Table S3. The differentially expressed genes between the eight cell clusters.

Gene	p_val	avg_logFC	pct.1	pct.2	p_val_adj	cluster
AIF1	0	1.894904043	0.985	0.409	0	0
MS4A6A	0	1.867103037	0.863	0.425	0	0
FCER1G	0	1.728135623	0.974	0.598	0	0
CTSL	0	1.700960759	0.797	0.5	0	0
CTSB	0	1.697879859	0.951	0.721	0	0
TYROBP	0	1.632369743	0.994	0.612	0	0
LYZ	0	1.618473793	0.967	0.488	0	0
CD14	0	1.61513736	0.763	0.303	0	0
C1QC	0	1.56660644	0.769	0.345	0	0
HLA-DRA	0	1.486917918	1	0.921	0	0
HLA-DQA1	0	1.477305104	0.891	0.523	0	0
CST3	0	1.476945476	0.998	0.829	0	0
HLA-DPB1	0	1.47522167	0.995	0.845	0	0
HLA-DRB5	0	1.460641748	0.783	0.69	0	0
CTSD	0	1.450862356	0.923	0.812	0	0
CD68	0	1.402721265	0.932	0.45	0	0
FTL	0	1.394818823	1	0.998	0	0
HLA-DRB1	0	1.388743983	0.997	0.892	0	0
FAM26F	0	1.357477161	0.655	0.269	0	0
PSAP	0	1.332337994	0.977	0.841	0	0
GPX1	0	1.326308922	0.988	0.884	0	0
TMEM176B	0	1.317418592	0.768	0.388	0	0
HLA-DQB1	0	1.300554239	0.947	0.577	0	0
LST1	0	1.281380372	0.885	0.458	0	0
HLA-DPA1	0	1.275975917	0.988	0.845	0	0
MS4A4A	0	1.268996447	0.798	0.502	0	0
C1QB	0	1.268663902	0.847	0.52	0	0
C1QA	0	1.262379272	0.863	0.538	0	0
GPNMB	0	1.240834216	0.683	0.301	0	0
GLUL	0	1.230440763	0.928	0.774	0	0
CTSS	0	1.225143613	0.956	0.602	0	0
RNASE6	0	1.201364659	0.789	0.498	0	0
C1orf162	0	1.193899467	0.926	0.502	0	0
CD74	0	1.189404051	1	0.973	0	0
C15orf48	0	1.161264186	0.786	0.61	0	0
PLAUR	0	1.152683712	0.799	0.633	0	0
MNDA	0	1.151342346	0.782	0.48	0	0
TYMP	0	1.130513829	0.943	0.848	0	0
FCGR3A	0	1.090424569	0.796	0.5	0	0
IGSF6	0	1.089883708	0.674	0.274	0	0
CTSZ	0	1.086314203	0.868	0.709	0	0
CAPG	0	1.082283702	0.923	0.731	0	0
IFI30	0	1.069461352	0.737	0.578	0	0
TNFSF13B	0	1.068131728	0.738	0.58	0	0
SDS	0	1.053715833	0.463	0.188	0	0
HLA-DMB	0	1.038884309	0.856	0.57	0	0
TGFBI	0	1.037364503	0.726	0.584	0	0
CD163	0	1.030477654	0.663	0.227	0	0
LGALS1	0	1.006317542	0.987	0.889	0	0
NPC2	0	1.002021827	0.986	0.804	0	0
FGL2	7.93E-284	1.086869081	0.657	0.484	1.59E-280	0
MAFB	1.75E-277	1.094854868	0.725	0.597	3.51E-274	0
S100A9	7.30E-231	1.030478226	0.846	0.656	1.46E-227	0
FCN1	1.72E-229	1.284721364	0.486	0.307	3.43E-226	0
RNASE1	2.09E-216	1.346256857	0.64	0.426	4.17E-213	0
S100A8	1.66E-211	1.50997078	0.677	0.488	3.32E-208	0

APOE	1.67E-195	1.710269626	0.704	0.581	3.34E-192	0
CCL18	3.54E-133	1.307484189	0.62	0.459	7.09E-130	0
SPP1	6.47E-81	3.112863656	0.518	0.504	1.29E-77	0
CXCL10	0.00017163	1.169488288	0.337	0.527	0.3432549	0
CD3D	0	1.01184962	0.914	0.379	0	1
LTB	1.26E-232	1.046257744	0.801	0.331	2.53E-229	1
FABP4	0	3.247984704	0.963	0.342	0	2
MARCO	0	2.224418294	0.997	0.362	0	2
APOC1	0	2.043669357	0.999	0.626	0	2
C19orf59	0	1.817318037	0.96	0.249	0	2
C1QB1	0	1.806105213	0.991	0.545	0	2
C1QA1	0	1.780620885	0.993	0.564	0	2
FBP1	0	1.774170679	0.987	0.565	0	2
ALDH2	0	1.67372744	0.993	0.628	0	2
CCL181	0	1.646322973	0.941	0.442	0	2
SERPINA1	0	1.616251341	0.993	0.487	0	2
MSR1	0	1.588838233	0.965	0.319	0	2
GCHFR	0	1.555059046	0.967	0.471	0	2
VSIG4	0	1.53570009	0.98	0.36	0	2
LGALS3	0	1.512799283	0.999	0.768	0	2
FTL1	0	1.493929647	1	0.998	0	2
MS4A7	0	1.484649589	0.993	0.555	0	2
FTH1	0	1.471553065	1	0.999	0	2
ACP5	0	1.456038673	0.994	0.518	0	2
CD52	0	1.446363261	0.998	0.755	0	2
LYZ1	0	1.444455017	1	0.546	0	2
CES1	0	1.406306069	0.884	0.408	0	2
INHBA	0	1.384080958	0.802	0.329	0	2
GRN	0	1.380986081	1	0.812	0	2
ALOX5AP	0	1.343669892	0.993	0.675	0	2
TSPO	0	1.319278895	1	0.911	0	2
LTA4H	0	1.312681874	0.973	0.476	0	2
RETN	0	1.310148856	0.788	0.197	0	2
OLR1	0	1.30074779	0.913	0.393	0	2
TREM1	0	1.286265961	0.972	0.535	0	2
CD681	0	1.276971697	1	0.504	0	2
CXCL3	0	1.273843449	0.837	0.42	0	2
TYROBP1	0	1.230756472	1	0.661	0	2
C1QC1	0	1.200938649	0.979	0.375	0	2
RGCC	0	1.198181641	0.971	0.501	0	2
FABP5	0	1.190639571	0.971	0.659	0	2
SNX10	0	1.163954883	0.958	0.398	0	2
APOE1	0	1.154413391	0.96	0.567	0	2
SERPING1	0	1.095336885	0.939	0.625	0	2
S100A4	0	1.087452323	1	0.814	0	2
CYP27A1	0	1.080851204	0.881	0.245	0	2
CSTB	0	1.079554253	0.998	0.863	0	2
CSTA	0	1.070295731	0.92	0.374	0	2
CXCL16	0	1.064691441	0.977	0.593	0	2
GLRX	0	1.064096104	0.975	0.695	0	2
SPI1	0	1.063873471	0.963	0.504	0	2
CFD	0	1.044797973	0.977	0.608	0	2
FCGRT	0	1.034912284	0.991	0.631	0	2
PPARG	0	1.02395455	0.866	0.289	0	2
S100A11	0	1.023942589	1	0.964	0	2
VIM	0	1.020439828	1	0.867	0	2
C1orf1621	0	1.019633739	0.989	0.549	0	2
CTSD1	0	1.017458088	0.999	0.817	0	2

HLA-DRA1	0	1.011107399	1	0.932	0	2
PLBD1	0	1.006378729	0.888	0.483	0	2
CTSC	0	1.002951241	0.981	0.769	0	2
CTSS1	0	1.000544666	0.993	0.644	0	2
RBP4	6.60E-304	1.205015116	0.573	0.082	1.32E-300	2
FN1	1.77E-155	1.233263185	0.763	0.615	3.54E-152	2
CRIP1	2.40E-148	1.121555887	0.842	0.63	4.81E-145	2
CXCL13	0	2.475595469	0.886	0.284	0	3
CD3D1	0	1.614792397	0.928	0.396	0	3
CD2	0	1.453201295	0.939	0.309	0	3
CORO1A	0	1.397400414	0.997	0.59	0	3
IL32	0	1.372580043	0.958	0.631	0	3
CTSW	0	1.366830738	0.884	0.279	0	3
LAG3	0	1.246954337	0.897	0.192	0	3
PTPRCAP	0	1.16710203	0.968	0.44	0	3
DUSP4	0	1.119738308	0.916	0.416	0	3
KIAA0101	0	1.052327349	0.957	0.399	0	3
ITM2A	0	1.007372777	0.918	0.304	0	3
HMGB2	8.43E-282	1.381470425	0.99	0.632	1.69E-278	3
GZMA	3.55E-257	2.219821623	0.791	0.286	7.11E-254	3
GZMB	1.63E-253	1.959099443	0.88	0.398	3.26E-250	3
CD7	2.80E-227	1.311768516	0.836	0.358	5.60E-224	3
CCL5	2.12E-225	1.999879301	0.818	0.406	4.24E-222	3
LCK	5.84E-224	1.012422957	0.804	0.24	1.17E-220	3
CCL4	3.92E-206	1.782577418	0.835	0.449	7.84E-203	3
NKG7	1.03E-202	1.716914441	0.785	0.38	2.07E-199	3
CCL3	4.22E-190	1.329564403	0.864	0.469	8.44E-187	3
GNLY	1.16E-158	2.201114933	0.751	0.372	2.32E-155	3
CST7	1.06E-149	1.017441937	0.746	0.292	2.13E-146	3
PRF1	1.11E-106	1.015236821	0.661	0.2	2.22E-103	3
GZMH	1.12E-76	1.023902464	0.611	0.171	2.23E-73	3
IFNG	1.77E-53	1.163852151	0.568	0.167	3.55E-50	3
GZMK	7.56E-42	1.272808911	0.513	0.136	1.51E-38	3
FABP7	0	3.168822567	0.889	0.44	0	4
CDKN2A	0	2.216897974	0.995	0.467	0	4
STMN1	0	1.988075042	0.994	0.704	0	4
SOX4	0	1.93860149	0.972	0.573	0	4
H3F3A	0	1.811349723	1	0.985	0	4
ELF3	0	1.800630018	0.961	0.546	0	4
AZGP1	0	1.767827053	0.962	0.281	0	4
TUBA1A	0	1.682017557	0.97	0.668	0	4
TUBB2B	0	1.651126151	0.871	0.405	0	4
EPCAM	0	1.609050655	0.983	0.478	0	4
EHF	0	1.607950166	0.934	0.453	0	4
HDAC2	0	1.515309014	0.982	0.551	0	4
PERP	0	1.499395063	0.968	0.518	0	4
RBP1	0	1.464107686	0.923	0.456	0	4
MARCKSL1	0	1.438481432	0.985	0.507	0	4
MDK	0	1.425489913	0.987	0.594	0	4
TUBA1B	0	1.385330414	0.995	0.923	0	4
HMGB3	0	1.244694981	0.873	0.505	0	4
TUBB	0	1.243797257	0.994	0.86	0	4
TPD52L1	0	1.234863415	0.928	0.406	0	4
TPM2	0	1.196527644	0.948	0.459	0	4
DUSP23	0	1.172976788	0.936	0.688	0	4
IFI27	0	1.12045449	1	0.785	0	4
DSP	0	1.107663167	0.872	0.397	0	4
C6orf141	0	1.078453237	0.778	0.391	0	4

HMGA1	0	1.077106361	0.964	0.656	0	4
RP11-65J3.1	0	1.040342995	0.857	0.454	0	4
KYNU	1.57E-302	1.009593468	0.88	0.591	3.15E-299	4
NCOA7	1.23E-259	1.032912734	0.865	0.453	2.47E-256	4
ISG15	1.80E-199	1.028421395	0.984	0.837	3.59E-196	4
GBP1	9.62E-187	1.070857351	0.832	0.638	1.92E-183	4
CKS1B	3.31E-132	1.173517385	0.793	0.597	6.63E-129	4
RARRES1	1.59E-65	1.28428322	0.523	0.397	3.18E-62	4
CENPF	1.08E-48	1.106217075	0.435	0.375	2.16E-45	4
S100A7	9.35E-28	1.370225305	0.439	0.424	1.87E-24	4
MUCL1	1.33E-05	1.304853699	0.327	0.376	0.0265951	4
CCL20	0	2.788200523	0.955	0.407	0	5
KRT19	0	2.629591791	1	0.633	0	5
PAEP	0	2.273784426	0.931	0.196	0	5
KRT7	0	2.175653618	1	0.55	0	5
WFDC2	0	2.127583712	0.993	0.384	0	5
CCND1	0	2.100809505	0.986	0.487	0	5
C19orf33	0	2.029367764	0.97	0.311	0	5
ANGPTL4	0	2.025973041	0.964	0.439	0	5
TNNC2	0	1.855003271	0.97	0.34	0	5
HOPX	0	1.824520952	0.992	0.456	0	5
TFPI	0	1.809534481	0.992	0.503	0	5
IGFBP3	0	1.791020498	0.867	0.263	0	5
KRT8	0	1.764152362	0.995	0.623	0	5
KRT18	0	1.727651267	0.999	0.642	0	5
SPINT2	0	1.667865004	0.996	0.663	0	5
ERRFI1	0	1.655850902	0.986	0.439	0	5
TACSTD2	0	1.642535279	0.986	0.507	0	5
VEGFA	0	1.623127185	0.945	0.533	0	5
RPL37	0	1.585478618	1	0.983	0	5
UBE2C	0	1.536190961	0.978	0.462	0	5
S100A14	0	1.505750722	0.979	0.382	0	5
NDRG1	0	1.504900634	0.938	0.393	0	5
MIF	0	1.440618599	0.989	0.758	0	5
PHLDA2	0	1.42210956	0.985	0.58	0	5
S100A16	0	1.386174899	0.974	0.351	0	5
MGST1	0	1.382735297	0.988	0.599	0	5
BCAM	0	1.380208321	0.962	0.447	0	5
FAM83A	0	1.321686217	0.92	0.214	0	5
SRD5A3	0	1.316491305	0.956	0.541	0	5
SMIM22	0	1.308642114	0.97	0.399	0	5
S100P	0	1.302163176	0.955	0.264	0	5
EPCAM1	0	1.285627406	0.981	0.49	0	5
CLDN4	0	1.211390227	0.974	0.495	0	5
SERINC2	0	1.209647445	0.957	0.544	0	5
GPRC5A	0	1.202115014	0.966	0.395	0	5
ITGA3	0	1.161874395	0.944	0.419	0	5
SNCG	0	1.14490854	0.897	0.296	0	5
PVR	0	1.140168496	0.914	0.438	0	5
OSMR	0	1.130002166	0.945	0.404	0	5
ABCA7	0	1.129428016	0.955	0.252	0	5
PDZK1IP1	0	1.123088198	0.909	0.283	0	5
CPD	0	1.083819349	0.942	0.37	0	5
ASPH	0	1.077812817	0.952	0.483	0	5
CLDN3	0	1.056348792	0.944	0.477	0	5
PRSS8	0	1.042631993	0.936	0.478	0	5
SDC1	0	1.042340269	0.941	0.244	0	5
TGFA	0	1.042208611	0.824	0.196	0	5

PPAP2C	0	1.041330961	0.945	0.505	0	5
MPZL2	0	1.029888662	0.942	0.306	0	5
SCNN1A	0	1.02131596	0.945	0.237	0	5
SRCAP	0	1.009289017	0.951	0.375	0	5
MDK1	5.55E-306	1.277128039	0.977	0.604	1.11E-302	5
C8orf4	4.95E-303	1.344107406	0.975	0.602	9.90E-300	5
SFTA2	7.27E-302	1.134139321	0.951	0.246	1.45E-298	5
SFTPB	1.56E-299	1.013358819	0.974	0.415	3.12E-296	5
WSB1	4.99E-297	1.900770188	0.99	0.661	9.99E-294	5
AGR2	4.84E-291	1.71727213	0.883	0.204	9.69E-288	5
FAM3C	9.17E-287	1.01913908	0.963	0.551	1.83E-283	5
SPINK1	6.37E-286	2.124384277	0.872	0.35	1.27E-282	5
PTGS2	1.07E-285	1.083723346	0.859	0.321	2.13E-282	5
ATP1B1	4.66E-280	1.132897869	0.966	0.557	9.32E-277	5
S100A6	1.40E-271	1.49205174	1	0.985	2.80E-268	5
C15orf481	6.04E-266	1.452568004	0.984	0.623	1.21E-262	5
SPRR2D	3.59E-259	1.084978341	0.705	0.251	7.19E-256	5
SAA1	2.12E-252	1.460213883	0.77	0.198	4.24E-249	5
HMGB31	3.63E-244	1.034109945	0.914	0.511	7.26E-241	5
DDIT4	1.80E-238	1.17108324	0.989	0.746	3.61E-235	5
TNFSF10	6.11E-216	1.033747198	0.942	0.628	1.22E-212	5
LCN2	8.26E-190	1.477721096	0.746	0.32	1.65E-186	5
S100A91	5.28E-187	1.051045289	0.993	0.675	1.06E-183	5
SPRR1B	8.61E-163	1.038405683	0.641	0.311	1.72E-159	5
MS4A1	0	1.668161823	0.881	0.072	0	6
CD79A	0	1.410697428	0.933	0.211	0	6
LTB1	1.01E-272	1.373953223	0.93	0.35	2.02E-269	6
VPREB3	6.46E-231	1.220934983	0.778	0.063	1.29E-227	6
IRF8	2.58E-230	1.135252212	0.868	0.284	5.17E-227	6
CD79B	5.22E-182	1.110806835	0.778	0.167	1.04E-178	6
SFTA21	0	2.549474346	0.99	0.261	0	7
FOLR1	0	1.876588572	0.93	0.187	0	7
AGR3	7.59E-308	2.300070335	0.922	0.157	1.52E-304	7
SFTPD	2.86E-294	2.846965557	0.904	0.156	5.72E-291	7
PEBP4	8.56E-290	1.590373247	0.853	0.069	1.71E-286	7
NAPSA	2.73E-287	2.935545408	0.942	0.288	5.46E-284	7
AQP4	2.77E-277	1.531431135	0.775	0.111	5.54E-274	7
SFTPB1	2.49E-267	3.395145719	0.946	0.43	4.97E-264	7
CLDN18	1.39E-264	1.860744782	0.829	0.234	2.77E-261	7
SFTA3	8.74E-264	1.609610703	0.894	0.289	1.75E-260	7
SLC34A2	1.30E-263	1.949827424	0.884	0.198	2.60E-260	7
CYB5A	3.72E-258	1.887906104	0.968	0.633	7.44E-255	7
HOPX1	3.31E-254	1.84943693	0.974	0.469	6.63E-251	7
FXYD3	2.25E-249	1.772075151	0.916	0.332	4.50E-246	7
RNASE11	1.03E-236	1.634030171	0.992	0.447	2.06E-233	7
ADIRF	2.22E-230	2.291282727	0.904	0.373	4.44E-227	7
AK1	1.70E-229	1.492748019	0.884	0.358	3.41E-226	7
SFTA1P	7.39E-226	1.442808566	0.777	0.14	1.48E-222	7
SLPI	2.44E-225	3.067070627	0.89	0.373	4.88E-222	7
MUC1	2.29E-223	1.880574593	0.839	0.241	4.58E-220	7
SFTPA2	1.48E-220	4.162738743	0.865	0.33	2.97E-217	7
DHCR24	8.44E-217	1.24093179	0.843	0.275	1.69E-213	7
GPRC5A1	3.43E-216	1.959574605	0.878	0.414	6.86E-213	7
SFTPA1	4.30E-215	4.028980971	0.869	0.34	8.61E-212	7
SELENBP1	2.77E-208	1.218085195	0.785	0.173	5.54E-205	7
SLC39A8	4.10E-206	1.467616448	0.851	0.344	8.19E-203	7
SFTPC	5.82E-203	4.987644182	0.9	0.472	1.16E-199	7
LMO7	7.84E-202	1.708019857	0.847	0.409	1.57E-198	7

SEPP1	5.62E-192	1.084338066	0.93	0.557	1.12E-188	7
PGC	7.15E-192	2.094611379	0.733	0.179	1.43E-188	7
KRT181	7.30E-187	1.727331736	0.942	0.654	1.46E-183	7
ID1	3.82E-181	1.411212472	0.847	0.346	7.63E-178	7
SDC4	1.47E-180	1.652174773	0.863	0.562	2.94E-177	7
EMP2	1.04E-177	2.710277083	0.867	0.533	2.08E-174	7
F3	2.93E-177	1.029015218	0.703	0.209	5.86E-174	7
GKN2	1.63E-169	1.105650962	0.669	0.187	3.27E-166	7
CYP4B1	1.55E-167	1.774836392	0.695	0.254	3.10E-164	7
CLIC3	1.59E-165	1.423036213	0.753	0.26	3.18E-162	7
C3	2.98E-165	1.144272984	0.753	0.292	5.96E-162	7
LIMCH1	1.39E-164	1.028697776	0.815	0.416	2.78E-161	7
ABCA3	1.73E-164	1.137900754	0.659	0.097	3.46E-161	7
CXCL17	2.08E-162	1.945894188	0.695	0.142	4.16E-159	7
KRT71	5.75E-159	1.273751331	0.908	0.565	1.15E-155	7
ITGB6	1.43E-158	1.168769066	0.751	0.362	2.86E-155	7
ICAM1	2.17E-156	1.839143822	0.831	0.542	4.35E-153	7
TACSTD21	3.78E-152	1.360094124	0.839	0.527	7.57E-149	7
SFN	2.73E-151	2.270508891	0.807	0.571	5.45E-148	7
WFDC21	1.45E-146	1.250005341	0.873	0.405	2.90E-143	7
TSPAN13	2.24E-146	1.504062792	0.827	0.476	4.49E-143	7
KRT81	2.15E-145	1.630243346	0.871	0.639	4.30E-142	7
C19orf331	3.98E-145	1.080321661	0.783	0.336	7.96E-142	7
MAL2	4.70E-144	1.013173091	0.779	0.435	9.41E-141	7
MALL	1.41E-143	1.050730404	0.667	0.176	2.82E-140	7
LDLR	4.15E-143	1.250456108	0.777	0.471	8.30E-140	7
PTRF	1.52E-141	1.030396503	0.707	0.252	3.04E-138	7
RRAD	5.47E-141	1.231414771	0.624	0.181	1.09E-137	7
SCGB3A2	5.89E-140	3.353477437	0.719	0.263	1.18E-136	7
KRT191	8.70E-140	1.039144794	0.904	0.646	1.74E-136	7
C4BPA	1.93E-137	1.276312291	0.641	0.108	3.85E-134	7
S100A141	3.40E-137	1.04090725	0.799	0.406	6.79E-134	7
SGMS2	1.72E-134	1.209592312	0.729	0.386	3.44E-131	7
ELF31	3.44E-134	1.145197451	0.867	0.571	6.88E-131	7
TM4SF1	1.78E-133	1.473599728	0.823	0.545	3.55E-130	7
DMBT1	4.17E-133	1.160938141	0.55	0.077	8.34E-130	7
IFT57	2.57E-130	1.051339828	0.787	0.476	5.13E-127	7
C16orf89	6.13E-129	1.282917782	0.655	0.193	1.23E-125	7
CXCL2	7.90E-128	2.011754222	0.751	0.357	1.58E-124	7
MGST11	8.39E-128	1.043001773	0.89	0.614	1.68E-124	7
CD9	3.98E-127	1.069786268	0.96	0.706	7.95E-124	7
UPK3B	2.47E-126	1.503083022	0.574	0.191	4.93E-123	7
CEACAM6	4.92E-125	1.527694444	0.633	0.25	9.84E-122	7
TNFRSF12A	2.48E-124	1.506865177	0.801	0.617	4.95E-121	7
CLDN41	8.40E-123	1.356687799	0.813	0.515	1.68E-119	7
ERRFI11	1.06E-118	1.107931978	0.777	0.464	2.12E-115	7
PIGR	2.22E-118	1.339334457	0.586	0.091	4.43E-115	7
CAV2	5.45E-118	1.578020104	0.717	0.4	1.09E-114	7
CLDN7	9.70E-118	1.027436104	0.811	0.588	1.94E-114	7
CYR61	9.79E-118	1.01471018	0.709	0.35	1.96E-114	7
SCEL	4.31E-117	1.010951609	0.554	0.195	8.62E-114	7
RND1	4.97E-116	1.272377185	0.629	0.283	9.95E-113	7
AQP3	6.03E-116	1.348199708	0.735	0.406	1.21E-112	7
CAV1	4.10E-115	2.339808583	0.743	0.439	8.21E-112	7
LRRK2	5.34E-114	1.210979684	0.647	0.23	1.07E-110	7
AGER	3.71E-107	2.973756358	0.703	0.413	7.42E-104	7
MYL9	2.43E-100	1.306194241	0.719	0.42	4.85E-97	7
TNNC1	4.66E-99	1.228304467	0.606	0.291	9.32E-96	7

SCGB3A1	9.58E-90	1.93810421	0.673	0.31	1.92E-86	7
ANXA3	1.23E-88	1.254641742	0.622	0.351	2.47E-85	7
SERPINA11	1.67E-77	1.101771332	0.795	0.528	3.34E-74	7
MT1E	2.50E-77	1.501630209	0.831	0.716	5.01E-74	7
NPC21	3.06E-75	1.164356499	0.876	0.843	6.13E-72	7
LAMP3	1.96E-67	1.118788479	0.606	0.375	3.92E-64	7
C8orf41	1.41E-64	1.128600866	0.745	0.623	2.81E-61	7
SCGB1A1	3.51E-10	1.458853051	0.466	0.409	7.02E-07	7
KLRF1	3.26E-245	1.214599659	0.875	0.071	6.53E-242	8
CPA3	2.63E-110	1.443844535	0.167	0.143	5.26E-107	8
CTSW1	3.73E-105	1.135707472	0.839	0.313	7.46E-102	8
TPSAB1	2.13E-90	3.172785983	0.165	0.223	4.27E-87	8
SPON2	3.61E-49	1.226404199	0.716	0.287	7.21E-46	8
CCL51	1.85E-45	1.114502175	0.744	0.431	3.70E-42	8
NKG71	1.47E-40	1.306992256	0.742	0.403	2.94E-37	8
CCL41	3.64E-40	1.074117245	0.773	0.472	7.28E-37	8
GZMB1	2.93E-39	1.157692377	0.754	0.43	5.85E-36	8
PRF11	5.27E-38	1.493789992	0.625	0.226	1.05E-34	8
GNLY1	9.36E-34	1.353715499	0.718	0.394	1.87E-30	8
CST71	2.52E-22	1.040160799	0.638	0.321	5.03E-19	8
GZMH1	8.06E-08	1.123214282	0.555	0.197	0.0001612	8
ISLR	0	1.156580714	0.638	0.034	0	9
EMILIN1	2.03E-269	1.033341562	0.697	0.046	4.07E-266	9
MFAP4	1.65E-267	2.344765323	0.767	0.121	3.30E-264	9
COL6A1	2.74E-258	1.852798235	0.89	0.187	5.49E-255	9
COL6A2	9.75E-257	2.304718268	0.969	0.134	1.95E-253	9
COL1A2	3.06E-242	3.786713379	0.961	0.215	6.13E-239	9
DCN	3.17E-232	4.150434011	0.961	0.357	6.34E-229	9
CALD1	7.53E-232	2.608404998	0.975	0.301	1.51E-228	9
BGN	5.37E-230	2.864400635	0.935	0.098	1.07E-226	9
COL5A2	1.21E-228	1.672654917	0.798	0.08	2.42E-225	9
C1S	1.13E-223	2.586895392	0.944	0.25	2.26E-220	9
C1R	2.11E-221	2.649682499	0.955	0.308	4.22E-218	9
SPARC	3.94E-219	3.206472294	0.966	0.368	7.89E-216	9
THY1	4.66E-218	2.188888415	0.854	0.091	9.32E-215	9
SPARCL1	3.76E-217	2.095913558	0.952	0.263	7.51E-214	9
LUM	6.55E-214	4.323601062	0.916	0.258	1.31E-210	9
PCOLCE	1.58E-207	2.127979367	0.902	0.277	3.16E-204	9
RARRES2	1.55E-203	3.020485222	0.919	0.358	3.10E-200	9
EFEMP2	1.63E-201	1.303314697	0.803	0.131	3.25E-198	9
MGP	3.89E-198	3.232486906	0.924	0.264	7.78E-195	9
IGFBP7	1.09E-196	2.434905391	0.949	0.312	2.19E-193	9
FSTL1	5.85E-193	1.394205546	0.809	0.173	1.17E-189	9
COL6A3	6.46E-188	2.239935865	0.89	0.39	1.29E-184	9
COL1A1	4.58E-187	3.910593632	0.851	0.214	9.16E-184	9
A2M	1.96E-186	2.513987115	0.933	0.329	3.91E-183	9
NNMT	6.54E-186	2.03754048	0.904	0.241	1.31E-182	9
AEBP1	1.45E-185	1.980849936	0.854	0.268	2.91E-182	9
SERPING11	2.12E-182	1.723720638	0.989	0.646	4.24E-179	9
COL3A1	4.39E-181	3.882051929	0.848	0.279	8.77E-178	9
TAGLN	1.66E-177	3.096398633	0.857	0.27	3.32E-174	9
TIMP1	2.99E-176	2.512303785	0.975	0.732	5.99E-173	9
THBS2	2.27E-174	1.146857323	0.579	0.068	4.53E-171	9
MYL91	2.96E-172	2.185926702	0.902	0.418	5.93E-169	9
COL5A1	1.05E-170	1.28476399	0.677	0.115	2.11E-167	9
MMP2	8.09E-170	2.165597272	0.803	0.24	1.62E-166	9
SFRP2	3.53E-162	3.204917103	0.708	0.1	7.07E-159	9
CCDC80	9.07E-162	2.045239802	0.775	0.254	1.81E-158	9

CFH	1.46E-160	1.398707845	0.742	0.149	2.93E-157	9
MXRA8	1.10E-158	1.350618419	0.739	0.225	2.20E-155	9
TPM21	1.03E-156	1.991517584	0.899	0.491	2.06E-153	9
MFGE8	2.48E-156	1.544735475	0.837	0.335	4.97E-153	9
IFITM3	4.63E-156	1.429825271	0.986	0.813	9.26E-153	9
ACTA2	1.54E-155	2.683352208	0.753	0.154	3.09E-152	9
PLAC9	3.81E-153	1.491303726	0.691	0.091	7.62E-150	9
FKBP10	3.50E-152	1.10783837	0.702	0.124	7.00E-149	9
SFRP4	1.26E-151	2.22281076	0.551	0.104	2.53E-148	9
SULF1	4.35E-150	1.235229896	0.511	0.075	8.70E-147	9
SERPINF1	1.04E-146	2.560152748	0.823	0.399	2.08E-143	9
FN11	2.04E-145	1.906948817	0.952	0.619	4.08E-142	9
FBN1	4.82E-143	1.020259272	0.612	0.13	9.64E-140	9
OLFML3	2.72E-142	1.165480376	0.663	0.141	5.45E-139	9
POSTN	1.30E-138	1.961244396	0.598	0.053	2.60E-135	9
IGFBP4	1.53E-138	1.346779767	0.747	0.173	3.07E-135	9
PDLIM3	4.73E-138	1.227489185	0.736	0.273	9.45E-135	9
CTSK	6.39E-137	1.523243455	0.722	0.234	1.28E-133	9
COL8A1	9.66E-136	1.358905659	0.657	0.144	1.93E-132	9
NBL1	1.71E-133	1.54918465	0.798	0.396	3.42E-130	9
C7	3.43E-133	1.675192776	0.579	0.09	6.87E-130	9
PRELP	5.75E-133	1.460802027	0.652	0.199	1.15E-129	9
PMP22	1.25E-132	1.317676296	0.854	0.351	2.50E-129	9
PPIC	6.46E-131	1.301746187	0.817	0.401	1.29E-127	9
FBLN1	2.79E-130	1.780873566	0.691	0.18	5.59E-127	9
DKK3	2.25E-129	1.157852544	0.694	0.22	4.50E-126	9
FGF7	1.04E-128	1.115380152	0.59	0.102	2.08E-125	9
SERPINH1	1.49E-128	1.474640549	0.846	0.472	2.99E-125	9
CLEC11A	3.34E-128	1.216874316	0.75	0.274	6.67E-125	9
FRZB	8.02E-127	1.020929484	0.556	0.077	1.60E-123	9
ANTXR1	2.82E-125	1.015340526	0.626	0.17	5.64E-122	9
COL4A1	4.60E-121	1.470323154	0.685	0.178	9.20E-118	9
COL4A2	4.98E-121	1.228039491	0.68	0.19	9.97E-118	9
TPM1	3.42E-117	1.610963104	0.815	0.409	6.84E-114	9
CNN3	4.65E-117	1.122782507	0.874	0.534	9.30E-114	9
LGALS11	4.75E-116	1.065746947	0.992	0.908	9.50E-113	9
VCAN	4.32E-115	1.57681163	0.801	0.395	8.64E-112	9
MEG3	9.35E-115	1.081056898	0.624	0.194	1.87E-111	9
MYLK	1.95E-114	1.168045295	0.708	0.312	3.91E-111	9
PRKCDBP	3.08E-110	1.121580944	0.742	0.332	6.17E-107	9
EFEMP1	1.59E-104	1.346564825	0.699	0.31	3.19E-101	9
IGFBP5	3.44E-104	2.100224447	0.579	0.165	6.87E-101	9
ASPN	2.63E-102	1.595661209	0.506	0.134	5.26E-99	9
CRISPLD2	1.17E-99	1.206837941	0.663	0.268	2.35E-96	9
CTHRC1	5.16E-94	2.291997677	0.694	0.368	1.03E-90	9
IGFBP6	1.84E-93	1.924214831	0.618	0.23	3.68E-90	9
ELN	4.94E-92	1.15738892	0.567	0.201	9.88E-89	9
LGALS3BP	1.59E-90	1.016223892	0.893	0.73	3.19E-87	9
RARRES11	6.26E-89	1.481940172	0.716	0.398	1.25E-85	9
ID3	1.64E-87	1.526081469	0.758	0.4	3.28E-84	9
HTRA3	4.80E-87	1.183074638	0.545	0.187	9.60E-84	9
PDGFRB	3.40E-84	1.271596912	0.593	0.206	6.79E-81	9
PTGDS	1.06E-83	2.743448256	0.635	0.307	2.12E-80	9
SEPP11	8.22E-83	1.312751752	0.809	0.567	1.64E-79	9
WISP2	2.56E-82	1.067653164	0.382	0.057	5.11E-79	9
IGF1	7.60E-78	1.570151348	0.559	0.231	1.52E-74	9
LXN	1.31E-76	1.32973515	0.669	0.414	2.62E-73	9
CYP1B1	9.18E-74	1.089605651	0.579	0.246	1.84E-70	9

COL18A1	2.17E-70	1.030465326	0.584	0.256	4.34E-67	9
DPT	1.71E-67	1.088030198	0.537	0.25	3.41E-64	9
SOD3	2.01E-66	1.057822682	0.506	0.164	4.01E-63	9
CST1	3.79E-65	1.074844632	0.202	0.029	7.59E-62	9
GEM	3.21E-63	1.102077303	0.556	0.251	6.41E-60	9
ADH1B	2.47E-62	1.440096937	0.388	0.079	4.94E-59	9
TSC22D1	1.42E-58	1.049434731	0.795	0.622	2.83E-55	9
FMO2	1.69E-56	1.029348585	0.483	0.207	3.38E-53	9
CTGF	5.77E-55	1.719222035	0.522	0.251	1.15E-51	9
CLU	2.22E-53	1.825715771	0.494	0.255	4.44E-50	9
LHFP	4.85E-52	1.205084626	0.607	0.388	9.69E-49	9
EGFL6	1.22E-51	1.302131023	0.455	0.155	2.44E-48	9
CYR611	4.63E-48	1.766687679	0.581	0.36	9.25E-45	9
GPX3	7.70E-48	1.50253822	0.699	0.57	1.54E-44	9
APOD	7.71E-45	1.644170724	0.368	0.134	1.54E-41	9
SPON21	8.70E-44	1.006713988	0.534	0.299	1.74E-40	9
MT2A	5.36E-42	1.204050801	0.935	0.904	1.07E-38	9
PPP1R14A	8.95E-40	1.403676197	0.514	0.301	1.79E-36	9
FHL1	2.28E-39	1.014453641	0.579	0.418	4.57E-36	9
PLA2G2A	1.02E-34	1.891084703	0.374	0.205	2.04E-31	9
GSN	3.68E-34	1.182390376	0.795	0.737	7.36E-31	9
TIMP3	1.47E-32	1.240476449	0.584	0.451	2.93E-29	9
C31	7.05E-32	1.334300021	0.461	0.31	1.41E-28	9
MT1A	7.50E-15	1.27585767	0.275	0.208	1.50E-11	9
RGS5	2.28E-14	2.05499632	0.171	0.384	4.55E-11	9
CFD1	7.36E-12	2.222194886	0.587	0.649	1.47E-08	9
TNFAIP6	4.06E-11	1.272303192	0.419	0.31	8.12E-08	9
IL6	4.74E-06	1.719166653	0.183	0.361	0.0094833	9
NDUFA4L2	0.000107	1.330014148	0.222	0.387	0.2140016	9
RAMP2	8.32E-221	2.526096675	0.987	0.379	1.66E-217	10
CLDN5	2.17E-217	3.024988038	0.978	0.142	4.34E-214	10
ARHGAP29	1.41E-208	1.415685699	0.843	0.17	2.83E-205	10
GNG11	1.45E-207	2.328349496	0.974	0.292	2.89E-204	10
PCDH17	2.99E-206	1.408384709	0.728	0.068	5.98E-203	10
IL33	2.22E-204	1.39583211	0.712	0.086	4.44E-201	10
LDB2	2.10E-187	1.420610904	0.847	0.187	4.20E-184	10
ECSCR	2.91E-186	1.734742744	0.885	0.247	5.83E-183	10
EGFL7	3.30E-183	1.859868019	0.914	0.166	6.60E-180	10
PTPRB	6.45E-178	1.229527034	0.748	0.068	1.29E-174	10
TM4SF11	4.66E-177	2.572348653	0.987	0.545	9.32E-174	10
EMCN	5.01E-176	1.304827777	0.722	0.096	1.00E-172	10
HYAL2	8.69E-175	1.857439741	0.949	0.385	1.74E-171	10
TSPAN7	1.46E-172	1.247715906	0.786	0.084	2.92E-169	10
IGFBP71	2.15E-170	2.761348401	0.942	0.315	4.29E-167	10
CALCRL	3.09E-170	1.625242675	0.859	0.291	6.18E-167	10
CAV11	1.88E-167	1.764193802	0.952	0.438	3.75E-164	10
CLEC14A	2.03E-166	1.903489277	0.805	0.121	4.07E-163	10
EPAS1	1.14E-162	2.060495559	0.942	0.351	2.28E-159	10
IFITM31	7.10E-162	1.575768881	1	0.813	1.42E-158	10
ESAM	1.38E-160	1.450102271	0.802	0.158	2.76E-157	10
SDPR	1.62E-159	1.810025058	0.859	0.271	3.23E-156	10
TCF4	8.49E-156	1.575042855	0.907	0.334	1.70E-152	10
CDH5	1.06E-155	1.216408511	0.821	0.244	2.13E-152	10
AC011526.1	2.49E-155	1.408758206	0.821	0.273	4.98E-152	10
VWF	3.96E-155	1.915337733	0.843	0.223	7.93E-152	10
MGP1	3.11E-154	2.325247588	0.901	0.268	6.21E-151	10
COL4A11	3.20E-150	1.449469107	0.834	0.176	6.39E-147	10
SPARCL11	1.18E-148	2.524485238	0.875	0.269	2.37E-145	10

CRIP2	6.87E-148	1.580432882	0.933	0.569	1.37E-144	10
A2M1	3.72E-146	1.659825626	0.911	0.332	7.45E-143	10
PTRF1	3.22E-144	1.406535886	0.872	0.255	6.43E-141	10
SLCO2A1	1.02E-138	1.208280929	0.709	0.1	2.04E-135	10
S100A161	2.52E-138	1.269298744	0.933	0.379	5.04E-135	10
RAMP3	1.17E-137	1.637199586	0.76	0.073	2.34E-134	10
CALD11	1.25E-133	1.100088479	0.882	0.307	2.51E-130	10
JAM2	7.17E-132	1.130204142	0.703	0.067	1.43E-128	10
AQP1	3.33E-131	1.974442593	0.853	0.362	6.66E-128	10
IGFBP41	6.51E-130	1.271010682	0.818	0.173	1.30E-126	10
TIMP31	3.08E-127	1.754087136	0.875	0.442	6.17E-124	10
SPARC1	1.13E-126	1.439461162	0.895	0.373	2.27E-123	10
C10orf10	5.53E-125	2.702818262	0.872	0.532	1.11E-121	10
TFPI1	5.61E-125	1.543283845	0.917	0.527	1.12E-121	10
CD93	1.12E-124	1.347771928	0.808	0.238	2.24E-121	10
TGM2	1.78E-124	1.27685417	0.879	0.33	3.57E-121	10
HSPG2	3.02E-122	1.457794848	0.773	0.234	6.03E-119	10
PLVAP	1.36E-121	1.838079544	0.767	0.295	2.71E-118	10
ID11	2.02E-120	1.840310607	0.872	0.355	4.05E-117	10
SRPX	3.76E-120	1.117512476	0.703	0.229	7.51E-117	10
S1PR1	1.19E-118	1.155280536	0.757	0.215	2.39E-115	10
SOCS3	1.79E-116	1.934104714	0.949	0.595	3.59E-113	10
NOTCH4	2.79E-116	1.001088794	0.751	0.277	5.58E-113	10
NNMT1	1.74E-114	1.43961922	0.808	0.247	3.49E-111	10
PRSS23	5.25E-114	1.482820054	0.802	0.272	1.05E-110	10
NPDC1	3.77E-112	1.326373056	0.818	0.346	7.54E-109	10
CNN31	1.69E-110	1.434298324	0.891	0.535	3.38E-107	10
SOX17	8.29E-108	1.019741427	0.556	0.05	1.66E-104	10
ELTD1	2.51E-107	1.153185782	0.668	0.071	5.02E-104	10
EDN1	7.21E-106	1.893026492	0.719	0.272	1.44E-102	10
COL4A21	3.09E-105	1.187842131	0.722	0.19	6.18E-102	10
CAV21	2.61E-104	1.214184696	0.821	0.403	5.21E-101	10
EMP1	1.44E-103	2.061686244	0.863	0.579	2.89E-100	10
MTUS1	2.30E-103	1.051572095	0.773	0.368	4.61E-100	10
GJA1	5.14E-101	1.189844822	0.748	0.326	1.03E-97	10
GPX31	2.50E-99	1.907622532	0.84	0.566	4.99E-96	10
NFIB	6.90E-99	1.114500098	0.834	0.502	1.38E-95	10
PODXL	1.07E-95	1.080411515	0.7	0.199	2.13E-92	10
C8orf42	1.22E-94	1.494225912	0.898	0.62	2.44E-91	10
STC1	5.67E-94	1.010207995	0.575	0.12	1.13E-90	10
DUSP6	3.08E-92	1.059748675	0.843	0.379	6.17E-89	10
SLC9A3R2	6.91E-91	1.548244612	0.712	0.231	1.38E-87	10
FAM107A	2.59E-89	1.515044616	0.709	0.284	5.19E-86	10
PPFIBP1	5.52E-88	1.069616136	0.751	0.419	1.10E-84	10
SPRY1	2.54E-86	1.09334853	0.671	0.176	5.09E-83	10
IFI271	4.39E-86	1.24129938	0.971	0.8	8.79E-83	10
GIMAP7	7.80E-85	1.070199107	0.802	0.322	1.56E-81	10
TIMP11	2.01E-84	1.152804207	0.962	0.734	4.02E-81	10
HES1	2.37E-83	1.379447635	0.735	0.334	4.74E-80	10
ID31	3.29E-82	1.660613118	0.805	0.401	6.58E-79	10
AKAP12	2.88E-80	1.899254216	0.626	0.258	5.77E-77	10
GPR116	4.47E-80	1.015835516	0.677	0.188	8.94E-77	10
PPAP2A	2.22E-77	1.061620303	0.709	0.385	4.44E-74	10
RGS51	7.75E-76	1.043774491	0.671	0.367	1.55E-72	10
ADIRF1	3.59E-75	1.435189007	0.757	0.388	7.18E-72	10
DARC	4.22E-71	2.493504711	0.575	0.097	8.45E-68	10
S100A3	1.05E-68	1.03386205	0.575	0.221	2.11E-65	10
FCN3	2.01E-68	2.4636012	0.712	0.391	4.02E-65	10

CYR612	1.27E-64	1.047815548	0.684	0.358	2.53E-61	10
THBD	2.72E-60	1.056966698	0.748	0.472	5.44E-57	10
SOX7	7.07E-59	1.109371408	0.629	0.28	1.41E-55	10
IGFBP31	6.88E-57	1.007637234	0.617	0.297	1.38E-53	10
CTGF1	2.34E-54	1.170379886	0.575	0.251	4.67E-51	10
ENPP2	5.02E-53	1.381676134	0.594	0.319	1.00E-49	10
IL61	1.31E-45	1.902998693	0.588	0.347	2.63E-42	10
TFF3	2.83E-40	1.712052861	0.473	0.232	5.66E-37	10
CLU1	4.05E-40	1.172835935	0.565	0.254	8.10E-37	10
EDNRB	3.62E-39	1.166919865	0.556	0.263	7.24E-36	10
MT2A1	1.47E-38	1.791639864	0.923	0.905	2.94E-35	10
FAM167B	5.33E-38	1.01644408	0.54	0.191	1.07E-34	10
LRRC32	6.53E-38	1.053104419	0.581	0.334	1.31E-34	10
IL1RL1	6.99E-36	1.213829208	0.534	0.3	1.40E-32	10
MT1M	3.56E-35	1.856189544	0.61	0.434	7.11E-32	10
MT1A1	1.06E-31	1.156916005	0.46	0.202	2.12E-28	10
CSF3	4.26E-31	1.602754707	0.498	0.286	8.52E-28	10
SERPINE1	1.57E-26	1.425140872	0.55	0.366	3.14E-23	10
MT1X	1.32E-25	1.727947545	0.696	0.615	2.65E-22	10
CCL21	6.36E-24	3.381782542	0.431	0.224	1.27E-20	10
TMEM100	8.19E-20	1.387455362	0.498	0.284	1.64E-16	10
MT1E1	3.67E-13	1.17039753	0.696	0.723	7.34E-10	10
CCL2	1.47E-05	1.524061803	0.492	0.455	0.0293386	10
MZB1	9.01E-164	3.494433121	0.996	0.257	1.80E-160	11
DERL3	5.78E-163	2.698399389	0.996	0.307	1.16E-159	11
CD79A1	1.65E-151	2.23526608	0.991	0.245	3.30E-148	11
FKBP11	4.88E-151	2.421061888	0.991	0.344	9.76E-148	11
ITM2C	3.67E-146	2.251775567	0.991	0.379	7.34E-143	11
TNFRSF17	4.35E-144	1.398145333	0.894	0.173	8.70E-141	11
SSR4	2.39E-140	2.601371359	1	0.894	4.77E-137	11
IGLL5	1.86E-137	4.859452972	0.982	0.472	3.72E-134	11
IGJ	3.42E-137	4.662749119	0.965	0.427	6.84E-134	11
PRDX4	2.79E-135	1.945525251	0.987	0.554	5.58E-132	11
SEC11C	1.64E-131	1.933384572	0.982	0.593	3.28E-128	11
XBP1	1.52E-129	2.464753976	0.982	0.62	3.05E-126	11
FKBP2	1.23E-128	1.754998347	0.991	0.786	2.46E-125	11
HERPUD1	1.28E-128	2.0511763	0.996	0.72	2.57E-125	11
FCRL5	3.24E-123	1.185965999	0.846	0.19	6.48E-120	11
PIM2	1.93E-121	1.800965241	0.925	0.315	3.85E-118	11
CD27	5.65E-118	1.547329443	0.93	0.31	1.13E-114	11
SPCS3	2.29E-110	1.357737798	0.978	0.665	4.58E-107	11
HSP90B1	3.26E-107	1.500868737	1	0.872	6.52E-104	11
JSRP1	3.08E-104	1.463051067	0.758	0.163	6.15E-101	11
SDF2L1	5.66E-101	1.314993095	0.974	0.65	1.13E-97	11
ERLEC1	2.24E-92	1.169945382	0.934	0.56	4.48E-89	11
MANF	4.78E-92	1.313850642	0.978	0.71	9.57E-89	11
LMAN1	1.01E-87	1.101726379	0.943	0.604	2.02E-84	11
C19orf10	7.24E-84	1.079041626	0.969	0.793	1.45E-80	11
CRELD2	3.27E-75	1.061906092	0.912	0.58	6.53E-72	11
CD38	2.39E-74	1.035192298	0.846	0.497	4.78E-71	11
KIAA0125	4.09E-68	1.17468725	0.656	0.188	8.17E-65	11
AL928768.3	8.97E-44	1.243456689	0.568	0.163	1.79E-40	11
HBD	3.25E-114	2.210915871	0.965	0.035	6.51E-111	12
HBA1	1.26E-103	5.012871998	0.986	0.309	2.51E-100	12
HBA2	4.85E-98	4.731886009	0.986	0.421	9.70E-95	12
HBB	3.83E-97	4.95585502	0.986	0.465	7.67E-94	12
SLC25A37	4.94E-53	1.52911636	0.873	0.394	9.89E-50	12
ALAS2	6.38E-24	1.736233385	0.669	0.012	1.28E-20	12

SNCA	3.42E-07	1.258309372	0.542	0.241	0.0006838	12
HBM	2.61E-06	1.065281392	0.451	0.007	0.0052154	12
LINC01171	2.53E-140	1.501758399	0.907	0.005	5.05E-137	13
EFCAB10	1.69E-137	1.026550544	0.86	0.007	3.39E-134	13
DRC1	7.93E-113	1.008962306	0.837	0.042	1.59E-109	13
DNAH12	2.73E-107	1.053494915	0.837	0.022	5.47E-104	13
DYDC2	4.82E-101	1.218028914	0.884	0.029	9.63E-98	13
RSPH4A	2.18E-100	1.056329741	0.907	0.058	4.35E-97	13
TSPAN19	3.37E-99	1.628176025	0.837	0.025	6.75E-96	13
ANKRD66	2.70E-97	1.10347035	0.767	0.017	5.39E-94	13
DNAH9	7.28E-90	1.224516657	0.907	0.034	1.46E-86	13
ENKUR	2.00E-84	1.27687379	0.837	0.019	4.00E-81	13
C9orf117	1.40E-81	1.277981997	0.86	0.04	2.81E-78	13
FAM81B	6.81E-78	1.110102743	0.814	0.04	1.36E-74	13
FAM216B	1.28E-73	1.274514674	0.884	0.041	2.57E-70	13
SPAG6	1.81E-68	1.389204472	0.907	0.055	3.61E-65	13
WDR38	2.75E-68	1.423072499	0.86	0.017	5.50E-65	13
NME5	1.77E-66	1.337835063	0.907	0.083	3.54E-63	13
C9orf135	6.85E-66	1.334897673	0.837	0.073	1.37E-62	13
ZMYND10	1.70E-64	1.72627803	0.953	0.061	3.41E-61	13
C1orf173	2.51E-64	1.179633788	0.907	0.101	5.01E-61	13
C22orf15	1.22E-63	1.00904162	0.837	0.034	2.43E-60	13
MS4A8	3.12E-62	1.884242318	0.93	0.056	6.23E-59	13
MUC15	3.86E-61	1.00925468	0.837	0.06	7.72E-58	13
C11orf88	9.80E-59	1.979888687	0.93	0.017	1.96E-55	13
DCDC2B	2.57E-58	1.001983055	0.721	0.057	5.15E-55	13
ROPN1L	1.87E-56	1.501194197	0.86	0.041	3.75E-53	13
LRRC46	1.25E-52	1.454413212	0.837	0.066	2.50E-49	13
TEKT1	1.37E-52	1.362914081	0.884	0.018	2.74E-49	13
CCDC170	2.90E-52	1.49586087	0.953	0.135	5.79E-49	13
DYNLRB2	9.44E-52	1.813620862	0.953	0.066	1.89E-48	13
C20orf201	3.01E-51	1.063320887	0.767	0.052	6.02E-48	13
RP11-356K23.1	5.23E-47	2.030030821	0.86	0.078	1.05E-43	13
SPATA18	9.31E-46	1.180073621	0.791	0.077	1.86E-42	13
SNTN	1.25E-43	1.96299572	0.93	0.077	2.51E-40	13
CAPSL	1.52E-43	1.970190518	0.953	0.09	3.03E-40	13
FHAD1	3.14E-43	1.033803765	0.837	0.146	6.29E-40	13
C17orf72	1.94E-42	1.010328219	0.721	0.057	3.87E-39	13
EFCAB1	6.16E-42	1.309360422	0.86	0.09	1.23E-38	13
C20orf85	6.85E-42	3.034567677	1	0.106	1.37E-38	13
C5orf49	1.69E-41	2.029118259	0.953	0.031	3.39E-38	13
RSPH9	3.30E-40	1.495047928	0.837	0.106	6.61E-37	13
OMG	5.07E-40	1.948877	0.907	0.074	1.01E-36	13
MORN5	3.37E-39	1.554325475	0.791	0.02	6.74E-36	13
RSPH1	3.93E-38	2.435717768	1	0.191	7.86E-35	13
CCDC11	4.41E-38	1.428088749	0.907	0.126	8.81E-35	13
C11orf70	5.65E-38	1.093194035	0.791	0.075	1.13E-34	13
TMEM190	1.57E-37	3.532222693	1	0.045	3.13E-34	13
C9orf24	2.86E-37	2.976558302	1	0.221	5.72E-34	13
FAM183A	2.75E-36	2.604417535	1	0.296	5.49E-33	13
PIFO	3.17E-36	2.333267015	1	0.151	6.34E-33	13
C2orf40	1.56E-35	2.318945369	0.953	0.115	3.12E-32	13
C9orf116	3.22E-35	2.161618292	0.977	0.122	6.44E-32	13
C1orf192	1.60E-34	1.703258056	0.907	0.14	3.21E-31	13
FAM92B	5.06E-34	1.761005502	0.907	0.108	1.01E-30	13
STOML3	7.88E-34	1.061031963	0.86	0.18	1.58E-30	13
FAM166B	2.48E-33	1.231199125	0.814	0.06	4.97E-30	13
GSTA2	5.21E-33	1.498001175	0.651	0.106	1.04E-29	13

CAPS	5.33E-33	3.452931144	1	0.294	1.07E-29	13
C1orf194	6.07E-33	2.283323407	0.953	0.119	1.21E-29	13
TPPP3	9.09E-33	3.36321189	1	0.367	1.82E-29	13
DNAH5	8.59E-32	1.398446424	0.907	0.252	1.72E-28	13
CCDC17	1.59E-31	1.324161238	0.86	0.185	3.19E-28	13
AGR31	3.87E-31	2.171071423	1	0.192	7.73E-28	13
CCDC78	7.00E-31	1.783354585	0.907	0.061	1.40E-27	13
FOXJ1	1.08E-30	1.616019177	0.884	0.188	2.15E-27	13
TSPAN1	4.54E-30	2.864005067	0.953	0.156	9.07E-27	13
CCDC153	5.36E-30	1.109330148	0.86	0.221	1.07E-26	13
LRRIQ1	5.98E-30	1.628182308	0.907	0.286	1.20E-26	13
CATSPERD	8.60E-30	1.026480991	0.674	0.028	1.72E-26	13
MORN2	1.01E-29	1.964209723	1	0.483	2.02E-26	13
MNS1	2.15E-29	1.08123777	0.814	0.129	4.30E-26	13
FXYD31	2.92E-29	2.014052761	1	0.359	5.83E-26	13
AC013264.2	5.25E-29	1.513387186	0.93	0.147	1.05E-25	13
DNAAF1	8.37E-29	1.869388006	0.93	0.245	1.67E-25	13
CLU2	9.57E-29	1.733501387	1	0.26	1.91E-25	13
CETN2	7.58E-28	2.149842444	1	0.402	1.52E-24	13
SMIM221	1.02E-27	1.851874531	1	0.438	2.03E-24	13
FAM229B	3.06E-27	1.620322979	0.953	0.319	6.12E-24	13
CDS1	8.58E-27	1.531472269	0.907	0.277	1.72E-23	13
GSTA1	1.50E-26	2.2661795	0.814	0.077	3.01E-23	13
TEKT2	2.25E-26	1.094601354	0.791	0.179	4.49E-23	13
CDHR3	3.47E-26	1.59649145	0.86	0.259	6.94E-23	13
DMKN	4.03E-26	1.30657994	0.953	0.166	8.06E-23	13
CCDC42B	4.41E-26	1.107603977	0.767	0.155	8.82E-23	13
IFT571	1.29E-25	1.444309619	0.977	0.489	2.58E-22	13
RRAD1	2.37E-25	1.262432628	0.86	0.2	4.74E-22	13
CCDC146	2.63E-25	1.459406719	0.907	0.162	5.25E-22	13
LRRC48	6.69E-25	1.309661409	0.86	0.177	1.34E-21	13
PIP	1.04E-24	1.69357613	0.628	0.019	2.08E-21	13
DTHD1	1.83E-24	1.089633591	0.86	0.135	3.66E-21	13
SLC44A4	1.86E-24	1.64035855	0.907	0.35	3.71E-21	13
IGFBP2	2.37E-24	1.490562688	0.884	0.244	4.73E-21	13
KIF9	3.56E-24	1.398514596	0.93	0.404	7.12E-21	13
SLPI1	4.26E-24	2.459240258	0.953	0.397	8.51E-21	13
STK33	4.60E-24	1.06745856	0.791	0.169	9.20E-21	13
CP	5.00E-24	1.202339958	0.814	0.106	1.00E-20	13
TMC5	6.95E-24	1.50560198	0.907	0.321	1.39E-20	13
TFF31	4.13E-23	1.64439795	0.884	0.237	8.25E-20	13
ELF32	6.83E-23	1.42997182	1	0.584	1.37E-19	13
IGFBP72	5.62E-22	1.449531536	0.977	0.331	1.12E-18	13
C12orf75	7.48E-22	1.282704959	0.953	0.443	1.50E-18	13
WFDC22	2.37E-21	1.882286991	0.953	0.426	4.74E-18	13
CKB	1.85E-20	1.362267379	0.93	0.494	3.70E-17	13
TCTEX1D4	3.85E-20	1.02202843	0.721	0.046	7.71E-17	13
CES11	4.16E-20	1.588260528	0.93	0.457	8.31E-17	13
CXCL171	4.89E-20	1.389574474	0.837	0.167	9.77E-17	13
APOD1	5.23E-20	1.162032363	0.767	0.14	1.05E-16	13
CHST9	8.65E-20	1.109424422	0.744	0.221	1.73E-16	13
KIAA1377	4.05E-19	1.124277152	0.791	0.205	8.09E-16	13
PSCA	2.10E-18	1.239852612	0.581	0.062	4.20E-15	13
PIGR1	4.88E-18	1.406378583	0.744	0.113	9.77E-15	13
DNALI1	4.34E-17	1.558781237	0.767	0.169	8.67E-14	13
CYB5A1	3.60E-16	1.114110457	0.93	0.649	7.20E-13	13
SPA17	4.19E-16	1.068527756	0.767	0.262	8.39E-13	13
FABP6	4.78E-16	1.59953869	0.674	0.172	9.57E-13	13

ALDH1A1	7.59E-16	1.147826347	0.837	0.383	1.52E-12	13
AGR21	8.42E-16	1.61124345	0.814	0.251	1.68E-12	13
PLAC8	1.71E-15	1.133780551	0.93	0.37	3.41E-12	13
PPAP2C1	2.90E-15	1.078349016	0.907	0.536	5.81E-12	13
FANK1	4.43E-15	1.010304766	0.698	0.23	8.86E-12	13
BPIFB1	6.49E-15	2.020746675	0.558	0.052	1.30E-11	13
CLDN31	8.12E-14	1.440079248	0.86	0.509	1.62E-10	13
GDF15	2.16E-13	1.527279146	0.698	0.247	4.32E-10	13
GSN1	2.94E-13	1.305209436	0.93	0.738	5.88E-10	13
TACSTD22	2.16E-12	1.031124899	0.86	0.541	4.33E-09	13
LCN21	7.69E-12	1.418704711	0.744	0.349	1.54E-08	13
SRI	2.20E-11	1.107760595	0.93	0.748	4.39E-08	13
NQO1	1.40E-10	1.377541327	0.721	0.435	2.80E-07	13
CTGF2	2.48E-10	1.442003133	0.721	0.259	4.97E-07	13
CYP4B11	3.29E-10	1.10536608	0.698	0.274	6.59E-07	13
CST6	4.89E-10	1.003588856	0.721	0.4	9.78E-07	13
CLDN42	7.44E-08	1.289890182	0.767	0.528	0.0001488	13
SCGB3A11	3.03E-07	3.89643866	0.558	0.327	0.0006061	13
SFTPC1	3.92E-05	1.517339394	0.605	0.493	0.0783343	13
SCGB1A11	6.66E-05	4.226906065	0.605	0.411	0.1332972	13
SAA11	0.00028703	2.194857066	0.465	0.239	0.5740651	13
SAA2	0.00043079	1.883327752	0.395	0.141	0.8615812	13