.7	9.37E-100	1.23E+00	VSM_cells	RPL23
DGCR14	0	0.921331394	0.585	0.232	0	2.521551724	spermatid	DGCR14
SPATA8	0	0.921185623	0.952	0.417	0	2.282973621	spermatocyte	SPATA8
FOSB4	7.98E-137	0.921038711	0.805	0.336	4.90E-132	2.40E+00	VSM_cells	FOSB
SPACA7	0	0.920627993	0.72	0.399	0	1.804511278	spermatid	SPACA7
ROPN1L	0	0.920606621	0.995	0.743	0	1.339165545	spermatocyte	ROPN1L

BCL11B	4.07E-43	0.920504982	0.263	0.013	2.50E-38	2.02E+01	T_cells	BCL11B
RPS217	8.26E-112	0.920067737	0.894	0.674	5.07E-107	1.33E+00	VSM_cells	RPS2
ELAVL2	0	0.919979276	0.496	0.238	0	2.084033613	spermatogonia	ELAVL2
ROBO4	0	0.919977688	0.462	0.004	0	115.5	endotheliocyte	ROBO4
LAMA21	0	0.919708874	0.514	0.071	0	7.23943662	PTM_cells	LAMA2
HLA-DRB5	2.30E-179	0.919640472	0.449	0.078	1.41E-174	5.76E+00	endotheliocyte	HLA-DRB5
CTC.441N14.4	0	0.9194187	0.329	0.083	0	3.963855422	spermatid	CTC.441N14.4
LARP6	0	0.919203788	0.888	0.34	0	2.611764706	spermatocyte	LARP6
SUB1	0	0.918755684	0.758	0.461	0	1.644251627	spermatogonia	SUB1
ISOC2	0	0.918473368	0.725	0.188	0	3.856382979	spermatocyte	ISOC2
CLIC1	2.63E-124	0.918383615	0.682	0.259	1.61E-119	2.63E+00	endotheliocyte	CLIC1
RUNX3	3.25E-33	0.918140821	0.316	0.024	2.00E-28	1.32E+01	T_cells	RUNX3
CLEC5A	0	0.917998484	0.256	0.004	0	64	macrophages	CLEC5A
HK1	0	0.91785772	0.683	0.285	0	2.396491228	spermatid	HK1
RPL93	3.81E-125	0.917342134	0.928	0.874	2.34E-120	1.06E+00	VSM_cells	RPL9
TIMD4	0	0.916956081	0.793	0.455	0	1.742857143	spermatid	TIMD4
NACA4	1.26E-101	0.916670299	0.875	0.747	7.75E-97	1.17E+00	VSM_cells	NACA
RPS4Y12	0	0.91618855	0.717	0.252	0	2.845238095	PTM_cells	RPS4Y1
PLCZ1	0	0.915731101	0.703	0.34	0	2.067647059	spermatid	PLCZ1
EGFL7	0	0.915725587	0.362	0.041	0	8.829268293	spermatogonia	EGFL7
LRRD1	0	0.915576734	0.549	0.108	0	5.083333333	spermatid	LRRD1
FAU3	2.51E-08	0.915391584	0.895	0.838	0.001540353	1.068019093	T_cells	FAU
OAZ12	1.90E-06	0.915357228	0.737	0.617	0.116393152	1.194489465	T_cells	OAZ1
FANCD2OS	0	0.915356606	0.694	0.32	0	2.16875	spermatid	FANCD2OS
TGFBR31	5.14E-243	0.914994843	0.469	0.142	3.16E-238	3.30E+00	Leydig_cells	TGFBR3
RABIF	0	0.914980318	0.721	0.543	0	1.327808471	spermatid	RABIF
SQSTM1	7.66E-173	0.914965053	0.618	0.332	4.70E-168	1.86E+00	Leydig_cells	SQSTM1
WFDC1	0	0.914935787	0.514	0.12	0	4.283333333	PTM_cells	WFDC1
CDKL2	0	0.914815247	0.858	0.173	0	4.959537572	spermatocyte	CDKL2
MXRA8	0	0.914739643	0.455	0.057	0	7.98245614	Leydig_cells	MXRA8
RAB312	0	0.914573947	0.348	0.079	0	4.405063291	Sertoli_cells	RAB31
CHODL	0	0.91442729	0.31	0.032	0	9.6875	Sertoli_cells	CHODL
DLC1	2.59E-116	0.914262525	0.511	0.144	1.59E-111	3.55E+00	endotheliocyte	DLC1
DNAJC21	0	0.913971658	0.915	0.426	0	2.147887324	spermatocyte	DNAJC21
RPL13AP252	1.89E-67	0.913781892	0.273	0.121	1.16E-62	2.26E+00	Leydig_cells	RPL13AP25
BAG5	0	0.913570726	0.857	0.679	0	1.262150221	spermatid	BAG5
PRAME	0	0.91349021	0.447	0.159	0	2.811320755	spermatogonia	PRAME
TPTE	0	0.913324539	0.356	0.101	0	3.524752475	spermatogonia	TPTE
PFN3	0	0.913238496	0.543	0.207	0	2.623188406	spermatid	PFN3
MT-ND42	1.02E-90	0.913210578	0.61	0.411	6.27E-86	1.48E+00	Leydig_cells	MT-ND4
GPNMB	0	0.913160617	0.431	0.06	0	7.183333333	Leydig_cells	GPNMB
RPS5	1.33E-121	0.91312403	0.95	0.816	8.18E-117	1.16E+00	endotheliocyte	RPS5
HELLS	0	0.911926679	0.448	0.035	0	12.8	spermatogonia	HELLS
TEKT5	0	0.911625604	0.556	0.182	0	3.054945055	spermatid	TEKT5
RPL23AP42	1.14E-21	0.911605731	0.421	0.24	6.99E-17	1.75E+00	macrophages	RPL23AP42
SUZ12	0	0.911431148	0.626	0.224	0	2.794642857	spermatogonia	SUZ12
COX7A2L	0	0.911421157	0.704	0.329	0	2.139817629	spermatogonia	COX7A2L
C12orf50	0	0.91133528	0.793	0.446	0	1.778026906	spermatid	C12orf50
LITAF3	1.48E-07	0.911274537	0.316	0.092	0.009083979	3.434782609	T_cells	LITAF
MGP3	4.68E-191	0.910895411	0.666	0.159	2.87E-186	4.19E+00	VSM_cells	MGP
RPS73	6.11E-10	0.910827375	0.921	0.801	3.75E-05	1.15E+00	T_cells	RPS7
GNAI21	2.15E-33	0.910751756	0.62	0.424	1.32E-28	1.46E+00	macrophages	GNAI2
MT-ND46	5.54E-09	0.910441005	0.789	0.419	0.000339663	1.883054893	T_cells	MT-ND4
RPL341	3.77E-62	0.910079758	0.956	0.905	2.31E-57	1.06E+00	macrophages	RPL34
RPL53	1.91E-118	0.909927206	0.934	0.854	1.17E-113	1.09E+00	VSM_cells	RPL5
RP5.1052M9.1	0.001806435	0.909882555	0.236	0.208	1	1.134615385	endotheliocyte	RP5.1052M9.1
SIRPD	0	0.909541591	0.629	0.221	0	2.846153846	spermatid	SIRPD
NEU1	8.95E-09	0.909533661	0.237	0.047	0.000549203	5.042553191	T_cells	NEU1
KLF10	8.53E-106	0.909520998	0.633	0.24	5.23E-101	2.64E+00	endotheliocyte	KLF10
SRGN2	5.16E-09	0.909395394	0.24	0.055	0.00031686	4.363636364	mastocyte	SRGN
TRIM13	0	0.90938867	0.943	0.402	0	2.345771144	spermatocyte	TRIM13
BTG25	1.70E-12	0.909266101	0.5	0.132	1.04E-07	3.79E+00	T_cells	BTG2
XRCC6	0	0.909139547	0.83	0.525	0	1.580952381	spermatogonia	XRCC6
IFI163	4.54E-08	0.908843468	0.316	0.085	0.002785031	3.717647059	T_cells	IFI16
CD248	0	0.908781324	0.348	0.012	0	29	Leydig_cells	CD248
HLA-A3	6.32E-233	0.90865431	0.624	0.293	3.88E-228	2.13E+00	PTM_cells	HLA-A
EID1	3.01E-130	0.908508993	0.834	0.359	1.84E-125	2.32E+00	endotheliocyte	EID1
MEF2C1	1.61E-58	0.908498972	0.448	0.152	9.85E-54	2.95E+00	macrophages	MEF2C
RPL143	5.18E-226	0.908212779	0.822	0.637	3.18E-221	1.29E+00	PTM_cells	RPL14
GLIPR1L2	0	0.908150387	0.925	0.337	0	2.744807122	spermatocyte	GLIPR1L2
AQP1	0	0.907957199	0.295	0.007	0	42.14285714	endotheliocyte	AQP1
GIMAP71	3.32E-33	0.907637939	0.237	0.013	2.04E-28	1.82E+01	T_cells	GIMAP7
NDUFB112	3.06E-201	0.90720657	0.345	0.112	1.87E-196	3.08E+00	Sertoli_cells	NDUFB11
RPL193	8.35E-106	0.907068273	0.915	0.838	5.12E-101	1.09E+00	VSM_cells	RPL19
CCP110	0	0.906931053	0.526	0.152	0	3.460526316	spermatogonia	CCP110

PSMB81	3.23E-32	0.906847162	0.395	0.037	1.98E-27	1.07E+01	T_cells	PSMB8
SYNE11	4.86E-170	0.90646165	0.524	0.124	2.98E-165	4.23E+00	VSM_cells	SYNE1
RPS211	1.78E-112	0.906378764	0.891	0.52	1.09E-107	1.71E+00	endotheliocyte	RPS21
HCFC1R11	9.25E-173	0.905902646	0.577	0.15	5.67E-168	3.85E+00	VSM_cells	HCFC1R1
PCCB	0	0.905871816	0.552	0.197	0	2.802030457	spermatid	PCCB
ARHGAP28	0	0.905240768	0.729	0.389	0	1.87403599	spermatid	ARHGAP28
ATP1A2	0	0.904512986	0.463	0.022	0	21.04545455	VSM_cells	ATP1A2
KCNMB1	0	0.904346993	0.486	0.016	0	30.375	PTM_cells	KCNMB1
NFIB2	0	0.904169963	0.552	0.067	0	8.23880597	VSM_cells	NFIB
HSPA2	0	0.904043685	0.605	0.418	0	1.447368421	spermatogonia	HSPA2
RPS4Y11	1.01E-269	0.903784214	0.687	0.256	6.18E-265	2.68E+00	Leydig_cells	RPS4Y1
C9orf9	1.91E-160	0.903757042	0.455	0.416	1.17E-155	1.09E+00	spermatid	C9orf9
CETN3	0	0.903486502	0.586	0.336	0	1.744047619	spermatogonia	CETN3
ISG20	6.81E-06	0.903036814	0.316	0.115	0.417861698	2.747826087	T_cells	ISG20
F101	0	0.90273017	0.526	0.05	0	10.52	PTM_cells	F10
SIGLEC1	0	0.902712278	0.212	0.002	0	106	macrophages	SIGLEC1
CEBPD4	1.93E-180	0.902641296	0.52	0.106	1.18E-175	4.91E+00	VSM_cells	CEBPD
IFITM31	1.49E-89	0.902337062	0.653	0.193	9.12E-85	3.38E+00	macrophages	IFITM3
IL10RA1	5.04E-100	0.902095526	0.263	0.005	3.09E-95	5.26E+01	T_cells	IL10RA
CSRNP1	2.58E-114	0.90201515	0.578	0.178	1.58E-109	3.25E+00	endotheliocyte	CSRNP1
YBEY	0	0.901829637	0.948	0.409	0	2.317848411	spermatocyte	YBEY
PDLIM7	0	0.901764258	0.582	0.138	0	4.217391304	PTM_cells	PDLIM7
CLEC4E	0	0.901577996	0.232	0.003	0	77.33333333	macrophages	CLEC4E
SLC25A63	0	0.901283843	0.637	0.174	0	3.66091954	PTM_cells	SLC25A6
CHPF	0	0.901069406	0.319	0.061	0	5.229508197	Sertoli_cells	CHPF
C7orf31	0	0.901052049	0.687	0.438	0	1.568493151	spermatid	C7orf31
CUL9	0	0.900943078	0.636	0.274	0	2.321167883	spermatid	CUL9
TLE4	0	0.900874171	0.771	0.508	0	1.517716535	spermatid	TLE4
LRR1	0	0.900646753	0.905	0.262	0	3.454198473	spermatocyte	LRR1
PCYOX1	0	0.900586035	0.465	0.107	0	4.345794393	Leydig_cells	PCYOX1
HSPA6	1.73E-79	0.900553595	0.219	0.03	1.06E-74	7.30E+00	macrophages	HSPA6
DBI	0	0.900092658	0.974	0.564	0	1.726950355	spermatocyte	DBI
COL18A11	0	0.899732359	0.547	0.06	0	9.116666667	PTM_cells	COL18A1
IFI62	0	0.899491851	0.419	0.083	0	5.048192771	Leydig_cells	IFI6
ACTN12	6.26E-121	0.899393142	0.624	0.244	3.84E-116	2.56E+00	VSM_cells	ACTN1
IQCF6	0	0.899242864	0.487	0.121	0	4.024793388	spermatid	IQCF6
RPS283	1.06E-103	0.899056016	0.86	0.606	6.52E-99	1.42E+00	VSM_cells	RPS28
MBOAT7	0	0.89884709	0.326	0.053	0	6.150943396	Sertoli_cells	MBOAT7
SWAP70	0	0.898545912	0.504	0.052	0	9.692307692	endotheliocyte	SWAP70
CFAP206	0	0.898384188	0.944	0.284	0	3.323943662	spermatocyte	CFAP206
HES11	2.30E-255	0.898096454	0.499	0.074	1.41E-250	6.74E+00	VSM_cells	HES1
RPS33	3.16E-287	0.897782501	0.898	0.795	1.94E-282	1.13E+00	PTM_cells	RPS3
CFLAR	5.98E-87	0.897369713	0.6	0.261	3.67E-82	2.30E+00	endotheliocyte	CFLAR
RARRES21	0	0.897084212	0.541	0.063	0	8.587301587	PTM_cells	RARRES2
PARK7	0	0.89690612	0.785	0.408	0	1.924019608	spermatogonia	PARK7
RPL324	6.09E-11	0.896853629	0.947	0.889	3.74E-06	1.07E+00	T_cells	RPL32
SLC38A21	0	0.896713356	0.473	0.102	0	4.637254902	Leydig_cells	SLC38A2
ZFAND3	0	0.896628188	0.74	0.523	0	1.414913958	spermatid	ZFAND3
CCNH	0	0.896579756	0.934	0.33	0	2.83030303	spermatocyte	CCNH
IQCF4	0	0.896313085	0.351	0.108	0	3.25	spermatid	IQCF4
ANKEF1	0	0.896311869	0.604	0.167	0	3.616766467	spermatid	ANKEF1
RPL375	3.52E-11	0.896273531	0.895	0.806	2.16E-06	1.11E+00	T_cells	RPL37
PLP21	2.91E-09	0.896085767	0.342	0.09	0.000178437	3.8	T_cells	PLP2
EPB41L3	0	0.896085261	0.641	0.225	0	2.848888889	spermatid	EPB41L3
HSPA1B5	1.43E-86	0.895863865	0.342	0.186	8.78E-82	1.84E+00	Sertoli_cells	HSPA1B
PLS31	6.56E-285	0.895757529	0.516	0.073	4.02E-280	7.07E+00	VSM_cells	PLS3
RPL264	3.85E-111	0.895222795	0.915	0.753	2.36E-106	1.22E+00	VSM_cells	RPL26
RPS23P8	1.21E-19	0.895085306	0.387	0.222	7.45E-15	1.74E+00	macrophages	RPS23P8
MXRA81	0	0.894945752	0.529	0.051	0	10.37254902	PTM_cells	MXRA8
YEATS4	0	0.894077488	0.578	0.216	0	2.675925926	spermatogonia	YEATS4
HSPB61	0	0.894067018	0.602	0.185	0	3.254054054	PTM_cells	HSPB6
CLIC14	4.63E-105	0.89399073	0.607	0.259	2.84E-100	2.34E+00	VSM_cells	CLIC1
PDE5A	0	0.893955252	0.517	0.102	0	5.068627451	PTM_cells	PDE5A
RPL27A1	3.96E-61	0.893838275	0.892	0.786	2.43E-56	1.13E+00	macrophages	RPL27A
CD1C	2.53E-67	0.893392845	0.158	0.019	1.55E-62	8.32E+00	macrophages	CD1C
RPL23A	2.17E-94	0.893358467	0.908	0.735	1.33E-89	1.24E+00	endotheliocyte	RPL23A
AC002467.7	0	0.893231667	0.823	0.213	0	3.863849765	spermatocyte	AC002467.7
RPS183	0	0.893220307	0.962	0.848	0	1.134433962	PTM_cells	RPS18
DUSP21	0	0.89314508	0.249	0.038	0	6.552631579	Sertoli_cells	DUSP2
SYCP2	0	0.892699932	0.64	0.425	0	1.505882353	spermatogonia	SYCP2
HDAC2	0	0.892633439	0.705	0.372	0	1.89516129	spermatogonia	HDAC2
NFKBIA4	3.91E-165	0.89196007	0.696	0.206	2.40E-160	3.38E+00	VSM_cells	NFKBIA
C15orf61	0	0.891737296	0.902	0.351	0	2.56980057	spermatocyte	C15orf61
MOSPD3	0	0.891642007	0.697	0.354	0	1.968926554	spermatid	MOSPD3
SERPINI1	0	0.891335142	0.446	0.047	0	9.489361702	VSM_cells	SERPINI1

RPS175	6.08E-06	0.891113271	0.711	0.474	0.372785269	1.5	T_cells	RPS17
PLAU	0	0.891080761	0.259	0.002	0	129.5	macrophages	PLAU
C19orf70	0	0.891055644	0.754	0.56	0	1.346428571	spermatid	C19orf70
VCL	7.57E-203	0.891038911	0.562	0.122	4.64E-198	4.61E+00	VSM_cells	VCL
RPS27A3	5.64E-306	0.890742766	0.933	0.857	3.46E-301	1.09E+00	PTM_cells	RPS27A
EEF1D	4.52E-92	0.890700081	0.868	0.626	2.77E-87	1.39E+00	endotheliocyte	EEF1D
ID4	0	0.890415337	0.362	0.081	0	4.469135802	Sertoli_cells	ID4
FSCN1	0	0.890367753	0.335	0.061	0	5.491803279	Sertoli_cells	FSCN1
ELF13	3.49E-07	0.890277293	0.342	0.112	0.021412223	3.053571429	T_cells	ELF1
ATF7IP2	2.86E-85	0.890118481	0.471	0.354	1.76E-80	1.33E+00	Sertoli_cells	ATF7IP2
NFE2L21	7.33E-155	0.889853978	0.645	0.41	4.50E-150	1.57E+00	Leydig_cells	NFE2L2
FOS5	5.76E-08	0.889716668	0.658	0.313	0.003532983	2.102236422	T_cells	FOS
ICAM2	0	0.889616374	0.385	0.003	0	128.3333333	endotheliocyte	ICAM2
LMNA3	4.28E-257	0.888769839	0.7	0.355	2.63E-252	1.97E+00	PTM_cells	LMNA
TMEM191B	0	0.888223313	0.525	0.217	0	2.419354839	spermatid	TMEM191B
PROK1	7.96E-173	0.887936757	0.281	0.066	4.88E-168	4.26E+00	Leydig_cells	PROK1
ACTN11	0	0.887912289	0.613	0.232	0	2.642241379	PTM_cells	ACTN1
FAM213A	7.87E-140	0.887864577	0.405	0.203	4.83E-135	2.00E+00	Sertoli_cells	FAM213A
SLC25A34	3.85E-96	0.887420363	0.748	0.434	2.36E-91	1.72E+00	VSM_cells	SLC25A3
NACA2	0	0.887246567	0.91	0.335	0	2.71641791	spermatocyte	NACA2
RP11-1223D19.1	0	0.887175659	0.565	0.251	0	2.250996016	spermatocyte	RP11-1223D19.1
NDRG4	0	0.88709869	0.321	0.06	0	5.35	Sertoli_cells	NDRG4
TEX29	0	0.886978964	0.498	0.189	0	2.634920635	spermatid	TEX29
PDCL2	0	0.885970716	0.669	0.374	0	1.788770053	spermatid	PDCL2
C20orf173	0	0.885810442	0.539	0.138	0	3.905797101	spermatid	C20orf173
RP11-705C15.4	0	0.885753386	0.552	0.177	0	3.118644068	spermatocyte	RP11-705C15.4
ARID5B1	1.96E-175	0.885736731	0.539	0.126	1.20E-170	4.28E+00	VSM_cells	ARID5B
TUBA1A4	4.73E-159	0.885655628	0.677	0.196	2.90E-154	3.45E+00	VSM_cells	TUBA1A
CEP112	0	0.885555034	0.734	0.439	0	1.671981777	spermatid	CEP112
TSC22D34	1.45E-167	0.885513232	0.56	0.14	8.91E-163	4.00E+00	VSM_cells	TSC22D3
MAFF1	1.52E-70	0.88546664	0.316	0.066	9.34E-66	4.79E+00	macrophages	MAFF
CCNL14	1.06E-80	0.885237008	0.649	0.342	6.49E-76	1.90E+00	VSM_cells	CCNL1
IER5	9.24E-150	0.884939311	0.551	0.13	5.67E-145	4.24E+00	endotheliocyte	IER5
FTH1P101	2.80E-56	0.88486984	0.302	0.156	1.72E-51	1.94E+00	Leydig_cells	FTH1P10
HTRA11	0	0.884495762	0.505	0.04	0	12.625	PTM_cells	HTRA1
RBBP71	5.11E-162	0.884436029	0.465	0.232	3.13E-157	2.00E+00	Sertoli_cells	RBBP7
RNF130	2.45E-58	0.884341022	0.421	0.136	1.50E-53	3.10E+00	macrophages	RNF130
FAM198B	1.10E-244	0.884210334	0.452	0.056	6.73E-240	8.07E+00	endotheliocyte	FAM198B
AKAP12	0	0.884197387	0.903	0.438	0	2.061643836	spermatocyte	AKAP12
LAMTOR5	0	0.883906598	0.684	0.401	0	1.705735661	spermatogonia	LAMTOR5
RPL225	2.00E-08	0.883853915	0.816	0.649	0.0012264	1.257318952	T_cells	RPL22
AOC3	0	0.883801909	0.478	0.037	0	12.91891892	VSM_cells	AOC3
ACRBP	0	0.883702945	0.992	0.55	0	1.803636364	spermatocyte	ACRBP
MT-ND5	3.58E-78	0.883451712	0.68	0.292	2.20E-73	2.33E+00	endotheliocyte	MT-ND5
LRP12	0	0.883448602	0.557	0.061	0	9.131147541	PTM_cells	LRP1
PRMT12	1.37E-138	0.88326207	0.43	0.216	8.42E-134	1.99E+00	Sertoli_cells	PRMT1
MYADM	1.09E-29	0.883199856	0.438	0.222	6.69E-25	1.97E+00	macrophages	MYADM
RPL134	8.83E-12	0.882811779	0.947	0.956	5.42E-07	9.91E-01	T_cells	RPL13
C22orf23	0	0.882774703	0.924	0.332	0	2.78313253	spermatocyte	C22orf23
CSTB2	5.74E-160	0.882688042	0.389	0.161	3.52E-155	2.42E+00	Sertoli_cells	CSTB
RPL18A2	2.29E-41	0.882500959	0.721	0.415	1.41E-36	1.74E+00	macrophages	RPL18A
SAT2	5.58E-147	0.882441435	0.347	0.146	3.42E-142	2.38E+00	Sertoli_cells	SAT2
IER25	1.26E-15	0.881742107	0.658	0.179	7.71E-11	3.68E+00	T_cells	IER2
SUN5	0	0.88165524	0.533	0.221	0	2.411764706	spermatid	SUN5
C16orf78	0	0.881652783	0.537	0.097	0	5.536082474	spermatid	C16orf78
CMAS1	3.07E-110	0.881505765	0.476	0.316	1.88E-105	1.51E+00	Sertoli_cells	CMAS
RPS16	3.18E-111	0.881008542	0.938	0.755	1.95E-106	1.24E+00	endotheliocyte	RPS16
PCAT6	0	0.880989744	0.645	0.369	0	1.74796748	spermatid	PCAT6
ARGLU11	3.54E-81	0.880917451	0.727	0.416	2.17E-76	1.75E+00	endotheliocyte	ARGLU1
MRPL34	0	0.880547814	0.79	0.282	0	2.80141844	spermatocyte	MRPL34
IQGAP1	5.78E-140	0.880537433	0.608	0.167	3.55E-135	3.64E+00	endotheliocyte	IQGAP1
FBLIM1	0	0.880004308	0.501	0.029	0	17.27586207	PTM_cells	FBLIM1
PFDN2	0	0.879957009	0.602	0.281	0	2.142348754	spermatogonia	PFDN2
PDGFA	0	0.879925388	0.444	0.017	0	26.11764706	VSM_cells	PDGFA
CD635	6.42E-205	0.879747007	0.569	0.274	3.94E-200	2.08E+00	Sertoli_cells	CD63
C1R1	0	0.879202391	0.585	0.064	0	9.140625	PTM_cells	C1R
H2AFZ	0	0.879043527	0.738	0.448	0	1.647321429	spermatogonia	H2AFZ
WDR87	0	0.87873057	0.685	0.192	0	3.567708333	spermatocyte	WDR87
LTBP11	0	0.877889093	0.529	0.085	0	6.223529412	PTM_cells	LTBP1
MRPL47	0	0.877596887	0.937	0.415	0	2.257831325	spermatocyte	MRPL47
RPL13A1	3.04E-69	0.877516027	0.933	0.736	1.86E-64	1.27E+00	macrophages	RPL13A
RARRES3	6.58E-29	0.877484355	0.289	0.023	4.03E-24	1.26E+01	T_cells	RARRES3
KDEL2	0	0.877311477	0.963	0.55	0	1.750909091	spermatocyte	KDEL2
RPL28	5.53E-113	0.877239278	0.96	0.821	3.39E-108	1.17E+00	endotheliocyte	RPL28
YBX3	0	0.877222749	0.994	0.749	0	1.327102804	spermatocyte	YBX3

RPL35	0	0.877193647	0.969	0.921	0	1.052117264	PTM_cells	RPL3
LAPTM4B	1.57E-236	0.876978105	0.353	0.107	9.64E-232	3.30E+00	Sertoli_cells	LAPTM4B
ATF33	0	0.876388562	0.504	0.1	0	5.04	PTM_cells	ATF3
ZNRF4	0	0.876047219	0.715	0.329	0	2.17325228	spermatid	ZNRF4
TSSK3	0	0.876044176	0.616	0.249	0	2.473895582	spermatid	TSSK3
S100A61	2.30E-83	0.875946829	0.515	0.129	1.41E-78	3.99E+00	macrophages	S100A6
SYNE21	6.83E-155	0.87553788	0.533	0.128	4.19E-150	4.16E+00	VSM_cells	SYNE2
CORO1A	0	0.87539047	0.296	0.003	0	98.66666667	macrophages	CORO1A
TTLL2	0	0.875281185	0.528	0.101	0	5.227722772	spermatid	TTLL2
DDIT41	6.74E-57	0.875146656	0.333	0.085	4.13E-52	3.92E+00	macrophages	DDIT4
C1orf158	0	0.875072676	0.93	0.278	0	3.345323741	spermatocyte	C1orf158
BZW1	0	0.874912629	0.852	0.742	0	1.148247978	spermatid	BZW1
SETX	0	0.874843621	0.588	0.277	0	2.122743682	spermatogonia	SETX
SNX6	0	0.874553725	0.615	0.133	0	4.62406015	spermatogonia	SNX6
SPACA4	0	0.87451767	0.663	0.356	0	1.862359551	spermatid	SPACA4
CCDC85B1	0	0.874498744	0.574	0.102	0	5.62745098	PTM_cells	CCDC85B
SAT13	1.32E-09	0.873890735	0.5	0.157	8.10E-05	3.18E+00	T_cells	SAT1
TKTL2	0	0.87376158	0.853	0.216	0	3.949074074	spermatocyte	TKTL2
MT.RNR2	2.47E-60	0.873494776	0.392	0.369	1.52E-55	1.06E+00	spermatogonia	MT.RNR2
HLA-DPB12	7.55E-15	0.87347845	0.263	0.035	4.63E-10	7.51E+00	T_cells	HLA-DPB1
APOBEC3C	0	0.873276937	0.324	0.039	0	8.307692308	Sertoli_cells	APOBEC3C
CEP295NL	0	0.873202946	0.612	0.21	0	2.914285714	spermatid	CEP295NL
MEF2A	5.77E-32	0.873144493	0.401	0.186	3.54E-27	2.16E+00	macrophages	MEF2A
ALDH1A1	0	0.873092862	0.587	0.11	0	5.336363636	Leydig_cells	ALDH1A1
MT.ND3	3.39E-60	0.872872946	0.391	0.365	2.08E-55	1.07E+00	spermatogonia	MT.ND3
SH3BGRL3	5.41E-126	0.872373035	0.625	0.208	3.32E-121	3.00E+00	endotheliocyte	SH3BGRL3
INSR	0	0.872313617	0.494	0.079	0	6.253164557	PTM_cells	INSR
ROCK1	1.14E-78	0.872205799	0.715	0.452	6.98E-74	1.58E+00	VSM_cells	ROCK1
RNF32	0	0.872111623	0.964	0.432	0	2.231481481	spermatocyte	RNF32
LEPROT	6.89E-155	0.87158714	0.628	0.167	4.23E-150	3.76E+00	endotheliocyte	LEPROT
DRICH1	0	0.8713128	0.645	0.23	0	2.804347826	spermatid	DRICH1
ID2	2.82E-297	0.871214254	0.464	0.111	1.73E-292	4.18E+00	Leydig_cells	ID2
PDGFB	9.80E-180	0.871009126	0.273	0.021	6.01E-175	1.30E+01	macrophages	PDGFB
RPS11	7.56E-130	0.870951606	0.96	0.82	4.64E-125	1.17E+00	endotheliocyte	RPS11
MEX3B	0	0.870875401	0.581	0.192	0	3.026041667	spermatid	MEX3B
WDR53	0	0.870831758	0.942	0.354	0	2.661016949	spermatocyte	WDR53
COX7A11	0	0.870825949	0.502	0.062	0	8.096774194	PTM_cells	COX7A1
HLTF	0	0.870728349	0.601	0.129	0	4.658914729	spermatogonia	HLTF
SPOCK2	0	0.870546585	0.295	0.058	0	5.086206897	Sertoli_cells	SPOCK2
RP11.496H1.2	2.72E-261	0.870115618	0.408	0.252	1.67E-256	1.62E+00	spermatid	RP11.496H1.2
SDF2L1	0	0.87006609	0.525	0.275	0	1.909090909	spermatogonia	SDF2L1
AK1	5.25E-208	0.870051816	0.629	0.307	3.22E-203	2.05E+00	PTM_cells	AK1
RPS234	5.89E-104	0.8699082	0.918	0.828	3.61E-99	1.11E+00	VSM_cells	RPS23
RPS35	4.47E-292	0.869795005	0.857	0.796	2.74E-287	1.08E+00	Sertoli_cells	RPS3
RPL36A5	4.45E-09	0.869706532	0.447	0.14	0.000272971	3.192857143	T_cells	RPL36A
HSP90B1	0	0.869247829	0.709	0.579	0	1.224525043	spermatogonia	HSP90B1
IQCB1	0	0.869142247	0.536	0.085	0	6.305882353	spermatogonia	IQCB1
RPS13	1.59E-107	0.868995796	0.945	0.84	9.76E-103	1.13E+00	endotheliocyte	RPS13
HNRNPR	0	0.868944214	0.646	0.21	0	3.076190476	spermatogonia	HNRNPR
MFAP5	0	0.868843515	0.2	0.003	0	66.66666667	Leydig_cells	MFAP5
MT-CO22	9.03E-236	0.868839134	0.79	0.418	5.54E-231	1.89E+00	PTM_cells	MT-CO2
NDRG3	0	0.868766221	0.687	0.384	0	1.7890625	spermatid	NDRG3
ZCCHC171	1.06E-86	0.868709742	0.49	0.374	6.53E-82	1.31E+00	Sertoli_cells	ZCCHC17
LSP11	0	0.868268691	0.367	0.017	0	21.58823529	Leydig_cells	LSP1
TMPRSS12	0	0.868220982	0.8	0.146	0	5.479452055	spermatocyte	TMPRSS12
IQCF5	0	0.868212383	0.712	0.369	0	1.929539295	spermatid	IQCF5
LINC01191	0	0.868186367	0.918	0.488	0	1.881147541	spermatocyte	LINC01191
COX7B2	0	0.868099423	0.88	0.373	0	2.35924933	spermatocyte	COX7B2
NACA3	2.80E-221	0.868014664	0.866	0.743	1.72E-216	1.17E+00	PTM_cells	NACA
OSBPL10	0	0.867692161	0.604	0.184	0	3.282608696	spermatid	OSBPL10
RPS152	1.91E-252	0.86751483	0.898	0.76	1.17E-247	1.18E+00	PTM_cells	RPS15
CCDC188	0	0.867472588	0.56	0.138	0	4.057971014	spermatid	CCDC188
SNRPD1	0	0.86697227	0.659	0.271	0	2.431734317	spermatogonia	SNRPD1
DNAJB7	0	0.866860013	0.509	0.113	0	4.504424779	spermatid	DNAJB7
CD341	0	0.866783498	0.429	0.052	0	8.25	Leydig_cells	CD34
TSHZ1	0	0.866475723	0.49	0.031	0	15.80645161	PTM_cells	TSHZ1
GLTSCR2	1.39E-78	0.866343002	0.774	0.518	8.52E-74	1.49E+00	endotheliocyte	GLTSCR2
AKAP131	0.001093929	0.866245699	0.526	0.411	1	1.279805353	T_cells	AKAP13
CD63	1.88E-148	0.866142317	0.839	0.285	1.15E-143	2.94E+00	endotheliocyte	CD63
NSUN4	0	0.866054676	0.606	0.229	0	2.64628821	spermatid	NSUN4
UBTD2	0	0.865629	0.598	0.241	0	2.481327801	spermatid	UBTD2
TEX33	0	0.865490709	0.667	0.33	0	2.021212121	spermatid	TEX33
COL5A1	0	0.865155493	0.346	0.032	0	10.8125	Leydig_cells	COL5A1
TUBA1A3	0	0.864998116	0.599	0.184	0	3.255434783	PTM_cells	TUBA1A
TMEM173	0	0.864859436	0.499	0.032	0	15.59375	endotheliocyte	TMEM173

LIMS2	0	0.86472574	0.506	0.025	0	20.24	endotheliocyte	LIMS2
PDGFRB1	0	0.864665909	0.503	0.063	0	7.984126984	PTM_cells	PDGFRB
SOCS31	2.68E-90	0.864559193	0.502	0.122	1.65E-85	4.11E+00	macrophages	SOCS3
GRASP1	5.47E-150	0.86383136	0.242	0.02	3.36E-145	1.21E+01	macrophages	GRASP
C2orf40	0	0.863465184	0.642	0.372	0	1.725806452	spermatid	C2orf40
RPS162	2.87E-244	0.863451483	0.914	0.75	1.76E-239	1.22E+00	Leydig_cells	RPS16
EMP21	1.78E-229	0.863159866	0.515	0.176	1.09E-224	2.93E+00	Leydig_cells	EMP2
SRPK2	0	0.862776985	0.851	0.71	0	1.198591549	spermatid	SRPK2
GOT1	0	0.862597779	0.851	0.21	0	4.052380952	spermatocyte	GOT1
RPL34P271	2.81E-27	0.862338741	0.316	0.229	1.72E-22	1.38E+00	Leydig_cells	RPL34P27
RPL27A3	2.49E-269	0.862198748	0.891	0.782	1.53E-264	1.14E+00	PTM_cells	RPL27A
CD995	1.50E-07	0.861664006	0.5	0.197	0.009198995	2.538071066	T_cells	CD99
PCBP2	0	0.861436554	0.793	0.537	0	1.476722533	spermatogonia	PCBP2
FILIP1	6.32E-88	0.861272859	0.51	0.203	3.88E-83	2.51E+00	VSM_cells	FILIP1
LTBP12	2.35E-201	0.861198928	0.516	0.1	1.44E-196	5.16E+00	VSM_cells	LTBP1
CD8B	2.34E-149	0.86119771	0.132	0.001	1.43E-144	1.32E+02	T_cells	CD8B
CXorf36	0	0.861168799	0.419	0.001	0	419	endotheliocyte	CXorf36
MIR193BHG	0	0.861124161	0.538	0.145	0	3.710344828	spermatid	MIR193BHG
FAM43A	0	0.861085826	0.419	0.031	0	13.51612903	endotheliocyte	FAM43A
TCEAL1	0	0.861068117	0.489	0.036	0	13.583333333	PTM_cells	TCEAL1
NCKAP1L1	1.83E-33	0.860965835	0.237	0.013	1.12E-28	1.82E+01	T_cells	NCKAP1L
LRRC17	0	0.860842099	0.413	0.025	0	16.52	Leydig_cells	LRRC17
FCGBP	1.27E-21	0.860785558	0.175	0.054	7.82E-17	3.24E+00	macrophages	FCGBP
RPS19	0	0.860374129	0.859	0.732	0	1.173497268	spermatogonia	RPS19
RPL34P18	0.004644961	0.860250399	0.226	0.207	1	1.09178744	endotheliocyte	RPL34P18
EEF1B2	6.68E-89	0.860210893	0.849	0.615	4.10E-84	1.38E+00	endotheliocyte	EEF1B2
MX1	0	0.859968439	0.467	0.027	0	17.2962963	endotheliocyte	MX1
MROH7	0	0.859865232	0.619	0.223	0	2.775784753	spermatid	MROH7
HIP1	0	0.859227789	0.575	0.173	0	3.323699422	spermatid	HIP1
GNB2L14	2.37E-06	0.858956524	0.684	0.471	0.145628935	1.452229299	T_cells	GNB2L1
WDR83OS1	6.93E-91	0.858829703	0.396	0.234	4.25E-86	1.69E+00	Sertoli_cells	WDR83OS
TSC22D3	7.46E-167	0.858796908	0.6	0.141	4.57E-162	4.26E+00	endotheliocyte	TSC22D3
EIF5	0	0.858674725	0.872	0.681	0	1.280469897	spermatogonia	EIF5
LSM6	0	0.858280153	0.506	0.074	0	6.837837838	spermatogonia	LSM6
RPL185	9.10E-241	0.858058946	0.798	0.558	5.58E-236	1.43E+00	Sertoli_cells	RPL18
SP100	0	0.857877153	0.521	0.049	0	10.63265306	endotheliocyte	SP100
09-Sep	3.50E-219	0.857638359	0.371	0.123	2.15E-214	3.02E+00	Sertoli_cells	09-Sep
TAGAP	5.83E-209	0.857533564	0.313	0.024	3.58E-204	1.30E+01	macrophages	TAGAP
TPT14	1.43E-112	0.857522508	0.934	0.858	8.76E-108	1.09E+00	VSM_cells	TPT1
SSX2IP	0	0.857382967	0.813	0.613	0	1.326264274	spermatid	SSX2IP
SPA17	0	0.857377042	0.991	0.664	0	1.49246988	spermatocyte	SPA17
HENMT1	0	0.857326343	0.642	0.23	0	2.791304348	spermatogonia	HENMT1
GIMAP6	0	0.857165841	0.474	0.002	0	237	endotheliocyte	GIMAP6
RPS194	1.83E-264	0.857155758	0.912	0.752	1.12E-259	1.21E+00	PTM_cells	RPS19
MYC3	1.55E-196	0.857056488	0.419	0.065	9.50E-192	6.45E+00	VSM_cells	MYC
ARL6IP53	0	0.857045528	0.639	0.183	0	3.491803279	PTM_cells	ARL6IP5
INSL31	1.59E-82	0.856598678	0.267	0.106	9.73E-78	2.52E+00	PTM_cells	INSL3
G6PD	1.80E-307	0.856484586	0.313	0.067	1.10E-302	4.67E+00	Sertoli_cells	G6PD
RPL39L	0	0.856381578	0.974	0.534	0	1.823970037	spermatocyte	RPL39L
ZNF711	0	0.856365746	0.321	0.054	0	5.944444444	Sertoli_cells	ZNF711
SPARC	1.12E-132	0.856291034	0.742	0.241	6.87E-128	3.08E+00	endotheliocyte	SPARC
YPEL1	0	0.85624151	0.961	0.486	0	1.977366255	spermatocyte	YPEL1
PSAP2	9.80E-271	0.856146566	0.798	0.431	6.01E-266	1.85E+00	PTM_cells	PSAP
SLC38A7	0	0.855870985	0.578	0.13	0	4.446153846	spermatid	SLC38A7
NR4A14	8.16E-31	0.855592884	0.329	0.257	5.01E-26	1.28E+00	Sertoli_cells	NR4A1
FAM129A	4.48E-153	0.855444645	0.283	0.026	2.75E-148	1.09E+01	macrophages	FAM129A
TAGLN21	4.27E-38	0.855097147	0.471	0.21	2.62E-33	2.24E+00	macrophages	TAGLN2
TDRG1	0	0.854638109	0.387	0.142	0	2.725352113	spermatogonia	TDRG1
TMSB102	0	0.854372794	0.886	0.377	0	2.350132626	Leydig_cells	TMSB10
NDUFA42	2.12E-74	0.854185591	0.581	0.523	1.30E-69	1.11E+00	Sertoli_cells	NDUFA4
FOXP1	5.16E-67	0.854085348	0.675	0.395	3.17E-62	1.71E+00	endotheliocyte	FOXP1
SRRM2	0	0.853769354	0.792	0.491	0	1.613034623	spermatogonia	SRRM2
ATRX	8.11E-144	0.853631664	0.578	0.143	4.97E-139	4.04E+00	endotheliocyte	ATRX
MMP15	0	0.853251514	0.293	0.03	0	9.766666667	Sertoli_cells	MMP15
CHIC2	0	0.853200322	0.69	0.349	0	1.977077364	spermatogonia	CHIC2
RND3	0	0.8531933	0.427	0.046	0	9.282608696	VSM_cells	RND3
SPACA9	0	0.853023048	0.337	0.138	0	2.442028986	spermatid	SPACA9
RPL36A3	0	0.852937402	0.557	0.119	0	4.680672269	PTM_cells	RPL36A
PRR30	0	0.852847766	0.69	0.367	0	1.880108992	spermatid	PRR30
ARPC1B	3.75E-272	0.852771023	0.536	0.071	2.30E-267	7.55E+00	endotheliocyte	ARPC1B
GPAA1	0	0.852721505	0.548	0.143	0	3.832167832	spermatogonia	GPAA1
CITED22	3.34E-10	0.852506225	0.316	0.07	2.05E-05	4.51E+00	T_cells	CITED2
SLC2A32	0	0.852158416	0.432	0.076	0	5.684210526	PTM_cells	SLC2A3
SDPR1	0.006277763	0.851887237	0.12	0.044	1	2.727272727	mastocyte	SDPR
MCL15	0.001857294	0.851514493	0.579	0.53	1	1.09245283	T_cells	MCL1

FLNA3	4.54E-11	0.851096842	0.447	0.119	2.78E-06	3.76E+00	T_cells	FLNA
PPP1R1C	0	0.851055015	0.865	0.247	0	3.502024291	spermatocyte	PPP1R1C
RAE1	0	0.851019571	0.883	0.4	0	2.2075	spermatocyte	RAE1
TNFRSF1B1	2.08E-76	0.850832978	0.316	0.01	1.28E-71	3.16E+01	T_cells	TNFRSF1B
DCAF4L1	0	0.850790915	0.566	0.175	0	3.234285714	spermatogonia	DCAF4L1
HN1	0	0.850768488	0.992	0.709	0	1.399153738	spermatocyte	HN1
SLC9B1	0	0.850608645	0.879	0.278	0	3.161870504	spermatocyte	SLC9B1
ATP6V1G1	0	0.850036693	0.754	0.448	0	1.683035714	spermatogonia	ATP6V1G1
01-Mar	3.18E-244	0.84986653	0.296	0.018	1.95E-239	1.64E+01	macrophages	01-Mar
EEF1B25	7.11E-08	0.849736347	0.816	0.618	0.004364205	1.32038835	T_cells	EEF1B2
FUZ	0	0.849540059	0.766	0.53	0	1.445283019	spermatid	FUZ
PID1	0	0.849471728	0.393	0.03	0	13.1	Leydig_cells	PID1
TPM32	1.17E-78	0.849424933	0.484	0.383	7.16E-74	1.26E+00	Sertoli_cells	TPM3
UTRN	1.85E-64	0.849148322	0.66	0.366	1.14E-59	1.80E+00	endotheliocyte	UTRN
GLTSCR23	2.88E-06	0.849073147	0.684	0.521	0.176587217	1.312859885	T_cells	GLTSCR2
TPD52L3	0	0.849006945	0.983	0.498	0	1.973895582	spermatocyte	TPD52L3
ACTR2	9.56E-26	0.848708912	0.512	0.339	5.86E-21	1.51E+00	macrophages	ACTR2
GRB2	1.94E-42	0.848300465	0.397	0.149	1.19E-37	2.66E+00	macrophages	GRB2
MPEG1	0	0.848046499	0.29	0.001	0	290	macrophages	MPEG1
TSPO4	0	0.847983697	0.594	0.084	0	7.071428571	VSM_cells	TSPO
PABPC1	0	0.847979829	0.996	0.821	0	1.213154689	spermatocyte	PABPC1
LRRC46	0	0.847979063	0.934	0.296	0	3.155405405	spermatocyte	LRRC46
GMFG	3.17E-79	0.847884055	0.333	0.069	1.94E-74	4.83E+00	macrophages	GMFG
TAGAP1	9.62E-20	0.847864593	0.263	0.027	5.90E-15	9.74E+00	T_cells	TAGAP
SMS	0	0.847813245	0.32	0.058	0	5.517241379	spermatogonia	SMS
MGAT1	7.05E-21	0.847550422	0.397	0.233	4.33E-16	1.70E+00	macrophages	MGAT1
NES	0	0.84747678	0.412	0.028	0	14.71428571	endotheliocyte	NES
RGMB-AS1	0	0.847445116	0.566	0.257	0	2.20233463	spermatocyte	RGMB-AS1
MTX2	0	0.847380253	0.644	0.287	0	2.243902439	spermatogonia	MTX2
SLC39A13	0	0.847340983	0.682	0.333	0	2.048048048	spermatid	SLC39A13
MAP1B1	0	0.847121545	0.605	0.141	0	4.290780142	PTM_cells	MAP1B
TXNIP3	0	0.847056941	0.684	0.148	0	4.621621622	PTM_cells	TXNIP
RP11.597D13.8	0	0.847050195	0.351	0.129	0	2.720930233	spermatid	RP11.597D13.8
DMRTC2	0	0.846883145	0.485	0.094	0	5.159574468	spermatogonia	DMRTC2
HSPA1A4	6.38E-79	0.846671581	0.683	0.358	3.91E-74	1.91E+00	VSM_cells	HSPA1A
TCEAL4	0	0.84664859	0.627	0.173	0	3.624277457	Leydig_cells	TCEAL4
RAC11	6.30E-91	0.846323047	0.749	0.374	3.86E-86	2.00E+00	endotheliocyte	RAC1
FAU2	2.45E-117	0.845948039	0.909	0.836	1.50E-112	1.09E+00	VSM_cells	FAU
SQLE	0	0.845912015	0.603	0.217	0	2.778801843	spermatogonia	SQLE
C3AR1	0	0.845844562	0.279	0.008	0	34.875	macrophages	C3AR1
S100A101	1.16E-121	0.84581771	0.672	0.43	7.10E-117	1.56E+00	Leydig_cells	S100A10
IL6	1.28E-288	0.845737896	0.261	0.015	7.84E-284	1.74E+01	endotheliocyte	IL6
LY6E2	0	0.845294729	0.578	0.095	0	6.084210526	PTM_cells	LY6E
ANXA53	2.33E-288	0.844707159	0.689	0.301	1.43E-283	2.29E+00	PTM_cells	ANXA5
PSAP3	1.29E-20	0.844542939	0.431	0.45	7.94E-16	9.58E-01	Sertoli_cells	PSAP
TCTE3	0	0.844461876	0.859	0.228	0	3.76754386	spermatocyte	TCTE3
GEM	0	0.844461316	0.406	0.042	0	9.666666667	VSM_cells	GEM
SERTAD13	1.46E-239	0.84429963	0.469	0.07	8.97E-235	6.70E+00	VSM_cells	SERTAD1
SAE1	0	0.843781772	0.612	0.157	0	3.898089172	spermatogonia	SAE1
RPL29	1.05E-110	0.843460817	0.943	0.846	6.46E-106	1.11E+00	endotheliocyte	RPL29
HRASLS	0	0.843284207	0.951	0.428	0	2.221962617	spermatocyte	HRASLS
RPL27	2.93E-93	0.842439897	0.883	0.659	1.79E-88	1.34E+00	endotheliocyte	RPL27
MDFIC	1.27E-23	0.842408841	0.237	0.019	7.79E-19	1.25E+01	T_cells	MDFIC
CARTPT	0	0.842284682	0.765	0.117	0	6.538461538	spermatocyte	CARTPT
RNF114	0	0.841907592	0.99	0.64	0	1.546875	spermatocyte	RNF114
RPS93	1.18E-288	0.841712378	0.914	0.834	7.24E-284	1.10E+00	PTM_cells	RPS9
RPS213	4.46E-242	0.841710266	0.906	0.668	2.73E-237	1.36E+00	Leydig_cells	RPS2
RNF141	0	0.841577086	0.727	0.541	0	1.343807763	spermatid	RNF141
GALNTL5	0	0.841468554	0.638	0.243	0	2.625514403	spermatid	GALNTL5
TXN	1.02E-114	0.840769721	0.685	0.258	6.26E-110	2.66E+00	endotheliocyte	TXN
RBM46	0	0.840742688	0.592	0.203	0	2.916256158	spermatogonia	RBM46
GAMT	0	0.840654924	0.533	0.088	0	6.056818182	PTM_cells	GAMT
KIAA1551	0.000534581	0.840105999	0.342	0.177	1	1.93220339	T_cells	KIAA1551
TUBA3C	0	0.839688947	0.991	0.571	0	1.735551664	spermatocyte	TUBA3C
ZEB22	3.39E-255	0.839559732	0.497	0.074	2.08E-250	6.72E+00	VSM_cells	ZEB2
RAB11FIP1	5.57E-133	0.839543696	0.306	0.036	3.42E-128	8.50E+00	macrophages	RAB11FIP1
PPA11	9.92E-87	0.839435338	0.44	0.291	6.09E-82	1.51E+00	Sertoli_cells	PPA1
PPIG	0	0.839287153	0.667	0.267	0	2.498127341	spermatogonia	PPIG
MMP23B	0	0.838342763	0.465	0.025	0	18.6	PTM_cells	MMP23B
RPL364	2.82E-142	0.838097567	0.757	0.699	1.73E-137	1.08E+00	Sertoli_cells	RPL36
ARL4C	8.44E-119	0.83801351	0.219	0.02	5.18E-114	1.10E+01	macrophages	ARL4C
RPL222	2.19E-246	0.837633962	0.85	0.638	1.34E-241	1.33E+00	PTM_cells	RPL22
LRRIQ3	0	0.837287111	0.901	0.294	0	3.06462585	spermatocyte	LRRIQ3
RIF1	0	0.837146337	0.527	0.154	0	3.422077922	spermatogonia	RIF1
CD931	2.88E-139	0.837098551	0.263	0.025	1.77E-134	1.05E+01	macrophages	CD93

KLF104	2.01E-79	0.837006397	0.543	0.241	1.23E-74	2.25E+00	VSM_cells	KLF10
VASP	3.88E-08	0.836971413	0.263	0.061	0.002378949	4.31147541	T_cells	VASP
GLRX	2.47E-205	0.836696795	0.283	0.02	1.51E-200	1.42E+01	macrophages	GLRX
PRPF8	0	0.836606346	0.638	0.271	0	2.354243542	spermatogonia	PRPF8
MKRN1	0	0.836580706	0.961	0.501	0	1.918163673	spermatocyte	MKRN1
MTATP6P12	1.03E-44	0.836338559	0.374	0.23	6.31E-40	1.63E+00	Leydig_cells	MTATP6P1
ASB17	0	0.835919837	0.647	0.335	0	1.931343284	spermatid	ASB17
IFT74	0	0.835915359	0.895	0.295	0	3.033898305	spermatocyte	IFT74
MTND1P231	1.12E-26	0.835771298	0.576	0.372	6.89E-22	1.55E+00	macrophages	MTND1P23
PDCD7	0	0.835705099	0.578	0.142	0	4.070422535	spermatogonia	PDCD7
RPL362	4.37E-212	0.835676781	0.842	0.695	2.68E-207	1.21E+00	PTM_cells	RPL36
SRRM5	0	0.835617846	0.513	0.103	0	4.980582524	spermatid	SRRM5
RPS235	7.49E-08	0.835574712	0.842	0.83	0.004592166	1.014457831	T_cells	RPS23
ACP1	0	0.83542725	0.751	0.608	0	1.235197368	spermatid	ACP1
MFS2A	0	0.834747048	0.283	0.012	0	23.58333333	Sertoli_cells	MFS2A
ATAD1	0	0.834148541	0.76	0.522	0	1.455938697	spermatid	ATAD1
WDR78	0	0.834140178	0.9	0.234	0	3.846153846	spermatocyte	WDR78
QSOX11	8.20E-34	0.834073832	0.355	0.293	5.03E-29	1.21E+00	Sertoli_cells	QSOX1
CD68	0	0.833913249	0.3	0.004	0	75	macrophages	CD68
CYR613	2.29E-144	0.833720625	0.298	0.105	1.41E-139	2.84E+00	Sertoli_cells	CYR61
PER1	2.64E-28	0.833649541	0.414	0.204	1.62E-23	2.03E+00	macrophages	PER1
MT-ND11	3.01E-66	0.83362633	0.734	0.406	1.85E-61	1.81E+00	endotheliocyte	MT-ND1
ITGA7	0	0.83358526	0.448	0.048	0	9.333333333	VSM_cells	ITGA7
AKR1C11	0	0.833559821	0.503	0.074	0	6.797297297	PTM_cells	AKR1C1
LAMA2	2.75E-254	0.833512968	0.368	0.081	1.69E-249	4.54E+00	Leydig_cells	LAMA2
IGSF6	0	0.833508642	0.29	0.002	0	145	macrophages	IGSF6
TTK	0	0.833426516	0.844	0.243	0	3.473251029	spermatocyte	TTK
PA2G4	0	0.83342192	0.964	0.498	0	1.935742972	spermatocyte	PA2G4
CASP41	2.55E-30	0.832975158	0.263	0.018	1.57E-25	1.46E+01	T_cells	CASP4
MKRN2	0	0.832873315	0.672	0.475	0	1.414736842	spermatid	MKRN2
SLFN5	0	0.832693683	0.429	0.016	0	26.8125	endotheliocyte	SLFN5
CCDC146	0	0.832571912	0.932	0.281	0	3.316725979	spermatocyte	CCDC146
RBX1	0	0.832552774	0.698	0.325	0	2.147692308	spermatogonia	RBX1
RPL7	5.79E-70	0.832393269	0.913	0.794	3.55E-65	1.15E+00	endotheliocyte	RPL7
NFIC	6.26E-188	0.832231	0.559	0.234	3.84E-183	2.39E+00	Leydig_cells	NFIC
NR4A11	1.45E-127	0.832217569	0.522	0.25	8.91E-123	2.09E+00	Leydig_cells	NR4A1
HNRNPA1	5.69E-79	0.832107027	0.841	0.602	3.49E-74	1.40E+00	endotheliocyte	HNRNPA1
CKB1	3.21E-151	0.831899128	0.726	0.689	1.97E-146	1.05E+00	Sertoli_cells	CKB
RPSA3	2.30E-10	0.831661027	0.868	0.622	1.41E-05	1.40E+00	T_cells	RPSA
CCND2	0	0.831148242	0.463	0.039	0	11.87179487	PTM_cells	CCND2
PTMA3	1.14E-274	0.831114646	0.905	0.644	6.99E-270	1.41E+00	PTM_cells	PTMA
ROPN1B	0	0.831055006	0.99	0.627	0	1.578947368	spermatocyte	ROPN1B
AES	0	0.831037735	0.531	0.134	0	3.962686567	Leydig_cells	AES
CRTAP1	0	0.831019228	0.448	0.094	0	4.765957447	Leydig_cells	CRTAP
IFI44L1	5.23E-124	0.830964589	0.3	0.036	3.21E-119	8.33E+00	macrophages	IFI44L
IPO5	0	0.830913829	0.852	0.704	0	1.210227273	spermatid	IPO5
RPL242	1.70E-238	0.830695311	0.875	0.736	1.04E-233	1.19E+00	PTM_cells	RPL24
ATP5I	1.43E-33	0.83008821	0.361	0.293	8.78E-29	1.23E+00	Sertoli_cells	ATP5I
RPS252	1.19E-07	0.830040894	0.921	0.833	0.007320355	1.105642257	T_cells	RPS25
RPS114	1.40E-113	0.830012141	0.92	0.821	8.56E-109	1.12E+00	VSM_cells	RPS11
SERTAD1	1.39E-285	0.829971245	0.546	0.07	8.50E-281	7.80E+00	endotheliocyte	SERTAD1
COX7A12	7.00E-246	0.82977115	0.495	0.077	4.30E-241	6.43E+00	VSM_cells	COX7A1
RACK1	8.17E-16	0.829612863	0.374	0.232	5.01E-11	1.61E+00	macrophages	RACK1
SLC6A8	0	0.828937328	0.305	0.032	0	9.53125	Sertoli_cells	SLC6A8
CLEC2B1	2.23E-42	0.828542015	0.316	0.018	1.37E-37	1.76E+01	T_cells	CLEC2B
SLCO2B1	2.62E-226	0.828256604	0.263	0.015	1.61E-221	1.75E+01	macrophages	SLCO2B1
FRMD4B1	1.29E-81	0.82824299	0.337	0.067	7.91E-77	5.03E+00	macrophages	FRMD4B
SERPINH1	0	0.828170262	0.468	0.089	0	5.258426966	Leydig_cells	SERPINH1
TNFAIP8	9.59E-100	0.828033388	0.266	0.036	5.88E-95	7.39E+00	macrophages	TNFAIP8
C8orf41	0	0.827385595	0.34	0.017	0	20	Leydig_cells	C8orf4
RACK11	1.83E-25	0.827271858	0.312	0.23	1.12E-20	1.36E+00	Leydig_cells	RACK1
NUDC	0	0.826806382	0.704	0.415	0	1.696385542	spermatogonia	NUDC
LAMP2	0	0.826669552	0.444	0.085	0	5.223529412	Leydig_cells	LAMP2
IFI27L1	2.76E-82	0.826018947	0.582	0.534	1.69E-77	1.09E+00	Sertoli_cells	IFI27L1
RPL13AP251	7.09E-29	0.825720156	0.316	0.125	4.35E-24	2.53E+00	macrophages	RPL13AP25
SLCO6A1	0	0.825650737	0.904	0.255	0	3.545098039	spermatocyte	SLCO6A1
PROK11	0	0.825605762	0.401	0.058	0	6.913793103	PTM_cells	PROK1
LYVE1	0	0.825559774	0.205	0.005	0	41	macrophages	LYVE1
CD7	4.79E-53	0.825433589	0.158	0.004	2.94E-48	3.95E+01	T_cells	CD7
DSE	9.23E-39	0.825408841	0.33	0.115	5.66E-34	2.87E+00	macrophages	DSE
MIS18A	0	0.825050953	0.612	0.144	0	4.25	spermatogonia	MIS18A
DDX51	2.20E-49	0.825018633	0.855	0.764	1.35E-44	1.12E+00	macrophages	DDX5
TEX30	0	0.825001821	0.762	0.54	0	1.411111111	spermatogonia	TEX30
RPL94	2.42E-13	0.824849288	0.974	0.875	1.49E-08	1.11E+00	T_cells	RPL9
SNHG51	6.87E-38	0.824803003	0.273	0.081	4.22E-33	3.37E+00	macrophages	SNHG5

PRDX1	0	0.82450456	0.635	0.234	0	2.713675214	spermatogonia	PRDX1
RPL35A	3.48E-103	0.824293636	0.963	0.87	2.14E-98	1.11E+00	endotheliocyte	RPL35A
UBE2N	0	0.824160167	0.907	0.817	0	1.110159119	spermatid	UBE2N
RP11.104H15.12	0	0.823994237	0.309	0.085	0	3.635294118	spermatid	RP11.104H15.12
PNISR	0	0.823770404	0.703	0.359	0	1.95821727	spermatogonia	PNISR
LSP1	5.54E-129	0.823736384	0.273	0.029	3.40E-124	9.41E+00	macrophages	LSP1
PLOD1	0	0.823695688	0.336	0.03	0	11.2	Leydig_cells	PLOD1
RPS92	4.54E-256	0.823488733	0.936	0.834	2.78E-251	1.12E+00	Leydig_cells	RPS9
EMP22	0	0.823205989	0.577	0.17	0	3.394117647	PTM_cells	EMP2
GJA4	4.00E-286	0.823197993	0.251	0.014	2.45E-281	1.79E+01	endotheliocyte	GJA4
RAB11A	0	0.823119234	0.957	0.474	0	2.018987342	spermatocyte	RAB11A
MYCT1	6.21E-303	0.822837923	0.434	0.044	3.81E-298	9.86E+00	endotheliocyte	MYCT1
PYCARD	5.96E-299	0.822719859	0.313	0.016	3.65E-294	1.96E+01	macrophages	PYCARD
PPIF1	1.28E-176	0.82239201	0.323	0.112	7.85E-172	2.88E+00	Sertoli_cells	PPIF
ANAPC15	0	0.822322804	0.558	0.157	0	3.554140127	spermatogonia	ANAPC15
ADAM29	0	0.821841988	0.684	0.303	0	2.257425743	spermatid	ADAM29
PCDH17	0	0.821790787	0.747	0.168	0	4.446428571	spermatocyte	PCDH17
CTNNAL1	1.94E-65	0.8217033	0.618	0.337	1.19E-60	1.83E+00	endotheliocyte	CTNNAL1
RPS282	2.34E-219	0.821648889	0.83	0.599	1.44E-214	1.39E+00	PTM_cells	RPS28
ADD3	1.40E-126	0.821490598	0.63	0.406	8.62E-122	1.55E+00	Leydig_cells	ADD3
GGNBP2	0	0.821400805	0.985	0.577	0	1.707105719	spermatocyte	GGNBP2
MT-ND2	1.49E-137	0.821216193	0.487	0.393	9.16E-133	1.24E+00	spermatogonia	MT-ND2
REEP6	0	0.821079666	0.699	0.406	0	1.721674877	spermatid	REEP6
RNF113B	0	0.820990015	0.757	0.167	0	4.532934132	spermatocyte	RNF113B
VCAM1	0	0.820902566	0.323	0.019	0	17	endotheliocyte	VCAM1
SUPT20H	0	0.820897663	0.898	0.319	0	2.815047022	spermatocyte	SUPT20H
CCNL1	6.65E-26	0.820772635	0.535	0.345	4.08E-21	1.55E+00	macrophages	CCNL1
TBL2	0	0.820242889	0.987	0.537	0	1.837988827	spermatocyte	TBL2
LACTB2	0	0.820075574	0.879	0.307	0	2.863192182	spermatocyte	LACTB2
ADAM30	0	0.819843783	0.878	0.181	0	4.850828729	spermatocyte	ADAM30
TAF7L	2.51E-170	0.819826571	0.331	0.12	1.54E-165	2.76E+00	Sertoli_cells	TAF7L
LSAMP	0	0.819826517	0.4	0.081	0	4.938271605	Leydig_cells	LSAMP
UQCR10	0	0.819745884	0.913	0.513	0	1.779727096	spermatocyte	UQCR10
RPL36A2	9.98E-254	0.819498594	0.476	0.126	6.12E-249	3.78E+00	Leydig_cells	RPL36A
PIK3R1	1.79E-48	0.819346009	0.33	0.095	1.10E-43	3.47E+00	macrophages	PIK3R1
MT-ATP8	1.57E-194	0.819268866	0.529	0.106	9.66E-190	4.99E+00	VSM_cells	MT-ATP8
GS1.259H13.2	0	0.819074215	0.404	0.157	0	2.573248408	spermatocyte	GS1.259H13.2
DNAL1	0	0.819049676	0.913	0.346	0	2.638728324	spermatocyte	DNAL1
C1QTNF1	0	0.818999496	0.412	0.011	0	37.45454545	VSM_cells	C1QTNF1
DDX25	0	0.818837312	0.958	0.402	0	2.383084577	spermatocyte	DDX25
TSPO1	1.38E-58	0.818757466	0.35	0.09	8.46E-54	3.89E+00	macrophages	TSPO
TAX1BP31	0	0.818553802	0.493	0.098	0	5.030612245	PTM_cells	TAX1BP3
UBE2J2	0	0.818249471	0.96	0.498	0	1.927710843	spermatocyte	UBE2J2
EPAS1	4.71E-241	0.818123057	0.493	0.077	2.89E-236	6.40E+00	VSM_cells	EPAS1
SAXO1	0	0.818053884	0.553	0.286	0	1.933566434	spermatid	SAXO1
RPL263	1.64E-223	0.817931523	0.888	0.749	1.01E-218	1.19E+00	PTM_cells	RPL26
MGST21	0	0.817797325	0.29	0.056	0	5.178571429	Sertoli_cells	MGST2
PTN2	1.32E-156	0.817576175	0.373	0.156	8.08E-152	2.39E+00	Sertoli_cells	PTN
COL4A2	0	0.817529826	0.474	0.054	0	8.777777778	PTM_cells	COL4A2
CTD-2568A17.1	1.52E-157	0.81719053	0.439	0.368	9.33E-153	1.19E+00	spermatid	CTD-2568A17.1
CRIP2	4.35E-67	0.816971308	0.655	0.328	2.67E-62	2.00E+00	endotheliocyte	CRIP2
CYB5R33	2.13E-123	0.81689207	0.413	0.218	1.31E-118	1.89E+00	Sertoli_cells	CYB5R3
LINC009361	1.20E-07	0.816803072	0.211	0.043	0.007378944	4.906976744	T_cells	LINC00936
RPS281	5.20E-178	0.816779467	0.814	0.601	3.19E-173	1.35E+00	Leydig_cells	RPS28
IFT172	0	0.816770475	0.61	0.285	0	2.140350877	spermatid	IFT172
MRPL43	0	0.816746468	0.911	0.38	0	2.397368421	spermatocyte	MRPL43
EFCAB1	0	0.816389637	0.643	0.344	0	1.869186047	spermatid	EFCAB1
BBIP1	0	0.81633721	0.946	0.47	0	2.012765957	spermatocyte	BBIP1
BTG14	1.15E-74	0.816313865	0.797	0.607	7.05E-70	1.31E+00	VSM_cells	BTG1
C3orf22	0	0.816201826	0.569	0.207	0	2.748792271	spermatid	C3orf22
PIH1D2	0	0.816148812	0.951	0.38	0	2.502631579	spermatocyte	PIH1D2
RASSF4	9.95E-273	0.815881341	0.306	0.017	6.11E-268	1.80E+01	macrophages	RASSF4
YBX1	0	0.81571757	0.998	0.908	0	1.099118943	spermatocyte	YBX1
FOSB5	1.05E-26	0.814765558	0.389	0.341	6.43E-22	1.14E+00	Sertoli_cells	FOSB
TYSND1	0	0.814693556	0.848	0.255	0	3.325490196	spermatocyte	TYSND1
IFI272	0	0.814670874	0.553	0.113	0	4.89380531	PTM_cells	IFI27
RPL114	3.01E-107	0.814274143	0.922	0.824	1.85E-102	1.12E+00	VSM_cells	RPL11
RPL13A5	2.26E-280	0.813991482	0.858	0.729	1.38E-275	1.18E+00	Sertoli_cells	RPL13A
TMEM205	0	0.813876941	0.644	0.408	0	1.578431373	spermatid	TMEM205
NUCKS13	7.14E-94	0.813664984	0.729	0.396	4.38E-89	1.84E+00	VSM_cells	NUCKS1
FBN11	0	0.813616975	0.531	0.106	0	5.009433962	PTM_cells	FBN1
LGALS32	0	0.813461313	0.602	0.189	0	3.185185185	PTM_cells	LGALS3
HSBP1	0	0.813211672	0.943	0.528	0	1.785984848	spermatocyte	HSBP1
GSTP1	1.55E-171	0.813177341	0.702	0.166	9.50E-167	4.23E+00	endotheliocyte	GSTP1
CCDC65	0	0.813069333	0.932	0.258	0	3.612403101	spermatocyte	CCDC65

FTH1P102	9.64E-05	0.813007883	0.36	0.162	1	2.222222222	mastocyte	FTH1P10
MTHFD2	2.09E-119	0.812884549	0.503	0.155	1.28E-114	3.25E+00	VSM_cells	MTHFD2
HSF5	0	0.812835867	0.859	0.197	0	4.360406091	spermatocyte	HSF5
EZR	2.29E-20	0.81264635	0.424	0.247	1.41E-15	1.72E+00	macrophages	EZR
PLSCR4	0	0.812431228	0.484	0.033	0	14.66666667	endotheliocyte	PLSCR4
PIGP	0	0.812333407	0.561	0.319	0	1.75862069	spermatogonia	PIGP
TPM4	7.71E-115	0.812275316	0.655	0.231	4.73E-110	2.84E+00	endotheliocyte	TPM4
HLA-DPB1	0	0.812202128	0.491	0.028	0	17.53571429	endotheliocyte	HLA-DPB1
EID14	1.48E-126	0.811870109	0.548	0.354	9.10E-122	1.55E+00	Sertoli_cells	EID1
SLC26A8	0	0.811845795	0.891	0.25	0	3.564	spermatocyte	SLC26A8
CRIP21	3.49E-92	0.811550409	0.677	0.327	2.14E-87	2.07E+00	VSM_cells	CRIP2
DDX46	0	0.811458069	0.639	0.339	0	1.884955752	spermatogonia	DDX46
GUK12	6.01E-49	0.811248211	0.526	0.507	3.69E-44	1.04E+00	Sertoli_cells	GUK1
MAF3	6.35E-05	0.8111453	0.237	0.076	1	3.118421053	T_cells	MAF
GNAI2	7.57E-74	0.810998246	0.715	0.422	4.65E-69	1.69E+00	endotheliocyte	GNAI2
HSPA1A2	1.45E-149	0.810810801	0.634	0.352	8.89E-145	1.80E+00	Leydig_cells	HSPA1A
GRID2	0	0.810732921	0.578	0.156	0	3.705128205	spermatid	GRID2
PAGE2	0	0.810729287	0.354	0.036	0	9.833333333	spermatogonia	PAGE2
RPS25	4.76E-96	0.810650596	0.933	0.832	2.92E-91	1.12E+00	endotheliocyte	RPS25
MAGEA4	0	0.810446782	0.334	0.026	0	12.84615385	spermatogonia	MAGEA4
ZC3H13	0	0.810432345	0.546	0.123	0	4.43902439	spermatogonia	ZC3H13
LPP	0	0.810345451	0.724	0.37	0	1.956756757	spermatid	LPP
ANXA54	8.31E-88	0.81020082	0.462	0.311	5.10E-83	1.49E+00	Sertoli_cells	ANXA5
FXVD1	0	0.810072953	0.386	0.04	0	9.65	Leydig_cells	FXVD1
IFNGR11	2.58E-37	0.809886134	0.333	0.12	1.58E-32	2.78E+00	macrophages	IFNGR1
ANKRD53	0	0.809710042	0.568	0.17	0	3.341176471	spermatid	ANKRD53
ACAP11	1.55E-05	0.809701796	0.579	0.369	0.9496676	1.569105691	T_cells	ACAP1
RPL113	2.24E-262	0.809112711	0.924	0.821	1.38E-257	1.13E+00	PTM_cells	RPL11
CTSV	3.22E-285	0.809093219	0.285	0.059	1.98E-280	4.83E+00	Sertoli_cells	CTSV
RPS3A2	0	0.808840261	0.947	0.896	0	1.056919643	PTM_cells	RPS3A
ACAP1	0	0.808805228	0.601	0.262	0	2.29389313	spermatid	ACAP1
NDUFS52	3.46E-43	0.808760374	0.47	0.449	2.12E-38	1.05E+00	Sertoli_cells	NDUFS5
RB1	1.47E-28	0.80871611	0.357	0.164	9.02E-24	2.18E+00	macrophages	RB1
ASS1	0	0.808648878	0.484	0.034	0	14.23529412	endotheliocyte	ASS1
PPP2R3C	0	0.808626577	0.958	0.461	0	2.078091106	spermatocyte	PPP2R3C
AKAP13	1.07E-19	0.808578983	0.539	0.409	6.58E-15	1.32E+00	macrophages	AKAP13
ZFH3	5.98E-53	0.808387712	0.327	0.088	3.67E-48	3.72E+00	macrophages	ZFH3
ZFP36L14	4.45E-81	0.808318042	0.712	0.393	2.73E-76	1.81E+00	VSM_cells	ZFP36L1
UBE2S	0	0.808301755	0.973	0.566	0	1.719081272	spermatocyte	UBE2S
SPATA17	0	0.80809216	0.977	0.462	0	2.114718615	spermatocyte	SPATA17
SSB	0	0.807949831	0.57	0.158	0	3.607594937	spermatogonia	SSB
YWHAH	6.68E-47	0.807856282	0.33	0.098	4.10E-42	3.37E+00	macrophages	YWHAH
CYB5A1	3.43E-129	0.807768149	0.326	0.135	2.10E-124	2.41E+00	Sertoli_cells	CYB5A
RBM31	8.18E-131	0.807731483	0.71	0.221	5.02E-126	3.21E+00	endotheliocyte	RBM3
IGF11	0	0.807589393	0.473	0.067	0	7.059701493	PTM_cells	IGF1
SPARC1	0	0.807569409	0.706	0.229	0	3.082969432	Leydig_cells	SPARC
PFN1	0	0.807418931	0.635	0.347	0	1.829971182	spermatogonia	PFN1
STK17A	0.002082773	0.8073444	0.421	0.292	1	1.441780822	T_cells	STK17A
ANXA23	0	0.807324174	0.707	0.276	0	2.561594203	PTM_cells	ANXA2
NAMPT	1.92E-119	0.807291245	0.541	0.148	1.17E-114	3.66E+00	endotheliocyte	NAMPT
TSPO5	4.19E-10	0.807062662	0.368	0.092	2.57E-05	4.00E+00	T_cells	TSPO
EGR1	1.11E-109	0.806809739	0.715	0.257	6.83E-105	2.78E+00	endotheliocyte	EGR1
CYGB	0	0.806804953	0.321	0.019	0	16.89473684	Leydig_cells	CYGB
GGTA1P	0	0.806799178	0.185	0.002	0	92.5	macrophages	GGTA1P
ARFGAP3	0	0.806756947	0.618	0.281	0	2.199288256	spermatogonia	ARFGAP3
RPS21	0	0.80663011	0.746	0.464	0	1.607758621	spermatogonia	RPS21
08-Mar	0	0.806543638	0.622	0.395	0	1.574683544	spermatid	08-Mar
LDLR1	0	0.806325981	0.369	0.059	0	6.254237288	Leydig_cells	LDLR
JMJD1C1	1.13E-57	0.806281844	0.64	0.366	6.95E-53	1.75E+00	endotheliocyte	JMJD1C
STX11	0	0.806217479	0.286	0.01	0	28.6	macrophages	STX11
NKTR	0	0.806215984	0.68	0.332	0	2.048192771	spermatogonia	NKTR
EFHD2	1.62E-97	0.806172576	0.523	0.382	9.96E-93	1.37E+00	Sertoli_cells	EFHD2
MT.RNR21	7.46E-27	0.806138014	0.576	0.372	4.57E-22	1.55E+00	macrophages	MT.RNR2
GPR34	0	0.806135367	0.239	0.003	0	79.66666667	macrophages	GPR34
LMOD1	0	0.805990087	0.492	0.035	0	14.05714286	PTM_cells	LMOD1
ETS1	0	0.805408389	0.434	0.033	0	13.15151515	endotheliocyte	ETS1
RPS172	2.23E-39	0.805393637	0.741	0.471	1.37E-34	1.57E+00	macrophages	RPS17
CALM11	6.36E-224	0.805170539	0.846	0.685	3.90E-219	1.24E+00	PTM_cells	CALM1
KCNH2	0	0.805127139	0.299	0.035	0	8.542857143	Sertoli_cells	KCNH2
RPS163	2.22E-262	0.80502041	0.906	0.75	1.36E-257	1.21E+00	PTM_cells	RPS16
IL1R2	4.45E-186	0.804955926	0.182	0.009	2.73E-181	2.02E+01	macrophages	IL1R2
CD55	0	0.804180261	0.487	0.187	0	2.604278075	spermatid	CD55
CAV22	0	0.804033686	0.536	0.103	0	5.203883495	PTM_cells	CAV2
CNBP	0	0.804027593	0.727	0.407	0	1.786240786	spermatogonia	CNBP
IL62	4.13E-181	0.803858601	0.195	0.015	2.53E-176	1.30E+01	VSM_cells	IL6

SPRY1	0	0.8038326	0.373	0.064	0	5.828125	Leydig_cells	SPRY1
RPL112	1.06E-206	0.803831545	0.923	0.822	6.47E-202	1.12E+00	Leydig_cells	RPL11
MXRA7	2.38E-260	0.803766357	0.451	0.115	1.46E-255	3.92E+00	Leydig_cells	MXRA7
DDX3X	0	0.803533666	0.681	0.429	0	1.587412587	spermatid	DDX3X
MAPRE3	0	0.802746766	0.609	0.358	0	1.701117318	spermatid	MAPRE3
RPL372	1.05E-237	0.802629163	0.917	0.801	6.43E-233	1.14E+00	Leydig_cells	RPL37
PAFAH1B3	0	0.802619879	0.296	0.067	0	4.417910448	spermatogonia	PAFAH1B3
RPS103	4.81E-07	0.80220044	0.763	0.541	0.029508898	1.410351201	T_cells	RPS10
RUVBL1	0	0.802159104	0.62	0.191	0	3.246073298	spermatogonia	RUVBL1
CCDC159	0	0.802037768	0.573	0.199	0	2.879396985	spermatid	CCDC159
ZYX1	2.92E-282	0.801894555	0.321	0.074	1.79E-277	4.34E+00	Sertoli_cells	ZYX
PPP3CC	0	0.801808644	0.896	0.261	0	3.432950192	spermatocyte	PPP3CC
CNN1	0	0.801803058	0.621	0.226	0	2.747787611	spermatid	CNN1
DDAH2	6.05E-236	0.80179349	0.5	0.162	3.71E-231	3.09E+00	Leydig_cells	DDAH2
RPL216	4.64E-273	0.801768578	0.81	0.455	2.85E-268	1.78E+00	Sertoli_cells	RPL21
DDIT42	0	0.801744011	0.488	0.067	0	7.28358209	PTM_cells	DDIT4
SMARCA1	2.48E-303	0.801720053	0.504	0.122	1.52E-298	4.13E+00	Leydig_cells	SMARCA1
ZDHHC19	0	0.801374884	0.645	0.28	0	2.303571429	spermatid	ZDHHC19
ISG15	5.27E-240	0.801226903	0.404	0.045	3.23E-235	8.98E+00	endotheliocyte	ISG15
PPP1CC	0	0.800907586	0.98	0.576	0	1.701388889	spermatocyte	PPP1CC
SLC3A21	1.62E-114	0.800650431	0.337	0.158	9.94E-110	2.13E+00	Sertoli_cells	SLC3A2
LGALS9	3.81E-179	0.800612672	0.256	0.019	2.33E-174	1.35E+01	macrophages	LGALS9
MAP3K14-AS1	0	0.800342312	0.396	0.174	0	2.275862069	spermatid	MAP3K14-AS1
TPR	0	0.800299616	0.789	0.595	0	1.32605042	spermatogonia	TPR
RPS95	9.83E-09	0.799733867	0.895	0.838	0.000602967	1.068019093	T_cells	RPS9
DUSP5	2.51E-145	0.799414552	0.454	0.088	1.54E-140	5.16E+00	endotheliocyte	DUSP5
CD151	3.34E-208	0.798925133	0.566	0.097	2.05E-203	5.84E+00	endotheliocyte	CD151
WSB11	5.41E-20	0.798922598	0.549	0.425	3.32E-15	1.29E+00	macrophages	WSB1
COL4A21	3.60E-222	0.798859672	0.446	0.068	2.21E-217	6.56E+00	VSM_cells	COL4A2
TMEM99	2.92E-258	0.798852103	0.564	0.421	1.79E-253	1.34E+00	spermatogonia	TMEM99
GSTK1	0	0.798791576	0.682	0.333	0	2.048048048	spermatid	GSTK1
KLF102	2.97E-147	0.798681517	0.507	0.235	1.82E-142	2.16E+00	Leydig_cells	KLF10
LYPD4	0	0.798670801	0.972	0.462	0	2.103896104	spermatocyte	LYPD4
MTF2	0	0.798633276	0.575	0.13	0	4.423076923	spermatogonia	MTF2
KIF20B	0	0.798553925	0.595	0.219	0	2.716894977	spermatogonia	KIF20B
PIWIL2	0	0.798501804	0.53	0.127	0	4.173228346	spermatogonia	PIWIL2
HCFC1R1	0	0.798234593	0.502	0.14	0	3.585714286	PTM_cells	HCFC1R1
SUN3	0	0.797889895	0.606	0.322	0	1.881987578	spermatid	SUN3
MTCH11	8.33E-120	0.797697885	0.39	0.198	5.11E-115	1.97E+00	Sertoli_cells	MTCH1
IER32	3.52E-143	0.797630964	0.336	0.1	2.16E-138	3.36E+00	Leydig_cells	IER3
WT1	0	0.797439723	0.286	0.016	0	17.875	Sertoli_cells	WT1
FAM220A	0	0.797315265	0.666	0.374	0	1.780748663	spermatid	FAM220A
SLC6A16	0	0.797209339	0.924	0.303	0	3.04950495	spermatocyte	SLC6A16
TRBC1	5.24E-61	0.797168436	0.184	0.004	3.22E-56	4.60E+01	T_cells	TRBC1
FBXO211	2.30E-109	0.79711222	0.375	0.197	1.41E-104	1.90E+00	Sertoli_cells	FBXO21
C5orf58	1.71E-148	0.796865012	0.254	0.133	1.05E-143	1.91E+00	spermatogonia	C5orf58
RPL38	6.63E-116	0.796804206	0.96	0.923	4.07E-111	1.04E+00	VSM_cells	RPL3
BMPR2	3.51E-140	0.796786598	0.481	0.106	2.15E-135	4.54E+00	endotheliocyte	BMPR2
CDKN3	0	0.796593576	0.984	0.634	0	1.552050473	spermatocyte	CDKN3
AMN1	0	0.796108549	0.915	0.343	0	2.667638484	spermatocyte	AMN1
MT-CO13	1.01E-220	0.795928933	0.791	0.436	6.18E-216	1.81E+00	PTM_cells	MT-CO1
RPS174	5.08E-218	0.795874524	0.812	0.457	3.12E-213	1.78E+00	PTM_cells	RPS17
PFN13	1.57E-86	0.795796228	0.725	0.404	9.64E-82	1.79E+00	VSM_cells	PFN1
CITED21	0	0.795700805	0.379	0.056	0	6.767857143	Leydig_cells	CITED2
COL1A22	1.04E-157	0.795617329	0.402	0.168	6.37E-153	2.39E+00	Sertoli_cells	COL1A2
PSENN	0	0.795591652	0.956	0.391	0	2.445012788	spermatocyte	PSENN
FOSL21	7.02E-83	0.795504176	0.3	0.052	4.30E-78	5.77E+00	macrophages	FOSL2
HLA-C2	1.36E-190	0.79502727	0.473	0.165	8.34E-186	2.87E+00	Leydig_cells	HLA-C
LCP2	0	0.794368309	0.263	0.009	0	29.22222222	macrophages	LCP2
HLA-DPA1	0	0.793741209	0.514	0.02	0	25.7	endotheliocyte	HLA-DPA1
AC005754.7	0	0.79358357	0.868	0.273	0	3.179487179	spermatocyte	AC005754.7
S100A103	0.002599307	0.793568031	0.553	0.44	1	1.256818182	T_cells	S100A10
RPS3A4	7.56E-11	0.793458674	0.921	0.898	4.64E-06	1.03E+00	T_cells	RPS3A
HNRNPM	0	0.793300282	0.722	0.341	0	2.117302053	spermatogonia	HNRNPM
LAT	1.04E-86	0.793237199	0.289	0.008	6.38E-82	3.61E+01	T_cells	LAT
CDC14A	0	0.79314855	0.564	0.185	0	3.048648649	spermatid	CDC14A
LITAF	7.53E-48	0.793143014	0.316	0.089	4.62E-43	3.55E+00	macrophages	LITAF
USP25	0	0.792482988	0.607	0.289	0	2.100346021	spermatid	USP25
MAFF	1.27E-235	0.792394078	0.471	0.062	7.80E-231	7.60E+00	endotheliocyte	MAFF
CALR	0	0.792259665	0.714	0.458	0	1.558951965	spermatogonia	CALR
CLDN1	6.65E-290	0.792210368	0.232	0.009	4.08E-285	2.58E+01	macrophages	CLDN1
ABCA9	0	0.791948032	0.303	0.022	0	13.77272727	Leydig_cells	ABCA9
IGFBP62	2.67E-175	0.791505048	0.474	0.091	1.64E-170	5.21E+00	VSM_cells	IGFBP6
ACE2	0	0.791502803	0.279	0.01	0	27.9	Sertoli_cells	ACE2
SLC2A5	0	0.790958492	0.837	0.233	0	3.592274678	spermatocyte	SLC2A5

RP11-545G3.1	0	0.790936163	0.405	0.203	0	1.995073892	spermatid	RP11-545G3.1
TRIM42	0	0.790926298	0.511	0.087	0	5.873563218	spermatid	TRIM42
PPP2R2B	0	0.790893865	0.524	0.09	0	5.822222222	spermatid	PPP2R2B
RPL31	9.81E-43	0.790879041	0.933	0.838	6.02E-38	1.11E+00	endotheliocyte	RPL31
SORL1	0	0.790738363	0.372	0.048	0	7.75	Leydig_cells	SORL1
LHX9	0	0.790721506	0.335	0.028	0	11.96428571	Leydig_cells	LHX9
NFKBIZ2	4.55E-204	0.790719327	0.377	0.097	2.79E-199	3.89E+00	Leydig_cells	NFKBIZ
ADAMTS12	0	0.790507748	0.465	0.072	0	6.458333333	PTM_cells	ADAMTS1
C12orf571	4.84E-188	0.790445171	0.697	0.448	2.97E-183	1.56E+00	PTM_cells	C12orf57
SPI1	4.98E-89	0.790369075	0.327	0.06	3.05E-84	5.45E+00	macrophages	SPI1
CD302	2.21E-18	0.790315029	0.38	0.235	1.36E-13	1.62E+00	macrophages	CD302
OAZ11	6.76E-107	0.790305088	0.669	0.614	4.15E-102	1.09E+00	Sertoli_cells	OAZ1
OSCP1	0	0.789844951	0.949	0.398	0	2.384422111	spermatocyte	OSCP1
PAGE1	0	0.789814153	0.339	0.015	0	22.6	spermatogonia	PAGE1
HBEGF	0	0.789752411	0.414	0.037	0	11.18918919	endotheliocyte	HBEGF
CEBPB1	1.75E-279	0.789710306	0.478	0.063	1.08E-274	7.59E+00	VSM_cells	CEBPB
RPL262	1.10E-181	0.789623966	0.892	0.749	6.73E-177	1.19E+00	Leydig_cells	RPL26
CIRBP3	1.24E-234	0.789576066	0.787	0.431	7.62E-230	1.83E+00	PTM_cells	CIRBP
IER5L2	0.001316623	0.789498528	0.184	0.064	1	2.875	T_cells	IER5L
RCS1	0	0.789397167	0.253	0.008	0	31.625	macrophages	RCS1
MT-CYB1	1.14E-62	0.789311383	0.73	0.393	6.97E-58	1.86E+00	endotheliocyte	MT-CYB
SLFNL1	0	0.789163442	0.535	0.135	0	3.962962963	spermatid	SLFNL1
SLA1	6.85E-154	0.7891608	0.263	0.003	4.20E-149	8.77E+01	T_cells	SLA
WBP51	0	0.789153783	0.506	0.078	0	6.487179487	PTM_cells	WBP5
VAPA	0	0.788878781	0.661	0.269	0	2.457249071	spermatogonia	VAPA
SLPI	0	0.788451621	0.439	0.106	0	4.141509434	spermatid	SLPI
BHLHE401	1.43E-84	0.788213262	0.296	0.05	8.79E-80	5.92E+00	macrophages	BHLHE40
LINC00643	0	0.788110399	0.676	0.252	0	2.682539683	spermatocyte	LINC00643
CYB5A	5.40E-276	0.787816304	0.489	0.132	3.31E-271	3.70E+00	Leydig_cells	CYB5A
TMEM147	0	0.787631145	0.63	0.352	0	1.789772727	spermatogonia	TMEM147
MT-CO31	9.27E-219	0.787165628	0.794	0.453	5.69E-214	1.75E+00	PTM_cells	MT-CO3
CEP85L	0	0.786927103	0.707	0.47	0	1.504255319	spermatid	CEP85L
EMILIN1	0	0.786916824	0.425	0.018	0	23.61111111	PTM_cells	EMILIN1
LINC00301	0	0.786762166	0.916	0.431	0	2.125290023	spermatocyte	LINC00301
RNF38	0	0.786718382	0.707	0.508	0	1.391732283	spermatid	RNF38
SLC25A31	0	0.786515076	0.469	0.205	0	2.287804878	spermatogonia	SLC25A31
GABARAPL2	0	0.786422563	0.696	0.394	0	1.766497462	spermatogonia	GABARAPL2
RPL81	5.86E-225	0.78635965	0.935	0.852	3.60E-220	1.10E+00	Leydig_cells	RPL8
RPL72	2.44E-99	0.786116018	0.888	0.795	1.50E-94	1.12E+00	VSM_cells	RPL7
RPL27A2	2.32E-217	0.785614658	0.903	0.782	1.42E-212	1.15E+00	Leydig_cells	RPL27A
CFAP53	0	0.78545429	0.982	0.514	0	1.910505837	spermatocyte	CFAP53
NGFR	0	0.785346827	0.275	0.017	0	16.17647059	Leydig_cells	NGFR
UBQLNL	0	0.78529717	0.512	0.105	0	4.876190476	spermatid	UBQLNL
SRSF5	1.62E-75	0.785247979	0.844	0.598	9.91E-71	1.41E+00	endotheliocyte	SRSF5
CD99	3.08E-150	0.785141545	0.707	0.189	1.89E-145	3.74E+00	endotheliocyte	CD99
RPL365	2.29E-07	0.784840341	0.842	0.702	0.014045804	1.199430199	T_cells	RPL36
RAB341	0	0.784656359	0.49	0.042	0	11.66666667	PTM_cells	RAB34
HPCAL1	3.26E-85	0.784559282	0.361	0.214	2.00E-80	1.69E+00	Sertoli_cells	HPCAL1
PFKP	0	0.784553278	0.985	0.498	0	1.977911647	spermatocyte	PFKP
PEG31	7.33E-177	0.784444374	0.563	0.262	4.50E-172	2.15E+00	PTM_cells	PEG3
TCF3	0	0.7843766	0.317	0.074	0	4.283783784	spermatogonia	TCF3
HDAC11	0	0.784266148	0.619	0.276	0	2.242753623	spermatid	HDAC11
AHSA1	1.11E-54	0.783983083	0.467	0.409	6.84E-50	1.14E+00	Sertoli_cells	AHSA1
CIR1	0	0.783901929	0.917	0.358	0	2.561452514	spermatocyte	CIR1
ECE1	3.26E-226	0.783679487	0.506	0.074	2.00E-221	6.84E+00	endotheliocyte	ECE1
IFITM1	0	0.78367503	0.454	0.021	0	21.61904762	endotheliocyte	IFITM1
RPL274	7.89E-94	0.783667819	0.852	0.659	4.84E-89	1.29E+00	VSM_cells	RPL27
CYB5R3	1.43E-189	0.783653443	0.548	0.217	8.75E-185	2.53E+00	Leydig_cells	CYB5R3
PDXK	0	0.783560607	0.995	0.725	0	1.372413793	spermatocyte	PDXK
RGS11	6.44E-30	0.783382489	0.2	0.013	3.95E-25	1.54E+01	mastocyte	RGS1
JMJD1C2	2.87E-19	0.782828583	0.515	0.369	1.76E-14	1.40E+00	macrophages	JMJD1C
RPS184	7.80E-99	0.782823472	0.928	0.852	4.78E-94	1.09E+00	VSM_cells	RPS18
MPST	0	0.782156037	0.89	0.302	0	2.947019868	spermatocyte	MPST
DST	2.05E-66	0.781872655	0.619	0.342	1.26E-61	1.81E+00	VSM_cells	DST
LRRCC1	0	0.781689296	0.95	0.372	0	2.553763441	spermatocyte	LRRCC1
12-Sep	0	0.781270542	0.949	0.353	0	2.688385269	spermatocyte	12-Sep
ESPN	1.39E-78	0.781185282	0.354	0.215	8.51E-74	1.65E+00	Sertoli_cells	ESPN
VSIG1	0	0.78091698	0.271	0.023	0	11.7826087	Sertoli_cells	VSIG1
KLF93	9.48E-114	0.780603699	0.503	0.153	5.82E-109	3.29E+00	VSM_cells	KLF9
BOLL	0	0.780509508	0.925	0.347	0	2.665706052	spermatocyte	BOLL
EPCAM	0	0.780500158	0.461	0.09	0	5.122222222	spermatogonia	EPCAM
GIMAP41	1.04E-35	0.780371688	0.237	0.012	6.38E-31	1.98E+01	T_cells	GIMAP4
THBS1	0	0.7801954	0.241	0.011	0	21.90909091	VSM_cells	THBS1
ATRX2	0	0.779961879	0.541	0.13	0	4.161538462	PTM_cells	ATRX
RBM25	0	0.779877466	0.729	0.435	0	1.675862069	spermatogonia	RBM25

YTHDF2	0	0.779827914	0.598	0.185	0	3.232432432	spermatogonia	YTHDF2
HPGDS	1.14E-49	0.779695455	0.1	0.002	6.99E-45	5.00E+01	mastocyte	HPGDS
NXF3	0	0.779576132	0.266	0.009	0	29.55555556	Sertoli_cells	NXF3
ATP5E	0	0.779520986	0.825	0.627	0	1.315789474	spermatogonia	ATP5E
FLJ27354	0	0.778996946	0.491	0.141	0	3.482269504	spermatid	FLJ27354
ATG9A	0	0.778994404	0.885	0.276	0	3.206521739	spermatocyte	ATG9A
TEX43	0	0.778669287	0.457	0.127	0	3.598425197	spermatid	TEX43
07-Sep	5.71E-80	0.778573474	0.846	0.654	3.50E-75	1.29E+00	VSM_cells	07-Sep
CD47	0	0.778101276	0.834	0.233	0	3.579399142	spermatocyte	CD47
RBM17	0	0.778002701	0.7	0.392	0	1.785714286	spermatogonia	RBM17
SYNE23	2.64E-07	0.77792362	0.395	0.135	0.016195589	2.925925926	T_cells	SYNE2
NUPR1	0	0.777878098	0.562	0.12	0	4.683333333	Leydig_cells	NUPR1
C3orf30	0	0.777791644	0.571	0.223	0	2.560538117	spermatid	C3orf30
SERPINB9	1.06E-104	0.777777164	0.253	0.03	6.51E-100	8.43E+00	macrophages	SERPINB9
AEBP12	1.43E-208	0.777477454	0.505	0.087	8.76E-204	5.80E+00	VSM_cells	AEBP1
01-Jun	2.24E-38	0.7774439	0.653	0.368	1.38E-33	1.77E+00	macrophages	JUN
KIAA0355	8.86E-151	0.777259487	0.506	0.112	5.43E-146	4.52E+00	endotheliocyte	KIAA0355
PTGIS	2.30E-252	0.777248539	0.38	0.038	1.41E-247	1.00E+01	endotheliocyte	PTGIS
FKBP2	0	0.777231105	0.647	0.399	0	1.621553885	spermatogonia	FKBP2
ALS2CR11	0	0.777151678	0.961	0.382	0	2.515706806	spermatocyte	ALS2CR11
RPL7A2	7.85E-100	0.777130911	0.937	0.878	4.82E-95	1.07E+00	VSM_cells	RPL7A
S100A16	0	0.777005024	0.551	0.061	0	9.032786885	endotheliocyte	S100A16
VRK1	0	0.776950003	0.566	0.219	0	2.584474886	spermatogonia	VRK1
FAM133A	3.10E-141	0.776905483	0.272	0.094	1.90E-136	2.89E+00	Sertoli_cells	FAM133A
CA2	0	0.776761638	0.474	0.097	0	4.886597938	spermatid	CA2
PLCB4	0	0.776598785	0.409	0.021	0	19.47619048	endotheliocyte	PLCB4
CCT3	0	0.776397474	0.791	0.517	0	1.529980658	spermatogonia	CCT3
CPM	2.44E-135	0.776142731	0.376	0.076	1.50E-130	4.95E+00	VSM_cells	CPM
KIAA1211	0	0.776113315	0.489	0.121	0	4.041322314	spermatid	KIAA1211
XAF11	1.18E-70	0.775852117	0.259	0.045	7.23E-66	5.76E+00	macrophages	XAF1
RPLP01	5.42E-88	0.775654602	0.901	0.739	3.33E-83	1.22E+00	endotheliocyte	RPLP0
USMG5	1.61E-17	0.775620399	0.501	0.558	9.85E-13	8.98E-01	Sertoli_cells	USMG5
TGM2	0	0.775576585	0.328	0.022	0	14.90909091	endotheliocyte	TGM2
CCL31	1.24E-17	0.774753077	0.211	0.019	7.59E-13	1.11E+01	T_cells	CCL3
SYCE3	0	0.774559661	0.901	0.38	0	2.371052632	spermatocyte	SYCE3
RB1CC1	0	0.774351617	0.69	0.453	0	1.523178808	spermatogonia	RB1CC1
FAM24A	0	0.77420314	0.47	0.114	0	4.122807018	spermatocyte	FAM24A
COL6A22	4.59E-195	0.773932177	0.573	0.117	2.81E-190	4.90E+00	VSM_cells	COL6A2
C11orf88	0	0.773572172	0.812	0.217	0	3.741935484	spermatocyte	C11orf88
CHSY1	0	0.77354931	0.369	0.06	0	6.15	Leydig_cells	CHSY1
PAGE5	0	0.773484376	0.374	0.09	0	4.155555556	spermatogonia	PAGE5
RPS112	4.58E-244	0.773437714	0.943	0.817	2.81E-239	1.15E+00	Leydig_cells	RPS11
RBM393	8.18E-05	0.773399341	0.632	0.479	1	1.319415449	T_cells	RBM39
PPIA7	2.94E-05	0.77317484	0.737	0.627	1	1.175438596	T_cells	PPIA
MT.ND4L1	1.86E-30	0.773072861	0.401	0.169	1.14E-25	2.37E+00	macrophages	MT.ND4L
CH17-140K24.2	0	0.772721818	0.562	0.21	0	2.676190476	spermatocyte	CH17-140K24.2
RPS94	1.28E-94	0.772693186	0.907	0.837	7.86E-90	1.08E+00	VSM_cells	RPS9
SEC621	1.03E-156	0.772689415	0.68	0.424	6.35E-152	1.60E+00	Leydig_cells	SEC62
LTBP2	0	0.772630065	0.426	0.022	0	19.36363636	PTM_cells	LTBP2
SPZ1	0	0.772603911	0.596	0.207	0	2.879227053	spermatid	SPZ1
RPS15A2	2.11E-223	0.772583396	0.896	0.78	1.30E-218	1.15E+00	PTM_cells	RPS15A
NCOA7	1.82E-217	0.772464641	0.414	0.053	1.12E-212	7.81E+00	endotheliocyte	NCOA7
RPS15A1	1.51E-189	0.772344232	0.912	0.78	9.29E-185	1.17E+00	Leydig_cells	RPS15A
APLNR	0	0.772324567	0.29	0.001	0	290	endotheliocyte	APLNR
MT-ND13	5.07E-223	0.772170017	0.773	0.392	3.11E-218	1.97E+00	PTM_cells	MT-ND1
PLAT	1.65E-140	0.772160952	0.233	0.025	1.01E-135	9.32E+00	endotheliocyte	PLAT
RPS284	9.94E-126	0.772126176	0.711	0.604	6.10E-121	1.18E+00	Sertoli_cells	RPS28
NFIB1	0	0.772108744	0.395	0.062	0	6.370967742	Leydig_cells	NFIB
TNFAIP81	4.17E-20	0.771953355	0.316	0.038	2.56E-15	8.32E+00	T_cells	TNFAIP8
GGN	0	0.771885208	0.958	0.37	0	2.589189189	spermatocyte	GGN
FTH14	2.15E-93	0.771856872	0.903	0.72	1.32E-88	1.25E+00	VSM_cells	FTH1
DPCD	0	0.771811601	0.957	0.488	0	1.961065574	spermatocyte	DPCD
ART3	0	0.771808078	0.541	0.335	0	1.614925373	spermatogonia	ART3
PRDX5	0	0.771544297	0.728	0.494	0	1.473684211	spermatogonia	PRDX5
AQP5	0	0.771495093	0.992	0.637	0	1.557299843	spermatocyte	AQP5
PODN1	0	0.771203517	0.457	0.029	0	15.75862069	PTM_cells	PODN
TBX18-AS1	0	0.770976012	0.387	0.2	0	1.935	spermatid	TBX18-AS1
RPS143	2.90E-241	0.770948435	0.923	0.827	1.78E-236	1.12E+00	PTM_cells	RPS14
MT.ND43	6.53E-06	0.770921647	0.349	0.376	0.400469526	0.928191489	Sertoli_cells	MT.ND4
IFITM34	1.08E-190	0.770556616	0.751	0.188	6.65E-186	3.99E+00	VSM_cells	IFITM3
RPS23P81	4.40E-21	0.770471852	0.293	0.221	2.70E-16	1.33E+00	Leydig_cells	RPS23P8
RBPJ1	2.06E-17	0.770449942	0.519	0.395	1.26E-12	1.31E+00	macrophages	RBPJ
NAT8L	0	0.770213668	0.271	0.011	0	24.63636364	Sertoli_cells	NAT8L
DNMT1	0	0.770211295	0.583	0.268	0	2.175373134	spermatogonia	DNMT1
PNRC13	5.26E-220	0.770203122	0.704	0.383	3.23E-215	1.84E+00	PTM_cells	PNRC1

KIF2C	0	0.770028326	0.704	0.463	0	1.520518359	spermatid	KIF2C
HSPE1	0	0.770015152	0.566	0.216	0	2.62037037	spermatogonia	HSPE1
PRM3	0	0.769970811	0.549	0.213	0	2.577464789	spermatid	PRM3
ACTRT3	0	0.769918747	0.648	0.366	0	1.770491803	spermatid	ACTRT3
RP6.91H8.2	0	0.769881806	0.354	0.119	0	2.974789916	spermatocyte	RP6.91H8.2
MT-ND35	1.43E-20	0.769838972	0.431	0.372	8.78E-16	1.16E+00	Sertoli_cells	MT-ND3
SEMA3D	3.14E-216	0.769823232	0.411	0.112	1.92E-211	3.67E+00	Leydig_cells	SEMA3D
PDE7A	0.000735354	0.76974632	0.263	0.115	1	2.286956522	T_cells	PDE7A
USP44	0	0.769308662	0.933	0.308	0	3.029220779	spermatocyte	USP44
ADAM28	0	0.769079839	0.269	0.007	0	38.42857143	macrophages	ADAM28
FSTL11	0	0.768984311	0.504	0.062	0	8.129032258	PTM_cells	FSTL1
PPP1CA	1.59E-07	0.76897123	0.342	0.102	0.009740752	3.352941176	T_cells	PPP1CA
FYN	4.04E-07	0.768760864	0.263	0.069	0.024776062	3.811594203	T_cells	FYN
CSTB	2.21E-257	0.768535635	0.534	0.16	1.36E-252	3.34E+00	Leydig_cells	CSTB
SMARCA5	0	0.768490301	0.675	0.366	0	1.844262295	spermatogonia	SMARCA5
DDB1	0	0.768398306	0.594	0.182	0	3.263736264	spermatogonia	DDB1
B4GALT11	9.70E-82	0.768107262	0.324	0.177	5.95E-77	1.83E+00	Sertoli_cells	B4GALT1
JAML	0	0.767992697	0.246	0.008	0	30.75	macrophages	JAML
ISLR	4.96E-208	0.76788729	0.476	0.069	3.04E-203	6.90E+00	endotheliocyte	ISLR
C6orf48	0	0.767839622	0.956	0.509	0	1.878192534	spermatocyte	C6orf48
ANKLE2	0	0.767728335	0.923	0.336	0	2.74702381	spermatocyte	ANKLE2
FNBP1	9.62E-07	0.767501994	0.342	0.116	0.059009181	2.948275862	T_cells	FNBP1
ABI3BP1	0	0.767373732	0.358	0.042	0	8.523809524	Leydig_cells	ABI3BP
MORF4L1	0	0.767218603	0.995	0.781	0	1.274007682	spermatocyte	MORF4L1
DUSP14	1.44E-130	0.767027131	0.603	0.179	8.85E-126	3.37E+00	VSM_cells	DUSP1
RP11-322N21.2	0	0.766608579	0.376	0.189	0	1.989417989	spermatid	RP11-322N21.2
FAM127A	0	0.766511531	0.408	0.066	0	6.181818182	Leydig_cells	FAM127A
ECE1	1.78E-276	0.76633047	0.355	0.068	1.09E-271	5.22E+00	Leydig_cells	ECE1
ATRX4	0.000126673	0.766207336	0.342	0.15	1	2.28	T_cells	ATRX
ITGA6	5.46E-79	0.766206465	0.489	0.173	3.35E-74	2.83E+00	endotheliocyte	ITGA6
RPS292	9.91E-264	0.766176124	0.868	0.888	6.08E-259	9.77E-01	Sertoli_cells	RPS29
SUPT16H	0	0.765966376	0.676	0.37	0	1.827027027	spermatogonia	SUPT16H
COLEC12	0	0.765915536	0.322	0.034	0	9.470588235	Leydig_cells	COLEC12
ZNF689	0	0.765890717	0.78	0.222	0	3.513513514	spermatocyte	ZNF689
ZNF677	0	0.765809137	0.629	0.42	0	1.497619048	spermatid	ZNF677
HBA2	8.06E-05	0.765807524	0.048	0.061	1	0.786885246	spermatid	HBA2
MT.ND23	5.10E-05	0.765358541	0.349	0.388	1	0.899484536	Sertoli_cells	MT.ND2
TGFB111	0	0.765345892	0.487	0.038	0	12.81578947	PTM_cells	TGFB111
COX5B	8.02E-59	0.76494934	0.579	0.576	4.92E-54	1.01E+00	Sertoli_cells	COX5B
ALDH2	4.47E-247	0.764930526	0.294	0.07	2.74E-242	4.20E+00	Sertoli_cells	ALDH2
HNRNPK	0	0.764792169	0.778	0.49	0	1.587755102	spermatogonia	HNRNPK
NDUFA8	0	0.764760892	0.963	0.503	0	1.914512922	spermatocyte	NDUFA8
CMA1	2.41E-301	0.7645633	0.16	0.001	1.48E-296	1.60E+02	mastocyte	CMA1
CRTAP3	9.29E-201	0.764558069	0.526	0.102	5.70E-196	5.16E+00	VSM_cells	CRTAP
GALNT3	0	0.764298913	0.818	0.159	0	5.144654088	spermatocyte	GALNT3
CT62	0	0.764148258	0.881	0.272	0	3.238970588	spermatocyte	CT62
HNRNPA13	2.29E-169	0.7639435	0.771	0.597	1.41E-164	1.29E+00	PTM_cells	HNRNPA1
HLA.DQA11	0.008439984	0.763915685	0.053	0.01	1	5.3	T_cells	HLA.DQA1
PSME15	0.000152273	0.763902396	0.263	0.098	1	2.683673469	T_cells	PSME1
KLF21	2.59E-45	0.763720359	0.458	0.166	1.59E-40	2.76E+00	macrophages	KLF2
AES3	3.00E-07	0.763716508	0.421	0.151	0.018426338	2.78807947	T_cells	AES
ARHGAP18	3.51E-23	0.76362035	0.296	0.131	2.15E-18	2.26E+00	macrophages	ARHGAP18
HEXIM1	7.81E-36	0.76353965	0.31	0.103	4.79E-31	3.01E+00	macrophages	HEXIM1
ARL6IP51	9.96E-27	0.763525547	0.407	0.203	6.11E-22	2.00E+00	macrophages	ARL6IP5
CD9	5.48E-57	0.763428513	0.315	0.092	3.36E-52	3.42E+00	endotheliocyte	CD9
CD96	2.58E-111	0.763382844	0.263	0.005	1.58E-106	5.26E+01	T_cells	CD96
GALM	0	0.763374556	0.446	0.021	0	21.23809524	PTM_cells	GALM
LRRC34	0	0.763261931	0.8	0.193	0	4.14507772	spermatocyte	LRRC34
ARL4A	0	0.763125345	0.99	0.698	0	1.418338109	spermatocyte	ARL4A
PSMB91	6.85E-11	0.763087272	0.237	0.038	4.20E-06	6.24E+00	T_cells	PSMB9
TACC14	2.03E-117	0.762644587	0.605	0.204	1.25E-112	2.97E+00	VSM_cells	TACC1
FAM173A	0	0.762595866	0.876	0.352	0	2.488636364	spermatocyte	FAM173A
RPS263	7.94E-155	0.762588232	0.735	0.528	4.87E-150	1.39E+00	PTM_cells	RPS26
ITGAM	0	0.762576782	0.249	0.004	0	62.25	macrophages	ITGAM
GATA3	6.38E-147	0.762545632	0.289	0.004	3.91E-142	7.23E+01	T_cells	GATA3
TXN2	7.48E-259	0.762137437	0.616	0.246	4.59E-254	2.50E+00	PTM_cells	TXN
SH3KBP1	2.12E-78	0.762017485	0.3	0.054	1.30E-73	5.56E+00	macrophages	SH3KBP1
RPL23A2	1.85E-206	0.761642771	0.879	0.73	1.14E-201	1.20E+00	PTM_cells	RPL23A
SAYS1	0	0.76164217	0.919	0.367	0	2.504087193	spermatocyte	SAYS1
TCF41	1.41E-115	0.761526358	0.553	0.325	8.67E-111	1.70E+00	Leydig_cells	TCF4
MT1M	0	0.761410821	0.407	0.031	0	13.12903226	endotheliocyte	MT1M
SLC44A2	1.31E-45	0.761044018	0.352	0.26	8.01E-41	1.35E+00	Sertoli_cells	SLC44A2
IQGAP13	1.73E-06	0.761019824	0.421	0.174	0.106170491	2.41954023	T_cells	IQGAP1
RPL273	5.04E-201	0.760833821	0.826	0.654	3.09E-196	1.26E+00	PTM_cells	RPL27
CYTH4	0	0.760630859	0.236	0.002	0	118	macrophages	CYTH4

GSTM3	0	0.760506157	0.996	0.823	0	1.210206561	spermatocyte	GSTM3
IFT57	0	0.760347544	0.865	0.7	0	1.235714286	spermatid	IFT57
FAU	5.03E-97	0.760331971	0.933	0.836	3.08E-92	1.12E+00	endotheliocyte	FAU
RPL294	3.27E-09	0.760326875	0.974	0.848	0.000200793	1.148584906	T_cells	RPL29
TSPAN1	0	0.760268555	0.501	0.08	0	6.2625	spermatid	TSPAN1
IFITM24	1.05E-138	0.760034956	0.577	0.158	6.47E-134	3.65E+00	VSM_cells	IFITM2
AP2S1	1.68E-28	0.759707844	0.434	0.43	1.03E-23	1.01E+00	Sertoli_cells	AP2S1
ATP5C1	2.90E-29	0.759679269	0.366	0.318	1.78E-24	1.15E+00	Sertoli_cells	ATP5C1
ANKRD44	1.42E-07	0.759667329	0.263	0.066	0.008718628	3.984848485	T_cells	ANKRD44
EZR2	3.36E-86	0.759579888	0.393	0.239	2.06E-81	1.64E+00	Sertoli_cells	EZR
EEF1D4	2.95E-05	0.759516267	0.737	0.63	1	1.16984127	T_cells	EEF1D
C1orf194	0	0.759000749	0.984	0.636	0	1.547169811	spermatocyte	C1orf194
SEPW1	1.25E-178	0.758961736	0.751	0.523	7.70E-174	1.44E+00	PTM_cells	SEPW1
CLIC12	5.70E-139	0.7589382	0.511	0.255	3.50E-134	2.00E+00	Leydig_cells	CLIC1
OVOL1	0	0.758804266	0.827	0.23	0	3.595652174	spermatocyte	OVOL1
PITHD1	0	0.758666359	0.614	0.211	0	2.909952607	spermatogonia	PITHD1
ACTB	1.59E-101	0.758601511	0.918	0.582	9.76E-97	1.58E+00	endotheliocyte	ACTB
CYTIP	8.70E-240	0.758419726	0.246	0.012	5.34E-235	2.05E+01	macrophages	CYTIP
CD8A	4.21E-102	0.758287921	0.211	0.003	2.58E-97	7.03E+01	T_cells	CD8A
CHCHD2	0	0.758232918	0.838	0.599	0	1.398998331	spermatogonia	CHCHD2
MT.CYB2	2.58E-15	0.758099566	0.378	0.333	1.58E-10	1.14E+00	Leydig_cells	MT.CYB
RPL23AP421	4.64E-21	0.758080188	0.311	0.239	2.85E-16	1.30E+00	Leydig_cells	RPL23AP42
PEAR1	0	0.757469093	0.334	0.035	0	9.542857143	Leydig_cells	PEAR1
FLNB	5.13E-194	0.757305674	0.459	0.073	3.15E-189	6.29E+00	endotheliocyte	FLNB
TBC1D21	0	0.75714488	0.639	0.26	0	2.457692308	spermatid	TBC1D21
DYNLL2	0	0.757119601	0.733	0.561	0	1.306595365	spermatid	DYNLL2
NDN1	0	0.756873389	0.549	0.13	0	4.223076923	PTM_cells	NDN
WHSC1L1	0.002238302	0.756846748	0.447	0.325	1	1.375384615	T_cells	WHSC1L1
PLIN2	1.84E-20	0.756619983	0.226	0.084	1.13E-15	2.69E+00	macrophages	PLIN2
POLR2J	0	0.756564244	0.597	0.295	0	2.023728814	spermatogonia	POLR2J
TRMT6	0	0.756430991	0.486	0.051	0	9.529411765	spermatogonia	TRMT6
PCSK1N	0	0.756367161	0.302	0.06	0	5.033333333	spermatogonia	PCSK1N
BCCIP	0	0.756067341	0.596	0.195	0	3.056410256	spermatogonia	BCCIP
RPL92	1.33E-300	0.755839396	0.943	0.871	8.16E-296	1.08E+00	PTM_cells	RPL9
C11orf74	0	0.75574586	0.92	0.386	0	2.383419689	spermatocyte	C11orf74
IFI27L21	1.02E-142	0.755502745	0.254	0.08	6.25E-138	3.18E+00	Sertoli_cells	IFI27L2
CIRBP4	4.43E-86	0.755424638	0.795	0.442	2.72E-81	1.80E+00	VSM_cells	CIRBP
PSIP1	0	0.755195844	0.68	0.465	0	1.462365591	spermatogonia	PSIP1
CHD5	0	0.754974141	0.59	0.252	0	2.341269841	spermatid	CHD5
CELF2	4.08E-18	0.754745846	0.424	0.27	2.50E-13	1.57E+00	macrophages	CELF2
RPL13AP52	7.72E-58	0.754601381	0.231	0.098	4.74E-53	2.36E+00	Leydig_cells	RPL13AP5
LGALS33	9.08E-121	0.754252568	0.611	0.202	5.57E-116	3.02E+00	VSM_cells	LGALS3
MFGE8	0	0.754155425	0.42	0.079	0	5.316455696	Leydig_cells	MFGE8
SPARC3	6.70E-136	0.754093477	0.719	0.241	4.11E-131	2.98E+00	VSM_cells	SPARC
DPH7	0	0.753922563	0.295	0.045	0	6.555555556	spermatogonia	DPH7
ZCCHC24	0	0.75380006	0.35	0.056	0	6.25	Leydig_cells	ZCCHC24
SLC25A61	4.09E-40	0.75379623	0.468	0.194	2.51E-35	2.41E+00	macrophages	SLC25A6
RAB311	0	0.753714902	0.5	0.075	0	6.666666667	PTM_cells	RAB31
C19orf60	1.24E-08	0.753588219	0.368	0.106	0.000757662	3.471698113	T_cells	C19orf60
PDLIM5	1.52E-93	0.753534534	0.476	0.168	9.33E-89	2.83E+00	VSM_cells	PDLIM5
AP1S21	2.50E-57	0.75348992	0.367	0.1	1.53E-52	3.67E+00	macrophages	AP1S2
RHEB	0	0.753433978	0.546	0.27	0	2.022222222	spermatogonia	RHEB
BEX5	0	0.753337469	0.235	0.01	0	23.5	Sertoli_cells	BEX5
RPL91	1.15E-259	0.753326822	0.958	0.871	7.08E-255	1.10E+00	Leydig_cells	RPL9
MT.CO21	7.40E-30	0.753229823	0.576	0.333	4.54E-25	1.73E+00	macrophages	MT.CO2
RPL83	2.35E-104	0.753174251	0.928	0.854	1.44E-99	1.09E+00	VSM_cells	RPL8
DHX57	0	0.753129614	0.56	0.23	0	2.434782609	spermatid	DHX57
PEA15	2.02E-08	0.753073187	0.444	0.385	0.001237036	1.153246753	macrophages	PEA15
RPL272	2.39E-172	0.752920433	0.821	0.656	1.47E-167	1.25E+00	Leydig_cells	RPL27
11-Mar	0	0.75249818	0.839	0.219	0	3.831050228	spermatocyte	11-Mar
PELI1	6.67E-41	0.752385729	0.303	0.093	4.09E-36	3.26E+00	macrophages	PELI1
PTPN7	6.49E-29	0.752294971	0.263	0.019	3.98E-24	1.38E+01	T_cells	PTPN7
CPEB1	0	0.752046669	0.493	0.141	0	3.496453901	spermatogonia	CPEB1
YWHAB1	8.44E-87	0.751892964	0.737	0.347	5.18E-82	2.12E+00	endotheliocyte	YWHAB
PRKAR2A	0	0.751812355	0.708	0.544	0	1.301470588	spermatid	PRKAR2A
RPL344	4.94E-07	0.751750839	0.947	0.906	0.030284926	1.045253863	T_cells	RPL34
UBE2E3	0	0.751749705	0.572	0.221	0	2.588235294	spermatogonia	UBE2E3
FSIP2	0	0.751521185	0.9	0.331	0	2.719033233	spermatocyte	FSIP2
FOXO3	1.08E-16	0.751458037	0.286	0.143	6.64E-12	2.00E+00	macrophages	FOXO3
STAT3	6.19E-78	0.751430043	0.588	0.263	3.80E-73	2.24E+00	endotheliocyte	STAT3
CMTM61	1.06E-84	0.751116794	0.329	0.182	6.53E-80	1.81E+00	Sertoli_cells	CMTM6
ATP5A1	0	0.751056118	0.728	0.458	0	1.589519651	spermatogonia	ATP5A1
NDUFA1	1.84E-69	0.750645185	0.377	0.24	1.13E-64	1.57E+00	Sertoli_cells	NDUFA1
TSACC	0	0.750601501	0.999	0.919	0	1.087051143	spermatocyte	TSACC
RBM33	4.12E-220	0.749822748	0.595	0.212	2.53E-215	2.81E+00	Leydig_cells	RBM3

MID1IP1	0	0.749719879	0.258	0.041	0	6.292682927	Sertoli_cells	MID1IP1
SLC25A6	1.81E-132	0.749512323	0.663	0.19	1.11E-127	3.49E+00	endotheliocyte	SLC25A6
TPM43	9.03E-79	0.748582328	0.548	0.232	5.54E-74	2.36E+00	VSM_cells	TPM4
RPS210	1.87E-51	0.74848869	0.879	0.675	1.15E-46	1.30E+00	macrophages	RPS2
CLU	4.35E-67	0.748452847	0.846	0.66	2.67E-62	1.28E+00	endotheliocyte	CLU
MT-ND31	2.97E-63	0.748345249	0.722	0.37	1.82E-58	1.95E+00	endotheliocyte	MT-ND3
NFIC1	4.96E-275	0.74818513	0.616	0.229	3.04E-270	2.69E+00	PTM_cells	NFIC
CDH11	0	0.747732345	0.433	0.033	0	13.12121212	PTM_cells	CDH11
RAB11FIP4	0	0.747539441	0.598	0.266	0	2.248120301	spermatid	RAB11FIP4
ADAP2	1.69E-227	0.747532123	0.226	0.011	1.04E-222	2.05E+01	macrophages	ADAP2
MIR7515HG	0	0.747462202	0.545	0.215	0	2.534883721	spermatid	MIR7515HG
FTH1	4.45E-91	0.747456401	0.943	0.72	2.73E-86	1.31E+00	endotheliocyte	FTH1
RIBC2	0	0.747266111	0.898	0.298	0	3.013422819	spermatocyte	RIBC2
WFDC3	0	0.747007566	0.807	0.272	0	2.966911765	spermatocyte	WFDC3
CXCL12	7.26E-75	0.746822065	0.194	0.031	4.46E-70	6.26E+00	endotheliocyte	CXCL12
ALDH6A1	1.30E-168	0.746743149	0.299	0.101	7.97E-164	2.96E+00	Sertoli_cells	ALDH6A1
S100A13	1.26E-190	0.746712291	0.563	0.107	7.74E-186	5.26E+00	endotheliocyte	S100A13
MT.ATP62	2.17E-13	0.746690872	0.381	0.346	1.33E-08	1.10E+00	Leydig_cells	MT.ATP6
PSME12	0	0.746628185	0.421	0.084	0	5.011904762	Leydig_cells	PSME1
RPS27A2	1.35E-203	0.746553949	0.934	0.858	8.30E-199	1.09E+00	Leydig_cells	RPS27A
METTL23	0	0.746515017	0.855	0.332	0	2.575301205	spermatocyte	METTL23
CASP8	1.69E-10	0.746397587	0.184	0.025	1.04E-05	7.36E+00	T_cells	CASP8
LSM10	6.01E-145	0.74621673	0.258	0.083	3.69E-140	3.11E+00	Sertoli_cells	LSM10
SERPINB1	2.33E-254	0.746130582	0.437	0.05	1.43E-249	8.74E+00	endotheliocyte	SERPINB1
HSD17B111	2.45E-10	0.746129767	0.237	0.041	1.50E-05	5.78E+00	T_cells	HSD17B11
CIRBP2	3.18E-184	0.746120584	0.781	0.434	1.95E-179	1.80E+00	Leydig_cells	CIRBP
NUPR12	6.91E-196	0.746037512	0.617	0.13	4.24E-191	4.75E+00	VSM_cells	NUPR1
EMP33	0	0.745903941	0.563	0.144	0	3.909722222	PTM_cells	EMP3
VIMP	0	0.745733658	0.688	0.394	0	1.746192893	spermatogonia	VIMP
PPFIBP1	4.44E-225	0.745535537	0.414	0.051	2.72E-220	8.12E+00	endotheliocyte	PPFIBP1
RPL236	1.19E-06	0.745441678	0.816	0.703	0.072908752	1.160739687	T_cells	RPL23
PGAM2	0	0.745210629	0.952	0.436	0	2.183486239	spermatocyte	PGAM2
MLLT10	0	0.745020967	0.588	0.411	0	1.430656934	spermatogonia	MLLT10
PREX1	1.23E-63	0.74495087	0.279	0.058	7.55E-59	4.81E+00	macrophages	PREX1
ILF3	0	0.744902843	0.688	0.354	0	1.943502825	spermatogonia	ILF3
SMIM20	7.62E-62	0.744807057	0.261	0.141	4.68E-57	1.85E+00	Sertoli_cells	SMIM20
LRRC73	0	0.744749985	0.923	0.317	0	2.911671924	spermatocyte	LRRC73
GINS2	0	0.744422413	0.405	0.049	0	8.265306122	spermatogonia	GINS2
GUK1	7.38E-70	0.744318367	0.757	0.505	4.53E-65	1.50E+00	endotheliocyte	GUK1
SLC7A2	1.13E-165	0.74423491	0.431	0.084	6.94E-161	5.13E+00	VSM_cells	SLC7A2
RP11.466H18.11	3.37E-61	0.74420891	0.219	0.037	2.06E-56	5.92E+00	macrophages	RP11.466H18.1
RPL9P9	2.86E-15	0.744009025	0.384	0.245	1.76E-10	1.57E+00	macrophages	RPL9P9
RPLP11	9.80E-55	0.743976673	0.933	0.765	6.01E-50	1.22E+00	macrophages	RPLP1
SYPL1	0	0.743792368	0.976	0.593	0	1.645868465	spermatocyte	SYPL1
AKIRIN1	0	0.743760334	0.686	0.564	0	1.216312057	spermatid	AKIRIN1
SPANXB1	0	0.743753859	0.557	0.214	0	2.602803738	spermatid	SPANXB1
GRK2	1.62E-37	0.743458267	0.209	0.05	9.91E-33	4.18E+00	macrophages	GRK2
ATP1A11	6.66E-54	0.743449687	0.376	0.281	4.08E-49	1.34E+00	Sertoli_cells	ATP1A1
MFSD1	5.08E-42	0.743396254	0.293	0.087	3.12E-37	3.37E+00	macrophages	MFSD1
CITED2	5.57E-53	0.7428463	0.286	0.067	3.42E-48	4.27E+00	macrophages	CITED2
SLIT1-AS1	0	0.742504859	0.341	0.105	0	3.247619048	spermatid	SLIT1-AS1
CPED11	0	0.742395135	0.4	0.033	0	12.12121212	VSM_cells	CPED1
C1QBP	0	0.742240011	0.455	0.242	0	1.880165289	spermatogonia	C1QBP
CDK11B	0	0.742236897	0.681	0.302	0	2.254966887	spermatogonia	CDK11B
SLC38A2	8.68E-32	0.742199443	0.32	0.116	5.33E-27	2.76E+00	macrophages	SLC38A2
APP	2.23E-75	0.742158392	0.69	0.341	1.37E-70	2.02E+00	endotheliocyte	APP
LITAF2	5.60E-180	0.741715507	0.45	0.085	3.44E-175	5.29E+00	VSM_cells	LITAF
MTCH2	0	0.741571159	0.973	0.542	0	1.795202952	spermatocyte	MTCH2
RPL7A	2.82E-92	0.741564699	0.97	0.878	1.73E-87	1.10E+00	endotheliocyte	RPL7A
TCEAL32	1.22E-245	0.741562148	0.303	0.073	7.48E-241	4.15E+00	Sertoli_cells	TCEAL3
SLC25A37	0	0.740991432	0.752	0.546	0	1.377289377	spermatid	SLC25A37
YWHAH1	1.82E-151	0.740802899	0.442	0.094	1.12E-146	4.70E+00	VSM_cells	YWHAH
PKHD1	0	0.740699391	0.489	0.28	0	1.746428571	spermatid	PKHD1
TSPO3	0	0.740483546	0.518	0.071	0	7.295774648	PTM_cells	TSPO
PRDM11	1.02E-16	0.740414041	0.184	0.016	6.25E-12	1.15E+01	T_cells	PRDM1
IL18	1.42E-141	0.740383959	0.259	0.025	8.72E-137	1.04E+01	macrophages	IL18
KHDRBS1	0	0.740381153	0.656	0.32	0	2.05	spermatogonia	KHDRBS1
CHCHD10	1.04E-130	0.740308108	0.467	0.121	6.36E-126	3.86E+00	VSM_cells	CHCHD10
PDZD8	0	0.740195538	0.636	0.337	0	1.887240356	spermatid	PDZD8
ATP6V0B	0	0.740051159	0.556	0.121	0	4.595041322	spermatogonia	ATP6V0B
RPL10P33	0.004042033	0.739574585	0.158	0.056	1	2.821428571	T_cells	RPL10P3
C6orf99	0	0.739490955	0.974	0.484	0	2.012396694	spermatocyte	C6orf99
HLA.E2	5.44E-132	0.738989823	0.231	0.056	3.34E-127	4.13E+00	Leydig_cells	HLA.E
HLA-DMB	0	0.738863968	0.229	0.004	0	57.25	macrophages	HLA-DMB
COMT2	6.24E-179	0.738773252	0.299	0.092	3.83E-174	3.25E+00	Sertoli_cells	COMT

CLEC2B	3.19E-222	0.738760801	0.266	0.016	1.95E-217	1.66E+01	macrophages	CLEC2B
ECH1	2.98E-28	0.738732472	0.407	0.39	1.83E-23	1.04E+00	Sertoli_cells	ECH1
CYP1B1	3.62E-85	0.738447119	0.341	0.156	2.22E-80	2.19E+00	Leydig_cells	CYP1B1
MT-ND22	7.58E-84	0.738413712	0.606	0.405	4.65E-79	1.50E+00	Leydig_cells	MT-ND2
DDX5	4.59E-88	0.738326186	0.916	0.762	2.82E-83	1.20E+00	endotheliocyte	DDX5
ZCRB1	0	0.738148088	0.966	0.588	0	1.642857143	spermatocyte	ZCRB1
EMB1	1.07E-16	0.73814614	0.211	0.021	6.54E-12	1.00E+01	T_cells	EMB
MTRNR2L1	2.57E-179	0.737876427	0.248	0.066	1.57E-174	3.76E+00	Sertoli_cells	MTRNR2L1
VEGFB	0	0.737696837	0.444	0.037	0	12	PTM_cells	VEGFB
SLC1A5	0	0.737593149	0.746	0.155	0	4.812903226	spermatocyte	SLC1A5
RPS244	1.93E-100	0.737506871	0.945	0.885	1.18E-95	1.07E+00	VSM_cells	RPS24
VIM5	2.65E-09	0.737497396	0.789	0.452	0.000162344	1.745575221	T_cells	VIM
RPL34P182	2.14E-21	0.737418271	0.279	0.204	1.31E-16	1.37E+00	Leydig_cells	RPL34P18
LSM2	0	0.737256185	0.47	0.114	0	4.122807018	spermatogonia	LSM2
TPP1	1.41E-55	0.737111745	0.246	0.05	8.63E-51	4.92E+00	macrophages	TPP1
HLA.A2	4.18E-45	0.737000637	0.261	0.134	2.57E-40	1.95E+00	Leydig_cells	HLA.A
JAM2	6.57E-150	0.736997653	0.471	0.097	4.03E-145	4.86E+00	endotheliocyte	JAM2
TPD52L1	6.58E-294	0.736995349	0.4	0.037	4.04E-289	1.08E+01	endotheliocyte	TPD52L1
XRCC6BP1	0	0.736982484	0.555	0.188	0	2.95212766	spermatocyte	XRCC6BP1
CNN31	2.54E-116	0.736822291	0.582	0.355	1.56E-111	1.64E+00	Leydig_cells	CNN3
PQLC1	0	0.736615687	0.629	0.35	0	1.797142857	spermatid	PQLC1
CEP55	0	0.736571505	0.776	0.149	0	5.208053691	spermatocyte	CEP55
CST8	0	0.736288287	0.478	0.082	0	5.829268293	spermatid	CST8
LZTFL1	0	0.736264816	0.895	0.25	0	3.58	spermatocyte	LZTFL1
CTSL	0	0.736235824	0.546	0.202	0	2.702970297	spermatogonia	CTSL
DNAJC18	0	0.735665447	0.687	0.399	0	1.721804511	spermatid	DNAJC18
BIRC3	4.43E-70	0.735531762	0.199	0.027	2.72E-65	7.37E+00	macrophages	BIRC3
MGST3	3.25E-233	0.735523933	0.611	0.222	1.99E-228	2.75E+00	Leydig_cells	MGST3
SRSF51	5.28E-24	0.735487905	0.694	0.601	3.24E-19	1.15E+00	macrophages	SRSF5
NFKBIZ3	1.27E-125	0.73521261	0.438	0.103	7.79E-121	4.25E+00	VSM_cells	NFKBIZ
CYBRD11	0	0.735069648	0.48	0.04	0	12	PTM_cells	CYBRD1
CORO2A	0	0.734842399	0.264	0.017	0	15.52941176	Sertoli_cells	CORO2A
RP11-231D20.2	0	0.734757386	0.56	0.2	0	2.8	spermatocyte	RP11-231D20.2
APP2	2.82E-227	0.734696881	0.681	0.329	1.73E-222	2.07E+00	PTM_cells	APP
PCMTD1	3.62E-121	0.734592106	0.499	0.128	2.22E-116	3.90E+00	endotheliocyte	PCMTD1
ZNF846	0	0.734453848	0.806	0.246	0	3.276422764	spermatocyte	ZNF846
PABPC4	5.11E-296	0.734290847	0.527	0.323	3.14E-291	1.63E+00	spermatogonia	PABPC4
MT-ATP61	3.18E-55	0.733715328	0.734	0.43	1.95E-50	1.71E+00	endotheliocyte	MT-ATP6
ZNF428	7.36E-71	0.733615029	0.458	0.386	4.52E-66	1.19E+00	spermatogonia	ZNF428
PSD3	0	0.73353455	0.643	0.348	0	1.847701149	spermatid	PSD3
LINC00943	0	0.733182891	0.657	0.336	0	1.955357143	spermatid	LINC00943
RPL9P91	1.24E-15	0.73304205	0.297	0.245	7.60E-11	1.21E+00	Leydig_cells	RPL9P9
ARHGAP21	9.17E-194	0.732884087	0.456	0.153	5.62E-189	2.98E+00	Leydig_cells	ARHGAP21
THBD3	0	0.732689905	0.387	0.033	0	11.72727273	PTM_cells	THBD
PLS3	2.95E-170	0.732644822	0.449	0.075	1.81E-165	5.99E+00	endotheliocyte	PLS3
PRDX12	6.12E-125	0.732631941	0.529	0.307	3.75E-120	1.72E+00	Sertoli_cells	PRDX1
MT.ND52	1.07E-17	0.73241227	0.375	0.315	6.58E-13	1.19E+00	Leydig_cells	MT.ND5
RPLP0	9.26E-269	0.73234804	0.811	0.722	5.68E-264	1.12E+00	spermatogonia	RPLP0
LRTOMT	0	0.732238886	0.695	0.507	0	1.370808679	spermatid	LRTOMT
SSMEM1	0	0.732211867	0.852	0.28	0	3.042857143	spermatocyte	SSMEM1
HSPA1A3	9.44E-155	0.73185259	0.626	0.35	5.79E-150	1.79E+00	PTM_cells	HSPA1A
KCNAB1	4.06E-272	0.731765766	0.391	0.044	2.49E-267	8.89E+00	VSM_cells	KCNAB1
ADAM15	0	0.731713634	0.429	0.025	0	17.16	endotheliocyte	ADAM15
DUSP22	0	0.731666917	0.504	0.209	0	2.411483254	spermatogonia	DUSP22
ANKRD31	0	0.731505662	0.436	0.069	0	6.31884058	spermatogonia	ANKRD31
KRT10	0	0.731170776	0.742	0.361	0	2.055401662	spermatocyte	KRT10
OLAH	0	0.731151041	0.494	0.238	0	2.075630252	spermatid	OLAH
PPIA4	7.81E-196	0.731009137	0.826	0.617	4.79E-191	1.34E+00	PTM_cells	PPIA
CCDC73	0	0.730978551	0.37	0.032	0	11.5625	spermatogonia	CCDC73
SLC39A3	0	0.730825678	0.917	0.412	0	2.225728155	spermatocyte	SLC39A3
TRIM56	2.62E-274	0.730778452	0.437	0.046	1.60E-269	9.50E+00	endotheliocyte	TRIM56
SNAI1	1.09E-275	0.730595486	0.409	0.041	6.69E-271	9.98E+00	endotheliocyte	SNAI1
EFCAB6	0	0.730518193	0.651	0.381	0	1.708661417	spermatid	EFCAB6
MT.CO11	8.03E-28	0.730291888	0.572	0.337	4.92E-23	1.70E+00	macrophages	MT.CO1
CDHR2	0	0.730273031	0.45	0.088	0	5.113636364	spermatid	CDHR2
ARL6IP1	5.65E-279	0.730114789	0.584	0.434	3.47E-274	1.35E+00	spermatogonia	ARL6IP1
LINC-PINT	3.39E-10	0.730112915	0.184	0.026	2.08E-05	7.08E+00	T_cells	LINC-PINT
C8orf88	0	0.73007735	0.928	0.409	0	2.268948655	spermatocyte	C8orf88
RPS81	5.81E-55	0.729630239	0.919	0.775	3.57E-50	1.19E+00	macrophages	RPS8
NPM1	0	0.729527072	0.874	0.648	0	1.348765432	spermatogonia	NPM1
CD46	0	0.729456977	0.464	0.288	0	1.611111111	spermatid	CD46
PDE2A	0	0.729394497	0.345	0.014	0	24.64285714	endotheliocyte	PDE2A
EIF4A23	3.75E-199	0.729072935	0.765	0.451	2.30E-194	1.70E+00	PTM_cells	EIF4A2
MT-CYB	2.88E-160	0.72897341	0.504	0.369	1.76E-155	1.37E+00	spermatogonia	MT-CYB
FAM98A	1.64E-51	0.728929327	0.39	0.297	1.00E-46	1.31E+00	Sertoli_cells	FAM98A

PMP221	0	0.728534886	0.546	0.141	0	3.872340426	PTM_cells	PMP22
DCUN1D5	0	0.728472779	0.506	0.086	0	5.88372093	spermatogonia	DCUN1D5
GOLGA6L2	0	0.728317951	0.653	0.216	0	3.023148148	spermatocyte	GOLGA6L2
NFKBIA5	8.89E-92	0.728247375	0.379	0.203	5.46E-87	1.87E+00	Sertoli_cells	NFKBIA
GIGYF2	0	0.728237735	0.663	0.402	0	1.649253731	spermatid	GIGYF2
CIRBP	0	0.728034428	0.732	0.37	0	1.978378378	spermatogonia	CIRBP
PSMG2	0	0.728008107	0.955	0.512	0	1.865234375	spermatocyte	PSMG2
DDX52	2.48E-09	0.727958937	0.921	0.764	0.000152315	1.205497382	T_cells	DDX5
BST24	8.35E-212	0.727941926	0.575	0.106	5.12E-207	5.42E+00	VSM_cells	BST2
RP11-402G3.5	0	0.727859982	0.366	0.175	0	2.091428571	spermatid	RP11-402G3.5
OSR1	0	0.727753408	0.285	0.017	0	16.76470588	Leydig_cells	OSR1
RILPL2	0.000552478	0.727740164	0.211	0.075	1	2.813333333	T_cells	RILPL2
MAD2L1	0	0.727535894	0.459	0.044	0	10.43181818	spermatogonia	MAD2L1
MYL6	3.43E-98	0.727490198	0.913	0.661	2.10E-93	1.38E+00	endotheliocyte	MYL6
TSG101	0	0.727342471	0.662	0.339	0	1.95280236	spermatogonia	TSG101
C12orf75	2.46E-23	0.72728071	0.46	0.472	1.51E-18	9.75E-01	Sertoli_cells	C12orf75
ADGRE5	3.52E-91	0.727226114	0.195	0.021	2.16E-86	9.29E+00	macrophages	ADGRE5
TCFL5	0	0.726839801	0.772	0.229	0	3.371179039	spermatocyte	TCFL5
RUNX1	8.32E-20	0.726829806	0.266	0.118	5.10E-15	2.25E+00	macrophages	RUNX1
SUN21	3.95E-08	0.72674363	0.316	0.084	0.002422895	3.761904762	T_cells	SUN2
GOLGA4	0	0.726559161	0.755	0.571	0	1.322241681	spermatogonia	GOLGA4
PRNP	1.65E-116	0.726385214	0.465	0.228	1.02E-111	2.04E+00	Leydig_cells	PRNP
EVL	0.001832898	0.726283687	0.263	0.123	1	2.138211382	T_cells	EVL
ARL6IP5	1.28E-104	0.725999536	0.596	0.199	7.86E-100	2.99E+00	endotheliocyte	ARL6IP5
CCNI2	2.29E-219	0.725948998	0.794	0.535	1.40E-214	1.48E+00	PTM_cells	CCNI
REEP5	0	0.725855603	0.931	0.411	0	2.265206813	spermatocyte	REEP5
DAW1	0	0.72576335	0.812	0.244	0	3.327868852	spermatocyte	DAW1
CCDC34	0	0.725751926	0.973	0.49	0	1.985714286	spermatocyte	CCDC34
DPYSL2	3.34E-193	0.725526334	0.509	0.086	2.05E-188	5.92E+00	endotheliocyte	DPYSL2
TMED2	0	0.725522385	0.532	0.16	0	3.325	spermatogonia	TMED2
IER53	1.12E-104	0.725471965	0.452	0.13	6.90E-100	3.48E+00	VSM_cells	IER5
LTBP31	0	0.725363154	0.477	0.069	0	6.913043478	PTM_cells	LTBP3
SLC25A51	7.97E-124	0.72528983	0.345	0.146	4.89E-119	2.36E+00	Sertoli_cells	SLC25A5
RASSF8	0	0.725001421	0.721	0.493	0	1.462474645	spermatid	RASSF8
MCHR2.AS1	0	0.724955202	0.378	0.092	0	4.108695652	spermatocyte	MCHR2.AS1
PRELID1	0	0.724871983	0.456	0.094	0	4.85106383	spermatogonia	PRELID1
COL6A31	0	0.724836055	0.474	0.061	0	7.770491803	PTM_cells	COL6A3
LMO41	0	0.724816757	0.541	0.119	0	4.546218487	PTM_cells	LMO4
ID2	3.51E-122	0.724624798	0.499	0.12	2.15E-117	4.16E+00	endotheliocyte	ID2
SBDS	0	0.724577	0.662	0.535	0	1.237383178	spermatid	SBDS
CDRT15	0	0.724389832	0.705	0.229	0	3.07860262	spermatocyte	CDRT15
THBD2	0	0.724252912	0.3	0.039	0	7.692307692	Leydig_cells	THBD
AURKC	0	0.724148696	0.89	0.254	0	3.503937008	spermatocyte	AURKC
CAPNS1	0	0.72412875	0.924	0.397	0	2.327455919	spermatocyte	CAPNS1
RPL371	2.56E-40	0.723816102	0.869	0.805	1.57E-35	1.08E+00	macrophages	RPL37
DMRTB1	0	0.723771587	0.584	0.357	0	1.635854342	spermatogonia	DMRTB1
ELL2	1.04E-21	0.723749767	0.253	0.1	6.40E-17	2.53E+00	macrophages	ELL2
GLB1L	0	0.723620012	0.773	0.192	0	4.026041667	spermatocyte	GLB1L
FTH15	1.23E-273	0.723492572	0.896	0.711	7.53E-269	1.26E+00	Sertoli_cells	FTH1
PDCD4	8.68E-57	0.723467691	0.571	0.284	5.32E-52	2.01E+00	endotheliocyte	PDCD4
TAF12	0	0.72346467	0.51	0.243	0	2.098765432	spermatogonia	TAF12
MCL1	7.79E-59	0.723427969	0.764	0.526	4.78E-54	1.45E+00	endotheliocyte	MCL1
LAMB1	5.35E-167	0.723387967	0.308	0.079	3.28E-162	3.90E+00	Leydig_cells	LAMB1
GSTP11	1.65E-48	0.723216871	0.481	0.171	1.01E-43	2.81E+00	macrophages	GSTP1
RBBP8	0	0.723023152	0.556	0.178	0	3.123595506	spermatogonia	RBBP8
CCDC80	0	0.722892784	0.576	0.256	0	2.25	spermatid	CCDC80
ILK1	1.14E-65	0.722877301	0.55	0.288	7.02E-61	1.91E+00	VSM_cells	ILK
VDAC2	0	0.722734719	0.905	0.432	0	2.094907407	spermatocyte	VDAC2
RAI14	0	0.722681199	0.614	0.334	0	1.838323353	spermatid	RAI14
CSNK2B	0	0.722611742	0.972	0.561	0	1.732620321	spermatocyte	CSNK2B
TLR7	0	0.722536559	0.215	0.001	0	215	macrophages	TLR7
AC022007.5	0	0.72252246	0.853	0.238	0	3.584033613	spermatocyte	AC022007.5
ARHGAP9	0	0.722474798	0.832	0.191	0	4.356020942	spermatocyte	ARHGAP9
RPS27L	1.22E-137	0.722399738	0.578	0.338	7.50E-133	1.71E+00	PTM_cells	RPS27L
SERP2	0	0.722288623	0.559	0.265	0	2.109433962	spermatid	SERP2
RTN4	0	0.722288466	0.964	0.592	0	1.628378378	spermatocyte	RTN4
IER3IP1	0	0.722271967	0.482	0.149	0	3.234899329	spermatogonia	IER3IP1
GNB5	0	0.722113142	0.457	0.056	0	8.160714286	PTM_cells	GNB5
RASSF21	0	0.721524571	0.453	0.087	0	5.206896552	PTM_cells	RASSF2
GSN4	6.26E-163	0.721439725	0.698	0.207	3.84E-158	3.37E+00	VSM_cells	GSN
ATP6V1A	0	0.721393661	0.595	0.344	0	1.729651163	spermatid	ATP6V1A
MARCKSL1	5.98E-229	0.721194831	0.598	0.209	3.67E-224	2.86E+00	Leydig_cells	MARCKSL1
C11orf70	0	0.720487855	0.875	0.314	0	2.786624204	spermatocyte	C11orf70
FABP4	3.05E-14	0.720371829	0.025	0.003	1.87E-09	8.33E+00	endotheliocyte	FABP4
FLI1	0	0.720236249	0.395	0.003	0	131.6666667	endotheliocyte	FLI1

SYCN	0	0.720215333	0.188	0.009	0	20.88888889	Sertoli_cells	SYCN
TEX12	0	0.719768318	0.395	0.033	0	11.96969697	spermatogonia	TEX12
RNF144B	6.46E-66	0.719745148	0.209	0.032	3.96E-61	6.53E+00	macrophages	RNF144B
NDUFB113	6.69E-08	0.7194345	0.395	0.127	0.00410186	3.11023622	T_cells	NDUFB11
DEK1	4.59E-114	0.719294496	0.609	0.21	2.82E-109	2.90E+00	VSM_cells	DEK
CTNNB1	1.61E-98	0.719251129	0.543	0.177	9.87E-94	3.07E+00	endotheliocyte	CTNNB1
COL18A1	0	0.719222535	0.39	0.071	0	5.492957746	Leydig_cells	COL18A1
SMARCA2	0	0.719186973	0.743	0.294	0	2.527210884	spermatocyte	SMARCA2
C1orf105	0	0.719125631	0.846	0.265	0	3.19245283	spermatocyte	C1orf105
RPL17	2.03E-44	0.719099267	0.596	0.372	1.24E-39	1.60E+00	endotheliocyte	RPL17
NDUFAF7	0	0.718722922	0.877	0.299	0	2.933110368	spermatocyte	NDUFAF7
SUMO2	0	0.718555041	0.843	0.669	0	1.260089686	spermatogonia	SUMO2
RPL142	1.21E-139	0.71852033	0.785	0.64	7.42E-135	1.23E+00	Leydig_cells	RPL14
HCFC2	0	0.71845295	0.924	0.344	0	2.686046512	spermatocyte	HCFC2
RP5.88207.1	2.87E-18	0.718322182	0.232	0.097	1.76E-13	2.39E+00	macrophages	RP5.88207.1
TES	0	0.718280574	0.598	0.328	0	1.823170732	spermatid	TES
GTSF1	0	0.718068558	0.99	0.644	0	1.537267081	spermatocyte	GTSF1
RNF139	0	0.717966262	0.706	0.505	0	1.398019802	spermatid	RNF139
CCDC107	9.95E-110	0.717960863	0.514	0.169	6.10E-105	3.04E+00	VSM_cells	CCDC107
LHFP1	2.15E-78	0.717916087	0.518	0.212	1.32E-73	2.44E+00	VSM_cells	LHFP
NUB1	0	0.717885501	0.946	0.364	0	2.598901099	spermatocyte	NUB1
DCAF4L2	0	0.717765805	0.51	0.117	0	4.358974359	spermatogonia	DCAF4L2
GAS6	3.49E-150	0.717709825	0.457	0.086	2.14E-145	5.31E+00	endotheliocyte	GAS6
PRPS1L1	0	0.717664765	0.802	0.156	0	5.141025641	spermatocyte	PRPS1L1
ADAM32	0	0.717604542	0.907	0.271	0	3.346863469	spermatocyte	ADAM32
RP11.425L10.1	2.30E-12	0.717486539	0.367	0.245	1.41E-07	1.50E+00	macrophages	RP11.425L10.1
IFITM11	0	0.717159214	0.3	0.016	0	18.75	Leydig_cells	IFITM1
ALKBH7	0	0.717145366	0.997	0.833	0	1.196878752	spermatocyte	ALKBH7
IGF2	2.18E-286	0.717116421	0.546	0.065	1.34E-281	8.40E+00	endotheliocyte	IGF2
SH3BGRL6	2.80E-145	0.717081236	0.296	0.1	1.72E-140	2.96E+00	Sertoli_cells	SH3BGRL
RPS3A3	2.26E-96	0.717027435	0.937	0.898	1.39E-91	1.04E+00	VSM_cells	RPS3A
RPL3P4	9.54E-13	0.717014685	0.338	0.305	5.85E-08	1.11E+00	Leydig_cells	RPL3P4
RFX2	0	0.716999113	0.928	0.358	0	2.592178771	spermatocyte	RFX2
MLF1	0	0.716805425	0.97	0.866	0	1.120092379	spermatid	MLF1
MDH1B	0	0.716676142	0.871	0.248	0	3.512096774	spermatocyte	MDH1B
C1orf111	0	0.716460962	0.624	0.317	0	1.968454259	spermatid	C1orf111
CENPF	0	0.716376444	0.813	0.207	0	3.927536232	spermatocyte	CENPF
CD247	1.14E-115	0.716373789	0.184	0.002	6.98E-111	9.20E+01	T_cells	CD247
HSPA83	2.48E-05	0.716315349	0.711	0.567	1	1.253968254	T_cells	HSPA8
OAZ1	1.10E-26	0.716291185	0.707	0.616	6.77E-22	1.15E+00	macrophages	OAZ1
ARID5B	8.94E-179	0.716104484	0.394	0.122	5.49E-174	3.23E+00	Leydig_cells	ARID5B
FAM210B	0	0.715935212	0.463	0.043	0	10.76744186	PTM_cells	FAM210B
TBC1D10C	5.40E-185	0.715926235	0.237	0.002	3.31E-180	1.19E+02	T_cells	TBC1D10C
MS4A5	0	0.71578233	0.656	0.328	0	2	spermatid	MS4A5
C18orf63	0	0.715763789	0.323	0.045	0	7.177777778	spermatogonia	C18orf63
RPS115	4.86E-09	0.715760091	0.895	0.822	0.000298258	1.088807786	T_cells	RPS11
CALM12	6.46E-91	0.715449207	0.886	0.69	3.96E-86	1.28E+00	VSM_cells	CALM1
CIAPIN1	0	0.714970656	0.652	0.254	0	2.566929134	spermatocyte	CIAPIN1
RPS4X1	2.05E-56	0.714900254	0.754	0.345	1.26E-51	2.19E+00	macrophages	RPS4X
MIS18BP1	0	0.714883101	0.522	0.132	0	3.954545455	spermatogonia	MIS18BP1
BRAP	0	0.714803094	0.944	0.426	0	2.215962441	spermatocyte	BRAP
CST13P	0	0.714685063	0.272	0.036	0	7.555555556	spermatid	CST13P
TYMP	3.92E-121	0.71461002	0.226	0.021	2.40E-116	1.08E+01	macrophages	TYMP
GPR146	0	0.714136303	0.35	0.004	0	87.5	endotheliocyte	GPR146
PLD3	2.66E-163	0.714026952	0.462	0.171	1.63E-158	2.70E+00	Leydig_cells	PLD3
FUNDC2	0	0.713718812	0.568	0.265	0	2.143396226	spermatid	FUNDC2
SLC40A1	1.14E-234	0.713327553	0.375	0.091	6.98E-230	4.12E+00	Leydig_cells	SLC40A1
UBE2R2	0	0.713017699	0.69	0.578	0	1.193771626	spermatid	UBE2R2
TCP11	0	0.712973078	0.884	0.702	0	1.259259259	spermatid	TCP11
PRC1	0	0.712892986	0.57	0.207	0	2.753623188	spermatogonia	PRC1
SYNM	3.12E-77	0.712770695	0.414	0.146	1.91E-72	2.84E+00	VSM_cells	SYNM
CDK7	0	0.712726791	0.737	0.137	0	5.379562044	spermatocyte	CDK7
NDFIP1	3.49E-41	0.712664874	0.346	0.267	2.14E-36	1.30E+00	Sertoli_cells	NDFIP1
PHLDA11	3.17E-252	0.712568026	0.32	0.06	1.94E-247	5.33E+00	Leydig_cells	PHLDA1
RPS242	3.38E-195	0.712357139	0.952	0.883	2.07E-190	1.08E+00	Leydig_cells	RPS24
PLP1	0	0.712177033	0.26	0.014	0	18.57142857	Sertoli_cells	PLP1
TUBA1B	1.81E-64	0.711699398	0.734	0.724	1.11E-59	1.01E+00	spermatogonia	TUBA1B
RHOBTB31	0	0.711604142	0.511	0.121	0	4.223140496	PTM_cells	RHOBTB3
WDR60	0	0.711556457	0.968	0.468	0	2.068376068	spermatocyte	WDR60
ACTG2	1.34E-263	0.71114745	0.313	0.028	8.20E-259	1.12E+01	VSM_cells	ACTG2
ALDH1A2	0	0.711038311	0.91	0.31	0	2.935483871	spermatocyte	ALDH1A2
KHDRBS3	0	0.710581912	0.975	0.509	0	1.915520629	spermatocyte	KHDRBS3
SPPL2C	0	0.71052988	0.464	0.069	0	6.724637681	spermatid	SPPL2C
ACSL4	0	0.71052847	0.27	0.038	0	7.105263158	Sertoli_cells	ACSL4
PPM1J	0	0.710466596	0.602	0.254	0	2.37007874	spermatid	PPM1J

MTND2P281	6.31E-21	0.710352443	0.283	0.121	3.87E-16	2.34E+00	macrophages	MTND2P28
PPIA3	1.16E-170	0.710220615	0.848	0.617	7.10E-166	1.37E+00	Leydig_cells	PPIA
AGBL5	0	0.710203915	0.981	0.502	0	1.954183267	spermatocyte	AGBL5
XPO1	0	0.709977941	0.555	0.142	0	3.908450704	spermatogonia	XPO1
HLA-C3	0	0.709763455	0.542	0.159	0	3.408805031	PTM_cells	HLA-C
ADAD1	0	0.709729603	0.978	0.54	0	1.811111111	spermatocyte	ADAD1
AC009487.4	0	0.709701928	0.464	0.102	0	4.549019608	spermatid	AC009487.4
TAF15	0	0.709587187	0.569	0.182	0	3.126373626	spermatogonia	TAF15
SH3KBP11	2.72E-15	0.709493779	0.342	0.056	1.67E-10	6.11E+00	T_cells	SH3KBP1
RPL291	5.44E-219	0.709221165	0.934	0.844	3.34E-214	1.11E+00	Leydig_cells	RPL29
IQGAP12	5.55E-82	0.709188628	0.474	0.168	3.41E-77	2.82E+00	VSM_cells	IQGAP1
FYTTD1	0	0.708969935	0.627	0.27	0	2.322222222	spermatogonia	FYTTD1
SNU13	0	0.708920854	0.979	0.644	0	1.520186335	spermatocyte	SNU13
LMAN2	0	0.708919962	0.713	0.476	0	1.49789916	spermatogonia	LMAN2
RPS102	7.83E-79	0.708880948	0.814	0.536	4.80E-74	1.52E+00	VSM_cells	RPS10
CLPTM1L	0	0.708764473	0.525	0.15	0	3.5	spermatogonia	CLPTM1L
IFT22	0	0.70875558	0.925	0.475	0	1.947368421	spermatocyte	IFT22
RIPK2	2.78E-57	0.708364274	0.283	0.064	1.71E-52	4.42E+00	macrophages	RIPK2
COMMD8	0	0.708324251	0.775	0.221	0	3.50678733	spermatocyte	COMMD8
GRHPR	8.48E-57	0.708244365	0.282	0.163	5.20E-52	1.73E+00	Sertoli_cells	GRHPR
MT-CO33	3.36E-30	0.708092103	0.523	0.466	2.06E-25	1.12E+00	Sertoli_cells	MT-CO3
ANXA51	6.36E-24	0.707919717	0.515	0.318	3.90E-19	1.62E+00	macrophages	ANXA5
EEF1D3	2.37E-82	0.707903733	0.852	0.626	1.46E-77	1.36E+00	VSM_cells	EEF1D
MEX3D	0	0.707757466	0.46	0.175	0	2.628571429	spermatid	MEX3D
ABCA5	0	0.707538346	0.48	0.171	0	2.807017544	spermatogonia	ABCA5
ATP5E1	1.61E-84	0.707459204	0.688	0.669	9.89E-80	1.03E+00	Sertoli_cells	ATP5E
NCF4	0	0.707248096	0.226	0.001	0	226	macrophages	NCF4
RPSA1	2.33E-94	0.707154516	0.891	0.618	1.43E-89	1.44E+00	endotheliocyte	RPSA
HNRNPC	0	0.707150422	0.773	0.576	0	1.342013889	spermatogonia	HNRNPC
PLPP1	4.19E-88	0.707140414	0.464	0.277	2.57E-83	1.68E+00	Leydig_cells	PLPP1
HECTD1	0	0.707126104	0.512	0.118	0	4.338983051	spermatogonia	HECTD1
MYOCD1	0	0.706873125	0.391	0.037	0	10.56756757	VSM_cells	MYOCD
XRCC5	0	0.706837178	0.755	0.497	0	1.519114688	spermatogonia	XRCC5
RPL4	9.86E-78	0.70673635	0.906	0.749	6.05E-73	1.21E+00	endotheliocyte	RPL4
MYH91	4.09E-306	0.706711042	0.523	0.145	2.51E-301	3.61E+00	PTM_cells	MYH9
GPSM3	9.20E-140	0.706690628	0.259	0.025	5.64E-135	1.04E+01	macrophages	GPSM3
CAPZA2	3.79E-107	0.706498087	0.558	0.175	2.32E-102	3.19E+00	endotheliocyte	CAPZA2
RPS243	1.99E-244	0.706400231	0.945	0.883	1.22E-239	1.07E+00	PTM_cells	RPS24
IGFBP2	0	0.706357269	0.352	0.076	0	4.631578947	spermatogonia	IGFBP2
PPP1R36	0	0.706161317	0.93	0.364	0	2.554945055	spermatocyte	PPP1R36
LAMC1	1.43E-174	0.705881089	0.361	0.103	8.76E-170	3.50E+00	Leydig_cells	LAMC1
RPL26P19	5.01E-19	0.70580018	0.266	0.12	3.07E-14	2.22E+00	macrophages	RPL26P19
AIMP2	0	0.705734007	0.912	0.337	0	2.706231454	spermatocyte	AIMP2
PALLD1	1.82E-60	0.705625727	0.732	0.511	1.12E-55	1.43E+00	VSM_cells	PALLD
CFH2	0	0.705508748	0.468	0.047	0	9.957446809	PTM_cells	CFH
CDK12	0	0.705498272	0.571	0.227	0	2.515418502	spermatogonia	CDK12
PDE3A	0	0.70524231	0.362	0.01	0	36.2	VSM_cells	PDE3A
HNRNPA12	7.19E-127	0.70519612	0.76	0.598	4.41E-122	1.27E+00	Leydig_cells	HNRNPA1
RPL36A1	7.74E-23	0.705133866	0.323	0.138	4.75E-18	2.34E+00	macrophages	RPL36A
YWHAE	0	0.70510072	0.873	0.737	0	1.184531886	spermatogonia	YWHAE
CDV3	0	0.704910981	0.667	0.454	0	1.469162996	spermatid	CDV3
ADGB	0	0.704840903	0.871	0.252	0	3.456349206	spermatocyte	ADGB
TNFSF13B	6.11E-206	0.704786881	0.215	0.011	3.75E-201	1.95E+01	macrophages	TNFSF13B
RAB3IL1	0	0.704779905	0.568	0.261	0	2.176245211	spermatid	RAB3IL1
SFPQ	0	0.704388487	0.752	0.522	0	1.440613027	spermatogonia	SFPQ
RPS219	2.37E-110	0.704318616	0.647	0.517	1.45E-105	1.25E+00	Sertoli_cells	RPS21
MYOCD	0	0.70431173	0.388	0.025	0	15.52	PTM_cells	MYOCD
FCGRT3	0	0.704296914	0.577	0.175	0	3.297142857	PTM_cells	FCGRT
IER34	6.15E-115	0.704245428	0.431	0.104	3.77E-110	4.14E+00	VSM_cells	IER3
DMC1	0	0.704214749	0.287	0.016	0	17.9375	spermatogonia	DMC1
MIDN4	8.94E-82	0.704116233	0.512	0.194	5.49E-77	2.64E+00	VSM_cells	MIDN
OMD	0	0.703930866	0.302	0.014	0	21.57142857	Leydig_cells	OMD
MMP14	0	0.703856178	0.266	0.021	0	12.66666667	Leydig_cells	MMP14
MAGEB2	0	0.70295875	0.281	0.021	0	13.38095238	spermatogonia	MAGEB2
S100A102	3.48E-61	0.702901517	0.546	0.433	2.14E-56	1.26E+00	Sertoli_cells	S100A10
STAR	0	0.702836316	0.243	0.021	0	11.57142857	Sertoli_cells	STAR
MAGEC2	0	0.70280314	0.352	0.018	0	19.55555556	spermatogonia	MAGEC2
ARHGAP102	1.45E-115	0.702694178	0.474	0.137	8.90E-111	3.46E+00	VSM_cells	ARHGAP10
YWHAQ	0	0.702619481	0.951	0.563	0	1.689165187	spermatocyte	YWHAQ
MATR3	1.05E-303	0.70258953	0.331	0.138	6.43E-299	2.40E+00	spermatogonia	MATR3
PGRMC11	0	0.702574033	0.52	0.103	0	5.048543689	PTM_cells	PGRMC1
TMEM2	2.97E-12	0.702524572	0.237	0.035	1.82E-07	6.77E+00	T_cells	TMEM2
RPL121	2.21E-28	0.702467566	0.751	0.634	1.35E-23	1.18E+00	macrophages	RPL12
GEMIN6	0	0.70242156	0.834	0.241	0	3.460580913	spermatocyte	GEMIN6
CKAP4	7.52E-248	0.702382201	0.362	0.08	4.62E-243	4.53E+00	Leydig_cells	CKAP4

C11orf1	0	0.702298903	0.599	0.418	0	1.433014354	spermatid	C11orf1
ERG	0	0.702032154	0.372	0.006	0	62	endotheliocyte	ERG
FAM134A	0	0.701959083	0.953	0.473	0	2.014799154	spermatocyte	FAM134A
S1PR1	0	0.701769263	0.333	0.002	0	166.5	endotheliocyte	S1PR1
YWHAB	0	0.701409923	0.56	0.296	0	1.891891892	spermatogonia	YWHAB
RAB14	0	0.70133401	0.661	0.357	0	1.851540616	spermatogonia	RAB14
WAS	3.08E-297	0.701236195	0.215	0.007	1.89E-292	3.07E+01	macrophages	WAS
TRIP11	0	0.701215054	0.557	0.227	0	2.453744493	spermatogonia	TRIP11
CDC421	6.42E-74	0.701130854	0.749	0.412	3.94E-69	1.82E+00	endotheliocyte	CDC42
ZBTB16	6.14E-180	0.701111079	0.438	0.081	3.77E-175	5.41E+00	VSM_cells	ZBTB16
FAM46A1	0	0.700757916	0.345	0.054	0	6.388888889	Leydig_cells	FAM46A
TTC7A	0	0.700305677	0.487	0.191	0	2.54973822	spermatid	TTC7A
RPL271	9.65E-32	0.700300906	0.774	0.662	5.92E-27	1.17E+00	macrophages	RPL27
AKR1C1	6.00E-297	0.70022435	0.399	0.082	3.68E-292	4.87E+00	Leydig_cells	AKR1C1
PMEPA1	3.42E-272	0.700118065	0.387	0.042	2.10E-267	9.21E+00	VSM_cells	PMEPA1
THAP2	1.57E-06	0.700061403	0.421	0.38	0.096153417	1.107894737	macrophages	THAP2
RPS31	6.99E-51	0.699805445	0.906	0.799	4.29E-46	1.13E+00	macrophages	RPS3
C9orf3	3.09E-92	0.699637258	0.49	0.181	1.90E-87	2.71E+00	VSM_cells	C9orf3
CNTRL	0	0.699527558	0.933	0.352	0	2.650568182	spermatocyte	CNTRL
C11orf58	0	0.69950368	0.702	0.451	0	1.55654102	spermatogonia	C11orf58
SH3PXD2A	0	0.699405232	0.312	0.039	0	8	Leydig_cells	SH3PXD2A
RPS133	7.40E-88	0.699310991	0.905	0.84	4.54E-83	1.08E+00	VSM_cells	RPS13
EEF1B24	2.30E-82	0.699192586	0.643	0.616	1.41E-77	1.04E+00	Sertoli_cells	EEF1B2
RP5.1052M9.13	6.38E-41	0.699047591	0.301	0.202	3.91E-36	1.49E+00	Sertoli_cells	RP5.1052M9.1
C11orf963	1.45E-96	0.698820283	0.444	0.265	8.87E-92	1.68E+00	Sertoli_cells	C11orf96
SERINC1	4.42E-100	0.698786723	0.499	0.144	2.71E-95	3.47E+00	endotheliocyte	SERINC1
FEM1B	0	0.698649142	0.667	0.446	0	1.495515695	spermatid	FEM1B
RPL235	3.04E-100	0.69864891	0.684	0.705	1.87E-95	9.70E-01	Sertoli_cells	RPL23
ADO	0	0.698611108	0.95	0.416	0	2.283653846	spermatocyte	ADO
MAP3K19	0	0.69853665	0.51	0.182	0	2.802197802	spermatid	MAP3K19
RHOG	6.24E-87	0.698494996	0.283	0.045	3.83E-82	6.29E+00	macrophages	RHOG
IFT81	0	0.698407083	0.538	0.285	0	1.887719298	spermatogonia	IFT81
MEF2C	3.15E-87	0.698396434	0.476	0.15	1.93E-82	3.17E+00	endotheliocyte	MEF2C
SORBS3	0	0.698344248	0.622	0.323	0	1.925696594	spermatid	SORBS3
C11orf311	6.65E-41	0.698293828	0.305	0.202	4.08E-36	1.51E+00	Sertoli_cells	C11orf31
DDOST	0	0.698281471	0.589	0.305	0	1.931147541	spermatogonia	DDOST
COMT1	0	0.698262545	0.499	0.085	0	5.870588235	PTM_cells	COMT
ENAH	5.48E-144	0.698002562	0.56	0.299	3.36E-139	1.87E+00	PTM_cells	ENAH
PLA2G5	2.14E-293	0.697953651	0.362	0.034	1.31E-288	1.06E+01	VSM_cells	PLA2G5
FHAD1	0	0.697765469	0.605	0.312	0	1.939102564	spermatid	FHAD1
LRRFIP13	6.51E-06	0.697743377	0.289	0.093	0.399456238	3.107526882	T_cells	LRRFIP1
RND1	7.16E-226	0.697706547	0.256	0.019	4.39E-221	1.35E+01	endotheliocyte	RND1
HSP90AB11	3.47E-80	0.697694789	0.928	0.716	2.13E-75	1.30E+00	endotheliocyte	HSP90AB1
SKP1	0	0.697651261	0.884	0.731	0	1.209302326	spermatogonia	SKP1
SCP2	7.21E-33	0.697312259	0.334	0.26	4.42E-28	1.28E+00	Sertoli_cells	SCP2
RPL221	2.59E-161	0.697289249	0.82	0.641	1.59E-156	1.28E+00	Leydig_cells	RPL22
PPT1	2.89E-13	0.697178435	0.343	0.221	1.77E-08	1.55E+00	macrophages	PPT1
SLC15A3	2.17E-20	0.697028945	0.205	0.075	1.33E-15	2.73E+00	macrophages	SLC15A3
MACF11	1.96E-76	0.697018958	0.571	0.248	1.20E-71	2.30E+00	VSM_cells	MACF1
PTCH1	1.77E-94	0.696870926	0.403	0.187	1.09E-89	2.16E+00	Leydig_cells	PTCH1
GAPDH	8.40E-202	0.696866206	0.883	0.806	5.15E-197	1.10E+00	PTM_cells	GAPDH
SNRPG	0	0.696865128	0.653	0.36	0	1.813888889	spermatogonia	SNRPG
HSPD11	4.93E-110	0.6967799	0.414	0.216	3.03E-105	1.92E+00	Sertoli_cells	HSPD1
FAM186A	0	0.696742869	0.505	0.195	0	2.58974359	spermatid	FAM186A
MARCKS2	1.00E-91	0.696739122	0.451	0.25	6.16E-87	1.80E+00	Leydig_cells	MARCKS
RPL26L1	0	0.69672633	0.918	0.451	0	2.035476718	spermatocyte	RPL26L1
APOL3	0	0.696559938	0.37	0.006	0	61.66666667	endotheliocyte	APOL3
CAMK1	2.83E-261	0.696242562	0.245	0.046	1.73E-256	5.33E+00	Sertoli_cells	CAMK1
SYNPO	1.33E-227	0.696202486	0.362	0.038	8.18E-223	9.53E+00	endotheliocyte	SYNPO
RPL71	4.36E-170	0.695856321	0.903	0.791	2.67E-165	1.14E+00	PTM_cells	RPL7
RPL13AP25	3.76E-06	0.695643342	0.186	0.126	0.23083354	1.476190476	endotheliocyte	RPL13AP25
IER33	5.92E-212	0.695458931	0.371	0.096	3.63E-207	3.86E+00	PTM_cells	IER3
MYC2	0	0.695057403	0.436	0.052	0	8.384615385	PTM_cells	MYC
STK33	0	0.695047888	0.909	0.36	0	2.525	spermatocyte	STK33
MGST31	0	0.694936106	0.657	0.217	0	3.02764977	PTM_cells	MGST3
PDIA6	0	0.694918529	0.516	0.198	0	2.606060606	spermatogonia	PDIA6
SERPINB11	1.66E-73	0.694789825	0.29	0.053	1.02E-68	5.47E+00	macrophages	SERPINB1
NDUFB3	0	0.694680152	0.904	0.361	0	2.504155125	spermatocyte	NDUFB3
TTC29	0	0.694675504	0.971	0.457	0	2.124726477	spermatocyte	TTC29
PLXND1	1.02E-267	0.69435027	0.397	0.039	6.26E-263	1.02E+01	endotheliocyte	PLXND1
UNC119	7.39E-285	0.694341957	0.235	0.039	4.53E-280	6.03E+00	Sertoli_cells	UNC119
ROMO1	0	0.694330903	0.633	0.308	0	2.055194805	spermatogonia	ROMO1
SPATA3-AS1	0	0.693799698	0.361	0.161	0	2.242236025	spermatid	SPATA3-AS1
CD84	1.01E-277	0.693514333	0.226	0.009	6.18E-273	2.51E+01	macrophages	CD84
PDGFRL	1.68E-221	0.693514314	0.376	0.096	1.03E-216	3.92E+00	Leydig_cells	PDGFRL

IZUMO2	0	0.693046349	0.627	0.301	0	2.083056478	spermatid	IZUMO2
RP4-665J23.1	0	0.692863029	0.552	0.174	0	3.172413793	spermatocyte	RP4-665J23.1
TAPBP1	1.73E-12	0.692584834	0.263	0.042	1.06E-07	6.26E+00	T_cells	TAPBP
NUCKS1	1.15E-68	0.692528847	0.712	0.397	7.03E-64	1.79E+00	endotheliocyte	NUCKS1
GOLGA7	0	0.692524351	0.627	0.263	0	2.384030418	spermatogonia	GOLGA7
GNB2L11	2.57E-52	0.692430869	0.558	0.468	1.58E-47	1.19E+00	Leydig_cells	GNB2L1
PKMYT1	0	0.692119108	0.515	0.257	0	2.003891051	spermatogonia	PKMYT1
FRMD4B	3.62E-183	0.692078271	0.422	0.065	2.22E-178	6.49E+00	endotheliocyte	FRMD4B
LRRC6	0	0.691821082	0.892	0.269	0	3.31598513	spermatocyte	LRRC6
GNAQ1	6.25E-35	0.691743245	0.337	0.122	3.84E-30	2.76E+00	macrophages	GNAQ
REL2	0.000881989	0.691685879	0.263	0.114	1	2.307017544	T_cells	REL
KIF5B	0	0.691640733	0.738	0.555	0	1.32972973	spermatogonia	KIF5B
DYRK4	0	0.69150385	0.598	0.342	0	1.748538012	spermatid	DYRK4
PDK4	3.29E-55	0.691467889	0.313	0.092	2.02E-50	3.40E+00	endotheliocyte	PDK4
HSPA4	0	0.691391189	0.681	0.404	0	1.685643564	spermatogonia	HSPA4
RUVBL2	0	0.691299254	0.973	0.534	0	1.822097378	spermatocyte	RUVBL2
PPIL6	0	0.691297804	0.87	0.308	0	2.824675325	spermatocyte	PPIL6
TNFAIP8L1	0	0.691271266	0.54	0.227	0	2.378854626	spermatid	TNFAIP8L1
HDAC7	9.57E-122	0.691216641	0.444	0.102	5.87E-117	4.35E+00	endotheliocyte	HDAC7
BRCA1	0	0.691174155	0.474	0.115	0	4.12173913	spermatogonia	BRCA1
HINT1	0	0.691030895	0.968	0.635	0	1.524409449	spermatocyte	HINT1
AC006019.3	0	0.690939095	0.584	0.25	0	2.336	spermatid	AC006019.3
MRC2	1.21E-163	0.690938326	0.426	0.147	7.40E-159	2.90E+00	Leydig_cells	MRC2
FXVD6	2.97E-191	0.690917193	0.326	0.1	1.82E-186	3.26E+00	Sertoli_cells	FXVD6
MAF2	0	0.690886764	0.458	0.056	0	8.178571429	PTM_cells	MAF
NDRG11	1.04E-291	0.690755562	0.293	0.06	6.37E-287	4.88E+00	Sertoli_cells	NDRG1
S100PBP	0	0.690575719	0.542	0.164	0	3.304878049	spermatogonia	S100PBP
RAB31	6.41E-56	0.690533575	0.354	0.093	3.93E-51	3.81E+00	macrophages	RAB31
LTBP3	2.11E-254	0.690461255	0.364	0.077	1.29E-249	4.73E+00	Leydig_cells	LTBP3
GATA2	2.37E-176	0.690454358	0.365	0.051	1.46E-171	7.16E+00	endotheliocyte	GATA2
SUN2	1.65E-203	0.690425581	0.273	0.071	1.01E-198	3.85E+00	Sertoli_cells	SUN2
NPDC11	0	0.690388007	0.387	0.062	0	6.241935484	Leydig_cells	NPDC1
SLC2A31	1.61E-165	0.69025265	0.316	0.084	9.85E-161	3.76E+00	Leydig_cells	SLC2A3
PP2D1	0	0.690215358	0.576	0.215	0	2.679069767	spermatid	PP2D1
EPS8	2.16E-66	0.69012929	0.457	0.191	1.33E-61	2.39E+00	VSM_cells	EPS8
EPDR1	0	0.690105807	0.426	0.022	0	19.36363636	PTM_cells	EPDR1
SNRPF	0	0.690064335	0.593	0.266	0	2.229323308	spermatogonia	SNRPF
ATP5G23	2.09E-37	0.690062313	0.504	0.495	1.28E-32	1.02E+00	Sertoli_cells	ATP5G2
INMT	0	0.689971351	0.335	0.039	0	8.58974359	Leydig_cells	INMT
REEP3	0	0.689804023	0.846	0.323	0	2.619195046	spermatocyte	REEP3
ATRX3	7.82E-117	0.689789673	0.51	0.143	4.80E-112	3.57E+00	VSM_cells	ATRX
CSTB1	0	0.689692385	0.564	0.156	0	3.615384615	PTM_cells	CSTB
MIR503HG	0	0.689479825	0.284	0.022	0	12.90909091	Leydig_cells	MIR503HG
LINC01548	0	0.689094211	0.475	0.072	0	6.597222222	spermatid	LINC01548
CKB	4.21E-168	0.689052035	0.826	0.684	2.58E-163	1.21E+00	PTM_cells	CKB
ADAM2	0	0.689043948	0.736	0.162	0	4.543209877	spermatocyte	ADAM2
KPNB1	0	0.688876817	0.763	0.501	0	1.522954092	spermatogonia	KPNB1
FAM84A	3.59E-191	0.688749927	0.235	0.057	2.20E-186	4.12E+00	Sertoli_cells	FAM84A
RHOXF1	0	0.688387539	0.253	0.011	0	23	spermatogonia	RHOXF1
RPS7	8.44E-64	0.688197054	0.901	0.8	5.18E-59	1.13E+00	endotheliocyte	RPS7
ATP6V0E11	8.83E-202	0.688128061	0.616	0.286	5.42E-197	2.15E+00	PTM_cells	ATP6V0E1
MRPL51	0	0.687817048	0.977	0.662	0	1.475830816	spermatocyte	MRPL51
ARMC12	0	0.687577325	0.637	0.289	0	2.204152249	spermatid	ARMC12
RNF168	0	0.687542818	0.59	0.275	0	2.145454545	spermatid	RNF168
RP11.620J15.3	9.45E-104	0.687458547	0.212	0.115	5.80E-99	1.84E+00	spermatogonia	RP11.620J15.3
MEAF6	0	0.687452189	0.622	0.333	0	1.867867868	spermatogonia	MEAF6
MT-ND23	2.38E-203	0.687394609	0.765	0.395	1.46E-198	1.94E+00	PTM_cells	MT-ND2
RPL84	1.20E-08	0.687291384	0.947	0.855	0.000733148	1.107602339	T_cells	RPL8
TEPP	0	0.687087171	0.514	0.145	0	3.544827586	spermatid	TEPP
HNRNPD	0	0.686797121	0.66	0.348	0	1.896551724	spermatogonia	HNRNPD
LCP1	0	0.686727197	0.53	0.178	0	2.97752809	spermatid	LCP1
C15orf39	0	0.686545709	0.811	0.233	0	3.480686695	spermatocyte	C15orf39
PTGIS1	0	0.686364395	0.395	0.025	0	15.8	PTM_cells	PTGIS
DES12	0	0.686313984	0.947	0.444	0	2.132882883	spermatocyte	DES12
GPC2	0.000115995	0.686148586	0.34	0.162	1	2.098765432	mastocyte	GPC2
PLD4	0	0.685999229	0.226	0.007	0	32.28571429	macrophages	PLD4
EHBP1	0	0.68588848	0.608	0.37	0	1.643243243	spermatid	EHBP1
LTBP1	4.16E-200	0.685786178	0.37	0.095	2.55E-195	3.89E+00	Leydig_cells	LTBP1
ZNF518A	0	0.685762006	0.485	0.168	0	2.886904762	spermatogonia	ZNF518A
LRRC75A.AS1	0.008159124	0.685657618	0.186	0.161	1	1.155279503	endotheliocyte	LRRC75A.AS1
CYP1B11	1.28E-217	0.685597276	0.443	0.149	7.87E-213	2.97E+00	PTM_cells	CYP1B1
RPL244	1.19E-05	0.685572397	0.789	0.743	0.731516052	1.061911171	T_cells	RPL24
SPACA1	3.00E-158	0.685570293	0.522	0.407	1.84E-153	1.28E+00	spermatid	SPACA1
TCHH	1.34E-36	0.685470412	0.152	0.028	8.19E-32	5.43E+00	macrophages	TCHH
MYADM4	0.000814848	0.685367609	0.395	0.224	1	1.763392857	T_cells	MYADM

TTC25	0	0.685282541	0.914	0.29	0	3.151724138	spermatocyte	TTC25
RPL304	1.21E-85	0.685221712	0.93	0.878	7.43E-81	1.06E+00	VSM_cells	RPL30
PRKCH1	1.09E-05	0.685211673	0.237	0.069	0.665974968	3.434782609	T_cells	PRKCH
SAFB	0	0.685157905	0.546	0.146	0	3.739726027	spermatogonia	SAFB
TJP11	1.26E-68	0.685039045	0.596	0.273	7.70E-64	2.18E+00	endotheliocyte	TJP1
BBOF1	0	0.684844894	0.907	0.33	0	2.748484848	spermatocyte	BBOF1
WIPF3	0	0.684794189	0.262	0.043	0	6.093023256	Sertoli_cells	WIPF3
MTPN	0	0.684686103	0.58	0.306	0	1.895424837	spermatogonia	MTPN
CLEC2D	0.006303045	0.684674716	0.316	0.191	1	1.654450262	T_cells	CLEC2D
LINC00929	0	0.684637017	0.523	0.198	0	2.641414141	spermatid	LINC00929
NRN1	0	0.684628839	0.335	0.001	0	335	endotheliocyte	NRN1
RPS151	1.00E-147	0.68456047	0.869	0.762	6.14E-143	1.14E+00	Leydig_cells	RPS15
SENP6	0	0.684420204	0.569	0.229	0	2.484716157	spermatogonia	SENP6
EHD22	1.59E-296	0.684312372	0.412	0.043	9.77E-292	9.58E+00	VSM_cells	EHD2
MORN5	0	0.684282469	0.918	0.397	0	2.312342569	spermatocyte	MORN5
ZFP365	2.06E-07	0.684269974	0.579	0.244	0.012610776	2.37295082	T_cells	ZFP36
GAS2L1	1.05E-88	0.68424033	0.298	0.147	6.45E-84	2.03E+00	Sertoli_cells	GAS2L1
ADH51	5.67E-200	0.684223328	0.594	0.284	3.48E-195	2.09E+00	PTM_cells	ADH5
SELM1	2.30E-152	0.684214124	0.496	0.206	1.41E-147	2.41E+00	Leydig_cells	SELM
UBN1	0	0.684136978	0.638	0.386	0	1.652849741	spermatogonia	UBN1
YWHAB5	6.83E-05	0.684065968	0.579	0.353	1	1.640226629	T_cells	YWHAB
MT.ND42	4.69E-09	0.684033024	0.381	0.374	0.0002879	1.018716578	Leydig_cells	MT.ND4
VARS	0	0.683971638	0.601	0.322	0	1.866459627	spermatid	VARS
PPM1K	4.99E-64	0.6838275	0.332	0.209	3.06E-59	1.59E+00	Sertoli_cells	PPM1K
FMNL1	3.55E-165	0.683793678	0.246	0.019	2.18E-160	1.29E+01	macrophages	FMNL1
UBLCP1	0	0.683788964	0.538	0.151	0	3.562913907	spermatogonia	UBLCP1
SPAG1	0	0.683753017	0.847	0.212	0	3.995283019	spermatocyte	SPAG1
SNRPA1	0	0.683535255	0.798	0.251	0	3.179282869	spermatocyte	SNRPA1
MT-ND12	7.60E-78	0.683492761	0.603	0.403	4.66E-73	1.50E+00	Leydig_cells	MT-ND1
PSMA8	0	0.68347365	0.456	0.208	0	2.192307692	spermatogonia	PSMA8
CSMD2-AS1	6.01E-264	0.68337566	0.387	0.233	3.69E-259	1.66E+00	spermatid	CSMD2-AS1
MYADM2	1.40E-214	0.683296956	0.54	0.208	8.56E-210	2.60E+00	PTM_cells	MYADM
HSPB11	2.98E-183	0.683231268	0.557	0.207	1.83E-178	2.69E+00	Leydig_cells	HSPB1
RP11.466H18.1	2.28E-44	0.683188397	0.169	0.037	1.40E-39	4.57E+00	endotheliocyte	RP11.466H18.1
RPL303	2.21E-246	0.683056222	0.936	0.876	1.36E-241	1.07E+00	PTM_cells	RPL30
NUDT4	0	0.683050276	0.863	0.254	0	3.397637795	spermatocyte	NUDT4
DNPEP	0	0.683039869	0.626	0.375	0	1.669333333	spermatid	DNPEP
NDUFC1	0	0.682984861	0.933	0.477	0	1.955974843	spermatocyte	NDUFC1
SRSF21	0.008960714	0.682698275	0.553	0.518	1	1.067567568	T_cells	SRSF2
BCLAF1	0	0.682603447	0.648	0.289	0	2.242214533	spermatogonia	BCLAF1
TMEM47	0	0.682355257	0.352	0.033	0	10.66666667	Leydig_cells	TMEM47
MT.ATP81	2.78E-24	0.682238071	0.38	0.174	1.71E-19	2.18E+00	macrophages	MT.ATP8
FANCI	0	0.681856189	0.484	0.102	0	4.745098039	spermatogonia	FANCI
ACR	0	0.681527379	0.916	0.301	0	3.043189369	spermatocyte	ACR
ELOVL5	1.51E-35	0.681483178	0.364	0.302	9.24E-31	1.21E+00	Sertoli_cells	ELOVL5
ARL6IP11	1.99E-48	0.681283618	0.715	0.463	1.22E-43	1.54E+00	endotheliocyte	ARL6IP1
MRPS33	0	0.681211666	0.834	0.318	0	2.622641509	spermatocyte	MRPS33
GMPS	0	0.681172082	0.959	0.488	0	1.965163934	spermatocyte	GMPS
PTK7	0	0.681103662	0.394	0.105	0	3.752380952	spermatid	PTK7
CRTAP2	0	0.681030398	0.495	0.089	0	5.561797753	PTM_cells	CRTAP
GBP1	0	0.680618463	0.35	0.018	0	19.44444444	endotheliocyte	GBP1
C9orf116	0	0.680371255	0.838	0.357	0	2.347338936	spermatocyte	C9orf116
PTMAP5	3.57E-32	0.680300705	0.222	0.063	2.19E-27	3.52E+00	macrophages	PTMAP5
GLO11	1.20E-196	0.680210682	0.395	0.113	7.39E-192	3.50E+00	Leydig_cells	GLO1
EIF4A2	0	0.680078532	0.719	0.397	0	1.811083123	spermatogonia	EIF4A2
RPS215	8.40E-244	0.680017416	0.898	0.666	5.15E-239	1.35E+00	PTM_cells	RPS2
MAP2K3	3.59E-107	0.679975338	0.253	0.03	2.20E-102	8.43E+00	macrophages	MAP2K3
NRP21	7.05E-37	0.67984808	0.232	0.062	4.32E-32	3.74E+00	macrophages	NRP2
MSN2	4.42E-222	0.679646543	0.44	0.064	2.71E-217	6.88E+00	VSM_cells	MSN
GPRIN3	4.69E-44	0.679387056	0.184	0.006	2.88E-39	3.07E+01	T_cells	GPRIN3
MAPRE2	2.48E-203	0.67932657	0.412	0.065	1.52E-198	6.34E+00	VSM_cells	MAPRE2
SEMA7A	0	0.679194839	0.226	0.018	0	12.55555556	Sertoli_cells	SEMA7A
GZMB	8.11E-120	0.679028883	0.105	0.001	4.98E-115	1.05E+02	T_cells	GZMB
PFKL	2.80E-247	0.67826955	0.264	0.056	1.72E-242	4.71E+00	Sertoli_cells	PFKL
TMEM471	0	0.678242663	0.404	0.04	0	10.1	VSM_cells	TMEM47
HYAL2	6.92E-96	0.678031097	0.38	0.089	4.25E-91	4.27E+00	endotheliocyte	HYAL2
RPS27	1.29E-63	0.677993129	0.955	0.821	7.93E-59	1.16E+00	endotheliocyte	RPS27
PGRMC1	3.60E-268	0.677990414	0.45	0.109	2.21E-263	4.13E+00	Leydig_cells	PGRMC1
PLAC8L1	0	0.677952768	0.564	0.238	0	2.369747899	spermatid	PLAC8L1
CFH	6.59E-184	0.677915727	0.427	0.062	4.04E-179	6.89E+00	endotheliocyte	CFH
DNAJA2	0	0.67787324	0.694	0.442	0	1.570135747	spermatogonia	DNAJA2
MS4A4A	0	0.677741055	0.202	0.003	0	67.33333333	macrophages	MS4A4A
CLDND1	0	0.677725186	0.927	0.348	0	2.663793103	spermatocyte	CLDND1
RBBP4	0	0.67766514	0.608	0.315	0	1.93015873	spermatogonia	RBBP4
RPL192	1.55E-209	0.677458016	0.932	0.834	9.51E-205	1.12E+00	PTM_cells	RPL19

DYNLT1	0	0.676890993	0.879	0.435	0	2.020689655	spermatocyte	DYNLT1
LSM7	0	0.67685827	0.441	0.144	0	3.0625	spermatogonia	LSM7
RPL241	3.04E-126	0.676842591	0.837	0.739	1.86E-121	1.13E+00	Leydig_cells	RPL24
MARCKSL11	0	0.676759905	0.64	0.204	0	3.137254902	PTM_cells	MARCKSL1
TOP2B	0	0.676551993	0.337	0.068	0	4.955882353	spermatogonia	TOP2B
MYH10	4.34E-42	0.676405157	0.404	0.199	2.66E-37	2.03E+00	VSM_cells	MYH10
CCND31	1.42E-08	0.67632623	0.316	0.082	0.000871763	3.853658537	T_cells	CCND3
PRKDC	0	0.676258708	0.549	0.203	0	2.704433498	spermatogonia	PRKDC
RPL36AL	6.46E-63	0.676186294	0.801	0.624	3.97E-58	1.28E+00	VSM_cells	RPL36AL
NEIL2	0	0.675740702	0.375	0.042	0	8.928571429	spermatogonia	NEIL2
RPL27A5	7.81E-157	0.675720864	0.784	0.787	4.79E-152	9.96E-01	Sertoli_cells	RPL27A
CYP26B11	0	0.675625039	0.353	0.038	0	9.289473684	PTM_cells	CYP26B1
COX8A	6.25E-87	0.67550877	0.569	0.225	3.83E-82	2.53E+00	VSM_cells	COX8A
CARMN	0	0.675490765	0.311	0.015	0	20.733333333	VSM_cells	CARMN
MDH1	4.34E-52	0.675472766	0.336	0.221	2.66E-47	1.52E+00	Sertoli_cells	MDH1
COL4A1	5.75E-261	0.675427546	0.37	0.04	3.53E-256	9.25E+00	VSM_cells	COL4A1
ARPC3	4.60E-14	0.675388994	0.572	0.535	2.82E-09	1.07E+00	macrophages	ARPC3
IL1A	1.79E-37	0.675384765	0.205	0.049	1.10E-32	4.18E+00	macrophages	IL1A
GAS5	1.29E-12	0.675149786	0.146	0.065	7.92E-08	2.25E+00	endotheliocyte	GAS5
TGFB11	1.52E-12	0.675087916	0.263	0.042	9.32E-08	6.26E+00	T_cells	TGFB1
IDH1	7.87E-97	0.675036476	0.27	0.117	4.83E-92	2.31E+00	Sertoli_cells	IDH1
RAP2B	1.42E-108	0.674827681	0.253	0.029	8.71E-104	8.72E+00	macrophages	RAP2B
NACA1	3.64E-138	0.674825635	0.855	0.745	2.24E-133	1.15E+00	Leydig_cells	NACA
LPAR6	0	0.674712456	0.533	0.193	0	2.761658031	spermatid	LPAR6
C2orf401	3.16E-39	0.674480585	0.712	0.453	1.94E-34	1.57E+00	VSM_cells	C2orf40
TCERG1	0	0.674327528	0.535	0.154	0	3.474025974	spermatogonia	TCERG1
CNTN4	0	0.674035594	0.53	0.22	0	2.409090909	spermatid	CNTN4
YWHAZ	0	0.673791897	0.802	0.732	0	1.095628415	spermatid	YWHAZ
TEX36-AS1	0	0.673760032	0.336	0.111	0	3.027027027	spermatid	TEX36-AS1
RP11-195F19.5	3.26E-173	0.673649963	0.494	0.444	2.00E-168	1.11E+00	spermatid	RP11-195F19.5
YIPF2	0	0.673629917	0.894	0.304	0	2.940789474	spermatocyte	YIPF2
DNAJC1	8.13E-253	0.673525236	0.414	0.231	4.99E-248	1.79E+00	spermatogonia	DNAJC1
LIMCH1	6.99E-51	0.673419568	0.459	0.208	4.29E-46	2.21E+00	endotheliocyte	LIMCH1
LINC01206	1.90E-191	0.673371358	0.366	0.221	1.16E-186	1.66E+00	spermatogonia	LINC01206
CFAP36	0	0.673361225	0.986	0.589	0	1.674023769	spermatocyte	CFAP36
CD81	3.85E-70	0.673208975	0.667	0.312	2.36E-65	2.14E+00	endotheliocyte	CD81
C11orf31	0	0.673181317	0.49	0.131	0	3.740458015	spermatogonia	C11orf31
S1PR3	0	0.67307237	0.294	0.008	0	36.75	VSM_cells	S1PR3
YWHAB2	5.53E-25	0.672778241	0.566	0.351	3.39E-20	1.61E+00	macrophages	YWHAB
AC109829.1	0	0.672770666	0.438	0.162	0	2.703703704	spermatid	AC109829.1
CYB5R31	1.73E-262	0.672715498	0.594	0.212	1.06E-257	2.80E+00	PTM_cells	CYB5R3
PHLDA1	1.35E-137	0.672701056	0.385	0.066	8.30E-133	5.83E+00	endotheliocyte	PHLDA1
FABP5	0	0.672699497	0.503	0.208	0	2.418269231	spermatogonia	FABP5
LRR39	0	0.672675138	0.466	0.112	0	4.160714286	spermatocyte	LRR39
C11orf63	0	0.672309565	0.84	0.216	0	3.888888889	spermatocyte	C11orf63
CCDC126	0	0.672045456	0.609	0.371	0	1.641509434	spermatid	CCDC126
SYNGR4	0	0.672025971	0.448	0.259	0	1.72972973	spermatogonia	SYNGR4
HPRT1	0	0.671971773	0.431	0.091	0	4.736263736	spermatogonia	HPRT1
TNS1	1.69E-206	0.67180151	0.379	0.094	1.04E-201	4.03E+00	Leydig_cells	TNS1
GOLM1	0	0.671798553	0.513	0.237	0	2.164556962	spermatid	GOLM1
VCL1	1.70E-118	0.671790256	0.293	0.119	1.04E-113	2.46E+00	Sertoli_cells	VCL
UBB	0	0.671732064	0.999	0.929	0	1.075349839	spermatocyte	UBB
KCNA5	0	0.671716662	0.349	0.001	0	349	VSM_cells	KCNA5
PLSCR1	3.24E-285	0.671574367	0.437	0.044	1.99E-280	9.93E+00	endotheliocyte	PLSCR1
RPL411	3.78E-49	0.671537836	0.909	0.786	2.32E-44	1.16E+00	macrophages	RPL41
RAN	0	0.671459212	0.884	0.611	0	1.446808511	spermatogonia	RAN
SASH1	0	0.671379851	0.407	0.035	0	11.62857143	endotheliocyte	SASH1
PGLS	0.003611884	0.671235533	0.342	0.207	1	1.652173913	T_cells	PGLS
EEF1B23	1.09E-61	0.67120284	0.789	0.615	6.70E-57	1.28E+00	VSM_cells	EEF1B2
RPL351	6.67E-05	0.671075702	0.895	0.843	1	1.06168446	T_cells	RPL35
ACTL10	0	0.671023669	0.594	0.256	0	2.3203125	spermatid	ACTL10
ATP6V0E1	3.71E-131	0.670964958	0.558	0.291	2.27E-126	1.92E+00	Leydig_cells	ATP6V0E1
ATRX1	3.01E-191	0.670914636	0.443	0.137	1.85E-186	3.23E+00	Leydig_cells	ATRX
TNFRSF10D	2.85E-214	0.67084332	0.3	0.028	1.75E-209	1.07E+01	endotheliocyte	TNFRSF10D
C9orf135-AS1	0	0.670799972	0.557	0.184	0	3.027173913	spermatocyte	C9orf135-AS1
ATF4	2.22E-53	0.670538254	0.648	0.354	1.36E-48	1.83E+00	endotheliocyte	ATF4
TAP11	1.26E-11	0.670512239	0.211	0.029	7.71E-07	7.28E+00	T_cells	TAP1
MT-CO21	2.03E-71	0.67030366	0.609	0.429	1.24E-66	1.42E+00	Leydig_cells	MT-CO2
MXRA71	0	0.670246071	0.481	0.111	0	4.333333333	PTM_cells	MXRA7
TMEM123	1.92E-22	0.670202313	0.394	0.203	1.18E-17	1.94E+00	macrophages	TMEM123
TRIM69	0	0.670123611	0.883	0.307	0	2.876221498	spermatocyte	TRIM69
AR	0	0.670062083	0.338	0.054	0	6.259259259	Leydig_cells	AR
CNN32	1.66E-162	0.669868822	0.623	0.351	1.02E-157	1.77E+00	PTM_cells	CNN3
APOC11	0	0.669652749	0.354	0.022	0	16.09090909	PTM_cells	APOC1
PLEK1	9.57E-29	0.669622922	0.263	0.019	5.87E-24	1.38E+01	T_cells	PLEK

GJA5	1.72E-11	0.669559515	0.146	0.069	1.06E-06	2.12E+00	endotheliocyte	GJA5
APLP21	7.48E-27	0.669537947	0.545	0.321	4.59E-22	1.70E+00	macrophages	APLP2
RP5.956O18.2	0	0.669196281	0.257	0.03	0	8.566666667	spermatid	RP5.956O18.2
H2AFY	1.35E-15	0.669039	0.481	0.347	8.28E-11	1.39E+00	macrophages	H2AFY
HLA-DMA	0	0.668961786	0.395	0.013	0	30.38461538	endotheliocyte	HLA-DMA
RPL33	1.17E-213	0.668797663	0.974	0.921	7.16E-209	1.06E+00	Leydig_cells	RPL3
PPP1R42	0	0.668772522	0.774	0.151	0	5.125827815	spermatocyte	PPP1R42
ARIH2	0	0.668735931	0.571	0.244	0	2.340163934	spermatogonia	ARIH2
RGS12	1.22E-25	0.66872013	0.211	0.013	7.46E-21	1.62E+01	T_cells	RGS1
ATXN7	0.001255573	0.668656581	0.316	0.163	1	1.938650307	T_cells	ATXN7
CTD-2538C1.2	0	0.668609575	0.535	0.148	0	3.614864865	spermatocyte	CTD-2538C1.2
MYL12B1	7.69E-37	0.668467751	0.582	0.629	4.71E-32	9.25E-01	Sertoli_cells	MYL12B
NID1	0	0.668462421	0.27	0.021	0	12.85714286	Leydig_cells	NID1
ADRBK1	4.04E-07	0.668367142	0.184	0.036	0.024805996	5.111111111	T_cells	ADRBK1
YBX2	0	0.668322496	0.988	0.61	0	1.619672131	spermatocyte	YBX2
EIF3K	1.33E-62	0.668214815	0.722	0.482	8.18E-58	1.50E+00	endotheliocyte	EIF3K
TIMM23	0	0.668088192	0.882	0.306	0	2.882352941	spermatocyte	TIMM23
RPS245	6.81E-08	0.667899594	0.947	0.886	0.004179126	1.068848758	T_cells	RPS24
PSMD4	0	0.667816057	0.968	0.52	0	1.861538462	spermatocyte	PSMD4
CTSD1	1.21E-119	0.667605497	0.338	0.148	7.44E-115	2.28E+00	Sertoli_cells	CTSD
RPS51	2.95E-174	0.667603484	0.895	0.815	1.81E-169	1.10E+00	Leydig_cells	RPS5
TKT	5.69E-197	0.667597199	0.455	0.147	3.49E-192	3.10E+00	Leydig_cells	TKT
MT-ND3	1.83E-158	0.667574076	0.482	0.346	1.12E-153	1.39E+00	spermatogonia	MT-ND3
ERP29	0	0.667570554	0.465	0.136	0	3.419117647	spermatogonia	ERP29
RPA2	0	0.667548597	0.645	0.39	0	1.653846154	spermatogonia	RPA2
NDUFB4	0	0.667388298	0.956	0.561	0	1.704099822	spermatocyte	NDUFB4
CDA	0	0.667324412	0.395	0.003	0	131.6666667	endotheliocyte	CDA
USP1	0	0.667266802	0.948	0.455	0	2.083516484	spermatocyte	USP1
CCDC67	0	0.666997961	0.718	0.33	0	2.175757576	spermatocyte	CCDC67
SLA	0	0.666991276	0.182	0.002	0	91	macrophages	SLA
WFDC6	0	0.66698929	0.208	0.007	0	29.71428571	Sertoli_cells	WFDC6
KTN1	0	0.666950528	0.99	0.681	0	1.453744493	spermatocyte	KTN1
CIRBP1	2.07E-71	0.666907819	0.806	0.443	1.27E-66	1.82E+00	endotheliocyte	CIRBP
PFDN4	0	0.666655179	0.861	0.316	0	2.724683544	spermatocyte	PFDN4
PGK2	0	0.666579963	0.818	0.56	0	1.460714286	spermatid	PGK2
AKAP14	0	0.666424323	0.551	0.258	0	2.135658915	spermatid	AKAP14
ATF41	1.58E-10	0.666415278	0.448	0.358	9.70E-06	1.25E+00	macrophages	ATF4
TIE1	0	0.666185528	0.367	0.01	0	36.7	endotheliocyte	TIE1
NFKBIA3	7.18E-293	0.666027048	0.607	0.194	4.41E-288	3.13E+00	PTM_cells	NFKBIA
PRMT2	5.31E-05	0.666006667	0.342	0.146	1	2.342465753	T_cells	PRMT2
KRBOX11	0	0.665607919	0.936	0.43	0	2.176744186	spermatocyte	KRBOX1
VKORC1	2.57E-257	0.665504283	0.428	0.104	1.58E-252	4.12E+00	Leydig_cells	VKORC1
PRIM1	0	0.665320245	0.359	0.043	0	8.348837209	spermatogonia	PRIM1
DDR2	6.08E-181	0.66526613	0.316	0.08	3.73E-176	3.95E+00	Leydig_cells	DDR2
RPL23A1	2.71E-136	0.665132175	0.867	0.732	1.66E-131	1.18E+00	Leydig_cells	RPL23A
AZIN2	0	0.665035599	0.53	0.224	0	2.366071429	spermatid	AZIN2
SHC1	7.24E-211	0.664983902	0.407	0.052	4.44E-206	7.83E+00	endotheliocyte	SHC1
RALGDS	8.61E-298	0.664939424	0.355	0.028	5.28E-293	1.27E+01	endotheliocyte	RALGDS
CKS1B	0	0.66488672	0.569	0.234	0	2.431623932	spermatogonia	CKS1B
C17orf64	0	0.66479199	0.967	0.515	0	1.877669903	spermatocyte	C17orf64
FGFR1	7.61E-86	0.664627582	0.449	0.131	4.67E-81	3.43E+00	endotheliocyte	FGFR1
VAMP8	1.23E-13	0.664622582	0.323	0.201	7.54E-09	1.61E+00	macrophages	VAMP8
TWISTNB	6.81E-07	0.664492194	0.215	0.135	0.041803303	1.592592593	macrophages	TWISTNB
THRAP3	0	0.664309768	0.606	0.226	0	2.681415929	spermatogonia	THRAP3
SPATA32	0	0.664191894	0.46	0.096	0	4.791666667	spermatid	SPATA32
SAMSN1	1.22E-133	0.664181979	0.211	0.002	7.49E-129	1.06E+02	T_cells	SAMSN1
GCC2	0	0.664008981	0.576	0.34	0	1.694117647	spermatogonia	GCC2
CNN3	4.55E-50	0.664001523	0.63	0.361	2.79E-45	1.75E+00	endotheliocyte	CNN3
RAB21	0	0.663758216	0.581	0.334	0	1.739520958	spermatid	RAB21
PGAM11	5.58E-67	0.663700837	0.373	0.235	3.42E-62	1.59E+00	Sertoli_cells	PGAM1
LINC01210	0	0.663585412	0.734	0.122	0	6.016393443	spermatocyte	LINC01210
RILPL2	4.71E-188	0.663528063	0.444	0.069	2.89E-183	6.43E+00	endotheliocyte	RILPL2
COL14A1	1.49E-236	0.663376549	0.355	0.041	9.16E-232	8.66E+00	VSM_cells	COL14A1
CHST1	0	0.663163489	0.748	0.133	0	5.62406015	spermatocyte	CHST1
BRCA2	0	0.663100143	0.435	0.101	0	4.306930693	spermatogonia	BRCA2
SNRPE	0	0.662874194	0.578	0.263	0	2.197718631	spermatogonia	SNRPE
THBD1	8.46E-25	0.662841407	0.175	0.049	5.19E-20	3.57E+00	macrophages	THBD
ZFP36L24	1.56E-116	0.66264163	0.52	0.142	9.57E-112	3.66E+00	VSM_cells	ZFP36L2
SLIRP	0	0.66260772	0.884	0.415	0	2.130120482	spermatocyte	SLIRP
CTSK1	0	0.662542126	0.449	0.039	0	11.51282051	PTM_cells	CTSK
HVCN1	0	0.662381716	0.84	0.303	0	2.772277228	spermatocyte	HVCN1
RPL302	3.08E-177	0.662315424	0.937	0.876	1.89E-172	1.07E+00	Leydig_cells	RPL30
BCL2L14	0	0.662173139	0.642	0.283	0	2.268551237	spermatid	BCL2L14
FKBP9	4.12E-230	0.662149691	0.365	0.038	2.53E-225	9.61E+00	endotheliocyte	FKBP9
EGR11	4.96E-27	0.662074688	0.508	0.261	3.04E-22	1.95E+00	macrophages	EGR1

PRSS54	0	0.662040548	0.595	0.302	0	1.970198675	spermatid	PRSS54
LSM4	0	0.661968565	0.716	0.567	0	1.262786596	spermatogonia	LSM4
ACTG1	0	0.661950311	0.891	0.768	0	1.16015625	spermatogonia	ACTG1
PEBP1	1.34E-192	0.66192638	0.84	0.594	8.20E-188	1.41E+00	PTM_cells	PEBP1
RAD23B	0	0.661911055	0.679	0.443	0	1.532731377	spermatid	RAD23B
RP5.1056L3.3	1.96E-09	0.661838705	0.296	0.195	0.000120437	1.517948718	macrophages	RP5.1056L3.3
C6orf201	0	0.66170905	0.68	0.398	0	1.708542714	spermatid	C6orf201
MYO9B	3.85E-140	0.661693828	0.283	0.102	2.36E-135	2.77E+00	Sertoli_cells	MYO9B
RPS132	8.61E-208	0.661681322	0.906	0.838	5.28E-203	1.08E+00	PTM_cells	RPS13
RAB11FIP5	0	0.661547866	0.888	0.399	0	2.22556391	spermatocyte	RAB11FIP5
PPP1R15B1	1.86E-23	0.66139744	0.323	0.148	1.14E-18	2.18E+00	macrophages	PPP1R15B
RNF20	0	0.661172204	0.77	0.175	0	4.4	spermatocyte	RNF20
ARHGAP15	0	0.661118635	0.741	0.163	0	4.54601227	spermatocyte	ARHGAP15
CISD1	0	0.661105143	0.818	0.33	0	2.478787879	spermatocyte	CISD1
PRDX11	5.93E-177	0.660777635	0.673	0.306	3.64E-172	2.20E+00	Leydig_cells	PRDX1
PRPS22	3.70E-196	0.660684061	0.301	0.083	2.27E-191	3.63E+00	Sertoli_cells	PRPS2
KLF43	5.09E-95	0.660577637	0.648	0.48	3.13E-90	1.35E+00	PTM_cells	KLF4
LRRFIP12	1.56E-152	0.660558587	0.431	0.087	9.59E-148	4.95E+00	VSM_cells	LRRFIP1
POLR2A	0	0.660477575	0.618	0.304	0	2.032894737	spermatogonia	POLR2A
RPS161	1.71E-36	0.660267746	0.862	0.756	1.05E-31	1.14E+00	macrophages	RPS16
MT-ATP6	1.29E-134	0.660186722	0.518	0.412	7.93E-130	1.26E+00	spermatogonia	MT-ATP6
CCDC136	0	0.660152608	0.992	0.618	0	1.605177994	spermatocyte	CCDC136
BASP1	1.90E-81	0.660072372	0.199	0.024	1.17E-76	8.29E+00	macrophages	BASP1
PDCD42	1.06E-179	0.65984493	0.576	0.273	6.48E-175	2.11E+00	PTM_cells	PDCD4
NSA2	0	0.659676932	0.942	0.464	0	2.030172414	spermatocyte	NSA2
IGFBP31	0	0.659663703	0.196	0.014	0	14	Leydig_cells	IGFBP3
RPS4Y13	2.22E-97	0.65948865	0.689	0.267	1.36E-92	2.58E+00	VSM_cells	RPS4Y1
NFKBID	1.85E-251	0.659411641	0.232	0.01	1.14E-246	2.32E+01	macrophages	NFKBID
ID31	0	0.659127171	0.287	0.037	0	7.756756757	Leydig_cells	ID3
PIAS2	0	0.659125819	0.978	0.556	0	1.758992806	spermatocyte	PIAS2
CTSC	5.98E-69	0.65900203	0.273	0.05	3.67E-64	5.46E+00	macrophages	CTSC
CCT4	0	0.658931979	0.947	0.489	0	1.936605317	spermatocyte	CCT4
RPL7A1	3.26E-192	0.658786148	0.934	0.876	2.00E-187	1.07E+00	PTM_cells	RPL7A
ENOX1	0	0.65866515	0.539	0.201	0	2.68159204	spermatid	ENOX1
SPAM1	0	0.658554576	0.46	0.166	0	2.771084337	spermatid	SPAM1
WNK3	8.72E-142	0.658542278	0.262	0.087	5.35E-137	3.01E+00	Sertoli_cells	WNK3
CDKN1A5	0.000268917	0.658525702	0.316	0.131	1	2.41221374	T_cells	CDKN1A
CTSS1	5.17E-10	0.658432829	0.184	0.026	3.17E-05	7.08E+00	T_cells	CTSS
CD631	7.02E-45	0.65836471	0.633	0.289	4.31E-40	2.19E+00	macrophages	CD63
PDGFRB	1.67E-222	0.658303836	0.335	0.074	1.02E-217	4.53E+00	Leydig_cells	PDGFRB
TSKU	0	0.658231717	0.255	0.022	0	11.59090909	Leydig_cells	TSKU
GLT8D1	0	0.657932104	0.83	0.282	0	2.943262411	spermatocyte	GLT8D1
RPS53	2.56E-79	0.657761831	0.886	0.817	1.57E-74	1.08E+00	VSM_cells	RPS5
PSPC1	0	0.657524114	0.545	0.217	0	2.511520737	spermatogonia	PSPC1
USP53	9.69E-20	0.657487918	0.246	0.103	5.94E-15	2.39E+00	macrophages	USP53
RPS3AP47	5.58E-07	0.657272127	0.347	0.275	0.034244837	1.261818182	macrophages	RPS3AP47
ZFAND5	1.57E-45	0.657184263	0.702	0.483	9.62E-41	1.45E+00	endotheliocyte	ZFAND5
MT1A1	4.94E-235	0.657086572	0.326	0.034	3.03E-230	9.59E+00	VSM_cells	MT1A
BRD8	0	0.657071392	0.919	0.361	0	2.545706371	spermatocyte	BRD8
IL61	5.97E-158	0.657027076	0.124	0.014	3.66E-153	8.86E+00	Leydig_cells	IL6
NGFRAP1	4.12E-244	0.656967554	0.475	0.125	2.53E-239	3.80E+00	Leydig_cells	NGFRAP1
CAPN2	2.27E-80	0.656864785	0.568	0.206	1.39E-75	2.76E+00	endotheliocyte	CAPN2
MRPL14	0	0.656804588	0.852	0.383	0	2.224543081	spermatocyte	MRPL14
ANXA71	2.44E-300	0.656788598	0.502	0.143	1.50E-295	3.51E+00	PTM_cells	ANXA7
TFPI	4.30E-74	0.656784214	0.377	0.107	2.64E-69	3.52E+00	endotheliocyte	TFPI
PDIA4	0	0.656743426	0.487	0.083	0	5.86746988	spermatogonia	PDIA4
RPL293	5.80E-89	0.656556053	0.909	0.847	3.56E-84	1.07E+00	VSM_cells	RPL29
RPS142	9.70E-157	0.656533114	0.908	0.828	5.95E-152	1.10E+00	Leydig_cells	RPS14
TIAM2	0	0.656482549	0.483	0.154	0	3.136363636	spermatid	TIAM2
RPL111	2.39E-35	0.65646857	0.909	0.825	1.47E-30	1.10E+00	macrophages	RPL11
TUBB4B	0	0.656198089	0.997	0.842	0	1.184085511	spermatocyte	TUBB4B
EEF1D2	2.67E-165	0.655915196	0.798	0.621	1.64E-160	1.29E+00	PTM_cells	EEF1D
ATP1B11	0	0.655675369	0.527	0.132	0	3.992424242	PTM_cells	ATP1B1
SCD	3.55E-98	0.655570043	0.279	0.122	2.18E-93	2.29E+00	Sertoli_cells	SCD
FAM49B	1.01E-29	0.655484529	0.364	0.155	6.20E-25	2.35E+00	macrophages	FAM49B
HNRNPA14	1.19E-55	0.655424742	0.761	0.603	7.32E-51	1.26E+00	VSM_cells	HNRNPA1
CCDC112	0	0.655420007	0.509	0.219	0	2.324200913	spermatogonia	CCDC112
FAM71F2	0	0.655360861	0.484	0.108	0	4.481481481	spermatid	FAM71F2
TCP10L	0	0.655025754	0.982	0.565	0	1.738053097	spermatocyte	TCP10L
MUM1L1	0	0.655020372	0.239	0.034	0	7.029411765	Sertoli_cells	MUM1L1
GPRC5B	6.91E-83	0.654918097	0.305	0.157	4.24E-78	1.94E+00	Sertoli_cells	GPRC5B
EREG	1.74E-41	0.654862566	0.094	0.011	1.07E-36	8.55E+00	macrophages	EREG
COX5A	0	0.654848257	0.966	0.619	0	1.560581583	spermatocyte	COX5A
FLT1	4.04E-43	0.654824956	0.563	0.328	2.48E-38	1.72E+00	endotheliocyte	FLT1
ITGA5	0	0.654578655	0.347	0.009	0	38.55555556	endotheliocyte	ITGA5

MT-ND1	3.90E-140	0.654483206	0.497	0.387	2.40E-135	1.28E+00	spermatogonia	MT-ND1
C12orf57	2.19E-88	0.654306507	0.607	0.453	1.34E-83	1.34E+00	Leydig_cells	C12orf57
GBP5	5.89E-27	0.654264488	0.184	0.01	3.61E-22	1.84E+01	T_cells	GBP5
CEBPB	5.34E-56	0.654191396	0.293	0.068	3.28E-51	4.31E+00	macrophages	CEBPB
ZNF638	0	0.65412863	0.583	0.24	0	2.429166667	spermatogonia	ZNF638
DKC1	1.14E-137	0.654123849	0.302	0.109	6.97E-133	2.77E+00	Sertoli_cells	DKC1
EDIL3	1.31E-162	0.654113453	0.406	0.078	8.04E-158	5.21E+00	VSM_cells	EDIL3
CDC20	0	0.654026195	0.831	0.229	0	3.628820961	spermatocyte	CDC20
TF	0	0.653829773	0.234	0.015	0	15.6	Sertoli_cells	TF
CPE3	8.32E-87	0.65375811	0.375	0.203	5.10E-82	1.85E+00	Sertoli_cells	CPE
RPL10A1	3.15E-31	0.653594111	0.768	0.662	1.93E-26	1.16E+00	macrophages	RPL10A
PGM5	3.33E-167	0.653228281	0.285	0.032	2.04E-162	8.91E+00	endotheliocyte	PGM5
PARP15	3.18E-22	0.652971894	0.132	0.006	1.95E-17	2.20E+01	T_cells	PARP15
STK39	0	0.652869421	0.739	0.26	0	2.842307692	spermatocyte	STK39
RPL18AP3	7.49E-33	0.652804572	0.189	0.046	4.60E-28	4.11E+00	macrophages	RPL18AP3
POMP	0	0.652712854	0.976	0.687	0	1.420669578	spermatocyte	POMP
HABP4	0	0.65271019	0.608	0.4	0	1.52	spermatid	HABP4
EDNRA2	1.68E-253	0.652629065	0.389	0.045	1.03E-248	8.64E+00	VSM_cells	EDNRA
LIMA1	2.53E-47	0.652463696	0.474	0.223	1.55E-42	2.13E+00	endotheliocyte	LIMA1
ARHGAP35	2.46E-299	0.652436973	0.668	0.503	1.51E-294	1.33E+00	spermatid	ARHGAP35
LINC00226	0	0.652416634	0.52	0.259	0	2.007722008	spermatid	LINC00226
CDC42	0	0.652382013	0.683	0.344	0	1.985465116	spermatogonia	CDC42
TRIB2	1.83E-267	0.652111072	0.311	0.054	1.12E-262	5.76E+00	Leydig_cells	TRIB2
PAPOLB	0	0.652062267	0.878	0.259	0	3.38996139	spermatocyte	PAPOLB
CEP85	0	0.651444154	0.463	0.094	0	4.925531915	spermatogonia	CEP85
RGS191	1.32E-35	0.651381563	0.237	0.012	8.08E-31	1.98E+01	T_cells	RGS19
LINC01096	0	0.651301559	0.808	0.174	0	4.643678161	spermatocyte	LINC01096
CRYAB	0	0.651226562	0.44	0.109	0	4.036697248	PTM_cells	CRYAB
FNDC4	0	0.651186426	0.526	0.191	0	2.753926702	spermatid	FNDC4
BTG12	2.02E-87	0.651146808	0.717	0.606	1.24E-82	1.18E+00	Leydig_cells	BTG1
RPS145	1.70E-132	0.651079178	0.865	0.829	1.04E-127	1.04E+00	Sertoli_cells	RPS14
RPS195	8.39E-89	0.651046498	0.907	0.757	5.15E-84	1.20E+00	VSM_cells	RPS19
SOX7	0	0.650889058	0.352	0.008	0	44	endotheliocyte	SOX7
SF3B1	0	0.650878736	0.638	0.277	0	2.303249097	spermatogonia	SF3B1
IRF11	1.83E-19	0.650820293	0.407	0.222	1.12E-14	1.83E+00	macrophages	IRF1
ZC3HAV1	1.16E-07	0.650779082	0.342	0.104	0.007138885	3.288461538	T_cells	ZC3HAV1
BPTF	0	0.650758874	0.614	0.327	0	1.877675841	spermatogonia	BPTF
LCP21	1.61E-37	0.650645265	0.237	0.012	9.89E-33	1.98E+01	T_cells	LCP2
LINC01539	0	0.650628817	0.573	0.221	0	2.592760181	spermatid	LINC01539
ATP2B1	0	0.65044189	0.346	0.076	0	4.552631579	spermatogonia	ATP2B1
IDS	8.95E-39	0.650437067	0.256	0.069	5.49E-34	3.71E+00	macrophages	IDS
IL1R1	1.03E-257	0.650408958	0.342	0.03	6.30E-253	1.14E+01	endotheliocyte	IL1R1
SOX5	0	0.650354105	0.893	0.297	0	3.006734007	spermatocyte	SOX5
TSEN34	3.68E-56	0.650345335	0.296	0.173	2.26E-51	1.71E+00	Sertoli_cells	TSEN34
HTATSF1	2.53E-115	0.650330551	0.321	0.138	1.55E-110	2.33E+00	Sertoli_cells	HTATSF1
CD831	2.46E-237	0.650312078	0.264	0.058	1.51E-232	4.55E+00	Sertoli_cells	CD83
TTC39A	0	0.650284955	0.657	0.389	0	1.688946015	spermatid	TTC39A
ADCY4	0	0.650094012	0.34	0.006	0	56.66666667	endotheliocyte	ADCY4
DNAAF1	0	0.649998406	0.912	0.316	0	2.886075949	spermatocyte	DNAAF1
SPN	4.24E-153	0.64990368	0.211	0.002	2.60E-148	1.06E+02	T_cells	SPN
SLC2A14	7.17E-109	0.649850554	0.321	0.217	4.40E-104	1.48E+00	spermatogonia	SLC2A14
JUND3	2.46E-100	0.649767813	0.678	0.495	1.51E-95	1.37E+00	PTM_cells	JUND
LSM14B	0	0.649680371	0.555	0.244	0	2.274590164	spermatid	LSM14B
SWI5	0	0.64965938	0.693	0.48	0	1.44375	spermatid	SWI5
CDR2	0	0.649481044	0.777	0.235	0	3.306382979	spermatocyte	CDR2
KLF101	9.12E-12	0.649344652	0.364	0.245	5.59E-07	1.49E+00	macrophages	KLF10
HSPA1B3	7.90E-228	0.649186813	0.523	0.179	4.84E-223	2.92E+00	PTM_cells	HSPA1B
EIF4G1	0	0.649174307	0.573	0.297	0	1.929292929	spermatid	EIF4G1
FTH16	8.85E-05	0.649063736	0.816	0.723	1	1.128630705	T_cells	FTH1
INSIG1	0.000290847	0.649010489	0.286	0.245	1	1.167346939	macrophages	INSIG1
ITM2B5	4.39E-09	0.648976112	0.737	0.327	0.000269332	2.25382263	T_cells	ITM2B
C14orf1	0	0.648898312	0.92	0.367	0	2.506811989	spermatocyte	C14orf1
ZNF706	0	0.648892006	0.632	0.468	0	1.35042735	spermatid	ZNF706
RPL36A4	5.42E-129	0.64878212	0.522	0.134	3.33E-124	3.90E+00	VSM_cells	RPL36A
WDR1	0	0.648770322	0.691	0.542	0	1.274907749	spermatid	WDR1
UBL5	0	0.648754146	0.751	0.531	0	1.414312618	spermatogonia	UBL5
ELN2	3.05E-191	0.648558846	0.338	0.045	1.87E-186	7.51E+00	VSM_cells	ELN
RPL61	2.80E-19	0.648308308	0.714	0.684	1.72E-14	1.04E+00	macrophages	RPL6
EIF3K1	1.35E-59	0.648263776	0.689	0.482	8.26E-55	1.43E+00	VSM_cells	EIF3K
DOK2	0	0.648235009	0.226	0.007	0	32.28571429	macrophages	DOK2
GABRG3.AS1	0	0.648219056	0.279	0.059	0	4.728813559	spermatid	GABRG3.AS1
AIFM1	8.45E-246	0.647990335	0.257	0.053	5.18E-241	4.85E+00	Sertoli_cells	AIFM1
RAC2	0	0.64795491	0.182	0.003	0	60.66666667	macrophages	RAC2
TMC6	1.58E-27	0.647566615	0.211	0.013	9.72E-23	1.62E+01	T_cells	TMC6
TUBA3E	0	0.647485399	0.805	0.311	0	2.588424437	spermatocyte	TUBA3E

ARHGAP30	0	0.647374863	0.192	0.004	0	48	macrophages	ARHGAP30
RP11-80B9.4	2.10E-304	0.64691589	0.341	0.164	1.29E-299	2.08E+00	spermatid	RP11-80B9.4
NDUFS51	1.25E-61	0.646879444	0.679	0.446	7.68E-57	1.52E+00	VSM_cells	NDUFS5
APOC1	0	0.646857909	0.29	0.027	0	10.74074074	Leydig_cells	APOC1
CPSF3	0	0.64625468	0.91	0.341	0	2.668621701	spermatocyte	CPSF3
EMB	8.54E-143	0.646179001	0.229	0.019	5.24E-138	1.21E+01	macrophages	EMB
C16orf86	0	0.646084842	0.783	0.199	0	3.934673367	spermatocyte	C16orf86
CCDC169	0	0.646079521	0.729	0.567	0	1.285714286	spermatid	CCDC169
ATP1B12	1.63E-104	0.645716351	0.311	0.141	1.00E-99	2.21E+00	Sertoli_cells	ATP1B1
TNFAIP2	1.24E-15	0.645671984	0.343	0.192	7.61E-11	1.79E+00	macrophages	TNFAIP2
SH3BP5	1.83E-190	0.645374796	0.602	0.273	1.13E-185	2.21E+00	PTM_cells	SH3BP5
RPS131	1.06E-158	0.645258048	0.917	0.838	6.49E-154	1.09E+00	Leydig_cells	RPS13
HSD17B12	3.95E-65	0.645035371	0.471	0.183	2.42E-60	2.57E+00	endotheliocyte	HSD17B12
BAZ1B	0	0.645007788	0.487	0.144	0	3.381944444	spermatogonia	BAZ1B
KRT19	0	0.644874364	0.26	0.011	0	23.63636364	PTM_cells	KRT19
MZT2A	1.37E-169	0.644858328	0.566	0.271	8.43E-165	2.09E+00	PTM_cells	MZT2A
HLTF1	3.06E-67	0.644828646	0.367	0.222	1.88E-62	1.65E+00	Sertoli_cells	HLTF
ATAD2	0	0.64480168	0.56	0.263	0	2.129277567	spermatogonia	ATAD2
TDRD9	0	0.644744809	0.509	0.169	0	3.01183432	spermatogonia	TDRD9
BLVRB	0	0.644687038	0.36	0.056	0	6.428571429	Leydig_cells	BLVRB
ORC6	0	0.64466143	0.464	0.118	0	3.93220339	spermatogonia	ORC6
IL6ST1	4.73E-75	0.644228504	0.455	0.268	2.90E-70	1.70E+00	Leydig_cells	IL6ST
FZD2	0	0.644134802	0.193	0.015	0	12.86666667	Leydig_cells	FZD2
RAB11FIP11	1.74E-08	0.644110092	0.211	0.039	0.001064977	5.41025641	T_cells	RAB11FIP1
SAP18	0	0.643988622	0.978	0.685	0	1.427737226	spermatocyte	SAP18
ARPC5	0	0.643901979	0.602	0.282	0	2.134751773	spermatogonia	ARPC5
MARK4	0	0.643886311	0.245	0.034	0	7.205882353	Sertoli_cells	MARK4
ACTN1	4.11E-61	0.643756665	0.541	0.247	2.52E-56	2.19E+00	endotheliocyte	ACTN1
ACTN42	0.001957822	0.643714375	0.316	0.164	1	1.926829268	T_cells	ACTN4
PLEC	8.69E-168	0.643589304	0.387	0.057	5.33E-163	6.79E+00	endotheliocyte	PLEC
G3BP1	0	0.643299107	0.594	0.327	0	1.816513761	spermatogonia	G3BP1
MRFAP1	0	0.643264327	0.714	0.418	0	1.708133971	spermatogonia	MRFAP1
PDE6D	0	0.643240247	0.898	0.376	0	2.388297872	spermatocyte	PDE6D
XYLT2	0	0.643155743	0.524	0.234	0	2.239316239	spermatid	XYLT2
SH3BGRL1	3.80E-39	0.643076487	0.343	0.11	2.33E-34	3.12E+00	macrophages	SH3BGRL
FEZ21	2.41E-135	0.642851505	0.264	0.09	1.48E-130	2.93E+00	Sertoli_cells	FEZ2
SYTL1	6.83E-07	0.642701049	0.184	0.037	0.041908029	4.972972973	T_cells	SYTL1
HSPA1B4	2.58E-57	0.642616927	0.461	0.191	1.58E-52	2.41E+00	VSM_cells	HSPA1B
TNS2	3.54E-262	0.642615962	0.417	0.043	2.17E-257	9.70E+00	endotheliocyte	TNS2
SIVA1	0	0.642610291	0.729	0.476	0	1.531512605	spermatogonia	SIVA1
TMEM97	2.03E-37	0.642394544	0.346	0.266	1.25E-32	1.30E+00	Sertoli_cells	TMEM97
CCDC801	5.87E-67	0.642173177	0.528	0.35	3.60E-62	1.51E+00	Leydig_cells	CCDC80
GAPDH1	9.27E-132	0.64189388	0.8	0.81	5.69E-127	9.88E-01	Sertoli_cells	GAPDH
PRPH	0	0.641790009	0.921	0.366	0	2.516393443	spermatocyte	PRPH
SFMBT1	0	0.641664576	0.811	0.263	0	3.08365019	spermatocyte	SFMBT1
RAC15	7.05E-64	0.641662917	0.668	0.375	4.33E-59	1.78E+00	VSM_cells	RAC1
DPT1	0	0.641487763	0.378	0.03	0	12.6	PTM_cells	DPT
NUCB1	3.82E-103	0.641486894	0.491	0.134	2.34E-98	3.66E+00	endotheliocyte	NUCB1
REXO1	0	0.641348295	0.527	0.23	0	2.291304348	spermatid	REXO1
ATP1A1	4.98E-48	0.641282705	0.541	0.283	3.05E-43	1.91E+00	endotheliocyte	ATP1A1
IQCE	0	0.641260109	0.656	0.451	0	1.454545455	spermatid	IQCE
SOD31	1.54E-22	0.641024872	0.34	0.295	9.46E-18	1.15E+00	Sertoli_cells	SOD3
IMPACT	0	0.640903207	0.525	0.161	0	3.260869565	spermatogonia	IMPACT
RRBP1	0	0.64087432	0.543	0.261	0	2.08045977	spermatogonia	RRBP1
IKZF11	3.68E-07	0.640844244	0.158	0.027	0.022570072	5.851851852	T_cells	IKZF1
RPL141	1.50E-24	0.640781003	0.737	0.645	9.21E-20	1.14E+00	macrophages	RPL14
OTUD6B-AS1	0	0.640736614	0.564	0.308	0	1.831168831	spermatocyte	OTUD6B-AS1
BUB1B	0	0.640729674	0.443	0.102	0	4.343137255	spermatogonia	BUB1B
SON	0	0.640675505	0.763	0.529	0	1.442344045	spermatogonia	SON
KCNQ1OT1	6.17E-204	0.640472901	0.301	0.139	3.79E-199	2.17E+00	spermatogonia	KCNQ1OT1
LRIF1	1.71E-45	0.640390215	0.292	0.185	1.05E-40	1.58E+00	Sertoli_cells	LRIF1
ARF1	0	0.640340944	0.959	0.648	0	1.479938272	spermatocyte	ARF1
HSPH1	0	0.640327739	0.744	0.53	0	1.403773585	spermatogonia	HSPH1
RCC1	0	0.640271742	0.504	0.223	0	2.260089686	spermatid	RCC1
CTCFL	0	0.640171397	0.282	0.022	0	12.81818182	spermatogonia	CTCFL
ZEB21	2.78E-296	0.640154749	0.37	0.069	1.70E-291	5.36E+00	Leydig_cells	ZEB2
PIK3R11	2.32E-204	0.640105739	0.348	0.087	1.42E-199	4.00E+00	Leydig_cells	PIK3R1
KRT23	0	0.639968222	0.78	0.192	0	4.0625	spermatocyte	KRT23
NDRG21	2.25E-161	0.639824059	0.412	0.075	1.38E-156	5.49E+00	VSM_cells	NDRG2
GPBP1	0	0.639814043	0.776	0.573	0	1.354275742	spermatogonia	GPBP1
FBLN21	1.72E-240	0.639812822	0.343	0.076	1.05E-235	4.51E+00	PTM_cells	FBLN2
S100A114	8.10E-59	0.639771618	0.636	0.349	4.97E-54	1.82E+00	VSM_cells	S100A11
ZFAS13	4.29E-170	0.639464141	0.542	0.254	2.63E-165	2.13E+00	PTM_cells	ZFAS1
GNPMB1	0	0.639112468	0.431	0.057	0	7.561403509	PTM_cells	GNPMB
GTF3A	0	0.638950817	0.464	0.236	0	1.966101695	spermatogonia	GTF3A

PDCD41	7.10E-89	0.638790509	0.487	0.279	4.35E-84	1.75E+00	Leydig_cells	PDCD4
ATG3	0	0.638708351	0.953	0.512	0	1.861328125	spermatocyte	ATG3
SOX4	0	0.638613559	0.303	0.093	0	3.258064516	spermatogonia	SOX4
IFIT31	3.43E-303	0.638590832	0.222	0.023	2.10E-298	9.65E+00	Leydig_cells	IFIT3
AC010649.1	0	0.638405231	0.433	0.114	0	3.798245614	spermatid	AC010649.1
COX7B	1.79E-103	0.638139755	0.495	0.153	1.10E-98	3.24E+00	VSM_cells	COX7B
CSMD2.AS1	0	0.638067054	0.289	0.071	0	4.070422535	spermatid	CSMD2.AS1
FAM71D	0	0.637995454	0.513	0.201	0	2.552238806	spermatid	FAM71D
MIEF1	0	0.637983285	0.59	0.329	0	1.79331307	spermatid	MIEF1
PCBD1	2.76E-107	0.637949074	0.212	0.07	1.69E-102	3.03E+00	Sertoli_cells	PCBD1
KANK3	0	0.637816301	0.385	0.014	0	27.5	endotheliocyte	KANK3
CEBPD3	0	0.637805899	0.438	0.097	0	4.515463918	PTM_cells	CEBPD
APRT	2.61E-149	0.637775718	0.446	0.169	1.60E-144	2.64E+00	Leydig_cells	APRT
INHBB	0	0.637772315	0.224	0.021	0	10.66666667	Sertoli_cells	INHBB
SNHG5	3.51E-08	0.637759873	0.149	0.082	0.0021563	1.817073171	endotheliocyte	SNHG5
MT-ND41	8.07E-53	0.63765131	0.73	0.414	4.95E-48	1.76E+00	endotheliocyte	MT-ND4
RPL42	5.01E-148	0.637613294	0.828	0.747	3.07E-143	1.11E+00	PTM_cells	RPL4
SVIL1	8.61E-101	0.637554633	0.423	0.118	5.28E-96	3.58E+00	VSM_cells	SVIL
RPL13AP5	6.12E-08	0.637553479	0.171	0.102	0.003753355	1.676470588	endotheliocyte	RPL13AP5
AK3	2.13E-276	0.637550351	0.341	0.063	1.31E-271	5.41E+00	Leydig_cells	AK3
MRPL42	0	0.637315396	0.872	0.405	0	2.15308642	spermatocyte	MRPL42
PHLDA2	2.36E-257	0.637273147	0.245	0.017	1.45E-252	1.44E+01	VSM_cells	PHLDA2
CBR3	0	0.637267312	0.311	0.02	0	15.55	Leydig_cells	CBR3
EGFR1	0	0.63723761	0.434	0.049	0	8.857142857	PTM_cells	EGFR
DGUOK	0	0.637224687	0.553	0.197	0	2.807106599	spermatogonia	DGUOK
IFIT1	1.27E-290	0.63695417	0.355	0.028	7.80E-286	1.27E+01	endotheliocyte	IFIT1
CLTA	0	0.636937761	0.716	0.468	0	1.52991453	spermatogonia	CLTA
SLC38A22	8.13E-107	0.636901625	0.429	0.112	4.99E-102	3.83E+00	VSM_cells	SLC38A2
CXXC5	0	0.636855287	0.631	0.37	0	1.705405405	spermatid	CXXC5
TBP	0	0.636666762	0.754	0.178	0	4.235955056	spermatocyte	TBP
CPED1	0	0.636548811	0.384	0.022	0	17.45454545	PTM_cells	CPED1
PPIB2	0.005634475	0.636497517	0.421	0.294	1	1.431972789	T_cells	PPIB
CD82	1.93E-177	0.636314497	0.357	0.047	1.18E-172	7.60E+00	endotheliocyte	CD82
KLRG1	1.54E-19	0.636261431	0.158	0.01	9.46E-15	1.58E+01	T_cells	KLRG1
RBPJ	0	0.636246479	0.633	0.331	0	1.912386707	spermatogonia	RBPJ
NAA38	0	0.636194148	0.713	0.588	0	1.212585034	spermatid	NAA38
ARHGEF1	9.48E-13	0.636043281	0.237	0.034	5.82E-08	6.97E+00	T_cells	ARHGEF1
RPS111	3.84E-37	0.63596537	0.889	0.822	2.35E-32	1.08E+00	macrophages	RPS11
SLF1	0	0.635841551	0.522	0.167	0	3.125748503	spermatogonia	SLF1
MED4	0	0.635803682	0.636	0.39	0	1.630769231	spermatogonia	MED4
RPS262	1.91E-68	0.635721003	0.648	0.533	1.17E-63	1.22E+00	Leydig_cells	RPS26
NAA15	0	0.635579071	0.515	0.136	0	3.786764706	spermatogonia	NAA15
CCND3	1.65E-142	0.635575178	0.414	0.077	1.02E-137	5.38E+00	endotheliocyte	CCND3
SERTAD12	1.18E-247	0.635574862	0.334	0.066	7.26E-243	5.06E+00	Leydig_cells	SERTAD1
ATP5D1	0.003458305	0.635523896	0.332	0.387	1	0.857881137	Sertoli_cells	ATP5D
ATP5G22	2.65E-61	0.635461711	0.729	0.491	1.62E-56	1.48E+00	VSM_cells	ATP5G2
ATP2A2	0	0.635389941	0.574	0.318	0	1.805031447	spermatogonia	ATP2A2
MAP3K7CL	0	0.635355827	0.281	0.012	0	23.41666667	VSM_cells	MAP3K7CL
CLGN1	0.006974257	0.635296131	0.62	0.541	1	1.146025878	mastocyte	CLGN
FAM114A1	0	0.634979007	0.356	0.05	0	7.12	Leydig_cells	FAM114A1
C21orf59	0	0.634925151	0.846	0.298	0	2.838926174	spermatocyte	C21orf59
PALLD	0	0.634729721	0.915	0.374	0	2.446524064	spermatocyte	PALLD
OOSP2	0	0.634704976	0.191	0.004	0	47.75	Sertoli_cells	OOSP2
CD814	1.61E-67	0.634571054	0.446	0.309	9.85E-63	1.44E+00	Sertoli_cells	CD81
KDM1A	0	0.634519464	0.704	0.451	0	1.56097561	spermatogonia	KDM1A
DAZAP2	3.99E-11	0.634449722	0.438	0.339	2.45E-06	1.29E+00	macrophages	DAZAP2
IFNGR12	0.008671569	0.63420369	0.237	0.122	1	1.942622951	T_cells	IFNGR1
CT83	0	0.634146353	0.527	0.233	0	2.261802575	spermatid	CT83
TFPI1	3.87E-190	0.634010519	0.361	0.101	2.37E-185	3.57E+00	Leydig_cells	TFPI
RP11.402G3.5	0	0.633995749	0.259	0.04	0	6.475	spermatid	RP11.402G3.5
TAGLN24	0.002920771	0.633957108	0.368	0.213	1	1.727699531	T_cells	TAGLN2
DDIT44	1.78E-07	0.633857953	0.316	0.087	0.01094533	3.632183908	T_cells	DDIT4
CAMK2N1	0	0.633835552	0.384	0.037	0	10.37837838	PTM_cells	CAMK2N1
BCL6	1.50E-25	0.633592802	0.273	0.102	9.21E-21	2.68E+00	macrophages	BCL6
PHYHIPL	0	0.633207904	0.895	0.346	0	2.586705202	spermatocyte	PHYHIPL
CYFIP2	0.001077632	0.6331512	0.184	0.064	1	2.875	T_cells	CYFIP2
SPDL1	0	0.633124597	0.509	0.2	0	2.545	spermatogonia	SPDL1
FERMT2	2.80E-207	0.63284256	0.534	0.216	1.72E-202	2.47E+00	PTM_cells	FERMT2
TMEM981	0	0.632795703	0.465	0.107	0	4.345794393	PTM_cells	TMEM98
CTNNA3	0	0.632753872	0.463	0.104	0	4.451923077	spermatid	CTNNA3
AES1	0	0.632710218	0.547	0.13	0	4.207692308	PTM_cells	AES
CALU1	2.05E-240	0.632553806	0.509	0.173	1.26E-235	2.94E+00	PTM_cells	CALU
SLFN51	7.17E-12	0.632440402	0.184	0.022	4.40E-07	8.36E+00	T_cells	SLFN5
SERPINA1	0	0.632315512	0.185	0.001	0	185	macrophages	SERPINA1
SLC52A3	0	0.632294161	0.23	0.008	0	28.75	Sertoli_cells	SLC52A3

GADD45G2	3.76E-88	0.632222127	0.321	0.075	2.31E-83	4.28E+00	VSM_cells	GADD45G
STAG3	0	0.632024011	0.559	0.304	0	1.838815789	spermatogonia	STAG3
C11orf97	0	0.631953399	0.601	0.193	0	3.113989637	spermatocyte	C11orf97
ANXA5	4.34E-69	0.631905793	0.658	0.315	2.66E-64	2.09E+00	endotheliocyte	ANXA5
APRT1	6.07E-05	0.631472492	0.395	0.181	1	2.182320442	T_cells	APRT
JAM21	3.30E-121	0.631403487	0.254	0.092	2.02E-116	2.76E+00	Sertoli_cells	JAM2
BPI	0	0.631373582	0.551	0.217	0	2.539170507	spermatid	BPI
KRT72	0	0.631301021	0.602	0.085	0	7.082352941	spermatocyte	KRT72
HSPD1	0	0.631235994	0.497	0.154	0	3.227272727	spermatogonia	HSPD1
ZBTB38	0	0.631185034	0.572	0.306	0	1.869281046	spermatid	ZBTB38
RP11.120B7.1	2.81E-11	0.631178479	0.421	0.301	1.72E-06	1.40E+00	macrophages	RP11.120B7.1
GUCY1B3	0	0.631081559	0.332	0.013	0	25.53846154	VSM_cells	GUCY1B3
GABRG3-AS1	0	0.631078745	0.361	0.171	0	2.111111111	spermatid	GABRG3-AS1
VMO1	0	0.630972193	0.212	0.005	0	42.4	macrophages	VMO1
TYMS	0	0.63095259	0.742	0.196	0	3.785714286	spermatocyte	TYMS
ZNF829	0	0.630935314	0.517	0.246	0	2.101626016	spermatid	ZNF829
RPS3A1	7.13E-206	0.630879634	0.961	0.896	4.38E-201	1.07E+00	Leydig_cells	RPS3A
C2orf73	0	0.630845928	0.625	0.448	0	1.395089286	spermatid	C2orf73
AC015971.2	0	0.630627467	0.391	0.133	0	2.939849624	spermatid	AC015971.2
BEND2	0	0.630616169	0.225	0.014	0	16.07142857	spermatogonia	BEND2
RABGAP1L	0	0.630484519	0.841	0.286	0	2.940559441	spermatocyte	RABGAP1L
RBM39	0	0.63033431	0.705	0.417	0	1.690647482	spermatogonia	RBM39
CRTAP	2.12E-23	0.630086178	0.276	0.107	1.30E-18	2.58E+00	macrophages	CRTAP
KDELR1	6.91E-137	0.629889952	0.533	0.245	4.24E-132	2.18E+00	Leydig_cells	KDELR1
RPGRIP1	0	0.629876061	0.924	0.362	0	2.552486188	spermatocyte	RPGRIP1
POLR2B	0	0.629595291	0.509	0.132	0	3.856060606	spermatogonia	POLR2B
CREBRF	0	0.629525668	0.537	0.187	0	2.871657754	spermatogonia	CREBRF
PGK1	4.75E-23	0.629511092	0.343	0.158	2.91E-18	2.17E+00	macrophages	PGK1
PRELP	0	0.629319447	0.343	0.025	0	13.72	PTM_cells	PRELP
RPL373	1.64E-208	0.629305155	0.893	0.801	1.01E-203	1.11E+00	PTM_cells	RPL37
GJA1	5.10E-155	0.629171874	0.228	0.022	3.13E-150	1.04E+01	endotheliocyte	GJA1
TACC1	2.01E-17	0.629166496	0.38	0.209	1.24E-12	1.82E+00	macrophages	TACC1
GSKIP	0	0.629147003	0.543	0.35	0	1.551428571	spermatid	GSKIP
IRF8	6.79E-134	0.628919236	0.219	0.018	4.16E-129	1.22E+01	macrophages	IRF8
RPL82	1.97E-223	0.628850498	0.922	0.852	1.21E-218	1.08E+00	PTM_cells	RPL8
PCMT1	0	0.628835004	0.701	0.641	0	1.093603744	spermatid	PCMT1
LNP1	0	0.628809199	0.801	0.188	0	4.260638298	spermatocyte	LNP1
CTSZ	1.21E-217	0.628480072	0.422	0.055	7.44E-213	7.67E+00	endotheliocyte	CTSZ
MRPL20	0	0.62834471	0.581	0.29	0	2.003448276	spermatogonia	MRPL20
SSFA2	7.81E-61	0.628337245	0.464	0.178	4.79E-56	2.61E+00	endotheliocyte	SSFA2
MBNL1	1.44E-112	0.628261297	0.437	0.1	8.84E-108	4.37E+00	endotheliocyte	MBNL1
IRF13	7.14E-133	0.628239724	0.472	0.211	4.38E-128	2.24E+00	PTM_cells	IRF1
CCDC181	0	0.628124816	0.897	0.361	0	2.484764543	spermatocyte	CCDC181
SFRP11	0	0.6281221	0.438	0.087	0	5.034482759	PTM_cells	SFRP1
ARL15	4.27E-231	0.628007105	0.293	0.025	2.62E-226	1.17E+01	endotheliocyte	ARL15
NR6A1	0	0.62799581	0.591	0.353	0	1.674220963	spermatogonia	NR6A1
MAFB1	2.81E-243	0.627908641	0.302	0.055	1.72E-238	5.49E+00	Leydig_cells	MAFB
LINC00694	0	0.627722687	0.575	0.194	0	2.963917526	spermatocyte	LINC00694
DPYSL3	3.39E-83	0.627712834	0.414	0.114	2.08E-78	3.63E+00	endotheliocyte	DPYSL3
HMGB13	1.27E-74	0.627579464	0.827	0.547	7.77E-70	1.51E+00	VSM_cells	HMGB1
SEC31A	9.32E-64	0.62748989	0.461	0.304	5.72E-59	1.52E+00	Leydig_cells	SEC31A
MT2A2	5.25E-161	0.62747023	0.514	0.218	3.22E-156	2.36E+00	PTM_cells	MT2A
SELK	5.30E-18	0.627467249	0.479	0.529	3.25E-13	9.05E-01	Sertoli_cells	SELK
SPNS2	0	0.627383233	0.283	0.007	0	40.42857143	endotheliocyte	SPNS2
ELMO3	0	0.627322584	0.498	0.128	0	3.890625	spermatocyte	ELMO3
DCTN1	1.33E-39	0.627300587	0.349	0.261	8.16E-35	1.34E+00	Sertoli_cells	DCTN1
EIF4A1	8.22E-63	0.627289519	0.533	0.235	5.04E-58	2.27E+00	endotheliocyte	EIF4A1
MBNL12	1.92E-186	0.627249396	0.355	0.094	1.18E-181	3.78E+00	Leydig_cells	MBNL1
CENPW	0	0.626898145	0.795	0.277	0	2.870036101	spermatocyte	CENPW
CENPU	0	0.626854218	0.972	0.534	0	1.820224719	spermatocyte	CENPU
MYL12B	9.95E-49	0.626850881	0.769	0.624	6.10E-44	1.23E+00	endotheliocyte	MYL12B
ZFAS12	7.28E-92	0.626794161	0.47	0.259	4.47E-87	1.81E+00	Leydig_cells	ZFAS1
NUDT3	0	0.626567231	0.551	0.162	0	3.401234568	spermatogonia	NUDT3
MAEL	0	0.626490464	0.986	0.617	0	1.598055105	spermatocyte	MAEL
COMMD6	0.007980703	0.626388492	0.526	0.487	1	1.080082136	T_cells	COMMD6
AC093901.1	0	0.626323056	0.838	0.245	0	3.420408163	spermatocyte	AC093901.1
MSRB3	0	0.626174123	0.407	0.065	0	6.261538462	PTM_cells	MSRB3
RBBP7	3.23E-220	0.626092144	0.591	0.23	1.98E-215	2.57E+00	PTM_cells	RBBP7
GADD45G1	0	0.626007509	0.415	0.062	0	6.693548387	PTM_cells	GADD45G
TXN3	1.98E-83	0.625925342	0.598	0.258	1.22E-78	2.32E+00	VSM_cells	TXN
PRPF6	0	0.625781095	0.615	0.315	0	1.952380952	spermatogonia	PRPF6
RP11-80F22.15	0	0.625757246	0.554	0.209	0	2.650717703	spermatocyte	RP11-80F22.15
SYNPO2	0	0.625729961	0.386	0.044	0	8.772727273	PTM_cells	SYNPO2
MT.CO31	2.43E-29	0.625679485	0.572	0.326	1.49E-24	1.75E+00	macrophages	MT.CO3
SLC25A4	8.35E-86	0.625586612	0.518	0.201	5.13E-81	2.58E+00	VSM_cells	SLC25A4

FHL1	0	0.625404797	0.596	0.297	0	2.006734007	spermatid	FHL1
ZC3H12A	2.83E-25	0.625394291	0.219	0.071	1.74E-20	3.08E+00	macrophages	ZC3H12A
PCYOX11	0	0.625365476	0.478	0.104	0	4.596153846	PTM_cells	PCYOX1
C7orf62	0	0.62530001	0.833	0.227	0	3.669603524	spermatocyte	C7orf62
RMND5B	0	0.625250353	0.922	0.396	0	2.328282828	spermatocyte	RMND5B
DDX42	0	0.625105327	0.528	0.178	0	2.966292135	spermatogonia	DDX42
RPS61	4.06E-07	0.625034158	0.947	0.931	0.024901783	1.017185822	T_cells	RPS6
RHOC	3.02E-95	0.62481709	0.511	0.15	1.85E-90	3.41E+00	endotheliocyte	RHOC
FAM8A1	0	0.624592122	0.574	0.403	0	1.424317618	spermatid	FAM8A1
SPRED1	1.01E-22	0.624511504	0.316	0.144	6.23E-18	2.19E+00	macrophages	SPRED1
SYCE1	3.13E-304	0.624470259	0.615	0.423	1.92E-299	1.45E+00	spermatogonia	SYCE1
PDZD9	0	0.624397385	0.781	0.164	0	4.762195122	spermatocyte	PDZD9
ATP6V0E12	4.00E-27	0.624301589	0.36	0.299	2.45E-22	1.20E+00	Sertoli_cells	ATP6V0E1
ASGR1	0	0.624284037	0.478	0.168	0	2.845238095	spermatid	ASGR1
STARD6	0	0.624220538	0.819	0.261	0	3.137931034	spermatocyte	STARD6
TIMP1	4.15E-143	0.62418697	0.653	0.161	2.55E-138	4.06E+00	endotheliocyte	TIMP1
LINC00657	3.38E-125	0.623786215	0.488	0.25	2.07E-120	1.95E+00	PTM_cells	LINC00657
TNFRSF14	3.81E-22	0.623652493	0.237	0.02	2.34E-17	1.19E+01	T_cells	TNFRSF14
SYNE1	3.62E-77	0.623578	0.422	0.126	2.22E-72	3.35E+00	endotheliocyte	SYNE1
DEK	0	0.623548201	0.449	0.153	0	2.934640523	spermatogonia	DEK
C10orf128	0	0.623391375	0.313	0.005	0	62.6	endotheliocyte	C10orf128
GTF3C2-AS1	0	0.623384629	0.34	0.101	0	3.366336634	spermatid	GTF3C2-AS1
PSMD2	0	0.623362907	0.742	0.535	0	1.386915888	spermatogonia	PSMD2
KIF3A	0	0.623267986	0.65	0.409	0	1.589242054	spermatogonia	KIF3A
CHCHD101	6.76E-31	0.622986252	0.202	0.122	4.15E-26	1.66E+00	Sertoli_cells	CHCHD10
AES2	1.13E-135	0.622851622	0.345	0.138	6.91E-131	2.50E+00	Sertoli_cells	AES
MT-ATP65	1.59E-30	0.62276767	0.502	0.43	9.74E-26	1.17E+00	Sertoli_cells	MT-ATP6
SIRPA	3.39E-97	0.622702218	0.219	0.025	2.08E-92	8.76E+00	macrophages	SIRPA
ATP5E2	6.20E-05	0.622579697	0.737	0.67	1	1.1	T_cells	ATP5E
NINJ1	2.07E-36	0.622508628	0.222	0.057	1.27E-31	3.89E+00	macrophages	NINJ1
EIF2AK2	3.81E-140	0.622503318	0.387	0.067	2.34E-135	5.78E+00	endotheliocyte	EIF2AK2
REG3G	0	0.622400268	0.186	0.004	0	46.5	Sertoli_cells	REG3G
NUDT41	5.57E-35	0.622270714	0.588	0.41	3.42E-30	1.43E+00	VSM_cells	NUDT4
TSPAN18	7.04E-109	0.622109079	0.37	0.078	4.32E-104	4.74E+00	endotheliocyte	TSPAN18
ZNF596	0	0.621977324	0.736	0.134	0	5.492537313	spermatocyte	ZNF596
PINK1	0	0.621911825	0.904	0.455	0	1.986813187	spermatocyte	PINK1
RAC1	0	0.621901396	0.606	0.317	0	1.911671924	spermatogonia	RAC1
EHD2	0	0.621693698	0.313	0.038	0	8.236842105	Leydig_cells	EHD2
HNRNPA15	0.002891881	0.621513083	0.658	0.605	1	1.087603306	T_cells	HNRNPA1
RP11-12M5.1	0	0.621417876	0.345	0.139	0	2.482014388	spermatid	RP11-12M5.1
CSE1L	0	0.621397831	0.677	0.441	0	1.535147392	spermatogonia	CSE1L
BAG2	0	0.621300333	0.798	0.238	0	3.352941176	spermatocyte	BAG2
TUBA3D	0	0.621292534	0.97	0.456	0	2.127192982	spermatocyte	TUBA3D
CRAT	0	0.621251471	0.942	0.446	0	2.112107623	spermatocyte	CRAT
PKM1	1.42E-70	0.621218496	0.588	0.52	8.71E-66	1.13E+00	Sertoli_cells	PKM
PPIA	0	0.621208189	0.773	0.587	0	1.316865417	spermatogonia	PPIA
KMT2B	0	0.621195586	0.452	0.102	0	4.431372549	spermatogonia	KMT2B
PPIA1	3.86E-57	0.621174357	0.859	0.623	2.37E-52	1.38E+00	endotheliocyte	PPIA
PPP2CB	3.97E-133	0.621161868	0.572	0.336	2.43E-128	1.70E+00	PTM_cells	PPP2CB
C9orf135	0	0.620950559	0.663	0.176	0	3.767045455	spermatocyte	C9orf135
PPA1	0	0.620949742	0.58	0.223	0	2.600896861	spermatogonia	PPA1
THAP5	0	0.620670499	0.601	0.407	0	1.476658477	spermatid	THAP5
RASIP1	1.15E-195	0.620593403	0.4	0.054	7.04E-191	7.41E+00	endotheliocyte	RASIP1
ATG4D	0	0.620419429	0.748	0.185	0	4.043243243	spermatocyte	ATG4D
RPL261	1.68E-26	0.62040797	0.832	0.755	1.03E-21	1.10E+00	macrophages	RPL26
WBP2NL	0	0.620190415	0.529	0.241	0	2.195020747	spermatid	WBP2NL
WWTR11	0	0.620188601	0.416	0.087	0	4.781609195	PTM_cells	WWTR1
ELN1	0	0.620016538	0.36	0.034	0	10.58823529	PTM_cells	ELN
MYL65	2.69E-06	0.619921393	0.816	0.665	0.165289757	1.227067669	T_cells	MYL6
AXL	2.64E-30	0.61987537	0.219	0.063	1.62E-25	3.48E+00	macrophages	AXL
ANXA6	7.33E-226	0.619766375	0.481	0.163	4.50E-221	2.95E+00	PTM_cells	ANXA6
RPS10	6.03E-38	0.619522029	0.7	0.538	3.70E-33	1.30E+00	endotheliocyte	RPS10
CLK4	0	0.619458414	0.514	0.297	0	1.730639731	spermatid	CLK4
VDAC3	0	0.619356974	0.887	0.442	0	2.00678733	spermatocyte	VDAC3
FTL4	2.23E-90	0.619305302	0.831	0.523	1.37E-85	1.59E+00	VSM_cells	FTL
DXO	0	0.619299483	0.632	0.502	0	1.258964143	spermatid	DXO
RAD9B	0	0.619190755	0.387	0.05	0	7.74	spermatogonia	RAD9B
SEMA3G	6.43E-282	0.619156793	0.171	0.006	3.95E-277	2.85E+01	endotheliocyte	SEMA3G
HIPK3	4.16E-45	0.619151934	0.444	0.201	2.55E-40	2.21E+00	endotheliocyte	HIPK3
BNIP3L	8.11E-88	0.619119021	0.649	0.534	4.97E-83	1.22E+00	Leydig_cells	BNIP3L
LINC01120	0	0.619062028	0.201	0.029	0	6.931034483	spermatogonia	LINC01120
ELOF1	0	0.61903158	0.958	0.513	0	1.867446394	spermatocyte	ELOF1
FAM122B	0	0.618948004	0.235	0.021	0	11.19047619	Sertoli_cells	FAM122B
LDHB2	6.64E-106	0.618929547	0.626	0.215	4.07E-101	2.91E+00	VSM_cells	LDHB
ISCA1	0	0.618816189	0.657	0.527	0	1.246679317	spermatid	ISCA1

MORF4L2	2.78E-94	0.618809166	0.523	0.311	1.71E-89	1.68E+00	Leydig_cells	MORF4L2
TBXAS1	0	0.618660656	0.215	0.004	0	53.75	macrophages	TBXAS1
RPS72	3.40E-74	0.618581819	0.915	0.799	2.09E-69	1.15E+00	VSM_cells	RPS7
THEMIS2	0	0.618446275	0.185	0.01	0	18.5	Sertoli_cells	THEMIS2
RPS6KA3	3.40E-260	0.618388203	0.367	0.034	2.08E-255	1.08E+01	endotheliocyte	RPS6KA3
H1FX2	9.16E-79	0.618376553	0.419	0.135	5.62E-74	3.10E+00	VSM_cells	H1FX
TBX2-AS1	0	0.618346504	0.298	0.018	0	16.55555556	VSM_cells	TBX2-AS1
PPIA2	9.87E-24	0.618224813	0.744	0.626	6.06E-19	1.19E+00	macrophages	PPIA
HLA.DOA	0	0.618172367	0.165	0.001	0	165	macrophages	HLA.DOA
METTL5	0	0.618172183	0.42	0.081	0	5.185185185	spermatogonia	METTL5
SLCO3A1	0	0.618109099	0.854	0.27	0	3.162962963	spermatocyte	SLCO3A1
HSD17B11	0	0.617881669	0.409	0.035	0	11.68571429	endotheliocyte	HSD17B11
RBM392	8.53E-19	0.617754078	0.606	0.478	5.23E-14	1.27E+00	macrophages	RBM39
RPS153	1.66E-78	0.617635068	0.89	0.764	1.02E-73	1.16E+00	VSM_cells	RPS15
ARV1	0	0.617450752	0.768	0.2	0	3.84	spermatocyte	ARV1
RP13-270P17.1	0	0.617299117	0.548	0.171	0	3.204678363	spermatocyte	RP13-270P17.1
DDI1	0	0.617248224	0.619	0.276	0	2.242753623	spermatid	DDI1
PRDX23	1.16E-156	0.617232119	0.495	0.104	7.15E-152	4.76E+00	VSM_cells	PRDX2
COX7A1	3.15E-155	0.617045061	0.442	0.079	1.93E-150	5.59E+00	endotheliocyte	COX7A1
ELF1	7.53E-107	0.616923845	0.434	0.107	4.62E-102	4.06E+00	endotheliocyte	ELF1
SIRT2	0	0.616822093	0.47	0.177	0	2.655367232	spermatid	SIRT2
ADAMTS5	0	0.616730132	0.24	0.02	0	12	Leydig_cells	ADAMTS5
LBH1	1.67E-06	0.616544898	0.316	0.101	0.102240605	3.128712871	T_cells	LBH
CETN31	6.70E-05	0.616544149	0.58	0.39	1	1.487179487	mastocyte	CETN3
RP11.545G3.1	0	0.616359781	0.27	0.1	0	2.7	spermatid	RP11.545G3.1
NOTCH4	4.54E-69	0.616319886	0.387	0.124	2.78E-64	3.12E+00	endotheliocyte	NOTCH4
TMEM232	0	0.616201442	0.817	0.24	0	3.404166667	spermatocyte	TMEM232
LAIR1	1.28E-20	0.616174919	0.239	0.096	7.87E-16	2.49E+00	macrophages	LAIR1
SELENBP1	0	0.616133409	0.289	0.019	0	15.21052632	Leydig_cells	SELENBP1
DR1	0	0.616129997	0.933	0.4	0	2.3325	spermatocyte	DR1
TRAPPC1	2.30E-11	0.615939755	0.301	0.286	1.41E-06	1.05E+00	Sertoli_cells	TRAPPC1
USF2	1.74E-36	0.615663801	0.286	0.087	1.07E-31	3.29E+00	macrophages	USF2
NDUFA13	4.08E-208	0.61563703	0.566	0.451	2.51E-203	1.25E+00	spermatid	NDUFA13
IER52	3.10E-146	0.615624681	0.375	0.126	1.90E-141	2.98E+00	Leydig_cells	IER5
TNFRSF1B	1.74E-224	0.615586213	0.199	0.008	1.07E-219	2.49E+01	macrophages	TNFRSF1B
FAM205A	0	0.615551151	0.448	0.179	0	2.502793296	spermatid	FAM205A
TGFBR3	8.52E-40	0.615543105	0.365	0.152	5.22E-35	2.40E+00	endotheliocyte	TGFBR3
KRBOX1	0	0.61553934	0.738	0.513	0	1.438596491	spermatogonia	KRBOX1
MTX1	0	0.615519303	0.686	0.519	0	1.32177264	spermatid	MTX1
MAPK13	0	0.615440492	0.865	0.275	0	3.145454545	spermatocyte	MAPK13
TSGA10	0	0.615439368	0.958	0.47	0	2.038297872	spermatocyte	TSGA10
C4orf17	0	0.615378579	0.566	0.171	0	3.30994152	spermatocyte	C4orf17
UQCRH2	3.26E-20	0.615361155	0.436	0.438	2.00E-15	9.95E-01	Sertoli_cells	UQCRH
NUP93	0	0.615164116	0.526	0.168	0	3.130952381	spermatogonia	NUP93
CYB5R2	0	0.615029357	0.957	0.423	0	2.262411348	spermatocyte	CYB5R2
MT-CO15	4.01E-20	0.614881584	0.495	0.451	2.46E-15	1.10E+00	Sertoli_cells	MT-CO1
MIR22HG1	2.95E-105	0.614797942	0.389	0.098	1.81E-100	3.97E+00	VSM_cells	MIR22HG
MAFF2	9.93E-207	0.614745991	0.29	0.059	6.09E-202	4.92E+00	Leydig_cells	MAFF
PLK2	1.06E-42	0.614681141	0.501	0.252	6.51E-38	1.99E+00	endotheliocyte	PLK2
HRASLS5	0	0.614566958	0.958	0.42	0	2.280952381	spermatocyte	HRASLS5
ACSL6	0	0.614449697	0.758	0.124	0	6.112903226	spermatocyte	ACSL6
CTAGE1	0	0.614312219	0.663	0.128	0	5.1796875	spermatocyte	CTAGE1
WDR63	0	0.614079042	0.685	0.124	0	5.524193548	spermatocyte	WDR63
MAP7D2	0	0.614030868	0.359	0.087	0	4.126436782	spermatogonia	MAP7D2
LYRM7	0	0.613605685	0.859	0.316	0	2.71835443	spermatocyte	LYRM7
TRIM17	0	0.61360126	0.46	0.167	0	2.754491018	spermatid	TRIM17
KLHL10	0	0.613312633	0.631	0.329	0	1.917933131	spermatid	KLHL10
NFE2L1	4.12E-72	0.6132546	0.406	0.218	2.53E-67	1.86E+00	Leydig_cells	NFE2L1
RBM35	2.39E-89	0.613232046	0.596	0.222	1.47E-84	2.68E+00	VSM_cells	RBM3
CASC3	0	0.613177479	0.571	0.264	0	2.162878788	spermatogonia	CASC3
BNC2	7.06E-222	0.613044806	0.32	0.068	4.33E-217	4.71E+00	Leydig_cells	BNC2
MT1X1	2.13E-219	0.612968258	0.288	0.055	1.30E-214	5.24E+00	Leydig_cells	MT1X
RP5.942I16.1	0	0.612912312	0.37	0.114	0	3.245614035	spermatocyte	RP5.942I16.1
NDUFB111	1.43E-124	0.612878165	0.482	0.121	8.78E-120	3.98E+00	VSM_cells	NDUFB11
CALU	1.98E-111	0.612835134	0.411	0.18	1.22E-106	2.28E+00	Leydig_cells	CALU
FKBP6	0	0.612734479	0.479	0.243	0	1.971193416	spermatogonia	FKBP6
RASSF51	4.38E-19	0.612537272	0.184	0.014	2.69E-14	1.31E+01	T_cells	RASSF5
MT-ND4L3	0.001265581	0.612497698	0.368	0.186	1	1.978494624	T_cells	MT-ND4L
ZFYVE21	3.00E-62	0.612494263	0.531	0.225	1.84E-57	2.36E+00	endotheliocyte	ZFYVE21
ASF1B	0	0.612316822	0.463	0.161	0	2.875776398	spermatogonia	ASF1B
CHGB	0	0.612244117	0.368	0.064	0	5.75	spermatogonia	CHGB
ATP6V0E13	0.000135426	0.612222487	0.5	0.302	1	1.655629139	T_cells	ATP6V0E1
TMEM179B	0	0.612147229	0.49	0.134	0	3.656716418	spermatogonia	TMEM179B
VMP1	1.35E-07	0.6120622	0.283	0.197	0.008263498	1.436548223	macrophages	VMP1
HLA-C4	6.86E-93	0.611964436	0.51	0.172	4.21E-88	2.97E+00	VSM_cells	HLA-C

PDLIM71	2.06E-68	0.611949641	0.425	0.156	1.26E-63	2.72E+00	VSM_cells	PDLIM7
SRP14	0	0.611905759	0.854	0.696	0	1.227011494	spermatogonia	SRP14
PTAFR	6.24E-74	0.611873	0.172	0.02	3.83E-69	8.60E+00	macrophages	PTAFR
CFAP126	0	0.611806511	0.578	0.119	0	4.857142857	spermatocyte	CFAP126
LRRC37A	0	0.611728833	0.372	0.143	0	2.601398601	spermatid	LRRC37A
LYZL2	0	0.611636279	0.655	0.338	0	1.937869822	spermatid	LYZL2
RP11.332E4.1	1.30E-07	0.611588786	0.273	0.187	0.007962653	1.459893048	macrophages	RP11.332E4.1
NACA5	7.67E-05	0.611300951	0.789	0.749	1	1.053404539	T_cells	NACA
DNAJC15	0	0.611121793	0.877	0.432	0	2.030092593	spermatocyte	DNAJC15
ATP6AP2	2.48E-170	0.611107933	0.474	0.166	1.52E-165	2.86E+00	Leydig_cells	ATP6AP2
LRRC32	0	0.610779053	0.337	0.016	0	21.0625	endotheliocyte	LRRC32
LCN6	0	0.610659933	0.335	0.001	0	335	endotheliocyte	LCN6
C3orf58	2.92E-22	0.610544788	0.232	0.086	1.79E-17	2.70E+00	macrophages	C3orf58
SH2D1A	5.21E-304	0.61046525	0.184	0.001	3.19E-299	1.84E+02	T_cells	SH2D1A
SOX6	0	0.610434455	0.539	0.318	0	1.694968553	spermatid	SOX6
CFL11	2.67E-19	0.61042863	0.751	0.737	1.64E-14	1.02E+00	macrophages	CFL1
ITGA1	7.60E-123	0.610419444	0.296	0.053	4.66E-118	5.58E+00	VSM_cells	ITGA1
FAM127A1	0	0.610315864	0.434	0.062	0	7	PTM_cells	FAM127A
JAML1	1.86E-13	0.610269305	0.132	0.01	1.14E-08	1.32E+01	T_cells	JAML
CMIP1	1.12E-157	0.610265431	0.449	0.181	6.89E-153	2.48E+00	PTM_cells	CMIP
DDR21	0	0.610221602	0.404	0.073	0	5.534246575	PTM_cells	DDR2
ISLR2	0	0.610178218	0.402	0.059	0	6.813559322	PTM_cells	ISLR
CRBN	0	0.610160296	0.907	0.427	0	2.12412178	spermatocyte	CRBN
PKM	0	0.610120612	0.658	0.462	0	1.424242424	spermatid	PKM
PPP4R1	3.99E-231	0.609940216	0.497	0.354	2.45E-226	1.40E+00	spermatid	PPP4R1
ALKBH5	0	0.609864593	0.658	0.388	0	1.695876289	spermatogonia	ALKBH5
PUF60	0	0.609863583	0.609	0.29	0	2.1	spermatogonia	PUF60
CAP2	0	0.609760362	0.328	0.011	0	29.81818182	VSM_cells	CAP2
SELT	0	0.609637273	0.437	0.127	0	3.440944882	spermatogonia	SELT
AEBP1	8.36E-279	0.609632651	0.403	0.081	5.13E-274	4.98E+00	Leydig_cells	AEBP1
FMNL11	1.16E-12	0.609574543	0.184	0.021	7.12E-08	8.76E+00	T_cells	FMNL1
RTN3	0	0.609306327	0.639	0.386	0	1.655440415	spermatogonia	RTN3
RPL18A6	2.10E-130	0.609224402	0.649	0.402	1.29E-125	1.61E+00	Sertoli_cells	RPL18A
CCL8	2.72E-07	0.609108219	0.074	0.027	0.016714914	2.740740741	macrophages	CCL8
DOCK9	7.11E-212	0.60904139	0.38	0.046	4.36E-207	8.26E+00	endotheliocyte	DOCK9
IER5L1	3.66E-156	0.608942938	0.357	0.059	2.25E-151	6.05E+00	VSM_cells	IER5L
KANK2	2.76E-202	0.60894037	0.316	0.069	1.69E-197	4.58E+00	Leydig_cells	KANK2
RBPMS2	3.28E-161	0.60893153	0.336	0.053	2.01E-156	6.34E+00	VSM_cells	RBPMS2
RPLP2	3.50E-62	0.608894813	0.945	0.833	2.15E-57	1.13E+00	endotheliocyte	RPLP2
ARPC1B2	9.56E-169	0.608884228	0.412	0.072	5.87E-164	5.72E+00	VSM_cells	ARPC1B
CCND1	0	0.608786122	0.351	0.036	0	9.75	PTM_cells	CCND1
POLR2K	0	0.608752078	0.479	0.132	0	3.628787879	spermatogonia	POLR2K
ACTG11	2.30E-66	0.608695866	0.948	0.793	1.41E-61	1.20E+00	endotheliocyte	ACTG1
TCEAL42	9.09E-110	0.608685529	0.588	0.185	5.57E-105	3.18E+00	VSM_cells	TCEAL4
TINAGL1	0	0.608650997	0.328	0.02	0	16.4	endotheliocyte	TINAGL1
SH3BGRL	1.45E-151	0.608647629	0.531	0.106	8.92E-147	5.01E+00	endotheliocyte	SH3BGRL
RAB3IP	0	0.608536434	0.611	0.4	0	1.5275	spermatid	RAB3IP
GLTSCR22	2.52E-49	0.608314664	0.698	0.518	1.55E-44	1.35E+00	VSM_cells	GLTSCR2
TAF7	2.60E-29	0.608284002	0.444	0.425	1.59E-24	1.04E+00	Sertoli_cells	TAF7
FLJ36000	0	0.608260574	0.513	0.232	0	2.211206897	spermatid	FLJ36000
M6PR	0	0.6082214	0.485	0.155	0	3.129032258	spermatogonia	M6PR
COX4I2	0	0.60819143	0.23	0.007	0	32.85714286	VSM_cells	COX4I2
LINC01420	8.80E-154	0.608188088	0.207	0.052	5.40E-149	3.98E+00	Sertoli_cells	LINC01420
IL13	0	0.608142621	0.816	0.202	0	4.03960396	spermatocyte	IL13
CHRAC1	0	0.608128254	0.494	0.125	0	3.952	spermatogonia	CHRAC1
COLEC11	0	0.608093194	0.355	0.028	0	12.67857143	PTM_cells	COLEC11
SPINT21	0.007691661	0.607982188	0.58	0.523	1	1.108986616	mastocyte	SPINT2
TFDP2	2.73E-211	0.607741905	0.665	0.575	1.67E-206	1.16E+00	spermatid	TFDP2
GID4	0	0.607703449	0.588	0.483	0	1.217391304	spermatid	GID4
NRIP3	0	0.607701121	0.959	0.472	0	2.031779661	spermatocyte	NRIP3
SUGP2	3.03E-273	0.607554093	0.651	0.517	1.86E-268	1.26E+00	spermatogonia	SUGP2
HCK	2.53E-194	0.607510587	0.205	0.011	1.55E-189	1.86E+01	macrophages	HCK
EEF1B21	7.87E-100	0.607350322	0.732	0.613	4.83E-95	1.19E+00	Leydig_cells	EEF1B2
CTNNAL11	3.25E-10	0.607299234	0.335	0.341	2.00E-05	9.82E-01	Sertoli_cells	CTNNAL1
GRK4	0	0.607282554	0.951	0.454	0	2.094713656	spermatocyte	GRK4
MYO5A	3.93E-18	0.607251447	0.199	0.074	2.41E-13	2.69E+00	macrophages	MYO5A
NOV	0	0.607234664	0.256	0.008	0	32	VSM_cells	NOV
ATRAID	0	0.607234574	0.89	0.472	0	1.88559322	spermatocyte	ATRAID
PNN	0	0.60723225	0.613	0.354	0	1.731638418	spermatogonia	PNN
CLIC11	5.71E-13	0.607203493	0.384	0.264	3.50E-08	1.45E+00	macrophages	CLIC1
SPATC1	0	0.607199691	0.398	0.058	0	6.862068966	spermatid	SPATC1
RPS154	4.37E-89	0.607054119	0.779	0.766	2.68E-84	1.02E+00	Sertoli_cells	RPS15
DKKL11	0	0.606974426	0.857	0.633	0	1.353870458	spermatid	DKKL1
USO1	0	0.606617904	0.548	0.219	0	2.502283105	spermatogonia	USO1
AP1S22	3.00E-124	0.606599498	0.262	0.092	1.84E-119	2.85E+00	Sertoli_cells	AP1S2

FLRT21	0	0.606530341	0.378	0.05	0	7.56	PTM_cells	FLRT2
RPS17	0	0.606426964	0.743	0.4	0	1.8575	spermatogonia	RPS17
HSPA1B	8.32E-97	0.606270514	0.591	0.19	5.10E-92	3.11E+00	endotheliocyte	HSPA1B
MYL61	3.79E-202	0.605834219	0.879	0.656	2.33E-197	1.34E+00	Leydig_cells	MYL6
FBLN22	4.18E-183	0.60582334	0.277	0.076	2.57E-178	3.64E+00	Sertoli_cells	FBLN2
CSF2RA	0	0.605740925	0.182	0.001	0	182	macrophages	CSF2RA
CDCA2	0	0.605736314	0.777	0.221	0	3.515837104	spermatocyte	CDCA2
FAM27C	0	0.605722612	0.503	0.283	0	1.777385159	spermatid	FAM27C
TLN1	6.33E-08	0.605424593	0.404	0.328	0.003885113	1.231707317	macrophages	TLN1
SENP1	0	0.60538328	0.533	0.31	0	1.719354839	spermatogonia	SENP1
PPP1R15B	9.02E-54	0.605359549	0.392	0.146	5.53E-49	2.68E+00	endotheliocyte	PPP1R15B
IFNGR1	6.60E-73	0.605351194	0.392	0.118	4.05E-68	3.32E+00	endotheliocyte	IFNGR1
SOD2	1.23E-26	0.605231403	0.625	0.499	7.56E-22	1.25E+00	endotheliocyte	SOD2
TSPAN3	0	0.605206131	0.576	0.274	0	2.102189781	spermatogonia	TSPAN3
MFF	0	0.605109566	0.985	0.688	0	1.431686047	spermatocyte	MFF
RPL374	4.45E-74	0.605074637	0.892	0.804	2.73E-69	1.11E+00	VSM_cells	RPL37
FBXW7	0	0.604968526	0.516	0.202	0	2.554455446	spermatogonia	FBXW7
ZFYVE211	3.29E-200	0.604849459	0.532	0.214	2.02E-195	2.49E+00	PTM_cells	ZFYVE21
PCYT2	0	0.604770961	0.976	0.533	0	1.831144465	spermatocyte	PCYT2
TET2	7.23E-138	0.604717339	0.226	0.019	4.44E-133	1.19E+01	macrophages	TET2
C1QTNF9B-AS1	0	0.604644373	0.551	0.174	0	3.166666667	spermatocyte	C1QTNF9B-AS1
MT-CYB5	7.01E-27	0.604414495	0.471	0.393	4.30E-22	1.20E+00	Sertoli_cells	MT-CYB
KRIT1	0	0.604339145	0.515	0.239	0	2.154811715	spermatogonia	KRIT1
ABHD4	0	0.604258529	0.22	0.021	0	10.47619048	Sertoli_cells	ABHD4
DGCR6	0	0.604188816	0.433	0.095	0	4.557894737	spermatid	DGCR6
EIF4A24	4.66E-62	0.604183704	0.761	0.462	2.86E-57	1.65E+00	VSM_cells	EIF4A2
RPS251	8.45E-74	0.604120799	0.901	0.832	5.18E-69	1.08E+00	VSM_cells	RPS25
GOLGB1	5.63E-63	0.603950252	0.544	0.394	3.45E-58	1.38E+00	Leydig_cells	GOLGB1
BCL2	2.74E-108	0.6039385	0.195	0.018	1.68E-103	1.08E+01	macrophages	BCL2
RHOC2	2.75E-53	0.603936362	0.268	0.148	1.69E-48	1.81E+00	Sertoli_cells	RHOC
PTPN12	0	0.603782724	0.356	0.064	0	5.5625	spermatogonia	PTPN12
LYAR1	0.000919752	0.60370533	0.66	0.51	1	1.294117647	mastocyte	LYAR
SERINC5	7.53E-296	0.603643614	0.248	0.042	4.62E-291	5.90E+00	Sertoli_cells	SERINC5
ADGRA2	0	0.603573803	0.262	0.016	0	16.375	Leydig_cells	ADGRA2
MEIOC	2.51E-216	0.603525033	0.599	0.495	1.54E-211	1.21E+00	spermatogonia	MEIOC
AZGP1	7.17E-185	0.603522281	0.207	0.046	4.40E-180	4.50E+00	Sertoli_cells	AZGP1
TEX15	3.47E-127	0.60352136	0.392	0.275	2.13E-122	1.43E+00	spermatogonia	TEX15
SRP19	0	0.603441707	0.671	0.205	0	3.273170732	spermatocyte	SRP19
GPBP1L1	0	0.603376611	0.538	0.223	0	2.412556054	spermatogonia	GPBP1L1
DSN1	0	0.603262632	0.517	0.19	0	2.721052632	spermatogonia	DSN1
HIGD1A	0	0.603249813	0.491	0.184	0	2.668478261	spermatogonia	HIGD1A
HMMR	0	0.603248088	0.864	0.281	0	3.074733096	spermatocyte	HMMR
REEP4	0	0.603168951	0.692	0.165	0	4.193939394	spermatocyte	REEP4
MRGPRF	0	0.603123513	0.367	0.03	0	12.233333333	PTM_cells	MRGPRF
ZFAS14	4.50E-62	0.603006794	0.539	0.263	2.76E-57	2.05E+00	VSM_cells	ZFAS1
NAP1L1	3.05E-133	0.602952428	0.778	0.661	1.87E-128	1.18E+00	PTM_cells	NAP1L1
ESCO2	0	0.602820505	0.333	0.054	0	6.166666667	spermatogonia	ESCO2
ANGPTL11	0	0.602693864	0.402	0.045	0	8.933333333	PTM_cells	ANGPTL1
THEMIS	9.90E-87	0.602479903	0.184	0.003	6.07E-82	6.13E+01	T_cells	THEMIS
SRSF3	0	0.602400076	0.75	0.587	0	1.277683135	spermatogonia	SRSF3
CRY1	0	0.602380635	0.452	0.157	0	2.878980892	spermatogonia	CRY1
EVI2A	7.99E-200	0.60237291	0.195	0.009	4.90E-195	2.17E+01	macrophages	EVI2A
MT-ND21	8.06E-56	0.602279809	0.732	0.408	4.95E-51	1.79E+00	endotheliocyte	MT-ND2
NFATC2IP	0	0.602095805	0.524	0.175	0	2.994285714	spermatogonia	NFATC2IP
TRABD2A	0	0.602074079	0.563	0.255	0	2.207843137	spermatid	TRABD2A
UTP6	0	0.60205144	0.525	0.233	0	2.253218884	spermatogonia	UTP6
NDUFB2	2.37E-280	0.602040383	0.638	0.537	1.46E-275	1.19E+00	spermatid	NDUFB2
SAMD4B	0	0.601978157	0.509	0.172	0	2.959302326	spermatogonia	SAMD4B
NAMPTP1	7.25E-116	0.60188943	0.128	0.007	4.45E-111	1.83E+01	macrophages	NAMPTP1
PTBP2	0	0.601839088	0.455	0.097	0	4.690721649	spermatogonia	PTBP2
POLR1D	0	0.601802761	0.933	0.522	0	1.787356322	spermatocyte	POLR1D
TRPC5OS	0	0.601742085	0.2	0.005	0	40	Sertoli_cells	TRPC5OS
CKAP2	0	0.601658603	0.54	0.264	0	2.045454545	spermatogonia	CKAP2
CNOT1	0	0.601592743	0.881	0.391	0	2.253196931	spermatocyte	CNOT1
TMEM225	0	0.601588347	0.747	0.134	0	5.574626866	spermatocyte	TMEM225
CCDC7	0	0.601555597	0.956	0.448	0	2.133928571	spermatocyte	CCDC7
AC062017.1	0	0.601547874	0.886	0.321	0	2.760124611	spermatocyte	AC062017.1
HSP90AB12	2.92E-171	0.601438959	0.871	0.711	1.79E-166	1.23E+00	PTM_cells	HSP90AB1
DYNC2L11	0	0.601375224	0.795	0.257	0	3.093385214	spermatocyte	DYNC2L1
BTF3	2.13E-59	0.601352994	0.846	0.713	1.31E-54	1.19E+00	endotheliocyte	BTF3
NGLY1	0	0.601350715	0.7	0.57	0	1.228070175	spermatid	NGLY1
EQTN	9.09E-290	0.601306523	0.491	0.277	5.58E-285	1.77E+00	spermatid	EQTN
PTPN18	2.68E-82	0.601263303	0.202	0.025	1.64E-77	8.08E+00	macrophages	PTPN18
TMEM91	0	0.601242135	0.477	0.152	0	3.138157895	spermatid	TMEM91
PPP4C	0	0.601148969	0.639	0.439	0	1.455580866	spermatogonia	PPP4C

DKKL1	0	0.601025118	0.991	0.603	0	1.64344942	spermatocyte	DKKL1
CENPK	0	0.600975979	0.461	0.139	0	3.316546763	spermatogonia	CENPK
NT5DC2	8.91E-262	0.600771307	0.447	0.121	5.46E-257	3.69E+00	PTM_cells	NT5DC2
PTPN6	0.005581804	0.600580117	0.184	0.076	1	2.421052632	T_cells	PTPN6
CELF1	0	0.600326737	0.501	0.138	0	3.630434783	spermatogonia	CELF1
SRSF2	0	0.600099053	0.696	0.468	0	1.487179487	spermatogonia	SRSF2
NCOA4	9.09E-07	0.599871883	0.387	0.338	0.055751392	1.144970414	macrophages	NCOA4
HSPA14	0	0.599831252	0.54	0.318	0	1.698113208	spermatogonia	HSPA14
NR2F1	2.23E-237	0.599807613	0.257	0.042	1.37E-232	6.12E+00	Leydig_cells	NR2F1
NENF	0	0.599672298	0.476	0.108	0	4.407407407	PTM_cells	NENF
MAFF3	1.24E-124	0.599499409	0.336	0.064	7.64E-120	5.25E+00	VSM_cells	MAFF
MDK	3.03E-108	0.599219992	0.437	0.103	1.86E-103	4.24E+00	endotheliocyte	MDK
YPEL2	4.93E-97	0.599102976	0.323	0.065	3.02E-92	4.97E+00	endotheliocyte	YPEL2
CASQ2	3.04E-238	0.5990583	0.281	0.025	1.87E-233	1.12E+01	VSM_cells	CASQ2
CHAF1A	0	0.598876068	0.38	0.055	0	6.909090909	spermatogonia	CHAF1A
EEF1B22	2.91E-129	0.598829278	0.757	0.611	1.78E-124	1.24E+00	PTM_cells	EEF1B2
ATN11	7.90E-57	0.598518307	0.283	0.134	4.84E-52	2.11E+00	Leydig_cells	ATN1
EEF1A15	0	0.598391322	0.954	0.923	0	1.033586132	Sertoli_cells	EEF1A1
SERF2	0	0.598218016	0.981	0.712	0	1.377808989	spermatocyte	SERF2
CD41	0	0.598214406	0.246	0.022	0	11.18181818	Leydig_cells	CD4
TUBB3	4.22E-82	0.598164384	0.411	0.24	2.59E-77	1.71E+00	Sertoli_cells	TUBB
TMEM51	0	0.598007465	0.317	0.016	0	19.8125	VSM_cells	TMEM51
EIF5A2	1.08E-279	0.597970348	0.562	0.45	6.64E-275	1.25E+00	spermatid	EIF5A2
ITGAL	3.37E-40	0.597907112	0.184	0.007	2.07E-35	2.63E+01	T_cells	ITGAL
ZBTB32	0	0.597834614	0.645	0.139	0	4.64028777	spermatocyte	ZBTB32
ACSS1	2.96E-154	0.597683922	0.273	0.087	1.81E-149	3.14E+00	Sertoli_cells	ACSS1
TSC22D32	5.85E-128	0.597671697	0.377	0.138	3.59E-123	2.73E+00	Leydig_cells	TSC22D3
MYO1F	2.59E-51	0.597657739	0.205	0.039	1.59E-46	5.26E+00	macrophages	MYO1F
LDHA	3.51E-45	0.597478578	0.769	0.601	2.16E-40	1.28E+00	endotheliocyte	LDHA
MRV11.AS1	1.26E-158	0.59726183	0.356	0.235	7.73E-154	1.51E+00	spermatid	MRV11.AS1
ANXA111	3.58E-137	0.59723866	0.448	0.1	2.19E-132	4.48E+00	VSM_cells	ANXA11
TUBB	1.69E-81	0.597218162	0.645	0.245	1.04E-76	2.63E+00	endotheliocyte	TUBB
TMEM53	0	0.597208087	0.515	0.279	0	1.845878136	spermatid	TMEM53
MAN1A1	0	0.597198848	0.462	0.214	0	2.158878505	spermatid	MAN1A1
ANGPTL41	0	0.59713218	0.371	0.023	0	16.13043478	PTM_cells	ANGPTL4
IGFBP51	1.29E-181	0.596981477	0.274	0.062	7.93E-177	4.42E+00	PTM_cells	IGFBP5
MRPL36	0	0.5969288	0.878	0.432	0	2.032407407	spermatocyte	MRPL36
RAN1	0	0.596780174	0.899	0.59	0	1.523728814	spermatocyte	RAN
TBCA	7.47E-10	0.596472673	0.363	0.373	4.59E-05	9.73E-01	Sertoli_cells	TBCA
ATP5G21	3.40E-14	0.59633781	0.576	0.494	2.09E-09	1.17E+00	macrophages	ATP5G2
TRAPPC3	0	0.596300763	0.885	0.404	0	2.190594059	spermatocyte	TRAPPC3
PTRHD1	0	0.596208779	0.855	0.333	0	2.567567568	spermatocyte	PTRHD1
NRP1	2.23E-288	0.596201822	0.362	0.03	1.37E-283	1.21E+01	endotheliocyte	NRP1
S100A43	0.006376732	0.596142199	0.14	0.054	1	2.592592593	mastocyte	S100A4
SRC	0	0.596113037	0.231	0.016	0	14.4375	Sertoli_cells	SRC
SERINC12	1.10E-128	0.595968304	0.381	0.139	6.73E-124	2.74E+00	Leydig_cells	SERINC1
DNAJB1	0	0.595939689	0.976	0.6	0	1.626666667	spermatocyte	DNAJB1
ART5	0	0.595870333	0.57	0.101	0	5.643564356	spermatocyte	ART5
JUNB5	7.00E-34	0.595719069	0.423	0.345	4.29E-29	1.23E+00	Sertoli_cells	JUNB
GFOD1	0	0.595689402	0.308	0.018	0	17.11111111	endotheliocyte	GFOD1
SERPINE1	0	0.59563829	0.277	0.012	0	23.08333333	PTM_cells	SERPINE1
PPM1G	0	0.595592258	0.996	0.793	0	1.255989912	spermatocyte	PPM1G
MT.ND4L2	8.10E-36	0.595453798	0.292	0.167	4.97E-31	1.75E+00	Leydig_cells	MT.ND4L
DCAF7	0	0.595438724	0.876	0.279	0	3.139784946	spermatocyte	DCAF7
TBX18.AS1	0	0.59538505	0.259	0.066	0	3.924242424	spermatid	TBX18.AS1
TIFA	6.24E-152	0.595332181	0.305	0.04	3.83E-147	7.63E+00	endotheliocyte	TIFA
NPC22	2.57E-75	0.595283046	0.605	0.439	1.58E-70	1.38E+00	Leydig_cells	NPC2
CCDC37-AS1	4.16E-231	0.595254683	0.378	0.221	2.55E-226	1.71E+00	spermatid	CCDC37-AS1
SELM	6.62E-80	0.595246547	0.568	0.213	4.06E-75	2.67E+00	endotheliocyte	SELM
COX6A1	0	0.595217467	0.935	0.541	0	1.728280961	spermatocyte	COX6A1
ITPRIP	3.40E-52	0.595213935	0.325	0.106	2.08E-47	3.07E+00	endotheliocyte	ITPRIP
CLK1	4.33E-18	0.595200184	0.313	0.157	2.65E-13	1.99E+00	macrophages	CLK1
CTNNA1	1.87E-67	0.595198589	0.459	0.164	1.15E-62	2.80E+00	endotheliocyte	CTNNA1
AZIN1-AS1	4.73E-213	0.595139151	0.38	0.245	2.90E-208	1.55E+00	spermatid	AZIN1-AS1
FTLP3	1.02E-114	0.595007834	0.148	0.01	6.27E-110	1.48E+01	macrophages	FTLP3
VIT	0	0.594856075	0.269	0.02	0	13.45	Leydig_cells	VIT
MAGEH1	2.94E-275	0.594801599	0.232	0.039	1.80E-270	5.95E+00	Sertoli_cells	MAGEH1
RAD50	0	0.594744694	0.584	0.306	0	1.908496732	spermatogonia	RAD50
ANXA21	8.24E-18	0.5945943	0.471	0.295	5.05E-13	1.60E+00	macrophages	ANXA2
VPS29	2.93E-278	0.594510082	0.496	0.3	1.80E-273	1.65E+00	spermatogonia	VPS29
EMP23	1.19E-93	0.594481793	0.524	0.184	7.28E-89	2.85E+00	VSM_cells	EMP2
ACTR10	0	0.594481229	0.497	0.166	0	2.993975904	spermatogonia	ACTR10
GMNN	0	0.594251715	0.836	0.254	0	3.291338583	spermatocyte	GMNN
CCDC38	0	0.59404526	0.751	0.16	0	4.69375	spermatocyte	CCDC38
RP11.219E7.2	0	0.59401924	0.228	0.02	0	11.4	spermatid	RP11.219E7.2

RPS231	7.72E-40	0.594006822	0.916	0.829	4.74E-35	1.10E+00	macrophages	RPS23
RHOA1	1.64E-83	0.593975225	0.712	0.539	1.01E-78	1.32E+00	Leydig_cells	RHOA
COL16A1	3.23E-233	0.593784898	0.398	0.109	1.98E-228	3.65E+00	PTM_cells	COL16A1
RP11-389G6.5	0	0.593735844	0.542	0.162	0	3.345679012	spermatocyte	RP11-389G6.5
ILF2	0	0.593707406	0.714	0.449	0	1.590200445	spermatogonia	ILF2
RHOH	1.10E-84	0.593605466	0.211	0.004	6.73E-80	5.28E+01	T_cells	RHOH
TEX264	0	0.593570978	0.775	0.312	0	2.483974359	spermatocyte	TEX264
ESF1	0	0.593548014	0.583	0.349	0	1.670487106	spermatogonia	ESF1
TMSB4XP4	0.000491413	0.593403445	0.079	0.014	1	5.642857143	T_cells	TMSB4XP4
CALCOCO2	0	0.59339426	0.703	0.64	0	1.0984375	spermatid	CALCOCO2
OPLAH	0	0.593346975	0.51	0.184	0	2.77173913	spermatid	OPLAH
IL18RAP	7.40E-41	0.593241308	0.053	0.001	4.54E-36	5.30E+01	T_cells	IL18RAP
CREM	0	0.593098692	0.991	0.691	0	1.434153401	spermatocyte	CREM
MDH2	0	0.593002876	0.894	0.414	0	2.15942029	spermatocyte	MDH2
PRKAR1A	0	0.592797538	0.964	0.54	0	1.785185185	spermatocyte	PRKAR1A
WBP5	8.34E-234	0.592688511	0.382	0.086	5.12E-229	4.44E+00	Leydig_cells	WBP5
RBM36	0.000754585	0.592609245	0.421	0.228	1	1.846491228	T_cells	RBM3
MDC1	0	0.592578633	0.418	0.141	0	2.964539007	spermatogonia	MDC1
NOP10	5.46E-41	0.592554393	0.235	0.136	3.35E-36	1.73E+00	Sertoli_cells	NOP10
SRSF11	0	0.592423576	0.711	0.514	0	1.383268482	spermatogonia	SRSF11
TNFAIP6	0	0.59239038	0.489	0.252	0	1.94047619	spermatid	TNFAIP6
CD993	1.78E-118	0.592379967	0.626	0.189	1.09E-113	3.31E+00	VSM_cells	CD99
SMCHD1	8.02E-208	0.592253904	0.503	0.335	4.92E-203	1.50E+00	spermatogonia	SMCHD1
PTGDR	1.37E-297	0.592094113	0.211	0.001	8.40E-293	2.11E+02	T_cells	PTGDR
C5orf52	0	0.592033458	0.526	0.289	0	1.820069204	spermatid	C5orf52
SNAPC1	0	0.591772084	0.522	0.305	0	1.71147541	spermatogonia	SNAPC1
TPT15	1.19E-247	0.59174058	0.901	0.856	7.29E-243	1.05E+00	Sertoli_cells	TPT1
SYTL2	2.23E-08	0.591721828	0.211	0.04	0.001368334	5.275	T_cells	SYTL2
CMIP	6.78E-51	0.59167535	0.457	0.19	4.16E-46	2.41E+00	endotheliocyte	CMIP
ODF3L1	0	0.591454752	0.581	0.117	0	4.965811966	spermatocyte	ODF3L1
IDE	0	0.591333343	0.762	0.18	0	4.233333333	spermatocyte	IDE
DDIT4	1.65E-87	0.591317638	0.362	0.083	1.01E-82	4.36E+00	endotheliocyte	DDIT4
CNN1	1.95E-51	0.591261667	0.628	0.346	1.20E-46	1.82E+00	VSM_cells	CNN1
NDNF	0	0.591252212	0.447	0.15	0	2.98	spermatid	NDNF
DNAL4	0	0.591238288	0.889	0.312	0	2.849358974	spermatocyte	DNAL4
PGAM1	1.06E-201	0.591137958	0.56	0.227	6.50E-197	2.47E+00	PTM_cells	PGAM1
HMOX2	0	0.590973177	0.706	0.585	0	1.206837607	spermatid	HMOX2
RCN21	0.000785453	0.590936282	0.56	0.392	1	1.428571429	mastocyte	RCN2
INPP4B	0	0.590822543	0.498	0.161	0	3.093167702	spermatid	INPP4B
RASSF2	4.07E-84	0.590740192	0.267	0.098	2.50E-79	2.72E+00	Leydig_cells	RASSF2
ARHGAP301	1.78E-33	0.59072607	0.158	0.006	1.09E-28	2.63E+01	T_cells	ARHGAP30
HCAR2	3.01E-67	0.590628578	0.185	0.025	1.85E-62	7.40E+00	macrophages	HCAR2
RNF148	0	0.590578942	0.482	0.234	0	2.05982906	spermatid	RNF148
RPL301	1.84E-37	0.590522353	0.926	0.878	1.13E-32	1.05E+00	macrophages	RPL30
GUCA1A	0	0.590333318	0.432	0.089	0	4.853932584	spermatid	GUCA1A
RPL191	5.50E-124	0.590302932	0.906	0.836	3.38E-119	1.08E+00	Leydig_cells	RPL19
CDK5RAP3	0	0.590283754	0.762	0.251	0	3.035856574	spermatocyte	CDK5RAP3
RPS113	2.49E-204	0.59020762	0.908	0.818	1.53E-199	1.11E+00	PTM_cells	RPS11
RBM44	0	0.58999452	0.432	0.101	0	4.277227723	spermatogonia	RBM44
C7orf50	3.93E-49	0.589915349	0.239	0.132	2.41E-44	1.81E+00	Sertoli_cells	C7orf50
SIN3B	2.61E-65	0.589900241	0.329	0.161	1.60E-60	2.04E+00	Leydig_cells	SIN3B
FAM26F	2.63E-34	0.589645556	0.259	0.078	1.61E-29	3.32E+00	macrophages	FAM26F
HMGB11	1.38E-71	0.589632343	0.859	0.548	8.47E-67	1.57E+00	endotheliocyte	HMGB1
LEPR1	0	0.589628503	0.234	0.024	0	9.75	Leydig_cells	LEPR
APOBEC3C1	2.28E-08	0.589525989	0.263	0.057	0.001399901	4.614035088	T_cells	APOBEC3C
SRSF10	0	0.589485021	0.675	0.445	0	1.516853933	spermatogonia	SRSF10
GSTO2	0	0.589427685	0.539	0.325	0	1.658461538	spermatid	GSTO2
ZNF345	0	0.589355984	0.483	0.192	0	2.515625	spermatid	ZNF345
LINC01364	0	0.589340654	0.458	0.127	0	3.606299213	spermatid	LINC01364
HSPA5	2.39E-192	0.589327926	0.714	0.586	1.47E-187	1.22E+00	spermatogonia	HSPA5
LY86	7.08E-236	0.589258471	0.202	0.008	4.34E-231	2.53E+01	macrophages	LY86
RUNX1T1	2.56E-132	0.589254256	0.387	0.071	1.57E-127	5.45E+00	endotheliocyte	RUNX1T1
PXYLP1	0	0.589195356	0.777	0.228	0	3.407894737	spermatocyte	PXYLP1
IFI162	9.18E-273	0.589127113	0.371	0.073	5.63E-268	5.08E+00	Leydig_cells	IFI16
FERMT21	1.27E-52	0.588950308	0.474	0.227	7.77E-48	2.09E+00	VSM_cells	FERMT2
HNRNPA11	1.81E-17	0.588932456	0.673	0.605	1.11E-12	1.11E+00	macrophages	HNRNPA1
FGFBP2	2.84E-20	0.588900452	0.132	0.007	1.74E-15	1.89E+01	T_cells	FGFBP2
DCBLD2	3.09E-161	0.588886635	0.246	0.07	1.89E-156	3.51E+00	Sertoli_cells	DCBLD2
AKR1C3	4.06E-214	0.588742477	0.382	0.044	2.49E-209	8.68E+00	endotheliocyte	AKR1C3
TUBA1A	7.50E-91	0.588696796	0.608	0.198	4.60E-86	3.07E+00	endotheliocyte	TUBA1A
MYC	2.63E-150	0.588664301	0.407	0.066	1.61E-145	6.17E+00	endotheliocyte	MYC
SERTAD11	3.17E-26	0.588584167	0.232	0.076	1.95E-21	3.05E+00	macrophages	SERTAD1
ADI11	1.83E-87	0.588525335	0.425	0.133	1.12E-82	3.20E+00	VSM_cells	ADI1
ZBTB7A	6.27E-06	0.588359683	0.263	0.08	0.384476592	3.2875	T_cells	ZBTB7A
SOBP	0	0.588317739	0.757	0.186	0	4.069892473	spermatocyte	SOBP

ARHGAP31	0	0.588195161	0.342	0.014	0	24.42857143	endotheliocyte	ARHGAP31
ORMDL3	0	0.588052896	0.537	0.257	0	2.089494163	spermatid	ORMDL3
COL15A1	1.89E-43	0.588052877	0.355	0.127	1.16E-38	2.80E+00	endotheliocyte	COL15A1
FAM46A	1.65E-27	0.587982158	0.215	0.064	1.01E-22	3.36E+00	macrophages	FAM46A
RPL132	2.13E-214	0.587976987	0.988	0.955	1.30E-209	1.03E+00	PTM_cells	RPL13
LEPROT2	4.72E-244	0.587890783	0.495	0.157	2.90E-239	3.15E+00	PTM_cells	LEPROT
RPL6P271	2.03E-12	0.587883844	0.218	0.165	1.25E-07	1.32E+00	Leydig_cells	RPL6P27
ELL	0	0.587776282	0.517	0.22	0	2.35	spermatid	ELL
PIP5K1B	0	0.587727892	0.717	0.123	0	5.829268293	spermatocyte	PIP5K1B
DDX1	0	0.587667335	0.55	0.257	0	2.140077821	spermatogonia	DDX1
NDUFS5	2.88E-121	0.587600859	0.644	0.44	1.77E-116	1.46E+00	PTM_cells	NDUFS5
ELF12	0.000362413	0.587560306	0.26	0.112	1	2.321428571	mastocyte	ELF1
HEXIM12	0	0.587514407	0.432	0.088	0	4.909090909	PTM_cells	HEXIM1
CDC422	4.62E-15	0.587432503	0.539	0.416	2.84E-10	1.30E+00	macrophages	CDC42
ACTG12	0.001330781	0.587342595	0.868	0.795	1	1.091823899	T_cells	ACTG1
COBLL11	0	0.587264668	0.296	0.019	0	15.57894737	VSM_cells	COBLL1
RASSF5	4.36E-100	0.58720787	0.158	0.013	2.67E-95	1.22E+01	macrophages	RASSF5
LARP7	0	0.586996562	0.524	0.191	0	2.743455497	spermatogonia	LARP7
BSG	0	0.586988758	0.804	0.653	0	1.231240429	spermatogonia	BSG
VCP	0	0.586859333	0.669	0.389	0	1.719794344	spermatogonia	VCP
LINC00911	0	0.586655797	0.531	0.108	0	4.916666667	spermatocyte	LINC00911
CLIP4	0	0.586583558	0.484	0.197	0	2.456852792	spermatid	CLIP4
TPM41	2.40E-96	0.586562749	0.457	0.228	1.47E-91	2.00E+00	Leydig_cells	TPM4
TSTD1	2.22E-15	0.586537728	0.238	0.188	1.36E-10	1.27E+00	Sertoli_cells	TSTD1
GAGE1	0	0.586526036	0.267	0.011	0	24.27272727	spermatogonia	GAGE1
C17orf80	0	0.586432109	0.877	0.3	0	2.923333333	spermatocyte	C17orf80
HACD3	0	0.586338028	0.643	0.443	0	1.451467269	spermatogonia	HACD3
COX7B1	3.01E-29	0.586162215	0.238	0.154	1.84E-24	1.55E+00	Sertoli_cells	COX7B
CSRNP12	1.66E-46	0.586121242	0.32	0.178	1.02E-41	1.80E+00	Leydig_cells	CSRNP1
TM2D1	0	0.586042977	0.485	0.163	0	2.975460123	spermatogonia	TM2D1
DDX17	0	0.586041096	0.665	0.458	0	1.451965066	spermatogonia	DDX17
RPS4Y14	4.91E-80	0.585875903	0.45	0.263	3.01E-75	1.71E+00	Sertoli_cells	RPS4Y1
GNB1	0	0.585870751	0.583	0.304	0	1.917763158	spermatogonia	GNB1
TCF21	0	0.585781497	0.354	0.014	0	25.28571429	PTM_cells	TCF21
VAMP2	0	0.585752095	0.599	0.28	0	2.139285714	spermatogonia	VAMP2
FSTL3	3.35E-268	0.585751658	0.212	0.034	2.05E-263	6.24E+00	Sertoli_cells	FSTL3
DDX20	0	0.585726125	0.745	0.553	0	1.347197107	spermatid	DDX20
IQUB	0	0.585529872	0.913	0.351	0	2.601139601	spermatocyte	IQUB
SH2B3	4.95E-14	0.585478182	0.263	0.138	3.04E-09	1.91E+00	macrophages	SH2B3
SUSD5	0	0.58536214	0.3	0.015	0	20	VSM_cells	SUSD5
VAMP51	0	0.58528425	0.408	0.058	0	7.034482759	PTM_cells	VAMP5
PEA151	1.94E-10	0.585283348	0.368	0.387	1.19E-05	9.51E-01	Sertoli_cells	PEA15
FKBP5	3.66E-80	0.585157523	0.283	0.137	2.24E-75	2.07E+00	Sertoli_cells	FKBP5
CRIM1	1.02E-167	0.585116789	0.352	0.047	6.27E-163	7.49E+00	endotheliocyte	CRIM1
RNF213	1.01E-37	0.585003297	0.212	0.051	6.23E-33	4.16E+00	macrophages	RNF213
MGLL	5.13E-148	0.584986312	0.395	0.066	3.15E-143	5.98E+00	endotheliocyte	MGLL
ITPKB	1.52E-200	0.584943446	0.295	0.029	9.32E-196	1.02E+01	endotheliocyte	ITPKB
FAM49B1	5.51E-39	0.584871297	0.247	0.151	3.38E-34	1.64E+00	Sertoli_cells	FAM49B
NNMT	0	0.584796526	0.248	0.009	0	27.55555556	endotheliocyte	NNMT
VCAN	1.84E-113	0.584742955	0.241	0.066	1.13E-108	3.65E+00	Leydig_cells	VCAN
GLG1	0	0.584674714	0.608	0.365	0	1.665753425	spermatogonia	GLG1
ATF42	5.53E-51	0.584659606	0.494	0.353	3.39E-46	1.40E+00	Leydig_cells	ATF4
DHX9	0	0.584618768	0.576	0.257	0	2.241245136	spermatogonia	DHX9
MAGED23	1.10E-127	0.584340657	0.33	0.128	6.75E-123	2.58E+00	Sertoli_cells	MAGED2
SPATA33	0	0.584314873	0.824	0.686	0	1.201166181	spermatid	SPATA33
NCKAP5L	0	0.584300983	0.363	0.045	0	8.066666667	PTM_cells	NCKAP5L
AC016739.2	8.25E-22	0.584253231	0.205	0.07	5.06E-17	2.93E+00	macrophages	AC016739.2
IFIT2	0	0.584238208	0.246	0.01	0	24.6	endotheliocyte	IFIT2
RPL363	3.94E-66	0.584154096	0.848	0.7	2.42E-61	1.21E+00	VSM_cells	RPL36
TAX1BP1	0	0.584091817	0.718	0.515	0	1.394174757	spermatogonia	TAX1BP1
DMD	0	0.584062933	0.386	0.078	0	4.948717949	PTM_cells	DMD
NPC2	0	0.58385438	0.64	0.392	0	1.632653061	spermatogonia	NPC2
PLSCR11	2.98E-45	0.583830712	0.222	0.048	1.83E-40	4.63E+00	macrophages	PLSCR1
ITGB3BP	0	0.583825942	0.797	0.277	0	2.877256318	spermatocyte	ITGB3BP
NFKB2	8.09E-47	0.5838062	0.195	0.037	4.96E-42	5.27E+00	macrophages	NFKB2
CLMP	0	0.583736355	0.342	0.011	0	31.09090909	PTM_cells	CLMP
APOBEC3G	2.73E-27	0.583726538	0.238	0.162	1.67E-22	1.47E+00	Sertoli_cells	APOBEC3G
CRYZL1	0	0.583724081	0.777	0.228	0	3.407894737	spermatocyte	CRYZL1
MRPS6	2.61E-14	0.583698693	0.347	0.332	1.60E-09	1.05E+00	Sertoli_cells	MRPS6
HLA-E2	1.11E-153	0.58365248	0.425	0.083	6.79E-149	5.12E+00	VSM_cells	HLA-E
ORMDL1	0	0.583610661	0.563	0.324	0	1.737654321	spermatogonia	ORMDL1
FOSL2	8.06E-157	0.583592025	0.352	0.051	4.95E-152	6.90E+00	endotheliocyte	FOSL2
PRMT1	0	0.583485569	0.546	0.142	0	3.845070423	spermatogonia	PRMT1
GRASP	0	0.583463133	0.34	0.018	0	18.88888889	endotheliocyte	GRASP
RP11-498B4.5	7.18E-222	0.583428368	0.348	0.194	4.41E-217	1.79E+00	spermatid	RP11-498B4.5

ACADM	0	0.583390805	0.53	0.285	0	1.859649123	spermatogonia	ACADM
TCEA1	0	0.583378418	0.57	0.266	0	2.142857143	spermatogonia	TCEA1
MFAP41	4.22E-150	0.583320316	0.33	0.051	2.59E-145	6.47E+00	VSM_cells	MFAP4
LSM5	0	0.583154589	0.436	0.146	0	2.98630137	spermatogonia	LSM5
GPC1	6.66E-282	0.583121013	0.227	0.036	4.09E-277	6.31E+00	Sertoli_cells	GPC1
HSPG21	1.90E-185	0.583089445	0.372	0.055	1.16E-180	6.76E+00	VSM_cells	HSPG2
CDCA8	0	0.583024425	0.429	0.084	0	5.107142857	spermatogonia	CDCA8
CLTB	5.03E-53	0.582915852	0.252	0.136	3.09E-48	1.85E+00	Sertoli_cells	CLTB
BST21	1.09E-37	0.582841588	0.35	0.112	6.67E-33	3.13E+00	macrophages	BST2
PPP3CA	3.36E-141	0.582772411	0.414	0.075	2.06E-136	5.52E+00	endotheliocyte	PPP3CA
KDM2A	0	0.582743753	0.524	0.223	0	2.349775785	spermatogonia	KDM2A
LIN7A	0	0.582571213	0.785	0.191	0	4.109947644	spermatocyte	LIN7A
TJP1	0	0.582486043	0.472	0.224	0	2.107142857	spermatogonia	TJP1
LINC01227	0	0.582473445	0.412	0.058	0	7.103448276	spermatid	LINC01227
GLRX1	1.11E-11	0.582424225	0.184	0.023	6.80E-07	8.00E+00	T_cells	GLRX
MBD1	0	0.582348158	0.815	0.298	0	2.734899329	spermatocyte	MBD1
LINC00494	0	0.582292123	0.424	0.068	0	6.235294118	spermatid	LINC00494
TSPAN41	7.38E-264	0.582108999	0.338	0.064	4.53E-259	5.28E+00	Leydig_cells	TSPAN4
RWDD2A	0	0.581941746	0.741	0.16	0	4.63125	spermatocyte	RWDD2A
BOD1L2	0	0.581907366	0.995	0.836	0	1.190191388	spermatocyte	BOD1L2
RANBP9	0	0.581778152	0.887	0.419	0	2.116945107	spermatocyte	RANBP9
TMEM247	0	0.581767774	0.631	0.434	0	1.453917051	spermatid	TMEM247
OARD1	0	0.581565362	0.661	0.475	0	1.391578947	spermatogonia	OARD1
FAM96B	0	0.581488886	0.601	0.395	0	1.521518987	spermatogonia	FAM96B
DPY19L2	1.05E-06	0.581433264	0.66	0.412	0.064382308	1.601941748	mastocyte	DPY19L2
FIP1L1	0	0.581314937	0.565	0.253	0	2.233201581	spermatogonia	FIP1L1
RPS134	2.12E-05	0.581303839	0.868	0.841	1	1.032104637	T_cells	RPS13
LIN7B	0	0.581221959	0.241	0.024	0	10.04166667	spermatogonia	LIN7B
DNAJC27	0	0.581199596	0.805	0.26	0	3.096153846	spermatocyte	DNAJC27
ACTR6	0	0.581157221	0.845	0.295	0	2.86440678	spermatocyte	ACTR6
LPAR2	0	0.581080589	0.224	0.013	0	17.23076923	Sertoli_cells	LPAR2
ITM2A2	0	0.58095668	0.453	0.059	0	7.677966102	PTM_cells	ITM2A
DDAH22	3.29E-70	0.580858394	0.452	0.171	2.02E-65	2.64E+00	VSM_cells	DDAH2
SDHB	0	0.580713384	0.898	0.362	0	2.480662983	spermatocyte	SDHB
IGFBP42	0	0.580710955	0.409	0.071	0	5.76056338	PTM_cells	IGFBP4
CBX6	2.47E-185	0.580710404	0.289	0.064	1.51E-180	4.52E+00	Leydig_cells	CBX6
PLIN21	7.60E-146	0.580705289	0.247	0.075	4.66E-141	3.29E+00	Sertoli_cells	PLIN2
PSME14	2.41E-134	0.5806671	0.427	0.092	1.48E-129	4.64E+00	VSM_cells	PSME1
MSTO1	0	0.580583203	0.52	0.306	0	1.699346405	spermatid	MSTO1
MT-ND45	1.94E-20	0.580485225	0.48	0.415	1.19E-15	1.16E+00	Sertoli_cells	MT-ND4
FNBP1	2.70E-21	0.580356927	0.276	0.114	1.66E-16	2.42E+00	macrophages	FNBP1
RAP1A	0.008084213	0.580194077	0.289	0.168	1	1.720238095	T_cells	RAP1A
CSF3	0	0.580136035	0.176	0.004	0	44	endotheliocyte	CSF3
HAGH	0	0.580017574	0.903	0.411	0	2.197080292	spermatocyte	HAGH
NOP56	0	0.579839423	0.503	0.235	0	2.140425532	spermatogonia	NOP56
PKP4	2.97E-37	0.579597052	0.412	0.191	1.82E-32	2.16E+00	endotheliocyte	PKP4
SNX10	1.67E-64	0.579549802	0.209	0.032	1.02E-59	6.53E+00	macrophages	SNX10
DHRS71	1.44E-10	0.579530718	0.289	0.057	8.84E-06	5.07E+00	T_cells	DHRS7
RPL292	1.44E-199	0.579385465	0.916	0.844	8.81E-195	1.09E+00	PTM_cells	RPL29
TACC13	4.74E-207	0.579359408	0.534	0.194	2.91E-202	2.75E+00	PTM_cells	TACC1
RPL6P27	5.84E-09	0.579348969	0.266	0.166	0.000358105	1.602409639	macrophages	RPL6P27
GPX3	2.09E-142	0.579348798	0.281	0.04	1.28E-137	7.03E+00	VSM_cells	GPX3
USPL1	0	0.579197317	0.503	0.228	0	2.206140351	spermatid	USPL1
NTRK2	0	0.579196426	0.259	0.026	0	9.961538462	Leydig_cells	NTRK2
PGD	1.68E-43	0.579184537	0.292	0.191	1.03E-38	1.53E+00	Sertoli_cells	PGD
ABHD8	0	0.579068946	0.835	0.241	0	3.46473029	spermatocyte	ABHD8
CCT8L2	0	0.579021557	0.473	0.156	0	3.032051282	spermatid	CCT8L2
MIDN5	6.91E-34	0.578925439	0.283	0.194	4.24E-29	1.46E+00	Sertoli_cells	MIDN
WSB1	2.96E-39	0.57885034	0.635	0.423	1.81E-34	1.50E+00	endotheliocyte	WSB1
SPON2	0	0.578818144	0.203	0.012	0	16.91666667	Leydig_cells	SPON2
REC114	0	0.578813194	0.875	0.3	0	2.916666667	spermatocyte	REC114
DDX43	0	0.578665149	0.48	0.166	0	2.891566265	spermatogonia	DDX43
BOC	0	0.578562081	0.266	0.027	0	9.851851852	Leydig_cells	BOC
OVOS21	0.002386217	0.578546697	0.48	0.316	1	1.518987342	mastocyte	OVOS2
MRC21	1.14E-246	0.578544671	0.482	0.143	7.02E-242	3.37E+00	PTM_cells	MRC2
ZMYND8	5.61E-122	0.578527709	0.264	0.096	3.44E-117	2.75E+00	Sertoli_cells	ZMYND8
COX6C	0	0.578350493	0.982	0.746	0	1.316353887	spermatocyte	COX6C
TRAFD1	0	0.578265909	0.409	0.085	0	4.811764706	spermatogonia	TRAFD1
RPL310	1.24E-06	0.578252736	0.947	0.924	0.076331471	1.024891775	T_cells	RPL3
SERPING1	1.04E-126	0.578134436	0.499	0.112	6.36E-122	4.46E+00	endotheliocyte	SERPING1
C4orf22	0	0.578058544	0.795	0.2	0	3.975	spermatocyte	C4orf22
BLZF1	0	0.578047592	0.828	0.262	0	3.160305344	spermatocyte	BLZF1
DDIT43	1.12E-79	0.577974407	0.326	0.083	6.90E-75	3.93E+00	VSM_cells	DDIT4
LAMB21	1.80E-285	0.577954207	0.381	0.081	1.10E-280	4.70E+00	PTM_cells	LAMB2
FAM53C	0	0.577850514	0.634	0.418	0	1.516746411	spermatid	FAM53C

EZR1	1.02E-86	0.577787922	0.46	0.24	6.23E-82	1.92E+00	Leydig_cells	EZR
RPS54	0.000845721	0.577773245	0.816	0.818	1	0.997555012	T_cells	RPS5
C11orf94	0	0.577737328	0.461	0.234	0	1.97008547	spermatid	C11orf94
FUCA2	1.03E-249	0.577719167	0.292	0.052	6.32E-245	5.62E+00	Leydig_cells	FUCA2
STAT32	4.34E-38	0.577642331	0.463	0.264	2.66E-33	1.75E+00	VSM_cells	STAT3
ACOT13	7.48E-228	0.577638647	0.62	0.562	4.59E-223	1.10E+00	spermatid	ACOT13
USP11	2.59E-166	0.57749134	0.326	0.187	1.59E-161	1.74E+00	spermatogonia	USP11
PHF2	0	0.577233039	0.444	0.096	0	4.625	spermatid	PHF2
PLP2	3.83E-125	0.577211707	0.387	0.085	2.35E-120	4.55E+00	VSM_cells	PLP2
C2orf16	0	0.577204706	0.368	0.127	0	2.897637795	spermatid	C2orf16
BBX	0	0.577180053	0.727	0.569	0	1.277680141	spermatid	BBX
MAGI1	0	0.577145398	0.79	0.183	0	4.316939891	spermatocyte	MAGI1
FDFT1	0	0.577112718	0.93	0.437	0	2.128146453	spermatocyte	FDFT1
HLA-F	3.61E-172	0.577056238	0.367	0.053	2.22E-167	6.92E+00	endotheliocyte	HLA-F
RYK	0	0.577054277	0.437	0.154	0	2.837662338	spermatogonia	RYK
PLCD1	5.61E-291	0.577043987	0.207	0.029	3.44E-286	7.14E+00	Sertoli_cells	PLCD1
MT-CO11	4.73E-50	0.576980354	0.739	0.449	2.90E-45	1.65E+00	endotheliocyte	MT-CO1
C15orf48	0	0.576926202	0.897	0.405	0	2.214814815	spermatocyte	C15orf48
DPYSL2	1.69E-213	0.576919156	0.35	0.081	1.04E-208	4.32E+00	Leydig_cells	DPYSL2
PDCD5	0	0.576867819	0.743	0.563	0	1.319715808	spermatogonia	PDCD5
HSPA9	2.30E-43	0.576819496	0.326	0.223	1.41E-38	1.46E+00	Sertoli_cells	HSPA9
CINP	0	0.57676965	0.776	0.223	0	3.479820628	spermatocyte	CINP
TSC22D33	4.81E-244	0.576643144	0.454	0.132	2.95E-239	3.44E+00	PTM_cells	TSC22D3
DTD1	0	0.576488417	0.505	0.234	0	2.158119658	spermatogonia	DTD1
CCDC187	0	0.576481997	0.401	0.066	0	6.075757576	spermatid	CCDC187
HAGLR	0	0.576427733	0.91	0.351	0	2.592592593	spermatocyte	HAGLR
FSCB	0	0.576418415	0.536	0.214	0	2.504672897	spermatid	FSCB
TIMP13	9.03E-152	0.576358919	0.397	0.153	5.54E-147	2.59E+00	Sertoli_cells	TIMP1
RDX	0	0.576294869	0.52	0.208	0	2.5	spermatogonia	RDX
ADH52	3.36E-12	0.576272955	0.316	0.298	2.06E-07	1.06E+00	Sertoli_cells	ADH5
CRNDE	0	0.576199935	0.963	0.554	0	1.738267148	spermatocyte	CRNDE
SPATA9	0	0.576037842	0.586	0.272	0	2.154411765	spermatid	SPATA9
MYL12A2	5.59E-58	0.575963003	0.615	0.324	3.43E-53	1.90E+00	VSM_cells	MYL12A
PGM51	1.69E-241	0.575818211	0.313	0.031	1.04E-236	1.01E+01	VSM_cells	PGM5
ITIH4	0	0.575630622	0.411	0.066	0	6.227272727	spermatid	ITIH4
AHRR	0	0.57558876	0.822	0.225	0	3.653333333	spermatocyte	AHRR
CCL22	1.12E-149	0.575490579	0.206	0.039	6.86E-145	5.28E+00	Leydig_cells	CCL2
RPL15	1.24E-59	0.57528831	0.973	0.902	7.59E-55	1.08E+00	endotheliocyte	RPL15
CPTP	0	0.575281114	0.836	0.255	0	3.278431373	spermatocyte	CPTP
SMARCB1	0	0.57527723	0.508	0.273	0	1.860805861	spermatogonia	SMARCB1
ELN	3.14E-87	0.575276721	0.261	0.047	1.93E-82	5.55E+00	endotheliocyte	ELN
PRDX2	6.64E-164	0.575237496	0.543	0.104	4.07E-159	5.22E+00	endotheliocyte	PRDX2
EGR4	7.95E-232	0.57521508	0.185	0.029	4.88E-227	6.38E+00	Sertoli_cells	EGR4
DAD1	0	0.575128882	0.915	0.5	0	1.83	spermatocyte	DAD1
11-Sep	2.30E-260	0.575119721	0.326	0.061	1.41E-255	5.34E+00	Leydig_cells	11-Sep
NUTF2	0	0.575094831	0.507	0.179	0	2.832402235	spermatogonia	NUTF2
SGF29	0	0.575018651	0.529	0.269	0	1.966542751	spermatid	SGF29
ATP6V1G11	2.13E-24	0.574930206	0.513	0.515	1.31E-19	9.96E-01	Sertoli_cells	ATP6V1G1
RPS27L1	2.10E-36	0.574818807	0.537	0.347	1.29E-31	1.55E+00	VSM_cells	RPS27L
ARF4	7.85E-12	0.574663424	0.431	0.482	4.82E-07	8.94E-01	Sertoli_cells	ARF4
PPP1R32	0	0.574421724	0.563	0.261	0	2.157088123	spermatid	PPP1R32
UCHL3	0	0.574253481	0.823	0.313	0	2.629392971	spermatocyte	UCHL3
LOXHD1	0	0.573854771	0.486	0.151	0	3.218543046	spermatid	LOXHD1
RPS218	2.17E-65	0.573675664	0.795	0.521	1.33E-60	1.53E+00	VSM_cells	RPS21
WNK1	0	0.573664499	0.598	0.373	0	1.603217158	spermatogonia	WNK1
EGLN2	0	0.573600786	0.941	0.467	0	2.014989293	spermatocyte	EGLN2
SERPING12	0	0.573599236	0.488	0.098	0	4.979591837	PTM_cells	SERPING1
FBL1	1.45E-38	0.573587899	0.515	0.476	8.91E-34	1.08E+00	Sertoli_cells	FBL
RPL26P37	3.00E-14	0.573587455	0.175	0.071	1.84E-09	2.46E+00	macrophages	RPL26P37
FAM216A	0	0.573355601	0.763	0.249	0	3.064257028	spermatocyte	FAM216A
VKORC11	0	0.573349828	0.451	0.101	0	4.465346535	PTM_cells	VKORC1
ATP5A11	1.19E-27	0.573101571	0.502	0.518	7.28E-23	9.69E-01	Sertoli_cells	ATP5A1
UBE2D2	0	0.573088533	0.974	0.613	0	1.588907015	spermatocyte	UBE2D2
MYL12A1	3.05E-154	0.573000532	0.609	0.314	1.87E-149	1.94E+00	PTM_cells	MYL12A
TACC12	4.03E-99	0.572927685	0.439	0.201	2.47E-94	2.18E+00	Leydig_cells	TACC1
SLC25A33	1.73E-126	0.572912991	0.66	0.428	1.06E-121	1.54E+00	PTM_cells	SLC25A3
PARP14	0	0.572813983	0.342	0.023	0	14.86956522	endotheliocyte	PARP14
TRPV2	1.38E-13	0.572806119	0.132	0.01	8.45E-09	1.32E+01	T_cells	TRPV2
CBLN4	0	0.572765198	0.316	0.003	0	105.3333333	PTM_cells	CBLN4
DNAI2	0	0.572708468	0.693	0.131	0	5.290076336	spermatocyte	DNAI2
ANKRD13A	0	0.572534833	0.914	0.381	0	2.398950131	spermatocyte	ANKRD13A
KLK5	0	0.572409566	0.416	0.062	0	6.709677419	spermatid	KLK5
LDB3	1.25E-86	0.572281774	0.304	0.074	7.66E-82	4.11E+00	VSM_cells	LDB3
PPP1R2	0	0.572194802	0.909	0.463	0	1.963282937	spermatocyte	PPP1R2
ROCK2	3.85E-79	0.572188696	0.452	0.156	2.36E-74	2.90E+00	VSM_cells	ROCK2

C11orf42	0	0.572164501	0.419	0.065	0	6.446153846	spermatid	C11orf42
LPCAT2	4.56E-43	0.572031452	0.242	0.058	2.80E-38	4.17E+00	macrophages	LPCAT2
BACH1	0	0.571756741	0.492	0.199	0	2.472361809	spermatid	BACH1
MGST1	3.66E-258	0.571699248	0.313	0.065	2.25E-253	4.82E+00	PTM_cells	MGST1
HEXIM13	5.76E-132	0.571682634	0.271	0.094	3.53E-127	2.88E+00	Sertoli_cells	HEXIM1
MACF1	8.74E-41	0.571590726	0.499	0.25	5.36E-36	2.00E+00	endotheliocyte	MACF1
ATP5F1	0	0.571524909	0.94	0.515	0	1.825242718	spermatocyte	ATP5F1
RCAN3	3.30E-14	0.571239435	0.211	0.024	2.02E-09	8.79E+00	T_cells	RCAN3
CPVL	0	0.57086748	0.359	0.15	0	2.393333333	spermatogonia	CPVL
MOV10	6.65E-254	0.570843664	0.227	0.041	4.08E-249	5.54E+00	Sertoli_cells	MOV10
ALDH1A31	0	0.570841598	0.343	0.039	0	8.794871795	PTM_cells	ALDH1A3
GNPNAT1	0	0.570756224	0.707	0.142	0	4.978873239	spermatocyte	GNPNAT1
FRY	7.98E-113	0.570628491	0.298	0.057	4.90E-108	5.23E+00	VSM_cells	FRY
GUCY1A2	1.01E-189	0.570239901	0.241	0.045	6.21E-185	5.36E+00	Leydig_cells	GUCY1A2
TMEM98	1.18E-141	0.570147175	0.355	0.115	7.23E-137	3.09E+00	Leydig_cells	TMEM98
FZD1	6.18E-81	0.5700498	0.202	0.025	3.79E-76	8.08E+00	macrophages	FZD1
MPHOSPH8	0	0.570010756	0.651	0.429	0	1.517482517	spermatogonia	MPHOSPH8
ST6GALNAC1	0	0.570001826	0.323	0.003	0	107.6666667	endotheliocyte	ST6GALNAC1
PTPRM	3.84E-59	0.569999891	0.407	0.144	2.36E-54	2.83E+00	endotheliocyte	PTPRM
SNED11	0	0.569924942	0.343	0.046	0	7.456521739	PTM_cells	SNED1
HSP90B11	4.22E-119	0.569916313	0.811	0.598	2.59E-114	1.36E+00	Leydig_cells	HSP90B1
RAC13	9.06E-91	0.569854123	0.59	0.371	5.56E-86	1.59E+00	Leydig_cells	RAC1
DDX6	0	0.569839743	0.506	0.148	0	3.418918919	spermatogonia	DDX6
MED28	0	0.569795556	0.497	0.148	0	3.358108108	spermatogonia	MED28
TUBB2	2.46E-231	0.569684738	0.622	0.232	1.51E-226	2.68E+00	PTM_cells	TUBB
ATN1	7.21E-58	0.569417599	0.4	0.136	4.42E-53	2.94E+00	endotheliocyte	ATN1
RPL181	1.87E-24	0.569136153	0.737	0.572	1.15E-19	1.29E+00	macrophages	RPL18
TTLL10	0	0.569109626	0.476	0.186	0	2.559139785	spermatid	TTLL10
CSTF1	0	0.569083448	0.65	0.138	0	4.710144928	spermatocyte	CSTF1
CCDC59	0	0.569080489	0.878	0.342	0	2.567251462	spermatocyte	CCDC59
DNAJB11	0	0.569009699	0.457	0.213	0	2.145539906	spermatogonia	DNAJB11
CEP68	5.59E-78	0.568982575	0.362	0.095	3.43E-73	3.81E+00	endotheliocyte	CEP68
RPL311	1.73E-67	0.568911457	0.907	0.836	1.06E-62	1.08E+00	Leydig_cells	RPL31
IGFN1	1.69E-266	0.568848206	0.189	0.019	1.03E-261	9.95E+00	Leydig_cells	IGFN1
Sep-91	0.008370263	0.568803473	0.263	0.139	1	1.892086331	T_cells	09-Sep
TSC22D4	2.58E-283	0.568486878	0.21	0.031	1.58E-278	6.77E+00	Sertoli_cells	TSC22D4
PLXDC21	0	0.568462985	0.372	0.056	0	6.642857143	PTM_cells	PLXDC2
IFI61	6.96E-25	0.56842984	0.266	0.096	4.27E-20	2.77E+00	macrophages	IFI6
WIPF11	0.003985304	0.568413278	0.237	0.111	1	2.135135135	T_cells	WIPF1
BHLHE402	1.38E-187	0.568383862	0.349	0.047	8.45E-183	7.43E+00	VSM_cells	BHLHE40
LRPAP1	2.78E-305	0.568333376	0.614	0.408	1.71E-300	1.50E+00	spermatogonia	LRPAP1
FAM229B	0	0.56832628	0.943	0.805	0	1.171428571	spermatid	FAM229B
NME3	6.47E-297	0.568255584	0.459	0.115	3.97E-292	3.99E+00	PTM_cells	NME3
NROB1	0	0.568226451	0.18	0.007	0	25.71428571	Sertoli_cells	NROB1
CBR1	5.99E-158	0.568069927	0.346	0.104	3.68E-153	3.33E+00	Leydig_cells	CBR1
CCT7	0	0.567996693	0.955	0.537	0	1.77839851	spermatocyte	CCT7
DSC2	3.45E-217	0.567985889	0.162	0.006	2.12E-212	2.70E+01	macrophages	DSC2
RP11-147C23.1	0	0.567980937	0.33	0.108	0	3.055555556	spermatid	RP11-147C23.1
PRKCZ	0	0.567697281	0.535	0.267	0	2.003745318	spermatid	PRKCZ
PICALM	8.98E-07	0.567398095	0.397	0.345	0.055112992	1.150724638	macrophages	PICALM
TMED10	0	0.567306906	0.613	0.337	0	1.818991098	spermatogonia	TMED10
FOXC11	3.80E-171	0.567071249	0.281	0.064	2.33E-166	4.39E+00	Leydig_cells	FOXC1
RPL13AP51	7.63E-10	0.567053907	0.199	0.102	4.68E-05	1.95E+00	macrophages	RPL13AP5
RPS71	2.98E-140	0.566952465	0.888	0.797	1.83E-135	1.11E+00	PTM_cells	RPS7
GOSR2	0	0.566817167	0.54	0.346	0	1.560693642	spermatid	GOSR2
NFIX1	2.07E-157	0.566801899	0.456	0.178	1.27E-152	2.56E+00	PTM_cells	NFIX
RPS52	7.95E-176	0.566800293	0.877	0.815	4.88E-171	1.08E+00	PTM_cells	RPS5
CNIH4	0	0.566661217	0.479	0.16	0	2.99375	spermatogonia	CNIH4
LINC00662	0	0.56657479	0.819	0.312	0	2.625	spermatocyte	LINC00662
COPB1	0	0.566536855	0.523	0.222	0	2.355855856	spermatogonia	COPB1
HOXD8	0	0.566345104	0.754	0.235	0	3.208510638	spermatocyte	HOXD8
AK31	0	0.566291803	0.4	0.058	0	6.896551724	PTM_cells	AK3
LEPROT3	1.91E-80	0.56626068	0.476	0.168	1.17E-75	2.83E+00	VSM_cells	LEPROT
FGF7	0	0.566237132	0.238	0.005	0	47.6	Leydig_cells	FGF7
ODF3L2	0	0.566213656	0.38	0.095	0	4	spermatid	ODF3L2
IDS2	0	0.566087563	0.384	0.055	0	6.981818182	PTM_cells	IDS
PHF14	0	0.56601753	0.491	0.186	0	2.639784946	spermatogonia	PHF14
DEF6	0	0.5659294	0.735	0.163	0	4.509202454	spermatocyte	DEF6
TERF1	0	0.565895345	0.477	0.194	0	2.458762887	spermatogonia	TERF1
TMF1	0	0.565841896	0.725	0.577	0	1.256499133	spermatid	TMF1
CA9	0	0.565759088	0.398	0.123	0	3.235772358	spermatid	CA9
ATP2A3	7.79E-29	0.565691117	0.158	0.007	4.78E-24	2.26E+01	T_cells	ATP2A3
HEXIM11	1.65E-138	0.565578222	0.322	0.096	1.01E-133	3.35E+00	Leydig_cells	HEXIM1
LDLR2	9.92E-110	0.565553555	0.33	0.068	6.08E-105	4.85E+00	VSM_cells	LDLR
CRIP11	2.01E-08	0.565552392	0.158	0.023	0.0012347	6.869565217	T_cells	CRIP1

TOPAZ1	0	0.565551737	0.374	0.052	0	7.192307692	spermatogonia	TOPAZ1
EMC2	0	0.565433931	0.811	0.286	0	2.835664336	spermatocyte	EMC2
SNHG71	1.62E-254	0.565348072	0.535	0.169	9.93E-250	3.17E+00	PTM_cells	SNHG7
HCAR3	1.96E-290	0.565325794	0.152	0.003	1.20E-285	5.07E+01	macrophages	HCAR3
SLC8A1	0	0.565056324	0.277	0.012	0	23.083333333	VSM_cells	SLC8A1
NISCH	9.20E-119	0.564975126	0.523	0.271	5.65E-114	1.93E+00	PTM_cells	NISCH
SNX3	0	0.564953201	0.949	0.575	0	1.650434783	spermatocyte	SNX3
UGCG	2.00E-106	0.564868746	0.32	0.119	1.23E-101	2.69E+00	Leydig_cells	UGCG
SNX14	0	0.56484892	0.821	0.266	0	3.086466165	spermatocyte	SNX14
CAMK2G	1.25E-218	0.56479621	0.334	0.039	7.64E-214	8.56E+00	VSM_cells	CAMK2G
SLC25A65	6.08E-73	0.564741791	0.346	0.187	3.73E-68	1.85E+00	Sertoli_cells	SLC25A6
UNG	0	0.564713657	0.353	0.039	0	9.051282051	spermatogonia	UNG
RPL323	2.63E-71	0.56462568	0.918	0.888	1.61E-66	1.03E+00	VSM_cells	RPL32
MAPK3	0	0.564609105	0.456	0.203	0	2.246305419	spermatid	MAPK3
ZNF703	2.94E-275	0.564582193	0.298	0.024	1.80E-270	1.24E+01	VSM_cells	ZNF703
RHOC1	6.85E-245	0.564576369	0.473	0.139	4.20E-240	3.40E+00	PTM_cells	RHOC
RPS212	2.67E-25	0.56446642	0.71	0.524	1.64E-20	1.35E+00	macrophages	RPS21
MBNL13	2.84E-99	0.564448054	0.391	0.1	1.74E-94	3.91E+00	VSM_cells	MBNL1
PPP1R10	5.71E-07	0.564382707	0.357	0.296	0.035001498	1.206081081	macrophages	PPP1R10
CCL3L31	3.26E-13	0.564301531	0.237	0.032	2.00E-08	7.41E+00	T_cells	CCL3L3
DDAH21	4.90E-204	0.564244397	0.468	0.161	3.01E-199	2.91E+00	PTM_cells	DDAH2
TAF9	0	0.564096908	0.956	0.54	0	1.77037037	spermatocyte	TAF9
RHOQ	1.61E-08	0.564072134	0.215	0.125	0.000987527	1.72	macrophages	RHOQ
EIF4B	5.74E-41	0.564009158	0.715	0.562	3.52E-36	1.27E+00	endotheliocyte	EIF4B
CCDC172	0	0.56381136	0.391	0.168	0	2.327380952	spermatogonia	CCDC172
POLE3	0	0.563792967	0.494	0.133	0	3.714285714	spermatogonia	POLE3
TMOD3	9.87E-57	0.563712792	0.429	0.166	6.05E-52	2.58E+00	endotheliocyte	TMOD3
MT-CO24	6.31E-24	0.563711046	0.495	0.433	3.87E-19	1.14E+00	Sertoli_cells	MT-CO2
RPS91	3.50E-41	0.563647079	0.912	0.837	2.15E-36	1.09E+00	macrophages	RPS9
ARRB21	1.35E-07	0.563632463	0.158	0.025	0.008273142	6.32	T_cells	ARRB2
TUBA1B2	1.29E-70	0.563632369	0.673	0.73	7.90E-66	9.22E-01	Sertoli_cells	TUBA1B
ARMC3	0	0.563507302	0.933	0.337	0	2.768545994	spermatocyte	ARMC3
RSPH6A	0	0.563432501	0.706	0.115	0	6.139130435	spermatocyte	RSPH6A
SMIM19	0	0.563395562	0.848	0.363	0	2.336088154	spermatocyte	SMIM19
AFF4	0	0.563373943	0.556	0.31	0	1.793548387	spermatid	AFF4
C10orf102	0	0.563312104	0.228	0.032	0	7.125	Sertoli_cells	C10orf10
WBP11	0	0.563298217	0.866	0.378	0	2.291005291	spermatocyte	WBP11
SNHG52	2.36E-44	0.563188194	0.187	0.078	1.45E-39	2.40E+00	Leydig_cells	SNHG5
FAM228A	0	0.563119687	0.754	0.179	0	4.212290503	spermatocyte	FAM228A
ILKAP	0	0.563063153	0.457	0.111	0	4.117117117	spermatogonia	ILKAP
SMARCA4	0	0.562898083	0.612	0.374	0	1.636363636	spermatogonia	SMARCA4
SLK	0	0.562880903	0.425	0.114	0	3.728070175	spermatogonia	SLK
TLE1	0	0.562876281	0.256	0.043	0	5.953488372	spermatogonia	TLE1
CLIC13	2.31E-145	0.562835616	0.518	0.252	1.42E-140	2.06E+00	PTM_cells	CLIC1
CMBL	0	0.56275881	0.268	0.031	0	8.64516129	Leydig_cells	CMBL
TEX36.AS1	0	0.562683978	0.219	0.017	0	12.88235294	spermatid	TEX36.AS1
WIPF1	8.09E-20	0.56253461	0.259	0.11	4.96E-15	2.35E+00	macrophages	WIPF1
MAP3K82	1.28E-304	0.562503631	0.326	0.026	7.83E-300	1.25E+01	VSM_cells	MAP3K8
MYO6	5.29E-63	0.562443495	0.275	0.148	3.24E-58	1.86E+00	Sertoli_cells	MYO6
PKDCC1	0	0.562342798	0.373	0.044	0	8.477272727	PTM_cells	PKDCC
NOSIP	0	0.562331134	0.903	0.44	0	2.052272727	spermatocyte	NOSIP
CXCL3	2.65E-214	0.562142391	0.303	0.028	1.63E-209	1.08E+01	endotheliocyte	CXCL3
ID11	4.18E-96	0.562132158	0.319	0.07	2.56E-91	4.56E+00	VSM_cells	ID1
NUCB11	8.36E-121	0.562087682	0.36	0.13	5.13E-116	2.77E+00	Leydig_cells	NUCB1
COL9A3	0	0.56207683	0.348	0.057	0	6.105263158	spermatid	COL9A3
RGS19	5.49E-153	0.561991332	0.182	0.011	3.37E-148	1.65E+01	macrophages	RGS19
ATL3	0	0.561939333	0.57	0.387	0	1.472868217	spermatid	ATL3
CAMK2N11	9.80E-100	0.561836462	0.268	0.05	6.01E-95	5.36E+00	VSM_cells	CAMK2N1
RP1-20208.3	0	0.561788797	0.56	0.245	0	2.285714286	spermatocyte	RP1-20208.3
PTPN1	0.00099087	0.561638039	0.286	0.254	1	1.125984252	macrophages	PTPN1
MT.ND53	8.80E-11	0.561536441	0.34	0.316	5.40E-06	1.08E+00	Sertoli_cells	MT.ND5
DUSP15	0	0.561532858	0.934	0.443	0	2.108352144	spermatocyte	DUSP15
INPP5D	2.05E-39	0.561522942	0.242	0.062	1.25E-34	3.90E+00	macrophages	INPP5D
TMSB103	0	0.561473037	0.835	0.376	0	2.220744681	PTM_cells	TMSB10
ADCY5	0	0.561369734	0.343	0.05	0	6.86	PTM_cells	ADCY5
DPYSL21	3.65E-30	0.561207951	0.273	0.09	2.24E-25	3.03E+00	macrophages	DPYSL2
C14orf39	0	0.561126834	0.369	0.077	0	4.792207792	spermatogonia	C14orf39
PSMB7	0	0.561014925	0.952	0.551	0	1.727767695	spermatocyte	PSMB7
POLR2L	0	0.560950157	0.574	0.373	0	1.538873995	spermatogonia	POLR2L
ARPC51	2.37E-17	0.560699727	0.376	0.35	1.45E-12	1.07E+00	Sertoli_cells	ARPC5
IFI27L2	3.86E-249	0.560660804	0.368	0.079	2.37E-244	4.66E+00	Leydig_cells	IFI27L2
CAND1	0	0.56065395	0.503	0.148	0	3.398648649	spermatogonia	CAND1
SQSTM11	3.24E-143	0.560608923	0.602	0.33	1.99E-138	1.82E+00	PTM_cells	SQSTM1
SNUPN	0	0.560526398	0.797	0.243	0	3.279835391	spermatocyte	SNUPN
BOD1L1	4.81E-29	0.560472166	0.329	0.255	2.95E-24	1.29E+00	Sertoli_cells	BOD1L1

RPL322	1.02E-180	0.560408056	0.945	0.886	6.26E-176	1.07E+00	PTM_cells	RPL32
SMTN	1.95E-199	0.5603694	0.347	0.045	1.19E-194	7.71E+00	VSM_cells	SMTN
MECP2	0.003910827	0.560233652	0.184	0.073	1	2.520547945	T_cells	MECP2
ITM2C	0	0.560179602	0.386	0.047	0	8.212765957	PTM_cells	ITM2C
LVCAT1	0	0.560141136	0.663	0.138	0	4.804347826	spermatocyte	LVCAT1
PML	5.28E-220	0.560106388	0.347	0.036	3.24E-215	9.64E+00	endotheliocyte	PML
CTB.50L17.10	0	0.560028077	0.346	0.099	0	3.494949495	spermatocyte	CTB.50L17.10
RPS192	6.59E-34	0.559998699	0.862	0.758	4.04E-29	1.14E+00	macrophages	RPS19
CEP19	0	0.559963434	0.744	0.168	0	4.428571429	spermatocyte	CEP19
MIF	2.43E-182	0.559920391	0.448	0.162	1.49E-177	2.77E+00	PTM_cells	MIF
NDUFB7	1.75E-274	0.55990508	0.575	0.413	1.07E-269	1.39E+00	spermatogonia	NDUFB7
RFWD3	0	0.559890871	0.429	0.098	0	4.37755102	spermatogonia	RFWD3
RHOA	0	0.559880366	0.767	0.485	0	1.581443299	spermatogonia	RHOA
AGPAT3	0	0.559667624	0.514	0.244	0	2.106557377	spermatid	AGPAT3
SRP141	2.52E-41	0.559514869	0.849	0.728	1.55E-36	1.17E+00	endotheliocyte	SRP14
TAPBP	1.88E-202	0.559455304	0.34	0.037	1.15E-197	9.19E+00	endotheliocyte	TAPBP
KLF5	0	0.559243347	0.494	0.267	0	1.850187266	spermatid	KLF5
MT-ND4L1	5.56E-164	0.559154783	0.473	0.171	3.41E-159	2.77E+00	PTM_cells	MT-ND4L
PRMT11	1.93E-75	0.558708499	0.593	0.224	1.18E-70	2.65E+00	endotheliocyte	PRMT1
AC006942.4	0	0.558695162	0.479	0.182	0	2.631868132	spermatid	AC006942.4
PLD31	5.05E-216	0.558541496	0.499	0.167	3.10E-211	2.99E+00	PTM_cells	PLD3
NDUFB81	1.10E-48	0.558440973	0.581	0.335	6.72E-44	1.73E+00	VSM_cells	NDUFB8
RIBC1	0	0.558435354	0.538	0.252	0	2.134920635	spermatid	RIBC1
SERBP1	0	0.558382541	0.981	0.649	0	1.51155624	spermatocyte	SERBP1
SP1002	1.55E-05	0.558377572	0.211	0.056	0.951830493	3.767857143	T_cells	SP100
DLC11	3.80E-78	0.558365919	0.319	0.142	2.33E-73	2.25E+00	Leydig_cells	DLC1
FOXN3	4.85E-07	0.558178454	0.32	0.243	0.029751212	1.316872428	macrophages	FOXN3
NPHP1	0	0.558088726	0.862	0.295	0	2.922033898	spermatocyte	NPHP1
GSTA4	3.98E-179	0.557904517	0.196	0.041	2.44E-174	4.78E+00	Sertoli_cells	GSTA4
ZFP91	0	0.557877504	0.939	0.537	0	1.748603352	spermatocyte	ZFP91
FOXO31	1.59E-72	0.557872582	0.272	0.135	9.75E-68	2.01E+00	Sertoli_cells	FOXO3
ADI12	6.46E-43	0.557855671	0.232	0.132	3.96E-38	1.76E+00	Sertoli_cells	ADI1
HSPB9	0	0.557743629	0.786	0.247	0	3.182186235	spermatocyte	HSPB9
COL6A12	6.72E-125	0.557664651	0.476	0.116	4.12E-120	4.10E+00	VSM_cells	COL6A1
PKIG	0	0.557641188	0.814	0.307	0	2.651465798	spermatocyte	PKIG
MND1	0	0.557594728	0.345	0.098	0	3.520408163	spermatogonia	MND1
CLDND2	0	0.557387595	0.597	0.21	0	2.842857143	spermatocyte	CLDND2
NBR1	0	0.557326558	0.644	0.48	0	1.341666667	spermatid	NBR1
C8orf4	1.11E-199	0.557288584	0.288	0.027	6.83E-195	1.07E+01	endotheliocyte	C8orf4
EIF4A3	0	0.557210324	0.581	0.321	0	1.809968847	spermatogonia	EIF4A3
CFL12	1.06E-45	0.557183583	0.633	0.744	6.52E-41	8.51E-01	Sertoli_cells	CFL1
APOA1BP	1.34E-28	0.557062911	0.155	0.084	8.22E-24	1.85E+00	Sertoli_cells	APOA1BP
SNHG19	1.76E-301	0.557051282	0.203	0.027	1.08E-296	7.52E+00	Sertoli_cells	SNHG19
ENSA	4.54E-40	0.55704594	0.504	0.265	2.78E-35	1.90E+00	endotheliocyte	ENSA
KLHDC3	0	0.557039105	0.97	0.529	0	1.833648393	spermatocyte	KLHDC3
ITGA9	0	0.556853569	0.322	0.02	0	16.1	PTM_cells	ITGA9
GPR18	0	0.556792438	0.424	0.113	0	3.752212389	spermatid	GPR18
NUF2	0	0.556762357	0.531	0.309	0	1.718446602	spermatogonia	NUF2
PTGER2	1.39E-27	0.556723909	0.158	0.007	8.52E-23	2.26E+01	T_cells	PTGER2
PCBP1	4.81E-39	0.55662899	0.628	0.371	2.95E-34	1.69E+00	endotheliocyte	PCBP1
NDUFB72	8.26E-05	0.556607074	0.39	0.452	1	0.862831858	Sertoli_cells	NDUFB7
SLCO2A1	0	0.556211303	0.273	0.006	0	45.5	endotheliocyte	SLCO2A1
UPF3A	0	0.556173938	0.93	0.472	0	1.970338983	spermatocyte	UPF3A
MPHOSPH10	0	0.556050244	0.448	0.087	0	5.149425287	spermatogonia	MPHOSPH10
FAM186B	0	0.555886275	0.831	0.24	0	3.4625	spermatocyte	FAM186B
NFIA2	2.00E-66	0.55577675	0.503	0.21	1.23E-61	2.40E+00	VSM_cells	NFIA
RHOBTB32	5.13E-77	0.555707604	0.276	0.131	3.15E-72	2.11E+00	Sertoli_cells	RHOBTB3
RGS16	7.46E-86	0.555684931	0.283	0.055	4.58E-81	5.15E+00	endotheliocyte	RGS16
LRP8	2.16E-198	0.555602637	0.23	0.053	1.33E-193	4.34E+00	Sertoli_cells	LRP8
TPI1	1.26E-34	0.555492248	0.567	0.579	7.71E-30	9.79E-01	Sertoli_cells	TPI1
FAM129B	2.05E-187	0.555389307	0.323	0.036	1.26E-182	8.97E+00	endotheliocyte	FAM129B
RPS6KA31	1.60E-54	0.555389077	0.209	0.037	9.84E-50	5.65E+00	macrophages	RPS6KA3
NSFL1C	0	0.555363444	0.55	0.258	0	2.131782946	spermatogonia	NSFL1C
C5orf581	0.00110908	0.555362744	0.32	0.159	1	2.012578616	mastocyte	C5orf58
LAMB22	7.94E-96	0.555241454	0.366	0.091	4.87E-91	4.02E+00	VSM_cells	LAMB2
GRN	0	0.555017479	0.307	0.089	0	3.449438202	spermatogonia	GRN
MSMO1	4.42E-62	0.554967562	0.22	0.104	2.71E-57	2.12E+00	Sertoli_cells	MSMO1
ASZ1	0	0.554927407	0.416	0.06	0	6.933333333	spermatogonia	ASZ1
RAP2A	6.09E-26	0.55491996	0.189	0.054	3.73E-21	3.50E+00	macrophages	RAP2A
NEURL1B	1.75E-176	0.554919371	0.24	0.048	1.08E-171	5.00E+00	Leydig_cells	NEURL1B
DDX171	9.41E-36	0.554917462	0.707	0.499	5.77E-31	1.42E+00	endotheliocyte	DDX17
PRKAR2B	9.88E-92	0.5549171	0.225	0.086	6.06E-87	2.62E+00	Sertoli_cells	PRKAR2B
NFIC2	3.03E-45	0.554512476	0.349	0.241	1.86E-40	1.45E+00	Sertoli_cells	NFIC
RBMS3	9.61E-102	0.554497056	0.336	0.134	5.89E-97	2.51E+00	Leydig_cells	RBMS3
06-Mar	0	0.554483022	0.556	0.269	0	2.066914498	spermatogonia	06-Mar

RPS181	6.57E-38	0.554446629	0.939	0.852	4.03E-33	1.10E+00	macrophages	RPS18
CECR1	7.05E-13	0.554392633	0.219	0.105	4.32E-08	2.09E+00	macrophages	CECR1
ATP5D	3.55E-46	0.554205384	0.592	0.38	2.18E-41	1.56E+00	VSM_cells	ATP5D
PTGES	0	0.554192262	0.208	0.016	0	13	Sertoli_cells	PTGES
LSM1	0	0.554188247	0.434	0.128	0	3.390625	spermatogonia	LSM1
GOT2	3.10E-128	0.554143427	0.232	0.074	1.90E-123	3.14E+00	Sertoli_cells	GOT2
RPL21	0	0.554096903	0.766	0.398	0	1.924623116	spermatogonia	RPL21
MTFR1	0	0.554045642	0.58	0.4	0	1.45	spermatid	MTFR1
SMOC11	6.19E-162	0.553892845	0.249	0.07	3.80E-157	3.56E+00	Sertoli_cells	SMOC1
CNN21	1.00E-07	0.553862376	0.211	0.042	0.006133555	5.023809524	T_cells	CNN2
JTB	8.42E-49	0.553837684	0.293	0.177	5.17E-44	1.66E+00	Sertoli_cells	JTB
C17orf50	0	0.553651339	0.69	0.373	0	1.849865952	spermatid	C17orf50
IL13RA2	3.30E-244	0.553607173	0.472	0.306	2.02E-239	1.54E+00	spermatid	IL13RA2
CCDC96	0	0.553446967	0.884	0.346	0	2.554913295	spermatocyte	CCDC96
PDE1A	0	0.553398432	0.592	0.283	0	2.091872792	spermatid	PDE1A
FEZ2	5.67E-126	0.55325275	0.449	0.096	3.48E-121	4.68E+00	endotheliocyte	FEZ2
RPS214	2.05E-132	0.553166503	0.776	0.515	1.26E-127	1.51E+00	Leydig_cells	RPS21
CENPV	0	0.553125044	0.439	0.128	0	3.4296875	spermatogonia	CENPV
INO80E	0	0.553116244	0.428	0.116	0	3.689655172	spermatogonia	INO80E
KIF1A	0	0.553006066	0.174	0.02	0	8.7	spermatogonia	KIF1A
BUB1	0	0.552978536	0.446	0.203	0	2.197044335	spermatogonia	BUB1
REL	1.81E-74	0.552931615	0.387	0.11	1.11E-69	3.52E+00	endotheliocyte	REL
VRK3	0	0.552898246	0.764	0.618	0	1.236245955	spermatid	VRK3
HSPA8	1.45E-37	0.552835656	0.555	0.568	8.92E-33	9.77E-01	Sertoli_cells	HSPA8
PLSCR12	0	0.552627391	0.291	0.039	0	7.461538462	Leydig_cells	PLSCR1
GLTSCR21	1.91E-105	0.552614979	0.679	0.514	1.17E-100	1.32E+00	PTM_cells	GLTSCR2
MCL14	0.009610309	0.552431524	0.412	0.538	1	0.765799257	Sertoli_cells	MCL1
EDNRA1	0	0.552408352	0.357	0.036	0	9.916666667	PTM_cells	EDNRA
ALDOA	3.46E-118	0.552235023	0.761	0.608	2.12E-113	1.25E+00	PTM_cells	ALDOA
SCD5	6.19E-26	0.552194781	0.28	0.215	3.80E-21	1.30E+00	Sertoli_cells	SCD5
SLC25A5	1.88E-86	0.552177159	0.484	0.153	1.15E-81	3.16E+00	VSM_cells	SLC25A5
RNF216	9.80E-287	0.552107502	0.602	0.406	6.02E-282	1.48E+00	spermatogonia	RNF216
FHL2	2.08E-237	0.551952264	0.422	0.102	1.28E-232	4.14E+00	Leydig_cells	FHL2
RP11.466H18.12	5.28E-108	0.551932419	0.162	0.034	3.24E-103	4.76E+00	Leydig_cells	RP11.466H18.1
PIWIL1	1.25E-67	0.551632315	0.355	0.29	7.67E-63	1.22E+00	spermatogonia	PIWIL1
NKX3.1	0	0.551608094	0.193	0.009	0	21.44444444	Sertoli_cells	NKX3.1
MAN1A2	1.08E-187	0.551414739	0.449	0.275	6.64E-183	1.63E+00	spermatogonia	MAN1A2
GADD45A1	0	0.551175585	0.402	0.057	0	7.052631579	PTM_cells	GADD45A
B3GALT4	0	0.551080544	0.616	0.122	0	5.049180328	spermatocyte	B3GALT4
TP53RK	0	0.551013482	0.772	0.254	0	3.039370079	spermatocyte	TP53RK
YY1	0	0.551010486	0.57	0.26	0	2.192307692	spermatogonia	YY1
UCP2	4.37E-11	0.550875588	0.249	0.141	2.68E-06	1.77E+00	macrophages	UCP2
FCGR2C	3.76E-102	0.550825417	0.118	0.007	2.31E-97	1.69E+01	macrophages	FCGR2C
MT1X	5.26E-126	0.550801059	0.355	0.06	3.23E-121	5.92E+00	endotheliocyte	MT1X
JDP21	0	0.550741596	0.242	0.025	0	9.68	Leydig_cells	JDP2
ATP2B4	2.94E-47	0.550717525	0.433	0.204	1.80E-42	2.12E+00	VSM_cells	ATP2B4
CEP70	0	0.550673382	0.911	0.384	0	2.372395833	spermatocyte	CEP70
PCM1	0	0.550578395	0.981	0.653	0	1.50229709	spermatocyte	PCM1
TAP1	2.35E-236	0.550569281	0.303	0.025	1.44E-231	1.21E+01	endotheliocyte	TAP1
QSOX1	2.27E-41	0.550435273	0.42	0.291	1.39E-36	1.44E+00	Leydig_cells	QSOX1
CDC37L1	0	0.550413854	0.448	0.105	0	4.266666667	spermatogonia	CDC37L1
RPS241	7.98E-27	0.550285211	0.902	0.886	4.90E-22	1.02E+00	macrophages	RPS24
RANGRF	0	0.550277618	0.925	0.451	0	2.050997783	spermatocyte	RANGRF
ARPC1A	5.82E-30	0.550197127	0.529	0.364	3.57E-25	1.45E+00	VSM_cells	ARPC1A
CCNB1	0	0.550193719	0.741	0.224	0	3.308035714	spermatocyte	CCNB1
SP1001	9.70E-33	0.550094707	0.209	0.055	5.95E-28	3.80E+00	macrophages	SP100
FBL	0	0.550085537	0.614	0.416	0	1.475961538	spermatid	FBL
SHANK3	1.71E-227	0.549957729	0.298	0.026	1.05E-222	1.15E+01	endotheliocyte	SHANK3
SFR1	0	0.549925738	0.429	0.209	0	2.052631579	spermatogonia	SFR1
PSMA2	0	0.54980586	0.512	0.257	0	1.992217899	spermatogonia	PSMA2
CAPN11	0	0.549764536	0.591	0.13	0	4.546153846	spermatocyte	CAPN11
UBXN8	0	0.549715832	0.489	0.257	0	1.902723735	spermatid	UBXN8
LMO4	1.01E-263	0.549662168	0.277	0.102	6.22E-259	2.72E+00	spermatogonia	LMO4
TRAPPC2L	0	0.54963028	0.918	0.449	0	2.04454343	spermatocyte	TRAPPC2L
MSL1	0	0.549614065	0.525	0.25	0	2.1	spermatogonia	MSL1
KCNQ1OT11	1.98E-51	0.549577812	0.322	0.167	1.21E-46	1.93E+00	Leydig_cells	KCNQ1OT1
QKI	1.35E-11	0.549523348	0.396	0.426	8.28E-07	9.30E-01	Sertoli_cells	QKI
AKR1C2	1.24E-168	0.549465154	0.274	0.064	7.60E-164	4.28E+00	Leydig_cells	AKR1C2
CDC42EP4	1.94E-177	0.54945366	0.328	0.039	1.19E-172	8.41E+00	endotheliocyte	CDC42EP4
EIF4A21	5.00E-49	0.549387467	0.759	0.462	3.07E-44	1.64E+00	endotheliocyte	EIF4A2
H1FX	3.92E-73	0.549365591	0.437	0.135	2.40E-68	3.24E+00	endotheliocyte	H1FX
FKBP11	0.000539505	0.549181472	0.211	0.075	1	2.813333333	T_cells	FKBP11
HMG2	3.19E-257	0.54902772	0.731	0.587	1.95E-252	1.25E+00	spermatogonia	HMG2
MTFR1L	0	0.549024975	0.848	0.364	0	2.32967033	spermatocyte	MTFR1L
TMA7	2.77E-22	0.548858573	0.627	0.718	1.70E-17	8.73E-01	Sertoli_cells	TMA7

C20orf85	0	0.548789168	0.862	0.385	0	2.238961039	spermatocyte	C20orf85
SESN3	0	0.548540779	0.646	0.44	0	1.468181818	spermatid	SESN3
NCF2	4.30E-200	0.548477109	0.199	0.01	2.64E-195	1.99E+01	macrophages	NCF2
THUMPD3	0	0.54839789	0.953	0.479	0	1.989561587	spermatocyte	THUMPD3
EIF3L	4.32E-45	0.548397429	0.564	0.343	2.65E-40	1.64E+00	VSM_cells	EIF3L
TMPO-AS1	0	0.548380847	0.519	0.145	0	3.579310345	spermatocyte	TMPO-AS1
MT.ATP82	3.24E-48	0.548348238	0.292	0.168	1.99E-43	1.74E+00	Sertoli_cells	MT.ATP8
FBXO21	3.05E-195	0.548290528	0.509	0.193	1.87E-190	2.64E+00	PTM_cells	FBXO21
MEST	1.36E-30	0.548238665	0.307	0.206	8.34E-26	1.49E+00	Leydig_cells	MEST
NFASC	1.20E-177	0.548234505	0.258	0.028	7.35E-173	9.21E+00	VSM_cells	NFASC
DDX18	0	0.548179621	0.519	0.219	0	2.369863014	spermatogonia	DDX18
ATP6V0D1	0	0.548097082	0.89	0.334	0	2.664670659	spermatocyte	ATP6V0D1
SRSF91	4.92E-30	0.548073385	0.469	0.422	3.02E-25	1.11E+00	Sertoli_cells	SRSF9
SOX30	8.04E-291	0.548068951	0.601	0.461	4.93E-286	1.30E+00	spermatid	SOX30
RPL343	3.64E-134	0.547762784	0.933	0.904	2.23E-129	1.03E+00	PTM_cells	RPL34
AURKAIP1	0	0.547725884	0.985	0.745	0	1.322147651	spermatocyte	AURKAIP1
CCDC69	0	0.547702883	0.315	0.019	0	16.57894737	endotheliocyte	CCDC69
AMZ2	0	0.547639804	0.971	0.535	0	1.814953271	spermatocyte	AMZ2
SPAG5	0	0.547620922	0.876	0.322	0	2.720496894	spermatocyte	SPAG5
UBE2B	0	0.547464187	0.64	0.459	0	1.394335512	spermatogonia	UBE2B
PARM1	7.67E-120	0.547462025	0.323	0.062	4.71E-115	5.21E+00	VSM_cells	PARM1
SEC62	5.71E-43	0.547404366	0.667	0.431	3.50E-38	1.55E+00	endotheliocyte	SEC62
TCEAL43	8.52E-108	0.547338721	0.385	0.179	5.23E-103	2.15E+00	Sertoli_cells	TCEAL4
TTC23L	0	0.547177024	0.514	0.245	0	2.097959184	spermatid	TTC23L
ATP6V1B2	0	0.547161328	0.754	0.282	0	2.673758865	spermatocyte	ATP6V1B2
BNIP3L1	9.26E-87	0.547097451	0.655	0.533	5.68E-82	1.23E+00	PTM_cells	BNIP3L
MCL12	1.61E-34	0.547063062	0.575	0.528	9.89E-30	1.09E+00	Leydig_cells	MCL1
BBS5	0	0.547056493	0.703	0.205	0	3.429268293	spermatocyte	BBS5
PRNP1	6.06E-168	0.546934149	0.515	0.224	3.72E-163	2.30E+00	PTM_cells	PRNP
TMED9	0	0.546927971	0.484	0.144	0	3.361111111	spermatogonia	TMED9
NEFM	0	0.546741938	0.76	0.196	0	3.87755102	spermatocyte	NEFM
PPDPF2	0.008946809	0.546709673	0.526	0.446	1	1.179372197	T_cells	PPDPF
ELMSAN1	2.75E-98	0.546654823	0.365	0.078	1.69E-93	4.68E+00	endotheliocyte	ELMSAN1
C19orf45	0	0.546541474	0.459	0.147	0	3.12244898	spermatid	C19orf45
LRRIQ1	0	0.54638344	0.929	0.443	0	2.097065463	spermatocyte	LRRIQ1
AC008155.1	9.41E-20	0.546375423	0.158	0.048	5.77E-15	3.29E+00	macrophages	AC008155.1
SNAI2	0	0.546368079	0.268	0.016	0	16.75	Leydig_cells	SNAI2
GAS51	7.85E-52	0.546360347	0.17	0.061	4.82E-47	2.79E+00	Leydig_cells	GAS5
CHMP1B1	0.00269496	0.546330398	0.368	0.226	1	1.628318584	T_cells	CHMP1B
POU2F2	3.24E-14	0.546282893	0.286	0.152	1.99E-09	1.88E+00	macrophages	POU2F2
PIGT	0	0.546237036	0.53	0.262	0	2.022900763	spermatogonia	PIGT
PFN12	4.42E-131	0.546215249	0.653	0.397	2.71E-126	1.64E+00	PTM_cells	PFN1
ATP6AP21	5.93E-255	0.54610213	0.529	0.161	3.64E-250	3.29E+00	PTM_cells	ATP6AP2
MT-CO12	1.17E-60	0.546049234	0.607	0.447	7.19E-56	1.36E+00	Leydig_cells	MT-CO1
TERF2IP1	1.76E-51	0.545927867	0.456	0.338	1.08E-46	1.35E+00	Sertoli_cells	TERF2IP
LAT2	3.09E-205	0.545798811	0.202	0.01	1.90E-200	2.02E+01	macrophages	LAT2
CPEB3	0	0.545727084	0.467	0.179	0	2.608938547	spermatid	CPEB3
PHF20L1	0	0.545681199	0.847	0.325	0	2.606153846	spermatocyte	PHF20L1
EEA1	1.93E-236	0.545615161	0.397	0.212	1.18E-231	1.87E+00	spermatogonia	EEA1
PRCP	0	0.545578559	0.746	0.193	0	3.865284974	spermatocyte	PRCP
CCDC74B	0	0.545444876	0.878	0.337	0	2.605341246	spermatocyte	CCDC74B
SPCS2	0	0.545415226	0.567	0.318	0	1.783018868	spermatogonia	SPCS2
SORL1	9.21E-34	0.545169295	0.226	0.06	5.65E-29	3.77E+00	macrophages	SORL1
KLC1	0	0.54512104	0.447	0.1	0	4.47	spermatogonia	KLC1
CCDC86	0	0.545022782	0.581	0.147	0	3.952380952	spermatocyte	CCDC86
HS6ST2	0	0.545017025	0.229	0.009	0	25.44444444	Leydig_cells	HS6ST2
MVP	2.73E-206	0.544901467	0.207	0.041	1.67E-201	5.05E+00	Sertoli_cells	MVP
BTF32	2.16E-50	0.544867028	0.827	0.713	1.33E-45	1.16E+00	VSM_cells	BTF3
RPL282	2.73E-73	0.544777619	0.819	0.823	1.67E-68	9.95E-01	Sertoli_cells	RPL28
TCEA2	0	0.544760956	0.844	0.378	0	2.232804233	spermatocyte	TCEA2
EAF1	0	0.544693927	0.467	0.191	0	2.445026178	spermatid	EAF1
EDF1	3.77E-111	0.544647052	0.709	0.528	2.31E-106	1.34E+00	PTM_cells	EDF1
CHURC1	2.49E-38	0.544617171	0.554	0.347	1.52E-33	1.60E+00	VSM_cells	CHURC1
ENAH1	7.93E-32	0.544347138	0.493	0.309	4.87E-27	1.60E+00	VSM_cells	ENAH
GHITM	0	0.544322368	0.809	0.734	0	1.102179837	spermatid	GHITM
RPL35A2	2.85E-168	0.5441928	0.933	0.868	1.75E-163	1.07E+00	PTM_cells	RPL35A
SOHLH1	0	0.544142539	0.351	0.074	0	4.743243243	spermatogonia	SOHLH1
BSDC1	0.005697429	0.544122497	0.42	0.302	1	1.390728477	mastocyte	BSDC1
C1QTNF3	0	0.544104913	0.481	0.23	0	2.091304348	spermatid	C1QTNF3
PCID2	0	0.544052049	0.785	0.268	0	2.929104478	spermatocyte	PCID2
S100A8	0	0.543993193	0.381	0.092	0	4.141304348	spermatid	S100A8
HNRNPAB	0	0.543895681	0.515	0.213	0	2.417840376	spermatogonia	HNRNPAB
ZC3H14	0	0.543827331	0.978	0.596	0	1.640939597	spermatocyte	ZC3H14
RPS6KA2	1.07E-95	0.543817125	0.375	0.089	6.55E-91	4.21E+00	endotheliocyte	RPS6KA2
RBMX1	1.38E-100	0.543630712	0.408	0.178	8.49E-96	2.29E+00	Leydig_cells	RBMX

ZNF770	0	0.543356718	0.404	0.116	0	3.482758621	spermatogonia	ZNF770
SPAG9	0	0.543291353	0.945	0.493	0	1.9168357	spermatocyte	SPAG9
ASAH1	2.47E-83	0.543268395	0.395	0.116	1.51E-78	3.41E+00	VSM_cells	ASAH1
ZFYVE212	1.46E-62	0.543111535	0.507	0.225	8.93E-58	2.25E+00	VSM_cells	ZFYVE21
ARL6IP12	3.27E-30	0.543101239	0.485	0.465	2.01E-25	1.04E+00	Sertoli_cells	ARL6IP1
MRPS22	0	0.543095525	0.809	0.242	0	3.342975207	spermatocyte	MRPS22
RPL224	3.43E-36	0.543077524	0.627	0.65	2.11E-31	9.65E-01	Sertoli_cells	RPL22
RPS141	8.15E-22	0.54294608	0.869	0.831	5.00E-17	1.05E+00	macrophages	RPS14
RP11.475C16.11	7.12E-11	0.542800811	0.233	0.186	4.37E-06	1.25E+00	Leydig_cells	RP11.475C16.1
IQCK	0	0.542709312	0.798	0.245	0	3.257142857	spermatocyte	IQCK
VWA1	5.12E-173	0.542700543	0.308	0.035	3.14E-168	8.80E+00	endotheliocyte	VWA1
TMEM215	0	0.542613419	0.353	0.059	0	5.983050847	spermatid	TMEM215
UQCRH1	1.93E-48	0.542574493	0.655	0.434	1.19E-43	1.51E+00	VSM_cells	UQCRH
RSPH9	0	0.542531739	0.804	0.248	0	3.241935484	spermatocyte	RSPH9
DCC	0	0.542494792	0.457	0.156	0	2.929487179	spermatid	DCC
CFDP1	4.56E-287	0.542481396	0.591	0.411	2.80E-282	1.44E+00	spermatogonia	CFDP1
PARD6A	0	0.542463866	0.44	0.226	0	1.946902655	spermatid	PARD6A
RARRES22	1.10E-92	0.542435557	0.345	0.082	6.76E-88	4.21E+00	VSM_cells	RARRES2
CTSD	5.45E-15	0.542356643	0.31	0.159	3.35E-10	1.95E+00	macrophages	CTSD
PCSK7	2.90E-36	0.542356165	0.408	0.21	1.78E-31	1.94E+00	VSM_cells	PCSK7
SYNGR1	7.20E-49	0.542339692	0.456	0.336	4.42E-44	1.36E+00	Leydig_cells	SYNGR1
ETHE1	4.79E-06	0.542033037	0.158	0.032	0.293934212	4.9375	T_cells	ETHE1
CCDC1121	0.00074237	0.542015857	0.46	0.281	1	1.637010676	mastocyte	CCDC112
MT-ND6	1.42E-66	0.541978394	0.334	0.101	8.69E-62	3.31E+00	VSM_cells	MT-ND6
THAP7	0	0.541834053	0.451	0.188	0	2.39893617	spermatogonia	THAP7
CDC42EP41	1.30E-267	0.541822899	0.208	0.032	7.96E-263	6.50E+00	Sertoli_cells	CDC42EP4
RAC14	3.09E-129	0.541731265	0.634	0.367	1.90E-124	1.73E+00	PTM_cells	RAC1
CXCR3	4.81E-233	0.541644992	0.132	0	2.95E-228	#DIV/0!	T_cells	CXCR3
AC008132.13	1.19E-17	0.541584764	0.166	0.132	7.27E-13	1.26E+00	spermatogonia	AC008132.13
MORC2.AS1	0	0.541500484	0.314	0.105	0	2.99047619	spermatocyte	MORC2.AS1
GAA	0	0.541360776	0.729	0.234	0	3.115384615	spermatocyte	GAA
MRGBP	0	0.541354275	0.926	0.441	0	2.099773243	spermatocyte	MRGBP
RBM32	1.11E-24	0.541208702	0.458	0.226	6.80E-20	2.03E+00	macrophages	RBM3
OCIAD2	8.68E-262	0.541154607	0.328	0.027	5.32E-257	1.21E+01	endotheliocyte	OCIAD2
PPP3R21	0.000182583	0.541051234	0.76	0.588	1	1.292517007	mastocyte	PPP3R2
ADAMTSL4	0	0.541050533	0.226	0.015	0	15.06666667	Leydig_cells	ADAMTSL4
RP11.113D6.10	0	0.541024589	0.322	0.075	0	4.293333333	spermatocyte	RP11.113D6.10
DENR	0	0.541011964	0.382	0.094	0	4.063829787	spermatogonia	DENR
TAGLN22	4.21E-107	0.540890738	0.45	0.203	2.58E-102	2.22E+00	Leydig_cells	TAGLN2
TBC1D15	0	0.540860293	0.872	0.302	0	2.887417219	spermatocyte	TBC1D15
ZNF451	0	0.540832754	0.596	0.433	0	1.376443418	spermatid	ZNF451
THYN1	0	0.540798441	0.486	0.224	0	2.169642857	spermatogonia	THYN1
NRGN	2.73E-67	0.540734031	0.258	0.065	1.68E-62	3.97E+00	VSM_cells	NRGN
TGIF1	1.59E-07	0.540588299	0.259	0.173	0.009747878	1.497109827	macrophages	TGIF1
MTND2P28	0	0.5405499	0.267	0.083	0	3.21686747	spermatogonia	MTND2P28
DHFR	0	0.540499658	0.442	0.203	0	2.177339901	spermatogonia	DHFR
PRKCH	5.06E-118	0.540410348	0.347	0.065	3.10E-113	5.34E+00	endotheliocyte	PRKCH
SPON21	5.66E-07	0.540270574	0.132	0.02	0.034694032	6.6	T_cells	SPON2
LRP1	2.37E-29	0.540252	0.259	0.084	1.45E-24	3.08E+00	macrophages	LRP1
EEF1D1	4.44E-97	0.540198103	0.769	0.624	2.72E-92	1.23E+00	Leydig_cells	EEF1D
KATNAL2	0	0.540197034	0.716	0.135	0	5.303703704	spermatocyte	KATNAL2
EFHD1	3.27E-59	0.540186317	0.397	0.16	2.00E-54	2.48E+00	VSM_cells	EFHD1
MT.RNR1	5.90E-31	0.540152057	0.535	0.28	3.62E-26	1.91E+00	macrophages	MT.RNR1
SNRNP40	0	0.540046554	0.423	0.113	0	3.743362832	spermatogonia	SNRNP40
NEDD81	0.000189123	0.540039909	0.369	0.422	1	0.874407583	Sertoli_cells	NEDD8
PHACTR21	1.05E-184	0.540008068	0.313	0.074	6.46E-180	4.23E+00	Leydig_cells	PHACTR2
USP22	1.79E-40	0.539957572	0.296	0.196	1.10E-35	1.51E+00	Sertoli_cells	USP22
MYADM3	2.10E-53	0.539745526	0.48	0.219	1.29E-48	2.19E+00	VSM_cells	MYADM
TMEM14C	1.29E-141	0.539673648	0.456	0.175	7.94E-137	2.61E+00	Leydig_cells	TMEM14C
PTCH21	2.08E-254	0.539637124	0.342	0.073	1.27E-249	4.68E+00	PTM_cells	PTCH2
SNHG81	2.69E-131	0.539528625	0.549	0.297	1.65E-126	1.85E+00	PTM_cells	SNHG8
RPS123	1.40E-211	0.539520935	0.93	0.829	8.59E-207	1.12E+00	PTM_cells	RPS12
HSF2	1.04E-252	0.539422478	0.418	0.235	6.37E-248	1.78E+00	spermatogonia	HSF2
PHB	2.30E-36	0.539330824	0.257	0.163	1.41E-31	1.58E+00	Sertoli_cells	PHB
MEPCE	0	0.539129739	0.734	0.231	0	3.177489177	spermatocyte	MEPCE
PTN1	1.06E-124	0.539116461	0.391	0.159	6.48E-120	2.46E+00	PTM_cells	PTN
NLRP1	0	0.539067815	0.659	0.335	0	1.967164179	spermatocyte	NLRP1
15-Sep	0	0.539047096	0.789	0.279	0	2.827956989	spermatocyte	15-Sep
LINC00467	0	0.539044331	0.958	0.845	0	1.133727811	spermatid	LINC00467
TRBC2	1.31E-244	0.53891482	0.233	0.033	8.05E-240	7.06E+00	Leydig_cells	TRBC2
TCEAL9	0	0.538853639	0.198	0.023	0	8.608695652	Sertoli_cells	TCEAL9
FAM198B1	1.26E-172	0.538811859	0.255	0.054	7.73E-168	4.72E+00	Leydig_cells	FAM198B
NRP11	1.01E-178	0.538750598	0.271	0.03	6.22E-174	9.03E+00	VSM_cells	NRP1
TXN21	1.86E-12	0.538617159	0.316	0.297	1.14E-07	1.06E+00	Sertoli_cells	TXN2
TRIM44	0	0.53858896	0.45	0.155	0	2.903225806	spermatogonia	TRIM44

SPTAN1	1.90E-25	0.538580494	0.504	0.323	1.16E-20	1.56E+00	endotheliocyte	SPTAN1
KDR	0	0.538573441	0.246	0.003	0	82	endotheliocyte	KDR
LINC01249	0	0.538553899	0.706	0.134	0	5.268656716	spermatocyte	LINC01249
ITM2B4	8.09E-100	0.538492442	0.767	0.319	4.96E-95	2.40E+00	VSM_cells	ITM2B
TMEM14C1	6.86E-230	0.538452822	0.518	0.169	4.21E-225	3.07E+00	PTM_cells	TMEM14C
NR4A2	7.70E-72	0.538397242	0.447	0.146	4.73E-67	3.06E+00	endotheliocyte	NR4A2
TDRD1	0	0.538389006	0.403	0.135	0	2.985185185	spermatogonia	TDRD1
KLF63	2.53E-181	0.538264108	0.598	0.276	1.55E-176	2.17E+00	PTM_cells	KLF6
MGC39584	0	0.538202599	0.431	0.153	0	2.816993464	spermatid	MGC39584
ITSN2	1.03E-12	0.538188746	0.269	0.142	6.32E-08	1.89E+00	macrophages	ITSN2
IER5L	0	0.538177371	0.327	0.05	0	6.54	PTM_cells	IER5L
RP5.991B18.2	0	0.538131088	0.287	0.108	0	2.657407407	spermatid	RP5.991B18.2
PMS1	0	0.538024958	0.634	0.371	0	1.708894879	spermatid	PMS1
HDDC2	0	0.538021929	0.543	0.353	0	1.538243626	spermatogonia	HDDC2
IPO8	0	0.537981695	0.687	0.154	0	4.461038961	spermatocyte	IPO8
USP9X	0	0.537969811	0.372	0.155	0	2.4	spermatogonia	USP9X
LINC00935	0	0.537921291	0.435	0.158	0	2.753164557	spermatid	LINC00935
MBP	0.000267374	0.537863736	0.237	0.087	1	2.724137931	T_cells	MBP
DHRS7	2.73E-296	0.537829418	0.304	0.046	1.68E-291	6.61E+00	Leydig_cells	DHRS7
FUS	0	0.537811245	0.741	0.59	0	1.255932203	spermatogonia	FUS
TEKT3	0	0.537737353	0.553	0.311	0	1.778135048	spermatid	TEKT3
GCSH	2.11E-175	0.537701326	0.469	0.19	1.30E-170	2.47E+00	PTM_cells	GCSH
GDI1	0	0.53762808	0.342	0.09	0	3.8	spermatogonia	GDI1
FAM9B	0	0.53738093	0.262	0.008	0	32.75	spermatogonia	FAM9B
UQCRFS1	0	0.53734788	0.909	0.449	0	2.024498886	spermatocyte	UQCRFS1
SLC25A28	0	0.537293591	0.89	0.336	0	2.648809524	spermatocyte	SLC25A28
ANKDD1A	1.10E-306	0.537223622	0.252	0.031	6.73E-302	8.13E+00	Leydig_cells	ANKDD1A
TAX1BP3	1.65E-125	0.537179036	0.326	0.108	1.01E-120	3.02E+00	Leydig_cells	TAX1BP3
ILK	3.83E-104	0.537054097	0.493	0.283	2.35E-99	1.74E+00	PTM_cells	ILK
MIDN2	7.36E-67	0.536945169	0.373	0.192	4.51E-62	1.94E+00	Leydig_cells	MIDN
BTF33	0.000210951	0.536925556	0.816	0.714	1	1.142857143	T_cells	BTF3
CYB5R32	6.77E-67	0.53683599	0.533	0.225	4.15E-62	2.37E+00	VSM_cells	CYB5R3
RANBP1	0	0.536775722	0.761	0.612	0	1.243464052	spermatogonia	RANBP1
ANXA13	9.18E-125	0.53673085	0.378	0.077	5.63E-120	4.91E+00	VSM_cells	ANXA1
UBL51	1.85E-17	0.536649551	0.543	0.581	1.14E-12	9.35E-01	Sertoli_cells	UBL5
ARL6IP54	5.05E-67	0.536274936	0.493	0.2	3.10E-62	2.47E+00	VSM_cells	ARL6IP5
BAZ1A	0	0.536249135	0.731	0.599	0	1.220367279	spermatid	BAZ1A
MYL12B2	0.00932517	0.536230278	0.632	0.626	1	1.009584665	T_cells	MYL12B
TMEM217	0	0.536196009	0.632	0.105	0	6.019047619	spermatocyte	TMEM217
UBXN1	0	0.536141249	0.705	0.547	0	1.288848263	spermatogonia	UBXN1
RASSF9	0	0.536032793	0.295	0.004	0	73.75	endotheliocyte	RASSF9
PRRX2-AS1	0	0.53602951	0.333	0.125	0	2.664	spermatid	PRRX2-AS1
ITPR2	9.80E-32	0.535905742	0.192	0.048	6.01E-27	4.00E+00	macrophages	ITPR2
RPL275	1.13E-40	0.535858736	0.639	0.664	6.96E-36	9.62E-01	Sertoli_cells	RPL27
C4orf36	0	0.535780684	0.401	0.099	0	4.050505051	spermatid	C4orf36
WDR83OS	1.25E-67	0.535705133	0.583	0.239	7.64E-63	2.44E+00	endotheliocyte	WDR83OS
SIN3B1	5.05E-140	0.535668392	0.402	0.156	3.10E-135	2.58E+00	PTM_cells	SIN3B
KLHDC9	0	0.535646646	0.906	0.398	0	2.27638191	spermatocyte	KLHDC9
OSBPL8	7.76E-297	0.535536166	0.44	0.234	4.76E-292	1.88E+00	spermatogonia	OSBPL8
SVIP	0	0.535481011	0.884	0.479	0	1.845511482	spermatocyte	SVIP
CBLN1	0	0.535409294	0.82	0.294	0	2.789115646	spermatocyte	CBLN1
MT1A	3.56E-226	0.535355875	0.219	0.031	2.18E-221	7.06E+00	Leydig_cells	MT1A
GBP2	2.75E-08	0.535180752	0.209	0.121	0.001686847	1.727272727	macrophages	GBP2
SLC25A3	0	0.535175372	0.66	0.378	0	1.746031746	spermatogonia	SLC25A3
FLNA	4.10E-118	0.535044662	0.494	0.114	2.51E-113	4.33E+00	endotheliocyte	FLNA
EIF4G2	0	0.535017986	0.787	0.664	0	1.185240964	spermatogonia	EIF4G2
PAIP2B	0	0.53498456	0.587	0.139	0	4.223021583	spermatocyte	PAIP2B
MRPS10	0	0.534959269	0.482	0.166	0	2.903614458	spermatogonia	MRPS10
RPS271	4.67E-118	0.534924212	0.919	0.818	2.87E-113	1.12E+00	PTM_cells	RPS27
AC016739.21	3.33E-51	0.53475591	0.177	0.066	2.05E-46	2.68E+00	Leydig_cells	AC016739.2
SPTAN11	2.17E-19	0.534703492	0.358	0.323	1.33E-14	1.11E+00	Sertoli_cells	SPTAN1
HLA-A1	0.003583398	0.534672846	0.333	0.309	1	1.077669903	macrophages	HLA-A
HTRA1	5.78E-138	0.534652795	0.362	0.059	3.54E-133	6.14E+00	endotheliocyte	HTRA1
ALDH7A1	3.05E-112	0.534627525	0.211	0.068	1.87E-107	3.10E+00	Sertoli_cells	ALDH7A1
AIF1L	2.70E-163	0.534563513	0.335	0.044	1.66E-158	7.61E+00	endotheliocyte	AIF1L
DYNC1H1	0	0.534530778	0.574	0.277	0	2.072202166	spermatogonia	DYNC1H1
YWHAB4	4.23E-41	0.534487931	0.438	0.348	2.59E-36	1.26E+00	Sertoli_cells	YWHAB
CCDC82	0	0.534416	0.744	0.372	0	2	spermatocyte	CCDC82
LRG1	0	0.534354025	0.191	0.002	0	95.5	endotheliocyte	LRG1
RAC12	4.28E-13	0.534190085	0.502	0.379	2.63E-08	1.32E+00	macrophages	RAC1
PWRN1	0	0.534059359	0.477	0.166	0	2.873493976	spermatid	PWRN1
USP8	0	0.534015182	0.863	0.318	0	2.713836478	spermatocyte	USP8
SERTAD14	0.001102569	0.534011375	0.211	0.077	1	2.74025974	T_cells	SERTAD1
WDR74	1.80E-119	0.533975809	0.352	0.257	1.11E-114	1.37E+00	spermatid	WDR74
APOPT1	0	0.533966592	0.692	0.568	0	1.218309859	spermatid	APOPT1

ADI1	2.34E-230	0.533956336	0.424	0.123	1.44E-225	3.45E+00	PTM_cells	ADI1
METRNL	2.26E-13	0.533864041	0.259	0.135	1.39E-08	1.92E+00	macrophages	METRNL
AC079779.5	0	0.533828171	0.387	0.083	0	4.662650602	spermatid	AC079779.5
MMP28	1.77E-209	0.533824953	0.35	0.039	1.09E-204	8.97E+00	endotheliocyte	MMP28
PCDH18	0	0.533811271	0.215	0.02	0	10.75	Leydig_cells	PCDH18
C9orf173	0	0.533806138	0.346	0.133	0	2.601503759	spermatid	C9orf173
CNPY3	0	0.533723067	0.762	0.21	0	3.628571429	spermatocyte	CNPY3
PHACTR2.AS1	0	0.533645898	0.28	0.098	0	2.857142857	spermatid	PHACTR2.AS1
C1orf185	0	0.533633291	0.528	0.298	0	1.771812081	spermatid	C1orf185
MGLL1	6.20E-127	0.533598699	0.345	0.066	3.81E-122	5.23E+00	VSM_cells	MGLL1
SLC51A1	0	0.533438334	0.391	0.078	0	5.012820513	PTM_cells	SLC51A1
RP11.864N7.2	3.27E-06	0.533381373	0.276	0.197	0.20062941	1.401015228	macrophages	RP11.864N7.2
AHDC1	6.69E-155	0.533360302	0.245	0.054	4.11E-150	4.54E+00	Leydig_cells	AHDC1
CUTC	0	0.533261159	0.613	0.184	0	3.331521739	spermatocyte	CUTC
CEP78	0	0.533175917	0.453	0.159	0	2.849056604	spermatogonia	CEP78
ARGLU1	0	0.533153209	0.623	0.364	0	1.711538462	spermatogonia	ARGLU1
DGKH	1.82E-34	0.53313654	0.304	0.134	1.12E-29	2.27E+00	VSM_cells	DGKH
DYNLRB11	6.43E-41	0.533129914	0.56	0.355	3.95E-36	1.58E+00	VSM_cells	DYNLRB11
PPIA5	1.41E-52	0.533007259	0.816	0.624	8.64E-48	1.31E+00	VSM_cells	PPIA5
TSPO2	3.56E-207	0.532979826	0.352	0.081	2.19E-202	4.35E+00	Leydig_cells	TSPO2
MAP4K4	0	0.532944747	0.423	0.199	0	2.125628141	spermatogonia	MAP4K4
RPL35A3	7.22E-06	0.532913406	0.921	0.871	0.44281738	1.057405281	T_cells	RPL35A3
EGR2	9.83E-16	0.532577244	0.185	0.07	6.03E-11	2.64E+00	macrophages	EGR2
DKK3	2.43E-50	0.532527566	0.433	0.194	1.49E-45	2.23E+00	VSM_cells	DKK3
LTC4S	0	0.53247838	0.315	0.01	0	31.5	endotheliocyte	LTC4S
RAB34	2.53E-294	0.532434928	0.323	0.052	1.55E-289	6.21E+00	Leydig_cells	RAB34
RBM3	0	0.532391249	0.419	0.175	0	2.394285714	spermatogonia	RBM3
IK	0	0.532245416	0.971	0.535	0	1.814953271	spermatocyte	IK
PRKCE	0	0.532154139	0.458	0.122	0	3.754098361	spermatid	PRKCE
PSME11	6.60E-28	0.532140808	0.276	0.096	4.05E-23	2.88E+00	macrophages	PSME11
GPR135	0	0.532111872	0.582	0.37	0	1.572972973	spermatid	GPR135
CDC423	3.39E-23	0.531987673	0.439	0.416	2.08E-18	1.06E+00	Sertoli_cells	CDC423
MRPL16	4.82E-05	0.531942617	0.225	0.219	1	1.02739726	Sertoli_cells	MRPL16
RBM391	6.99E-38	0.531861938	0.692	0.476	4.29E-33	1.45E+00	endotheliocyte	RBM391
RP11-597D13.8	2.01E-172	0.531695144	0.38	0.248	1.24E-167	1.53E+00	spermatid	RP11-597D13.8
FCGR3A1	2.75E-26	0.531656187	0.132	0.005	1.69E-21	2.64E+01	T_cells	FCGR3A1
NEDD9	3.05E-170	0.531605618	0.323	0.04	1.87E-165	8.08E+00	endotheliocyte	NEDD9
TEK	0	0.531551999	0.295	0.005	0	59	endotheliocyte	TEK
RPL151	1.79E-61	0.531442962	0.958	0.902	1.10E-56	1.06E+00	VSM_cells	RPL151
C9orf153	0	0.531418001	0.474	0.197	0	2.406091371	spermatid	C9orf153
SEMA6C	0	0.531287821	0.219	0.031	0	7.064516129	Sertoli_cells	SEMA6C
ADORA1	0	0.531185617	0.195	0.004	0	48.75	Sertoli_cells	ADORA1
TSPAN4	6.65E-141	0.531141206	0.404	0.071	4.08E-136	5.69E+00	endotheliocyte	TSPAN4
SLC25A32	5.86E-47	0.531083984	0.697	0.436	3.60E-42	1.60E+00	endotheliocyte	SLC25A32
FKBP9	5.55E-258	0.53103768	0.243	0.034	3.41E-253	7.15E+00	Leydig_cells	FKBP9
RPL35A1	3.32E-142	0.530919391	0.944	0.868	2.04E-137	1.09E+00	Leydig_cells	RPL35A1
MT-ND4L	2.94E-105	0.530751402	0.427	0.175	1.80E-100	2.44E+00	Leydig_cells	MT-ND4L
PHOSPHO2	0	0.530620771	0.714	0.202	0	3.534653465	spermatocyte	PHOSPHO2
DOC2A	0	0.530519438	0.478	0.204	0	2.343137255	spermatid	DOC2A
PEG3	1.97E-34	0.530505493	0.391	0.272	1.21E-29	1.44E+00	Leydig_cells	PEG3
RPL18A	0	0.530445024	0.661	0.351	0	1.883190883	spermatogonia	RPL18A
CD91	3.09E-23	0.530176921	0.256	0.094	1.90E-18	2.72E+00	macrophages	CD91
ARHGAP29	5.80E-32	0.530116175	0.499	0.286	3.56E-27	1.74E+00	endotheliocyte	ARHGAP29
NDUFB7	4.00E-38	0.530071271	0.626	0.445	2.46E-33	1.41E+00	VSM_cells	NDUFB7
TYROBP	0.000446872	0.530066976	0.079	0.013	1	6.076923077	T_cells	TYROBP
PNRC2	2.14E-46	0.530006281	0.459	0.206	1.31E-41	2.23E+00	endotheliocyte	PNRC2
LINC00654	0	0.529974167	0.722	0.208	0	3.471153846	spermatocyte	LINC00654
RP11.347H15.5	0	0.529951962	0.264	0.094	0	2.808510638	spermatid	RP11.347H15.5
OS9	6.02E-11	0.529874012	0.316	0.198	3.69E-06	1.60E+00	macrophages	OS9
CHTOP	0	0.529849722	0.546	0.27	0	2.022222222	spermatogonia	CHTOP
MYH9	0.002482454	0.529845354	0.316	0.164	1	1.926829268	T_cells	MYH9
PPDPF	1.27E-38	0.529822815	0.624	0.443	7.79E-34	1.41E+00	VSM_cells	PPDPF
MIF1	1.97E-15	0.529789255	0.226	0.173	1.21E-10	1.31E+00	Sertoli_cells	MIF1
CBR11	1.01E-293	0.529771022	0.416	0.098	6.19E-289	4.24E+00	PTM_cells	CBR11
RAC21	2.35E-39	0.529762145	0.14	0.005	1.44E-34	2.80E+01	mastocyte	RAC21
AMDHD2	0	0.52974715	0.782	0.198	0	3.949494949	spermatocyte	AMDHD2
TEX14	0	0.529738236	0.403	0.129	0	3.124031008	spermatogonia	TEX14
ESAM1	0	0.529699658	0.294	0.019	0	15.47368421	VSM_cells	ESAM1
CALM3	0	0.529613159	0.995	0.824	0	1.207524272	spermatocyte	CALM3
SPATS2	0	0.5294927	0.591	0.351	0	1.683760684	spermatogonia	SPATS2
CENPV1	1.92E-29	0.5294842	0.273	0.19	1.18E-24	1.44E+00	Sertoli_cells	CENPV1
NUP188	0	0.529472495	0.62	0.262	0	2.366412214	spermatocyte	NUP188
SULF1	0	0.529452537	0.467	0.181	0	2.580110497	spermatid	SULF1
RPL321	5.20E-125	0.529384093	0.943	0.886	3.19E-120	1.06E+00	Leydig_cells	RPL321
ST6GAL1	0	0.529374329	0.313	0.005	0	62.6	endotheliocyte	ST6GAL1

ARL6IP4	6.47E-51	0.529357436	0.662	0.399	3.97E-46	1.66E+00	VSM_cells	ARL6IP4
VKORC12	2.80E-71	0.529259025	0.243	0.109	1.72E-66	2.23E+00	Sertoli_cells	VKORC1
RPS13P2	4.46E-05	0.529010305	0.283	0.221	1	1.280542986	macrophages	RPS13P2
RGMA	1.13E-129	0.529005054	0.274	0.075	6.93E-125	3.65E+00	Leydig_cells	RGMA
RPS291	1.08E-31	0.52899503	0.906	0.886	6.60E-27	1.02E+00	macrophages	RPS29
PLBD2	0	0.528839103	0.503	0.28	0	1.796428571	spermatid	PLBD2
HSPA81	1.77E-20	0.528794941	0.7	0.565	1.09E-15	1.24E+00	macrophages	HSPA8
KMT2E	2.09E-34	0.528779102	0.581	0.377	1.28E-29	1.54E+00	endotheliocyte	KMT2E
MRPS9	0	0.528685661	0.74	0.22	0	3.363636364	spermatocyte	MRPS9
SEC63	0	0.528654844	0.63	0.429	0	1.468531469	spermatogonia	SEC63
FGL21	2.47E-168	0.528529553	0.249	0.053	1.52E-163	4.70E+00	Leydig_cells	FGL2
FTL5	4.55E-07	0.528412747	0.789	0.528	0.027896433	1.494318182	T_cells	FTL
FAM104A	0	0.528355673	0.805	0.658	0	1.223404255	spermatid	FAM104A
CATSPER2	0	0.52826884	0.801	0.232	0	3.452586207	spermatocyte	CATSPER2
NEDD8	1.09E-102	0.528190446	0.608	0.408	6.69E-98	1.49E+00	PTM_cells	NEDD8
UBE2K	0	0.52816478	0.861	0.365	0	2.35890411	spermatocyte	UBE2K
EEF2KMT	0	0.528049991	0.426	0.16	0	2.6625	spermatid	EEF2KMT
CCDC109B	2.76E-05	0.528024677	0.184	0.047	1	3.914893617	T_cells	CCDC109B
RPS193	1.37E-140	0.527894719	0.875	0.754	8.41E-136	1.16E+00	Leydig_cells	RPS19
RSRP1	2.56E-43	0.527866177	0.531	0.278	1.57E-38	1.91E+00	endotheliocyte	RSRP1
POLR3C	0	0.527851917	0.554	0.369	0	1.501355014	spermatid	POLR3C
DDR2	3.75E-79	0.527725512	0.323	0.085	2.30E-74	3.80E+00	VSM_cells	DDR2
THBS3	0	0.527662739	0.546	0.283	0	1.929328622	spermatid	THBS3
MYH9	1.44E-62	0.52756478	0.427	0.159	8.85E-58	2.69E+00	VSM_cells	MYH9
DAB1-AS1	4.00E-216	0.52745805	0.362	0.205	2.45E-211	1.77E+00	spermatid	DAB1-AS1
SH3BGRL2	2.71E-228	0.527359126	0.415	0.099	1.66E-223	4.19E+00	Leydig_cells	SH3BGRL
PLA2G6	0	0.527232829	0.682	0.151	0	4.516556291	spermatocyte	PLA2G6
ATXN2L	0	0.527097814	0.853	0.418	0	2.040669856	spermatocyte	ATXN2L
EI24	0	0.527092021	0.485	0.28	0	1.732142857	spermatogonia	EI24
MOK	0	0.527002837	0.91	0.407	0	2.235872236	spermatocyte	MOK
CCDC3	0	0.526972355	0.329	0.035	0	9.4	PTM_cells	CCDC3
EMC7	0	0.526960558	0.84	0.368	0	2.282608696	spermatocyte	EMC7
CHCHD6	0	0.526860052	0.767	0.284	0	2.700704225	spermatocyte	CHCHD6
C1orf87	0	0.526787566	0.537	0.131	0	4.099236641	spermatocyte	C1orf87
UBBP4	0.000160187	0.526675782	0.3	0.131	1	2.290076336	mastocyte	UBBP4
CAV21	1.52E-120	0.526592385	0.336	0.115	9.34E-116	2.92E+00	Leydig_cells	CAV2
RPN1	0	0.526346947	0.537	0.251	0	2.139442231	spermatogonia	RPN1
CIB4	0	0.526138837	0.541	0.172	0	3.145348837	spermatocyte	CIB4
PDE5A1	1.06E-67	0.525986243	0.362	0.118	6.48E-63	3.07E+00	VSM_cells	PDE5A
PRC1.AS1	1.42E-301	0.525971974	0.274	0.105	8.70E-297	2.61E+00	spermatid	PRC1.AS1
MAFB2	0	0.525955533	0.367	0.05	0	7.34	PTM_cells	MAFB
CCER1	0	0.52592958	0.735	0.298	0	2.466442953	spermatocyte	CCER1
RPS216	2.95E-154	0.525777034	0.786	0.512	1.81E-149	1.54E+00	PTM_cells	RPS21
ITGB7	6.93E-39	0.52569687	0.105	0.002	4.25E-34	5.25E+01	T_cells	ITGB7
PPIA6	1.34E-48	0.525367355	0.619	0.628	8.24E-44	9.86E-01	Sertoli_cells	PPIA
RPS101	6.12E-91	0.525353973	0.695	0.533	3.75E-86	1.30E+00	PTM_cells	RPS10
KIAA1462	9.87E-217	0.525216421	0.196	0.035	6.05E-212	5.60E+00	Sertoli_cells	KIAA1462
SCAPER	0	0.525147075	0.565	0.362	0	1.560773481	spermatogonia	SCAPER
EFCAB10	0	0.525139626	0.812	0.274	0	2.96350365	spermatocyte	EFCAB10
GPIHBP1	0	0.525065592	0.243	0.001	0	243	endotheliocyte	GPIHBP1
GPR155	4.13E-51	0.525047992	0.182	0.031	2.53E-46	5.87E+00	macrophages	GPR155
DDX19B	0	0.524963243	0.875	0.324	0	2.700617284	spermatocyte	DDX19B
C3orf38	0	0.524959889	0.832	0.334	0	2.491017964	spermatocyte	C3orf38
FAM3C	9.67E-93	0.524922157	0.335	0.14	5.93E-88	2.39E+00	Leydig_cells	FAM3C
SRSF52	0.006351079	0.524888714	0.605	0.602	1	1.004983389	T_cells	SRSF5
NDUFB11	0	0.524830592	0.483	0.109	0	4.431192661	PTM_cells	NDUFB11
LRP10	4.00E-74	0.524753469	0.365	0.099	2.45E-69	3.69E+00	endotheliocyte	LRP10
LINC00668	0	0.524643822	0.309	0.098	0	3.153061224	spermatogonia	LINC00668
S100A11	3.44E-49	0.524606648	0.65	0.349	2.11E-44	1.86E+00	endotheliocyte	S100A11
ASB9	1.77E-162	0.524547848	0.193	0.042	1.09E-157	4.60E+00	Sertoli_cells	ASB9
TMEM8A	5.55E-58	0.524487703	0.265	0.143	3.40E-53	1.85E+00	Sertoli_cells	TMEM8A
LINC01095	0	0.524458223	0.458	0.184	0	2.489130435	spermatid	LINC01095
NOL4L	0	0.524287782	0.829	0.264	0	3.140151515	spermatocyte	NOL4L
TGS1	0	0.524273679	0.396	0.073	0	5.424657534	spermatogonia	TGS1
C5orf46	0	0.52426913	0.423	0.154	0	2.746753247	spermatid	C5orf46
FRMD6	0	0.524202527	0.546	0.293	0	1.863481229	spermatid	FRMD6
TEKT2	0	0.524190626	0.581	0.345	0	1.684057971	spermatid	TEKT2
GULP1	0	0.524173254	0.47	0.132	0	3.560606061	spermatocyte	GULP1
ANGPTL2	1.54E-262	0.524165875	0.187	0.019	9.47E-258	9.84E+00	Leydig_cells	ANGPTL2
SYNGR2	8.43E-17	0.524015653	0.229	0.099	5.17E-12	2.31E+00	macrophages	SYNGR2
DNAJC2	0	0.523998242	0.945	0.47	0	2.010638298	spermatocyte	DNAJC2
MTRNR2L12	9.85E-88	0.523987285	0.235	0.093	6.04E-83	2.53E+00	Sertoli_cells	MTRNR2L12
PKNOX1	0	0.523973191	0.819	0.292	0	2.804794521	spermatocyte	PKNOX1
PRKACG	0	0.523945588	0.735	0.162	0	4.537037037	spermatocyte	PRKACG
RASL11A	0	0.523905815	0.279	0.01	0	27.9	VSM_cells	RASL11A

ATF43	4.64E-116	0.523864961	0.595	0.347	2.85E-111	1.71E+00	PTM_cells	ATF4
XXyac-YX155B6.5	1.74E-247	0.523803269	0.319	0.16	1.07E-242	1.99E+00	spermatid	XXyac-YX155B6.5
RPL43	6.57E-49	0.523773798	0.831	0.75	4.03E-44	1.11E+00	VSM_cells	RPL4
PCNT	0	0.523755962	0.474	0.183	0	2.590163934	spermatogonia	PCNT
TNFRSF1A	4.25E-226	0.523727969	0.347	0.034	2.61E-221	1.02E+01	endotheliocyte	TNFRSF1A
VGLL4	1.23E-57	0.523572201	0.26	0.139	7.55E-53	1.87E+00	Sertoli_cells	VGLL4
COMT	2.31E-174	0.523534973	0.352	0.094	1.42E-169	3.74E+00	Leydig_cells	COMT
NTF3	0	0.523484414	0.268	0.009	0	29.77777778	VSM_cells	NTF3
ERP291	1.44E-70	0.52342162	0.356	0.197	8.86E-66	1.81E+00	Sertoli_cells	ERP29
SESN1	4.69E-18	0.523329956	0.295	0.248	2.88E-13	1.19E+00	Sertoli_cells	SESN1
RPL131	2.02E-129	0.523283553	0.985	0.955	1.24E-124	1.03E+00	Leydig_cells	RPL13
NCKAP1L	1.59E-178	0.523198106	0.202	0.011	9.75E-174	1.84E+01	macrophages	NCKAP1L
NOL7	0	0.523185703	0.895	0.44	0	2.034090909	spermatocyte	NOL7
LITAF1	0	0.52317669	0.384	0.077	0	4.987012987	PTM_cells	LITAF
RAD51D	0	0.523135333	0.407	0.1	0	4.07	spermatid	RAD51D
S100A112	4.04E-71	0.523128928	0.547	0.345	2.48E-66	1.59E+00	Leydig_cells	S100A11
EWSR1	0	0.523123185	0.942	0.408	0	2.308823529	spermatocyte	EWSR1
MAP3K11	4.95E-124	0.523062298	0.39	0.077	3.04E-119	5.06E+00	endotheliocyte	MAP3K11
SLC35E4	0	0.523039277	0.773	0.224	0	3.450892857	spermatocyte	SLC35E4
SMDT1	0	0.523009221	0.79	0.371	0	2.129380054	spermatocyte	SMDT1
JDP2	2.71E-24	0.523001145	0.138	0.033	1.66E-19	4.18E+00	macrophages	JDP2
PRDX3	8.17E-28	0.522943047	0.218	0.14	5.01E-23	1.56E+00	Sertoli_cells	PRDX3
BUD31	0	0.522787453	0.92	0.485	0	1.896907216	spermatocyte	BUD31
IRF2BP2	1.06E-26	0.522706958	0.526	0.345	6.50E-22	1.52E+00	endotheliocyte	IRF2BP2
CPQ	5.11E-224	0.522706034	0.285	0.054	3.13E-219	5.28E+00	Leydig_cells	CPQ
SIT1	1.58E-265	0.522637158	0.105	0	9.66E-261	#DIV/0!	T_cells	SIT1
SLTM	2.77E-260	0.522597194	0.588	0.447	1.70E-255	1.32E+00	spermatogonia	SLTM
ARHGAP101	8.46E-200	0.522414839	0.41	0.13	5.19E-195	3.15E+00	PTM_cells	ARHGAP10
C6orf62	0	0.52235655	0.63	0.433	0	1.454965358	spermatogonia	C6orf62
TMEM202	0	0.522340532	0.71	0.166	0	4.277108434	spermatocyte	TMEM202
UCHL1	0	0.522324265	0.278	0.056	0	4.964285714	spermatogonia	UCHL1
RPS3AP471	0.000328975	0.522287957	0.275	0.276	1	0.996376812	Leydig_cells	RPS3AP47
PRKAA1	0	0.522252783	0.887	0.371	0	2.39083558	spermatocyte	PRKAA1
TM4SF12	6.94E-139	0.522251239	0.41	0.081	4.26E-134	5.06E+00	VSM_cells	TM4SF1
RP11-168L7.3	0	0.522240912	0.313	0.099	0	3.161616162	spermatid	RP11-168L7.3
CNTN1	3.32E-154	0.52216826	0.283	0.073	2.04E-149	3.88E+00	Leydig_cells	CNTN1
CPPED1	3.52E-181	0.52214898	0.193	0.04	2.16E-176	4.83E+00	Sertoli_cells	CPPED1
DECR1	0	0.522141466	0.862	0.351	0	2.455840456	spermatocyte	DECR1
REEP61	1.43E-22	0.522089449	0.503	0.499	8.75E-18	1.01E+00	Sertoli_cells	REEP6
IFI44	2.76E-105	0.522070405	0.178	0.015	1.69E-100	1.19E+01	macrophages	IFI44
LIMA11	1.93E-66	0.522002078	0.392	0.22	1.19E-61	1.78E+00	Leydig_cells	LIMA1
AC105339.1	0	0.521876655	0.345	0.045	0	7.666666667	spermatid	AC105339.1
EFCAB11	0	0.521785895	0.597	0.426	0	1.401408451	spermatid	EFCAB11
HYPM	0	0.52177643	0.438	0.164	0	2.670731707	spermatid	HYPM
RP4-586O15.1	2.14E-159	0.521768508	0.367	0.239	1.31E-154	1.54E+00	spermatid	RP4-586O15.1
NDUFB8	1.11E-121	0.521716292	0.58	0.327	6.80E-117	1.77E+00	PTM_cells	NDUFB8
TPRG1	0	0.521689055	0.474	0.127	0	3.732283465	spermatocyte	TPRG1
UBA52	0	0.521651043	0.934	0.923	0	1.01191766	spermatid	UBA52
RERG	7.88E-71	0.521613999	0.332	0.102	4.84E-66	3.25E+00	VSM_cells	RERG
EDNRA	3.31E-201	0.521600912	0.243	0.043	2.03E-196	5.65E+00	Leydig_cells	EDNRA
PHB2	1.77E-65	0.521545312	0.421	0.153	1.08E-60	2.75E+00	VSM_cells	PHB2
DRC7	0	0.52151717	0.796	0.231	0	3.445887446	spermatocyte	DRC7
ATXN10	0	0.521120037	0.622	0.401	0	1.551122195	spermatogonia	ATXN10
TGOLN2	0.00010176	0.520992038	0.303	0.248	1	1.221774194	macrophages	TGOLN2
HP1BP3	0	0.520926076	0.591	0.335	0	1.764179104	spermatogonia	HP1BP3
IKZF1	2.99E-48	0.520916942	0.162	0.026	1.83E-43	6.23E+00	macrophages	IKZF1
SEC61G	0	0.520852037	0.655	0.448	0	1.462053571	spermatogonia	SEC61G
SOCS7	0	0.520840878	0.644	0.51	0	1.262745098	spermatid	SOCS7
NR2F2	4.07E-73	0.520538846	0.506	0.165	2.50E-68	3.07E+00	endotheliocyte	NR2F2
RP11.51O6.1	1.31E-07	0.520436573	0.199	0.116	0.008041166	1.715517241	macrophages	RP11.51O6.1
RPS29	1.39E-54	0.520414225	0.943	0.885	8.55E-50	1.07E+00	endotheliocyte	RPS29
GUK11	2.23E-95	0.520383384	0.654	0.501	1.37E-90	1.31E+00	PTM_cells	GUK1
TBC1D1	3.49E-29	0.52033791	0.493	0.329	2.14E-24	1.50E+00	VSM_cells	TBC1D1
ARHGEF3	3.22E-58	0.520297854	0.387	0.133	1.98E-53	2.91E+00	endotheliocyte	ARHGEF3
ATP5G2	1.88E-41	0.52024543	0.705	0.492	1.15E-36	1.43E+00	endotheliocyte	ATP5G2
RGS161	1.79E-105	0.520153582	0.205	0.052	1.10E-100	3.94E+00	Leydig_cells	RGS16
FAM175A	0	0.519966556	0.485	0.261	0	1.858237548	spermatogonia	FAM175A
UQCRH	0	0.519927395	0.607	0.391	0	1.552429668	spermatogonia	UQCRH
RPL44	0.000519066	0.519924222	0.816	0.751	1	1.086551265	T_cells	RPL4
SNRNP200	0	0.519854267	0.545	0.268	0	2.03358209	spermatogonia	SNRNP200
MIR22HG	2.23E-92	0.519828074	0.272	0.096	1.37E-87	2.83E+00	Leydig_cells	MIR22HG
MFSD6L	0	0.51981143	0.771	0.194	0	3.974226804	spermatocyte	MFSD6L
TGFB1	1.32E-44	0.519765459	0.199	0.04	8.12E-40	4.98E+00	macrophages	TGFB1
SCG5	0	0.519712906	0.655	0.139	0	4.712230216	spermatocyte	SCG5
ARHGAP10	5.74E-90	0.519705831	0.327	0.135	3.52E-85	2.42E+00	Leydig_cells	ARHGAP10

EIF4A22	7.22E-83	0.519542936	0.676	0.458	4.43E-78	1.48E+00	Leydig_cells	EIF4A2
CCDC57	0	0.519271059	0.44	0.213	0	2.0657277	spermatid	CCDC57
ATP1B31	1.58E-06	0.519056343	0.579	0.571	0.096890431	1.014010508	macrophages	ATP1B3
AP2B1	0	0.518863384	0.97	0.556	0	1.744604317	spermatocyte	AP2B1
NBEAL1	3.91E-46	0.518845985	0.408	0.193	2.40E-41	2.11E+00	VSM_cells	NBEAL1
SWT1	0	0.518754238	0.852	0.266	0	3.203007519	spermatocyte	SWT1
C3	5.29E-06	0.518751239	0.229	0.154	0.32452869	1.487012987	macrophages	C3
SRRM1	0	0.518724348	0.735	0.555	0	1.324324324	spermatogonia	SRRM1
ATP1B1	3.06E-14	0.518704002	0.29	0.15	1.88E-09	1.93E+00	macrophages	ATP1B1
STUB1	1.49E-17	0.518625615	0.273	0.219	9.13E-13	1.25E+00	Sertoli_cells	STUB1
C4orf32	5.74E-22	0.518563346	0.432	0.287	3.52E-17	1.51E+00	endotheliocyte	C4orf32
CDIPT.AS1	2.78E-287	0.518549586	0.301	0.126	1.70E-282	2.39E+00	spermatid	CDIPT.AS1
LIMS21	2.08E-264	0.518464126	0.311	0.027	1.28E-259	1.15E+01	VSM_cells	LIMS2
PSME2	1.24E-67	0.518342276	0.469	0.169	7.60E-63	2.78E+00	endotheliocyte	PSME2
GYPC1	3.40E-260	0.518056093	0.342	0.034	2.08E-255	1.01E+01	VSM_cells	GYPC
SERINC11	6.33E-17	0.518023358	0.3	0.147	3.88E-12	2.04E+00	macrophages	SERINC1
RP4.584D14.6	0	0.518003532	0.212	0.041	0	5.170731707	spermatid	RP4.584D14.6
TCEAL31	1.71E-120	0.517940653	0.389	0.082	1.05E-115	4.74E+00	VSM_cells	TCEAL3
TRIML1	0	0.517895862	0.406	0.123	0	3.300813008	spermatid	TRIML1
DYNC1L11	0	0.517782125	0.661	0.443	0	1.492099323	spermatogonia	DYNC1L11
AR1	0	0.517640875	0.375	0.05	0	7.5	PTM_cells	AR
LYZL6	0	0.51760714	0.644	0.301	0	2.139534884	spermatocyte	LYZL6
PXN	7.82E-114	0.517510206	0.298	0.048	4.80E-109	6.21E+00	endotheliocyte	PXN
AKR1C21	0	0.51749431	0.364	0.058	0	6.275862069	PTM_cells	AKR1C2
MAT2A	2.61E-06	0.517489273	0.367	0.305	0.160263958	1.203278689	macrophages	MAT2A
ORC2	0	0.517445669	0.764	0.198	0	3.858585859	spermatocyte	ORC2
STAU1	0	0.51742236	0.541	0.25	0	2.164	spermatogonia	STAU1
RPL361	2.67E-92	0.517383298	0.783	0.699	1.64E-87	1.12E+00	Leydig_cells	RPL36
TPP2	0	0.517340236	0.962	0.551	0	1.745916515	spermatocyte	TPP2
PTTG1IP	3.96E-24	0.517188053	0.593	0.44	2.43E-19	1.35E+00	endotheliocyte	PTTG1IP
ZMYND19	0	0.517173496	0.438	0.125	0	3.504	spermatogonia	ZMYND19
RP11.630C16.1	0	0.517167712	0.226	0.046	0	4.913043478	spermatid	RP11.630C16.1
PSME13	0	0.517146063	0.433	0.081	0	5.345679012	PTM_cells	PSME1
EMC3	0	0.517143674	0.91	0.46	0	1.97826087	spermatocyte	EMC3
RBM34	1.30E-211	0.517077791	0.59	0.21	7.99E-207	2.81E+00	PTM_cells	RBM3
POLR2J3	0	0.517066933	0.419	0.096	0	4.364583333	spermatogonia	POLR2J3
NUDT10	2.82E-261	0.516751328	0.192	0.028	1.73E-256	6.86E+00	Sertoli_cells	NUDT10
RBM8A	0	0.516634707	0.69	0.492	0	1.402439024	spermatogonia	RBM8A
FAM49A	5.13E-123	0.516620749	0.152	0.009	3.15E-118	1.69E+01	macrophages	FAM49A
SMARCC1	0	0.516609038	0.579	0.314	0	1.843949045	spermatogonia	SMARCC1
NT5C1B	0	0.516573598	0.533	0.258	0	2.065891473	spermatid	NT5C1B
INCA1	9.15E-127	0.516548072	0.408	0.29	5.61E-122	1.41E+00	spermatogonia	INCA1
MARCKS	5.35E-28	0.51653287	0.442	0.256	3.28E-23	1.73E+00	endotheliocyte	MARCKS
TMEM134	0	0.516512791	0.509	0.281	0	1.8113879	spermatogonia	TMEM134
PPID	0	0.51643159	0.503	0.268	0	1.876865672	spermatogonia	PPID
BTG13	7.24E-84	0.516401369	0.717	0.605	4.44E-79	1.19E+00	PTM_cells	BTG1
AC007969.5	5.91E-06	0.516377966	0.293	0.221	0.362300018	1.325791855	macrophages	AC007969.5
GSN1	5.34E-25	0.516226538	0.438	0.214	3.28E-20	2.05E+00	macrophages	GSN
SLC1A6	7.78E-93	0.516164021	0.211	0.078	4.78E-88	2.71E+00	Sertoli_cells	SLC1A6
RPS185	2.76E-138	0.516067996	0.89	0.851	1.70E-133	1.05E+00	Sertoli_cells	RPS18
NOMO1	0	0.516060344	0.33	0.087	0	3.793103448	spermatogonia	NOMO1
RPL133	3.79E-68	0.516017658	0.962	0.956	2.32E-63	1.01E+00	VSM_cells	RPL13
PPP1R15A5	0.007922494	0.515990471	0.34	0.198	1	1.717171717	mastocyte	PPP1R15A
VPS13C	1.02E-15	0.51593764	0.259	0.122	6.27E-11	2.12E+00	macrophages	VPS13C
LETM2	0	0.515914717	0.738	0.164	0	4.5	spermatocyte	LETM2
PHACTR2	8.90E-117	0.515804114	0.397	0.079	5.46E-112	5.03E+00	endotheliocyte	PHACTR2
ERH	0	0.515783087	0.696	0.532	0	1.308270677	spermatogonia	ERH
TMEM109	8.96E-113	0.515773136	0.306	0.103	5.49E-108	2.97E+00	Leydig_cells	TMEM109
SHROOM4	0	0.51569314	0.283	0.004	0	70.75	endotheliocyte	SHROOM4
MCL13	8.40E-65	0.515463271	0.635	0.525	5.15E-60	1.21E+00	PTM_cells	MCL1
PPP2CA	0	0.51538996	0.542	0.283	0	1.915194346	spermatogonia	PPP2CA
CPQ1	0	0.515378079	0.368	0.048	0	7.666666667	PTM_cells	CPQ
FXYD11	0	0.515354905	0.306	0.041	0	7.463414634	PTM_cells	FXYD1
BMP2K	2.46E-05	0.515330805	0.303	0.243	1	1.24691358	macrophages	BMP2K
KNSTRN	0	0.515252306	0.605	0.424	0	1.426886792	spermatid	KNSTRN
SLC51A	2.18E-133	0.515247198	0.289	0.084	1.34E-128	3.44E+00	Leydig_cells	SLC51A
MAGED22	2.90E-127	0.515225585	0.531	0.134	1.78E-122	3.96E+00	VSM_cells	MAGED2
UBE2F	0	0.515110081	0.426	0.147	0	2.897959184	spermatogonia	UBE2F
C20orf195	6.01E-137	0.515071505	0.399	0.276	3.69E-132	1.45E+00	spermatid	C20orf195
CFAP43	0	0.515063087	0.835	0.294	0	2.840136054	spermatocyte	CFAP43
SEC11A	0	0.515047499	0.593	0.376	0	1.57712766	spermatogonia	SEC11A
RNU6.1064P	8.04E-32	0.514878384	0.15	0.066	4.93E-27	2.27E+00	Leydig_cells	RNU6.1064P
DKFZP434K028	0	0.51476446	0.396	0.058	0	6.827586207	spermatid	DKFZP434K028
SH2D2A	1.13E-48	0.514637605	0.158	0.004	6.94E-44	3.95E+01	T_cells	SH2D2A
ITGB6	0	0.514366731	0.692	0.22	0	3.145454545	spermatocyte	ITGB6

TCF7L1	1.59E-80	0.514264601	0.305	0.126	9.73E-76	2.42E+00	Leydig_cells	TCF7L1
AFAP1	0	0.514257126	0.483	0.243	0	1.987654321	spermatid	AFAP1
BNIP2	6.30E-45	0.514222178	0.452	0.21	3.87E-40	2.15E+00	endotheliocyte	BNIP2
RP11-619L12.4	0	0.514222127	0.303	0.067	0	4.52238806	spermatid	RP11-619L12.4
ANXA7	2.16E-103	0.514150406	0.369	0.152	1.32E-98	2.43E+00	Leydig_cells	ANXA7
LYPLA1	0	0.514040781	0.656	0.517	0	1.268858801	spermatid	LYPLA1
COIL	0	0.51403849	0.915	0.511	0	1.790606654	spermatocyte	COIL
DCAF15	0	0.513945026	0.582	0.179	0	3.251396648	spermatocyte	DCAF15
FAU1	7.64E-23	0.513942349	0.842	0.838	4.68E-18	1.00E+00	macrophages	FAU
KCTD13	3.51E-11	0.513933194	0.289	0.269	2.15E-06	1.07E+00	Sertoli_cells	KCTD13
DCDC2	0	0.513766396	0.665	0.101	0	6.584158416	spermatocyte	DCDC2
MSI2	1.64E-85	0.513725393	0.236	0.098	1.00E-80	2.41E+00	Sertoli_cells	MSI2
AKR1C31	5.95E-246	0.513631983	0.259	0.04	3.65E-241	6.48E+00	Leydig_cells	AKR1C3
MYL12A3	1.03E-19	0.513575355	0.373	0.326	6.33E-15	1.14E+00	Sertoli_cells	MYL12A
NFE2L2	0.000376262	0.513561082	0.424	0.42	1	1.00952381	macrophages	NFE2L2
ADAM18	0	0.513531454	0.702	0.156	0	4.5	spermatocyte	ADAM18
GALK1	6.94E-115	0.51352071	0.172	0.046	4.26E-110	3.74E+00	Sertoli_cells	GALK1
SUMO3	1.96E-285	0.513327672	0.517	0.328	1.20E-280	1.58E+00	spermatogonia	SUMO3
ZNF165	0	0.513309126	0.782	0.219	0	3.570776256	spermatocyte	ZNF165
RPL51	3.82E-135	0.513201975	0.927	0.852	2.34E-130	1.09E+00	Leydig_cells	RPL5
MORN2	0	0.513165478	0.828	0.717	0	1.154811715	spermatid	MORN2
PDCD6	0	0.513102202	0.531	0.291	0	1.824742268	spermatogonia	PDCD6
EIF2AK21	0	0.513018599	0.362	0.057	0	6.350877193	PTM_cells	EIF2AK2
CD164	3.43E-183	0.51299674	0.603	0.461	2.11E-178	1.31E+00	spermatogonia	CD164
COBLL1	5.77E-249	0.512681916	0.275	0.02	3.54E-244	1.38E+01	endotheliocyte	COBLL1
AKR1B1	0	0.512581671	0.337	0.078	0	4.320512821	spermatogonia	AKR1B1
RPSA2	2.08E-68	0.512555245	0.827	0.618	1.27E-63	1.34E+00	VSM_cells	RPSA
LAP3	0	0.512549322	0.775	0.228	0	3.399122807	spermatocyte	LAP3
APMAP	0	0.512438572	0.487	0.187	0	2.604278075	spermatogonia	APMAP
SOCS33	1.66E-208	0.512387425	0.409	0.112	1.02E-203	3.65E+00	PTM_cells	SOCS3
MCM7	0	0.512374625	0.55	0.346	0	1.589595376	spermatogonia	MCM7
CXADR	3.32E-190	0.512313446	0.213	0.047	2.04E-185	4.53E+00	Sertoli_cells	CXADR
S100A113	4.88E-117	0.512298538	0.611	0.341	2.99E-112	1.79E+00	PTM_cells	S100A11
DZIP1	0	0.512236164	0.964	0.492	0	1.959349593	spermatocyte	DZIP1
RNF34	0	0.512215273	0.477	0.254	0	1.877952756	spermatogonia	RNF34
FBXO17	0	0.512043641	0.359	0.041	0	8.756097561	PTM_cells	FBXO17
MYOZ3	0	0.511915333	0.269	0.007	0	38.42857143	PTM_cells	MYOZ3
IFT43	0	0.511851189	0.826	0.28	0	2.95	spermatocyte	IFT43
EDRF1	0.008968155	0.511812581	0.4	0.292	1	1.369863014	mastocyte	EDRF1
C11orf85	0	0.511642388	0.267	0.047	0	5.680851064	spermatogonia	C11orf85
B9D1	0	0.51160664	0.803	0.288	0	2.788194444	spermatocyte	B9D1
PPIF	1.22E-07	0.511602458	0.212	0.125	0.007476248	1.696	macrophages	PPIF
OSTC	7.85E-78	0.511569458	0.414	0.219	4.81E-73	1.89E+00	Leydig_cells	OSTC
ASNS	0	0.511557838	0.486	0.22	0	2.209090909	spermatid	ASNS
BIN1	1.59E-10	0.511351711	0.259	0.149	9.75E-06	1.74E+00	macrophages	BIN1
C5orf49	0	0.511330955	0.59	0.366	0	1.612021858	spermatid	C5orf49
DERL2	0	0.511295618	0.879	0.38	0	2.313157895	spermatocyte	DERL2
NAMPT2	1.54E-52	0.511283259	0.389	0.15	9.45E-48	2.59E+00	VSM_cells	NAMPT
RPS122	1.00E-159	0.511279745	0.925	0.83	6.16E-155	1.11E+00	Leydig_cells	RPS12
PLCB2	1.97E-54	0.511062537	0.162	0.023	1.21E-49	7.04E+00	macrophages	PLCB2
RP11-251P6.1	3.91E-180	0.511020337	0.354	0.219	2.40E-175	1.62E+00	spermatid	RP11-251P6.1
WAS1	3.21E-21	0.510789913	0.158	0.009	1.97E-16	1.76E+01	T_cells	WAS
GLO1	3.50E-69	0.510773272	0.4	0.121	2.15E-64	3.31E+00	endotheliocyte	GLO1
EFR3A	0	0.510758292	0.467	0.167	0	2.796407186	spermatogonia	EFR3A
C10orf53	0	0.510688695	0.891	0.459	0	1.941176471	spermatocyte	C10orf53
NUSAP1	0	0.510646915	0.705	0.167	0	4.221556886	spermatocyte	NUSAP1
CNKSR3	6.29E-50	0.510631525	0.325	0.105	3.86E-45	3.10E+00	endotheliocyte	CNKSR3
TSPAN17	0	0.510490726	0.192	0.018	0	10.66666667	Sertoli_cells	TSPAN17
PSMC6	0	0.510388103	0.445	0.158	0	2.816455696	spermatogonia	PSMC6
SYNJ2BP	0	0.510373592	0.688	0.154	0	4.467532468	spermatocyte	SYNJ2BP
ZFAND4	0	0.510324586	0.659	0.499	0	1.320641283	spermatid	ZFAND4
ASPH	1.86E-227	0.510110179	0.296	0.056	1.14E-222	5.29E+00	Leydig_cells	ASPH
CCDC74A	0	0.510071981	0.93	0.427	0	2.177985948	spermatocyte	CCDC74A
FAM69B	1.94E-137	0.510031735	0.34	0.055	1.19E-132	6.18E+00	endotheliocyte	FAM69B
C6orf163	0	0.509983417	0.392	0.12	0	3.266666667	spermatid	C6orf163
ZBTB20.AS1	0	0.509972167	0.246	0.066	0	3.727272727	spermatid	ZBTB20.AS1
GPX4	0	0.509971826	0.981	0.899	0	1.091212458	spermatid	GPX4
PKD2L2	0	0.509875185	0.673	0.11	0	6.118181818	spermatocyte	PKD2L2
CLIC4	3.30E-33	0.509851854	0.476	0.302	2.02E-28	1.58E+00	VSM_cells	CLIC4
CTDSPL	5.72E-255	0.509837932	0.378	0.09	3.51E-250	4.20E+00	PTM_cells	CTDSPL
PACRG	0	0.509837898	0.843	0.303	0	2.782178218	spermatocyte	PACRG
LRPPRC	3.05E-27	0.509340258	0.293	0.221	1.87E-22	1.33E+00	Sertoli_cells	LRPPRC
MT.ND22	7.11E-07	0.509311874	0.382	0.386	0.043621693	0.989637306	Leydig_cells	MT.ND2
DAB2	1.69E-177	0.509276839	0.367	0.048	1.03E-172	7.65E+00	endotheliocyte	DAB2
CDRT15L2	0	0.509233886	0.63	0.104	0	6.057692308	spermatocyte	CDRT15L2

ZDHC3	0	0.509219507	0.727	0.608	0	1.195723684	spermatid	ZDHC3
FPR1	5.32E-134	0.509212687	0.182	0.012	3.26E-129	1.52E+01	macrophages	FPR1
SMIM23	0	0.509209288	0.357	0.126	0	2.833333333	spermatid	SMIM23
PKN1	0	0.509167941	0.316	0.076	0	4.157894737	spermatogonia	PKN1
ALS2CR12	0	0.509101627	0.664	0.174	0	3.816091954	spermatocyte	ALS2CR12
HTRA12	4.20E-122	0.509087144	0.321	0.059	2.57E-117	5.44E+00	VSM_cells	HTRA1
CTDSP1	0.000278165	0.509034646	0.184	0.056	1	3.285714286	T_cells	CTDSP1
CREB3L2	1.85E-148	0.509018536	0.405	0.159	1.14E-143	2.55E+00	PTM_cells	CREB3L2
TMEM50B	0	0.508980884	0.53	0.329	0	1.610942249	spermatogonia	TMEM50B
YWHAB3	2.96E-57	0.508927258	0.649	0.348	1.82E-52	1.86E+00	VSM_cells	YWHAB
CYP26B1	6.75E-99	0.508870484	0.189	0.048	4.14E-94	3.94E+00	Leydig_cells	CYP26B1
SYCE2	1.67E-241	0.508774296	0.422	0.246	1.02E-236	1.72E+00	spermatogonia	SYCE2
SERPINH11	0	0.508763995	0.418	0.089	0	4.696629213	PTM_cells	SERPINH1
PTCD3	0	0.508664005	0.56	0.31	0	1.806451613	spermatogonia	PTCD3
WISP21	4.18E-116	0.508572417	0.3	0.053	2.56E-111	5.66E+00	VSM_cells	WISP2
GNA13	1.02E-11	0.508530491	0.199	0.095	6.28E-07	2.09E+00	macrophages	GNA13
ZCCHC17	4.97E-305	0.508529265	0.557	0.333	3.05E-300	1.67E+00	spermatogonia	ZCCHC17
LDHB	7.40E-152	0.508527739	0.533	0.208	4.54E-147	2.56E+00	Leydig_cells	LDHB
PPP1R14A	3.08E-167	0.508454621	0.441	0.139	1.89E-162	3.17E+00	Leydig_cells	PPP1R14A
EHD21	0	0.508443837	0.333	0.035	0	9.514285714	PTM_cells	EHD2
DCDC2C	0	0.508406369	0.357	0.05	0	7.14	spermatid	DCDC2C
UIMC1	0	0.508392741	0.531	0.263	0	2.019011407	spermatogonia	UIMC1
PHYHD1	3.21E-284	0.50817898	0.239	0.03	1.97E-279	7.97E+00	Leydig_cells	PHYHD1
HMGB12	3.36E-151	0.508109125	0.791	0.54	2.06E-146	1.46E+00	PTM_cells	HMGB1
SPATA81	0.002165668	0.507869272	0.66	0.556	1	1.18705036	mastocyte	SPATA8
TMEM258	7.49E-234	0.507672005	0.664	0.516	4.59E-229	1.29E+00	spermatogonia	TMEM258
WASF2	0	0.507667771	0.646	0.427	0	1.512880562	spermatogonia	WASF2
LINC00152	8.08E-18	0.507466443	0.132	0.008	4.95E-13	1.65E+01	T_cells	LINC00152
CMTM3	4.01E-31	0.507276451	0.226	0.063	2.46E-26	3.59E+00	macrophages	CMTM3
ABI3BP	2.60E-60	0.507239881	0.238	0.053	1.59E-55	4.49E+00	endotheliocyte	ABI3BP
ATP1B3	0	0.507230839	0.696	0.513	0	1.356725146	spermatid	ATP1B3
AIF1L1	2.35E-124	0.507216343	0.194	0.042	1.44E-119	4.62E+00	Leydig_cells	AIF1L
MEA1	0	0.507158284	0.981	0.622	0	1.577170418	spermatocyte	MEA1
CDKN1A4	2.90E-102	0.506889057	0.292	0.12	1.78E-97	2.43E+00	Sertoli_cells	CDKN1A
EZH2	0	0.506855152	0.858	0.306	0	2.803921569	spermatocyte	EZH2
RP11.234A1.1	4.52E-12	0.506832687	0.182	0.08	2.77E-07	2.28E+00	macrophages	RP11.234A1.1
GEMIN4	0	0.506775694	0.843	0.289	0	2.916955017	spermatocyte	GEMIN4
CMAS	0	0.506621532	0.581	0.256	0	2.26953125	spermatogonia	CMAS
EMP3	1.02E-64	0.506606164	0.457	0.16	6.27E-60	2.86E+00	endotheliocyte	EMP3
SLC2A8	0	0.506557126	0.813	0.288	0	2.822916667	spermatocyte	SLC2A8
GAGE12H	0	0.506548416	0.191	0.007	0	27.28571429	spermatogonia	GAGE12H
CGRRF1	0	0.506370294	0.751	0.271	0	2.771217712	spermatocyte	CGRRF1
MRVI1	1.86E-155	0.506355313	0.362	0.124	1.14E-150	2.92E+00	PTM_cells	MRVI1
JMJD1C	0	0.506339777	0.57	0.315	0	1.80952381	spermatogonia	JMJD1C
PGK11	2.21E-210	0.506336711	0.453	0.145	1.36E-205	3.12E+00	PTM_cells	PGK1
CATSPER3	0	0.506314189	0.439	0.221	0	1.986425339	spermatid	CATSPER3
GATA4	1.22E-120	0.506269355	0.202	0.059	7.47E-116	3.42E+00	Sertoli_cells	GATA4
CCDC14	0	0.50623957	0.526	0.3	0	1.753333333	spermatogonia	CCDC14
OVOS2	1.48E-29	0.506215096	0.334	0.311	9.10E-25	1.07E+00	spermatogonia	OVOS2
CANX	1.62E-244	0.506207559	0.696	0.608	9.96E-240	1.14E+00	spermatogonia	CANX
HLA.DRB1	1.68E-17	0.506197025	0.149	0.056	1.03E-12	2.66E+00	endotheliocyte	HLA.DRB1
CFL1	5.21E-43	0.50619478	0.851	0.735	3.19E-38	1.16E+00	endotheliocyte	CFL1
MIDN3	3.83E-145	0.506128294	0.456	0.186	2.35E-140	2.45E+00	PTM_cells	MIDN
S100A132	5.62E-251	0.506116826	0.402	0.099	3.45E-246	4.06E+00	PTM_cells	S100A13
H1FX1	9.42E-85	0.506036507	0.323	0.132	5.78E-80	2.45E+00	Leydig_cells	H1FX
SLC15A4	0	0.50599309	0.768	0.216	0	3.555555556	spermatocyte	SLC15A4
LPIN2	0	0.505934095	0.367	0.088	0	4.170454545	spermatogonia	LPIN2
ANGPTL4	1.32E-262	0.505893591	0.238	0.032	8.09E-258	7.44E+00	Leydig_cells	ANGPTL4
TMEM159	1.92E-88	0.505887774	0.315	0.075	1.18E-83	4.20E+00	VSM_cells	TMEM159
SRM	0	0.505839184	0.33	0.087	0	3.793103448	spermatogonia	SRM
TUBA1C	7.28E-109	0.505664183	0.328	0.114	4.46E-104	2.88E+00	Leydig_cells	TUBA1C
LDHAL6B	8.83E-209	0.505648293	0.353	0.186	5.42E-204	1.90E+00	spermatogonia	LDHAL6B
SPO11	0	0.505609655	0.247	0.011	0	22.45454545	spermatogonia	SPO11
NME31	8.76E-73	0.50559124	0.397	0.127	5.37E-68	3.13E+00	VSM_cells	NME3
CUL1	0	0.505580575	0.66	0.533	0	1.238273921	spermatid	CUL1
LRRC8A	2.57E-87	0.505576477	0.345	0.079	1.58E-82	4.37E+00	endotheliocyte	LRRC8A
WBP4	0	0.505568751	0.433	0.129	0	3.356589147	spermatogonia	WBP4
CCDC861	0.000180107	0.505480519	0.44	0.26	1	1.692307692	mastocyte	CCDC86
RRM1	0	0.505155806	0.453	0.217	0	2.087557604	spermatogonia	RRM1
MRPL22	0	0.505140196	0.748	0.256	0	2.921875	spermatocyte	MRPL22
MTCH1	6.69E-82	0.505030507	0.414	0.201	4.10E-77	2.06E+00	Leydig_cells	MTCH1
ETS22	5.92E-104	0.505014634	0.309	0.063	3.63E-99	4.90E+00	VSM_cells	ETS2
GFPT1	0	0.504958415	0.869	0.327	0	2.657492355	spermatocyte	GFPT1
CDC25B	0.001570584	0.504844947	0.105	0.026	1	4.038461538	T_cells	CDC25B
RPL281	5.32E-139	0.504774488	0.904	0.819	3.27E-134	1.10E+00	PTM_cells	RPL28

HES12	7.72E-138	0.50466789	0.238	0.071	4.74E-133	3.35E+00	Sertoli_cells	HES1
CPXM2	1.94E-168	0.504654577	0.391	0.135	1.19E-163	2.90E+00	PTM_cells	CPXM2
NDUFS6	0	0.504643386	0.909	0.493	0	1.843813387	spermatocyte	NDUFS6
CCDC39	0	0.504545701	0.746	0.206	0	3.621359223	spermatocyte	CCDC39
MIEN1	0	0.504483581	0.779	0.278	0	2.802158273	spermatocyte	MIEN1
CCNI1	2.89E-62	0.50446094	0.826	0.543	1.78E-57	1.52E+00	endotheliocyte	CCNI
RPS26	1.71E-305	0.504455433	0.681	0.498	1.05E-300	1.37E+00	spermatogonia	RPS26
GYPC	0	0.504451723	0.343	0.023	0	14.91304348	PTM_cells	GYPC
CFAP77	0	0.504409229	0.76	0.207	0	3.671497585	spermatocyte	CFAP77
ITPR3	5.07E-39	0.504380737	0.26	0.164	3.11E-34	1.59E+00	Sertoli_cells	ITPR3
NEDD91	1.32E-31	0.504352298	0.178	0.043	8.11E-27	4.14E+00	macrophages	NEDD9
CSDC2	0	0.504288544	0.196	0.013	0	15.07692308	Sertoli_cells	CSDC2
MAP3K8	3.99E-269	0.504205585	0.333	0.027	2.45E-264	1.23E+01	endotheliocyte	MAP3K8
PRKG1	3.55E-51	0.50408484	0.374	0.151	2.18E-46	2.48E+00	VSM_cells	PRKG1
PLEKHG4	0	0.50402261	0.369	0.064	0	5.765625	spermatogonia	PLEKHG4
NBPF1	1.61E-260	0.503966686	0.48	0.26	9.87E-256	1.85E+00	spermatogonia	NBPF1
ATP5G3	0	0.503961823	0.637	0.401	0	1.588528678	spermatogonia	ATP5G3
CCSER1	0	0.503924888	0.449	0.178	0	2.52247191	spermatid	CCSER1
GLS	8.28E-13	0.503708032	0.263	0.141	5.08E-08	1.87E+00	macrophages	GLS
ADH5	1.50E-52	0.503687116	0.438	0.293	9.19E-48	1.49E+00	Leydig_cells	ADH5
FTMT	1.49E-297	0.503686102	0.586	0.38	9.13E-293	1.54E+00	spermatid	FTMT
KMT2A	2.35E-46	0.503642102	0.397	0.153	1.44E-41	2.59E+00	endotheliocyte	KMT2A
MCF2	0	0.503575806	0.183	0.013	0	14.07692308	Sertoli_cells	MCF2
WSCD1	0	0.503565722	0.349	0.053	0	6.58490566	spermatid	WSCD1
CDC42EP1	4.79E-84	0.503565116	0.266	0.05	2.94E-79	5.32E+00	endotheliocyte	CDC42EP1
C12orf42	0	0.503563207	0.527	0.244	0	2.159836066	spermatid	C12orf42
INHBA	1.56E-140	0.50349055	0.198	0.04	9.58E-136	4.95E+00	Leydig_cells	INHBA
TUBA1B1	2.57E-24	0.503479311	0.768	0.726	1.58E-19	1.06E+00	macrophages	TUBA1B
BTF31	1.64E-111	0.50334134	0.809	0.71	1.01E-106	1.14E+00	PTM_cells	BTF3
KATNB1	0	0.503174997	0.81	0.245	0	3.306122449	spermatocyte	KATNB1
10-Mar	0	0.503003091	0.717	0.538	0	1.332713755	spermatid	10-Mar
GATM	2.00E-09	0.502915885	0.226	0.128	0.000122439	1.765625	macrophages	GATM
RIOK3	0	0.502826062	0.611	0.442	0	1.382352941	spermatid	RIOK3
TTL12	1.78E-207	0.502824335	0.214	0.043	1.09E-202	4.98E+00	Sertoli_cells	TTL12
ZNF487	0	0.502823926	0.525	0.304	0	1.726973684	spermatid	ZNF487
PHLDB2	4.90E-103	0.502818755	0.262	0.048	3.00E-98	5.46E+00	VSM_cells	PHLDB2
CLEC4A	7.09E-108	0.502697865	0.182	0.016	4.35E-103	1.14E+01	macrophages	CLEC4A
RGS6	0	0.50262267	0.421	0.101	0	4.168316832	spermatid	RGS6
DYNLRB1	3.07E-106	0.502390588	0.565	0.348	1.88E-101	1.62E+00	PTM_cells	DYNLRB1
KLF92	2.36E-115	0.50238421	0.371	0.148	1.45E-110	2.51E+00	PTM_cells	KLF9
KLF103	1.35E-100	0.502372696	0.456	0.235	8.31E-96	1.94E+00	PTM_cells	KLF10
CCAR1	0	0.502285853	0.544	0.298	0	1.825503356	spermatogonia	CCAR1
DOT1L	0	0.502263773	0.696	0.255	0	2.729411765	spermatocyte	DOT1L
CYR61	5.85E-91	0.502209312	0.305	0.109	3.59E-86	2.80E+00	Leydig_cells	CYR61
CCDC85B2	6.28E-98	0.501996518	0.444	0.12	3.85E-93	3.70E+00	VSM_cells	CCDC85B
TMEM14C2	4.09E-71	0.501939635	0.49	0.181	2.51E-66	2.71E+00	VSM_cells	TMEM14C
ARPC2	0.005804925	0.501928266	0.763	0.769	1	0.992197659	T_cells	ARPC2
CNN2	0	0.50187137	0.321	0.028	0	11.46428571	PTM_cells	CNN2
GIMAP61	8.82E-23	0.501762722	0.158	0.009	5.41E-18	1.76E+01	T_cells	GIMAP6
CPNE5	0	0.501759969	0.192	0.02	0	9.6	Sertoli_cells	CPNE5
CASP4	0	0.501711154	0.33	0.013	0	25.38461538	endotheliocyte	CASP4
FAM13A	3.63E-124	0.501504351	0.204	0.059	2.23E-119	3.46E+00	Sertoli_cells	FAM13A
RPL305	6.39E-113	0.501483437	0.882	0.878	3.92E-108	1.00E+00	Sertoli_cells	RPL30
ZFAS11	3.48E-08	0.501442264	0.36	0.267	0.002135573	1.348314607	macrophages	ZFAS1
SSH1	1.55E-76	0.501412517	0.273	0.057	9.49E-72	4.79E+00	endotheliocyte	SSH1
RPS265	2.70E-10	0.50134393	0.488	0.542	1.66E-05	9.00E-01	Sertoli_cells	RPS26
KLF7	1.25E-10	0.501170764	0.185	0.089	7.66E-06	2.08E+00	macrophages	KLF7
STAT31	1.21E-46	0.501148544	0.396	0.262	7.44E-42	1.51E+00	Leydig_cells	STAT3
C17orf97	0	0.50114727	0.942	0.447	0	2.10738255	spermatocyte	C17orf97
CSF3R	0	0.501131878	0.152	0.002	0	76	macrophages	CSF3R
IFITM23	1.35E-220	0.501075956	0.489	0.149	8.30E-216	3.28E+00	PTM_cells	IFITM2
RPS27A1	5.76E-26	0.500995502	0.902	0.86	3.54E-21	1.05E+00	macrophages	RPS27A
FAH	4.44E-136	0.500910723	0.175	0.042	2.72E-131	4.17E+00	Sertoli_cells	FAH
BDH2	0	0.500841395	0.367	0.036	0	10.19444444	PTM_cells	BDH2
SNRK	1.29E-40	0.500799751	0.407	0.185	7.94E-36	2.20E+00	endotheliocyte	SNRK
ABCC4	1.85E-181	0.500645479	0.308	0.034	1.14E-176	9.06E+00	endotheliocyte	ABCC4
IDS1	4.38E-190	0.500579389	0.289	0.062	2.68E-185	4.66E+00	Leydig_cells	IDS
KLHL23	3.20E-95	0.500559121	0.275	0.055	1.96E-90	5.00E+00	VSM_cells	KLHL23
LINC00865	1.45E-235	0.500519979	0.285	0.127	8.89E-231	2.24E+00	spermatogonia	LINC00865
GORASP2	0	0.500484669	0.521	0.323	0	1.613003096	spermatid	GORASP2
MIDN1	2.09E-12	0.500359237	0.333	0.198	1.28E-07	1.68E+00	macrophages	MIDN
RBMX	1.09E-51	0.500332288	0.464	0.183	6.69E-47	2.54E+00	endotheliocyte	RBMX
HEXB	5.28E-265	0.500305652	0.244	0.033	3.24E-260	7.39E+00	Leydig_cells	HEXB
IFT88	4.65E-271	0.5002982	0.631	0.471	2.85E-266	1.34E+00	spermatogonia	IFT88
KIF18A	0	0.500276839	0.746	0.185	0	4.032432432	spermatocyte	KIF18A

FNDC11	2.39E-189	0.500137001	0.274	0.133	1.47E-184	2.06E+00	spermatid	FNDC11
PPIC	4.81E-182	0.500071288	0.329	0.082	2.95E-177	4.01E+00	Leydig_cells	PPIC

logFC>1

	p_val	avg_logFC	pct.1	pct.2	p_val_adj	P1/P2	cluster	gene
MGP	0	3.032405707	0.913	0.157	0	5.815286624	endotheliocyte	MGP
B2M	0	2.972316038	0.985	0.242	0	4.070247934	endotheliocyte	B2M
SELE	0	2.915731036	0.598	0.009	0	66.44444444	endotheliocyte	SELE
SPARCL1	0	2.836369742	0.96	0.155	0	6.193548387	endotheliocyte	SPARCL1
TM4SF1	0	2.568463225	0.921	0.073	0	12.61643836	endotheliocyte	TM4SF1
HLA-E	0	2.505912549	0.72	0.079	0	9.113924051	endotheliocyte	HLA-E
TMSB4X	3.33E-302	2.476110042	0.975	0.329	2.05E-297	2.96E+00	endotheliocyte	TMSB4X
VWF	0	2.37655757	0.878	0.037	0	23.72972973	endotheliocyte	VWF
IFI27	0	2.352623412	0.903	0.123	0	7.341463415	endotheliocyte	IFI27
CAV1	0	2.318789327	0.906	0.094	0	9.638297872	endotheliocyte	CAV1
TXNIP	0	2.318291856	0.913	0.163	0	5.601226994	endotheliocyte	TXNIP
EMP1	0	2.28237729	0.866	0.049	0	17.67346939	endotheliocyte	EMP1
HLA-B	4.73E-184	2.279582731	0.72	0.246	2.90E-179	2.93E+00	endotheliocyte	HLA-B
GNG11	0	2.268270205	0.841	0.044	0	19.11363636	endotheliocyte	GNG11
CCL2	0	2.228119092	0.603	0.038	0	15.86842105	endotheliocyte	CCL2
FN1	0	2.226875955	0.702	0.077	0	9.116883117	endotheliocyte	FN1
VIM	1.14E-253	2.189873203	0.983	0.444	7.01E-249	2.21E+00	endotheliocyte	VIM
HLA-C	3.12E-244	2.17739278	0.705	0.17	1.91E-239	4.15E+00	endotheliocyte	HLA-C
RPL10	4.34E-256	2.116374222	0.96	0.357	2.66E-251	2.69E+00	endotheliocyte	RPL10
CLDN5	0	2.102463603	0.663	0.013	0	51	endotheliocyte	CLDN5
HLA.E	1.19E-56	2.087502422	0.241	0.06	7.33E-52	4.02E+00	endotheliocyte	HLA.E
GSN	0	2.062933943	0.94	0.205	0	4.585365854	endotheliocyte	GSN
A2M	0	2.048504704	0.873	0.103	0	8.475728155	endotheliocyte	A2M
IER2	0	2.024419461	0.916	0.168	0	5.452380952	endotheliocyte	IER2
SOCS3	0	2.00066955	0.878	0.115	0	7.634782609	endotheliocyte	SOCS3
KLF2	0	1.990784025	0.861	0.158	0	5.449367089	endotheliocyte	KLF2
NFKBIA	0	1.987110308	0.886	0.204	0	4.343137255	endotheliocyte	NFKBIA
CXCL2	0	1.935127587	0.63	0.041	0	15.36585366	endotheliocyte	CXCL2
IER3	0	1.919546682	0.782	0.099	0	7.898989899	endotheliocyte	IER3
ZFP36	6.38E-304	1.907966106	0.918	0.234	3.92E-299	3.92E+00	endotheliocyte	ZFP36
GADD45B	0	1.890745135	0.906	0.182	0	4.978021978	endotheliocyte	GADD45B
ID1	0	1.857995236	0.685	0.064	0	10.703125	endotheliocyte	ID1
CD74	0	1.842981435	0.898	0.067	0	13.40298507	endotheliocyte	CD74
HLA-A	9.30E-139	1.834798312	0.712	0.303	5.70E-134	2.35E+00	endotheliocyte	HLA-A
JUNB	6.60E-250	1.834618804	0.955	0.34	4.05E-245	2.81E+00	endotheliocyte	JUNB
RPS4X	2.56E-245	1.830493807	0.95	0.34	1.57E-240	2.79E+00	endotheliocyte	RPS4X
IFITM3	0	1.797374488	0.918	0.187	0	4.909090909	endotheliocyte	IFITM3
TIMP3	0	1.796963116	0.868	0.167	0	5.19760479	endotheliocyte	TIMP3
MT2A	2.70E-259	1.792798492	0.839	0.224	1.65E-254	3.75E+00	endotheliocyte	MT2A
S100A6	0	1.790828899	0.854	0.122	0	7	endotheliocyte	S100A6
FOS	8.24E-241	1.767305581	0.931	0.304	5.06E-236	3.06E+00	endotheliocyte	FOS
NEAT1	2.98E-224	1.765348707	0.754	0.189	1.83E-219	3.99E+00	endotheliocyte	NEAT1
ZFP36L2	0	1.761071986	0.854	0.138	0	6.188405797	endotheliocyte	ZFP36L2
SNHG7	1.37E-304	1.72828593	0.794	0.177	8.43E-300	4.49E+00	endotheliocyte	SNHG7
EPAS1	0	1.712286748	0.779	0.074	0	10.52702703	endotheliocyte	EPAS1
CD34	0	1.682683964	0.801	0.057	0	14.05263158	endotheliocyte	CD34
PTRF	0	1.679371486	0.829	0.11	0	7.536363636	endotheliocyte	PTRF
TMSB10	2.08E-226	1.665554042	0.96	0.39	1.28E-221	2.46E+00	endotheliocyte	TMSB10
GADD45A	0	1.663365502	0.722	0.064	0	11.28125	endotheliocyte	GADD45A
IGFBP3	2.27E-93	1.660222572	0.166	0.019	1.39E-88	8.74E+00	endotheliocyte	IGFBP3
PTGS2	0	1.644212345	0.484	0.018	0	26.88888889	endotheliocyte	PTGS2
RHOB	9.58E-265	1.621925627	0.876	0.232	5.88E-260	3.78E+00	endotheliocyte	RHOB
RAMP2	0	1.609266282	0.759	0.065	0	11.67692308	endotheliocyte	RAMP2
TPT1	1.57E-192	1.599333585	0.983	0.857	9.61E-188	1.15E+00	endotheliocyte	TPT1
SAT1	5.88E-298	1.598305134	0.777	0.148	3.61E-293	5.25E+00	endotheliocyte	SAT1
IGFBP7	9.58E-229	1.59761725	0.906	0.278	5.88E-224	3.26E+00	endotheliocyte	IGFBP7
DUSP1	5.45E-301	1.595661545	0.829	0.176	3.34E-296	4.71E+00	endotheliocyte	DUSP1
SLC9A3R2	1.61E-207	1.594084037	0.672	0.17	9.86E-203	3.95E+00	endotheliocyte	SLC9A3R2
CDKN1A	7.69E-306	1.591861843	0.717	0.122	4.72E-301	5.88E+00	endotheliocyte	CDKN1A
MALAT1	2.34E-107	1.590765952	0.943	0.837	1.44E-102	1.13E+00	endotheliocyte	MALAT1
NUAK1	0	1.588474325	0.677	0.02	0	33.85	endotheliocyte	NUAK1
LRRFIP1	0	1.580697332	0.784	0.082	0	9.56097561	endotheliocyte	LRRFIP1
RPL39	4.76E-227	1.580445091	0.881	0.273	2.92E-222	3.23E+00	endotheliocyte	RPL39
IGFBP4	0	1.575891104	0.774	0.077	0	10.05194805	endotheliocyte	IGFBP4
CTGF	0	1.571751968	0.645	0.064	0	10.078125	endotheliocyte	CTGF
SOX17	0	1.568512826	0.663	0.041	0	16.17073171	endotheliocyte	SOX17
SRGN	0	1.557417248	0.752	0.044	0	17.09090909	endotheliocyte	SRGN
ID3	0	1.556311672	0.613	0.039	0	15.71794872	endotheliocyte	ID3
IFITM2	0	1.532415831	0.829	0.156	0	5.314102564	endotheliocyte	IFITM2
PRSS23	0	1.531088707	0.677	0.041	0	16.51219512	endotheliocyte	PRSS23
RPS8	3.04E-176	1.522572512	0.96	0.773	1.87E-171	1.24E+00	endotheliocyte	RPS8
RPL12	1.75E-150	1.520915214	0.923	0.631	1.08E-145	1.46E+00	endotheliocyte	RPL12

S100A10	5.16E-161	1.515633186	0.866	0.434	3.17E-156	2.00E+00	endotheliocyte	S100A10
PTMA1	7.39E-185	1.508545093	0.968	0.652	4.53E-180	1.48E+00	endotheliocyte	PTMA
LIFR	1.10E-269	1.497951787	0.739	0.163	6.73E-265	4.53E+00	endotheliocyte	LIFR
RPS3	1.70E-181	1.488256005	0.975	0.797	1.05E-176	1.22E+00	endotheliocyte	RPS3
CLEC14A	0	1.48514605	0.6	0.019	0	31.57894737	endotheliocyte	CLEC14A
HLA.A	4.32E-14	1.477683996	0.241	0.138	2.65E-09	1.75E+00	endotheliocyte	HLA.A
KCTD12	0	1.476527221	0.663	0.08	0	8.2875	endotheliocyte	KCTD12
BCAM	0	1.476318451	0.744	0.051	0	14.58823529	endotheliocyte	BCAM
RPL13A	2.53E-162	1.456023772	0.965	0.734	1.55E-157	1.31E+00	endotheliocyte	RPL13A
RBP7	0	1.452646007	0.66	0.074	0	8.918918919	endotheliocyte	RBP7
JUN	8.79E-203	1.452046428	0.935	0.362	5.39E-198	2.58E+00	endotheliocyte	JUN
RPL211	7.68E-181	1.451435767	0.955	0.47	4.71E-176	2.03E+00	endotheliocyte	RPL21
RPS18	5.00E-170	1.4492582	0.98	0.851	3.06E-165	1.15E+00	endotheliocyte	RPS18
SLC2A3	0	1.445875386	0.677	0.084	0	8.05952381	endotheliocyte	SLC2A3
NFIB	0	1.44290787	0.71	0.066	0	10.75757576	endotheliocyte	NFIB
RPS28	1.13E-146	1.441003683	0.913	0.606	6.93E-142	1.51E+00	endotheliocyte	RPS28
RPS22	1.89E-161	1.437454203	0.963	0.673	1.16E-156	1.43E+00	endotheliocyte	RPS2
HLA.B	1.20E-16	1.422786518	0.236	0.124	7.38E-12	1.90E+00	endotheliocyte	HLA.B
PTPRB	0	1.412004722	0.64	0.021	0	30.47619048	endotheliocyte	PTPRB
RPL10A	5.10E-158	1.410393523	0.931	0.659	3.13E-153	1.41E+00	endotheliocyte	RPL10A
FOSB	2.35E-209	1.403216114	0.933	0.335	1.44E-204	2.79E+00	endotheliocyte	FOSB
TNFSF10	0	1.39674005	0.682	0.018	0	37.88888889	endotheliocyte	TNFSF10
HLA.C	2.94E-36	1.39488016	0.231	0.076	1.80E-31	3.04E+00	endotheliocyte	HLA.C
HLA-DRA	0	1.392636751	0.618	0.021	0	29.42857143	endotheliocyte	HLA-DRA
HSPB1	3.82E-244	1.391730141	0.836	0.213	2.34E-239	3.92E+00	endotheliocyte	HSPB1
ANXA1	0	1.391355404	0.749	0.072	0	10.40277778	endotheliocyte	ANXA1
BTG2	0	1.39123906	0.759	0.123	0	6.170731707	endotheliocyte	BTG2
RAMP3	0	1.377249177	0.61	0.028	0	21.78571429	endotheliocyte	RAMP3
IFI16	0	1.371787643	0.712	0.076	0	9.368421053	endotheliocyte	IFI16
CEBPD	4.32E-284	1.368877259	0.655	0.105	2.65E-279	6.24E+00	endotheliocyte	CEBPD
ICAM1	0	1.368083735	0.524	0.043	0	12.18604651	endotheliocyte	ICAM1
STOM	2.03E-252	1.354424463	0.697	0.15	1.24E-247	4.65E+00	endotheliocyte	STOM
RPL26	4.33E-143	1.354420403	0.945	0.753	2.66E-138	1.25E+00	endotheliocyte	RPL26
EEF1A1	2.09E-183	1.35440274	0.99	0.924	1.28E-178	1.07E+00	endotheliocyte	EEF1A1
ACKR1	0	1.351787645	0.395	0.005	0	79	endotheliocyte	ACKR1
TAGLN2	1.29E-240	1.351247717	0.799	0.204	7.93E-236	3.92E+00	endotheliocyte	TAGLN2
RPS23	3.23E-169	1.351120301	0.98	0.827	1.98E-164	1.19E+00	endotheliocyte	RPS23
BHLHE40	0	1.350741753	0.64	0.043	0	14.88372093	endotheliocyte	BHLHE40
RPL41	2.18E-148	1.349520512	0.958	0.785	1.34E-143	1.22E+00	endotheliocyte	RPL41
PPP1R15A	9.34E-244	1.345625542	0.797	0.188	5.73E-239	4.24E+00	endotheliocyte	PPP1R15A
IRF1	1.55E-187	1.330295012	0.732	0.216	9.52E-183	3.39E+00	endotheliocyte	IRF1
BST2	0	1.33024352	0.749	0.105	0	7.133333333	endotheliocyte	BST2
RPL18A1	5.29E-152	1.326051032	0.888	0.411	3.24E-147	2.16E+00	endotheliocyte	RPL18A
RPL18	8.00E-144	1.321764054	0.916	0.569	4.91E-139	1.61E+00	endotheliocyte	RPL18
EGFL7	0	1.320021136	0.784	0.1	0	7.84	endotheliocyte	EGFL7
HLA-DRB1	5.24E-235	1.316840033	0.658	0.145	3.21E-230	4.54E+00	endotheliocyte	HLA-DRB1
GIMAP7	0	1.315428428	0.643	0.004	0	160.75	endotheliocyte	GIMAP7
RPL11	3.24E-159	1.306266067	0.973	0.824	1.99E-154	1.18E+00	endotheliocyte	RPL11
LIMS1	1.31E-150	1.300737009	0.7	0.255	8.05E-146	2.75E+00	endotheliocyte	LIMS1
ELK3	0	1.292120274	0.645	0.043	0	15	endotheliocyte	ELK3
EHD4	0	1.285877428	0.65	0.055	0	11.81818182	endotheliocyte	EHD4
SYNE2	2.96E-277	1.278477637	0.697	0.126	1.82E-272	5.53E+00	endotheliocyte	SYNE2
ETS2	0	1.274938294	0.65	0.058	0	11.20689655	endotheliocyte	ETS2
DUSP6	3.75E-276	1.27464422	0.546	0.077	2.30E-271	7.09E+00	endotheliocyte	DUSP6
RPS9	8.13E-170	1.266232601	0.975	0.836	4.99E-165	1.17E+00	endotheliocyte	RPS9
CCDC85B	9.56E-308	1.24600168	0.705	0.117	5.87E-303	6.03E+00	endotheliocyte	CCDC85B
C2CD4B	0	1.244780845	0.409	0.004	0	102.25	endotheliocyte	C2CD4B
TNFAIP3	5.83E-194	1.243957576	0.556	0.11	3.58E-189	5.05E+00	endotheliocyte	TNFAIP3
PECAM1	0	1.24388895	0.486	0.008	0	60.75	endotheliocyte	PECAM1
RPL3	1.27E-156	1.239728985	0.99	0.923	7.79E-152	1.07E+00	endotheliocyte	RPL3
GIMAP8	0	1.239721	0.563	0.003	0	187.6666667	endotheliocyte	GIMAP8
HEG1	0	1.237017124	0.591	0.051	0	11.58823529	endotheliocyte	HEG1
PALMD	2.16E-237	1.236144873	0.635	0.126	1.32E-232	5.04E+00	endotheliocyte	PALMD
MYL12A	7.01E-147	1.234017934	0.774	0.322	4.30E-142	2.40E+00	endotheliocyte	MYL12A
NFKBIZ	0	1.231870532	0.672	0.1	0	6.72	endotheliocyte	NFKBIZ
RPL23	5.65E-146	1.230244154	0.938	0.7	3.47E-141	1.34E+00	endotheliocyte	RPL23
PODXL	0	1.22848414	0.593	0.007	0	84.71428571	endotheliocyte	PODXL
RPS27A	2.97E-158	1.226920436	0.975	0.859	1.82E-153	1.14E+00	endotheliocyte	RPS27A
PTMS	6.62E-248	1.226505649	0.839	0.205	4.06E-243	4.09E+00	endotheliocyte	PTMS
HSPG2	0	1.221664378	0.593	0.052	0	11.40384615	endotheliocyte	HSPG2
ITM2A	0	1.220261336	0.675	0.069	0	9.782608696	endotheliocyte	ITM2A
JUND	1.61E-113	1.219003841	0.841	0.499	9.87E-109	1.69E+00	endotheliocyte	JUND
LMO2	0	1.218805381	0.563	0.021	0	26.80952381	endotheliocyte	LMO2
RDX1	7.26E-171	1.21233291	0.794	0.268	4.45E-166	2.96E+00	endotheliocyte	RDX
RPL36A	1.74E-203	1.208688033	0.64	0.133	1.07E-198	4.81E+00	endotheliocyte	RPL36A

RPS4Y1	4.15E-186	1.205525221	0.826	0.266	2.55E-181	3.11E+00	endotheliocyte	RPS4Y1
RPL6	6.89E-130	1.205347275	0.908	0.681	4.23E-125	1.33E+00	endotheliocyte	RPL6
RPS14	3.92E-143	1.203863428	0.96	0.829	2.40E-138	1.16E+00	endotheliocyte	RPS14
RPLP1	2.68E-144	1.203377743	0.985	0.763	1.64E-139	1.29E+00	endotheliocyte	RPLP1
RPL14	1.55E-127	1.200774612	0.901	0.642	9.52E-123	1.40E+00	endotheliocyte	RPL14
THBD	0	1.200266433	0.561	0.042	0	13.35714286	endotheliocyte	THBD
AHNAK	4.28E-255	1.198802743	0.772	0.163	2.63E-250	4.74E+00	endotheliocyte	AHNAK
RPS171	4.88E-126	1.196227891	0.896	0.468	2.99E-121	1.91E+00	endotheliocyte	RPS17
LMCD1	0	1.193926766	0.613	0.039	0	15.71794872	endotheliocyte	LMCD1
RPL34	5.22E-117	1.192078927	0.98	0.905	3.20E-112	1.08E+00	endotheliocyte	RPL34
CCNL1	3.18E-156	1.187100527	0.816	0.34	1.95E-151	2.40E+00	endotheliocyte	CCNL1
IFIT3	0	1.186087643	0.516	0.024	0	21.5	endotheliocyte	IFIT3
ESAM	0	1.18564561	0.618	0.014	0	44.14285714	endotheliocyte	ESAM
RPL36	2.43E-118	1.185285758	0.903	0.699	1.49E-113	1.29E+00	endotheliocyte	RPL36
CALCRL	0	1.181930641	0.6	0.006	0	100	endotheliocyte	CALCRL
TGFBR2	0	1.180118694	0.573	0.023	0	24.91304348	endotheliocyte	TGFBR2
F8	0	1.176540286	0.591	0.018	0	32.83333333	endotheliocyte	F8
LDB2	0	1.176116554	0.623	0.026	0	23.96153846	endotheliocyte	LDB2
ZFP36L1	1.13E-145	1.173945971	0.856	0.391	6.93E-141	2.19E+00	endotheliocyte	ZFP36L1
RPS191	8.95E-140	1.16908061	0.958	0.756	5.49E-135	1.27E+00	endotheliocyte	RPS19
IFI6	0	1.164181979	0.65	0.089	0	7.303370787	endotheliocyte	IFI6
ADGRF5	0	1.162702155	0.516	0.036	0	14.33333333	endotheliocyte	ADGRF5
GNB2L1	1.30E-74	1.160307049	0.712	0.468	8.00E-70	1.52E+00	endotheliocyte	GNB2L1
EDN1	2.16E-219	1.158274387	0.308	0.029	1.32E-214	1.06E+01	endotheliocyte	EDN1
RPL27A	4.26E-148	1.156193708	0.955	0.785	2.61E-143	1.22E+00	endotheliocyte	RPL27A
RPL8	6.07E-148	1.153994163	0.953	0.854	3.72E-143	1.12E+00	endotheliocyte	RPL8
TSPO	0	1.147741886	0.643	0.084	0	7.654761905	endotheliocyte	TSPO
EFNB2	0	1.145925026	0.558	0.02	0	27.9	endotheliocyte	EFNB2
RPL37	1.85E-159	1.145880837	0.97	0.803	1.13E-154	1.21E+00	endotheliocyte	RPL37
SLC25A25	0	1.140283424	0.573	0.052	0	11.01923077	endotheliocyte	SLC25A25
XAF1	0	1.139580375	0.581	0.039	0	14.8974359	endotheliocyte	XAF1
LY6E	0	1.139393541	0.707	0.11	0	6.427272727	endotheliocyte	LY6E
MT1E	0	1.132163828	0.546	0.061	0	8.950819672	endotheliocyte	MT1E
EFNA1	0	1.128753745	0.529	0.014	0	37.78571429	endotheliocyte	EFNA1
SNHG8	4.33E-140	1.12546591	0.747	0.303	2.65E-135	2.47E+00	endotheliocyte	SNHG8
ACTN4	2.04E-220	1.122427637	0.69	0.156	1.25E-215	4.42E+00	endotheliocyte	ACTN4
MMRN2	0	1.116377598	0.568	0.008	0	71	endotheliocyte	MMRN2
GIMAP4	0	1.107603444	0.6	0.003	0	200	endotheliocyte	GIMAP4
MTUS1	1.09E-228	1.098274234	0.625	0.124	6.66E-224	5.04E+00	endotheliocyte	MTUS1
RPL9	1.96E-154	1.096096034	0.97	0.873	1.20E-149	1.11E+00	endotheliocyte	RPL9
LMNA	1.88E-125	1.094074886	0.784	0.366	1.15E-120	2.14E+00	endotheliocyte	LMNA
PDLIM1	7.68E-289	1.092850036	0.605	0.091	4.71E-284	6.65E+00	endotheliocyte	PDLIM1
MYH9	1.64E-183	1.090737106	0.643	0.157	1.01E-178	4.10E+00	endotheliocyte	MYH9
SDCBP	5.15E-183	1.090142545	0.687	0.185	3.16E-178	3.71E+00	endotheliocyte	SDCBP
SDPR	0	1.087204731	0.444	0.038	0	11.68421053	endotheliocyte	SDPR
SPTBN1	7.27E-147	1.083358676	0.789	0.298	4.46E-142	2.65E+00	endotheliocyte	SPTBN1
FAM110D	0	1.082843095	0.469	0.002	0	234.5	endotheliocyte	FAM110D
CD93	0	1.079894421	0.541	0.02	0	27.05	endotheliocyte	CD93
ANXA2	4.03E-159	1.078539375	0.804	0.289	2.47E-154	2.78E+00	endotheliocyte	ANXA2
KLF6	1.68E-139	1.074170322	0.752	0.285	1.03E-134	2.64E+00	endotheliocyte	KLF6
CRHBP	0	1.073064069	0.449	0.006	0	74.83333333	endotheliocyte	CRHBP
ADIRF	7.29E-223	1.070859829	0.645	0.124	4.47E-218	5.20E+00	endotheliocyte	ADIRF
BTG1	1.20E-108	1.06954412	0.856	0.607	7.34E-104	1.41E+00	endotheliocyte	BTG1
PNRC1	1.66E-123	1.068027613	0.801	0.392	1.02E-118	2.04E+00	endotheliocyte	PNRC1
TM4SF18	0	1.063035687	0.491	0.006	0	81.83333333	endotheliocyte	TM4SF18
NOSTRIN	1.47E-111	1.061846603	0.591	0.224	9.02E-107	2.64E+00	endotheliocyte	NOSTRIN
TCF4	7.44E-127	1.061678617	0.749	0.328	4.56E-122	2.28E+00	endotheliocyte	TCF4
NPDC1	0	1.061356035	0.6	0.068	0	8.823529412	endotheliocyte	NPDC1
LDLR	2.99E-286	1.060730166	0.524	0.066	1.83E-281	7.94E+00	endotheliocyte	LDLR
EMCN	0	1.056736333	0.553	0.003	0	184.3333333	endotheliocyte	EMCN
ENG	0	1.055516562	0.744	0.101	0	7.366336634	endotheliocyte	ENG
GIMAP1	0	1.053501648	0.551	0.002	0	275.5	endotheliocyte	GIMAP1
ZFAS1	9.08E-129	1.051917456	0.692	0.262	5.57E-124	2.64E+00	endotheliocyte	ZFAS1
SOX18	1.72E-120	1.051657828	0.524	0.155	1.06E-115	3.38E+00	endotheliocyte	SOX18
ITM2B	4.16E-164	1.048151145	0.873	0.319	2.55E-159	2.74E+00	endotheliocyte	ITM2B
RPL30	2.76E-147	1.047128415	0.973	0.877	1.70E-142	1.11E+00	endotheliocyte	RPL30
FAM107A	1.24E-249	1.039817456	0.402	0.044	7.62E-245	9.14E+00	endotheliocyte	FAM107A
FXD5	0	1.034307693	0.536	0.018	0	29.77777778	endotheliocyte	FXD5
RPS15	3.39E-114	1.033851216	0.923	0.764	2.08E-109	1.21E+00	endotheliocyte	RPS15
MSN	0	1.03352218	0.581	0.063	0	9.222222222	endotheliocyte	MSN
ATF3	2.91E-216	1.032860886	0.615	0.112	1.79E-211	5.49E+00	endotheliocyte	ATF3
PSMB8	0	1.032128952	0.6	0.029	0	20.68965517	endotheliocyte	PSMB8
AP1S2	2.26E-279	1.030190651	0.618	0.095	1.39E-274	6.51E+00	endotheliocyte	AP1S2
LGALS3	1.88E-190	1.02952398	0.754	0.201	1.15E-185	3.75E+00	endotheliocyte	LGALS3
RPS3A	8.20E-154	1.026736208	0.98	0.897	5.03E-149	1.09E+00	endotheliocyte	RPS3A

ADGRL4	1.39E-162	1.02468763	0.625	0.181	8.51E-158	3.45E+00	endotheliocyte	ADGRL4
RPS261	6.14E-69	1.022765567	0.744	0.535	3.77E-64	1.39E+00	endotheliocyte	RPS26
RPL24	2.87E-112	1.022623662	0.908	0.741	1.76E-107	1.23E+00	endotheliocyte	RPL24
PSMB9	0	1.020254656	0.573	0.03	0	19.1	endotheliocyte	PSMB9
RPL10P3	3.41E-46	1.020006728	0.211	0.053	2.09E-41	3.98E+00	endotheliocyte	RPL10P3
RPL32	2.77E-126	1.01894042	0.975	0.888	1.70E-121	1.10E+00	endotheliocyte	RPL32
RPS15A	3.50E-114	1.017035504	0.931	0.784	2.15E-109	1.19E+00	endotheliocyte	RPS15A
MIDN	1.95E-153	1.01627105	0.66	0.192	1.20E-148	3.44E+00	endotheliocyte	MIDN
CYYR1	0	1.015893623	0.558	0.004	0	139.5	endotheliocyte	CYYR1
ADAMTS1	4.25E-192	1.014250233	0.506	0.085	2.61E-187	5.95E+00	endotheliocyte	ADAMTS1
TSPAN7	0	1.012181941	0.531	0.007	0	75.85714286	endotheliocyte	TSPAN7
RPL22	6.06E-113	1.008194445	0.881	0.645	3.72E-108	1.37E+00	endotheliocyte	RPL22
POSTN	0	1.004912143	0.342	0.003	0	114	endotheliocyte	POSTN
HSPA1A	1.20E-103	1.004122044	0.762	0.357	7.36E-99	2.13E+00	endotheliocyte	HSPA1A
IL33	0	1.003027906	0.514	0.016	0	32.125	endotheliocyte	IL33
TACC1	2.95E-147	1.001437169	0.67	0.204	1.81E-142	3.28E+00	endotheliocyte	TACC1
RNASE1	1.92E-286	1.000831211	0.752	0.133	1.18E-281	5.65E+00	endotheliocyte	RNASE1
RPL19	1.86E-126	1.000741153	0.978	0.837	1.14E-121	1.17E+00	endotheliocyte	RPL19
DCN	0	3.633166533	0.98	0.12	0	8.166666667	Leydig_cells	DCN
CFD	0	3.521249703	0.894	0.057	0	15.68421053	Leydig_cells	CFD
PTGDS	0	2.849301788	0.991	0.666	0	1.487987988	Leydig_cells	PTGDS
PLPP3	0	2.56828911	0.899	0.089	0	10.1011236	Leydig_cells	PLPP3
SFRP1	0	2.343317747	0.822	0.073	0	11.26027397	Leydig_cells	SFRP1
ZFP362	0	2.314730368	0.867	0.217	0	3.995391705	Leydig_cells	ZFP36
IGF1	0	2.3134078	0.836	0.054	0	15.48148148	Leydig_cells	IGF1
COL1A2	0	2.277689388	0.915	0.151	0	6.059602649	Leydig_cells	COL1A2
COL1A1	0	2.271752036	0.862	0.099	0	8.707070707	Leydig_cells	COL1A1
IGF21	0	2.247648276	0.816	0.04	0	20.4	Leydig_cells	IGF2
IGFBP71	0	2.236594021	0.976	0.257	0	3.79766537	Leydig_cells	IGFBP7
LTBP4	0	2.231985259	0.92	0.127	0	7.244094488	Leydig_cells	LTBP4
FOS2	0	2.227875991	0.924	0.286	0	3.230769231	Leydig_cells	FOS
O2-Jun	0	2.221026079	0.928	0.346	0	2.682080925	Leydig_cells	JUN
VIM2	0	2.212831794	0.98	0.429	0	2.284382284	Leydig_cells	VIM
DLK1	0	2.144193788	0.479	0.103	0	4.650485437	Leydig_cells	DLK1
SOCS32	0	2.109417199	0.717	0.1	0	7.17	Leydig_cells	SOCS3
SERPINF1	0	2.098932582	0.889	0.118	0	7.533898305	Leydig_cells	SERPINF1
C1S	0	2.079599276	0.864	0.072	0	12	Leydig_cells	C1S
FOSB2	0	2.06296444	0.859	0.321	0	2.676012461	Leydig_cells	FOSB
APOE	0	2.020922295	0.65	0.17	0	3.823529412	Leydig_cells	APOE
ITM2B2	0	1.971211108	0.933	0.3	0	3.11	Leydig_cells	ITM2B
S100A62	0	1.970358765	0.823	0.103	0	7.990291262	Leydig_cells	S100A6
C1R	0	1.96359901	0.808	0.058	0	13.93103448	Leydig_cells	C1R
COL6A2	0	1.94354344	0.865	0.092	0	9.402173913	Leydig_cells	COL6A2
JUNB2	0	1.94322526	0.905	0.325	0	2.784615385	Leydig_cells	JUNB
ZFP36L12	0	1.926547445	0.861	0.378	0	2.277777778	Leydig_cells	ZFP36L1
PI16	0	1.892281796	0.603	0.042	0	14.35714286	Leydig_cells	PI16
INSL3	0	1.846744554	0.461	0.098	0	4.704081633	Leydig_cells	INSL3
EGR12	0	1.837154908	0.815	0.239	0	3.410041841	Leydig_cells	EGR1
CILP	0	1.837022426	0.715	0.022	0	32.5	Leydig_cells	CILP
MGP1	0	1.83331472	0.883	0.137	0	6.445255474	Leydig_cells	MGP
APOD	0	1.829458666	0.685	0.066	0	10.37878788	Leydig_cells	APOD
CD632	0	1.821037911	0.899	0.266	0	3.379699248	Leydig_cells	CD63
WISP2	0	1.820496705	0.648	0.031	0	20.90322581	Leydig_cells	WISP2
COL3A1	0	1.813938597	0.712	0.151	0	4.715231788	Leydig_cells	COL3A1
GSN2	0	1.81272577	0.762	0.192	0	3.96875	Leydig_cells	GSN
PLAC9	0	1.797889685	0.686	0.061	0	11.24590164	Leydig_cells	PLAC9
FTL2	0	1.77469336	0.943	0.51	0	1.849019608	Leydig_cells	FTL
IFITM32	0	1.771424231	0.908	0.167	0	5.437125749	Leydig_cells	IFITM3
ADAMTS11	0	1.750058172	0.62	0.068	0	9.117647059	Leydig_cells	ADAMTS1
RPL102	0	1.747415614	0.942	0.34	0	2.770588235	Leydig_cells	RPL10
MEG3	0	1.737314393	0.677	0.161	0	4.204968944	Leydig_cells	MEG3
SERPING11	0	1.720103438	0.766	0.089	0	8.606741573	Leydig_cells	SERPING1
CRISPLD2	0	1.714912078	0.699	0.099	0	7.060606061	Leydig_cells	CRISPLD2
PENK	1.06E-278	1.713390984	0.82	0.512	6.48E-274	1.60E+00	Leydig_cells	PENK
AHNAK2	0	1.704105564	0.78	0.146	0	5.342465753	Leydig_cells	AHNAK
COL6A1	0	1.702048661	0.786	0.092	0	8.543478261	Leydig_cells	COL6A1
SEPP11	0	1.69815959	0.808	0.079	0	10.2278481	Leydig_cells	SEPP1
SERPINE2	0	1.693013509	0.783	0.147	0	5.326530612	Leydig_cells	SERPINE2
B2M2	0	1.687255989	0.957	0.222	0	4.310810811	Leydig_cells	B2M
ANXA22	0	1.68348754	0.853	0.272	0	3.136029412	Leydig_cells	ANXA2
COL6A3	0	1.674790312	0.697	0.054	0	12.90740741	Leydig_cells	COL6A3
TIMP11	0	1.652399069	0.807	0.14	0	5.764285714	Leydig_cells	TIMP1
COL15A11	0	1.649542125	0.677	0.106	0	6.386792453	Leydig_cells	COL15A1
H19	0	1.647882654	0.282	0.024	0	11.75	Leydig_cells	H19
ISLR1	0	1.639036081	0.651	0.05	0	13.02	Leydig_cells	ISLR

NR2F21	0	1.629218716	0.784	0.143	0	5.482517483	Leydig_cells	NR2F2
ANGPTL1	0	1.618041373	0.708	0.034	0	20.82352941	Leydig_cells	ANGPTL1
MALAT12	6.12E-263	1.608386613	0.965	0.833	3.76E-258	1.16E+00	Leydig_cells	MALAT1
KLF22	0	1.590872697	0.711	0.145	0	4.903448276	Leydig_cells	KLF2
ITM2A1	0	1.582789536	0.643	0.053	0	12.13207547	Leydig_cells	ITM2A
RHOB2	0	1.56337796	0.756	0.219	0	3.452054795	Leydig_cells	RHOB
LGALS3BP	0	1.562681949	0.763	0.091	0	8.384615385	Leydig_cells	LGALS3BP
LUM	0	1.554177451	0.389	0.022	0	17.68181818	Leydig_cells	LUM
OSR2	0	1.549235359	0.727	0.088	0	8.261363636	Leydig_cells	OSR2
IGFBP6	0	1.54130405	0.487	0.08	0	6.0875	Leydig_cells	IGFBP6
KLF42	2.04E-278	1.512084854	0.782	0.475	1.25E-273	1.65E+00	Leydig_cells	KLF4
IGFBP5	0	1.502298436	0.455	0.055	0	8.272727273	Leydig_cells	IGFBP5
HSPB6	0	1.499121561	0.63	0.186	0	3.387096774	Leydig_cells	HSPB6
CD811	0	1.471679064	0.801	0.296	0	2.706081081	Leydig_cells	CD81
PLTP	0	1.461885923	0.669	0.147	0	4.551020408	Leydig_cells	PLTP
TM4SF11	0	1.460147987	0.658	0.061	0	10.78688525	Leydig_cells	TM4SF1
TIMP2	0	1.454563942	0.836	0.406	0	2.0591133	Leydig_cells	TIMP2
IFITM22	0	1.454348133	0.751	0.14	0	5.364285714	Leydig_cells	IFITM2
EPHX1	0	1.448227669	0.69	0.108	0	6.388888889	Leydig_cells	EPHX1
RPS82	0	1.445120856	0.969	0.768	0	1.26171875	Leydig_cells	RPS8
SPTBN11	0	1.444462024	0.778	0.284	0	2.73943662	Leydig_cells	SPTBN1
SCARA5	0	1.440846036	0.526	0.01	0	52.6	Leydig_cells	SCARA5
GADD45B2	0	1.424966152	0.757	0.168	0	4.505952381	Leydig_cells	GADD45B
BTG22	0	1.422159044	0.64	0.11	0	5.818181818	Leydig_cells	BTG2
LGALS31	0	1.417108574	0.732	0.186	0	3.935483871	Leydig_cells	LGALS3
RPL13A2	0	1.416247622	0.964	0.728	0	1.324175824	Leydig_cells	RPL13A
PPP1R15A2	0	1.414998163	0.714	0.175	0	4.08	Leydig_cells	PPP1R15A
TXNIP2	0	1.412937748	0.752	0.149	0	5.046979866	Leydig_cells	TXNIP
ZFP36L22	0	1.409230687	0.713	0.123	0	5.796747967	Leydig_cells	ZFP36L2
MMP2	0	1.405332911	0.661	0.162	0	4.080246914	Leydig_cells	MMP2
CPE	0	1.379853041	0.77	0.189	0	4.074074074	Leydig_cells	CPE
C7	0	1.368174787	0.295	0.011	0	26.81818182	Leydig_cells	C7
ENTPD2	0	1.364122544	0.518	0.022	0	23.54545455	Leydig_cells	ENTPD2
PNRC12	0	1.349104446	0.778	0.382	0	2.036649215	Leydig_cells	PNRC1
PTMS1	0	1.344447913	0.74	0.192	0	3.854166667	Leydig_cells	PTMS
FSTL1	0	1.340600374	0.604	0.061	0	9.901639344	Leydig_cells	FSTL1
CD991	0	1.339447115	0.789	0.171	0	4.614035088	Leydig_cells	CD99
EBF1	0	1.335977501	0.631	0.115	0	5.486956522	Leydig_cells	EBF1
CST31	0	1.331722646	0.938	0.409	0	2.293398533	Leydig_cells	CST3
CALD1	0	1.331094016	0.842	0.213	0	3.953051643	Leydig_cells	CALD1
ADIRF1	0	1.325742108	0.714	0.106	0	6.735849057	Leydig_cells	ADIRF
GSTP12	0	1.319459543	0.735	0.149	0	4.932885906	Leydig_cells	GSTP1
ATF32	0	1.312104382	0.522	0.102	0	5.117647059	Leydig_cells	ATF3
TIMP31	0	1.311838552	0.755	0.152	0	4.967105263	Leydig_cells	TIMP3
S100A41	0	1.310276366	0.48	0.035	0	13.71428571	Leydig_cells	S100A4
EID11	0	1.305455822	0.843	0.345	0	2.443478261	Leydig_cells	EID1
RPL392	0	1.304145175	0.8	0.26	0	3.076923077	Leydig_cells	RPL39
TSHZ2	0	1.303066271	0.66	0.086	0	7.674418605	Leydig_cells	TSHZ2
CFH1	0	1.302363733	0.61	0.043	0	14.18604651	Leydig_cells	CFH
PTN	5.32E-262	1.297309654	0.503	0.155	3.26E-257	3.25E+00	Leydig_cells	PTN
SSPN	0	1.293939362	0.644	0.073	0	8.821917808	Leydig_cells	SSPN
NBL1	0	1.289352515	0.591	0.078	0	7.576923077	Leydig_cells	NBL1
NEAT12	0	1.288207192	0.617	0.179	0	3.446927374	Leydig_cells	NEAT1
RPS4X2	0	1.285791953	0.896	0.325	0	2.756923077	Leydig_cells	RPS4X
IFI271	0	1.284828615	0.605	0.114	0	5.307017544	Leydig_cells	IFI27
BST22	0	1.28426785	0.695	0.089	0	7.808988764	Leydig_cells	BST2
LGALS1	0	1.283581267	0.74	0.185	0	4	Leydig_cells	LGALS1
PMP22	0	1.272207885	0.653	0.139	0	4.697841727	Leydig_cells	PMP22
PTCH2	0	1.271239363	0.507	0.067	0	7.567164179	Leydig_cells	PTCH2
CEBPD2	0	1.25924178	0.556	0.094	0	5.914893617	Leydig_cells	CEBPD
PSAP1	0	1.256614059	0.863	0.43	0	2.006976744	Leydig_cells	PSAP
OGN	0	1.250605492	0.598	0.056	0	10.67857143	Leydig_cells	OGN
ALDH1A3	0	1.248845245	0.515	0.033	0	15.60606061	Leydig_cells	ALDH1A3
ABCA8	0	1.239065723	0.603	0.134	0	4.5	Leydig_cells	ABCA8
IER22	0	1.238948174	0.686	0.157	0	4.369426752	Leydig_cells	IER2
FCGRT2	0	1.235643671	0.671	0.174	0	3.856321839	Leydig_cells	FCGRT
TUBA1A2	0	1.22293584	0.688	0.183	0	3.759562842	Leydig_cells	TUBA1A
KLF62	1.21E-261	1.205402406	0.655	0.276	7.43E-257	2.37E+00	Leydig_cells	KLF6
KRT13	1.24E-295	1.204452982	0.323	0.054	7.62E-291	5.98E+00	Leydig_cells	KRT13
RPL10A2	0	1.199634424	0.916	0.652	0	1.404907975	Leydig_cells	RPL10A
RPL122	5.07E-301	1.199054977	0.886	0.625	3.11E-296	1.42E+00	Leydig_cells	RPL12
MYC1	0	1.194609979	0.531	0.051	0	10.41176471	Leydig_cells	MYC
FN11	0	1.188320298	0.567	0.065	0	8.723076923	Leydig_cells	FN1
NEGR1	0	1.184893907	0.519	0.036	0	14.41666667	Leydig_cells	NEGR1
RPL232	0	1.184259527	0.909	0.694	0	1.309798271	Leydig_cells	RPL23

FBN1	0	1.179613801	0.555	0.108	0	5.138888889	Leydig_cells	FBN1
ABLIM1	6.07E-273	1.179025351	0.652	0.271	3.72E-268	2.41E+00	Leydig_cells	ABLIM1
RPL412	0	1.175891233	0.955	0.78	0	1.224358974	Leydig_cells	RPL41
MT2A1	4.88E-225	1.171968753	0.567	0.218	2.99E-220	2.60E+00	Leydig_cells	MT2A
NFIA	0	1.164439691	0.643	0.197	0	3.263959391	Leydig_cells	NFIA
EEF1A12	0	1.159985046	0.987	0.922	0	1.070498915	Leydig_cells	EEF1A1
JUND2	1.12E-217	1.153840877	0.781	0.492	6.87E-213	1.59E+00	Leydig_cells	JUND
PTRF1	0	1.153538591	0.612	0.099	0	6.181818182	Leydig_cells	PTRF
EGFR	0	1.146376351	0.506	0.049	0	10.32653061	Leydig_cells	EGFR
TUBB1	0	1.144316889	0.715	0.23	0	3.108695652	Leydig_cells	TUBB
FBLN5	0	1.140763631	0.529	0.078	0	6.782051282	Leydig_cells	FBLN5
APP1	0	1.140695341	0.75	0.328	0	2.286585366	Leydig_cells	APP
HSPA1B2	0	1.139868601	0.607	0.178	0	3.41011236	Leydig_cells	HSPA1B
RARRES2	0	1.137315346	0.565	0.065	0	8.692307692	Leydig_cells	RARRES2
THY1	0	1.134395018	0.453	0.025	0	18.12	Leydig_cells	THY1
PDGFRA	0	1.12484676	0.526	0.049	0	10.73469388	Leydig_cells	PDGFRA
EMP32	0	1.123233358	0.59	0.146	0	4.04109589	Leydig_cells	EMP3
MAF1	0	1.122772721	0.529	0.056	0	9.446428571	Leydig_cells	MAF
PCOLCE	0	1.119615693	0.503	0.101	0	4.98019802	Leydig_cells	PCOLCE
RP5.1052M9.12	2.32E-57	1.114761138	0.35	0.202	1.43E-52	1.73E+00	Leydig_cells	RP5.1052M9.1
FLRT2	0	1.113798876	0.523	0.046	0	11.36956522	Leydig_cells	FLRT2
GSTM5	0	1.112910242	0.47	0.058	0	8.103448276	Leydig_cells	GSTM5
DPEP1	0	1.10689794	0.568	0.153	0	3.712418301	Leydig_cells	DPEP1
C11orf96	0	1.104558804	0.705	0.258	0	2.73255814	Leydig_cells	C11orf96
DPT	0	1.103779379	0.454	0.029	0	15.65517241	Leydig_cells	DPT
FTH12	0	1.102735229	0.969	0.712	0	1.360955056	Leydig_cells	FTH1
LRP11	0	1.102180729	0.562	0.064	0	8.78125	Leydig_cells	LRP1
DUSP12	0	1.102081439	0.65	0.166	0	3.915662651	Leydig_cells	DUSP1
PRRX1	1.55E-264	1.09886664	0.75	0.393	9.48E-260	1.91E+00	Leydig_cells	PRRX1
SNED1	0	1.098710445	0.494	0.041	0	12.04878049	Leydig_cells	SNED1
ECM2	0	1.095150564	0.514	0.044	0	11.68181818	Leydig_cells	ECM2
RPL10P32	5.78E-275	1.094791612	0.287	0.046	3.54E-270	6.24E+00	Leydig_cells	RPL10P3
FXYD6	0	1.093906174	0.595	0.093	0	6.397849462	Leydig_cells	FXYD6
RPL18A3	1.84E-260	1.093560693	0.803	0.401	1.13E-255	2.00E+00	Leydig_cells	RPL18A
ACTB2	0	1.093308235	0.925	0.572	0	1.617132867	Leydig_cells	ACTB
HHIP	0	1.092075877	0.468	0.015	0	31.2	Leydig_cells	HHIP
RPS182	0	1.090066004	0.973	0.848	0	1.14740566	Leydig_cells	RPS18
PKDCC	0	1.079063574	0.435	0.044	0	9.886363636	Leydig_cells	PKDCC
SPARCL11	0	1.076576176	0.784	0.14	0	5.6	Leydig_cells	SPARCL1
NUCKS11	1.36E-267	1.074297792	0.742	0.387	8.35E-263	1.92E+00	Leydig_cells	NUCKS1
MT-ATP62	2.97E-88	1.072513754	0.61	0.427	1.82E-83	1.43E+00	Leydig_cells	MT-ATP6
RPL182	1.10E-268	1.067955012	0.875	0.56	6.76E-264	1.56E+00	Leydig_cells	RPL18
SFRP4	0	1.067575362	0.382	0.04	0	9.55	Leydig_cells	SFRP4
LY6E1	0	1.057105587	0.562	0.1	0	5.62	Leydig_cells	LY6E
TMSB4X2	0	1.054390109	0.908	0.314	0	2.891719745	Leydig_cells	TMSB4X
MYADM1	1.27E-212	1.052694682	0.546	0.21	7.81E-208	2.60E+00	Leydig_cells	MYADM
NDRG2	0	1.050426519	0.497	0.063	0	7.888888889	Leydig_cells	NDRG2
KCTD122	0	1.048578006	0.51	0.071	0	7.183098592	Leydig_cells	KCTD12
FBLN2	0	1.047158475	0.504	0.071	0	7.098591549	Leydig_cells	FBLN2
LMNA2	2.60E-267	1.046743052	0.726	0.357	1.60E-262	2.03E+00	Leydig_cells	LMNA
RHOBTB3	0	1.046622568	0.575	0.121	0	4.752066116	Leydig_cells	RHOBTB3
DAB22	0	1.04620679	0.492	0.033	0	14.90909091	Leydig_cells	DAB2
TPT12	0	1.045331013	0.975	0.854	0	1.141686183	Leydig_cells	TPT1
ARX	0	1.042068175	0.451	0.032	0	14.09375	Leydig_cells	ARX
ENG1	0	1.04088765	0.636	0.087	0	7.310344828	Leydig_cells	ENG
CLEC3B	0	1.038076697	0.485	0.085	0	5.705882353	Leydig_cells	CLEC3B
NFKBIA2	0	1.036400864	0.676	0.194	0	3.484536082	Leydig_cells	NFKBIA
PPIB	9.65E-237	1.035017928	0.627	0.279	5.92E-232	2.25E+00	Leydig_cells	PPIB
MT-CYB2	3.40E-101	1.034136896	0.608	0.389	2.09E-96	1.56E+00	Leydig_cells	MT-CYB
PRDX21	0	1.031716599	0.585	0.09	0	6.5	Leydig_cells	PRDX2
EMP11	0	1.030902574	0.436	0.045	0	9.688888889	Leydig_cells	EMP1
HLA-A2	4.62E-139	1.023656583	0.548	0.298	2.83E-134	1.84E+00	Leydig_cells	HLA-A
FGFR11	0	1.021635475	0.538	0.118	0	4.559322034	Leydig_cells	FGFR1
RPLP12	0	1.019549611	0.966	0.758	0	1.274406332	Leydig_cells	RPLP1
MT-ND32	2.02E-108	1.014141965	0.601	0.365	1.24E-103	1.65E+00	Leydig_cells	MT-ND3
LHFP	5.36E-242	1.012497173	0.547	0.202	3.29E-237	2.71E+00	Leydig_cells	LHFP
CAV11	0	1.008787582	0.601	0.084	0	7.154761905	Leydig_cells	CAV1
GADD45G	0	1.008432318	0.429	0.064	0	6.703125	Leydig_cells	GADD45G
LEPROT1	0	1.008343201	0.574	0.156	0	3.679487179	Leydig_cells	LEPROT
NRK	0	1.004504364	0.415	0.016	0	25.9375	Leydig_cells	NRK
RPL213	4.73E-299	1.002446263	0.905	0.459	2.90E-294	1.97E+00	Leydig_cells	RPL21
CD741	0	4.589360307	0.939	0.07	0	13.41428571	macrophages	CD74
CXCL8	0	4.335967189	0.842	0.024	0	35.08333333	macrophages	CXCL8
HLA.DRA	0	4.081392803	0.552	0.018	0	30.66666667	macrophages	HLA.DRA
CCL3L3	0	4.004574474	0.811	0.023	0	35.26086957	macrophages	CCL3L3

CCL4L2	0	3.863038733	0.811	0.017	0	47.70588235	macrophages	CCL4L2
IL1B	0	3.839781479	0.788	0.015	0	52.53333333	macrophages	IL1B
CCL3	0	3.810209385	0.788	0.011	0	71.63636364	macrophages	CCL3
HLA-DRA1	6.35E-294	3.715834332	0.384	0.026	3.90E-289	1.48E+01	macrophages	HLA-DRA
HLA.DRB11	0	3.378041701	0.556	0.051	0	10.90196078	macrophages	HLA.DRB1
SRGN1	0	3.360395466	0.889	0.046	0	19.32608696	macrophages	SRGN
CCL4	0	3.278722374	0.731	0.056	0	13.05357143	macrophages	CCL4
CXCL31	0	3.207505116	0.71	0.024	0	29.58333333	macrophages	CXCL3
HLA.DPA1	0	3.111717823	0.539	0.008	0	67.375	macrophages	HLA.DPA1
RGS1	0	3.005160059	0.768	0.005	0	153.6	macrophages	RGS1
CXCL21	0	3.001068413	0.774	0.042	0	18.42857143	macrophages	CXCL2
GPR183	0	2.983887021	0.781	0.006	0	130.1666667	macrophages	GPR183
TNFAIP31	0	2.95978865	0.815	0.109	0	7.47706422	macrophages	TNFAIP3
NFKBIA1	2.75E-242	2.859832344	0.855	0.207	1.69E-237	4.13E+00	macrophages	NFKBIA
CD83	0	2.835161206	0.828	0.063	0	13.14285714	macrophages	CD83
HLA.DQA1	0	2.811853558	0.508	0.004	0	127	macrophages	HLA.DQA1
HLA-DPB11	1.78E-213	2.806914001	0.357	0.032	1.09E-208	1.12E+01	macrophages	HLA-DPB1
KLF61	7.89E-195	2.760582322	0.865	0.285	4.84E-190	3.04E+00	macrophages	KLF6
HLA-DPA11	8.53E-263	2.737647298	0.347	0.024	5.23E-258	1.45E+01	macrophages	HLA-DPA1
HLA.DPB1	0	2.69855066	0.542	0.005	0	108.4	macrophages	HLA.DPB1
HLA-DRB11	1.36E-34	2.696634654	0.357	0.15	8.33E-30	2.38E+00	macrophages	HLA-DRB1
HLA.DRB5	0	2.678477625	0.471	0.015	0	31.4	macrophages	HLA.DRB5
NLRP3	0	2.634359563	0.7	0.007	0	100	macrophages	NLRP3
B2M1	1.20E-272	2.609591997	0.963	0.245	7.35E-268	3.93E+00	macrophages	B2M
HLA.DQB1	0	2.528569358	0.502	0.021	0	23.9047619	macrophages	HLA.DQB1
FTL1	1.08E-161	2.470003802	0.963	0.523	6.62E-157	1.84E+00	macrophages	FTL
ANXA11	0	2.42010897	0.724	0.075	0	9.653333333	macrophages	ANXA1
NR4A21	1.15E-295	2.413191552	0.811	0.143	7.05E-291	5.67E+00	macrophages	NR4A2
TYROBP	0	2.409168261	0.815	0.004	0	203.75	macrophages	TYROBP
C1QA	0	2.381767492	0.68	0.002	0	340	macrophages	C1QA
C5AR1	0	2.38172501	0.633	0.017	0	37.23529412	macrophages	C5AR1
NFKBIZ1	0	2.361850579	0.801	0.101	0	7.930693069	macrophages	NFKBIZ
FTH1P10	7.89E-99	2.315698459	0.539	0.158	4.84E-94	3.41E+00	macrophages	FTH1P10
SAT11	6.92E-271	2.294417693	0.815	0.15	4.24E-266	5.43E+00	macrophages	SAT1
IER31	2.18E-255	2.287986297	0.68	0.103	1.34E-250	6.60E+00	macrophages	IER3
TMSB4X1	1.10E-194	2.264526486	0.949	0.332	6.72E-190	2.86E+00	macrophages	TMSB4X
BCL2A1	0	2.257895857	0.599	0.015	0	39.93333333	macrophages	BCL2A1
RGS2	2.38E-220	2.2522595	0.694	0.133	1.46E-215	5.22E+00	macrophages	RGS2
PLAUR	0	2.248061266	0.714	0.024	0	29.75	macrophages	PLAUR
S100A4	0	2.188441483	0.724	0.046	0	15.73913043	macrophages	S100A4
LYZ	0	2.184696671	0.653	0.003	0	217.6666667	macrophages	LYZ
FTH11	8.89E-143	2.140501428	0.98	0.72	5.45E-138	1.36E+00	macrophages	FTH1
MS4A6A	0	2.135819205	0.724	0.005	0	144.8	macrophages	MS4A6A
HLA.E1	1.22E-269	2.104158287	0.532	0.058	7.47E-265	9.17E+00	macrophages	HLA.E
DUSP11	1.27E-202	2.093974562	0.781	0.18	7.79E-198	4.34E+00	macrophages	DUSP1
SGK1	1.79E-177	2.061884473	0.7	0.173	1.10E-172	4.05E+00	macrophages	SGK1
C1QB	0	2.056014741	0.556	0.002	0	278	macrophages	C1QB
C1QC	0	2.051554057	0.552	0.002	0	276	macrophages	C1QC
HLA.B1	1.14E-127	2.04643206	0.532	0.121	7.02E-123	4.40E+00	macrophages	HLA.B
LAPTM5	0	2.033019968	0.684	0.007	0	97.71428571	macrophages	LAPTM5
SEPP1	3.86E-105	2.031029956	0.471	0.106	2.37E-100	4.44E+00	macrophages	SEPP1
PLEK	0	2.028361081	0.65	0.012	0	54.16666667	macrophages	PLEK
CD14	0	2.017035062	0.613	0.01	0	61.3	macrophages	CD14
FCER1A	0	2.015355891	0.438	0.002	0	219	macrophages	FCER1A
CST3	5.11E-164	1.982393292	0.963	0.426	3.13E-159	2.26E+00	macrophages	CST3
FCER1G	0	1.979915598	0.613	0.005	0	122.6	macrophages	FCER1G
HLA-DQA1	0	1.979835595	0.337	0.003	0	112.3333333	macrophages	HLA-DQA1
ID21	7.33E-256	1.975583075	0.717	0.119	4.50E-251	6.03E+00	macrophages	ID2
PPP1R15A1	3.57E-203	1.963287413	0.798	0.191	2.19E-198	4.18E+00	macrophages	PPP1R15A
AIF1	0	1.938875441	0.657	0.002	0	328.5	macrophages	AIF1
HLA-DRB51	7.74E-56	1.915584107	0.313	0.081	4.75E-51	3.86E+00	macrophages	HLA-DRB5
CXCR4	0	1.868015577	0.451	0.012	0	37.58333333	macrophages	CXCR4
NR4A3	0	1.806387654	0.549	0.031	0	17.70967742	macrophages	NR4A3
HLA-DQB1	4.81E-274	1.804545277	0.32	0.019	2.95E-269	1.68E+01	macrophages	HLA-DQB1
NAMPT1	8.62E-183	1.793723594	0.68	0.148	5.29E-178	4.59E+00	macrophages	NAMPT
ZFP36L21	3.80E-194	1.787303812	0.707	0.142	2.33E-189	4.98E+00	macrophages	ZFP36L2
MAFB	1.53E-305	1.77791731	0.572	0.06	9.41E-301	9.53E+00	macrophages	MAFB
CTSS	0	1.771926579	0.657	0.019	0	34.57894737	macrophages	CTSS
NR4A1	8.02E-128	1.726285447	0.758	0.256	4.92E-123	2.96E+00	macrophages	NR4A1
ZFP361	8.31E-187	1.723357055	0.869	0.237	5.09E-182	3.67E+00	macrophages	ZFP36
FCGR2A	0	1.722879297	0.643	0.045	0	14.28888889	macrophages	FCGR2A
HLA.A1	3.29E-105	1.700070092	0.522	0.135	2.02E-100	3.87E+00	macrophages	HLA.A
PNRC11	1.56E-128	1.698288589	0.852	0.393	9.56E-124	2.17E+00	macrophages	PNRC1
HSPA1A1	1.21E-65	1.694760997	0.694	0.36	7.42E-61	1.93E+00	macrophages	HSPA1A
ITGB2	0	1.692615818	0.616	0.003	0	205.3333333	macrophages	ITGB2

TSC22D31	2.25E-153	1.69126961	0.626	0.142	1.38E-148	4.41E+00	macrophages	TSC22D3
PTGS21	0	1.68912041	0.488	0.02	0	24.4	macrophages	PTGS2
CD163	0	1.675680789	0.572	0.023	0	24.86956522	macrophages	CD163
FOSB1	3.10E-136	1.667658354	0.875	0.338	1.90E-131	2.59E+00	macrophages	FOSB
FGL2	0	1.643122658	0.586	0.055	0	10.65454545	macrophages	FGL2
CEBPD1	9.08E-183	1.620356599	0.603	0.108	5.57E-178	5.58E+00	macrophages	CEBPD
NEAT11	3.80E-84	1.61752173	0.599	0.193	2.33E-79	3.10E+00	macrophages	NEAT1
MCL11	6.55E-108	1.609226058	0.865	0.526	4.02E-103	1.64E+00	macrophages	MCL1
PTPRC	0	1.598383553	0.569	0.014	0	40.64285714	macrophages	PTPRC
CSF1R	0	1.576215485	0.545	0.026	0	20.96153846	macrophages	CSF1R
MS4A7	0	1.56799413	0.535	0.006	0	89.16666667	macrophages	MS4A7
CYBA	0	1.553744983	0.529	0.035	0	15.11428571	macrophages	CYBA
P2RY13	0	1.548824962	0.458	0.001	0	458	macrophages	P2RY13
DUSP61	3.33E-125	1.54804193	0.438	0.08	2.04E-120	5.48E+00	macrophages	DUSP6
BTG11	9.83E-71	1.546449127	0.798	0.609	6.03E-66	1.31E+00	macrophages	BTG1
STK17B	2.01E-121	1.543343985	0.582	0.157	1.24E-116	3.71E+00	macrophages	STK17B
FOS1	2.20E-119	1.54216855	0.835	0.308	1.35E-114	2.71E+00	macrophages	FOS
CLEC7A	0	1.531270952	0.549	0.006	0	91.5	macrophages	CLEC7A
HLA.C1	4.11E-123	1.528681743	0.421	0.074	2.52E-118	5.69E+00	macrophages	HLA.C
ACTB1	3.64E-106	1.509246123	0.926	0.583	2.23E-101	1.59E+00	macrophages	ACTB
CCL21	1.52E-57	1.493944747	0.236	0.044	9.32E-53	5.36E+00	macrophages	CCL2
PDE4B	0	1.490090213	0.498	0.043	0	11.58139535	macrophages	PDE4B
PMAIP1	3.56E-241	1.485698813	0.418	0.038	2.18E-236	1.10E+01	macrophages	PMAIP1
CTSB	3.02E-91	1.481805526	0.606	0.215	1.85E-86	2.82E+00	macrophages	CTSB
DUSP2	3.79E-274	1.480870762	0.492	0.047	2.32E-269	1.05E+01	macrophages	DUSP2
OTUD1	1.21E-105	1.477728232	0.539	0.147	7.40E-101	3.67E+00	macrophages	OTUD1
TPT11	1.71E-118	1.466023672	0.976	0.858	1.05E-113	1.14E+00	macrophages	TPT1
IER51	9.30E-132	1.456255253	0.566	0.131	5.71E-127	4.32E+00	macrophages	IER5
ETS21	3.39E-271	1.448159374	0.552	0.062	2.08E-266	8.90E+00	macrophages	ETS2
SMAP2	3.10E-92	1.43918841	0.593	0.21	1.90E-87	2.82E+00	macrophages	SMAP2
MT.ND51	5.47E-38	1.429534216	0.559	0.315	3.35E-33	1.77E+00	macrophages	MT.ND5
ZFP36L11	8.41E-76	1.429311507	0.744	0.394	5.16E-71	1.89E+00	macrophages	ZFP36L1
HERPUD1	6.16E-62	1.428363921	0.657	0.364	3.78E-57	1.80E+00	macrophages	HERPUD1
ICAM11	3.79E-277	1.417728326	0.488	0.046	2.33E-272	1.06E+01	macrophages	ICAM1
ALOX5AP	0	1.416322288	0.508	0.019	0	26.73684211	macrophages	ALOX5AP
VSIG4	0	1.409376174	0.512	0.023	0	22.26086957	macrophages	VSIG4
F13A1	2.09E-302	1.409151797	0.451	0.036	1.28E-297	1.25E+01	macrophages	F13A1
CDKN1A1	1.34E-141	1.406740432	0.589	0.126	8.24E-137	4.67E+00	macrophages	CDKN1A
CLEC10A	0	1.404909148	0.471	0.003	0	157	macrophages	CLEC10A
GPX1	1.31E-82	1.402103083	0.721	0.355	8.01E-78	2.03E+00	macrophages	GPX1
PSAP	7.38E-86	1.394293098	0.828	0.444	4.53E-81	1.86E+00	macrophages	PSAP
PDK41	1.53E-36	1.393845721	0.29	0.093	9.38E-32	3.12E+00	macrophages	PDK4
OLR1	7.97E-143	1.390540871	0.401	0.059	4.89E-138	6.80E+00	macrophages	OLR1
TNF	0	1.38956989	0.32	0.004	0	80	macrophages	TNF
CYBB	0	1.38168933	0.448	0.002	0	224	macrophages	CYBB
MARCKS1	1.60E-81	1.37776138	0.623	0.254	9.79E-77	2.45E+00	macrophages	MARCKS
ATF31	1.77E-142	1.369860206	0.569	0.114	1.09E-137	4.99E+00	macrophages	ATF3
FCGR2B	0	1.369614344	0.444	0.008	0	55.5	macrophages	FCGR2B
IER21	4.99E-106	1.368906945	0.63	0.175	3.06E-101	3.60E+00	macrophages	IER2
TMSB101	1.15E-137	1.366977128	0.933	0.392	7.03E-133	2.38E+00	macrophages	TMSB10
MRC1	6.31E-150	1.365404231	0.458	0.075	3.87E-145	6.11E+00	macrophages	MRC1
MALAT11	2.20E-63	1.362323653	0.963	0.837	1.35E-58	1.15E+00	macrophages	MALAT1
ITM2B1	1.25E-123	1.339999335	0.852	0.321	7.64E-119	2.65E+00	macrophages	ITM2B
GLIPR1	8.17E-133	1.337599202	0.539	0.12	5.01E-128	4.49E+00	macrophages	GLIPR1
FXYD51	0	1.336513124	0.502	0.021	0	23.9047619	macrophages	FXYD5
OGFRL1	0	1.331495733	0.498	0.025	0	19.92	macrophages	OGFRL1
RNASE11	3.80E-29	1.329476076	0.347	0.14	2.33E-24	2.48E+00	macrophages	RNASE1
CDH1	9.49E-229	1.325930629	0.34	0.026	5.82E-224	1.31E+01	macrophages	CDH1
VIM1	6.53E-101	1.324606416	0.879	0.448	4.01E-96	1.96E+00	macrophages	VIM
HLA-B1	1.04E-14	1.312680896	0.374	0.252	6.35E-10	1.48E+00	macrophages	HLA-B
RHOB1	2.17E-91	1.312235456	0.673	0.237	1.33E-86	2.84E+00	macrophages	RHOB
HCLS1	0	1.307447331	0.488	0.008	0	61	macrophages	HCLS1
EMP31	2.41E-106	1.295256119	0.572	0.16	1.48E-101	3.58E+00	macrophages	EMP3
KLF41	5.09E-61	1.293740014	0.747	0.485	3.12E-56	1.54E+00	macrophages	KLF4
LST1	0	1.290623757	0.441	0.009	0	49	macrophages	LST1
RPL101	5.21E-120	1.28489913	0.909	0.36	3.20E-115	2.53E+00	macrophages	RPL10
FCGR3A	0	1.279150227	0.377	0.001	0	377	macrophages	FCGR3A
RPL10P31	1.05E-148	1.278221674	0.391	0.052	6.41E-144	7.52E+00	macrophages	RPL10P3
HCST	0	1.271441825	0.451	0.014	0	32.21428571	macrophages	HCST
CSRNP11	7.34E-93	1.261188603	0.576	0.179	4.50E-88	3.22E+00	macrophages	CSRNP1
RNASET2	1.43E-107	1.2589285	0.519	0.132	8.80E-103	3.93E+00	macrophages	RNASET2
RP5.1052M9.11	4.27E-45	1.257838867	0.478	0.205	2.62E-40	2.33E+00	macrophages	RP5.1052M9.1
REL1	5.34E-124	1.255264715	0.508	0.11	3.27E-119	4.62E+00	macrophages	REL
B3GNT5	3.40E-72	1.248591621	0.418	0.118	2.08E-67	3.54E+00	macrophages	B3GNT5
ARHGDI1	2.12E-292	1.241598905	0.441	0.035	1.30E-287	1.26E+01	macrophages	ARHGDI1

MSR1	0	1.235968556	0.431	0.019	0	22.68421053	macrophages	MSR1
IL13RA1	1.01E-133	1.230880475	0.519	0.106	6.20E-129	4.90E+00	macrophages	IL13RA1
HLA.DMA	0	1.228475842	0.32	0.005	0	64	macrophages	HLA.DMA
GADD45B1	2.09E-146	1.224017416	0.744	0.187	1.28E-141	3.98E+00	macrophages	GADD45B
HSPA1B1	8.07E-40	1.223239002	0.451	0.193	4.95E-35	2.34E+00	macrophages	HSPA1B
MT.CYB1	3.90E-35	1.221395734	0.572	0.332	2.39E-30	1.72E+00	macrophages	MT.CYB
FOLR2	0	1.2137189	0.35	0.004	0	87.5	macrophages	FOLR2
TXNIP1	1.04E-77	1.212123425	0.549	0.171	6.37E-73	3.21E+00	macrophages	TXNIP
RPL231	3.94E-87	1.208457675	0.902	0.701	2.42E-82	1.29E+00	macrophages	RPL23
RPL391	1.92E-93	1.207891526	0.747	0.277	1.18E-88	2.70E+00	macrophages	RPL39
JUND1	2.09E-83	1.200498675	0.838	0.501	1.28E-78	1.67E+00	macrophages	JUND
TGFBI	0	1.200070857	0.397	0.011	0	36.09090909	macrophages	TGFBI
JUNB1	4.50E-91	1.195959706	0.798	0.345	2.76E-86	2.31E+00	macrophages	JUNB
LRRFIP11	1.25E-137	1.195598727	0.485	0.089	7.68E-133	5.45E+00	macrophages	LRRFIP1
IRS2	1.05E-52	1.192648196	0.448	0.169	6.44E-48	2.65E+00	macrophages	IRS2
HLA.DMB	0	1.187721201	0.286	0.001	0	286	macrophages	HLA.DMB
LINC00936	9.95E-195	1.186434555	0.38	0.039	6.10E-190	9.74E+00	macrophages	LINC00936
HLA-C1	1.06E-19	1.181879096	0.337	0.176	6.48E-15	1.91E+00	macrophages	HLA-C
RILPL21	1.50E-112	1.179874574	0.397	0.072	9.18E-108	5.51E+00	macrophages	RILPL2
CXCL1	1.41E-169	1.175899616	0.131	0.005	8.68E-165	2.62E+01	macrophages	CXCL1
NPC21	2.73E-58	1.172006432	0.721	0.443	1.67E-53	1.63E+00	macrophages	NPC2
CD69	0	1.159219656	0.306	0.006	0	51	macrophages	CD69
PFKFB3	5.42E-106	1.159028221	0.306	0.045	3.32E-101	6.80E+00	macrophages	PFKFB3
FCGRT1	1.24E-74	1.158606508	0.545	0.191	7.63E-70	2.85E+00	macrophages	FCGRT
AHNAK1	6.44E-95	1.154433345	0.586	0.168	3.95E-90	3.49E+00	macrophages	AHNAK
HLA-DQA2	0	1.153724242	0.276	0.004	0	69	macrophages	HLA-DQA2
CFLAR1	3.76E-54	1.151379353	0.556	0.263	2.31E-49	2.11E+00	macrophages	CFLAR
ZEB2	1.20E-139	1.146153985	0.458	0.078	7.38E-135	5.87E+00	macrophages	ZEB2
HLA-DMA1	4.12E-261	1.142501509	0.283	0.015	2.53E-256	1.89E+01	macrophages	HLA-DMA
MAF	2.71E-125	1.140666247	0.424	0.072	1.66E-120	5.89E+00	macrophages	MAF
MNDA	0	1.138192234	0.391	0.008	0	48.875	macrophages	MNDA
TRIB1	3.14E-247	1.130242553	0.34	0.024	1.92E-242	1.42E+01	macrophages	TRIB1
FYB	1.58E-141	1.124619129	0.414	0.064	9.68E-137	6.47E+00	macrophages	FYB
ARPC1B1	9.06E-137	1.123996042	0.444	0.074	5.56E-132	6.00E+00	macrophages	ARPC1B
PTGER4	7.49E-113	1.117167741	0.397	0.073	4.60E-108	5.44E+00	macrophages	PTGER4
KDM6B	2.97E-51	1.116676153	0.512	0.226	1.82E-46	2.27E+00	macrophages	KDM6B
VEGFA	1.42E-268	1.115361063	0.34	0.022	8.72E-264	1.55E+01	macrophages	VEGFA
MAP3K81	3.01E-291	1.114324377	0.391	0.027	1.85E-286	1.45E+01	macrophages	MAP3K8
CD37	3.34E-91	1.106878886	0.505	0.138	2.05E-86	3.66E+00	macrophages	CD37
ZFAND51	1.96E-28	1.098211777	0.63	0.485	1.20E-23	1.30E+00	macrophages	ZFAND5
HLA-E1	5.82E-57	1.094720724	0.333	0.086	3.57E-52	3.87E+00	macrophages	HLA-E
NFKB1	1.85E-104	1.094193086	0.391	0.074	1.13E-99	5.28E+00	macrophages	NFKB1
SOD21	1.42E-31	1.086753643	0.623	0.5	8.71E-27	1.25E+00	macrophages	SOD2
MSN1	4.79E-159	1.085204053	0.455	0.067	2.94E-154	6.79E+00	macrophages	MSN
RASGEF1B	0	1.085114794	0.384	0.017	0	22.58823529	macrophages	RASGEF1B
MBNL11	3.37E-102	1.084749967	0.458	0.101	2.07E-97	4.53E+00	macrophages	MBNL1
GRN1	5.57E-91	1.079813361	0.505	0.132	3.41E-86	3.83E+00	macrophages	GRN
DAB21	7.00E-97	1.076804717	0.313	0.049	4.29E-92	6.39E+00	macrophages	DAB2
LMNA1	7.34E-34	1.076404098	0.582	0.37	4.50E-29	1.57E+00	macrophages	LMNA
ELF11	5.22E-96	1.071064385	0.458	0.108	3.20E-91	4.24E+00	macrophages	ELF1
CH25H	0	1.069550119	0.209	0.005	0	41.8	macrophages	CH25H
IQGAP11	2.63E-64	1.067154355	0.492	0.17	1.61E-59	2.89E+00	macrophages	IQGAP1
CD4	6.77E-216	1.062656913	0.34	0.028	4.16E-211	1.21E+01	macrophages	CD4
PTMA2	5.03E-90	1.061424259	0.953	0.653	3.08E-85	1.46E+00	macrophages	PTMA
C1orf162	9.66E-91	1.05429294	0.418	0.096	5.92E-86	4.35E+00	macrophages	C1orf162
CHMP1B	4.13E-21	1.049897432	0.391	0.224	2.53E-16	1.75E+00	macrophages	CHMP1B
DUSP51	5.01E-74	1.04882617	0.38	0.091	3.07E-69	4.18E+00	macrophages	DUSP5
LYN	0	1.046890537	0.367	0.021	0	17.47619048	macrophages	LYN
CX3CR1	0	1.046613869	0.323	0.004	0	80.75	macrophages	CX3CR1
KCTD121	4.53E-119	1.04279207	0.455	0.085	2.78E-114	5.35E+00	macrophages	KCTD12
RNASE6	0	1.042400322	0.327	0.001	0	327	macrophages	RNASE6
COTL1	9.74E-88	1.036862638	0.387	0.083	5.97E-83	4.66E+00	macrophages	COTL1
MT.ND31	4.14E-30	1.033896358	0.576	0.368	2.54E-25	1.57E+00	macrophages	MT.ND3
MT.ND21	2.40E-27	1.033648193	0.572	0.383	1.47E-22	1.49E+00	macrophages	MT.ND2
BHLHE41	1.57E-98	1.022881543	0.269	0.037	9.65E-94	7.27E+00	macrophages	BHLHE41
STAB1	5.77E-255	1.022603988	0.273	0.015	3.54E-250	1.82E+01	macrophages	STAB1
RPL34P181	3.53E-31	1.022001268	0.421	0.205	2.17E-26	2.05E+00	macrophages	RPL34P18
FTH1P20	2.68E-96	1.017249901	0.276	0.04	1.64E-91	6.90E+00	macrophages	FTH1P20
RP11.475C16.1	9.68E-28	1.010966217	0.384	0.186	5.94E-23	2.06E+00	macrophages	RP11.475C16.1
C10orf54	8.50E-269	1.010034347	0.337	0.021	5.22E-264	1.60E+01	macrophages	C10orf54
PTPRE	0	1.008611499	0.354	0.018	0	19.66666667	macrophages	PTPRE
IL10RA	0	1.001586335	0.35	0.002	0	175	macrophages	IL10RA
TPSB2	7.87E-60	3.477935867	0.34	0.02	4.83E-55	1.70E+01	mastocyte	TPSB2
TPSAB1	0	2.561304711	0.3	0.002	0	150	mastocyte	TPSAB1
CD691	7.98E-38	2.357795113	0.18	0.009	4.90E-33	2.00E+01	mastocyte	CD69

ANXA14	0.005486279	1.668256773	0.18	0.083	1	2.168674699	mastocyte	ANXA1
CPA3	0	1.451265788	0.24	0.001	0	240	mastocyte	CPA3
CTSG	1.27E-16	1.380507768	0.2	0.024	7.78E-12	8.33E+00	mastocyte	CTSG
MS4A2	1.02E-90	1.078382808	0.18	0.004	6.24E-86	4.50E+01	mastocyte	MS4A2
PTGDS1	0	2.844915854	0.979	0.664	0	1.47439759	PTM_cells	PTGDS
ACTA2	0	2.784577725	0.912	0.149	0	6.120805369	PTM_cells	ACTA2
IGFBP72	0	2.623014649	0.957	0.253	0	3.782608696	PTM_cells	IGFBP7
APOE1	0	2.44562663	0.795	0.159	0	5	PTM_cells	APOE
MYH11	0	2.388047245	0.894	0.161	0	5.552795031	PTM_cells	MYH11
TMSB4X3	0	2.229472121	0.946	0.307	0	3.081433225	PTM_cells	TMSB4X
FHL21	0	2.204024482	0.816	0.079	0	10.32911392	PTM_cells	FHL2
MYL9	0	2.197610697	0.85	0.128	0	6.640625	PTM_cells	MYL9
TPM2	0	2.160595245	0.846	0.115	0	7.356521739	PTM_cells	TPM2
ENG2	0	2.132021529	0.848	0.072	0	11.77777778	PTM_cells	ENG
TIMP32	0	2.040137855	0.861	0.142	0	6.063380282	PTM_cells	TIMP3
TAGLN	0	1.97718524	0.816	0.109	0	7.486238532	PTM_cells	TAGLN
TIMP12	0	1.925981891	0.816	0.135	0	6.044444444	PTM_cells	TIMP1
AEBP11	0	1.919894138	0.806	0.058	0	13.89655172	PTM_cells	AEBP1
O3-Jun	0	1.882398457	0.853	0.346	0	2.465317919	PTM_cells	JUN
KRT17	0	1.882168871	0.448	0.008	0	56	PTM_cells	KRT17
SPARCL12	0	1.881156274	0.893	0.13	0	6.869230769	PTM_cells	SPARCL1
SMOC21	0	1.832348459	0.797	0.053	0	15.03773585	PTM_cells	SMOC2
MALAT13	5.19E-267	1.821771164	0.916	0.834	3.18E-262	1.10E+00	PTM_cells	MALAT1
DPEP11	0	1.81505935	0.757	0.14	0	5.407142857	PTM_cells	DPEP1
CALD11	0	1.809779788	0.874	0.206	0	4.242718447	PTM_cells	CALD1
BGN	0	1.771590992	0.749	0.058	0	12.9137931	PTM_cells	BGN
SPARC2	0	1.756558311	0.875	0.217	0	4.032258065	PTM_cells	SPARC
TCEAL41	0	1.749241869	0.807	0.161	0	5.01242236	PTM_cells	TCEAL4
NEAT13	0	1.725348958	0.65	0.174	0	3.735632184	PTM_cells	NEAT1
NR2F22	0	1.720345429	0.794	0.137	0	5.795620438	PTM_cells	NR2F2
RPL103	0	1.691891036	0.926	0.337	0	2.747774481	PTM_cells	RPL10
MEG31	0	1.679783919	0.607	0.161	0	3.770186335	PTM_cells	MEG3
FOS3	0	1.663146346	0.856	0.285	0	3.003508772	PTM_cells	FOS
OSR21	0	1.65191603	0.753	0.082	0	9.182926829	PTM_cells	OSR2
C11orf961	0	1.650661529	0.778	0.251	0	3.099601594	PTM_cells	C11orf96
MYLK	0	1.632184269	0.761	0.168	0	4.529761905	PTM_cells	MYLK
LGALS11	0	1.628234752	0.821	0.177	0	4.638418079	PTM_cells	LGALS1
TPM1	0	1.626326199	0.788	0.177	0	4.451977401	PTM_cells	TPM1
MYL62	0	1.607100452	0.928	0.651	0	1.425499232	PTM_cells	MYL6
JUNB3	0	1.587374251	0.842	0.324	0	2.598765432	PTM_cells	JUNB
MGP2	0	1.577268781	0.859	0.133	0	6.458646617	PTM_cells	MGP
ITM2B3	0	1.553774535	0.864	0.299	0	2.889632107	PTM_cells	ITM2B
COL15A12	0	1.534470703	0.738	0.099	0	7.454545455	PTM_cells	COL15A1
TIMP21	0	1.50552163	0.847	0.402	0	2.106965174	PTM_cells	TIMP2
CYR611	0	1.494852645	0.66	0.089	0	7.415730337	PTM_cells	CYR61
TNS11	0	1.489337695	0.732	0.074	0	9.891891892	PTM_cells	TNS1
FTL3	0	1.488618109	0.905	0.509	0	1.777996071	PTM_cells	FTL
MMP21	0	1.477476529	0.747	0.154	0	4.850649351	PTM_cells	MMP2
FOSB3	0	1.472847267	0.782	0.321	0	2.436137072	PTM_cells	FOSB
PTMS2	0	1.466560039	0.795	0.185	0	4.297297297	PTM_cells	PTMS
RPS4X3	0	1.46348975	0.898	0.321	0	2.797507788	PTM_cells	RPS4X
FBLN51	0	1.451601023	0.708	0.065	0	10.89230769	PTM_cells	FBLN5
TSHZ21	0	1.438153166	0.699	0.079	0	8.848101266	PTM_cells	TSHZ2
MFAP4	0	1.435472167	0.63	0.026	0	24.23076923	PTM_cells	MFAP4
CD633	0	1.422326647	0.847	0.264	0	3.208333333	PTM_cells	CD63
LAMC31	0	1.417035348	0.684	0.043	0	15.90697674	PTM_cells	LAMC3
APOD1	0	1.416653808	0.667	0.062	0	10.75806452	PTM_cells	APOD
CPE1	0	1.387968129	0.777	0.185	0	4.2	PTM_cells	CPE
ACTB3	0	1.387559715	0.907	0.57	0	1.59122807	PTM_cells	ACTB
MAGED21	0	1.383574062	0.74	0.11	0	6.727272727	PTM_cells	MAGED2
EGR13	0	1.383257295	0.743	0.239	0	3.108786611	PTM_cells	EGR1
RPL13A3	0	1.375600855	0.939	0.727	0	1.291609354	PTM_cells	RPL13A
KRT131	0	1.370775087	0.447	0.045	0	9.933333333	PTM_cells	KRT13
BST23	0	1.357673225	0.73	0.083	0	8.795180723	PTM_cells	BST2
IGFBP61	0	1.339127437	0.632	0.07	0	9.028571429	PTM_cells	IGFBP6
ITGB11	0	1.331735709	0.788	0.187	0	4.213903743	PTM_cells	ITGB1
NUPR11	0	1.330807205	0.724	0.109	0	6.642201835	PTM_cells	NUPR1
TPM42	0	1.311770479	0.725	0.213	0	3.403755869	PTM_cells	TPM4
MT-ND52	0	1.310106634	0.735	0.275	0	2.672727273	PTM_cells	MT-ND5
IER23	0	1.300509018	0.664	0.155	0	4.283870968	PTM_cells	IER2
ZFP36L13	0	1.288427536	0.805	0.377	0	2.135278515	PTM_cells	ZFP36L1
RPS83	0	1.285029456	0.928	0.768	0	1.208333333	PTM_cells	RPS8
RASD1	0	1.279059136	0.591	0.045	0	13.13333333	PTM_cells	RASD1
RPL10A3	0	1.274242792	0.902	0.651	0	1.385560676	PTM_cells	RPL10A
F3	0	1.273254602	0.637	0.052	0	12.25	PTM_cells	F3

VCAN1	0	1.268032218	0.595	0.046	0	12.93478261	PTM_cells	VCAN
SFRP41	0	1.261199306	0.58	0.027	0	21.48148148	PTM_cells	SFRP4
LTBP41	0	1.246337763	0.778	0.129	0	6.031007752	PTM_cells	LTBP4
ABLIM11	0	1.243445053	0.716	0.265	0	2.701886792	PTM_cells	ABLIM1
EEF1A13	0	1.237807136	0.978	0.922	0	1.060737527	PTM_cells	EEF1A1
COL1A11	0	1.236660109	0.701	0.102	0	6.87254902	PTM_cells	COL1A1
FLNA1	0	1.225571219	0.733	0.088	0	8.329545455	PTM_cells	FLNA
MT-CYB3	1.43E-296	1.221267892	0.786	0.378	8.77E-292	2.08E+00	PTM_cells	MT-CYB
GADD45B3	0	1.21634598	0.716	0.166	0	4.313253012	PTM_cells	GADD45B
MT-ATP63	4.01E-266	1.215399622	0.789	0.417	2.46E-261	1.89E+00	PTM_cells	MT-ATP6
RPL123	0	1.211985459	0.881	0.623	0	1.414125201	PTM_cells	RPL12
IFITM33	0	1.205168587	0.811	0.166	0	4.885542169	PTM_cells	IFITM3
GSTP13	0	1.200474621	0.738	0.145	0	5.089655172	PTM_cells	GSTP1
DPYSL31	0	1.193359995	0.625	0.092	0	6.793478261	PTM_cells	DPYSL3
HSPB12	0	1.190156823	0.722	0.196	0	3.683673469	PTM_cells	HSPB1
ZFP36L23	0	1.190114711	0.682	0.121	0	5.636363636	PTM_cells	ZFP36L2
COL1A21	0	1.189935716	0.76	0.153	0	4.967320261	PTM_cells	COL1A2
PEMT	0	1.187249853	0.61	0.082	0	7.43902439	PTM_cells	PEMT
COL6A21	0	1.183977619	0.739	0.093	0	7.946236559	PTM_cells	COL6A2
RPL183	0	1.174511111	0.881	0.558	0	1.578853047	PTM_cells	RPL18
RPL393	0	1.172845435	0.794	0.256	0	3.1015625	PTM_cells	RPL39
GSN3	0	1.167628153	0.75	0.188	0	3.989361702	PTM_cells	GSN
PLAC91	0	1.163432819	0.606	0.061	0	9.93442623	PTM_cells	PLAC9
IGFBP21	0	1.16320792	0.538	0.115	0	4.67826087	PTM_cells	IGFBP2
SPTBN12	0	1.158599439	0.764	0.281	0	2.71886121	PTM_cells	SPTBN1
CTGF1	0	1.155092412	0.483	0.051	0	9.470588235	PTM_cells	CTGF
RPL214	0	1.153922848	0.912	0.455	0	2.004395604	PTM_cells	RPL21
SSPN1	0	1.146466351	0.653	0.069	0	9.463768116	PTM_cells	SSPN
VIM3	0	1.145861632	0.912	0.429	0	2.125874126	PTM_cells	VIM
RPLP13	0	1.143913491	0.948	0.757	0	1.252311757	PTM_cells	RPLP1
NGFRAP11	0	1.143372496	0.617	0.115	0	5.365217391	PTM_cells	NGFRAP1
DCN1	0	1.142679619	0.842	0.121	0	6.958677686	PTM_cells	DCN
RHOB3	0	1.13366186	0.724	0.217	0	3.33640553	PTM_cells	RHOB
RPL18A4	0	1.130735533	0.85	0.396	0	2.146464646	PTM_cells	RPL18A
NR4A12	2.27E-301	1.126275614	0.634	0.242	1.39E-296	2.62E+00	PTM_cells	NR4A1
ZFP363	0	1.125799009	0.75	0.218	0	3.440366972	PTM_cells	ZFP36
PRDX22	0	1.123196057	0.646	0.083	0	7.78313253	PTM_cells	PRDX2
B2M3	0	1.12120889	0.888	0.22	0	4.036363636	PTM_cells	B2M
RPL413	0	1.114402186	0.93	0.78	0	1.192307692	PTM_cells	RPL41
CSRP1	0	1.112255012	0.613	0.092	0	6.663043478	PTM_cells	CSRP1
RPL63	0	1.108946256	0.891	0.673	0	1.323922734	PTM_cells	RPL6
EID12	0	1.105594623	0.78	0.345	0	2.260869565	PTM_cells	EID1
S100A63	0	1.104436364	0.691	0.105	0	6.580952381	PTM_cells	S100A6
PRPS21	0	1.103260502	0.609	0.071	0	8.577464789	PTM_cells	PRPS2
PPIB1	0	1.100648308	0.695	0.273	0	2.545787546	PTM_cells	PPIB
DUSP13	0	1.093369603	0.671	0.161	0	4.167701863	PTM_cells	DUSP1
C1S1	0	1.093098148	0.681	0.076	0	8.960526316	PTM_cells	C1S
CRISPLD21	0	1.092630202	0.612	0.1	0	6.12	PTM_cells	CRISPLD2
SERPINF11	0	1.089352973	0.698	0.122	0	5.721311475	PTM_cells	SERPINF1
NEXN	0	1.086496872	0.584	0.09	0	6.488888889	PTM_cells	NEXN
COL3A11	0	1.076415256	0.637	0.151	0	4.218543046	PTM_cells	COL3A1
MT-ND43	7.73E-266	1.073596272	0.788	0.4	4.74E-261	1.97E+00	PTM_cells	MT-ND4
CAV12	0	1.072208093	0.671	0.077	0	8.714285714	PTM_cells	CAV1
NDUFA4	4.82E-267	1.067132426	0.787	0.513	2.95E-262	1.53E+00	PTM_cells	NDUFA4
KANK21	0	1.061919045	0.591	0.053	0	11.1509434	PTM_cells	KANK2
CD992	0	1.059604266	0.742	0.169	0	4.390532544	PTM_cells	CD99
AHNAK3	0	1.059266749	0.696	0.145	0	4.8	PTM_cells	AHNAK
PTCH11	0	1.059134645	0.601	0.175	0	3.434285714	PTM_cells	PTCH1
OGN1	0	1.057936178	0.607	0.052	0	11.67307692	PTM_cells	OGN
CST32	0	1.056127669	0.859	0.41	0	2.095121951	PTM_cells	CST3
MORF4L21	0	1.056018973	0.696	0.3	0	2.32	PTM_cells	MORF4L2
PTRF2	0	1.055697097	0.671	0.092	0	7.293478261	PTM_cells	PTRF
LGALS3BP1	0	1.042971349	0.663	0.091	0	7.285714286	PTM_cells	LGALS3BP
FXYD61	0	1.04226348	0.647	0.087	0	7.436781609	PTM_cells	FXYD6
BTG23	0	1.042177003	0.581	0.11	0	5.281818182	PTM_cells	BTG2
KLF23	0	1.039536757	0.622	0.145	0	4.289655172	PTM_cells	KLF2
PLPP31	0	1.037803952	0.671	0.095	0	7.063157895	PTM_cells	PLPP3
IFI63	0	1.036257666	0.609	0.071	0	8.577464789	PTM_cells	IFI6
CD812	0	1.035122196	0.706	0.298	0	2.369127517	PTM_cells	CD81
NUCKS12	8.03E-301	1.031307733	0.741	0.385	4.93E-296	1.92E+00	PTM_cells	NUCKS1
DSTN	0	1.026075228	0.84	0.547	0	1.535648995	PTM_cells	DSTN
NPTX2	0	1.022276962	0.564	0.109	0	5.174311927	PTM_cells	NPTX2
PPP1R14A1	0	1.019924142	0.634	0.127	0	4.992125984	PTM_cells	PPP1R14A
CCNL13	4.77E-201	1.013492155	0.627	0.333	2.92E-196	1.88E+00	PTM_cells	CCNL1
PPP1R15A3	0	1.012865435	0.674	0.173	0	3.895953757	PTM_cells	PPP1R15A

NBL11	0	1.010804278	0.622	0.073	0	8.520547945	PTM_cells	NBL1
GNB2L12	1.73E-214	1.007792381	0.712	0.459	1.06E-209	1.55E+00	PTM_cells	GNB2L1
LAMB11	0	1.005567139	0.536	0.065	0	8.246153846	PTM_cells	LAMB1
LDHB1	0	1.005334421	0.688	0.198	0	3.474747475	PTM_cells	LDHB
SMOC1	0	1.00085494	0.543	0.057	0	9.526315789	PTM_cells	SMOC1
RNASE12	0	2.660771869	0.733	0.101	0	7.257425743	Sertoli_cells	RNASE1
APOA1	0	2.644927727	0.742	0.108	0	6.87037037	Sertoli_cells	APOA1
FATE1	0	2.547521129	0.81	0.068	0	11.91176471	Sertoli_cells	FATE1
DEFB119	0	2.498591255	0.761	0.117	0	6.504273504	Sertoli_cells	DEFB119
CLU1	3.66E-303	2.498270374	0.746	0.657	2.25E-298	1.14E+00	Sertoli_cells	CLU
TMSB104	0	2.468101568	0.913	0.363	0	2.515151515	Sertoli_cells	TMSB10
CITED1	0	2.439601543	0.786	0.066	0	11.90909091	Sertoli_cells	CITED1
MIR202HG	0	2.322044523	0.701	0.05	0	14.02	Sertoli_cells	MIR202HG
MT.RNR11	3.55E-43	2.321435368	0.346	0.279	2.18E-38	1.24E+00	Sertoli_cells	MT.RNR1
HMGNS	0	2.212928893	0.702	0.052	0	13.5	Sertoli_cells	HMGNS
COPE	0	1.883784461	0.839	0.567	0	1.479717813	Sertoli_cells	COPE
EPPIN	0	1.848749457	0.588	0.039	0	15.07692308	Sertoli_cells	EPPIN
GSTA1	0	1.840676848	0.652	0.061	0	10.68852459	Sertoli_cells	GSTA1
MT.RNR22	1.60E-14	1.813507951	0.351	0.375	9.79E-10	9.36E-01	Sertoli_cells	MT.RNR2
SERPINA5	0	1.764638177	0.56	0.17	0	3.294117647	Sertoli_cells	SERPINA5
BEX1	0	1.757474279	0.59	0.053	0	11.13207547	Sertoli_cells	BEX1
SCRG1	0	1.75498241	0.507	0.065	0	7.8	Sertoli_cells	SCRG1
CST33	0	1.751189061	0.753	0.41	0	1.836585366	Sertoli_cells	CST3
DEFB123	0	1.738069001	0.527	0.023	0	22.91304348	Sertoli_cells	DEFB123
ALDH1A11	0	1.702596773	0.629	0.096	0	6.552083333	Sertoli_cells	ALDH1A1
CLDN11	0	1.700853586	0.5	0.067	0	7.462686567	Sertoli_cells	CLDN11
TCEAL5	0	1.698754185	0.576	0.036	0	16	Sertoli_cells	TCEAL5
ISYNA1	2.21E-303	1.621428085	0.661	0.434	1.36E-298	1.52E+00	Sertoli_cells	ISYNA1
MT.ND32	4.08E-14	1.581382315	0.35	0.372	2.50E-09	9.41E-01	Sertoli_cells	MT.ND3
CST9L	0	1.544770258	0.46	0.017	0	27.05882353	Sertoli_cells	CST9L
HMGNS	0	1.533685687	0.614	0.243	0	2.526748971	Sertoli_cells	HMGNS
MGST33	0	1.51625884	0.651	0.211	0	3.085308057	Sertoli_cells	MGST3
MARCKSL12	0	1.5073979	0.654	0.196	0	3.336734694	Sertoli_cells	MARCKSL1
PEG10	0	1.490407065	0.529	0.101	0	5.237623762	Sertoli_cells	PEG10
MT.CO32	2.32E-22	1.488920089	0.349	0.327	1.42E-17	1.07E+00	Sertoli_cells	MT.CO3
NGFRAP12	1.15E-280	1.485560125	0.399	0.122	7.03E-276	3.27E+00	Sertoli_cells	NGFRAP1
HOPX	0	1.451890941	0.484	0.084	0	5.761904762	Sertoli_cells	HOPX
SAT12	0	1.451107325	0.61	0.126	0	4.841269841	Sertoli_cells	SAT1
MTND1P232	2.43E-12	1.439525281	0.349	0.376	1.49E-07	9.28E-01	Sertoli_cells	MTND1P23
SPARC4	9.95E-260	1.436070644	0.524	0.23	6.10E-255	2.28E+00	Sertoli_cells	SPARC
LINC00684	0	1.415452186	0.386	0.015	0	25.73333333	Sertoli_cells	LINC00684
MT.CO22	2.50E-20	1.410658165	0.349	0.335	1.53E-15	1.04E+00	Sertoli_cells	MT.CO2
PRND	0	1.396905497	0.417	0.017	0	24.52941176	Sertoli_cells	PRND
MTCO1P121	3.54E-72	1.370483263	0.345	0.212	2.17E-67	1.63E+00	Sertoli_cells	MTCO1P12
CALM13	0	1.359704812	0.829	0.684	0	1.211988304	Sertoli_cells	CALM1
ACTB5	2.36E-299	1.35488999	0.765	0.575	1.45E-294	1.33E+00	Sertoli_cells	ACTB
PPP1R14A3	0	1.325597017	0.518	0.127	0	4.078740157	Sertoli_cells	PPP1R14A
DCXR	0	1.325108304	0.499	0.104	0	4.798076923	Sertoli_cells	DCXR
TUBB4A	0	1.320673713	0.402	0.037	0	10.86486486	Sertoli_cells	TUBB4A
MYL6B	2.15E-296	1.304155256	0.742	0.594	1.32E-291	1.25E+00	Sertoli_cells	MYL6B
LGALS13	0	1.291021299	0.63	0.18	0	3.5	Sertoli_cells	LGALS1
CHGA	0	1.287143666	0.397	0.056	0	7.089285714	Sertoli_cells	CHGA
SMIM1	0	1.275539573	0.426	0.069	0	6.173913043	Sertoli_cells	SMIM1
SOX9	0	1.263175205	0.446	0.09	0	4.955555556	Sertoli_cells	SOX9
RPL395	0	1.260021219	0.694	0.254	0	2.732283465	Sertoli_cells	RPL39
SUSD3	0	1.257274357	0.407	0.021	0	19.38095238	Sertoli_cells	SUSD3
MT.TM	1.47E-266	1.243438174	0.282	0.062	9.00E-262	4.55E+00	Sertoli_cells	MT.TM
NUPR13	0	1.226627096	0.479	0.116	0	4.129310345	Sertoli_cells	NUPR1
RBP1	0	1.207582108	0.388	0.036	0	10.77777778	Sertoli_cells	RBP1
TAGLN23	0	1.200322266	0.521	0.192	0	2.713541667	Sertoli_cells	TAGLN2
BEX2	0	1.199662392	0.401	0.053	0	7.566037736	Sertoli_cells	BEX2
HPRT11	0	1.191150444	0.509	0.141	0	3.609929078	Sertoli_cells	HPRT1
FDXR	0	1.187755739	0.43	0.088	0	4.886363636	Sertoli_cells	FDXR
TCEAL2	0	1.186787409	0.396	0.034	0	11.64705882	Sertoli_cells	TCEAL2
MT-ND15	5.82E-41	1.182833515	0.488	0.406	3.57E-36	1.20E+00	Sertoli_cells	MT-ND1
06-Sep	0	1.18091148	0.414	0.054	0	7.666666667	Sertoli_cells	06-Sep
CCDC28B	0	1.171229551	0.4	0.07	0	5.714285714	Sertoli_cells	CCDC28B
PRDX6	2.40E-276	1.169927424	0.744	0.625	1.47E-271	1.19E+00	Sertoli_cells	PRDX6
SYNE22	4.83E-292	1.156232484	0.401	0.117	2.96E-287	3.43E+00	Sertoli_cells	SYNE2
AARD	6.23E-265	1.152473007	0.475	0.186	3.82E-260	2.55E+00	Sertoli_cells	AARD
SLC25A41	1.02E-204	1.144310993	0.436	0.191	6.25E-200	2.28E+00	Sertoli_cells	SLC25A4
RPL415	0	1.137756244	0.895	0.78	0	1.147435897	Sertoli_cells	RPL41
SMARCA11	0	1.130729821	0.455	0.116	0	3.922413793	Sertoli_cells	SMARCA1
MT.ND12	8.36E-09	1.130242518	0.351	0.381	0.000512786	0.921259843	Sertoli_cells	MT.ND1
GSTA2	0	1.12712618	0.352	0.014	0	25.14285714	Sertoli_cells	GSTA2

GMPR	0	1.115784926	0.399	0.096	0	4.15625	Sertoli_cells	GMPR
MT.CO12	6.59E-15	1.107295219	0.35	0.339	4.04E-10	1.03E+00	Sertoli_cells	MT.CO1
14-Sep	0	1.0985805	0.374	0.016	0	23.375	Sertoli_cells	14-Sep
EGR15	3.04E-68	1.090456843	0.386	0.255	1.87E-63	1.51E+00	Sertoli_cells	EGR1
SDC4	0	1.081637305	0.337	0.021	0	16.04761905	Sertoli_cells	SDC4
KIAA1210	0	1.081445973	0.36	0.018	0	20	Sertoli_cells	KIAA1210
MAP1B3	7.07E-241	1.076764263	0.416	0.146	4.34E-236	2.85E+00	Sertoli_cells	MAP1B
HSPA1A5	3.51E-19	1.074970248	0.369	0.363	2.15E-14	1.02E+00	Sertoli_cells	HSPA1A
SMIM10	0	1.067626117	0.372	0.048	0	7.75	Sertoli_cells	SMIM10
C4orf48	1.55E-31	1.058981249	0.327	0.267	9.54E-27	1.22E+00	Sertoli_cells	C4orf48
TMEM130	0	1.057319313	0.331	0.018	0	18.38888889	Sertoli_cells	TMEM130
SLC7A5	0	1.056590348	0.34	0.033	0	10.3030303	Sertoli_cells	SLC7A5
RPS4X5	0	1.05213984	0.81	0.318	0	2.547169811	Sertoli_cells	RPS4X
GAMT1	0	1.043945392	0.387	0.091	0	4.252747253	Sertoli_cells	GAMT
MYL64	8.73E-306	1.043650028	0.802	0.656	5.35E-301	1.22E+00	Sertoli_cells	MYL6
REEP1	2.75E-267	1.03873483	0.362	0.107	1.69E-262	3.38E+00	Sertoli_cells	REEP1
PEBP11	1.97E-275	1.035576138	0.767	0.595	1.21E-270	1.29E+00	Sertoli_cells	PEBP1
GATM1	2.60E-278	1.035510004	0.377	0.112	1.59E-273	3.37E+00	Sertoli_cells	GATM
HMGCS2	0	1.030449538	0.338	0.015	0	22.53333333	Sertoli_cells	HMGCS2
CD994	7.65E-229	1.022499757	0.468	0.178	4.69E-224	2.63E+00	Sertoli_cells	CD99
TSPYL2	2.24E-187	1.021694125	0.458	0.211	1.38E-182	2.17E+00	Sertoli_cells	TSPYL2
INHA	0	1.021314718	0.329	0.012	0	27.41666667	Sertoli_cells	INHA
CCDC85B3	0	1.020638822	0.405	0.106	0	3.820754717	Sertoli_cells	CCDC85B
TUBA1A5	7.71E-293	1.016199836	0.512	0.183	4.73E-288	2.80E+00	Sertoli_cells	TUBA1A
S100A161	0	1.015636066	0.343	0.049	0	7	Sertoli_cells	S100A16
BEX4	0	1.012726271	0.368	0.083	0	4.43373494	Sertoli_cells	BEX4
MT.CYB3	3.13E-15	1.009184391	0.348	0.334	1.92E-10	1.04E+00	Sertoli_cells	MT.CYB
MRO	0	1.002312532	0.336	0.011	0	30.54545455	Sertoli_cells	MRO
TNP1	0	2.014407028	0.998	0.985	0	1.01319797	spermatid	TNP1
PRM2	0	1.966700491	0.999	0.99	0	1.009090909	spermatid	PRM2
CCDC168	0	1.796779127	0.636	0.201	0	3.164179104	spermatid	CCDC168
AKAP4	0	1.711122018	0.779	0.364	0	2.14010989	spermatid	AKAP4
PRM1	0	1.688848862	0.997	0.974	0	1.023613963	spermatid	PRM1
LINC00919	0	1.681276077	0.76	0.417	0	1.822541966	spermatid	LINC00919
LELP1	0	1.668992653	0.939	0.81	0	1.159259259	spermatid	LELP1
FAM71A	0	1.667801309	0.714	0.252	0	2.833333333	spermatid	FAM71A
OAZ3	0	1.666256471	0.859	0.498	0	1.724899598	spermatid	OAZ3
SH3RF2	0	1.616578892	0.875	0.517	0	1.69245648	spermatid	SH3RF2
AC007557.1	0	1.600462347	0.88	0.575	0	1.530434783	spermatid	AC007557.1
HEMGN	0	1.555570117	0.762	0.286	0	2.664335664	spermatid	HEMGN
ODF1	0	1.546165614	0.691	0.436	0	1.584862385	spermatid	ODF1
HMGB4	0	1.542191119	0.986	0.879	0	1.121729238	spermatid	HMGB4
C10orf62	0	1.531866879	0.86	0.435	0	1.977011494	spermatid	C10orf62
TSSK6	0	1.525452937	0.762	0.309	0	2.466019417	spermatid	TSSK6
GSG1	0	1.503359612	0.909	0.591	0	1.538071066	spermatid	GSG1
FAM71B	0	1.491643784	0.683	0.159	0	4.295597484	spermatid	FAM71B
CCSER2	0	1.461843158	0.844	0.49	0	1.72244898	spermatid	CCSER2
C20orf141	0	1.445978799	0.804	0.319	0	2.520376176	spermatid	C20orf141
RNF151	0	1.442648281	0.822	0.446	0	1.843049327	spermatid	RNF151
SPATA42	0	1.439346913	0.814	0.365	0	2.230136986	spermatid	SPATA42
SAMD4A	0	1.433617656	0.834	0.421	0	1.980997625	spermatid	SAMD4A
GLUL	0	1.426578449	0.866	0.588	0	1.472789116	spermatid	GLUL
AKAP1	0	1.423981567	0.752	0.308	0	2.441558442	spermatid	AKAP1
SPATA3	0	1.414294077	0.804	0.374	0	2.14973262	spermatid	SPATA3
CABS1	0	1.404886202	0.813	0.34	0	2.391176471	spermatid	CABS1
TSPAN16	0	1.398377727	0.816	0.362	0	2.254143646	spermatid	TSPAN16
NUPR2	0	1.395640917	0.959	0.699	0	1.371959943	spermatid	NUPR2
IQCF2	0	1.37965009	0.78	0.347	0	2.247838617	spermatid	IQCF2
C2orf57	0	1.361834212	0.74	0.239	0	3.09623431	spermatid	C2orf57
TP53TG5	0	1.349539182	0.644	0.174	0	3.701149425	spermatid	TP53TG5
SMCP	0	1.323666409	0.944	0.668	0	1.413173653	spermatid	SMCP
GTSF1L	0	1.31813037	0.879	0.516	0	1.703488372	spermatid	GTSF1L
FSCN3	0	1.316819004	0.674	0.171	0	3.941520468	spermatid	FSCN3
PCP2	0	1.314857547	0.8	0.344	0	2.325581395	spermatid	PCP2
C20orf144	0	1.302913274	0.72	0.416	0	1.730769231	spermatid	C20orf144
IRGC	0	1.301348	0.828	0.423	0	1.957446809	spermatid	IRGC
CAPZA3	0	1.301324338	0.863	0.519	0	1.662813102	spermatid	CAPZA3
NFKBIB	0	1.300216717	0.729	0.321	0	2.271028037	spermatid	NFKBIB
CXCL16	0	1.293242388	0.808	0.417	0	1.93764988	spermatid	CXCL16
CLPB	0	1.29262138	0.84	0.464	0	1.810344828	spermatid	CLPB
FAM209A	0	1.291265643	0.751	0.423	0	1.775413712	spermatid	FAM209A
GAPDHS	0	1.288620756	0.879	0.495	0	1.775757576	spermatid	GAPDHS
CYLC2	0	1.286780758	0.875	0.485	0	1.804123711	spermatid	CYLC2
TPPP2	0	1.285266441	0.872	0.519	0	1.680154143	spermatid	TPPP2
CCDC91	0	1.280548747	0.902	0.606	0	1.488448845	spermatid	CCDC91

C17orf105	0	1.266197216	0.777	0.381	0	2.039370079	spermatid	C17orf105
ACTL7A	0	1.265786792	0.854	0.461	0	1.852494577	spermatid	ACTL7A
DCUN1D1	0	1.25862545	0.903	0.687	0	1.31441048	spermatid	DCUN1D1
IQCF1	0	1.25443413	0.795	0.396	0	2.007575758	spermatid	IQCF1
DNAJB8	0	1.250733728	0.787	0.339	0	2.321533923	spermatid	DNAJB8
UBQLN3	0	1.250221642	0.793	0.385	0	2.05974026	spermatid	UBQLN3
PRSS37	0	1.245352344	0.603	0.123	0	4.902439024	spermatid	PRSS37
ZNF683	0	1.24297888	0.684	0.183	0	3.737704918	spermatid	ZNF683
SPERT	0	1.240150959	0.758	0.306	0	2.477124183	spermatid	SPERT
HOOK1	0	1.238979543	0.778	0.44	0	1.768181818	spermatid	HOOK1
HBB	2.33E-08	1.224967452	0.043	0.03	0.001427552	1.433333333	spermatid	HBB
FAM71C	0	1.224579404	0.609	0.106	0	5.745283019	spermatid	FAM71C
IQCF3	0	1.222496065	0.8	0.371	0	2.156334232	spermatid	IQCF3
CRISP2	0	1.221798355	0.965	0.81	0	1.191358025	spermatid	CRISP2
LINC00608	0	1.220887859	0.744	0.269	0	2.765799257	spermatid	LINC00608
TSKS	0	1.214546708	0.787	0.392	0	2.007653061	spermatid	TSKS
LINC00238	0	1.214375803	0.373	0.088	0	4.238636364	spermatid	LINC00238
OXCT2	0	1.212432967	0.68	0.144	0	4.722222222	spermatid	OXCT2
C16orf82	0	1.210500513	0.789	0.391	0	2.017902813	spermatid	C16orf82
FAM187B	0	1.197135094	0.657	0.155	0	4.238709677	spermatid	FAM187B
FAM209B	0	1.193910109	0.737	0.434	0	1.698156682	spermatid	FAM209B
DNAJC4	0	1.193855079	0.786	0.385	0	2.041558442	spermatid	DNAJC4
FAM46C	0	1.193299674	0.761	0.376	0	2.02393617	spermatid	FAM46C
PROCA1	0	1.192182995	0.868	0.621	0	1.397745572	spermatid	PROCA1
HSPA1L	0	1.191018424	0.663	0.234	0	2.833333333	spermatid	HSPA1L
TSSK2	0	1.189296809	0.814	0.438	0	1.858447489	spermatid	TSSK2
H1FNT	0	1.186979413	0.867	0.488	0	1.776639344	spermatid	H1FNT
FAM71F1	0	1.184216604	0.778	0.391	0	1.989769821	spermatid	FAM71F1
SCP2D1	0	1.183189377	0.659	0.178	0	3.702247191	spermatid	SCP2D1
ACE	0	1.182582294	0.778	0.379	0	2.052770449	spermatid	ACE
SPATA12	0	1.179719401	0.692	0.174	0	3.977011494	spermatid	SPATA12
SMKR1	0	1.179708153	0.884	0.575	0	1.537391304	spermatid	SMKR1
LEMD1	0	1.179408494	0.76	0.324	0	2.345679012	spermatid	LEMD1
PRSS58	0	1.178982652	0.547	0.117	0	4.675213675	spermatid	PRSS58
OTUB2	0	1.176821516	0.67	0.233	0	2.875536481	spermatid	OTUB2
CLMN	0	1.175457952	0.66	0.26	0	2.538461538	spermatid	CLMN
TFAM	0	1.175301117	0.73	0.424	0	1.721698113	spermatid	TFAM
ACSBG2	0	1.173266981	0.778	0.383	0	2.031331593	spermatid	ACSBG2
ISG20L2	0	1.171852002	0.77	0.436	0	1.766055046	spermatid	ISG20L2
ACTL9	0	1.170685137	0.744	0.31	0	2.4	spermatid	ACTL9
SPATA18	0	1.169745379	0.755	0.349	0	2.163323782	spermatid	SPATA18
C10orf82	0	1.168513507	0.76	0.361	0	2.105263158	spermatid	C10orf82
C17orf74	0	1.16709969	0.681	0.186	0	3.661290323	spermatid	C17orf74
TEX35	0	1.16492325	0.771	0.386	0	1.997409326	spermatid	TEX35
C1orf100	0	1.159907695	0.655	0.256	0	2.55859375	spermatid	C1orf100
SPTY2D1.AS1	0	1.157466453	0.389	0.158	0	2.462025316	spermatid	SPTY2D1.AS1
ST6GALNAC2	0	1.155524459	0.74	0.333	0	2.222222222	spermatid	ST6GALNAC2
FNDC8	0	1.147612252	0.664	0.176	0	3.772727273	spermatid	FNDC8
FAM134B	0	1.146976817	0.734	0.275	0	2.669090909	spermatid	FAM134B
ACTRT2	0	1.143980063	0.839	0.435	0	1.928735632	spermatid	ACTRT2
CARHSP1	0	1.143749159	0.888	0.628	0	1.414012739	spermatid	CARHSP1
TMEM31	0	1.136454822	0.654	0.257	0	2.544747082	spermatid	TMEM31
TXNDC2	0	1.133497761	0.657	0.224	0	2.933035714	spermatid	TXNDC2
C10orf120	0	1.133141718	0.613	0.178	0	3.443820225	spermatid	C10orf120
CCDC70	0	1.131775041	0.805	0.374	0	2.152406417	spermatid	CCDC70
TEX37	0	1.1302264	0.631	0.159	0	3.968553459	spermatid	TEX37
TMEM191C	0	1.129825747	0.622	0.274	0	2.270072993	spermatid	TMEM191C
KIF2B	0	1.128023939	0.739	0.331	0	2.232628399	spermatid	KIF2B
TNP2	0	1.124094274	0.475	0.134	0	3.544776119	spermatid	TNP2
TEX38	0	1.123400653	0.903	0.531	0	1.700564972	spermatid	TEX38
SPATA20	0	1.12219738	0.78	0.399	0	1.954887218	spermatid	SPATA20
TUBA4A	0	1.121182489	0.657	0.188	0	3.494680851	spermatid	TUBA4A
FHL5	0	1.120662874	0.785	0.401	0	1.957605985	spermatid	FHL5
BANF2	0	1.119243498	0.708	0.273	0	2.593406593	spermatid	BANF2
TMCO5A	0	1.118417922	0.85	0.469	0	1.812366738	spermatid	TMCO5A
UBL4B	0	1.117262681	0.828	0.461	0	1.796095445	spermatid	UBL4B
LPIN1	0	1.116924348	0.708	0.326	0	2.171779141	spermatid	LPIN1
TRIM36	0	1.104152115	0.867	0.631	0	1.374009509	spermatid	TRIM36
IQGAP2	0	1.100035781	0.743	0.38	0	1.955263158	spermatid	IQGAP2
TSSK1B	0	1.096826745	0.743	0.321	0	2.314641745	spermatid	TSSK1B
EIF4E	0	1.095828168	0.771	0.492	0	1.567073171	spermatid	EIF4E
SPTY2D1-AS1	8.38E-277	1.095272159	0.506	0.437	5.14E-272	1.16E+00	spermatid	SPTY2D1-AS1
PHOSPHO1	0	1.085054286	0.592	0.162	0	3.654320988	spermatid	PHOSPHO1
C12orf54	0	1.08267786	0.674	0.291	0	2.316151203	spermatid	C12orf54
SPACA3	0	1.079896565	0.776	0.392	0	1.979591837	spermatid	SPACA3

CCDC185	0	1.07798541	0.573	0.164	0	3.493902439	spermatid	CCDC185
DNAJA4	0	1.075654541	0.775	0.451	0	1.718403548	spermatid	DNAJA4
CEP170	0	1.073410956	0.731	0.423	0	1.728132388	spermatid	CEP170
LINC01350	0	1.073018182	0.664	0.233	0	2.849785408	spermatid	LINC01350
C2orf88	0	1.070648098	0.72	0.449	0	1.603563474	spermatid	C2orf88
GLRX2	0	1.068347906	0.709	0.299	0	2.371237458	spermatid	GLRX2
NRDC	0	1.060098263	0.814	0.495	0	1.644444444	spermatid	NRDC
SPATA6	0	1.057958661	0.866	0.638	0	1.357366771	spermatid	SPATA6
FAM71E1	0	1.05581497	0.807	0.496	0	1.627016129	spermatid	FAM71E1
C9orf24	0	1.054342839	0.784	0.442	0	1.773755656	spermatid	C9orf24
RFPL3S	0	1.053985307	0.707	0.316	0	2.237341772	spermatid	RFPL3S
CCIN	0	1.053195229	0.671	0.3	0	2.236666667	spermatid	CCIN
PRH1	0	1.051672237	0.672	0.263	0	2.55513308	spermatid	PRH1
FAM205C	0	1.050278917	0.601	0.113	0	5.318584071	spermatid	FAM205C
TMEM210	0	1.049457505	0.678	0.292	0	2.321917808	spermatid	TMEM210
G2E3	0	1.048216538	0.66	0.373	0	1.769436997	spermatid	G2E3
SPATA19	0	1.047736381	0.727	0.34	0	2.138235294	spermatid	SPATA19
TMEM190	0	1.047224605	0.491	0.206	0	2.383495146	spermatid	TMEM190
C11orf71	0	1.046552538	0.835	0.614	0	1.359934853	spermatid	C11orf71
ERICH2	0	1.041688401	0.772	0.527	0	1.464895636	spermatid	ERICH2
TMCO2	0	1.040163302	0.815	0.489	0	1.666666667	spermatid	TMCO2
MORN3	0	1.034700594	0.653	0.196	0	3.331632653	spermatid	MORN3
CABYR	0	1.033688586	0.897	0.652	0	1.375766871	spermatid	CABYR
PAQR7	0	1.032503837	0.675	0.261	0	2.586206897	spermatid	PAQR7
MS4A14	0	1.030389573	0.687	0.311	0	2.209003215	spermatid	MS4A14
FAM81B	0	1.027835823	0.795	0.416	0	1.911057692	spermatid	FAM81B
TEX26	0	1.027535738	0.697	0.337	0	2.068249258	spermatid	TEX26
AKAP3	0	1.021670657	0.756	0.517	0	1.462282398	spermatid	AKAP3
PSMF1	0	1.015951532	0.837	0.676	0	1.23816568	spermatid	PSMF1
BPIFA3	0	1.014622394	0.739	0.342	0	2.160818713	spermatid	BPIFA3
DNAJC5B	0	1.01451615	0.763	0.376	0	2.029255319	spermatid	DNAJC5B
SMIM6	0	1.013627189	0.648	0.225	0	2.88	spermatid	SMIM6
CCNY	0	1.013412591	0.792	0.549	0	1.442622951	spermatid	CCNY
ODF2	0	1.013253795	0.921	0.774	0	1.189922481	spermatid	ODF2
FAM229A	0	1.010992348	0.769	0.506	0	1.519762846	spermatid	FAM229A
RNF133	0	1.005438836	0.663	0.198	0	3.348484848	spermatid	RNF133
EHD1	0	1.004966188	0.8	0.549	0	1.4571949	spermatid	EHD1
FBXO39	0	1.002765128	0.601	0.151	0	3.98013245	spermatid	FBXO39
RP5-1023B21.1	0	1.634303983	0.569	0.318	0	1.789308176	spermatocyte	RP5-1023B21.1
CCDC110	0	1.530789876	0.992	0.436	0	2.275229358	spermatocyte	CCDC110
TBPL1	0	1.489331899	0.978	0.427	0	2.290398126	spermatocyte	TBPL1
LDHC	0	1.387035444	0.996	0.581	0	1.714285714	spermatocyte	LDHC
PTTG1	0	1.380888361	0.988	0.456	0	2.166666667	spermatocyte	PTTG1
CCNA1	0	1.334787395	0.93	0.274	0	3.394160584	spermatocyte	CCNA1
DBF4	0	1.328710594	0.987	0.433	0	2.279445727	spermatocyte	DBF4
PPP3R2	0	1.318933981	0.975	0.452	0	2.157079646	spermatocyte	PPP3R2
PSMG1	0	1.277115783	0.983	0.471	0	2.087048832	spermatocyte	PSMG1
CETN1	0	1.274471716	0.991	0.574	0	1.726480836	spermatocyte	CETN1
ZMYND10	0	1.24013452	0.965	0.387	0	2.493540052	spermatocyte	ZMYND10
PRKCDBP	0	1.229797256	0.91	0.351	0	2.592592593	spermatocyte	PRKCDBP
LYAR	0	1.226779928	0.928	0.363	0	2.556473829	spermatocyte	LYAR
CCNB2	0	1.221245278	0.949	0.296	0	3.206081081	spermatocyte	CCNB2
SPINK2	0	1.219989303	0.993	0.697	0	1.424677188	spermatocyte	SPINK2
ANKRD7	0	1.212887063	0.998	0.755	0	1.321854305	spermatocyte	ANKRD7
LRWD1	0	1.210822523	0.992	0.541	0	1.833641405	spermatocyte	LRWD1
CCDC42	0	1.209718757	0.904	0.251	0	3.601593625	spermatocyte	CCDC42
SPATA16	0	1.208255861	0.958	0.263	0	3.642585551	spermatocyte	SPATA16
PBK	0	1.204109848	0.975	0.385	0	2.532467532	spermatocyte	PBK
MCHR2-AS1	0	1.20408534	0.565	0.199	0	2.83919598	spermatocyte	MCHR2-AS1
LINC01016	0	1.186592644	0.938	0.352	0	2.664772727	spermatocyte	LINC01016
CLGN	0	1.178703266	0.972	0.389	0	2.498714653	spermatocyte	CLGN
LYRM5	0	1.17442062	0.917	0.334	0	2.745508982	spermatocyte	LYRM5
CCDC173	0	1.172021164	0.991	0.48	0	2.064583333	spermatocyte	CCDC173
CCDC62	0	1.167739491	0.977	0.298	0	3.27852349	spermatocyte	CCDC62
AC004381.6	0	1.158955475	0.988	0.466	0	2.120171674	spermatocyte	AC004381.6
RP5.1023B21.1	0	1.149621915	0.379	0.108	0	3.509259259	spermatocyte	RP5.1023B21.1
SNRPC	0	1.148132833	0.952	0.416	0	2.288461538	spermatocyte	SNRPC
GTF2A2	0	1.144773243	0.989	0.683	0	1.448023426	spermatocyte	GTF2A2
SCCPDH	0	1.134084837	0.994	0.621	0	1.600644122	spermatocyte	SCCPDH
MNS1	0	1.127603544	0.976	0.389	0	2.508997429	spermatocyte	MNS1
GYG1	0	1.126662573	0.925	0.399	0	2.318295739	spermatocyte	GYG1
CCT6B	0	1.12148102	0.991	0.492	0	2.014227642	spermatocyte	CCT6B
GKAP1	0	1.115976427	0.994	0.672	0	1.479166667	spermatocyte	GKAP1
ZPBP	0	1.095913439	0.988	0.48	0	2.058333333	spermatocyte	ZPBP
PFN4	0	1.089152562	0.949	0.304	0	3.121710526	spermatocyte	PFN4

RP5-942I16.1	0	1.08874198	0.564	0.228	0	2.473684211	spermatocyte	RP5-942I16.1
GS1-259H13.2	0	1.08717613	0.565	0.233	0	2.424892704	spermatocyte	GS1-259H13.2
SPAG6	0	1.084254332	0.949	0.312	0	3.041666667	spermatocyte	SPAG6
NAA20	0	1.082432973	0.966	0.378	0	2.555555556	spermatocyte	NAA20
HDGFL1	0	1.080174314	0.973	0.428	0	2.273364486	spermatocyte	HDGFL1
AURKA	0	1.07316644	0.757	0.173	0	4.375722543	spermatocyte	AURKA
FBXO25	0	1.068185589	0.984	0.514	0	1.914396887	spermatocyte	FBXO25
H2AFJ	0	1.067607145	0.996	0.767	0	1.298565841	spermatocyte	H2AFJ
ZBPB2	0	1.06633555	0.966	0.399	0	2.421052632	spermatocyte	ZBPB2
IZUMO4	0	1.061386838	0.991	0.669	0	1.481315396	spermatocyte	IZUMO4
APH1B	0	1.0569322	0.992	0.585	0	1.695726496	spermatocyte	APH1B
RGCC	0	1.055846454	0.762	0.125	0	6.096	spermatocyte	RGCC
ASRGL1	0	1.053407162	0.96	0.482	0	1.991701245	spermatocyte	ASRGL1
KIF9	0	1.037800678	0.969	0.428	0	2.264018692	spermatocyte	KIF9
NKAPL	0	1.037505588	0.946	0.301	0	3.142857143	spermatocyte	NKAPL
C7orf55	0	1.037277911	0.948	0.362	0	2.61878453	spermatocyte	C7orf55
C1orf56	0	1.025873417	0.976	0.401	0	2.433915212	spermatocyte	C1orf56
TEX40	0	1.018955035	0.581	0.515	0	1.12815534	spermatocyte	TEX40
TMIGD3	0	1.018641516	0.903	0.267	0	3.382022472	spermatocyte	TMIGD3
SPESP1	0	1.015116922	0.966	0.397	0	2.43324937	spermatocyte	SPESP1
ATPIF1	0	1.006656181	0.993	0.69	0	1.439130435	spermatocyte	ATPIF1
LCA5L	0	1.004122475	0.992	0.571	0	1.737302977	spermatocyte	LCA5L
CCDC83	0	1.003772754	0.925	0.289	0	3.200692042	spermatocyte	CCDC83
COPRS	0	1.002381556	0.983	0.61	0	1.61147541	spermatocyte	COPRS
HIST1H4C	0	2.137783371	0.648	0.133	0	4.872180451	spermatogonia	HIST1H4C
SMC3	0	1.868053418	0.779	0.316	0	2.465189873	spermatogonia	SMC3
TEX101	0	1.857390898	0.57	0.134	0	4.253731343	spermatogonia	TEX101
HIST1H2AA	0	1.668180323	0.533	0.153	0	3.483660131	spermatogonia	HIST1H2AA
TOP2A	0	1.665959043	0.693	0.239	0	2.89958159	spermatogonia	TOP2A
ZCWPW1	0	1.62844774	0.719	0.257	0	2.79766537	spermatogonia	ZCWPW1
SYCP3	0	1.576980764	0.685	0.256	0	2.67578125	spermatogonia	SYCP3
MT.CO1	2.09E-114	1.561129478	0.392	0.326	1.28E-109	1.20E+00	spermatogonia	MT.CO1
SMC1B	0	1.557804682	0.696	0.287	0	2.425087108	spermatogonia	SMC1B
SYCP1	7.74E-270	1.538625933	0.564	0.413	4.75E-265	1.37E+00	spermatogonia	SYCP1
HMGA1	0	1.520084631	0.532	0.088	0	6.045454545	spermatogonia	HMGA1
FMR1NB	0	1.491527206	0.533	0.089	0	5.988764045	spermatogonia	FMR1NB
TKTL1	0	1.462224641	0.531	0.157	0	3.382165605	spermatogonia	TKTL1
NASP	0	1.443823864	0.846	0.329	0	2.571428571	spermatogonia	NASP
MT.ND4	1.76E-71	1.399605175	0.392	0.37	1.08E-66	1.06E+00	spermatogonia	MT.ND4
MT.CO3	2.23E-120	1.377640511	0.391	0.312	1.37E-115	1.25E+00	spermatogonia	MT.CO3
MEIOB	0	1.367214554	0.466	0.131	0	3.557251908	spermatogonia	MEIOB
LY6K	0	1.341604732	0.545	0.062	0	8.790322581	spermatogonia	LY6K
WBSCR22	0	1.336204844	0.796	0.328	0	2.426829268	spermatogonia	WBSCR22
MTATP6P1	2.40E-276	1.321078481	0.379	0.196	1.47E-271	1.93E+00	spermatogonia	MTATP6P1
NCL	0	1.304811857	0.824	0.341	0	2.416422287	spermatogonia	NCL
RAD51AP2	0	1.299923917	0.272	0.09	0	3.022222222	spermatogonia	RAD51AP2
DNAJB6	0	1.296510678	0.805	0.458	0	1.757641921	spermatogonia	DNAJB6
MT.ATP6	3.33E-89	1.283571261	0.388	0.336	2.04E-84	1.15E+00	spermatogonia	MT.ATP6
MT.CO2	3.30E-105	1.276924687	0.388	0.321	2.03E-100	1.21E+00	spermatogonia	MT.CO2
HMGB2	0	1.27495277	0.776	0.327	0	2.373088685	spermatogonia	HMGB2
RPSA	0	1.266399682	0.804	0.571	0	1.408056042	spermatogonia	RPSA
HERC5	0	1.262448432	0.582	0.278	0	2.09352518	spermatogonia	HERC5
CCNI	0	1.250427457	0.797	0.479	0	1.66388309	spermatogonia	CCNI
HNRNPA2B1	0	1.227085764	0.905	0.628	0	1.441082803	spermatogonia	HNRNPA2B1
NAE1	0	1.221647953	0.67	0.082	0	8.170731707	spermatogonia	NAE1
MT-CO3	3.58E-167	1.215871175	0.533	0.452	2.20E-162	1.18E+00	spermatogonia	MT-CO3
DPEP3	0	1.21030811	0.583	0.132	0	4.416666667	spermatogonia	DPEP3
MT-CO2	3.30E-186	1.193011962	0.517	0.414	2.02E-181	1.25E+00	spermatogonia	MT-CO2
SCML1	0	1.191640523	0.421	0.197	0	2.137055838	spermatogonia	SCML1
MTCO1P12	0	1.177774832	0.379	0.177	0	2.141242938	spermatogonia	MTCO1P12
CASC5	0	1.164692089	0.68	0.222	0	3.063063063	spermatogonia	CASC5
BCAP31	0	1.16247561	0.57	0.14	0	4.071428571	spermatogonia	BCAP31
HORMAD1	0	1.152618246	0.632	0.404	0	1.564356436	spermatogonia	HORMAD1
PTGES3	0	1.139057468	0.824	0.451	0	1.827050998	spermatogonia	PTGES3
MT.ND1	2.65E-65	1.137872856	0.393	0.376	1.62E-60	1.05E+00	spermatogonia	MT.ND1
MT.ND5	2.91E-115	1.132683616	0.384	0.3	1.79E-110	1.28E+00	spermatogonia	MT.ND5
MT.ND2	1.91E-59	1.130186724	0.393	0.383	1.17E-54	1.03E+00	spermatogonia	MT.ND2
MT.CYB	8.29E-85	1.123525967	0.383	0.322	5.08E-80	1.19E+00	spermatogonia	MT.CYB
SPINT2	0	1.121256508	0.777	0.453	0	1.715231788	spermatogonia	SPINT2
HSP90AA1	0	1.11843778	0.983	0.844	0	1.164691943	spermatogonia	HSP90AA1
MT-CO1	2.21E-164	1.117629406	0.521	0.435	1.36E-159	1.20E+00	spermatogonia	MT-CO1
CKS2	0	1.114743437	0.804	0.373	0	2.155495979	spermatogonia	CKS2
HMGB1	0	1.111879515	0.765	0.493	0	1.551724138	spermatogonia	HMGB1
PSMD1	0	1.103137701	0.658	0.155	0	4.24516129	spermatogonia	PSMD1
VCX3B	0	1.102279442	0.486	0.115	0	4.226086957	spermatogonia	VCX3B

SMC4	0	1.100422665	0.749	0.352	0	2.127840909	spermatogonia	SMC4
VCX	0	1.099264382	0.472	0.13	0	3.630769231	spermatogonia	VCX
CBX1	0	1.091212379	0.716	0.232	0	3.086206897	spermatogonia	CBX1
RPS12	0	1.084612316	0.903	0.815	0	1.10797546	spermatogonia	RPS12
EIF1B	0	1.082792279	0.755	0.447	0	1.689038031	spermatogonia	EIF1B
RNPS1	0	1.077603043	0.711	0.21	0	3.385714286	spermatogonia	RNPS1
PAGE2B	0	1.063196385	0.497	0.111	0	4.477477477	spermatogonia	PAGE2B
HSP90AB1	0	1.057286621	0.899	0.669	0	1.343796712	spermatogonia	HSP90AB1
DAZL	0	1.05592653	0.687	0.333	0	2.063063063	spermatogonia	DAZL
DUT	0	1.046954035	0.715	0.355	0	2.014084507	spermatogonia	DUT
C5orf47	0	1.041277528	0.631	0.331	0	1.906344411	spermatogonia	C5orf47
PTMA	0	1.036705059	0.916	0.585	0	1.565811966	spermatogonia	PTMA
SRSF9	0	1.034963692	0.714	0.345	0	2.069565217	spermatogonia	SRSF9
PDIA3	0	1.031738156	0.771	0.354	0	2.177966102	spermatogonia	PDIA3
VCX2	0	1.026229305	0.433	0.147	0	2.945578231	spermatogonia	VCX2
BTG3	0	1.025921253	0.638	0.108	0	5.907407407	spermatogonia	BTG3
MTND1P23	1.39E-65	1.024623659	0.391	0.369	8.54E-61	1.06E+00	spermatogonia	MTND1P23
DDX24	0	1.024475448	0.871	0.566	0	1.538869258	spermatogonia	DDX24
CCT8	0	1.022678037	0.716	0.245	0	2.92244898	spermatogonia	CCT8
UBA2	0	1.015870229	0.745	0.326	0	2.285276074	spermatogonia	UBA2
RPN2	0	1.014072835	0.746	0.399	0	1.869674185	spermatogonia	RPN2
HNRNPA3	0	1.012438855	0.804	0.495	0	1.624242424	spermatogonia	HNRNPA3
CLSPN	0	1.008966061	0.372	0.06	0	6.2	spermatogonia	CLSPN
RCN2	0	1.007554328	0.655	0.319	0	2.053291536	spermatogonia	RCN2
CENPH	0	1.007126089	0.602	0.15	0	4.013333333	spermatogonia	CENPH
PRSS50	0	1.002496585	0.444	0.097	0	4.577319588	spermatogonia	PRSS50
B2M5	2.42E-37	3.127936516	0.947	0.252	1.48E-32	3.76E+00	T_cells	B2M
CCL5	0	3.112461415	0.763	0.006	0	127.1666667	T_cells	CCL5
CCL41	1.82E-31	2.931540681	0.5	0.063	1.12E-26	7.94E+00	T_cells	CCL4
IL32	1.25E-204	2.849971491	0.763	0.023	7.65E-200	3.32E+01	T_cells	IL32
S100A44	4.60E-90	2.651859632	0.763	0.053	2.82E-85	1.44E+01	T_cells	S100A4
NKG7	0	2.569689226	0.579	0.001	0	579	T_cells	NKG7
TMSB4X5	6.97E-31	2.505174793	0.974	0.338	4.28E-26	2.88E+00	T_cells	TMSB4X
GZMA	0	2.500833935	0.632	0.001	0	632	T_cells	GZMA
CXCR41	6.58E-213	2.451229727	0.658	0.016	4.04E-208	4.11E+01	T_cells	CXCR4
HLA-B2	6.07E-24	2.450813932	0.789	0.253	3.72E-19	3.12E+00	T_cells	HLA-B
HLA-C5	6.34E-30	2.402507709	0.763	0.177	3.89E-25	4.31E+00	T_cells	HLA-C
HLA-A4	8.43E-19	2.402281545	0.763	0.309	5.17E-14	2.47E+00	T_cells	HLA-A
MALAT15	5.11E-19	2.363279102	1	0.838	3.14E-14	1.19E+00	T_cells	MALAT1
CD52	0	2.301475966	0.684	0.004	0	171	T_cells	CD52
SRGN3	2.47E-99	2.157558697	0.816	0.054	1.52E-94	1.51E+01	T_cells	SRGN
CD692	0	2.124532088	0.684	0.008	0	85.5	T_cells	CD69
CD3D	0	2.102635672	0.632	0.006	0	105.3333333	T_cells	CD3D
CYBA1	2.88E-95	2.102251138	0.684	0.04	1.77E-90	1.71E+01	T_cells	CYBA
GZMK	1.43E-306	2.089078996	0.368	0.003	8.78E-302	1.23E+02	T_cells	GZMK
TRAC	2.02E-36	2.051321005	0.737	0.131	1.24E-31	5.63E+00	T_cells	TRAC
PTPRC1	2.01E-209	2.02977531	0.711	0.019	1.23E-204	3.74E+01	T_cells	PTPRC
SH3BGR32	3.64E-27	1.991738794	0.789	0.214	2.24E-22	3.69E+00	T_cells	SH3BGR3
RPL105	3.67E-23	1.978110654	0.921	0.365	2.25E-18	2.52E+00	T_cells	RPL10
CCL4L21	1.57E-29	1.965608683	0.316	0.026	9.62E-25	1.22E+01	T_cells	CCL4L2
CORO1A1	0	1.953718779	0.684	0.006	0	114	T_cells	CORO1A
CST7	0	1.923266112	0.658	0.001	0	658	T_cells	CST7
XCL2	0	1.918746763	0.211	0	0	#DIV/0!	T_cells	XCL2
ARL4C1	1.24E-121	1.918466635	0.579	0.022	7.61E-117	2.63E+01	T_cells	ARL4C
KLRB1	0	1.912911661	0.368	0	0	#DIV/0!	T_cells	KLRB1
GZMH	0	1.894872657	0.553	0.001	0	553	T_cells	GZMH
KLF65	2.27E-18	1.891645619	0.789	0.291	1.39E-13	2.71E+00	T_cells	KLF6
ARHGDB1	1.82E-83	1.889158055	0.632	0.039	1.12E-78	1.62E+01	T_cells	ARHGDB
TSC22D35	3.31E-29	1.888917216	0.711	0.147	2.03E-24	4.84E+00	T_cells	TSC22D3
CD3E	2.03E-223	1.836331227	0.579	0.012	1.25E-218	4.83E+01	T_cells	CD3E
RPL396	1.99E-23	1.829596079	0.868	0.282	1.22E-18	3.08E+00	T_cells	RPL39
TNFAIP32	1.66E-22	1.806902056	0.579	0.117	1.02E-17	4.95E+00	T_cells	TNFAIP3
HLA-E3	5.70E-43	1.790127976	0.684	0.088	3.50E-38	7.77E+00	T_cells	HLA-E
ACTB6	8.33E-18	1.777603755	0.947	0.587	5.11E-13	1.61E+00	T_cells	ACTB
TRBC21	5.55E-44	1.762690812	0.474	0.041	3.40E-39	1.16E+01	T_cells	TRBC2
ANXA15	8.22E-50	1.755232064	0.711	0.082	5.04E-45	8.67E+00	T_cells	ANXA1
JUNB6	1.08E-19	1.746437116	0.895	0.349	6.65E-15	2.56E+00	T_cells	JUNB
PFN14	1.16E-11	1.677720232	0.737	0.409	7.12E-07	1.80E+00	T_cells	PFN1
HCST1	1.71E-161	1.644058887	0.605	0.018	1.05E-156	3.36E+01	T_cells	HCST
LAPTM51	4.32E-172	1.617072371	0.553	0.014	2.65E-167	3.95E+01	T_cells	LAPTM5
DUSP23	1.31E-42	1.585567918	0.526	0.051	8.06E-38	1.03E+01	T_cells	DUSP2
ZFP36L25	1.70E-24	1.556278636	0.684	0.148	1.05E-19	4.62E+00	T_cells	ZFP36L2
EMP34	8.22E-26	1.543161979	0.711	0.164	5.04E-21	4.34E+00	T_cells	EMP3
GZMM	0	1.528044205	0.5	0.005	0	100	T_cells	GZMM
RPL217	4.56E-16	1.517661792	0.921	0.477	2.80E-11	1.93E+00	T_cells	RPL21

IFNG	0	1.504364458	0.368	0.001	0	368	T_cells	IFNG
CD2	1.02E-23	1.501039098	0.553	0.106	6.28E-19	5.22E+00	T_cells	CD2
CD48	0	1.497801254	0.632	0.008	0	79	T_cells	CD48
RPL416	8.15E-14	1.495896055	0.921	0.788	5.00E-09	1.17E+00	T_cells	RPL41
IL2RG	0	1.48786343	0.474	0.003	0	158	T_cells	IL2RG
GNLY	1.28E-214	1.480726354	0.184	0.001	7.83E-210	1.84E+02	T_cells	GNLY
RPL13A6	3.65E-18	1.468031727	1	0.737	2.24E-13	1.36E+00	T_cells	RPL13A
MYL12A4	2.42E-13	1.456235792	0.711	0.328	1.49E-08	2.17E+00	T_cells	MYL12A
CD742	1.97E-20	1.434664193	0.474	0.079	1.21E-15	6.00E+00	T_cells	CD74
LTB	1.74E-277	1.432012015	0.421	0.005	1.06E-272	8.42E+01	T_cells	LTB
RPS266	4.34E-10	1.412569382	0.789	0.538	2.66E-05	1.47E+00	T_cells	RPS26
RPL18A7	1.56E-11	1.40165442	0.789	0.418	9.59E-07	1.89E+00	T_cells	RPL18A
TMSB105	1.18E-19	1.400185494	0.921	0.398	7.22E-15	2.31E+00	T_cells	TMSB10
RPL27A6	9.07E-15	1.394399084	0.921	0.787	5.56E-10	1.17E+00	T_cells	RPL27A
BTG15	1.83E-10	1.382029935	0.789	0.611	1.12E-05	1.29E+00	T_cells	BTG1
CD3G	1.19E-294	1.379714706	0.526	0.007	7.30E-290	7.51E+01	T_cells	CD3G
RPL145	6.57E-13	1.379033981	0.868	0.646	4.03E-08	1.34E+00	T_cells	RPL14
PPP1R15A6	1.91E-17	1.378753511	0.684	0.197	1.17E-12	3.47E+00	T_cells	PPP1R15A
CLIC15	9.94E-07	1.378316125	0.5	0.265	0.060958577	1.886792453	T_cells	CLIC1
ARPC1B3	1.08E-30	1.373961659	0.553	0.078	6.64E-26	7.09E+00	T_cells	ARPC1B
ID23	1.53E-14	1.370770956	0.5	0.125	9.39E-10	4.00E+00	T_cells	ID2
RPL283	1.38E-13	1.352707575	0.895	0.823	8.48E-09	1.09E+00	T_cells	RPL28
MSN3	1.05E-30	1.351720793	0.526	0.071	6.41E-26	7.41E+00	T_cells	MSN
XCL1	6.18E-68	1.349978567	0.184	0.004	3.79E-63	4.60E+01	T_cells	XCL1
GMFG1	6.57E-35	1.345516303	0.553	0.071	4.03E-30	7.79E+00	T_cells	GMFG
NR4A22	7.40E-11	1.337340606	0.474	0.151	4.54E-06	3.14E+00	T_cells	NR4A2
FYB1	4.47E-33	1.334323851	0.526	0.067	2.74E-28	7.85E+00	T_cells	FYB
CD442	2.93E-15	1.331672981	0.447	0.099	1.80E-10	4.52E+00	T_cells	CD44
RPS196	3.89E-12	1.328646159	0.895	0.759	2.39E-07	1.18E+00	T_cells	RPS19
RPS220	4.54E-14	1.325915503	0.921	0.677	2.79E-09	1.36E+00	T_cells	RPS2
RPS36	5.75E-13	1.323831416	0.895	0.8	3.53E-08	1.12E+00	T_cells	RPS3
CD531	0	1.319877497	0.5	0.005	0	100	T_cells	CD53
FXD52	1.81E-68	1.294808474	0.474	0.026	1.11E-63	1.82E+01	T_cells	FXD5
STK4	2.64E-13	1.286063809	0.579	0.201	1.62E-08	2.88E+00	T_cells	STK4
RPS285	1.75E-09	1.285046059	0.789	0.61	0.000107272	1.293442623	T_cells	RPS28
MT-CYB6	6.75E-12	1.281276348	0.816	0.398	4.14E-07	2.05E+00	T_cells	MT-CYB
S100A65	4.17E-31	1.275479922	0.763	0.133	2.56E-26	5.74E+00	T_cells	S100A6
RPS146	7.30E-13	1.272070694	0.921	0.831	4.48E-08	1.11E+00	T_cells	RPS14
RPS4X6	8.88E-16	1.27201358	0.868	0.349	5.45E-11	2.49E+00	T_cells	RPS4X
ALOX5AP1	6.51E-51	1.26351435	0.395	0.024	3.99E-46	1.65E+01	T_cells	ALOX5AP
CTSW	4.34E-202	1.262777086	0.395	0.006	2.66E-197	6.58E+01	T_cells	CTSW
LCP12	6.35E-11	1.258957818	0.632	0.289	3.89E-06	2.19E+00	T_cells	LCP1
IDS3	1.10E-24	1.255607394	0.474	0.071	6.77E-20	6.68E+00	T_cells	IDS
ITGB21	7.06E-167	1.252912699	0.447	0.009	4.33E-162	4.97E+01	T_cells	ITGB2
MT-ATP66	2.93E-10	1.252203414	0.789	0.435	1.79E-05	1.81E+00	T_cells	MT-ATP6
RPS272	8.67E-09	1.250778346	0.921	0.823	0.000532164	1.119076549	T_cells	RPS27
RPS15A3	6.67E-14	1.246155998	0.947	0.786	4.09E-09	1.20E+00	T_cells	RPS15A
RPL23A4	4.15E-13	1.242524977	0.921	0.737	2.55E-08	1.25E+00	T_cells	RPL23A
DUSP16	1.97E-13	1.240001975	0.605	0.186	1.21E-08	3.25E+00	T_cells	DUSP1
CYTIP1	4.19E-150	1.236364779	0.526	0.014	2.57E-145	3.76E+01	T_cells	CYTIP
IFITM25	1.99E-14	1.228905612	0.579	0.165	1.22E-09	3.51E+00	T_cells	IFITM2
RPL186	9.57E-12	1.204897137	0.868	0.573	5.87E-07	1.51E+00	T_cells	RPL18
RPS186	1.84E-12	1.202952299	0.921	0.853	1.13E-07	1.08E+00	T_cells	RPS18
CFL13	3.29E-09	1.194860611	0.816	0.737	0.000201761	1.107191316	T_cells	CFL1
RPLP16	8.69E-13	1.186660214	0.947	0.766	5.33E-08	1.24E+00	T_cells	RPLP1
NFKBIA6	4.51E-10	1.178935348	0.579	0.214	2.77E-05	2.71E+00	T_cells	NFKBIA
HLA-F1	1.98E-31	1.171844426	0.474	0.057	1.21E-26	8.32E+00	T_cells	HLA-F
MT-CO25	6.73E-11	1.166591976	0.816	0.436	4.13E-06	1.87E+00	T_cells	MT-CO2
MT-CO16	8.77E-11	1.160332997	0.816	0.453	5.38E-06	1.80E+00	T_cells	MT-CO1
RPS27A5	5.41E-11	1.159704956	0.895	0.861	3.32E-06	1.04E+00	T_cells	RPS27A
RPS293	8.28E-16	1.158075908	0.947	0.886	5.08E-11	1.07E+00	T_cells	RPS29
TRGC2	2.46E-22	1.154485228	0.289	0.029	1.51E-17	9.97E+00	T_cells	TRGC2
RAC22	2.52E-274	1.150653777	0.421	0.005	1.54E-269	8.42E+01	T_cells	RAC2
PRF1	0	1.14859051	0.368	0	0	#DIV/0!	T_cells	PRF1
RPL115	1.06E-13	1.14537865	0.947	0.826	6.50E-09	1.15E+00	T_cells	RPL11
ITM2A3	3.83E-26	1.135321999	0.526	0.078	2.35E-21	6.74E+00	T_cells	ITM2A
RPL65	1.72E-12	1.134489377	0.895	0.684	1.06E-07	1.31E+00	T_cells	RPL6
MT-ND54	4.08E-12	1.12546542	0.763	0.297	2.50E-07	2.57E+00	T_cells	MT-ND5
RSRP11	7.31E-08	1.124193705	0.553	0.282	0.004481985	1.960992908	T_cells	RSRP1
GPR1831	3.86E-45	1.107271701	0.289	0.014	2.37E-40	2.06E+01	T_cells	GPR183
ICAM3	2.34E-15	1.107108716	0.395	0.078	1.43E-10	5.06E+00	T_cells	ICAM3
EEF1A16	2.55E-15	1.105122166	0.974	0.925	1.56E-10	1.05E+00	T_cells	EEF1A1
TXNIP4	1.94E-11	1.103300395	0.553	0.174	1.19E-06	3.18E+00	T_cells	TXNIP
RPL265	1.04E-11	1.100397856	0.895	0.755	6.40E-07	1.19E+00	T_cells	RPL26
GPSM31	4.77E-40	1.098674797	0.368	0.027	2.93E-35	1.36E+01	T_cells	GPSM3

RPL306	4.69E-15	1.092321233	0.947	0.879	2.87E-10	1.08E+00	T_cells	RPL30
RPL125	5.08E-09	1.091666505	0.816	0.635	0.000311604	1.28503937	T_cells	RPL12
SLC2A33	5.81E-12	1.082967705	0.395	0.093	3.56E-07	4.25E+00	T_cells	SLC2A3
MT-ND16	1.18E-09	1.061143185	0.789	0.411	7.27E-05	1.92E+00	T_cells	MT-ND1
RPL10A5	6.84E-11	1.054208494	0.868	0.663	4.20E-06	1.31E+00	T_cells	RPL10A
IL7R	1.60E-69	1.043591784	0.237	0.006	9.84E-65	3.95E+01	T_cells	IL7R
RPS155	3.56E-10	1.043189129	0.895	0.766	2.18E-05	1.17E+00	T_cells	RPS15
RPS85	3.63E-10	1.037475108	0.868	0.776	2.23E-05	1.12E+00	T_cells	RPS8
RGS101	1.04E-23	1.037099479	0.316	0.033	6.41E-19	9.58E+00	T_cells	RGS10
GLIPR11	2.73E-05	1.029972478	0.316	0.125	1	2.528	T_cells	GLIPR1
ARL6IP55	2.30E-08	1.029876999	0.5	0.205	0.001409505	2.43902439	T_cells	ARL6IP5
COTL11	1.35E-09	1.029777235	0.342	0.086	8.28E-05	3.98E+00	T_cells	COTL1
LEPROTL1	0.004685222	1.028536319	0.5	0.435	1	1.149425287	T_cells	LEPROTL1
CALM14	1.30E-06	1.026986507	0.737	0.693	0.079618984	1.063492063	T_cells	CALM1
RPL194	3.15E-11	1.025814503	0.921	0.839	1.93E-06	1.10E+00	T_cells	RPL19
ADGRE51	2.01E-34	1.024978124	0.316	0.023	1.23E-29	1.37E+01	T_cells	ADGRE5
MT-CO34	1.02E-09	1.023247521	0.816	0.47	6.25E-05	1.74E+00	T_cells	MT-CO3
LSP12	2.47E-33	1.022479894	0.368	0.031	1.52E-28	1.19E+01	T_cells	LSP1
HCLS11	5.37E-92	1.020180489	0.395	0.013	3.30E-87	3.04E+01	T_cells	HCLS1
RPS165	1.52E-09	1.0174571	0.842	0.757	9.34E-05	1.11E+00	T_cells	RPS16
LY6E3	1.92E-07	1.0165921	0.368	0.119	0.011757004	3.092436975	T_cells	LY6E
RPLP21	5.45E-10	1.016155388	0.947	0.835	3.34E-05	1.13E+00	T_cells	RPLP2
LCK	1.85E-85	1.01233322	0.289	0.008	1.13E-80	3.61E+01	T_cells	LCK
MT-ND36	4.47E-10	1.002094498	0.789	0.375	2.74E-05	2.10E+00	T_cells	MT-ND3
TAGLN1	0	3.6510815	0.941	0.129	0	7.294573643	VSM_cells	TAGLN
ADIRF2	0	3.248291087	0.877	0.118	0	7.43220339	VSM_cells	ADIRF
TPM21	0	2.99208043	0.909	0.137	0	6.635036496	VSM_cells	TPM2
MYH111	0	2.686007961	0.937	0.184	0	5.092391304	VSM_cells	MYH11
ACTA21	0	2.662911479	0.924	0.174	0	5.310344828	VSM_cells	ACTA2
GADD45B4	0	2.618912838	0.848	0.181	0	4.685082873	VSM_cells	GADD45B
MYL91	0	2.486523818	0.905	0.15	0	6.033333333	VSM_cells	MYL9
VIM4	1.40E-261	2.42576747	0.943	0.444	8.58E-257	2.12E+00	VSM_cells	VIM
CALD12	0	2.42188149	0.937	0.227	0	4.127753304	VSM_cells	CALD1
C11orf962	0	2.396933686	0.871	0.266	0	3.27443609	VSM_cells	C11orf96
IGFBP52	0	2.326690954	0.751	0.06	0	12.51666667	VSM_cells	IGFBP5
FLNA2	0	2.282760011	0.856	0.106	0	8.075471698	VSM_cells	FLNA
RERGL	0	2.273889949	0.715	0.013	0	55	VSM_cells	RERGL
MALAT14	1.04E-173	2.246974741	0.953	0.836	6.37E-169	1.14E+00	VSM_cells	MALAT1
DSTN1	3.21E-224	2.246848528	0.909	0.555	1.97E-219	1.64E+00	VSM_cells	DSTN
IER24	0	2.246074872	0.841	0.168	0	5.005952381	VSM_cells	IER2
RGS5	2.42E-140	2.175761577	0.467	0.123	1.48E-135	3.80E+00	VSM_cells	RGS5
MT2A3	1.90E-298	2.153642436	0.82	0.222	1.17E-293	3.69E+00	VSM_cells	MT2A
RGS162	0	2.108192889	0.457	0.051	0	8.960784314	VSM_cells	RGS16
MCAM	0	2.099309356	0.799	0.028	0	28.53571429	VSM_cells	MCAM
TPM11	0	1.97354633	0.833	0.195	0	4.271794872	VSM_cells	TPM1
RPL104	5.56E-256	1.950458101	0.92	0.356	3.41E-251	2.58E+00	VSM_cells	RPL10
MT-ATP64	5.46E-217	1.942218328	0.907	0.426	3.35E-212	2.13E+00	VSM_cells	MT-ATP6
RRAD	0	1.939779	0.693	0.049	0	14.14285714	VSM_cells	RRAD
SPARCL13	0	1.931795612	0.909	0.154	0	5.902597403	VSM_cells	SPARCL1
MT-ND14	1.23E-229	1.912284018	0.903	0.402	7.53E-225	2.25E+00	VSM_cells	MT-ND1
S100A64	0	1.893277911	0.708	0.123	0	5.756097561	VSM_cells	S100A6
PLN	0	1.870307559	0.759	0.176	0	4.3125	VSM_cells	PLN
MT-CYB4	4.36E-222	1.844598538	0.901	0.389	2.67E-217	2.32E+00	VSM_cells	MT-CYB
KLF24	0	1.843926231	0.782	0.158	0	4.949367089	VSM_cells	KLF2
MFGE81	0	1.811727984	0.82	0.08	0	10.25	VSM_cells	MFGE8
MT1E1	0	1.786292698	0.655	0.057	0	11.49122807	VSM_cells	MT1E
FOS4	5.79E-248	1.785533705	0.886	0.303	3.55E-243	2.92E+00	VSM_cells	FOS
MYL63	2.02E-191	1.77227303	0.911	0.661	1.24E-186	1.38E+00	VSM_cells	MYL6
ATF34	0	1.77145526	0.746	0.108	0	6.907407407	VSM_cells	ATF3
JUNB4	6.65E-234	1.761869585	0.888	0.34	4.08E-229	2.61E+00	VSM_cells	JUNB
CCL23	0	1.760798856	0.469	0.039	0	12.02564103	VSM_cells	CCL2
MT-ND34	1.19E-225	1.729594348	0.896	0.366	7.27E-221	2.45E+00	VSM_cells	MT-ND3
MT-ND53	4.85E-259	1.715428962	0.877	0.287	2.98E-254	3.06E+00	VSM_cells	MT-ND5
04-Jun	3.74E-209	1.707128986	0.882	0.362	2.29E-204	2.44E+00	VSM_cells	JUN
SELM3	1.20E-284	1.691482505	0.776	0.208	7.38E-280	3.73E+00	VSM_cells	SELM
MT1M1	0	1.67288586	0.666	0.025	0	26.64	VSM_cells	MT1M
RHOB4	6.45E-270	1.672568679	0.822	0.231	3.95E-265	3.56E+00	VSM_cells	RHOB
LBH	0	1.670013068	0.708	0.09	0	7.866666667	VSM_cells	LBH
ZFP364	3.05E-296	1.654008261	0.863	0.233	1.87E-291	3.70E+00	VSM_cells	ZFP36
MT-ND24	1.11E-215	1.635799339	0.905	0.404	6.82E-211	2.24E+00	VSM_cells	MT-ND2
LGALS12	0	1.603074074	0.839	0.197	0	4.258883249	VSM_cells	LGALS1
MT-ND44	7.99E-203	1.598543694	0.905	0.41	4.90E-198	2.21E+00	VSM_cells	MT-ND4
CSRP11	0	1.592800308	0.744	0.106	0	7.018867925	VSM_cells	CSRP1
SNCG1	0	1.587402931	0.611	0.025	0	24.44	VSM_cells	SNCG
IGFBP73	3.59E-287	1.582479946	0.928	0.276	2.20E-282	3.36E+00	VSM_cells	IGFBP7

CAV13	0	1.539492586	0.801	0.094	0	8.521276596	VSM_cells	CAV1
MT-CO14	3.32E-190	1.533203665	0.905	0.445	2.03E-185	2.03E+00	VSM_cells	MT-CO1
HSPB13	1.22E-270	1.526678344	0.803	0.212	7.45E-266	3.79E+00	VSM_cells	HSPB1
MYLK1	0	1.515664617	0.822	0.186	0	4.419354839	VSM_cells	MYLK
TMSB4X4	4.20E-229	1.509917426	0.886	0.329	2.58E-224	2.69E+00	VSM_cells	TMSB4X
BGN1	0	1.50937704	0.687	0.081	0	8.481481481	VSM_cells	BGN
MT-CO32	1.07E-182	1.505875222	0.907	0.462	6.58E-178	1.96E+00	VSM_cells	MT-CO3
LMOD11	0	1.493219633	0.693	0.046	0	15.06521739	VSM_cells	LMOD1
C10orf101	0	1.471562742	0.452	0.037	0	12.21621622	VSM_cells	C10orf10
TIMP33	0	1.444683249	0.841	0.165	0	5.096969697	VSM_cells	TIMP3
MGST32	2.11E-264	1.439959248	0.812	0.228	1.29E-259	3.56E+00	VSM_cells	MGST3
TINAGL11	0	1.4295101	0.662	0.013	0	50.92307692	VSM_cells	TINAGL1
RPL144	8.32E-147	1.425716837	0.865	0.642	5.11E-142	1.35E+00	VSM_cells	RPL14
DES	1.96E-265	1.420700284	0.524	0.084	1.20E-260	6.24E+00	VSM_cells	DES
ID32	0	1.416443405	0.567	0.038	0	14.92105263	VSM_cells	ID3
RPS4X4	1.63E-195	1.381236901	0.869	0.34	1.00E-190	2.56E+00	VSM_cells	RPS4X
NOTCH3	0	1.379725307	0.668	0.018	0	37.11111111	VSM_cells	NOTCH3
BTG24	1.23E-269	1.37294359	0.649	0.123	7.52E-265	5.28E+00	VSM_cells	BTG2
RPL184	5.38E-152	1.36810521	0.888	0.568	3.30E-147	1.56E+00	VSM_cells	RPL18
ACTB4	1.66E-162	1.366845273	0.905	0.581	1.02E-157	1.56E+00	VSM_cells	ACTB
CTGF2	3.62E-228	1.363185346	0.442	0.066	2.22E-223	6.70E+00	VSM_cells	CTGF
PTRF3	0	1.358473814	0.772	0.109	0	7.082568807	VSM_cells	PTRF
PTMA4	1.92E-167	1.356637446	0.924	0.652	1.18E-162	1.42E+00	VSM_cells	PTMA
RPLP14	1.54E-143	1.348521921	0.924	0.764	9.45E-139	1.21E+00	VSM_cells	RPLP1
SORBS2	0	1.342233682	0.617	0.028	0	22.03571429	VSM_cells	SORBS2
CD92	0	1.338313563	0.698	0.084	0	8.30952381	VSM_cells	CD9
NEAT14	5.28E-239	1.332646518	0.755	0.187	3.24E-234	4.04E+00	VSM_cells	NEAT1
EGR14	2.40E-217	1.325550068	0.814	0.254	1.47E-212	3.20E+00	VSM_cells	EGR1
MT-CO23	2.44E-173	1.324593726	0.903	0.428	1.49E-168	2.11E+00	VSM_cells	MT-CO2
SOD3	1.83E-195	1.324129	0.767	0.289	1.12E-190	2.65E+00	VSM_cells	SOD3
RPL10A4	2.95E-151	1.321086945	0.894	0.659	1.81E-146	1.36E+00	VSM_cells	RPL10A
RPL18A5	3.83E-157	1.319566143	0.85	0.41	2.35E-152	2.07E+00	VSM_cells	RPL18A
COL18A12	0	1.277780872	0.609	0.075	0	8.12	VSM_cells	COL18A1
NEXN1	0	1.258423458	0.632	0.105	0	6.019047619	VSM_cells	NEXN
TNS12	0	1.246947843	0.751	0.095	0	7.905263158	VSM_cells	TNS1
CD1512	0	1.24420552	0.66	0.094	0	7.021276596	VSM_cells	CD151
PPP1R14A2	4.18E-289	1.241178755	0.717	0.142	2.57E-284	5.05E+00	VSM_cells	PPP1R14A
GSTP14	6.70E-286	1.23242629	0.763	0.164	4.11E-281	4.65E+00	VSM_cells	GSTP1
RPL215	5.49E-163	1.232247051	0.903	0.47	3.37E-158	1.92E+00	VSM_cells	RPL21
BCAM1	0	1.232133082	0.649	0.051	0	12.7254902	VSM_cells	BCAM
FAM129A1	0	1.230336991	0.63	0.018	0	35	VSM_cells	FAM129A
RCAN2	1.69E-270	1.224882466	0.664	0.147	1.04E-265	4.52E+00	VSM_cells	RCAN2
EEF1A14	2.62E-158	1.222939536	0.966	0.924	1.61E-153	1.05E+00	VSM_cells	EEF1A1
HES4	0	1.219937221	0.605	0.032	0	18.90625	VSM_cells	HES4
CCND11	0	1.215994871	0.529	0.043	0	12.30232558	VSM_cells	CCND1
PPP1R12B	6.40E-226	1.208954869	0.655	0.168	3.93E-221	3.90E+00	VSM_cells	PPP1R12B
AC013461.1	2.16E-216	1.203757591	0.66	0.172	1.32E-211	3.84E+00	VSM_cells	AC013461.1
CRYAB1	3.65E-270	1.199983247	0.605	0.116	2.24E-265	5.22E+00	VSM_cells	CRYAB
FXYD12	0	1.197076002	0.632	0.044	0	14.36363636	VSM_cells	FXYD1
ZFH31	0	1.196508471	0.613	0.081	0	7.567901235	VSM_cells	ZFH3
JAG11	0	1.195251288	0.588	0.042	0	14	VSM_cells	JAG1
ACTN41	3.38E-235	1.191879921	0.655	0.155	2.07E-230	4.23E+00	VSM_cells	ACTN4
AHNAK4	1.54E-281	1.1877623	0.753	0.162	9.45E-277	4.65E+00	VSM_cells	AHNAK
NDUFA4L2	1.43E-226	1.184287472	0.368	0.048	8.78E-222	7.67E+00	VSM_cells	NDUFA4L2
NDUFA41	1.38E-128	1.180068949	0.827	0.521	8.45E-124	1.59E+00	VSM_cells	NDUFA4
NET1	3.46E-207	1.180000092	0.575	0.132	2.12E-202	4.36E+00	VSM_cells	NET1
ITGB12	2.14E-238	1.171453281	0.784	0.206	1.31E-233	3.81E+00	VSM_cells	ITGB1
B2M4	1.81E-278	1.169560139	0.899	0.241	1.11E-273	3.73E+00	VSM_cells	B2M
RPS84	5.10E-129	1.161458988	0.896	0.774	3.13E-124	1.16E+00	VSM_cells	RPS8
IRF14	1.00E-136	1.160449795	0.63	0.216	6.16E-132	2.92E+00	VSM_cells	IRF1
PTMS3	7.98E-247	1.158769228	0.786	0.204	4.89E-242	3.85E+00	VSM_cells	PTMS
GUCY1A3	0	1.155514646	0.575	0.008	0	71.875	VSM_cells	GUCY1A3
RPL64	1.70E-127	1.153207381	0.875	0.681	1.04E-122	1.28E+00	VSM_cells	RPL6
OGN2	4.60E-227	1.15111707	0.465	0.072	2.82E-222	6.46E+00	VSM_cells	OGN
SOCS34	8.01E-294	1.144648977	0.666	0.117	4.92E-289	5.69E+00	VSM_cells	SOCS3
NR2F23	9.59E-261	1.139787009	0.729	0.16	5.89E-256	4.56E+00	VSM_cells	NR2F2
ITGA8	0	1.135196677	0.564	0.004	0	141	VSM_cells	ITGA8
CRIM11	0	1.12687282	0.59	0.042	0	14.04761905	VSM_cells	CRIM1
MT-ND4L2	5.94E-225	1.121773447	0.715	0.176	3.65E-220	4.06E+00	VSM_cells	MT-ND4L
SLIT3	0	1.120347206	0.577	0.082	0	7.036585366	VSM_cells	SLIT3
ID4	2.73E-216	1.116524662	0.514	0.092	1.68E-211	5.59E+00	VSM_cells	ID4
CDKN1A3	4.48E-224	1.116099868	0.6	0.122	2.75E-219	4.92E+00	VSM_cells	CDKN1A
SH3BGR5	0	1.11067493	0.67	0.103	0	6.504854369	VSM_cells	SH3BGR
SYNPO21	0	1.104246504	0.598	0.051	0	11.7254902	VSM_cells	SYNPO2
SLC25A64	6.95E-242	1.10254489	0.755	0.186	4.26E-237	4.06E+00	VSM_cells	SLC25A6

SEPW11	1.69E-126	1.097504363	0.812	0.53	1.04E-121	1.53E+00	VSM_cells	SEPW1
KLF64	3.84E-167	1.097205163	0.759	0.283	2.36E-162	2.68E+00	VSM_cells	KLF6
RPS144	6.67E-138	1.096072503	0.941	0.829	4.09E-133	1.14E+00	VSM_cells	RPS14
CD634	1.92E-183	1.094631106	0.82	0.283	1.18E-178	2.90E+00	VSM_cells	CD63
NR4A13	2.32E-149	1.082498431	0.706	0.254	1.42E-144	2.78E+00	VSM_cells	NR4A1
ADAMTS13	5.72E-262	1.082095574	0.537	0.083	3.51E-257	6.47E+00	VSM_cells	ADAMTS1
TBX2	0	1.080376078	0.497	0.027	0	18.40740741	VSM_cells	TBX2
CRIP1	0	1.078837251	0.524	0.014	0	37.42857143	VSM_cells	CRIP1
CSRP2	2.77E-111	1.072080235	0.63	0.279	1.70E-106	2.26E+00	VSM_cells	CSRP2
PNRC14	1.60E-135	1.069628763	0.793	0.391	9.79E-131	2.03E+00	VSM_cells	PNRC1
MEF2C2	2.58E-219	1.058432719	0.619	0.147	1.58E-214	4.21E+00	VSM_cells	MEF2C
A2M2	3.32E-307	1.055802396	0.634	0.105	2.04E-302	6.04E+00	VSM_cells	A2M
RPL27A4	6.42E-123	1.051687049	0.89	0.785	3.94E-118	1.13E+00	VSM_cells	RPL27A
MSRB31	0	1.049305378	0.571	0.073	0	7.821917808	VSM_cells	MSRB3
CYR612	5.39E-237	1.044637345	0.588	0.109	3.31E-232	5.39E+00	VSM_cells	CYR61
RPS27A4	2.36E-131	1.044309363	0.926	0.86	1.45E-126	1.08E+00	VSM_cells	RPS27A
FN12	1.91E-195	1.041741419	0.457	0.079	1.17E-190	5.78E+00	VSM_cells	FN1
FOXC12	0	1.041595094	0.531	0.065	0	8.169230769	VSM_cells	FOXC1
RPL13A4	7.58E-118	1.040514976	0.892	0.735	4.65E-113	1.21E+00	VSM_cells	RPL13A
LMNA4	7.94E-132	1.038897531	0.757	0.365	4.87E-127	2.07E+00	VSM_cells	LMNA
PDLIM11	0	1.036461201	0.596	0.09	0	6.622222222	VSM_cells	PDLIM1
S100A42	8.23E-117	1.036205269	0.288	0.05	5.05E-112	5.76E+00	VSM_cells	S100A4
FRZB	0	1.035877879	0.516	0.025	0	20.64	VSM_cells	FRZB
CD441	1.38E-209	1.033103464	0.49	0.092	8.49E-205	5.33E+00	VSM_cells	CD44
PPP1R15A4	1.05E-191	1.033017617	0.702	0.188	6.46E-187	3.73E+00	VSM_cells	PPP1R15A
RPS164	2.64E-126	1.032377	0.899	0.755	1.62E-121	1.19E+00	VSM_cells	RPS16
RPL414	8.02E-129	1.030022165	0.915	0.785	4.92E-124	1.17E+00	VSM_cells	RPL41
UTRN1	3.26E-123	1.023377845	0.759	0.364	2.00E-118	2.09E+00	VSM_cells	UTRN
PPP1R12A	7.02E-104	1.020585394	0.759	0.474	4.31E-99	1.60E+00	VSM_cells	PPP1R12A
PDLIM31	0	1.014196211	0.564	0.05	0	11.28	VSM_cells	PDLIM3
RAMP1	0	1.013053663	0.469	0.019	0	24.68421053	VSM_cells	RAMP1
RPL243	1.70E-114	1.01116579	0.884	0.741	1.04E-109	1.19E+00	VSM_cells	RPL24
CPE2	7.54E-201	1.006625468	0.736	0.205	4.62E-196	3.59E+00	VSM_cells	CPE
NTRK21	0	1.005608146	0.531	0.027	0	19.66666667	VSM_cells	NTRK2
CCDC31	0	1.004779736	0.567	0.04	0	14.175	VSM_cells	CCDC3