Table 1: Sample Characteristics

Sample ID	Sample Disease Status	Age	Gender	Core Code	Date Procured	Number of Cells in IPF vs Normal Control Dataset	nUMI in IPF vs Normal Control Dataset	Number of Cells in Normal Only Dataset (V1 + V2)	nUMI in Normal Only Dataset (V1 + V2)	10X Genomics Chemistry
SC14	normal control	76	Male	2016-110-CORE	7/21/16	N/A	N/A	706	4317191	V1
SC31	normal control	56	Male	2016-174-CORE	11/7/16	N/A	N/A	1043	4833562	V1
SC31D	normal control					N/A	N/A	1185	5106812	
SC45	normal control	55	Male	EV2017-001/2017-007-CORE	1/11/17	N/A	N/A	3389	19439465	V2
SC56	normal control	57	Female	2017-025-CORE	2/16/17	4334	23350541	4436	23987800	V2
SC59	normal control	18	Male	2017-029-CORE	3/8/17	3155	26073460	3274	26480182	V2
SC155	normal control, lower lobe	23	Female	2017-105-CORE	10/31/17	4122	30394745	4255	30860302	V2
SC156	normal control, upper lobe					5620	37272812	5932	38105570	
SC87	IPF Lung Lower Lobe	70	Female	2017-064-LT	6/12/17	5651	35754473	N/A	N/A	V2
SC88	IPF Lung Upper Lobe					4717	39847444	N/A	N/A	
SC89	IPF Lung Lower Lobe - Mac depleted					4828	37248650	N/A	N/A	
SC93	IPF Lung Lower Lobe	69	Male	2017-067-LT	6/15/17	3220	27824488	N/A	N/A	V2
SC94	IPF Lung Upper Lobe					2146	28935362	N/A	N/A	
SC95	IPF Lung Lower Lobe - Mac depleted					2700	27767815	N/A	N/A	
SC153	IPF Lung Lower Lobe	69	Female	2017-100-LT	10/24/17	3259	25034857	N/A	N/A	V2
SC154	IPF Lung Upper Lobe					4019	30182560	N/A	N/A	

Table S2. Top 50 most highly upregulated genes in each cluster in healthy control lungs (Figure 1), comparing each cluster with all other clusters (FindAllMarkers function Seurat). P-values as indicated; pct.1=percent of cells expressing the gene in the cluster of interest; pct.2=percent of all other cells expressing the gene of interest (pct refers to the precent of cells expressing at least one transcript (UMI)).

	p_val	avg_logFC	pct.1	pct.2	p_val_adj	cluster	gene
1	0	2.33665717	0.957	0.257	0	0	FABP4
2	0	1.90940431	0.978	0.355	0	0	C1QB
3	0	1.77631765	0.978	0.372	0	0	C1QA
4	0	1.5571591	0.94	0.295	0	0	FBP1
5	0	1.49796948	0.836	0.076	0	0	INHBA
6	0	1.46365823	0.968	0.507	0	0	CD52
7	0	1.45950995	0.94	0.262	0	0	C1QC
8	0	1.35195574	0.82	0.076	0	0	RP11-598F7.3
9	0	1.33340106	0.983	0.409	0	0	APOC1
10	0	1.24187721	0.985	0.682	0	0	CD74
11	0	1.22411928	0.99	0.644	0	0	HLA-DRA
12	0	1.19414495	0.909	0.253	0	0	MCEMP1
13	0	1.17726892	0.937	0.325	0	0	HLA-DQB1
14	0	1.17551735	0.905	0.208	0	0	MSR1
15	0	1.16118796	0.621	0.038	0	0	RBP4
16	0	1.14297359	0.963	0.482	0	0	HLA-DRB1
17	0	1.11624392	0.97	0.472	0	0	ALOX5AP
18	0	1.08705001	0.974	0.505	0	0	HLA-DPA1
19	0	1.07640138	0.94	0.456	0	0	GRN
20	0	1.06150665	0.939	0.367	0	0	CD68
21	0	1.05377587	0.91	0.294	0	0	SERPINA1
22	0	1.04097992	0.558	0.064	0	0	RND3
23	0	1.03765015	0.877	0.221	0	0	TREM1
24	0	1.02524912	0.954	0.334	0	0	ACP5
25	0	1.02435688	0.915	0.278	0	0	VSIG4
26	0	1.02357192	0.391	0.048	0	0	FABP3
27	0	1.01867205	0.752	0.321	0	0	HLA-DRB5
28	0	1.00677019	0.878	0.205	0	0	HLA-DQA1
29	0	0.99444315	0.971	0.59	0	0	LGALS3
30	0	0.99434077	0.805	0.071	0	0	PHLDA3
31	0	0.97754621	0.973	0.489	0	0	HLA-DPB1
32	0	0.96486772	0.903	0.278	0	0	CXCL16
33	0	0.96040351	0.932	0.349	0	0	HLA-DMA
34	0	0.94968674	0.691	0.127	0	0	AKR1C3
35	0	0.94629291	0.913	0.269	0	0	SNX10
36	0	0.94467606	0.918	0.275	0	0	MARCO
37	0	0.94231746	0.9	0.28	0	0	SPI1
38	0	0.92987341	0.955	0.571	0	0	TSPO
39	0	0.92871041	0.786	0.119	0	0	LPL
40	0	0.91886764	0.708	0.132	0	0	MIR3945HG
41	0	0.90965573	1	0.994	0	0	FTL
42	0	0.89873985	0.942	0.346	0	0	GCHFR
43	0	0.88918251	0.858	0.196	0	0	CYP27A1
44	0	0.88800443	0.981	0.543	0	0	TYROBP

45	0	0.88609206	0.906	0.35	0	0	ALDH2
46	0	0.87771027	0.907	0.376	0	0	LY6E
47	0	0.87460803	0.921	0.356	0	0	CAPG
48	0	0.87323239	0.626	0.116	0	0	CES1
49	0	0.85871054	0.941	0.414	0	0	CTSC
50	0	0.85462038	0.982	0.632	0	0	CSTB
51	0	1.74821117	0.721	0.356	0	1	APOE
52	0	1.54912662	0.598	0.288	0	1	CCL18
53	0	1.50260004	0.499	0.172	0	1	HMOX1
54	0	1.28694002	0.952	0.5	0	1	CTSB
55	0	1.2793309	0.87	0.419	0	1	CTSL
56	0	1.24028463	0.976	0.588	0	1	CTSD
57	0	1.10806518	0.567	0.249	0	1	CCL20
58	0	1.04871613	1	0.994	0	1	FTL
59	0	1.01922916	0.976	0.66	0	1	LGALS1
60	0	1.01401639	0.763	0.303	0	1	GPNMB
61	0	0.96579775	0.796	0.334	0	1	CD163
62	0	0.93580209	0.893	0.493	0	1	AP2S1
63	0	0.93232039	0.794	0.332	0	1	MRC1
64	0	0.93106208	0.767	0.319	0	1	MARCO
65	0	0.92552422	0.965	0.628	0	1	GPX1
66	0	0.90916411	0.72	0.328	0	1	CTSZ
67	0	0.90418895	0.739	0.318	0	1	OLR1
68	0	0.88687599	0.833	0.452	0	1	APOC1
69	0	0.87349625	0.759	0.398	0	1	GCHFR
70	0	0.86431263	0.37	0.128	0	1	AGRP
71	0	0.86007864	0.833	0.37	0	1	ACP5
72	0	0.84249672	0.963	0.639	0	1	CSTB
73	0	0.83928962	0.96	0.609	0	1	PSAP
74	0	0.8127535	0.439	0.161	0	1	KCNMA1
75	0	0.80807218	0.841	0.472	0	1	H2AFY
76	0	0.80480595	0.786	0.446	0	1	CXCL3
77	0	0.78848878	0.941	0.602	0	1	GLUL
78	0	0.7842532	0.712	0.363	0	1	BLVRB
79	0	0.78197023	0.886	0.552	0	1	EMP3
80	0	0.77311053	0.573	0.203	0	1	MS4A6A
81	0	0.75041875	0.906	0.555	0	1	ATP6V1F
82	0	0.74980721	0.634	0.278	0	1	MS4A4A
83	0	0.72510249	0.868	0.513	0	1	PLIN2
84	0	0.72420475	0.383	0.139	0	1	LGMN
85	0	0.72368336	0.646	0.287	0	1	MMP19
86	0	0.72150215	0.847	0.381	0	1	MS4A7
87	0	0.71872521	0.259	0.034	0	1	TMIGD3
88	0	0.70846813	0.952	0.645	0	1	GPX4
89	0	0.70597207	0.881	0.555	0	1	ATP6V0B
90	0	0.7001531	0.532	0.186	0	1	RNASE1
91	0	0.69513826	0.713	0.357	0	1	THBD
92	0	0.69365968	0.365	0.066	0	1	PLA2G7
93	0	0.68252383	0.844	0.395	0	1	CD68
94	0	0.67989046	0.39	0.078	0	1	FPR3

95	0	0.67846503	0.949	0.734	0	1	CD63
96	0	0.67827858	0.96	0.53	0	1	FCER1G
97	0	0.65887172	0.721	0.333	0	1	VSIG4
98	0	0.65681503	0.589	0.276	0	1	ALCAM
99	0	0.65661206	0.629	0.285	0	1	LINC01272
100	4.47E-277	0.8339406	0.47	0.245	1.51E-272	1	RETN
101	0	1.91208001	0.716	0.241	0	2	RGS1
102	0	1.88562707	0.934	0.399	0	2	CXCR4
103	0	1.82418461	0.906	0.573	0	2	ZFP36L2
104	0	1.63769818	0.661	0.296	0	2	IL7R
105	0	1.62987799	0.505	0.029	0	2	TRAC
106	0	1.60902407	0.915	0.646	0	2	TSC22D3
107	0	1.57710168	0.512	0.043	0	2	CD2
108	0	1.56436389	0.568	0.054	0	2	CD3D
109	0	1.5387524	0.38	0.017	0	2	GPR171
110	0	1.51777622	0.667	0.137	0	2	CD69
111	0	1.34089129	0.319	0.055	0	2	KLRB1
112	0	1.29844745	0.316	0.058	0	2	BATF
113	0	1.29665612	0.388	0.038	0	2	TRBC2
114	0	1.27548006	0.962	0.822	0	2	BTG1
115	0	1.27393843	0.47	0.089	0	2	CCL5
116	0	1.26659412	0.606	0.388	0	2	LEPROTL1
117	0	1.24794509	0.27	0.047	0	2	LTB
118	0	1.24452646	0.875	0.702	0	2	SARAF
119	0	1.23102191	0.35	0.04	0	2	TRBC1
120	0	1.22187198	0.6	0.34	0	2	CYTIP
121	0	1.21452397	0.297	0.007	0	2	TRAT1
122	0	1.19489539	0.302	0.021	0	2	CD96
123	0	1.18990095	0.573	0.142	0	2	IL32
124	0	1.15695361	0.631	0.424	0	2	PTPRC
125	0	1.15518654	0.381	0.093	0	2	RORA
126	0	1.14801964	0.343	0.059	0	2	CLEC2D
127	0	1.14201261	0.375	0.13	0	2	RP11-138A9.1
128	0	1.14019213	0.407	0.096	0	2	TUBA4A
129	0	1.11235845	0.294	0.068	0	2	RP11-138A9.2
130	0	1.10649967	0.6	0.208	0	2	ISG20
131	0	1.08612499	0.351	0.023	0	2	CD3E
132	0	1.08349224	0.432	0.112	0	2	SYTL3
133	0	1.04734257	0.691	0.481	0	2	CREM
134	0	1.03452303	0.659	0.387	0	2	DDIT4
135	0	1.0267809	0.346	0.101	0	2	PRDM1
136	0	1.0227563	0.369	0.121	0	2	CNOT6L
137	0	1.00245802	0.345	0.035	0	2	SPOCK2
138	0	0.99211577	0.37	0.115	0	2	PIK3IP1
139	0	0.99207283	0.363	0.11	0	2	FKBP11
140	0	0.97027438	0.323	0.055	0	2	ACAP1
141	0	0.96797073	0.353	0.091	0	2	FYN
142	1.29E-306	1.06945603	0.404	0.151	4.33E-302	2	RHOH
143	6.04E-299	1.0700146	0.431	0.177	2.04E-294	2	SOCS1
144	3.92E-274	1.11765483	0.475	0.237	1.32E-269	2	STK4

145	3.01E-208	1.25881811	0.591	0.445	1.01E-203	2	HMGB2
146	6.19E-196	1.04480617	0.362	0.171	2.09E-191	2	AIM1
147	3.02E-191	1.00404937	0.499	0.324	1.02E-186	2	PPP2R5C
148	3.10E-117	0.98289939	0.402	0.237	1.05E-112	2	CCL4
149	6.53E-100	0.99075555	0.36	0.237	2.20E-95	2	TOB1
150	1.46E-52	1.03300998	0.377	0.33	4.94E-48	2	ANKRD28
151	0	3.01860626	0.815	0.288	0	3	S100A8
152	0	2.77642125	0.903	0.489	0	3	S100A9
153	0	2.22297536	0.418	0.034	0	3	SERPINB2
154	0	2.20653382	0.891	0.372	0	3	THBS1
155	0	2.1081079	0.404	0.019	0	3	S100A12
156	0	2.0405544	0.694	0.283	0	3	IL1B
157	0	2.00208547	0.78	0.202	0	3	EREG
158	0	1.99391901	0.685	0.076	0	3	FCN1
159	0	1.9588284	0.645	0.172	0	3	G0S2
160	0	1.77349969	0.657	0.184	0	3	VCAN
161	0	1.6579192	0.937	0.53	0	3	TIMP1
162	0	1.59125489	0.926	0.591	0	3	NAMPT
163	0	1.58126849	0.899	0.5	0	3	PLAUR
164	0	1.50311812	0.608	0.071	0	3	CD300E
165	0	1.48808149	0.621	0.278	0	3	RP11-1143G9.4
166	0	1.39131682	0.434	0.055	0	3	IL1R2
167	0	1.33159543	0.882	0.47	0	3	AIF1
168	0	1.30911215	0.765	0.364	0	3	C5AR1
169	0	1.30298648	0.797	0.41	0	3	LST1
170	0	1.30266388	0.562	0.237	0	3	PPIF
171	0	1.24681978	0.641	0.243	0	3	CD14
172	0	1.20811785	0.898	0.605	0	3	SOD2
173	0	1.19229468	0.431	0.047	0	3	CTB-61M7.2
174	0	1.16717891	0.477	0.076	0	3	FGL2
175	0	1.14094951	0.996	0.851	0	3	SAT1
176	0	1.13499883	0.828	0.446	0	3	SAMSN1
177	0	1.13408819	0.431	0.081	0	3	NLRP3
178	0	1.13240025	0.454	0.045	0	3	CFP
179	0	1.1276619	0.483	0.178	0	3	FPR2
180	0	1.11588148	0.557	0.207	0	3	FPR1
181	0	1.11057338	0.836	0.5	0	3	AREG
182	0	1.08314116	0.687	0.312	0	3	RGS2
183	0	1.07275531	0.521	0.188	0	3	BASP1
184	0	1.06860455	0.608	0.244	0	3	MXD1
185	0	1.06463331	0.853	0.533	0	3	TYMP
186	0	1.06416342	0.903	0.528	0	3	LYZ
187	0	1.05626318	0.703	0.378	0	3	SLC2A3
188	0	1.05368909	0.824	0.531	0	3	COTL1
189	0	1.03914374	0.978	0.786	0	3	SRGN
190	0	1.01346759	0.811	0.584	0	3	ATP1B3
191	0	0.99271821	0.426	0.08	0	3	CD93
192	0	0.94846618	0.482	0.108	0	3	SERPINB9
193	0	0.94757	0.953	0.589	0	3	FCER1G
194	0	0.91845834	0.597	0.237	0	3	GPR183

195	5.01E-257	0.91837664	0.643	0.404	1.69E-252	3	RILPL2
196	1.52E-215	1.38752247	0.643	0.382	5.11E-211	3	CXCL8
197	4.89E-209	0.96762595	0.534	0.282	1.65E-204	3	INSIG1
198	3.47E-181	1.13027531	0.577	0.363	1.17E-176	3	BCL2A1
199	1.73E-140	0.90841638	0.261	0.094	5.84E-136	3	PTGS2
200	1.16E-45	1.21344605	0.324	0.224	3.91E-41	3	C15orf48
201	0	3.12378934	0.795	0.058	0	4	CLDN5
202	0	2.89051331	0.411	0.028	0	4	FCN3
203	0	2.87962721	0.401	0.018	0	4	ACKR1
204	0	2.81300746	0.712	0.073	0	4	SPARCL1
205	0	2.73179189	0.683	0.132	0	4	MT1M
206	0	2.69608887	0.738	0.123	0	4	TM4SF1
207	0	2.51836055	0.452	0.084	0	4	IL6
208	0	2.50491838	0.464	0.071	0	4	MT1A
209	0	2.42928233	0.551	0.018	0	4	VWF
210	0	2.41324641	0.873	0.192	0	4	IFI27
211	0	2.38632547	0.736	0.255	0	4	EPAS1
212	0	2.19202864	0.353	0.027	0	4	CSF3
213	0	2.18173408	0.602	0.205	0	4	CCL2
214	0	2.17622103	0.672	0.091	0	4	TIMP3
215	0	2.16515325	0.631	0.264	0	4	EMP1
216	0	2.15678443	0.728	0.347	0	4	MT1X
217	0	1.94802202	0.858	0.478	0	4	IFITM3
218	0	1.92791967	0.275	0.042	0	4	SERPINE1
219	0	1.91894696	0.744	0.466	0	4	SOCS3
220	0	1.91304135	0.517	0.045	0	4	AQP1
221	0	1.91203751	0.946	0.706	0	4	MT2A
222	0	1.89816535	0.478	0.012	0	4	FAM107A
223	0	1.86661683	0.686	0.314	0	4	PDLIM1
224	0	1.86193261	0.301	0.018	0	4	TMEM100
225	0	1.85574725	0.52	0.081	0	4	HYAL2
226	0	1.81374239	0.293	0.046	0	4	C10orf10
227	0	1.80827556	0.482	0.023	0	4	RAMP2
228	0	1.76456576	0.589	0.216	0	4	ICAM1
229	0	1.75374089	0.405	0.025	0	4	SRPX
230	0	1.71842047	0.569	0.263	0	4	TSC22D1
231	0	1.71674169	0.441	0.006	0	4	CLEC14A
232	0	1.70451168	0.594	0.264	0	4	PECAM1
233	0	1.70030845	0.444	0.085	0	4	EGFL7
234	0	1.70012289	0.545	0.083	0	4	GNG11
235	0	1.69525735	0.66	0.29	0	4	GPX3
236	0	1.68560573	0.581	0.209	0	4	IGFBP7
237	0	1.67716393	0.374	0.012	0	4	RAMP3
238	0	1.66757398	0.554	0.149	0	4	TFPI
239	0	1.62643141	0.459	0.062	0	4	SDPR
240	0	1.62181306	0.418	0.046	0	4	PRSS23
241	0	1.6072625	0.715	0.488	0	4	CD59
242	0	1.60538196	0.401	0.089	0	4	TNFSF10
243	0	1.58786036	0.434	0.024	0	4	PCAT19
244	0	1.58345172	0.513	0.134	0	4	MGP

245	0	1.57559714	0.593	0.098	0	4	CAV1
246	0	1.56492831	0.438	0.099	0	4	SPARC
247	0	1.55928146	0.374	0.059	0	4	SLC9A3R2
248	1.72E-294	1.66615272	0.589	0.283	5.78E-290	4	MT1E
249	2.44E-279	1.65315503	0.364	0.103	8.22E-275	4	CLU
250	9.84E-220	1.56522585	0.403	0.152	3.31E-215	4	HES1
251	0	3.49027951	0.832	0.03	0	5	GNLY
252	0	2.98774989	0.942	0.085	0	5	NKG7
253	0	2.80095119	0.871	0.047	0	5	GZMB
254	0	2.77411266	0.902	0.202	0	5	CCL4
255	0	2.44047866	0.761	0.023	0	5	KLRD1
256	0	2.39307956	0.746	0.025	0	5	PRF1
257	0	2.35207413	0.81	0.076	0	5	CCL5
258	0	2.21335576	0.826	0.074	0	5	CST7
259	0	2.18714965	0.752	0.067	0	5	CD7
260	0	2.16244557	0.559	0.005	0	5	FGFBP2
261	0	1.95617216	0.62	0.086	0	5	CTSW
262	0	1.89418923	0.636	0.037	0	5	GZMA
263	0	1.88085393	0.504	0.018	0	5	GZMH
264	0	1.86998193	0.505	0.05	0	5	KLRB1
265	0	1.70117625	0.772	0.268	0	5	DUSP2
266	0	1.651024	0.483	0.04	0	5	SPON2
267	0	1.63012528	0.382	0.006	0	5	KLRF1
268	0	1.58065194	0.478	0.028	0	5	CD247
269	0	1.53587679	0.586	0.113	0	5	SYTL3
270	0	1.5144061	0.913	0.422	0	5	CXCR4
271	0	1.38962337	0.699	0.216	0	5	ISG20
272	0	1.38209358	0.418	0.023	0	5	GZMM
273	0	1.22711331	0.375	0.05	0	5	TRBC1
274	0	1.19315578	0.639	0.16	0	5	CD69
275	0	1.13723207	0.303	0.023	0	5	SH2D2A
276	0	1.13086277	0.724	0.392	0	5	DDIT4
277	0	1.07852987	0.254	0.003	0	5	S1PR5
278	0	1.06267994	0.263	0.014	0	5	PYHIN1
279	0	1.05376356	0.333	0.042	0	5	LCK
280	0	1.04221511	0.341	0.055	0	5	TRBC2
281	0	1.04083862	0.383	0.099	0	5	FYN
282	0	1.03283936	0.844	0.591	0	5	ZFP36L2
283	0	0.98901949	0.253	0.013	0	5	SLA2
284	0	0.98196337	0.298	0.057	0	5	PTPN7
285	6.20E-304	1.13284789	0.365	0.091	2.09E-299	5	CD3D
286	8.39E-293	1.07953043	0.334	0.084	2.83E-288	5	AKNA
287	6.03E-287	1.05257156	0.332	0.084	2.03E-282	5	LIMD2
288	1.56E-272	1.10823589	0.731	0.487	5.25E-268	5	CREM
289	1.19E-259	1.16984517	0.389	0.127	4.00E-255	5	PIK3R1
290	2.43E-259	1.06060678	0.519	0.22	8.19E-255	5	CORO1A
291	2.20E-243	1.12593578	0.712	0.515	7.43E-239	5	ID2
292	1.07E-240	1.88468635	0.451	0.173	3.60E-236	5	CCL3
293	1.96E-226	1.04520727	0.642	0.431	6.62E-222	5	PTPRC
294	1.55E-209	1.67838534	0.297	0.086	5.21E-205	5	CCL4L2

295	1.41E-205	1.15301103	0.387	0.156	4.74E-201	5	BIN2
296	2.93E-205	0.99292484	0.416	0.168	9.89E-201	5	PLAC8
297	2.08E-197	0.99665779	0.598	0.388	7.01E-193	5	HCST
298	2.79E-197	1.10722888	0.546	0.327	9.41E-193	5	PPP2R5C
299	8.67E-135	1.00928644	0.316	0.137	2.92E-130	5	CHST12
300	5.93E-105	1.64294632	0.398	0.255	2.00E-100	5	CMC1
301	0	5.3787571	0.975	0.332	0	6	SFTPC
302	0	4.4719722	0.97	0.089	0	6	SFTPA1
303	0	4.41902793	0.951	0.087	0	6	SFTPA2
304	0	3.69481056	0.984	0.12	0	6	SFTPB
305	0	3.13308253	0.93	0.043	0	6	NAPSA
306	0	2.88606908	0.785	0.016	0	6	PGC
307	0	2.70256045	0.883	0.022	0	6	SFTPD
308	0	2.6102569	0.956	0.159	0	6	SLPI
309	0	2.42313643	0.896	0.05	0	6	SFTA2
310	0	2.18596524	0.803	0.029	0	6	SLC34A2
311	0	1.89386943	0.936	0.455	0	6	CYB5A
312	0	1.85014496	0.808	0.03	0	6	SFTA3
313	0	1.82907147	0.778	0.024	0	6	S100A14
314	0	1.78194073	0.784	0.037	0	6	MUC1
315	0	1.71393218	0.768	0.029	0	6	CXCL17
316	0	1.68191172	0.855	0.163	0	6	HOPX
317	0	1.60666179	0.697	0.03	0	6	PIGR
318	0	1.59656049	0.977	0.689	0	6	NPC2
319	0	1.55723308	0.674	0.021	0	6	PEBP4
320	0	1.54964167	0.856	0.345	0	6	MGST1
321	0	1.5417714	0.778	0.102	0	6	KRT18
322	0	1.53004965	0.656	0.071	0	6	C8orf4
323	0	1.50124655	0.806	0.383	0	6	CTSH
324	0	1.47372807	0.683	0.014	0	6	ABCA3
325	0	1.46885755	0.702	0.008	0	6	LAMP3
326	0	1.42095868	0.729	0.105	0	6	AK1
327	0	1.39186311	0.666	0.034	0	6	LRRK2
328	0	1.35052996	0.673	0.017	0	6	SDR16C5
329	0	1.30706987	0.74	0.256	0	6	AQP3
330	0	1.28952661	0.628	0.05	0	6	C11orf96
331	0	1.27550346	0.53	0.008	0	6	SLC6A14
332	0	1.256609	0.732	0.284	0	6	SDC4
333	0	1.23616995	0.78	0.121	0	6	SEPP1
334	0	1.20650481	0.641	0.018	0	6	C16orf89
335	0	1.19818467	0.549	0.013	0	6	WIF1
336	0	1.19051403	0.698	0.078	0	6	KRT8
337	0	1.18893924	0.689	0.05	0	6	ELF3
338	0	1.18877502	0.744	0.221	0	6	SPTSSA
339	0	1.18539543	0.696	0.098	0	6	LPCAT1
340	0	1.16965548	0.575	0.012	0	6	GKN2
341	0	1.15861219	0.636	0.021	0	6	MALL
342	0	1.13325525	0.623	0.043	0	6	AGR2
343	0	1.12651915	0.628	0.157	0	6	ERRFI1
344	0	1.12545702	0.619	0.031	0	6	SELENBP1

345	0	1.07459559	0.521	0.005	0	6	PLA2G1B
346	0	1.07036684	0.642	0.066	0	6	DHCR24
347	0	1.05543327	0.703	0.065	0	6	KRT19
348	0	1.05234162	0.612	0.092	0	6	MBIP
349	0	1.04054267	0.544	0.005	0	6	C4BPA
350	5.00E-177	1.10477542	0.785	0.492	1.68E-172	6	CXCL2
351	0	4.12146204	0.866	0.074	0	7	DCN
352	0	3.21167359	0.651	0.019	0	7	LUM
353	0	3.049927	0.668	0.018	0	7	FBLN1
354	0	2.84094745	0.881	0.139	0	7	MGP
355	0	2.70287399	0.462	0.024	0	7	IGFBP6
356	0	2.61573163	0.614	0.081	0	7	CYR61
357	0	2.53770459	0.71	0.044	0	7	C1R
358	0	2.53006769	0.661	0.02	0	7	ADH1B
359	0	2.46036557	0.318	0.03	0	7	PTX3
360	0	2.44157229	0.618	0.127	0	7	A2M
361	0	2.40683546	0.663	0.029	0	7	C1S
362	0	2.35616506	0.494	0.038	0	7	TPM2
363	0	2.3054921	0.394	0.028	0	7	APOD
364	0	2.18741939	0.833	0.301	0	7	GPX3
365	0	2.15873058	0.636	0.04	0	7	RARRES2
366	0	2.14045237	0.506	0.056	0	7	CTGF
367	0	2.1204849	0.465	0.088	0	7	SERPINF1
368	0	2.11253413	0.601	0.012	0	7	MFAP4
369	0	2.09868608	0.491	0.076	0	7	MYL9
370	0	2.04148441	0.693	0.064	0	7	CALD1
371	0	2.02715787	0.506	0.021	0	7	CRYAB
372	0	2.01874376	0.512	0.007	0	7	COL1A2
373	0	2.00798138	0.564	0.011	0	7	PRELP
374	0	1.99772531	0.349	0.034	0	7	RARRES1
375	0	1.94983561	0.612	0.02	0	7	COL6A2
376	0	1.91716865	0.552	0.06	0	7	C11orf96
377	0	1.91534277	0.743	0.276	0	7	SERPING1
378	0	1.89165769	0.651	0.177	0	7	NNMT
379	0	1.83635305	0.647	0.134	0	7	SEPP1
380	0	1.79016364	0.412	0.032	0	7	PPP1R14A
381	0	1.76158002	0.373	0.027	0	7	IGFBP5
382	0	1.73204971	0.519	0.015	0	7	CRISPLD2
383	0	1.70155469	0.41	0.011	0	7	TCF21
384	0	1.67070681	0.682	0.118	0	7	TIMP3
385	0	1.65224106	0.318	0.019	0	7	CCDC80
386	0	1.64207961	0.408	0.024	0	7	C7
387	0	1.63935185	0.434	0.042	0	7	GEM
388	0	1.63238268	0.416	0.041	0	7	LMCD1
389	0	1.61458029	0.775	0.101	0	7	SPARCL1
390	0	1.61383678	0.516	0.02	0	7	COL6A1
391	0	1.59900623	0.37	0.004	0	7	WISP2
392	3.06E-306	1.84476417	0.712	0.222	1.03E-301	7	IGFBP7
393	2.43E-288	1.59334614	0.367	0.055	8.18E-284	7	C10orf10
394	1.08E-253	2.43796585	0.344	0.057	3.65E-249	7	ACTA2

395	2.18E-205	2.68389489	0.698	0.389	7.36E-201	7	CFD
396	1.46E-194	2.84853248	0.459	0.132	4.90E-190	7	TAGLN
397	5.84E-185	1.60210253	0.602	0.223	1.97E-180	7	CCL2
398	4.75E-157	1.61572566	0.819	0.557	1.60E-152	7	TIMP1
399	4.34E-142	1.67633219	0.724	0.483	1.46E-137	7	GADD45B
400	9.22E-98	1.61391557	0.606	0.386	3.11E-93	7	IER3
401	0	3.75518375	0.796	0.04	0	8	AGER
402	0	3.4827253	0.799	0.144	0	8	EMP2
403	0	3.15092784	0.855	0.178	0	8	HOPX
404	0	3.08166215	0.731	0.071	0	8	KRT7
405	0	2.82269576	0.57	0.027	0	8	CEACAM6
406	0	2.63317832	0.646	0.081	0	8	KRT19
407	0	2.55662643	0.696	0.123	0	8	CAV1
408	0	2.24612005	0.53	0.07	0	8	TSPAN13
409	0	2.22986345	0.631	0.075	0	8	SFTA2
410	0	2.18903582	0.473	0.071	0	8	GPRC5A
411	0	2.08074181	0.537	0.079	0	8	MYL9
412	0	2.0792222	0.493	0.074	0	8	FXYD3
413	0	2.02465748	0.45	0.051	0	8	CLIC3
414	0	1.96916248	0.417	0.047	0	8	ANXA3
415	0	1.88700617	0.357	0.014	0	8	TNNC1
416	0	1.82113652	0.337	0.01	0	8	GGTLC1
417	0	1.76238125	0.277	0.006	0	8	NTM
418	0	1.66765458	0.334	0.03	0	8	CLDN18
419	0	1.48083398	0.266	0.011	0	8	MSLN
420	0	1.47605851	0.292	0.007	0	8	SCEL
421	5.77E-305	1.87645211	0.424	0.057	1.94E-300	8	CYP4B1
422	4.78E-300	1.70081111	0.347	0.038	1.61E-295	8	C19orf33
423	3.98E-293	2.04848811	0.483	0.08	1.34E-288	8	TACSTD2
424	5.69E-291	1.9422626	0.43	0.063	1.92E-286	8	LMO7
425	9.25E-268	1.43191413	0.468	0.073	3.12E-263	8	NAPSA
426	3.83E-266	1.47786337	0.276	0.026	1.29E-261	8	AQP4
427	1.73E-260	2.03205913	0.601	0.144	5.83E-256	8	ADIRF
428	5.88E-249	1.83417557	0.444	0.077	1.98E-244	8	CAV2
429	8.29E-239	1.83329916	0.394	0.063	2.79E-234	8	EPCAM
430	1.30E-225	1.5157202	0.603	0.149	4.38E-221	8	SFTPB
431	1.05E-205	1.53440566	0.287	0.037	3.55E-201	8	SFTA1P
432	1.35E-205	1.50109461	0.274	0.034	4.54E-201	8	CST6
433	7.56E-194	1.45339767	0.439	0.09	2.55E-189	8	WFDC2
434	2.37E-188	1.2623904	0.252	0.031	7.99E-184	8	ANKRD29
435	1.34E-176	1.66536052	0.432	0.098	4.51E-172	8	KRT8
436	7.47E-166	1.78094609	0.47	0.125	2.52E-161	8	KRT18
437	9.04E-166	1.85974012	0.636	0.25	3.05E-161	8	RNASE1
438	1.50E-156	1.78341601	0.375	0.084	5.05E-152	8	FOLR1
439	4.61E-156	1.32381026	0.279	0.045	1.55E-151	8	PEBP4
440	1.83E-147	1.26872045	0.256	0.04	6.18E-143	8	NKX2-1
441	6.41E-121	1.38255983	0.294	0.063	2.16E-116	8	LIMCH1
442	8.67E-108	1.78851793	0.696	0.529	2.92E-103	8	DSTN
443	7.79E-101	1.32562523	0.286	0.069	2.63E-96	8	NEDD4L
444	1.58E-97	1.54169038	0.36	0.112	5.31E-93	8	SLC39A8

445	7.31E-51	1.59684476	0.58	0.507	2.46E-46	8	CD55
446	1.65E-48	1.43533002	0.39	0.206	5.56E-44	8	NGFRAP1
447	5.51E-42	1.38942104	0.344	0.175	1.86E-37	8	TNFRSF12A
448	1.12E-36	1.4977114	0.455	0.336	3.77E-32	8	CD151
449	2.51E-24	1.26801245	0.309	0.186	8.47E-20	8	RARRES3
450	3.33E-13	1.24850267	0.372	0.335	1.12E-08	8	RAB11FIP1
451	0	3.7746035	0.926	0.044	0	9	TPPP3
452	0	3.71620008	0.944	0.026	0	9	CAPS
453	0	3.12243728	0.86	0.014	0	9	C9orf24
454	0	3.07672093	0.845	0.01	0	9	C20orf85
455	0	3.05270729	0.841	0.008	0	9	TMEM190
456	0	2.83333406	0.878	0.008	0	9	RSPH1
457	0	2.73461512	0.823	0.018	0	9	TSPAN1
458	0	2.71548772	0.833	0.006	0	9	FAM183A
459	0	2.68731942	0.814	0.055	0	9	AGR3
460	0	2.65960641	0.826	0.008	0	9	C1orf194
461	0	2.55738974	0.826	0.06	0	9	ELF3
462	0	2.55161477	0.846	0.162	0	9	CETN2
463	0	2.36621908	0.789	0.007	0	9	C5orf49
464	0	2.35297339	0.799	0.011	0	9	PIFO
465	0	2.35182833	0.774	0.005	0	9	C11orf88
466	0	2.28562611	0.819	0.003	0	9	LRRIQ1
467	0	2.24881081	0.664	0.006	0	9	C2orf40
468	0	2.2366094	0.782	0.024	0	9	DNAAF1
469	0	2.2347522	0.772	0.009	0	9	C9orf116
470	0	2.19392612	0.775	0.103	0	9	MORN2
471	0	2.14096284	0.728	0.005	0	9	DYNLRB2
472	0	2.12357807	0.77	0.005	0	9	MS4A8
473	0	2.11725231	0.601	0.012	0	9	GSTA1
474	0	2.11574822	0.736	0.004	0	9	CAPSL
475	0	2.10562403	0.718	0.004	0	9	SNTN
476	0	2.10309543	0.743	0.052	0	9	AGR2
477	0	2.06132937	0.735	0.005	0	9	ZMYND10
478	0	2.01723107	0.676	0.05	0	9	CYP4B1
479	0	2.00797214	0.804	0.184	0	9	ODF3B
480	0	1.97716667	0.726	0.057	0	9	CLDN4
481	0	1.94510483	0.758	0.068	0	9	FXYD3
482	0	1.94281755	0.586	0.071	0	9	GDF15
483	0	1.94222215	0.779	0.089	0	9	KRT8
484	0	1.90962589	0.733	0.034	0	9	EFHC1
485	0	1.89903095	0.688	0.005	0	9	AC013264.2
486	0	1.88558612	0.725	0.004	0	9	CCDC78
487	0	1.88122407	0.715	0.029	0	9	FAM229B
488	0	1.87814062	0.725	0.071	0	9	MRPS31
489	0	1.86497657	0.688	0.002	0	9	CFAP126
490	0	1.84163796	0.698	0.026	0	9	CLDN3
491	0	1.84130382	0.618	0.003	0	9	RP11-356K23.1
492	0	1.83426818	0.672	0.003	0	9	MORN5
493	0	1.83245523	0.703	0.005	0	9	FOXJ1
494	0	1.81904054	0.755	0.082	0	9	WFDC2

495	0	1.81453714	0.642	0.003	0	9	FABP6
496	0	1.8104374	0.701	0.002	0	9	FAM92B
497	0	1.78153606	0.689	0.008	0	9	CCDC146
498	0	1.76371077	0.694	0.025	0	9	TCTEX1D2
499	0	1.73603286	0.598	0.023	0	9	CD24
500	3.55E-250	2.07273604	0.875	0.546	1.20E-245	9	PRDX5
501	0	3.1394945	0.389	0.014	0	10	CCL17
502	0	1.7529664	0.929	0.253	0	10	GPR183
503	0	1.22775093	0.568	0.078	0	10	IL1R2
504	0	1.17633346	0.624	0.061	0	10	FCGR2B
505	0	1.1412034	0.297	0.014	0	10	S100B
506	0	1.13794604	0.43	0.027	0	10	F13A1
507	0	0.94184967	0.434	0.027	0	10	CLEC10A
508	0	0.85932132	0.382	0.024	0	10	PKIB
509	2.04E-278	1.64706598	0.923	0.337	6.87E-274	10	HLA-DQA1
510	6.78E-272	1.75538277	0.987	0.584	2.29E-267	10	HLA-DPB1
511	6.22E-261	0.95658732	0.69	0.155	2.09E-256	10	RNASE6
512	3.37E-256	1.71369453	0.844	0.292	1.13E-251	10	INSIG1
513	4.93E-254	0.90471322	0.648	0.15	1.66E-249	10	CSF2RA
514	2.37E-245	0.75052355	0.32	0.033	7.99E-241	10	RAMP1
515	5.07E-245	1.11992732	0.682	0.154	1.71E-240	10	DUSP4
516	3.20E-240	1.60684279	0.989	0.598	1.08E-235	10	HLA-DPA1
517	1.45E-238	1.46207661	0.994	0.742	4.90E-234	10	CD74
518	5.67E-237	1.58737495	0.966	0.445	1.91E-232	10	HLA-DQB1
519	1.07E-229	1.43463435	0.998	0.712	3.60E-225	10	HLA-DRA
520	4.88E-223	1.03998028	0.874	0.282	1.64E-218	10	RGS1
521	7.34E-213	1.37654272	0.981	0.576	2.47E-208	10	HLA-DRB1
522	4.09E-202	1.46070373	0.741	0.246	1.38E-197	10	HLA-DQA2
523	8.02E-199	0.86240148	0.513	0.102	2.70E-194	10	FGL2
524	4.03E-195	0.87385207	0.583	0.148	1.36E-190	10	CD86
525	1.03E-193	1.14389476	0.786	0.27	3.47E-189	10	MS4A6A
526	4.16E-190	1.19626473	0.853	0.333	1.40E-185	10	RGS2
527	3.20E-172	0.98679173	0.94	0.464	1.08E-167	10	HLA-DMA
528	2.51E-171	0.78205185	0.56	0.131	8.45E-167	10	SERPINB9
529	4.84E-163	0.98265837	0.831	0.357	1.63E-158	10	HLA-DMB
530	2.16E-159	1.24148137	0.776	0.321	7.26E-155	10	CD83
531	3.70E-157	1.41722232	0.885	0.521	1.25E-152	10	AREG
532	3.39E-136	1.48150078	0.821	0.405	1.14E-131	10	HLA-DRB5
533	8.66E-130	1.05584865	0.633	0.224	2.92E-125	10	C15orf48
534	1.44E-128	0.74945268	0.703	0.266	4.86E-124	10	MXD1
535	1.51E-126	1.09320176	0.812	0.424	5.09E-122	10	REL
536	3.18E-119	0.75974196	0.782	0.368	1.07E-114	10	RGS10
537	7.66E-117	0.83769077	0.784	0.361	2.58E-112	10	FCGR2A
538	1.06E-112	0.75039974	0.508	0.164	3.56E-108	10	AXL
539	1.15E-111	0.71409263	0.915	0.553	3.89E-107	10	TYMP
540	1.73E-104	0.74708184	0.549	0.198	5.82E-100	10	CPVL
541	3.89E-102	0.81462199	0.876	0.527	1.31E-97	10	PLAUR
542	6.36E-98	0.85320273	0.897	0.597	2.14E-93	10	ATP1B3
543	4.28E-95	0.88971893	0.6	0.244	1.44E-90	10	EREG
544	9.21E-95	0.86387935	0.97	0.695	3.10E-90	10	CST3

545	4.94E-92	0.86343555	0.84	0.534	1.67E-87	10	HERPUD1
546	7.58E-92	0.79710878	0.654	0.298	2.55E-87	10	SGK1
547	2.39E-77	0.73382065	0.496	0.2	8.05E-73	10	JAML
548	7.24E-62	0.72929823	0.695	0.411	2.44E-57	10	THBS1
549	1.03E-42	0.98960218	0.633	0.399	3.49E-38	10	CXCL8
550	2.72E-40	1.04018234	0.43	0.208	9.16E-36	10	G0S2
551	0	5.32149053	0.968	0.037	0	11	CCL21
552	0	2.99964634	0.91	0.037	0	11	TFF3
553	0	2.62195579	0.912	0.107	0	11	GNG11
554	0	2.60274679	0.846	0.015	0	11	MMRN1
555	0	2.54489504	0.926	0.228	0	11	IGFBP7
556	0	2.31840961	0.668	0.063	0	11	RGS16
557	0	2.23033518	0.87	0.144	0	11	ADIRF
558	0	2.10885255	0.755	0.056	0	11	AKAP12
559	0	2.03440434	0.864	0.171	0	11	TFPI
560	0	2.01577581	0.819	0.043	0	11	PPFIBP1
561	0	1.97810276	0.729	0.018	0	11	SNCG
562	0	1.92241223	0.816	0.082	0	11	SDPR
563	0	1.85996186	0.801	0.109	0	11	ECSCR.1
564	0	1.66007745	0.545	0.017	0	11	LYVE1
565	0	1.58197445	0.856	0.105	0	11	CLDN5
566	0	1.4872159	0.58	0.023	0	11	APOLD1
567	0	1.47639063	0.769	0.117	0	11	CNN3
568	0	1.47162975	0.755	0.113	0	11	CLU
569	0	1.46325587	0.814	0.126	0	11	TIMP3
570	0	1.4119823	0.638	0.063	0	11	FXYD6
571	0	1.38603236	0.535	0.008	0	11	TM4SF18
572	0	1.38590158	0.604	0.017	0	11	GGT5
573	0	1.38029405	0.566	0.013	0	11	PDPN
574	0	1.33247546	0.564	0.066	0	11	PLPP1
575	0	1.28754895	0.327	0.003	0	11	NTS
576	0	1.26262282	0.793	0.127	0	11	CAV1
577	0	1.2623182	0.654	0.083	0	11	IGFBP4
578	0	1.23960201	0.67	0.089	0	11	CRIP2
579	0	1.23381336	0.601	0.019	0	11	KANK3
580	0	1.18147354	0.529	0.037	0	11	CNKSR3
581	0	1.17051714	0.689	0.075	0	11	CALD1
582	2.73E-305	1.24913834	0.601	0.076	9.19E-301	11	SLC9A3R2
583	5.30E-297	1.77793332	0.856	0.183	1.79E-292	11	NNMT
584	8.43E-287	1.15296391	0.396	0.035	2.84E-282	11	IGF1
585	1.23E-286	1.37485039	0.678	0.107	4.13E-282	11	HYAL2
586	1.73E-262	1.74150313	0.378	0.034	5.81E-258	11	IGFBP5
587	4.10E-258	1.29463251	0.811	0.162	1.38E-253	11	TM4SF1
588	3.49E-245	1.304238	0.598	0.101	1.18E-240	11	PROCR
589	6.90E-238	1.72607998	0.827	0.23	2.33E-233	11	APP
590	6.79E-221	1.44423984	0.646	0.124	2.29E-216	11	MYC
591	3.34E-182	1.175405	0.428	0.061	1.12E-177	11	EFEMP1
592	4.30E-145	1.16502806	0.588	0.157	1.45E-140	11	NRP2
593	2.21E-140	1.46453084	0.62	0.165	7.45E-136	11	HES1
594	1.13E-139	1.31312148	0.915	0.55	3.82E-135	11	HSPB1

595	1.58E-137	1.22115066	0.918	0.502	5.33E-133	11	IFITM3
596	5.32E-127	1.28621269	0.875	0.501	1.79E-122	11	CD59
597	2.63E-121	1.23009345	0.787	0.392	8.85E-117	11	RAB11A
598	4.77E-107	1.21849228	0.779	0.403	1.61E-102	11	GYPC
599	1.01E-90	1.17108513	0.638	0.23	3.41E-86	11	CCL2
600	1.87E-54	1.15250372	0.729	0.434	6.31E-50	11	HSPA1A
601	0	4.33205516	0.693	0.022	0	12	BPIFB1
602	0	3.62475358	0.428	0.017	0	12	MSMB
603	0	3.4892615	0.952	0.185	0	12	SLPI
604	0	3.173089	0.931	0.087	0	12	WFDC2
605	0	2.98611301	0.708	0.03	0	12	LCN2
606	0	2.88703723	0.575	0.043	0	12	TFF3
607	0	2.49702562	0.765	0.051	0	12	PIGR
608	0	2.25611487	0.804	0.053	0	12	CXCL17
609	0	2.11783583	0.738	0.06	0	12	AGR2
610	0	2.04903585	0.271	0.003	0	12	MUC5AC
611	0	1.62256951	0.696	0.086	0	12	KRT19
612	0	1.609411	0.66	0.009	0	12	KLK11
613	0	1.59063806	0.675	0.082	0	12	TACSTD2
614	0	1.45104576	0.66	0.071	0	12	ELF3
615	0	1.40469024	0.63	0.065	0	12	CLDN4
616	0	1.31544826	0.395	0.015	0	12	TMEM45A
617	0	1.28466222	0.497	0.012	0	12	TSPAN8
618	0	1.21752943	0.458	0.02	0	12	GSTA1
619	0	1.15694429	0.482	0.041	0	12	C16orf89
620	0	1.15199053	0.518	0.031	0	12	TSPAN1
621	0	1.13559261	0.262	0.002	0	12	CXCL6
622	0	1.12788327	0.554	0.052	0	12	S100A14
623	0	1.0747736	0.452	0.012	0	12	CP
624	0	0.98089521	0.361	0.002	0	12	CYP2F1
625	0	0.97507116	0.319	0.005	0	12	AQP5
626	3.17E-296	1.94319366	0.59	0.071	1.07E-291	12	S100P
627	1.07E-273	1.07994492	0.623	0.077	3.61E-269	12	FXYD3
628	2.00E-270	1.04447152	0.623	0.08	6.75E-266	12	KRT7
629	1.37E-267	0.98588762	0.569	0.065	4.60E-263	12	MUC1
630	1.89E-265	5.4212904	0.889	0.24	6.37E-261	12	SCGB3A1
631	2.10E-253	0.97818175	0.53	0.059	7.06E-249	12	CYP4B1
632	1.10E-246	1.0886037	0.578	0.074	3.69E-242	12	GPRC5A
633	2.13E-242	1.2315254	0.593	0.084	7.19E-238	12	FOLR1
634	4.76E-236	1.36621112	0.72	0.125	1.61E-231	12	KRT18
635	3.71E-204	1.1487897	0.467	0.06	1.25E-199	12	AKR1C1
636	2.53E-193	5.80718671	0.91	0.402	8.51E-189	12	SCGB1A1
637	2.08E-189	1.21060633	0.593	0.1	7.00E-185	12	KRT8
638	1.79E-184	1.06426262	0.482	0.073	6.02E-180	12	MDK
639	2.11E-176	2.23010607	0.623	0.13	7.11E-172	12	CXCL1
640	4.33E-176	1.07326374	0.476	0.068	1.46E-171	12	AGR3
641	6.76E-140	4.88319865	0.515	0.111	2.28E-135	12	SCGB3A2
642	1.99E-123	1.59844689	0.867	0.472	6.71E-119	12	CYB5A
643	6.56E-111	1.56832761	0.578	0.154	2.21E-106	12	SFTPB
644	4.13E-110	1.10210763	0.413	0.079	1.39E-105	12	GDF15

645	4.67E-101	1.03915654	0.524	0.138	1.57E-96	12	SOX4
646	6.60E-98	1.26141949	0.572	0.158	2.22E-93	12	MGP
647	1.16E-80	1.0849573	0.753	0.363	3.90E-76	12	MGST1
648	2.88E-77	0.97685053	0.518	0.166	9.70E-73	12	NCOA7
649	3.10E-64	2.32040615	0.271	0.058	1.04E-59	12	SAA1
650	8.23E-54	1.45656866	0.684	0.401	2.77E-49	12	CXCL8
651	0	4.76862862	0.97	0.005	0	13	TPSAB1
652	0	4.58066287	0.949	0.005	0	13	TPSB2
653	0	2.54995313	0.695	0.002	0	13	CPA3
654	0	2.48558992	0.716	0.049	0	13	HPGDS
655	0	2.05373599	0.598	0.001	0	13	MS4A2
656	0	2.04272389	0.538	0.008	0	13	RGS13
657	0	2.02985128	0.517	0.017	0	13	GATA2
658	0	1.84981542	0.48	0.001	0	13	C1orf186
659	0	1.68912015	0.462	0.002	0	13	KIT
660	0	1.58186538	0.423	0.009	0	13	MAOB
661	0	1.5488918	0.495	0.025	0	13	IL1RL1
662	0	1.41207587	0.35	0.001	0	13	SLC18A2
663	0	1.21839173	0.323	0.001	0	13	RP11-354E11.2
664	0	1.17524112	0.266	0.008	0	13	FCER1A
665	0	1.06772939	0.251	0	0	13	HDC
666	1.67E-291	2.78280153	0.879	0.187	5.64E-287	13	CD69
667	2.10E-266	1.34441738	0.426	0.039	7.08E-262	13	LTC4S
668	3.58E-207	1.66107382	0.477	0.066	1.21E-202	13	VWA5A
669	9.80E-187	1.0724165	0.335	0.034	3.30E-182	13	ITM2C
670	3.92E-165	1.50293181	0.489	0.082	1.32E-160	13	BATF
671	7.19E-153	1.8078713	0.822	0.287	2.42E-148	13	RGS1
672	2.66E-148	1.98716488	0.937	0.524	8.96E-144	13	AREG
673	4.39E-139	1.95117145	0.804	0.338	1.48E-134	13	RGS2
674	1.04E-114	1.74203817	0.61	0.192	3.52E-110	13	GPR65
675	1.16E-112	0.96696934	0.52	0.118	3.91E-108	13	CLU
676	1.58E-110	2.11877902	0.725	0.3	5.32E-106	13	BIRC3
677	1.63E-110	1.11803809	0.976	0.929	5.48E-106	13	H3F3B
678	2.14E-100	1.55099527	0.822	0.545	7.21E-96	13	LAPTM4A
679	8.22E-92	0.89811461	0.982	0.962	2.77E-87	13	MALAT1
680	7.91E-83	0.99765952	0.946	0.801	2.66E-78	13	SRGN
681	4.04E-74	1.34919621	0.393	0.104	1.36E-69	13	PTGS2
682	1.49E-72	1.22599547	0.508	0.175	5.03E-68	13	RHOH
683	2.38E-69	1.38898475	0.731	0.413	8.01E-65	13	DDIT4
684	4.62E-62	1.56187603	0.556	0.27	1.56E-57	13	CPM
685	7.44E-59	1.51019138	0.55	0.257	2.51E-54	13	HPGD
686	1.82E-58	1.36028806	0.498	0.201	6.15E-54	13	SOCS1
687	8.46E-55	0.92238697	0.873	0.806	2.85E-50	13	NFKBIA
688	1.22E-47	1.18743825	0.737	0.596	4.12E-43	13	LMNA
689	1.87E-46	0.96221774	0.846	0.748	6.29E-42	13	ANXA1
690	2.35E-46	0.96239636	0.807	0.675	7.93E-42	13	TSC22D3
691	2.60E-38	0.94465441	0.677	0.477	8.77E-34	13	SAMSN1
692	2.42E-33	0.98409101	0.622	0.446	8.15E-29	13	FOSB
693	1.24E-31	0.95626786	0.471	0.26	4.17E-27	13	NFKBIZ
694	1.48E-31	0.92702175	0.722	0.66	4.98E-27	13	SELK

695	1.85E-31	0.96042619	0.592	0.43	6.23E-27	13	CKLF
696	2.23E-31	0.93169861	0.64	0.464	7.51E-27	13	TNFAIP3
697	2.48E-30	1.02183577	0.356	0.162	8.37E-26	13	DUSP6
698	7.00E-25	0.96624926	0.444	0.272	2.36E-20	13	RAC2
699	9.45E-23	0.99534053	0.326	0.167	3.18E-18	13	CTNNBL1
700	9.79E-21	0.93439286	0.474	0.334	3.30E-16	13	ANKRD28
701	0	1.87460992	0.773	0.014	0	14	KIAA0101
702	0	1.40477783	0.629	0.007	0	14	TYMS
703	0	1.27272219	0.485	0.004	0	14	UBE2C
704	0	1.20541759	0.638	0.019	0	14	TK1
705	0	1.01571255	0.454	0.001	0	14	MKI67
706	0	0.99927321	0.433	0.002	0	14	RRM2
707	0	0.93519026	0.475	0.012	0	14	CDK1
708	0	0.89699582	0.445	0.003	0	14	BIRC5
709	0	0.86838835	0.515	0.023	0	14	CENPM
710	0	0.85189112	0.399	0.011	0	14	CDKN3
711	0	0.82331319	0.463	0.024	0	14	NUSAP1
712	0	0.78660455	0.503	0.021	0	14	ZWINT
713	0	0.72211818	0.393	0.004	0	14	TOP2A
714	0	0.67526319	0.377	0.009	0	14	CENPF
715	0	0.65494483	0.368	0.014	0	14	CENPU
716	0	0.64382218	0.39	0.005	0	14	CDT1
717	8.06E-237	0.64433072	0.469	0.051	2.71E-232	14	CENPN
718	9.10E-233	0.71363547	0.466	0.051	3.06E-228	14	GGH
719	3.84E-214	0.83776239	0.537	0.075	1.30E-209	14	TMEM106C
720	4.86E-214	0.84196574	0.598	0.096	1.64E-209	14	CENPW
721	9.01E-214	0.7850672	0.509	0.067	3.04E-209	14	SMC2
722	1.31E-208	1.24750021	0.561	0.084	4.43E-204	14	PTTG1
723	1.24E-189	0.66194928	0.54	0.081	4.16E-185	14	SKA2
724	3.26E-172	1.84128234	0.856	0.314	1.10E-167	14	STMN1
725	7.64E-161	0.9853327	0.552	0.104	2.57E-156	14	DTYMK
726	7.73E-159	1.37633264	0.739	0.214	2.61E-154	14	CKS1B
727	6.56E-142	1.50017816	0.933	0.688	2.21E-137	14	H2AFZ
728	1.68E-136	1.52295244	0.923	0.561	5.68E-132	14	HMGN2
729	6.53E-125	0.724427	0.546	0.116	2.20E-120	14	SMC4
730	2.61E-115	1.05639982	0.571	0.146	8.81E-111	14	PCNA
731	2.89E-113	1.49049613	0.917	0.667	9.73E-109	14	TUBA1B
732	1.34E-107	1.24083162	0.503	0.122	4.53E-103	14	HIST1H4C
733	7.19E-94	1.43092998	0.847	0.502	2.42E-89	14	TUBB
734	1.11E-83	0.96638819	0.902	0.73	3.72E-79	14	HMGB1
735	3.28E-77	0.76158635	0.607	0.21	1.11E-72	14	IDH2
736	4.26E-75	1.00621161	0.727	0.353	1.44E-70	14	DUT
737	1.19E-71	0.81082568	0.675	0.265	4.00E-67	14	CKS2
738	4.66E-62	0.79796024	0.742	0.379	1.57E-57	14	NUCKS1
739	2.26E-61	0.8675534	0.776	0.439	7.61E-57	14	H2AFV
740	1.59E-60	0.69867852	0.62	0.257	5.36E-56	14	RPA3
741	9.79E-60	0.80853896	0.727	0.423	3.30E-55	14	DEK
742	5.73E-59	0.93180839	0.816	0.456	1.93E-54	14	HMGB2
743	4.43E-56	0.76518864	0.727	0.383	1.49E-51	14	LSM4
744	1.43E-52	0.90052876	0.721	0.425	4.81E-48	14	RANBP1

745	2.67E-50	0.82530544	0.748	0.472	9.01E-46	14	ANP32B
746	5.41E-44	0.649005	0.801	0.533	1.82E-39	14	HMGN1
747	6.66E-41	0.64644946	0.666	0.383	2.24E-36	14	SIVA1
748	5.34E-39	0.7415754	0.739	0.464	1.80E-34	14	YWHAH
749	3.57E-15	0.64028466	0.58	0.405	1.20E-10	14	FABP4
750	0.00058605	1.47214778	0.466	0.332	1	14	S100A8
751	0	5.67385307	0.656	0.062	0	15	IGKC
752	0	3.78492025	0.504	0.007	0	15	IGHM
753	0	2.26988655	0.648	0.002	0	15	CD79A
754	0	1.74634575	0.489	0.001	0	15	MS4A1
755	0	1.33921806	0.359	0.014	0	15	LY9
756	0	1.15793673	0.289	0.002	0	15	TNFRSF13C
757	0	1.14690372	0.322	0.014	0	15	BANK1
758	5.49E-271	3.60206794	0.285	0.014	1.85E-266	15	JCHAIN
759	9.27E-271	1.46489178	0.385	0.025	3.12E-266	15	CCR7
760	1.34E-253	0.8968858	0.3	0.016	4.52E-249	15	GNG7
761	8.32E-168	4.281094	0.322	0.029	2.80E-163	15	IGLC2
762	1.32E-75	4.48817786	0.256	0.039	4.44E-71	15	IGHA1
763	2.27E-75	1.19887161	0.352	0.069	7.65E-71	15	LTB
764	5.63E-70	0.80310141	0.974	0.941	1.90E-65	15	RPL3
765	1.03E-68	1.41481667	0.819	0.538	3.49E-64	15	HERPUD1
766	2.15E-65	0.71076805	0.989	0.972	7.26E-61	15	RPL13A
767	1.32E-63	1.25895266	0.815	0.455	4.44E-59	15	CXCR4
768	1.05E-58	0.76443959	0.974	0.954	3.54E-54	15	RPL18A
769	5.60E-58	1.01578481	0.633	0.248	1.89E-53	15	ISG20
770	1.59E-56	0.70091903	0.974	0.974	5.37E-52	15	RPL13
771	6.98E-55	0.71592971	0.974	0.967	2.35E-50	15	RPL21
772	5.25E-54	0.68787215	0.97	0.956	1.77E-49	15	RPS6
773	9.99E-54	0.69655149	0.948	0.928	3.37E-49	15	RPS8
774	5.60E-53	0.66365191	0.952	0.931	1.89E-48	15	RPL23A
775	1.17E-50	0.6756863	0.93	0.897	3.93E-46	15	RPS5
776	4.81E-47	0.8487006	0.278	0.066	1.62E-42	15	RP1-313I6.12
777	3.19E-44	0.70264069	0.967	0.963	1.08E-39	15	RPS27
778	3.00E-43	0.70275626	0.915	0.808	1.01E-38	15	RPL4
779	1.35E-42	0.9344286	0.474	0.177	4.56E-38	15	RHOH
780	3.12E-42	0.76311977	0.859	0.763	1.05E-37	15	EEF1B2
781	6.71E-39	1.12473564	0.652	0.422	2.26E-34	15	CD37
782	4.72E-38	0.96008867	0.604	0.302	1.59E-33	15	BIRC3
783	3.52E-36	1.41724438	0.552	0.329	1.18E-31	15	CD83
784	3.14E-35	0.69601867	0.83	0.675	1.06E-30	15	TSC22D3
785	3.76E-35	1.03020026	0.67	0.434	1.27E-30	15	EZR
786	3.74E-33	0.7074501	0.822	0.714	1.26E-28	15	EEF2
787	1.45E-32	0.74463747	0.763	0.594	4.88E-28	15	GLTSCR2
788	2.54E-28	0.86919022	0.841	0.838	8.56E-24	15	BTG1
789	1.82E-21	0.8437745	0.541	0.339	6.13E-17	15	ZNF331
790	1.91E-20	0.75791105	0.407	0.209	6.43E-16	15	SMCHD1
791	1.97E-18	0.88302304	0.304	0.137	6.63E-14	15	PMAIP1
792	3.25E-17	0.6597632	0.637	0.454	1.09E-12	15	HLA-DQB1
793	2.00E-16	0.66298147	0.341	0.174	6.75E-12	15	VPS37B
794	4.30E-16	0.83994028	0.53	0.388	1.45E-11	15	YPEL5

795	4.44E-14	0.67841099	0.496	0.348	1.50E-09	15	HLA-DQA1
796	7.59E-10	0.6802911	0.6	0.54	2.56E-05	15	RPL17
797	2.06E-09	0.7134211	0.478	0.375	6.96E-05	15	NR4A2
798	2.13E-08	0.84193751	0.348	0.266	0.0007162	15	IRF8
799	0.00638368	0.65779797	0.319	0.293	1	15	BCAS2
800	0.00639262	0.69891223	0.263	0.233	1	15	CHPT1

Table S3. Top 50 most highly upregulated genes in each cluster in healthy and IPF combined analysis (Figure 2), comparing each cluster with all other clusters (FindAllMarkers function Seurat). P-values as indicated; pct.1=percent of cells expressing the gene in the cluster of interest; pct.2=percent of all other cells expressing the gene of interest (pct refers to the precent of cells expressing at least one transcript (UMI)).

Cluster	p_val	avg_logFC	pct.1	pct.2	p_val_adj	cluster	gene
1	0	2.575189	0.935	0.172	0	0	FABP4
2	0	2.065742	0.99	0.288	0	0	C1QB
3	0	1.970049	0.989	0.299	0	0	C1QA
4	0	1.59832	0.974	0.293	0	0	FBP1
5	0	1.55897	0.954	0.207	0	0	C1QC
6	0	1.544235	0.98	0.438	0	0	CD52
7	0	1.474363	0.943	0.166	0	0	MCEMP1
8	0	1.451863	0.994	0.381	0	0	APOC1
9	0	1.417984	0.822	0.082	0	0	INHBA
10	0	1.315554	0.845	0.062	0	0	RP11-598F7.3
11	0	1.301823	0.982	0.401	0	0	ALOX5AP
12	0	1.274144	0.953	0.284	0	0	SERPINA1
13	0	1.230772	0.94	0.23	0	0	VSIG4
14	0	1.225395	0.954	0.21	0	0	MSR1
15	0	1.221516	0.966	0.311	0	0	GCHFR
16	0	1.197444	1	0.99	0	0	FTL
17	0	1.192911	0.974	0.5	0	0	GRN
18	0	1.192043	0.976	0.311	0	0	ACP5
19	0	1.158762	0.923	0.188	0	0	TREM1
20	0	1.157352	0.972	0.335	0	0	CD68
21	0	1.140119	0.951	0.236	0	0	MARCO
22	0	1.109917	0.947	0.244	0	0	SPI1
23	0	1.105316	0.645	0.047	0	0	RBP4
24	0	1.100955	0.99	0.388	0	0	LYZ
25	0	1.098315	0.987	0.626	0	0	TSPO
26	0	1.088272	0.997	0.677	0	0	HLA-DRA
27	0	1.073642	0.979	0.292	0	0	MS4A7
28	0	1.065627	0.958	0.25	0	0	SNX10
29	0	1.058387	0.994	0.47	0	0	TYROBP
30	0	1.022437	0.952	0.414	0	0	ALDH2
31	0	1.017573	0.994	0.748	0	0	CD74
32	0	1.017361	0.475	0.089	0	0	FABP3
33	0	1.012983	0.709	0.144	0	0	AKR1C3
34	0	1.006968	0.953	0.301	0	0	CXCL16
35	0	1.005456	0.967	0.403	0	0	GLRX
36	0	0.997917	0.744	0.103	0	0	MIR3945HG
37	0	0.98111	0.968	0.318	0	0	C1orf162

38	0	0.980668	0.938	0.23	0	0	MRC1
39	0	0.968695	0.962	0.412	0	0	CTSC
40	0	0.95926	0.994	0.609	0	0	CTSD
41	0	0.950098	0.982	0.564	0	0	NOP10
42	0	0.946318	0.989	0.578	0	0	HLA-DPA1
43	0	0.94246	0.848	0.145	0	0	LPL
44	0	0.932042	0.943	0.346	0	0	PYCARD
45	0	0.919535	0.981	0.582	0	0	HLA-DRB1
46	0	0.904939	0.968	0.447	0	0	HLA-DQB1
47	0	0.898732	0.907	0.219	0	0	CYP27A1
48	0	0.89098	0.873	0.169	0	0	ALOX5
49	0	0.8882	0.737	0.046	0	0	PCOLCE2
50	0	0.870075	0.931	0.27	0	0	CSTA
51	0	2.689071	0.514	0.092	0	1	SPP1
52	0	1.854658	0.766	0.354	0	1	APOE
53	0	1.772461	0.676	0.281	0	1	CCL18
54	0	1.591557	0.98	0.503	0	1	CTSB
55	0	1.587022	0.876	0.26	0	1	GPNMB
56	0	1.539034	0.909	0.398	0	1	CTSL
57	0	1.431186	0.984	0.584	0	1	CTSD
58	0	1.397726	0.613	0.204	0	1	LGMN
59	0	1.370701	1	0.99	0	1	FTL
60	0	1.318008	0.863	0.368	0	1	APOC1
61	0	1.294624	0.983	0.657	0	1	CSTB
62	0	1.248422	0.84	0.336	0	1	CTSZ
63	0	1.188911	0.916	0.445	0	1	FABP5
64	0	1.186697	0.982	0.626	0	1	PSAP
65	0	1.152242	0.789	0.222	0	1	MARCO
66	0	1.150342	0.927	0.299	0	1	CD68
67	0	1.110908	0.988	0.661	0	1	GPX1
68	0	1.091306	0.874	0.287	0	1	ACP5
69	0	1.069091	0.765	0.202	0	1	MS4A4A
70	0	1.042793	0.986	0.648	0	1	LGALS1
71	0	1.036099	0.426	0.153	0	1	CCL20
72	0	1.021409	0.992	0.433	0	1	TYROBP
73	0	1.017547	0.986	0.406	0	1	FCER1G
74	0	1.002343	0.816	0.227	0	1	CD163
75	0	0.985551	0.632	0.17	0	1	MS4A6A
76	0	0.98187	0.622	0.148	0	1	TREM2
77	0	0.966808	0.549	0.057	0	1	PLA2G7
78	0	0.952167	0.722	0.283	0	1	LIPA
79	0	0.941465	0.899	0.261	0	1	MS4A7
80	0	0.940627	0.914	0.47	0	1	BRI3

81	0	0.93004	0.96	0.647	0	1	LGALS3
82	0	0.924265	0.782	0.265	0	1	DAB2
83	0	0.920806	0.932	0.489	0	1	AP2S1
84	0	0.912031	0.744	0.225	0	1	MRC1
85	0	0.892056	1	0.99	0	1	FTH1
86	0	0.873376	0.865	0.349	0	1	CAPG
87	0	0.871927	0.928	0.451	0	1	CTSS
88	0	0.855624	0.919	0.463	0	1	TYMP
89	0	0.853534	0.98	0.751	0	1	SH3BGRL3
90	0	0.845353	0.913	0.298	0	1	AIF1
91	0	0.841784	0.729	0.319	0	1	GCHFR
92	0	0.84129	0.952	0.57	0	1	ATP6V1F
93	0	0.837245	0.704	0.191	0	1	CYBB
94	0	0.832164	0.904	0.46	0	1	H2AFY
95	0	0.828227	0.905	0.498	0	1	EMP3
96	0	0.826696	0.765	0.22	0	1	VSIG4
97	0	0.817142	0.54	0.154	0	1	SDC2
98	0	0.816062	0.928	0.538	0	1	ATP6V0B
99	0	0.811402	0.986	0.675	0	1	NPC2
100	0	0.79749	0.625	0.21	0	1	TGFBI
101	0	1.959538	0.81	0.244	0	2	IL7R
102	0	1.862547	0.958	0.398	0	2	CXCR4
103	0	1.70519	0.947	0.674	0	2	ZFP36L2
104	0	1.672995	0.824	0.329	0	2	RGS1
105	0	1.606779	0.525	0.097	0	2	BATF
106	0	1.577995	0.608	0.054	0	2	CD2
107	0	1.577786	0.567	0.043	0	2	TRAC
108	0	1.455278	0.609	0.061	0	2	CD3D
109	0	1.438303	0.979	0.848	0	2	BTG1
110	0	1.414919	0.411	0.031	0	2	GPR171
111	0	1.408484	0.938	0.707	0	2	TSC22D3
112	0	1.349483	0.432	0.114	0	2	RP11-138A9.2
113	0	1.315332	0.31	0.052	0	2	KLRB1
114	0	1.309958	0.621	0.263	0	2	STK4
115	0	1.308785	0.367	0.05	0	2	LTB
116	0	1.295712	0.432	0.043	0	2	TRBC2
117	0	1.295084	0.669	0.311	0	2	CYTIP
118	0	1.290988	0.373	0.044	0	2	TRBC1
119	0	1.284673	0.674	0.4	0	2	LEPROTL1
120	0	1.283904	0.514	0.213	0	2	RP11-138A9.1
121	0	1.246367	0.788	0.593	0	2	TXNIP
122	0	1.234374	0.458	0.141	0	2	RORA
123	0	1.227983	0.901	0.749	0	2	SARAF

124	0	1.210037	0.466	0.18	0	2	AIM1
125	0	1.167131	0.437	0.136	0	2	PRDM1
126	0	1.158549	0.427	0.028	0	2	CD3E
127	0	1.124296	0.67	0.378	0	2	PTPRC
128	0	1.112049	0.343	0.015	0	2	TRAT1
129	0	1.054597	0.493	0.153	0	2	RHOH
130	0	1.039885	0.385	0.174	0	2	DUSP4
131	0	1.03155	0.37	0.037	0	2	SPOCK2
132	0	1.01946	0.482	0.204	0	2	SOCS1
133	0	1.019177	0.448	0.17	0	2	CNOT6L
134	0	1.010396	0.342	0.067	0	2	CLEC2D
135	0	0.999405	0.54	0.197	0	2	CD48
136	0	0.996372	0.33	0.073	0	2	AC016831.7
137	0	0.983799	0.622	0.224	0	2	IL32
138	0	0.982153	0.713	0.49	0	2	CREM
139	0	0.97676	0.656	0.337	0	2	BIRC3
140	0	0.942243	0.405	0.158	0	2	PIK3IP1
141	0	0.940113	0.401	0.117	0	2	TUBA4A
142	0	0.940067	0.281	0.026	0	2	CD96
143	0	0.9328	0.999	0.975	0	2	RPS27
144	0	0.931184	0.423	0.138	0	2	FYN
145	0	0.918492	0.508	0.212	0	2	CORO1A
146	0	0.906819	0.353	0.076	0	2	ACAP1
147	2.30E-280	0.954345	0.442	0.262	7.76E-276	2	FYB
148	2.76E-267	1.13544	0.571	0.449	9.29E-263	2	HMGB2
149	5.78E-231	1.127376	0.427	0.282	1.95E-226	2	NR3C1
150	2.72E-83	0.945938	0.438	0.435	9.18E-79	2	RBPJ
151	0	3.202178	0.646	0.033	0	3	ACKR1
152	0	2.803955	0.854	0.053	0	3	CLDN5
153	0	2.72962	0.277	0.034	0	3	CXCL10
154	0	2.505467	0.355	0.023	0	3	FCN3
155	0	2.396001	0.854	0.177	0	3	TM4SF1
156	0	2.307537	0.951	0.231	0	3	IFI27
157	0	2.28435	0.735	0.024	0	3	VWF
158	0	2.109211	0.861	0.3	0	3	EPAS1
159	0	2.095602	0.434	0.078	0	3	IL6
160	0	2.071602	0.806	0.139	0	3	SPARCL1
161	0	2.070508	0.757	0.053	0	3	AQP1
162	0	2.041506	0.636	0.203	0	3	CCL2
163	0	2.020525	0.574	0.14	0	3	MT1M
164	0	2.010088	0.747	0.13	0	3	HYAL2
165	0	1.929343	0.734	0.038	0	3	RAMP2
166	0	1.859124	0.408	0.162	0	3	GBP1

167	0	1.820067	0.683	0.103	0	3	PRSS23
168	0	1.816875	0.636	0.016	0	3	RAMP3
169	0	1.77149	0.73	0.25	0	3	ICAM1
170	0	1.766799	0.582	0.028	0	3	ADAMTS9
171	0	1.751551	0.356	0.076	0	3	MT1A
172	0	1.746894	0.772	0.109	0	3	GNG11
173	0	1.736632	0.792	0.251	0	3	PECAM1
174	0	1.723996	0.464	0.02	0	3	VCAM1
175	0	1.721291	0.859	0.513	0	3	SOCS3
176	0	1.719862	0.849	0.394	0	3	PDLIM1
177	0	1.713007	0.394	0.007	0	3	SELE
178	0	1.702128	0.949	0.551	0	3	IFITM3
179	0	1.679003	0.733	0.332	0	3	EMP1
180	0	1.670177	0.734	0.102	0	3	NPDC1
181	0	1.66091	0.781	0.418	0	3	MT1X
182	0	1.659621	0.595	0.019	0	3	FAM107A
183	0	1.631279	0.455	0.036	0	3	CX3CL1
184	0	1.611171	0.314	0.019	0	3	CSF3
185	0	1.562765	0.548	0.15	0	3	TNFSF10
186	0	1.562105	0.825	0.334	0	3	IGFBP7
187	0	1.537056	0.433	0.084	0	3	C10orf10
188	0	1.536595	0.779	0.152	0	3	CAV1
189	0	1.524014	0.954	0.762	0	3	MT2A
190	0	1.513182	0.597	0.014	0	3	CLEC14A
191	0	1.5131	0.724	0.161	0	3	TIMP3
192	0	1.468971	0.577	0.071	0	3	EGFL7
193	0	1.441647	0.749	0.207	0	3	NNMT
194	0	1.420419	0.531	0.013	0	3	SLCO2A1
195	0	1.417793	0.408	0.075	0	3	GBP4
196	0	1.411765	0.581	0.027	0	3	CALCRL
197	0	1.395058	0.58	0.139	0	3	C8orf4
198	0	1.382946	0.668	0.139	0	3	TCF4
199	0	1.369098	0.345	0.069	0	3	SERPINE1
200	0	1.368953	0.872	0.56	0	3	CD59
201	0	2.500895	0.888	0.082	0	4	CCL5
202	0	2.226725	0.888	0.191	0	4	CCL4
203	0	2.116498	0.768	0.07	0	4	NKG7
204	0	2.023487	0.461	0.05	0	4	GNLY
205	0	1.960822	0.671	0.053	0	4	GZMB
206	0	1.852869	0.73	0.088	0	4	CST7
207	0	1.794033	0.65	0.072	0	4	CD7
208	0	1.777633	0.528	0.034	0	4	KLRD1
209	0	1.745092	0.939	0.411	0	4	CXCR4

210	0	1.706607	0.428	0.01	0	4	CD8A
211	0	1.705075	0.293	0.01	0	4	GZMK
212	0	1.68462	0.735	0.242	0	4	DUSP2
213	0	1.661368	0.527	0.04	0	4	GZMA
214	0	1.637208	0.513	0.032	0	4	PRF1
215	0	1.621945	0.427	0.023	0	4	GZMH
216	0	1.59207	0.566	0.076	0	4	CD3D
217	0	1.446458	0.334	0.056	0	4	KLRB1
218	0	1.427551	0.576	0.133	0	4	SYTL3
219	0	1.376858	0.676	0.24	0	4	ISG20
220	0	1.346899	0.371	0.111	0	4	CCL4L2
221	0	1.324066	0.41	0.049	0	4	TRBC1
222	0	1.301628	0.391	0.07	0	4	CTSW
223	0	1.299599	0.894	0.684	0	4	ZFP36L2
224	0	1.298246	0.487	0.074	0	4	CD2
225	0	1.288778	0.453	0.12	0	4	TUBA4A
226	0	1.280116	0.683	0.384	0	4	PTPRC
227	0	1.278424	0.42	0.053	0	4	TRBC2
228	0	1.27819	0.433	0.063	0	4	TRAC
229	0	1.264025	0.303	0.005	0	4	CD8B
230	0	1.223549	0.496	0.139	0	4	FYN
231	0	1.111438	0.37	0.077	0	4	RUNX3
232	0	1.101676	0.957	0.852	0	4	BTG1
233	0	1.10081	0.34	0.03	0	4	GZMM
234	0	1.082556	0.616	0.233	0	4	IL32
235	0	1.072177	0.704	0.496	0	4	CREM
236	0	1.062743	0.526	0.277	0	4	STK4
237	0	1.062706	0.494	0.22	0	4	CORO1A
238	0	1.060277	0.865	0.717	0	4	TSC22D3
239	0	1.044334	0.412	0.178	0	4	CNOT6L
240	0	1.034538	0.555	0.326	0	4	CYTIP
241	0	1.013806	0.331	0.044	0	4	CD3E
242	0	1.010426	0.328	0.074	0	4	CLEC2D
243	0	0.964197	0.292	0.064	0	4	PTPN7
244	0	0.953208	0.483	0.208	0	4	CD48
245	0	0.94896	0.296	0.039	0	4	CD247
246	2.97E-294	1.120062	0.534	0.339	1.00E-289	4	PPP2R5C
247	4.26E-272	0.952317	0.673	0.551	1.44E-267	4	ID2
248	2.27E-222	1.061857	0.549	0.414	7.65E-218	4	LEPROTL1
249	3.38E-182	0.991651	0.365	0.197	1.14E-177	4	PIK3R1
250	5.34E-39	1.235969	0.323	0.293	1.80E-34	4	CMC1
251	0	4.060853	0.997	0.104	0	5	DCN
252	0	3.853383	0.971	0.057	0	5	LUM

253	0	3.489175	0.955	0.048	0	5	FBLN1
254	0	3.377072	0.835	0.046	0	5	COL1A1
255	0	3.363631	0.926	0.048	0	5	COL1A2
256	0	3.354759	0.833	0.042	0	5	COL3A1
257	0	2.889382	0.626	0.014	0	5	SFRP2
258	0	2.864914	0.788	0.072	0	5	PTGDS
259	0	2.659663	0.989	0.269	0	5	MGP
260	0	2.611553	0.911	0.263	0	5	A2M
261	0	2.595555	0.952	0.065	0	5	C1S
262	0	2.585958	0.793	0.329	0	5	CFD
263	0	2.451187	0.902	0.026	0	5	MFAP4
264	0	2.42983	0.902	0.148	0	5	SERPINF1
265	0	2.392631	0.902	0.047	0	5	MMP2
266	0	2.378088	0.895	0.227	0	5	SPARC
267	0	2.355201	0.91	0.07	0	5	RARRES2
268	0	2.343249	0.947	0.099	0	5	C1R
269	0	2.304875	0.93	0.057	0	5	COL6A2
270	0	2.276207	0.822	0.132	0	5	CYR61
271	0	2.232366	0.909	0.077	0	5	NBL1
272	0	2.188935	0.706	0.02	0	5	ADH1B
273	0	2.170129	0.767	0.055	0	5	CCDC80
274	0	2.133325	0.889	0.055	0	5	COL6A1
275	0	2.121231	0.823	0.017	0	5	COL6A3
276	0	2.052813	0.664	0.058	0	5	IGFBP6
277	0	2.049783	0.848	0.187	0	5	IGFBP4
278	0	2.015029	0.816	0.05	0	5	BGN
279	0	1.976378	0.61	0.045	0	5	APOD
280	0	1.91574	0.813	0.082	0	5	CFH
281	0	1.895284	0.966	0.635	0	5	TIMP1
282	0	1.890995	0.83	0.032	0	5	PCOLCE
283	0	1.874766	0.548	0.064	0	5	IGFBP5
284	0	1.85947	0.427	0.006	0	5	SFRP4
285	0	1.852663	0.695	0.106	0	5	CTGF
286	0	1.803879	0.668	0.054	0	5	C7
287	0	1.770636	0.63	0.091	0	5	RARRES1
288	0	1.732492	0.745	0.019	0	5	MEG3
289	0	1.72828	0.889	0.22	0	5	SEPP1
290	0	1.727997	0.815	0.053	0	5	PLAC9
291	0	1.726545	0.595	0.007	0	5	DPT
292	0	1.719354	0.933	0.225	0	5	NNMT
293	0	1.70122	0.701	0.019	0	5	TCF21
294	0	1.674554	0.459	0.009	0	5	ASPN
295	0	1.661608	0.883	0.183	0	5	TIMP3

296	0	1.619652	0.806	0.067	0	5	FSTL1
297	0	1.615283	0.91	0.291	0	5	FN1
298	0	1.609781	0.432	0.07	0	5	POSTN
299	0	1.607107	0.935	0.305	0	5	SERPING1
300	0	1.600202	0.893	0.53	0	5	GSN
301	0	3.120623	0.817	0.24	0	6	S100A8
302	0	2.806273	0.91	0.408	0	6	S100A9
303	0	2.477938	0.663	0.169	0	6	IL1B
304	0	2.41181	0.689	0.171	0	6	G0S2
305	0	2.406283	0.887	0.294	0	6	THBS1
306	0	2.095252	0.425	0.012	0	6	S100A12
307	0	2.091096	0.738	0.167	0	6	EREG
308	0	2.083302	0.368	0.023	0	6	SERPINB2
309	0	2.061598	0.738	0.054	0	6	FCN1
310	0	1.766677	0.971	0.595	0	6	NAMPT
311	0	1.750411	0.679	0.188	0	6	VCAN
312	0	1.709974	0.899	0.435	0	6	PLAUR
313	0	1.705898	0.617	0.308	0	6	CXCL8
314	0	1.591329	0.707	0.28	0	6	RP11-1143G9.4
315	0	1.527822	0.935	0.608	0	6	SOD2
316	0	1.480443	0.954	0.439	0	6	LYZ
317	0	1.448046	0.908	0.387	0	6	AIF1
318	0	1.441011	0.556	0.038	0	6	CD300E
319	0	1.422097	0.843	0.347	0	6	LST1
320	0	1.418443	0.767	0.293	0	6	C5AR1
321	0	1.409248	0.997	0.853	0	6	SAT1
322	0	1.403653	0.585	0.208	0	6	PPIF
323	0	1.342422	0.946	0.637	0	6	TIMP1
324	0	1.33289	0.384	0.035	0	6	IL1R2
325	0	1.31215	0.682	0.317	0	6	BCL2A1
326	0	1.294133	0.872	0.385	0	6	SAMSN1
327	0	1.256287	0.51	0.123	0	6	FPR2
328	0	1.243619	0.862	0.481	0	6	AREG
329	0	1.215331	0.611	0.196	0	6	MXD1
330	0	1.199673	0.972	0.49	0	6	FCER1G
331	0	1.198528	0.457	0.068	0	6	NLRP3
332	0	1.193085	0.579	0.174	0	6	FPR1
333	0	1.170192	0.42	0.028	0	6	CTB-61M7.2
334	0	1.157412	0.892	0.53	0	6	TYMP
335	0	1.133672	0.623	0.24	0	6	CD14
336	0	1.132358	0.862	0.598	0	6	ATP1B3
337	0	1.114898	0.542	0.266	0	6	INSIG1
338	0	1.108453	0.769	0.43	0	6	SLC2A3

339	0	1.105937	0.598	0.278	0	6	GK
340	0	1.097329	0.869	0.526	0	6	COTL1
341	0	1.083069	0.993	0.762	0	6	SRGN
342	0	1.06655	0.446	0.049	0	6	CFP
343	0	1.065834	0.523	0.214	0	6	SLC25A37
344	0	1.048326	0.554	0.129	0	6	SERPINB9
345	0	1.035284	0.477	0.111	0	6	FGL2
346	0	1.033189	0.551	0.232	0	6	BASP1
347	8.11E-265	1.143067	0.42	0.194	2.73E-260	6	PLEK
348	2.68E-208	1.338769	0.407	0.194	9.04E-204	6	CCL20
349	2.11E-127	1.336877	0.367	0.211	7.11E-123	6	C15orf48
350	1.62E-122	1.173475	0.564	0.413	5.47E-118	6	CXCL3
351	0	3.363606	0.663	0.16	0	7	SCGB3A2
352	0	2.702608	0.857	0.139	0	7	SFTPB
353	0	2.477146	0.902	0.157	0	7	HOPX
354	0	2.340682	0.323	0.024	0	7	AGER
355	0	2.230703	0.616	0.072	0	7	MMP7
356	0	2.193485	0.816	0.097	0	7	KRT7
357	0	2.138722	0.737	0.053	0	7	CEACAM6
358	0	2.115179	0.84	0.272	0	7	RNASE1
359	0	2.113886	0.819	0.052	0	7	SFTA2
360	0	2.050581	0.748	0.236	0	7	EMP2
361	0	1.964945	0.835	0.507	0	7	CYB5A
362	0	1.942066	0.699	0.051	0	7	NAPSA
363	0	1.750017	0.705	0.105	0	7	FOLR1
364	0	1.631634	0.61	0.017	0	7	CTSE
365	0	1.59815	0.692	0.109	0	7	GPRC5A
366	0	1.580021	0.638	0.072	0	7	SLC34A2
367	0	1.568545	0.695	0.1	0	7	CXCL17
368	0	1.547976	0.802	0.138	0	7	KRT19
369	0	1.519035	0.76	0.16	0	7	KRT18
370	0	1.508556	0.738	0.141	0	7	KRT8
371	0	1.508293	0.533	0.101	0	7	SFTPA2
372	0	1.489384	0.784	0.152	0	7	WFDC2
373	0	1.468095	0.683	0.06	0	7	SFTA3
374	0	1.467713	0.766	0.122	0	7	FXYD3
375	0	1.467579	0.707	0.099	0	7	AGR3
376	0	1.39793	0.504	0.09	0	7	SFTPA1
377	0	1.359121	0.762	0.341	0	7	MGST1
378	0	1.355262	0.662	0.092	0	7	MUC1
379	0	1.343798	0.657	0.07	0	7	S100A14
380	0	1.32864	0.758	0.259	0	7	SLPI
381	0	1.297301	0.546	0.054	0	7	SFTA1P

382	0	1.283072	0.59	0.208	0	7	CAV1
383	0	1.279106	0.613	0.092	0	7	EPCAM
384	0	1.248621	0.639	0.108	0	7	ELF3
385	0	1.245198	0.595	0.048	0	7	NKX2-1
386	0	1.242489	0.497	0.023	0	7	AQP4
387	0	1.234326	0.598	0.064	0	7	C19orf33
388	0	1.227668	0.716	0.229	0	7	ADIRF
389	0	1.221962	0.592	0.089	0	7	LMO7
390	0	1.214734	0.56	0.075	0	7	C16orf89
391	0	1.187449	0.677	0.124	0	7	TACSTD2
392	0	1.152457	0.502	0.144	0	7	TSPAN13
393	0	1.136759	0.408	0.052	0	7	CLIC3
394	0	1.099565	0.365	0.057	0	7	ANXA3
395	0	1.099012	0.613	0.098	0	7	CLDN4
396	0	1.092367	0.447	0.067	0	7	CYP4B1
397	0	1.087198	0.312	0.014	0	7	TNNC1
398	0	1.083534	0.492	0.092	0	7	CCND1
399	0	1.055947	0.557	0.099	0	7	NEDD4L
400	0	1.02084	0.635	0.285	0	7	ATP1B1
401	0	3.214167	0.994	0.075	0	8	CAPS
402	0	3.134228	0.984	0.03	0	8	TMEM190
403	0	3.099965	0.993	0.129	0	8	TPPP3
404	0	2.928799	0.986	0.032	0	8	C9orf24
405	0	2.854913	0.985	0.027	0	8	C20orf85
406	0	2.622557	0.984	0.069	0	8	TSPAN1
407	0	2.539615	0.984	0.025	0	8	RSPH1
408	0	2.505467	0.98	0.021	0	8	C1orf194
409	0	2.476742	0.979	0.02	0	8	FAM183A
410	0	2.427758	0.983	0.096	0	8	AGR3
411	0	2.253886	0.974	0.03	0	8	PIFO
412	0	2.240495	0.975	0.02	0	8	C5orf49
413	0	2.222915	0.986	0.218	0	8	CETN2
414	0	2.205698	0.993	0.578	0	8	PRDX5
415	0	2.187395	0.88	0.048	0	8	GSTA1
416	0	2.174796	0.973	0.146	0	8	MORN2
417	0	2.161806	0.969	0.026	0	8	C9orf116
418	0	2.116616	0.962	0.024	0	8	DNAAF1
419	0	2.106114	0.956	0.014	0	8	CAPSL
420	0	2.0749	0.957	0.013	0	8	C11orf88
421	0	2.068878	0.97	0.011	0	8	LRRIQ1
422	0	2.048089	0.965	0.103	0	8	ELF3
423	0	2.043261	0.903	0.031	0	8	C2orf40
424	0	2.028729	0.95	0.014	0	8	SNTN

425	0	2.021513	0.947	0.016	0	8	DYNLRB2
426	0	2.006424	0.957	0.026	0	8	MS4A8
427	0	1.975711	0.976	0.121	0	8	FXYD3
428	0	1.953086	0.972	0.221	0	8	ODF3B
429	0	1.909031	0.905	0.065	0	8	CD24
430	0	1.891533	0.842	0.027	0	8	OMG
431	0	1.889226	0.954	0.014	0	8	ZMYND10
432	0	1.877259	0.954	0.103	0	8	MRPS31
433	0	1.848309	0.954	0.068	0	8	FAM229B
434	0	1.84669	0.939	0.011	0	8	FAM92B
435	0	1.832857	0.932	0.023	0	8	CCDC146
436	0	1.822262	0.929	0.052	0	8	CLDN3
437	0	1.804406	0.97	0.306	0	8	PSENEN
438	0	1.803236	0.936	0.011	0	8	MORN5
439	0	1.79638	0.995	0.742	0	8	GSTP1
440	0	1.792184	0.923	0.014	0	8	FOXJ1
441	0	1.769408	0.92	0.031	0	8	CCDC170
442	0	1.762696	0.932	0.041	0	8	SLC44A4
443	0	1.762571	0.929	0.061	0	8	SMIM22
444	0	1.756007	0.947	0.066	0	8	EFHC1
445	0	1.74975	0.934	0.011	0	8	CCDC78
446	0	1.73595	0.926	0.012	0	8	ROPN1L
447	0	1.728815	0.94	0.093	0	8	CLDN4
448	0	1.724352	0.935	0.05	0	8	TCTEX1D2
449	0	1.720479	0.922	0.012	0	8	AC013264.2
450	0	1.699213	0.925	0.099	0	8	AGR2
451	0	4.490719	0.883	0.43	0	9	SCGB1A1
452	0	4.262397	0.979	0.448	0	9	SCGB3A1
453	0	4.049249	0.882	0.097	0	9	BPIFB1
454	0	3.324823	0.978	0.254	0	9	SLPI
455	0	3.160957	0.956	0.149	0	9	WFDC2
456	0	3.148666	0.856	0.058	0	9	LCN2
457	0	2.806063	0.463	0.028	0	9	MSMB
458	0	2.69451	0.846	0.079	0	9	PIGR
459	0	2.202876	0.791	0.1	0	9	AGR2
460	0	2.189775	0.474	0.041	0	9	SAA1
461	0	2.172288	0.843	0.14	0	9	KRT19
462	0	2.146121	0.632	0.074	0	9	TFF3
463	0	2.10005	0.831	0.098	0	9	CXCL17
464	0	1.879105	0.662	0.125	0	9	CXCL1
465	0	1.810165	0.616	0.074	0	9	MMP7
466	0	1.766923	0.597	0.081	0	9	S100P
467	0	1.682994	0.36	0.017	0	9	SAA2

468	0	1.678524	0.751	0.124	0	9	TACSTD2
469	0	1.631801	0.755	0.102	0	9	KRT7
470	0	1.55432	0.478	0.014	0	9	MUC5B
471	0	1.543508	0.66	0.059	0	9	CEACAM6
472	0	1.484518	0.673	0.036	0	9	KLK11
473	0	1.480665	0.603	0.038	0	9	AQP5
474	0	1.458718	0.776	0.124	0	9	FXYD3
475	0	1.452152	0.723	0.107	0	9	ELF3
476	0	1.450247	0.713	0.174	0	9	MDK
477	0	1.422305	0.644	0.049	0	9	CP
478	0	1.411986	0.779	0.162	0	9	KRT18
479	0	1.406999	0.611	0.069	0	9	TMEM45A
480	0	1.382494	0.678	0.098	0	9	CLDN4
481	0	1.367143	0.667	0.06	0	9	TSPAN8
482	0	1.347923	0.861	0.508	0	9	CYB5A
483	0	1.291994	0.676	0.108	0	9	FOLR1
484	0	1.26259	0.418	0.028	0	9	PSCA
485	0	1.245403	0.639	0.214	0	9	SOX4
486	0	1.239527	0.799	0.342	0	9	MGST1
487	0	1.225798	0.688	0.094	0	9	MUC1
488	0	1.19979	0.697	0.285	0	9	ATP1B1
489	0	1.182372	0.7	0.145	0	9	KRT8
490	0	1.179569	0.554	0.093	0	9	F3
491	0	1.06882	0.629	0.113	0	9	GPRC5A
492	0	1.030874	0.634	0.076	0	9	TSPAN1
493	0	0.994566	0.465	0.063	0	9	ANKRD36C
494	0	0.992789	0.316	0.011	0	9	CXCL6
495	0	0.97061	0.556	0.055	0	9	GSTA1
496	0	0.962114	0.584	0.06	0	9	TMC5
497	0	0.946207	0.619	0.104	0	9	AGR3
498	1.19E-306	1.252167	0.699	0.314	4.01E-302	9	CXCL8
499	8.41E-280	1.074361	0.492	0.153	2.83E-275	9	SFTPB
500	9.87E-216	2.201939	0.473	0.168	3.33E-211	9	SCGB3A2
501	0	3.664768	0.823	0.172	0	10	TAGLN
502	0	3.465221	0.74	0.089	0	10	ACTA2
503	0	3.244179	0.851	0.168	0	10	MYL9
504	0	3.129978	0.779	0.107	0	10	TPM2
505	0	2.529349	0.782	0.166	0	10	CALD1
506	0	2.215376	0.612	0.06	0	10	PPP1R14A
507	0	2.166321	0.821	0.377	0	10	IGFBP7
508	0	2.160634	0.291	0.005	0	10	DES
509	0	2.101044	0.434	0.014	0	10	MYH11
510	0	2.088178	0.443	0.008	0	10	COX4I2

511	0	2.084385	0.345	0.044	0	10	RGS5
512	0	2.069651	0.396	0.005	0	10	HIGD1B
513	0	2.064256	0.345	0.006	0	10	ACTG2
514	0	2.032895	0.42	0.015	0	10	NDUFA4L2
515	0	2.003196	0.641	0.235	0	10	ADIRF
516	0	1.974634	0.456	0.021	0	10	EGFL6
517	0	1.974152	0.633	0.269	0	10	TPM1
518	0	1.926606	0.571	0.083	0	10	BGN
519	0	1.862526	0.525	0.081	0	10	SOD3
520	0	1.828797	0.693	0.325	0	10	GPX3
521	0	1.766167	0.431	0.084	0	10	IGFBP5
522	0	1.706316	0.492	0.069	0	10	MAP1B
523	0	1.628751	0.446	0.05	0	10	CRYAB
524	0	1.538989	0.443	0.067	0	10	MYLK
525	0	1.514991	0.41	0.097	0	10	C11orf96
526	0	1.493737	0.418	0.059	0	10	CRISPLD2
527	0	1.479953	0.673	0.201	0	10	SPARCL1
528	0	1.42024	0.301	0.005	0	10	PLN
529	0	1.380272	0.464	0.1	0	10	TINAGL1
530	0	1.361878	0.449	0.103	0	10	LHFP
531	0	1.356794	0.38	0.029	0	10	PDGFRB
532	0	1.284648	0.453	0.088	0	10	PLAC9
533	0	1.267442	0.381	0.062	0	10	NEXN
534	0	1.256888	0.361	0.077	0	10	COL4A1
535	0	1.230232	0.351	0.066	0	10	ID4
536	0	1.203568	0.407	0.072	0	10	CSRP2
537	0	1.172755	0.374	0.023	0	10	NOTCH3
538	0	1.155489	0.309	0.053	0	10	TCF21
539	6.07E-294	1.440415	0.547	0.178	2.05E-289	10	MT1M
540	5.19E-278	1.367999	0.462	0.147	1.75E-273	10	MFGE8
541	1.06E-276	1.510834	0.395	0.1	3.56E-272	10	MT1A
542	1.10E-255	1.33668	0.61	0.258	3.72E-251	10	SPARC
543	1.64E-241	1.631305	0.619	0.325	5.52E-237	10	SELM
544	1.53E-240	1.336056	0.473	0.169	5.15E-236	10	PRKCDBP
545	1.56E-207	1.185192	0.875	0.781	5.26E-203	10	MT2A
546	6.65E-192	1.722083	0.727	0.628	2.24E-187	10	DSTN
547	5.06E-108	1.158677	0.673	0.62	1.71E-103	10	HSPB1
548	1.18E-72	1.167059	0.475	0.331	3.98E-68	10	TACC1
549	8.13E-60	1.177148	0.372	0.235	2.74E-55	10	CSRP1
550	2.02E-59	1.180574	0.316	0.168	6.80E-55	10	IGFBP2
551	0	3.773775	0.734	0.111	0	11	CCL4L2
552	0	3.455963	0.958	0.069	0	11	GZMB
553	0	3.437004	0.967	0.052	0	11	GNLY

554	0	3.194051	0.975	0.216	0	11	CCL4
555	0	3.069676	0.716	0.171	0	11	CCL3
556	0	3.029319	0.985	0.091	0	11	NKG7
557	0	2.603813	0.529	0.022	0	11	XCL2
558	0	2.498994	0.909	0.043	0	11	KLRD1
559	0	2.468381	0.874	0.041	0	11	PRF1
560	0	2.351241	0.926	0.108	0	11	CST7
561	0	2.175509	0.345	0.017	0	11	IFNG
562	0	2.167411	0.827	0.114	0	11	CCL5
563	0	2.166217	0.87	0.088	0	11	CD7
564	0	2.075245	0.363	0.066	0	11	CCL3L3
565	0	2.025952	0.642	0.017	0	11	FGFBP2
566	0	2.020721	0.772	0.056	0	11	KLRB1
567	0	1.998901	0.855	0.258	0	11	DUSP2
568	0	1.855098	0.626	0.014	0	11	KLRF1
569	0	1.822356	0.867	0.551	0	11	ID2
570	0	1.749556	0.667	0.075	0	11	CTSW
571	0	1.743914	0.266	0.017	0	11	XCL1
572	0	1.682697	0.632	0.04	0	11	CD247
573	0	1.662843	0.63	0.056	0	11	GZMA
574	0	1.649782	0.56	0.035	0	11	GZMH
575	0	1.600152	0.567	0.088	0	11	SPON2
576	0	1.492275	0.876	0.499	0	11	CREM
577	0	1.457564	0.523	0.065	0	11	GNG2
578	0	1.417824	0.757	0.255	0	11	ISG20
579	0	1.365264	0.304	0.014	0	11	KLRC1
580	0	1.356878	0.629	0.149	0	11	SYTL3
581	0	1.337449	0.494	0.038	0	11	GZMM
582	0	1.257145	0.344	0.003	0	11	SH2D1B
583	0	1.187649	0.99	0.769	0	11	SRGN
584	0	1.140686	0.37	0.031	0	11	SH2D2A
585	0	1.095443	0.323	0.04	0	11	TNFRSF18
586	0	1.060763	0.389	0.071	0	11	PTPN7
587	0	1.043806	0.653	0.168	0	11	CD69
588	4.72E-300	1.07296	0.315	0.058	1.59E-295	11	CLIC3
589	2.10E-297	1.288187	0.699	0.329	7.07E-293	11	FCGR3A
590	2.36E-280	1.076249	0.503	0.153	7.96E-276	11	FYN
591	1.70E-258	1.823092	0.6	0.287	5.72E-254	11	CMC1
592	3.23E-244	1.115381	0.771	0.458	1.09E-239	11	DDIT4
593	2.37E-237	1.452521	0.715	0.47	7.99E-233	11	REL
594	2.12E-230	1.274884	0.627	0.324	7.13E-226	11	SLA
595	3.69E-223	1.054194	0.439	0.145	1.24E-218	11	IL2RG
596	9.68E-220	1.293774	0.777	0.495	3.26E-215	11	AREG

597	1.00E-186	1.047752	0.406	0.134	3.38E-182	11	TUBA4A
598	1.24E-185	1.197843	0.449	0.18	4.16E-181	11	CHST12
599	6.45E-184	1.328069	0.503	0.239	2.17E-179	11	HAVCR2
600	1.47E-152	1.103409	0.621	0.403	4.96E-148	11	NR4A2
601	0	5.323927	0.984	0.229	0	12	SFTPC
602	0	4.372407	0.997	0.084	0	12	SFTPA1
603	0	4.270162	0.987	0.096	0	12	SFTPA2
604	0	3.154742	0.996	0.145	0	12	SFTPB
605	0	3.100708	0.986	0.054	0	12	NAPSA
606	0	2.966108	0.904	0.019	0	12	PGC
607	0	2.713525	0.969	0.029	0	12	SFTPD
608	0	2.426801	0.966	0.059	0	12	SFTA2
609	0	2.205037	0.931	0.073	0	12	SLC34A2
610	0	1.975242	0.957	0.165	0	12	HOPX
611	0	1.741286	0.924	0.094	0	12	MUC1
612	0	1.663259	0.912	0.063	0	12	SFTA3
613	0	1.662311	0.988	0.26	0	12	SLPI
614	0	1.576752	0.927	0.432	0	12	CTSH
615	0	1.556599	0.997	0.729	0	12	NPC2
616	0	1.544156	0.812	0.019	0	12	ABCA3
617	0	1.532345	0.79	0.026	0	12	PEBP4
618	0	1.522624	0.886	0.073	0	12	S100A14
619	0	1.514718	0.811	0.048	0	12	LRRK2
620	0	1.511592	0.85	0.018	0	12	LAMP3
621	0	1.508055	0.91	0.103	0	12	CXCL17
622	0	1.480263	0.947	0.342	0	12	MGST1
623	0	1.448839	0.971	0.508	0	12	CYB5A
624	0	1.40122	0.84	0.106	0	12	LPCAT1
625	0	1.38871	0.871	0.362	0	12	SERPINA1
626	0	1.332952	0.89	0.304	0	12	SDC4
627	0	1.312301	0.818	0.174	0	12	C8orf4
628	0	1.28542	0.713	0.01	0	12	C4BPA
629	0	1.28205	0.854	0.166	0	12	AK1
630	0	1.28059	0.579	0.014	0	12	SLC6A14
631	0	1.267243	0.828	0.076	0	12	C16orf89
632	0	1.264813	0.735	0.092	0	12	C11orf96
633	0	1.258945	0.711	0.027	0	12	WIF1
634	0	1.243172	0.259	0.001	0	12	FGG
635	0	1.20756	0.675	0.017	0	12	GKN2
636	0	1.200272	0.736	0.033	0	12	SDR16C5
637	0	1.193453	0.849	0.086	0	12	PIGR
638	0	1.181938	0.805	0.112	0	12	SLC39A8
639	0	1.17838	0.856	0.255	0	12	AQP3

640	0	1.163301	0.811	0.116	0	12	DHCR24
641	0	1.15321	0.806	0.076	0	12	MALL
642	0	1.148028	0.732	0.027	0	12	ALPL
643	0	1.132576	0.873	0.165	0	12	KRT18
644	0	1.129846	0.6	0.004	0	12	PLA2G1B
645	0	1.118635	0.723	0.047	0	12	MFSD2A
646	0	1.113705	0.531	0.01	0	12	DMBT1
647	0	1.105101	0.925	0.277	0	12	RNASE1
648	0	1.049392	0.692	0.043	0	12	FASN
649	0	1.041417	0.741	0.069	0	12	FGGY
650	1.99E-210	1.178284	0.819	0.455	6.72E-206	12	CXCL2
651	0	3.890448	0.937	0.026	0	13	TPSAB1
652	0	3.804612	0.926	0.025	0	13	TPSB2
653	0	2.869323	0.865	0.164	0	13	CD69
654	0	2.82583	0.84	0.015	0	13	CPA3
655	0	2.55067	0.357	0.013	0	13	CTSG
656	0	2.439558	0.821	0.067	0	13	HPGDS
657	0	2.156277	0.875	0.38	0	13	RGS2
658	0	2.116755	0.721	0.011	0	13	MS4A2
659	0	2.112319	0.702	0.021	0	13	RGS13
660	0	2.01453	0.649	0.01	0	13	C1orf186
661	0	1.941712	0.936	0.492	0	13	AREG
662	0	1.92384	0.884	0.358	0	13	RGS1
663	0	1.814809	0.656	0.222	0	13	HPGD
664	0	1.733062	0.633	0.099	0	13	VWA5A
665	0	1.72674	0.589	0.01	0	13	KIT
666	0	1.651731	0.634	0.168	0	13	GPR65
667	0	1.639017	0.493	0.025	0	13	GATA2
668	0	1.630589	0.604	0.079	0	13	LTC4S
669	0	1.604261	0.514	0.018	0	13	FCER1A
670	0	1.533538	0.594	0.026	0	13	IL1RL1
671	0	1.512842	0.888	0.615	0	13	LAPTM4A
672	0	1.509781	0.515	0.007	0	13	SLC18A2
673	0	1.499832	0.539	0.041	0	13	MAOB
674	0	1.412176	0.476	0.008	0	13	RP11-354E11.2
675	0	1.306827	0.968	0.77	0	13	SRGN
676	0	1.237542	0.371	0.005	0	13	HDC
677	0	1.199187	0.591	0.172	0	13	RHOH
678	0	1.117346	0.506	0.124	0	13	BATF
679	0	1.007294	0.378	0.048	0	13	STXBP6
680	5.72E-295	1.031985	0.359	0.072	1.93E-290	13	SMYD3
681	5.40E-284	1.132581	0.935	0.819	1.82E-279	13	NFKBIA
682	8.01E-280	1.701334	0.742	0.354	2.70E-275	13	BIRC3

683	3.76E-279	1.445863	0.666	0.301	1.27E-274	13	CPM
684	3.24E-268	1.361942	0.598	0.218	1.09E-263	13	SOCS1
685	1.06E-266	1.045288	0.378	0.087	3.58E-262	13	SLC26A2
686	3.28E-253	1.443754	0.846	0.65	1.10E-248	13	LMNA
687	4.88E-250	1.167025	0.897	0.722	1.64E-245	13	TSC22D3
688	1.30E-237	1.316389	0.785	0.459	4.39E-233	13	DDIT4
689	7.45E-217	1.209638	0.707	0.421	2.51E-212	13	CKLF
690	4.77E-215	1.148382	0.731	0.405	1.61E-210	13	SAMSN1
691	3.89E-214	1.070811	0.898	0.764	1.31E-209	13	ANXA1
692	6.14E-188	1.042586	0.748	0.461	2.07E-183	13	TNFAIP3
693	6.00E-182	1.215386	0.78	0.534	2.02E-177	13	PLIN2
694	3.91E-170	1.09465	0.786	0.669	1.32E-165	13	SELK
695	5.19E-163	1.020292	0.557	0.276	1.75E-158	13	RAC2
696	2.18E-107	1.053772	0.316	0.116	7.33E-103	13	PTGS2
697	9.14E-102	1.25561	0.606	0.413	3.08E-97	13	TSC22D1
698	1.56E-73	1.015007	0.532	0.388	5.24E-69	13	SYAP1
699	1.69E-35	1.018426	0.492	0.419	5.69E-31	13	TUBA1A
700	2.23E-27	1.00481	0.439	0.393	7.53E-23	13	FDX1
701	0	3.472053	0.967	0.051	0	14	KRT17
702	0	2.896083	0.908	0.031	0	14	KRT15
703	0	2.828361	0.963	0.064	0	14	S100A2
704	0	2.252237	0.85	0.009	0	14	KRT5
705	0	2.207811	0.98	0.147	0	14	KRT19
706	0	1.897686	0.949	0.194	0	14	ID1
707	0	1.800893	0.946	0.129	0	14	TACSTD2
708	0	1.782178	0.971	0.153	0	14	PERP
709	0	1.774302	0.949	0.256	0	14	AQP3
710	0	1.652083	0.304	0.012	0	14	MMP1
711	0	1.623667	0.946	0.167	0	14	KRT18
712	0	1.491455	0.833	0.206	0	14	ERRFI1
713	0	1.361892	0.962	0.13	0	14	FXYD3
714	0	1.360108	0.773	0.096	0	14	F3
715	0	1.353407	0.739	0.113	0	14	HMGB3
716	0	1.345877	0.922	0.149	0	14	KRT8
717	0	1.317211	0.812	0.038	0	14	SFN
718	0	1.262405	0.911	0.287	0	14	ATP1B1
719	0	1.252644	0.881	0.113	0	14	ELF3
720	0	1.24103	0.866	0.116	0	14	GPRC5A
721	0	1.239387	0.99	0.51	0	14	CYB5A
722	0	1.216023	0.821	0.102	0	14	BCAM
723	0	1.198223	0.664	0.02	0	14	ALDH3A1
724	0	1.174894	0.966	0.472	0	14	ZFP36L1
725	0	1.157286	0.962	0.358	0	14	SPINT2

726	0	1.134964	0.691	0.077	0	14	FBXO32
727	0	1.12798	0.85	0.16	0	14	IGFBP2
728	0	1.12416	0.312	0.005	0	14	KRT6A
729	0	1.117266	0.762	0.104	0	14	CLDN4
730	0	1.115542	0.792	0.059	0	14	FHL2
731	0	1.110553	0.903	0.331	0	14	EGR1
732	0	1.107844	0.79	0.078	0	14	S100A14
733	0	1.107841	0.661	0.176	0	14	RPS4Y1
734	0	1.103168	0.786	0.11	0	14	KRT7
735	0	1.087943	0.843	0.134	0	14	MPZL2
736	0	1.079456	0.592	0.024	0	14	SYT8
737	0	1.066357	0.631	0.085	0	14	IGFBP6
738	0	1.03154	0.996	0.744	0	14	GSTP1
739	0	1.027106	0.79	0.058	0	14	SDC1
740	0	1.024523	0.787	0.092	0	14	KLF5
741	0	1.020077	0.868	0.181	0	14	SERPINF1
742	0	0.993167	0.745	0.044	0	14	LAMB3
743	0	0.975435	0.772	0.061	0	14	EHF
744	0	0.969788	0.778	0.217	0	14	SOX4
745	5.61E-280	1.134453	0.522	0.117	1.89E-275	14	GDF15
746	2.17E-271	0.963974	0.985	0.591	7.30E-267	14	CD9
747	1.48E-250	1.027422	0.949	0.531	4.99E-246	14	CEBPD
748	2.08E-236	0.985661	0.941	0.55	7.01E-232	14	FOSB
749	6.05E-235	1.122153	0.96	0.586	2.04E-230	14	JUN
750	1.87E-194	0.981058	0.822	0.4	6.30E-190	14	ATF3
751	0	1.850965	0.928	0.298	0	15	STMN1
752	0	1.761689	0.839	0.021	0	15	KIAA0101
753	0	1.612102	0.987	0.717	0	15	TUBA1B
754	0	1.553593	0.946	0.553	0	15	TUBB
755	0	1.54475	0.97	0.698	0	15	H2AFZ
756	0	1.445625	0.954	0.61	0	15	HMGN2
757	0	1.394065	0.648	0.155	0	15	HIST1H4C
758	0	1.321353	0.735	0.024	0	15	TYMS
759	0	1.291878	0.736	0.025	0	15	TK1
760	0	1.275609	0.617	0.005	0	15	UBE2C
761	0	1.227988	0.66	0.08	0	15	PTTG1
762	0	1.138172	0.833	0.226	0	15	CKS1B
763	0	1.093486	0.56	0.004	0	15	RRM2
764	0	1.064451	0.613	0.017	0	15	CDK1
765	0	0.965287	0.642	0.17	0	15	PCNA
766	0	0.921822	0.601	0.004	0	15	BIRC5
767	0	0.910329	0.571	0.019	0	15	CDKN3
768	0	0.904273	0.684	0.104	0	15	TMEM106C

769	0	0.895554	0.717	0.108	0	15	CENPW
770	0	0.884172	0.522	0.005	0	15	TOP2A
771	0	0.873246	0.563	0.02	0	15	NUSAP1
772	0	0.843868	0.545	0.002	0	15	MKI67
773	0	0.778296	0.677	0.145	0	15	SMC4
774	0	0.748627	0.587	0.038	0	15	CENPM
775	0	0.738741	0.502	0.011	0	15	CENPF
776	0	0.684304	0.652	0.125	0	15	DTYMK
777	0	0.682037	0.457	0.009	0	15	CDT1
778	0	0.681329	0.594	0.025	0	15	ZWINT
779	0	0.668889	0.619	0.079	0	15	SMC2
780	9.35E-253	0.80897	0.753	0.278	3.15E-248	15	IDH2
781	1.10E-242	0.997325	0.966	0.78	3.71E-238	15	HMGB1
782	9.17E-242	0.949493	0.882	0.493	3.09E-237	15	H2AFV
783	3.54E-240	0.870003	0.871	0.491	1.19E-235	15	DEK
784	2.19E-236	0.678286	0.769	0.299	7.37E-232	15	RPA3
785	2.41E-217	0.752181	0.745	0.275	8.13E-213	15	CKS2
786	2.15E-216	0.889167	0.887	0.527	7.24E-212	15	ANP32B
787	4.59E-216	0.976735	0.824	0.416	1.55E-211	15	DUT
788	4.64E-200	1.022007	0.876	0.451	1.56E-195	15	HMGB2
789	3.65E-194	0.678309	0.814	0.405	1.23E-189	15	LSM4
790	3.84E-170	0.751156	0.828	0.478	1.29E-165	15	RANBP1
791	2.06E-162	0.794023	0.777	0.376	6.94E-158	15	TUBA1C
792	2.88E-155	0.681059	0.855	0.488	9.71E-151	15	NUCKS1
793	7.17E-137	0.835755	0.773	0.375	2.42E-132	15	C1QB
794	4.09E-121	0.808285	0.76	0.426	1.38E-116	15	CTSZ
795	1.38E-119	0.71492	0.772	0.384	4.66E-115	15	C1QA
796	1.55E-100	0.758067	0.637	0.322	5.24E-96	15	FN1
797	1.21E-98	1.0153	0.66	0.351	4.06E-94	15	CCL18
798	5.25E-98	0.673384	0.78	0.457	1.77E-93	15	APOC1
799	1.04E-89	0.685794	0.7	0.378	3.49E-85	15	FBP1
800	6.31E-37	0.745716	0.339	0.17	2.13E-32	15	SPP1
801	0	3.447716	0.433	0.015	0	16	CCL17
802	0	2.140945	0.999	0.611	0	16	HLA-DPB1
803	0	1.971462	0.982	0.416	0	16	HLA-DQA1
804	0	1.887278	0.999	0.627	0	16	HLA-DPA1
805	0	1.811847	0.941	0.254	0	16	GPR183
806	0	1.809323	0.99	0.508	0	16	HLA-DQB1
807	0	1.777036	1	0.777	0	16	CD74
808	0	1.741819	1	0.715	0	16	HLA-DRA
809	0	1.587672	0.396	0.021	0	16	S100B
810	0	1.584781	0.994	0.629	0	16	HLA-DRB1
811	0	1.527395	0.928	0.49	0	16	HLA-DRB5

812	0	1.294044	0.804	0.249	0	16	MS4A6A
813	0	1.20964	0.505	0.047	0	16	IL1R2
814	0	1.163356	0.539	0.029	0	16	CLEC10A
815	0	1.144524	0.428	0.022	0	16	FCER1A
816	0	1.114326	0.702	0.153	0	16	RNASE6
817	0	1.063878	0.549	0.035	0	16	PKIB
818	0	1.056063	0.878	0.338	0	16	HLA-DMB
819	0	1.050287	0.565	0.082	0	16	FCGR2B
820	0	1.045722	0.704	0.183	0	16	DUSP4
821	0	1.037415	0.721	0.122	0	16	CSF2RA
822	0	1.02976	0.357	0.004	0	16	CD1C
823	0	0.931487	0.683	0.166	0	16	CD86
824	0	0.816821	0.651	0.144	0	16	SERPINB9
825	0	0.802017	0.281	0.002	0	16	CD1E
826	0	0.801144	0.54	0.116	0	16	FAM26F
827	9.36E-308	1.061562	0.96	0.473	3.16E-303	16	HLA-DMA
828	4.17E-298	0.834294	0.71	0.211	1.41E-293	16	MXD1
829	5.46E-295	1.284339	0.587	0.146	1.84E-290	16	HLA-DQA2
830	3.92E-291	1.487391	0.758	0.273	1.32E-286	16	INSIG1
831	7.30E-280	1.49722	0.915	0.495	2.46E-275	16	AREG
832	1.09E-272	0.890347	0.675	0.205	3.67E-268	16	NR4A3
833	3.73E-271	0.982688	0.598	0.165	1.26E-266	16	AXL
834	5.88E-259	1.236616	0.775	0.304	1.98E-254	16	CD83
835	1.88E-250	0.875502	0.888	0.409	6.33E-246	16	RGS10
836	2.91E-249	1.030676	0.871	0.383	9.79E-245	16	RGS2
837	3.39E-243	0.851779	0.898	0.366	1.14E-238	16	LST1
838	9.17E-227	0.811816	0.567	0.167	3.09E-222	16	JAML
839	1.53E-225	1.205467	0.975	0.727	5.14E-221	16	CST3
840	3.83E-219	0.99717	0.878	0.469	1.29E-214	16	REL
841	8.73E-219	1.161611	0.638	0.212	2.94E-214	16	C15orf48
842	2.82E-213	0.845785	0.947	0.543	9.50E-209	16	TYMP
843	1.97E-202	0.812363	0.991	0.858	6.64E-198	16	SAT1
844	7.43E-173	0.867082	0.555	0.194	2.50E-168	16	CPVL
845	1.44E-168	0.95705	0.888	0.59	4.84E-164	16	HERPUD1
846	5.99E-166	0.885181	0.764	0.384	2.02E-161	16	SGK1
847	1.58E-151	0.8143	0.842	0.454	5.31E-147	16	PLAUR
848	5.66E-144	0.812112	0.817	0.463	1.91E-139	16	YWHAH
849	9.96E-104	0.809735	0.475	0.194	3.36E-99	16	EREG
850	1.12E-65	1.131102	0.417	0.196	3.76E-61	16	G0S2
851	0	5.556021	0.971	0.046	0	17	CCL21
852	0	2.890234	0.93	0.077	0	17	TFF3
853	0	2.377837	0.916	0.171	0	17	GNG11
854	0	2.315694	0.799	0.034	0	17	MMRN1

855	0	2.117619	0.864	0.151	0	17	SDPR
856	0	2.025508	0.888	0.235	0	17	TFPI
857	0	1.985575	0.876	0.236	0	17	ADIRF
858	0	1.96793	0.602	0.1	0	17	RGS16
859	0	1.904046	0.718	0.051	0	17	SNCG
860	0	1.868714	0.951	0.38	0	17	IGFBP7
861	0	1.860284	0.715	0.098	0	17	AKAP12
862	0	1.852505	0.372	0.005	0	17	NTS
863	0	1.811947	0.787	0.096	0	17	PPFIBP1
864	0	1.742025	0.801	0.135	0	17	ECSCR.1
865	0	1.655536	0.536	0.024	0	17	LYVE1
866	0	1.557951	0.83	0.131	0	17	CLDN5
867	0	1.465526	0.831	0.366	0	17	APP
868	0	1.388135	0.721	0.106	0	17	RAMP2
869	0	1.383858	0.783	0.24	0	17	CLU
870	0	1.354539	0.854	0.258	0	17	NNMT
871	0	1.264331	0.63	0.112	0	17	FXYD6
872	0	1.252888	0.709	0.19	0	17	HYAL2
873	0	1.227764	0.54	0.039	0	17	PDPN
874	0	1.179704	0.851	0.214	0	17	TIMP3
875	0	1.177559	0.586	0.14	0	17	PROCR
876	0	1.166126	0.524	0.05	0	17	APOLD1
877	0	1.161172	0.582	0.039	0	17	KANK3
878	0	1.160954	0.479	0.03	0	17	TM4SF18
879	0	1.145061	0.638	0.12	0	17	EGFL7
880	0	1.122693	0.726	0.209	0	17	CNN3
881	0	1.11806	0.789	0.213	0	17	CAV1
882	0	1.067344	0.528	0.046	0	17	LAYN
883	0	1.041682	0.496	0.054	0	17	GGT5
884	1.27E-296	1.092597	0.598	0.152	4.27E-292	17	MTUS1
885	1.08E-287	1.040826	0.782	0.244	3.65E-283	17	TM4SF1
886	1.04E-283	1.484767	0.527	0.118	3.51E-279	17	EFEMP1
887	4.89E-264	1.043553	0.688	0.214	1.65E-259	17	CRIP2
888	4.02E-248	1.237177	0.92	0.617	1.35E-243	17	HSPB1
889	3.43E-243	1.081835	0.54	0.14	1.16E-238	17	PLPP1
890	1.07E-236	1.290169	0.798	0.404	3.60E-232	17	GYPC
891	3.25E-221	1.029307	0.934	0.59	1.09E-216	17	IFITM3
892	5.20E-211	1.15665	0.794	0.46	1.75E-206	17	RAB11A
893	1.08E-208	1.092649	0.891	0.59	3.65E-204	17	CD59
894	2.54E-187	1.128724	0.584	0.197	8.55E-183	17	MYC
895	4.25E-184	1.265686	0.588	0.203	1.43E-179	17	HES1
896	1.36E-169	1.027096	0.676	0.334	4.58E-165	17	MGST2
897	4.24E-165	1.355213	0.372	0.089	1.43E-160	17	IGFBP5

898	2.42E-125	1.133136	0.763	0.532	8.15E-121	17	KLF4
899	1.55E-123	1.031696	0.73	0.462	5.23E-119	17	ARL4A
900	1.14E-98	1.29347	0.676	0.412	3.84E-94	17	HSPA1A
901	0	3.387453	0.964	0.033	0	18	TPSAB1
902	0	3.355273	0.955	0.032	0	18	TPSB2
903	0	2.546954	0.482	0.014	0	18	CTSG
904	0	2.441235	0.749	0.023	0	18	CPA3
905	0	2.202356	0.713	0.075	0	18	HPGDS
906	0	2.031603	0.613	0.028	0	18	RGS13
907	0	2.030224	0.631	0.019	0	18	MS4A2
908	0	1.955578	0.731	0.172	0	18	CD69
909	0	1.634087	0.491	0.085	0	18	LTC4S
910	0	1.594493	0.428	0.019	0	18	C1orf186
911	0	1.518637	0.422	0.024	0	18	FCER1A
912	0	1.470946	0.419	0.018	0	18	KIT
913	0	1.359718	0.358	0.013	0	18	SLC18A2
914	0	1.353823	0.354	0.014	0	18	RP11-354E11.2
915	0	1.18498	0.41	0.034	0	18	IL1RL1
916	0	1.014958	0.251	0.01	0	18	HDC
917	1.10E-300	1.231865	0.358	0.048	3.71E-296	18	MAOB
918	1.94E-277	1.720497	0.861	0.363	6.53E-273	18	RGS1
919	1.31E-250	1.596012	0.478	0.106	4.40E-246	18	VWA5A
920	1.87E-240	1.838859	0.8	0.385	6.30E-236	18	RGS2
921	2.20E-239	0.999627	0.267	0.032	7.42E-235	18	GATA2
922	2.86E-208	1.124907	0.96	0.772	9.65E-204	18	SRGN
923	9.20E-183	1.410145	0.858	0.497	3.10E-178	18	AREG
924	3.44E-179	1.397073	0.831	0.618	1.16E-174	18	LAPTM4A
925	2.98E-169	1.219184	0.893	0.723	1.00E-164	18	TSC22D3
926	8.99E-155	1.617974	0.703	0.358	3.03E-150	18	BIRC3
927	6.61E-151	1.13271	0.906	0.82	2.23E-146	18	NFKBIA
928	3.32E-146	0.98036	0.849	0.473	1.12E-141	18	ALOX5AP
929	3.00E-143	1.496102	0.555	0.222	1.01E-138	18	SOCS1
930	2.42E-137	1.52256	0.801	0.652	8.14E-133	18	LMNA
931	1.67E-128	1.180954	0.496	0.177	5.61E-124	18	RHOH
932	6.37E-124	1.459339	0.588	0.305	2.15E-119	18	CPM
933	1.18E-123	1.133428	0.869	0.766	3.96E-119	18	ANXA1
934	1.14E-122	1.357041	0.758	0.537	3.82E-118	18	PLIN2
935	1.81E-120	1.386469	0.466	0.174	6.10E-116	18	GPR65
936	3.72E-111	0.967476	0.406	0.129	1.25E-106	18	BATF
937	5.19E-106	1.162902	0.758	0.67	1.75E-101	18	SELK
938	1.68E-99	1.268934	0.69	0.463	5.65E-95	18	DDIT4
939	1.42E-98	1.257351	0.636	0.424	4.80E-94	18	CKLF
940	5.84E-90	1.010891	0.297	0.09	1.97E-85	18	SLC26A2

941	6.58E-86	1.326422	0.472	0.228	2.22E-81	18	HPGD
942	9.79E-77	1.585087	0.603	0.414	3.30E-72	18	TSC22D1
943	4.42E-74	0.980392	0.621	0.409	1.49E-69	18	SAMSN1
944	4.30E-64	0.950039	0.261	0.09	1.45E-59	18	CNRIP1
945	5.59E-61	0.939317	0.625	0.465	1.88E-56	18	TNFAIP3
946	7.24E-48	0.991997	0.364	0.19	2.44E-43	18	TMEM176B
947	3.07E-29	1.238333	0.497	0.42	1.03E-24	18	TUBA1A
948	1.70E-24	0.946981	0.31	0.204	5.72E-20	18	CTNNBL1
949	6.32E-22	1.172847	0.439	0.394	2.13E-17	18	FDX1
950	5.02E-18	1.006035	0.431	0.391	1.69E-13	18	SYAP1
951	0	2.219371	0.678	0.006	0	19	CD79A
952	0	1.702593	0.552	0.002	0	19	MS4A1
953	0	1.548814	0.564	0.07	0	19	LTB
954	0	1.416858	0.315	0.011	0	19	IGHM
955	0	1.300752	0.41	0.025	0	19	CCR7
956	0	1.296693	0.406	0.003	0	19	TNFRSF13C
957	0	1.209115	0.388	0.014	0	19	BANK1
958	0	1.162026	0.386	0.016	0	19	LY9
959	0	0.979493	0.299	0.002	0	19	VPREB3
960	0	0.889742	0.284	0.001	0	19	BLK
961	1.14E-294	0.917511	0.271	0.027	3.86E-290	19	CD79B
962	1.04E-288	0.840338	0.997	0.985	3.50E-284	19	RPL13A
963	1.60E-286	0.813217	0.284	0.031	5.40E-282	19	GNG7
964	9.54E-278	0.887025	0.989	0.967	3.22E-273	19	RPS23
965	1.50E-263	0.912713	0.986	0.964	5.07E-259	19	RPL23A
966	3.22E-263	0.831664	0.995	0.98	1.09E-258	19	RPS18
967	2.74E-262	0.923747	0.986	0.977	9.23E-258	19	RPS27
968	3.39E-261	0.884652	0.982	0.957	1.14E-256	19	RPS8
969	4.38E-256	0.89409	0.986	0.972	1.48E-251	19	RPLP2
970	1.32E-254	0.797251	0.992	0.97	4.45E-250	19	RPL11
971	2.30E-248	0.818858	0.988	0.958	7.76E-244	19	RPL30
972	5.94E-242	0.785327	0.983	0.981	2.00E-237	19	RPL21
973	1.63E-229	0.787143	0.986	0.961	5.49E-225	19	RPS15A
974	1.39E-225	0.835608	0.956	0.928	4.68E-221	19	RPS11
975	5.40E-221	0.813519	0.264	0.035	1.82E-216	19	ADAM28
976	2.88E-204	1.093082	0.395	0.084	9.71E-200	19	ARHGAP24
977	3.81E-203	0.85104	0.964	0.931	1.28E-198	19	RPS29
978	5.45E-202	1.34815	0.784	0.398	1.84E-197	19	CD37
979	2.06E-198	0.783343	0.97	0.931	6.94E-194	19	RPS5
980	3.09E-196	0.978871	0.932	0.843	1.04E-191	19	EEF1B2
981	1.02E-188	1.279139	0.839	0.439	3.44E-184	19	CXCR4
982	4.09E-187	0.866107	0.944	0.902	1.38E-182	19	RPSA
983	1.57E-180	0.944158	0.951	0.778	5.29E-176	19	CD74

984	2.27E-146	1.021941	0.599	0.22	7.64E-142	19	CD48
985	2.40E-138	0.865654	0.313	0.071	8.09E-134	19	RP1-313I6.12
986	1.70E-124	1.200775	0.299	0.071	5.72E-120	19	IGLC2
987	2.22E-120	1.349807	0.602	0.308	7.47E-116	19	CD83
988	7.63E-120	0.834886	0.625	0.262	2.57E-115	19	ISG20
989	2.70E-119	1.056477	0.869	0.858	9.09E-115	19	BTG1
990	2.33E-109	0.823457	0.84	0.561	7.86E-105	19	LAPTM5
991	2.38E-103	0.826916	0.482	0.177	8.03E-99	19	RHOH
992	2.61E-100	0.800903	0.553	0.232	8.81E-96	19	CORO1A
993	8.38E-89	1.23925	0.555	0.262	2.82E-84	19	GPR183
994	6.30E-84	0.808796	0.745	0.513	2.12E-79	19	HLA-DQB1
995	1.22E-71	0.917077	0.669	0.48	4.12E-67	19	EZR
996	3.70E-71	1.059391	0.707	0.593	1.25E-66	19	HERPUD1
997	7.79E-57	0.954491	0.568	0.416	2.63E-52	19	YPEL5
998	9.04E-52	0.864819	0.415	0.234	3.05E-47	19	IRF8
999	9.09E-45	0.806841	0.561	0.407	3.06E-40	19	NR4A2
1000	8.53E-18	0.86891	0.368	0.299	2.87E-13	19	SMIM14
1001	0	3.277173	0.895	0.092	0	20	CAPS
1002	0	3.132083	0.88	0.145	0	20	TPPP3
1003	0	3.096512	0.81	0.045	0	20	C20orf85
1004	0	2.948751	0.764	0.051	0	20	C9orf24
1005	0	2.903869	0.705	0.041	0	20	C1orf194
1006	0	2.867083	0.681	0.044	0	20	RSPH1
1007	0	2.721842	0.65	0.04	0	20	FAM183A
1008	0	2.677554	0.615	0.05	0	20	PIFO
1009	0	2.62045	0.505	0.045	0	20	OMG
1010	0	2.615176	0.554	0.066	0	20	GSTA1
1011	0	2.607342	0.582	0.033	0	20	SNTN
1012	0	2.601966	0.626	0.05	0	20	TMEM190
1013	0	2.516688	0.549	0.034	0	20	CAPSL
1014	0	2.513788	0.56	0.04	0	20	C5orf49
1015	0	2.487391	0.586	0.046	0	20	C9orf116
1016	0	2.423408	0.534	0.034	0	20	C11orf88
1017	0	2.313355	0.484	0.03	0	20	CFAP126
1018	0	2.250553	0.477	0.032	0	20	ROPN1L
1019	0	2.248654	0.47	0.036	0	20	DYNLRB2
1020	0	2.242854	0.363	0.026	0	20	RP11-356K23.1
1021	0	2.197861	0.431	0.032	0	20	MORN5
1022	0	2.12999	0.449	0.036	0	20	ZMYND10
1023	0	2.073979	0.42	0.032	0	20	FAM92B
1024	0	2.001971	0.379	0.036	0	20	RP11-295M3.4
1025	0	1.949663	0.357	0.034	0	20	C11orf70
1026	0	1.928016	0.37	0.028	0	20	TEKT1

1027	0	1.917461	0.354	0.031	0	20	FAM216B
1028	2.57E-307	1.877083	0.35	0.033	8.66E-303	20	CCDC78
1029	1.90E-299	1.883004	0.35	0.033	6.40E-295	20	AC013264.2
1030	1.21E-282	2.18207	0.304	0.027	4.08E-278	20	GSTA2
1031	5.95E-262	2.702657	0.67	0.163	2.01E-257	20	MORN2
1032	3.86E-245	2.761327	0.746	0.234	1.30E-240	20	CETN2
1033	4.17E-223	2.001776	0.435	0.07	1.41E-218	20	TCTEX1D2
1034	1.60E-220	2.189246	0.492	0.09	5.39E-216	20	TSPAN1
1035	1.02E-218	2.199901	0.47	0.084	3.43E-214	20	CD24
1036	7.05E-208	2.059908	0.923	0.747	2.37E-203	20	GSTP1
1037	1.23E-206	2.027884	0.416	0.069	4.14E-202	20	SPA17
1038	1.03E-191	2.089156	0.497	0.107	3.48E-187	20	C12orf75
1039	1.37E-178	2.090177	0.51	0.116	4.62E-174	20	AGR3
1040	2.29E-169	2.049753	0.431	0.089	7.71E-165	20	FAM229B
1041	3.56E-163	2.399165	0.832	0.587	1.20E-158	20	PRDX5
1042	5.36E-159	1.992012	0.853	0.736	1.81E-154	20	DYNLL1
1043	4.92E-129	2.160419	0.449	0.122	1.66E-124	20	MRPS31
1044	2.12E-126	1.903871	0.376	0.086	7.15E-122	20	LRRC23
1045	9.12E-98	2.156902	0.543	0.238	3.07E-93	20	ODF3B
1046	6.38E-72	1.902369	0.665	0.542	2.15E-67	20	ATPIF1
1047	2.10E-67	1.897544	0.477	0.23	7.08E-63	20	IFT57
1048	1.00E-62	1.945748	0.637	0.531	3.39E-58	20	DYNLT1
1049	5.10E-62	1.965204	0.63	0.521	1.72E-57	20	UFC1
1050	6.73E-54	2.142079	0.593	0.47	2.27E-49	20	TUBB4B
1051	7.67E-221	2.304424	0.68	0.157	2.58E-216	21	KRT19
1052	2.58E-202	2.680017	0.432	0.064	8.69E-198	21	KRT17
1053	8.21E-129	2.383962	0.812	0.461	2.77E-124	21	SCGB3A1
1054	5.25E-127	2.756894	0.383	0.076	1.77E-122	21	S100A2
1055	1.58E-120	2.165167	0.284	0.044	5.32E-116	21	KRT15
1056	2.88E-105	0.757236	0.984	0.987	9.69E-101	21	RPLP1
1057	8.51E-102	0.748436	0.997	0.991	2.87E-97	21	EEF1A1
1058	1.22E-100	0.840096	0.943	0.975	4.11E-96	21	RPS6
1059	2.96E-92	1.835625	0.516	0.171	9.96E-88	21	WFDC2
1060	1.41E-83	1.941049	0.62	0.274	4.75E-79	21	SLPI
1061	9.11E-75	0.61925	0.969	0.986	3.07E-70	21	RPL13A
1062	5.90E-73	2.263313	0.391	0.119	1.99E-68	21	BPIFB1
1063	6.17E-72	0.6932	0.945	0.967	2.08E-67	21	RPL3
1064	1.87E-71	0.823076	0.872	0.936	6.29E-67	21	RPL7A
1065	7.38E-66	1.470564	0.411	0.142	2.49E-61	21	FXYD3
1066	3.69E-65	0.798749	0.867	0.943	1.24E-60	21	RPL10A
1067	1.20E-62	1.852671	0.651	0.442	4.05E-58	21	SCGB1A1
1068	3.91E-59	0.652307	0.917	0.971	1.32E-54	21	RPS3A
1069	2.19E-55	0.847024	0.802	0.915	7.38E-51	21	RPLP0

1070	2.94E-51	1.57773	0.341	0.119	9.92E-47	21	CXCL17
1071	4.69E-50	0.842199	0.805	0.917	1.58E-45	21	RPL5
1072	1.02E-49	0.709447	0.87	0.956	3.45E-45	21	RPS17
1073	2.37E-49	1.201153	0.724	0.749	7.98E-45	21	GSTP1
1074	2.07E-46	1.625643	0.404	0.179	6.98E-42	21	KRT18
1075	1.55E-44	1.585641	0.63	0.518	5.23E-40	21	CYB5A
1076	2.51E-41	0.736727	0.797	0.903	8.46E-37	21	RPSA
1077	4.61E-41	1.438546	0.318	0.12	1.55E-36	21	KRT7
1078	6.70E-39	0.636891	0.836	0.943	2.26E-34	21	RPL29
1079	1.01E-35	0.668474	0.802	0.933	3.41E-31	21	RPL24
1080	6.29E-35	0.639504	0.805	0.933	2.12E-30	21	RPS5
1081	1.44E-34	1.474613	0.349	0.161	4.85E-30	21	KRT8
1082	6.32E-29	1.486995	0.284	0.12	2.13E-24	21	AGR2
1083	1.23E-26	0.658543	0.745	0.922	4.14E-22	21	GNB2L1
1084	2.07E-23	0.707812	0.698	0.88	6.98E-19	21	RPL4
1085	5.52E-19	1.958206	0.312	0.177	1.86E-14	21	SCGB3A2
1086	2.42E-18	1.402155	0.292	0.166	8.16E-14	21	PERP
1087	8.82E-15	1.196062	0.255	0.142	2.97E-10	21	TACSTD2
1088	4.19E-14	0.630574	0.292	0.163	1.41E-09	21	SFTPB
1089	4.45E-14	0.620632	0.695	0.868	1.50E-09	21	ACTG1
1090	3.08E-12	0.714549	0.148	0.385	1.04E-07	21	TUBA1C
1091	7.00E-10	0.61713	0.26	0.563	2.36E-05	21	LDHB
1092	9.31E-10	0.642158	0.115	0.29	3.14E-05	21	IMPDH2
1093	1.04E-08	0.659716	0.279	0.595	0.000349	21	PKM
1094	4.92E-08	0.678267	0.263	0.547	0.001657	21	XBP1
1095	9.29E-08	0.807477	0.193	0.406	0.003129	21	DUSP23
1096	4.68E-07	1.194734	0.268	0.206	0.015759	21	ID1
1097	4.03E-06	0.779085	0.122	0.256	0.135802	21	OAT
1098	0.000706	0.762707	0.169	0.294	1	21	PRDX2
1099	0.001296	0.755146	0.273	0.246	1	21	ADIRF
1100	0.005357	1.021025	0.328	0.356	1	21	MGST1
1101	0	5.682	0.597	0.03	0	22	IGHG1
1102	0	5.458582	0.869	0.033	0	22	JCHAIN
1103	0	5.445249	0.613	0.031	0	22	IGHG3
1104	0	4.116146	0.529	0.016	0	22	IGHG4
1105	0	3.905804	0.461	0.005	0	22	IGHG2
1106	0	3.53066	0.361	0.004	0	22	IGHA2
1107	0	3.202995	0.932	0.01	0	22	MZB1
1108	0	2.667276	0.393	0.001	0	22	IGHGP
1109	0	1.531951	0.675	0.012	0	22	CD79A
1110	0	1.448476	0.691	0.015	0	22	DERL3
1111	0	1.126758	0.319	0.002	0	22	AL928768.3
1112	0	1.101765	0.602	0.021	0	22	CD27

1113	0	0.885246	0.387	0.002	0	22	JSRP1
1114	0	0.808817	0.33	0	0	22	IGLV3-1
1115	0	0.717403	0.44	0.011	0	22	SPAG4
1116	0	0.662484	0.466	0.001	0	22	FCRL5
1117	0	0.584818	0.356	0.001	0	22	TNFRSF17
1118	0	0.523021	0.419	0.015	0	22	POU2AF1
1119	2.23E-206	4.373159	0.283	0.014	7.51E-202	22	IGHM
1120	2.16E-187	7.100546	0.838	0.166	7.28E-183	22	IGKC
1121	6.33E-177	1.266871	0.675	0.094	2.13E-172	22	ITM2C
1122	2.80E-170	1.670162	0.859	0.179	9.44E-166	22	FKBP11
1123	2.46E-154	6.184747	0.592	0.086	8.28E-150	22	IGHA1
1124	5.31E-145	0.493428	0.262	0.017	1.79E-140	22	RAB30
1125	6.10E-115	0.528152	0.414	0.05	2.05E-110	22	CD38
1126	3.84E-110	2.111699	0.969	0.714	1.29E-105	22	SSR4
1127	3.88E-108	6.070756	0.387	0.049	1.31E-103	22	IGLC3
1128	8.22E-99	0.685627	0.55	0.095	2.77E-94	22	PIM2
1129	7.46E-95	1.435549	0.832	0.335	2.51E-90	22	PRDX4
1130	2.11E-88	6.144324	0.429	0.073	7.12E-84	22	IGLC2
1131	4.28E-82	0.56889	0.545	0.111	1.44E-77	22	TPD52
1132	3.24E-77	0.593687	0.419	0.069	1.09E-72	22	SDC1
1133	2.14E-75	1.294009	0.33	0.047	7.20E-71	22	DNAAF1
1134	1.55E-74	1.326105	0.817	0.381	5.21E-70	22	SEC11C
1135	7.00E-67	1.519172	0.885	0.594	2.36E-62	22	HERPUD1
1136	1.46E-42	0.642227	0.539	0.185	4.91E-38	22	PLPP5
1137	5.59E-42	0.643232	0.623	0.243	1.88E-37	22	CRELD2
1138	3.08E-41	0.703196	0.681	0.266	1.04E-36	22	ISG20
1139	4.67E-40	1.078997	0.812	0.543	1.58E-35	22	XBP1
1140	1.43E-39	0.473504	0.555	0.2	4.83E-35	22	TXNDC15
1141	1.33E-38	0.559633	0.403	0.112	4.48E-34	22	HIST1H1C
1142	2.10E-33	0.845635	0.796	0.513	7.07E-29	22	FKBP2
1143	7.08E-30	0.70774	0.555	0.238	2.39E-25	22	LINC00152
1144	1.85E-25	0.604251	0.675	0.373	6.25E-21	22	SDF2L1
1145	2.78E-22	0.528228	0.775	0.554	9.36E-18	22	SPCS2
1146	2.88E-20	0.525359	0.623	0.355	9.71E-16	22	DNAJB9
1147	4.54E-20	0.551223	0.66	0.424	1.53E-15	22	SPCS3
1148	5.98E-20	0.570405	0.66	0.403	2.02E-15	22	MANF
1149	2.94E-17	0.517105	0.743	0.516	9.91E-13	22	SSR3
1150	3.05E-15	0.797749	0.785	0.611	1.03E-10	22	HSP90B1

Table S4: Proliferating Cells in Control and IPF Lungs			
	Healthy lungs:	**IPF upper lobe:**	**IPF lower lobe:**
Cell Identity	**Number of prolferating cells (% of proliferating cell/total cells of that cell type in each tissue type) [% of proliferating cells/total macrophages in each tissue type]*.**		
SPP1^{hi} Macrophage	2 (0.072%)[0.023%]	42 (2.007%)[0.994%]	149 (3.502%)[2.799%]
FABP4^{hi} Macrophage	169 (4.061%)[1.965%]	176 (10.59%)[4.165%]	89 (16.952%)[1.672%]
FCN1^{hi} Macrophage	35 (2.122%)[.407%]	12 (2.548%)[0.284%]	16 (2.941%)[0.301%]
Club	1 (0.633%)	3 (1.546%)	11 (1.278%)
AT1	0 (0%)	1 (5.556%)	3 (5.769%)
AT2	3 (0.565%)	1 (0.375%)	0 (0%)
Basal	0 (0%)	1 (1.493%)	33 (4.641%)
Ciliated	0 (0%)	0 (0%)	3 (0.422%)
T cell	4 (0.145%)	12 (0.731%)	12 (0.48%)
Endothelial	5 (0.325%)	10 (0.696%)	4 (0.17%)
NK cell	14 (3.423%)	2 (0.405%)	2 (0.707%)
Fibroblast	2 (0.458%)	2 (0.464%)	11 (0.556%)
* Macrophages only			

Table S5. Proportion of gene expression in digested cells compared to undigested lung tissues

Marker Gene	Cell Type	Mean proportion expression* (%BulkCell/%BulkTissue)	Standard deviation (%BulkCell/%BulkTissue)
CD163	Macrophage	5.53	4.21
AIF1	Macrophage/Dendritic Cell	2.30	0.95
CD68	Macrophage	5.90	2.28
CD1C	Dendritic Cell	0.82	0.25
TPSAB1	Mast Cell	0.72	0.46
GNLY	Natural Killer Cell	2.67	2.80
NKG7	Natural Killer Cell	2.45	2.59
CD3D	T Cell	1.03	0.57
CD4	T Helper Cell	1.89	1.08
CD8A	Cytotoxic T Cell	1.33	0.78
MS4A1	B Cell	0.73	0.79
IGKC	Plasma Cell	0.10	0.09
JCHAIN	Plasma Cell	0.13	0.10
VWF	Endothelial Cell	0.41	0.15
CLDN5	Endothelial Cell	0.21	0.11
LYVE1	Lymphatic Endothelial Cell	0.62	0.48
FOXJ1	Ciliated Cell	5.97	11.00
TPPP3	Ciliated Cell	2.09	3.26
SFTPC	AT2	0.51	0.46
AGER	AT1	0.25	0.27
SCGB3A2	Club Cell	4.66	8.71
SCGB1A1	Club Cell	5.29	7.13
MUC5B	Goblet Cell	9.68	15.13
KRT5	Basal Cell	24.81	59.53
DES	Smooth Muscle Cell	0.02	0.01
RGS5	Pericyte	0.26	0.25
RERGL	Pericyte	0.20	0.21
COL1A1	Fibroblast	0.29	0.34
SFRP2	Fibroblast	0.15	0.06
PDGFRA	Fibroblast	0.18	0.17

*Proportion is calculated by normalized expression in RNA-seq from digested tissue compared to tissue before digestion. These values represent the mean and standard deviation of two control and two IPF lungs

Table S6A
Table S6B

See Table at ERJ website or:

https://dom.pitt.edu/rheum/centers-institutes/scleroderma/systemicsclerosiscenter/database/

Table S7: Genes upregulated in SPP1^{hi} macrophages

Gene	IPF/healthy fold-change
LEP	no denominator
RP4-644L1.2	no denominator
KCNJ5	15.76
HS3ST2	15.58
AC145110.1	15.28
L3MBTL4-AS1	10.99
VIL1	10.15
COL4A2-AS2	7.83
MREG	7.70
SDC3	7.57
SPP1	7.56
DFNA5	7.45
SIGLEC15	7.43
ATP6V0D2	7.12
GSDMA	6.79
SMPDL3A	6.29
LGMN	6.07
CD84	5.93
HTRA4	5.55
TM4SF19-TCTEX1	5.36
ALK	5.36
TMEM37	5.02
FOLR2	4.97
MERTK	4.96
SLC29A1	4.49
NR1H3	4.17
RP11-184M15.1	4.13
LILRB4	3.97
MMP9	3.81
CMKLR1	3.71
SDC2	3.57
SLC29A3	3.28
TM4SF19	3.24
FAM20C	3.19
CRYBB1	3.08
CTSZ	2.88
ZMIZ1-AS1	2.83
DOPEY2	2.73
GPNMB	2.72
MS4A6E	2.69

RP11-20G13.3	2.66
ACP2	2.61
FCHO2	2.54
SLC26A11	2.43
ZNF385A	2.41
APOE	2.38
AP000695.4	2.29
SCARB1	2.18
DAB2	2.17
SLC1A3	2.14
GM2A	2.13
SLC36A1	2.02

Table S8. Regulation of genes by SPP1hi macrophages (filtered for minimal expression>0.5 by SPP1 LOWER lobe macrophages).

Gene	1-SPP1 macrophages NORMAL	1-SPP1 macrophages IPF UPPER	1-SPP1 macrophages IPF LOWER	SPP1 lower lobe/control	SPP1 upper lobe/control
CTSK	0.04	0.37	1.34	32.20	8.92
RARRES1	0.03	0.29	0.71	21.77	9.09
CHI3L1	0.09	0.55	1.83	20.35	6.08
HS3ST2	0.06	0.40	0.88	15.58	7.06
MMP7	0.10	0.30	1.26	13.23	3.17
TDRD3	0.07	0.59	0.85	12.19	8.46
IGLC2	0.08	0.10	0.69	9.06	1.33
CHIT1	0.12	1.11	1.08	8.89	9.15
IGKC	0.13	0.25	1.18	8.80	1.84
PLTP	0.16	0.64	1.30	8.03	3.94
SPARC	0.14	0.32	1.10	7.97	2.35
SPP1	5.84	14.87	44.14	7.56	2.55
FN1	1.13	6.44	7.59	6.71	5.69
SMPDL3A	0.12	0.37	0.73	6.29	3.17
LGMN	1.30	4.19	7.86	6.07	3.23
CCL18	8.20	26.47	49.29	6.01	3.23
CD84	0.25	1.13	1.49	5.93	4.51
SCGB3A1	0.47	1.30	2.47	5.20	2.73
HLA-DQA1	2.05	8.17	10.58	5.16	3.99
FOLR2	0.28	0.67	1.40	4.97	2.37
MERTK	0.13	0.39	0.65	4.96	2.92
SEPP1	0.73	1.92	3.55	4.84	2.62
RP11-1008C21.1	0.11	0.43	0.53	4.71	3.87
C1orf54	0.14	0.35	0.65	4.67	2.55
SLC40A1	0.13	0.46	0.60	4.54	3.48
SLC29A1	0.12	0.29	0.53	4.49	2.47
MTSS1	0.13	0.38	0.57	4.29	2.89
VAMP5	0.24	0.79	1.01	4.22	3.28
NR1H3	0.21	0.67	0.86	4.17	3.23
LILRB4	0.50	1.53	1.98	3.97	3.06
MMP9	0.20	0.39	0.77	3.81	1.95
SDC2	0.96	2.02	3.42	3.57	2.11
CCL4L2	0.56	0.89	1.99	3.55	1.60
FCGR1A	0.30	0.87	1.03	3.42	2.88
A2M	0.36	0.84	1.21	3.38	2.34
C2	0.16	0.32	0.52	3.26	1.99
TNS1	0.17	0.32	0.54	3.21	1.93

FAM20C	0.17	0.40	0.54	3.19	2.35
SDS	0.35	1.14	1.10	3.12	3.23
NUPR1	1.34	2.08	4.10	3.06	1.55
CCL3L3	0.45	0.53	1.32	2.98	1.18
SCD	0.45	1.08	1.32	2.95	2.42
CTSZ	2.94	7.43	8.44	2.88	2.53
CD48	0.38	0.60	1.09	2.87	1.58
IFI27	0.85	1.03	2.43	2.86	1.21
CPM	0.99	2.15	2.77	2.80	2.17
PLEKHO1	0.18	0.24	0.51	2.78	1.30
RBP4	0.21	0.30	0.57	2.74	1.43
GPNMB	4.70	8.29	12.81	2.72	1.76
TSC22D1	0.58	0.65	1.51	2.63	1.12
ACP2	0.31	0.81	0.82	2.61	2.56
HK2	0.25	0.27	0.63	2.54	1.10
NTAN1	0.54	0.90	1.32	2.47	1.67
FRMD4B	0.23	0.41	0.55	2.43	1.83
ALDH1A1	0.43	0.59	1.04	2.43	1.38
TNFSF13B	0.58	1.22	1.38	2.38	2.10
APOE	21.31	46.36	50.76	2.38	2.18
CD4	0.31	0.60	0.74	2.37	1.92
MAF	0.23	0.39	0.53	2.32	1.70
TMEM176B	0.66	0.87	1.52	2.31	1.32
ABCA1	0.45	0.81	1.03	2.31	1.82
ARID5B	0.77	1.06	1.77	2.30	1.38
IRF1	0.33	1.27	0.75	2.29	3.87
SLPI	0.24	0.13	0.54	2.27	0.54
GPR34	0.31	0.51	0.69	2.25	1.68
TPST2	0.28	0.51	0.61	2.21	1.85
MARCKS	0.82	1.19	1.80	2.19	1.44
DAB2	1.95	3.43	4.23	2.17	1.76
FYB	0.71	1.37	1.51	2.15	1.94
SLC1A3	0.44	0.75	0.95	2.14	1.69
CFD	1.73	2.35	3.69	2.14	1.36
GM2A	0.67	1.24	1.43	2.13	1.85
AP1S2	1.02	1.80	2.17	2.12	1.76
MGLL	0.39	0.89	0.81	2.11	2.31
NRP2	0.34	0.47	0.70	2.09	1.40
NUDT16	0.38	0.81	0.78	2.08	2.15
MITF	0.29	0.43	0.59	2.06	1.51
TMEM176A	0.45	0.54	0.93	2.06	1.19
RHOC	0.59	0.85	1.21	2.03	1.44

APOC1	21.38	45.29	42.75	2.00	2.12
PRCP	0.44	0.64	0.88	1.99	1.46
RGS1	2.26	3.46	4.47	1.98	1.53
MS4A4A	2.57	2.99	5.07	1.97	1.16
CD59	1.69	1.97	3.31	1.96	1.17
NCF1	0.41	0.36	0.81	1.95	0.86
FNIP2	1.04	1.52	2.03	1.95	1.46
TBC1D1	0.26	0.39	0.51	1.94	1.49
SGK1	1.93	3.23	3.73	1.94	1.68
MATK	0.29	0.47	0.56	1.94	1.63
SLAMF8	0.26	0.44	0.51	1.93	1.68
CALM3	2.12	3.41	4.09	1.93	1.61
LHFPL2	0.44	0.72	0.84	1.92	1.64
TREM2	1.66	3.21	3.18	1.92	1.94
PLBD1	0.60	1.12	1.14	1.89	1.87
ANXA4	1.16	1.46	2.19	1.89	1.26
GPR137B	0.63	0.98	1.18	1.87	1.56
CIR1	0.42	0.74	0.79	1.87	1.76
TNS3	0.42	0.68	0.79	1.86	1.60
ASAP1	0.41	0.55	0.76	1.86	1.36
PQLC3	0.32	0.55	0.60	1.86	1.70
CREBRF	0.27	0.35	0.50	1.86	1.28
CREBL2	0.29	0.39	0.54	1.85	1.32
FUCA1	0.44	0.54	0.81	1.84	1.23
NMB	0.48	1.18	0.89	1.83	2.43
HLA-DPB1	10.89	18.39	19.85	1.82	1.69
RDX	0.65	0.91	1.16	1.80	1.41
SMIM20	0.35	0.51	0.63	1.80	1.46
FOXP1	0.28	0.37	0.50	1.79	1.32
C3AR1	0.77	0.80	1.37	1.79	1.05
KLF2	0.36	0.56	0.64	1.78	1.56
SMIM3	1.06	1.40	1.88	1.77	1.32
RGS10	1.71	2.28	3.00	1.76	1.34
SMAP2	0.60	0.76	1.06	1.75	1.26
FABP3	0.60	0.74	1.05	1.75	1.24
PLA2G7	1.20	2.81	2.08	1.74	2.35
RALA	0.85	1.09	1.47	1.74	1.29
PEA15	0.45	0.63	0.79	1.73	1.38
TGFBI	1.65	2.83	2.84	1.73	1.72
SLC38A6	0.30	0.50	0.51	1.72	1.70
CHST11	0.50	0.79	0.86	1.72	1.59
TSPAN4	0.54	0.77	0.92	1.71	1.42

PSAP	14.53	21.08	24.83	1.71	1.45
IFI16	0.65	0.87	1.12	1.71	1.33
BCAT1	0.69	0.95	1.18	1.70	1.38
ADAM10	0.50	0.65	0.85	1.70	1.29
CD9	4.26	5.66	7.22	1.69	1.33
SRD5A3	0.31	0.57	0.53	1.68	1.81
MT-CO1	84.29	116.85	141.71	1.68	1.39
FDX1	1.10	1.92	1.86	1.68	1.74
CD14	2.24	2.01	3.76	1.68	0.90
CCR1	0.32	0.51	0.54	1.68	1.60
HLA-DRB1	10.50	16.26	17.58	1.67	1.55
CTSL	9.97	11.68	16.64	1.67	1.17
CCL13	1.01	1.39	1.68	1.67	1.38
TCN2	0.39	0.53	0.65	1.67	1.36
MS4A6A	2.67	3.57	4.45	1.67	1.34
SNCA	0.32	0.48	0.53	1.66	1.52
CCL4	1.72	1.35	2.85	1.65	0.79
LY86	0.70	1.00	1.16	1.65	1.43
LIPA	2.59	3.80	4.27	1.65	1.46
DHRS7	0.57	0.72	0.94	1.64	1.26
CD99	2.23	3.08	3.66	1.64	1.38
CXCR4	2.30	2.05	3.75	1.63	0.89
TSPAN14	0.46	0.67	0.75	1.63	1.45
CSTB	24.61	38.95	39.82	1.62	1.58
CPVL	0.74	0.80	1.19	1.61	1.08
LPL	1.27	1.74	2.03	1.60	1.37
CECR1	0.71	0.66	1.13	1.60	0.93
WDR26	0.44	0.51	0.70	1.60	1.17
MT-CYB	27.53	35.67	43.87	1.59	1.30
CD86	0.52	0.84	0.82	1.59	1.64
C15orf48	2.32	3.47	3.68	1.58	1.49
SNX5	0.61	0.81	0.96	1.58	1.33
CD36	0.80	1.45	1.26	1.58	1.81
HLA-DMB	2.20	2.49	3.46	1.57	1.14
GNB4	0.58	0.84	0.91	1.57	1.45
NAP1L1	2.40	2.88	3.77	1.57	1.20
NPC2	15.50	19.79	24.12	1.56	1.28
ACTG1	9.66	13.41	15.03	1.56	1.39
ZFP36L2	2.51	3.45	3.90	1.55	1.37
TTYH3	0.46	0.59	0.71	1.55	1.28
HLA-DRA	34.22	43.61	52.88	1.55	1.27
FTL	634.64	1089.04	974.72	1.54	1.72

PLEK	0.67	0.90	1.03	1.53	1.34
CD37	1.30	1.84	1.99	1.53	1.41
SNX6	0.67	0.83	1.03	1.52	1.24
ZFAND5	3.47	5.03	5.28	1.52	1.45
MT-CO3	50.73	67.46	77.16	1.52	1.33
UCP2	0.93	1.47	1.41	1.52	1.58
IL10	0.38	0.43	0.57	1.52	1.14
IQGAP2	0.64	0.79	0.97	1.51	1.24
TIMP2	1.17	1.63	1.77	1.51	1.39
STAT1	0.41	0.75	0.62	1.51	1.81
MARCO	6.04	7.20	9.08	1.50	1.19
TPM4	2.45	3.15	3.68	1.50	1.29
FABP5	13.89	18.52	20.84	1.50	1.33
AHNAK	1.58	1.67	2.37	1.50	1.06
HLA-DPA1	12.08	18.36	18.07	1.50	1.52
ACOT13	0.43	0.64	0.64	1.50	1.48
VAT1	0.90	1.49	1.34	1.49	1.66
MT-ND4	52.50	67.51	78.26	1.49	1.29
PABPC4	1.33	1.60	1.98	1.49	1.20
NCOA4	0.72	0.85	1.07	1.49	1.18
RAP2B	0.40	0.63	0.59	1.48	1.59
SEC14L1	0.41	0.49	0.61	1.48	1.20
PRDX1	5.44	6.16	8.03	1.48	1.13
GNAS	1.89	2.58	2.78	1.47	1.37
WIPI1	0.45	0.55	0.66	1.47	1.22
PTMS	0.70	1.01	1.03	1.47	1.44
CYSTM1	1.41	1.80	2.07	1.46	1.28
MT-ND5	5.81	6.22	8.51	1.46	1.07
SLC39A8	0.36	0.34	0.53	1.46	0.93
KCTD12	1.30	1.69	1.89	1.46	1.31
VIM	38.04	57.64	55.20	1.45	1.52
PLD3	1.63	1.94	2.35	1.45	1.19
IL18	0.52	0.69	0.75	1.44	1.32
VOPP1	0.39	0.49	0.56	1.44	1.26
MT-CO2	59.98	73.95	86.24	1.44	1.23
MFSD1	1.68	1.89	2.41	1.43	1.13
MPC2	1.04	1.32	1.50	1.43	1.26
BRI3	5.70	8.60	8.16	1.43	1.51
FOXN3	0.39	0.46	0.55	1.43	1.18
RNF130	2.88	3.69	4.11	1.43	1.28
HLA-DRB5	4.38	6.82	6.25	1.43	1.56
ABHD2	0.42	0.56	0.60	1.43	1.32

CTSS	7.28	7.25	10.35	1.42	1.00
OXA1L	0.50	0.55	0.71	1.42	1.09
CTSB	17.46	21.11	24.82	1.42	1.21
DRAM1	0.40	0.45	0.57	1.42	1.13
PLPP3	0.37	0.48	0.53	1.42	1.30
KIAA0930	0.53	0.58	0.75	1.42	1.11
MT-ND1	29.88	42.04	42.36	1.42	1.41
HLA-DQB1	4.49	6.19	6.36	1.42	1.38
FPR3	1.05	1.20	1.48	1.41	1.14
TMSB4X	182.37	233.67	257.90	1.41	1.28
CREG1	2.05	2.92	2.89	1.41	1.43
PTEN	0.41	0.55	0.58	1.41	1.33
NFIC	0.36	0.45	0.51	1.41	1.25
PNKD	0.38	0.45	0.53	1.41	1.21
RNASET2	1.44	1.95	2.01	1.40	1.36
ARL4C	0.87	0.74	1.22	1.40	0.85
TGFBR2	0.36	0.37	0.51	1.40	1.03
C9orf16	1.91	2.76	2.66	1.39	1.45
DICER1	0.43	0.53	0.60	1.39	1.23
WNK1	0.60	0.72	0.84	1.39	1.19
CEBPD	2.22	2.60	3.07	1.39	1.17
CBR1	0.45	0.60	0.63	1.38	1.33
DPYSL2	0.71	0.84	0.97	1.37	1.18
RGS2	2.70	3.35	3.71	1.37	1.24
SHTN1	0.38	0.49	0.51	1.37	1.31
APH1B	0.39	0.44	0.54	1.37	1.13
LGALS3	16.36	26.40	22.39	1.37	1.61
MFSD12	0.50	0.65	0.69	1.37	1.30
LGALS1	28.10	32.07	38.29	1.36	1.14
HCST	2.35	2.53	3.20	1.36	1.07
PECAM1	0.54	0.84	0.73	1.36	1.55
TFRC	2.43	3.33	3.30	1.36	1.37
CTSH	1.95	3.09	2.65	1.36	1.58
SCPEP1	0.95	0.94	1.29	1.36	0.99
PLGRKT	0.43	0.55	0.58	1.35	1.29
FOXO3	0.65	0.64	0.88	1.35	0.98
RRAGD	0.51	0.66	0.69	1.35	1.29
GTF3A	1.53	1.94	2.07	1.35	1.26
GLMP	0.42	0.54	0.57	1.35	1.28
MBD2	0.43	0.49	0.58	1.34	1.13
ATP6AP2	1.69	1.78	2.28	1.34	1.05
DNAJB1	1.13	0.58	1.51	1.34	0.51

OTOA	0.49	0.57	0.65	1.34	1.16
RNASE1	3.03	1.26	4.06	1.34	0.42
KLF6	3.90	3.88	5.21	1.34	1.00
BLOC1S2	1.14	1.51	1.53	1.34	1.32
CYFIP1	0.62	0.70	0.82	1.33	1.14
RHOB	1.67	1.99	2.22	1.33	1.19
CELF2	0.99	1.16	1.32	1.33	1.17
DNAJC1	0.40	0.49	0.53	1.33	1.22
MAN1A1	0.48	0.51	0.64	1.33	1.06
CRTAP	0.71	0.74	0.93	1.32	1.05
CCDC85B	0.67	0.82	0.89	1.32	1.22
OGFRL1	0.61	0.65	0.81	1.32	1.07
PAPSS2	0.53	0.51	0.70	1.32	0.97
GSN	2.58	2.84	3.41	1.32	1.10
FOSB	2.33	2.60	3.06	1.32	1.12
RBPJ	1.44	1.57	1.88	1.31	1.09
GLIPR1	1.08	1.14	1.41	1.31	1.05
OSBPL8	0.80	0.96	1.04	1.31	1.21
SRGN	15.13	15.61	19.74	1.30	1.03
MDH1	1.05	1.02	1.37	1.30	0.98
SQRDL	1.16	1.35	1.51	1.30	1.16
DARS	0.46	0.52	0.60	1.30	1.11
SNX9	0.52	0.53	0.68	1.30	1.00
CSF1R	0.42	0.52	0.54	1.29	1.26
DSTN	1.51	1.71	1.95	1.29	1.13
KDELR1	0.61	0.76	0.79	1.29	1.24
ISCU	1.85	2.13	2.38	1.29	1.15
EVI2A	0.80	0.61	1.03	1.29	0.77
IRF2BP2	0.66	0.62	0.85	1.28	0.93
MT-ATP6	36.97	42.19	47.34	1.28	1.14
POLR3GL	0.50	0.65	0.63	1.28	1.31
GNS	1.07	1.13	1.37	1.28	1.05
NAGK	0.46	0.55	0.59	1.28	1.19
BHLHE40	0.57	0.56	0.72	1.27	0.98
IGF2R	0.40	0.46	0.51	1.27	1.15
SNAP29	0.39	0.47	0.50	1.27	1.19
FTH1	335.82	436.38	427.14	1.27	1.30
SLC31A1	0.44	0.53	0.55	1.27	1.22
RAC2	0.55	0.70	0.69	1.27	1.27
DDX17	0.92	0.87	1.17	1.27	0.94
FGL2	0.57	0.49	0.72	1.27	0.85
LTA4H	1.99	2.11	2.52	1.27	1.06

PRDX4		0.67	0.76	0.84	1.27	1.14
	9-Sep	0.55	0.60	0.70	1.27	1.09
FAM96A		1.28	1.35	1.62	1.26	1.05
ETHE1		0.60	0.73	0.75	1.26	1.22
GUSB		0.59	0.74	0.74	1.26	1.27
CHMP4B		0.62	0.77	0.78	1.26	1.24
C4orf3		2.53	2.62	3.18	1.26	1.04
	2-Mar	0.47	0.67	0.59	1.25	1.41
RAB32		0.73	0.83	0.92	1.25	1.13
TNFAIP2		0.47	0.50	0.58	1.25	1.08
ERO1A		0.43	0.42	0.53	1.25	0.98
LY96		1.99	1.96	2.49	1.25	0.98
ITGAM		0.58	0.85	0.73	1.25	1.45
FKBP5		1.44	1.78	1.80	1.24	1.23
CAPG		5.76	6.34	7.17	1.24	1.10
RPA3		0.50	0.51	0.62	1.24	1.02
NDFIP1		1.12	1.11	1.40	1.24	0.99
PBDC1		0.53	0.52	0.66	1.24	0.98
MT-ND3		20.31	20.17	25.23	1.24	0.99
NGFRAP1		0.56	0.53	0.69	1.24	0.95
GLA		0.55	0.61	0.68	1.24	1.10
SDSL		0.57	0.86	0.71	1.24	1.51
ADAM9		0.72	0.76	0.90	1.24	1.05
RAB31		2.30	2.31	2.86	1.24	1.00
CALU		0.81	0.83	1.00	1.24	1.03
WASF2		1.03	1.38	1.28	1.24	1.33
RNF145		0.57	0.48	0.70	1.24	0.85
SLA		1.10	1.37	1.37	1.24	1.24
FOS		6.26	6.70	7.75	1.24	1.07
TPP1		1.78	1.97	2.20	1.24	1.11
LITAF		3.15	3.88	3.88	1.23	1.23
MGST2		0.60	0.66	0.74	1.23	1.09
RNASE6		0.87	0.80	1.08	1.23	0.91
PRNP		0.89	0.90	1.10	1.23	1.01
LAMP1		2.98	3.81	3.67	1.23	1.28
EEF1A1		50.34	55.53	61.94	1.23	1.10
HEBP1		0.51	0.70	0.63	1.23	1.37
VTI1B		0.81	1.16	0.99	1.23	1.44
STX7		0.83	0.97	1.01	1.23	1.17
S100A9		9.27	10.38	11.36	1.23	1.12
YBX3		1.60	2.01	1.96	1.22	1.26
CALM2		6.60	6.21	8.06	1.22	0.94

CMTM3	0.50	0.46	0.61	1.22	0.92
MBP	0.44	0.41	0.54	1.22	0.91
FEZ2	0.50	0.51	0.61	1.22	1.02
MT-ND2	42.84	52.46	52.04	1.21	1.22
TMEM70	0.97	1.02	1.18	1.21	1.06
ZFP36L1	1.52	1.35	1.84	1.21	0.88
EGR1	0.72	0.54	0.87	1.21	0.75
ARRB2	1.44	1.60	1.74	1.21	1.11
USF2	0.80	1.45	0.96	1.21	1.81
CSNK2B	1.27	1.42	1.53	1.20	1.11
ADAP2	0.45	0.53	0.54	1.20	1.17
ATP6V1A	0.76	0.82	0.92	1.20	1.07
CYB5A	1.27	1.70	1.52	1.20	1.33
EIF4B	0.93	1.03	1.11	1.20	1.11
NPL	0.98	1.19	1.18	1.20	1.21
ITGB1	1.28	1.30	1.53	1.20	1.02
TXNIP	2.98	2.14	3.56	1.20	0.72
HEXB	3.34	3.43	3.99	1.19	1.03
HNRNPUL1	0.50	0.57	0.60	1.19	1.14
LAMP2	1.49	1.28	1.78	1.19	0.86
WIPI2	0.43	0.44	0.51	1.19	1.02
RNASEH2B	0.54	0.66	0.64	1.19	1.23
FAM195B	0.84	1.01	1.00	1.19	1.21
AKR1B1	1.06	1.19	1.27	1.19	1.12
JAK1	0.84	0.88	1.00	1.19	1.05
GOLIM4	0.46	0.56	0.55	1.19	1.22
NECAP2	0.52	0.53	0.62	1.19	1.02
SCARB2	1.03	1.14	1.23	1.19	1.11
FCGR2B	0.73	0.65	0.87	1.19	0.89
HLA-A	10.45	13.35	12.39	1.19	1.28
RNF144B	0.60	0.57	0.71	1.19	0.95
SNHG7	0.43	0.52	0.51	1.18	1.23
CTBS	0.47	0.45	0.55	1.18	0.95
MPP1	1.16	1.40	1.37	1.18	1.20
IPO7	0.47	0.50	0.55	1.18	1.08
SLC16A10	1.53	1.98	1.81	1.18	1.29
SH3GLB1	1.51	1.61	1.78	1.18	1.07
BCAP31	2.32	2.74	2.74	1.18	1.18
CAPZB	1.93	2.27	2.28	1.18	1.17
SH3BGRL	3.01	3.06	3.54	1.18	1.02
CYP27A1	2.17	2.62	2.56	1.18	1.21
APMAP	0.43	0.37	0.50	1.18	0.85

PPT1	2.38	2.89	2.80	1.18	1.21
MRFAP1	1.03	1.01	1.21	1.17	0.98
GALNT1	0.50	0.56	0.58	1.17	1.13
RBMS1	0.86	1.00	1.01	1.17	1.16
DHRS4L2	0.43	0.46	0.51	1.17	1.06
CNIH4	1.21	1.33	1.42	1.17	1.09
PITHD1	0.43	0.50	0.51	1.17	1.14
EID1	1.03	0.98	1.20	1.17	0.95
TAGLN2	4.22	4.65	4.92	1.17	1.10
RHOQ	0.73	0.73	0.85	1.17	1.01
NSMCE1	0.44	0.47	0.51	1.17	1.07
RAB20	1.24	1.34	1.45	1.17	1.08
MSN	1.35	1.43	1.57	1.17	1.06
ATP6V1C1	0.74	0.79	0.86	1.16	1.07
DMXL2	0.45	0.43	0.53	1.16	0.95
ZMAT2	0.60	0.57	0.69	1.16	0.96
GNA13	1.07	0.93	1.24	1.16	0.87
PTTG1IP	0.63	0.75	0.73	1.16	1.20
TAF7	0.48	0.41	0.55	1.16	0.86
HLA-DMA	4.28	4.73	4.95	1.16	1.11
TM9SF2	0.49	0.47	0.56	1.16	0.97
GTF2I	0.47	0.44	0.54	1.16	0.94
ANXA2	11.23	12.86	12.98	1.16	1.15
ATP6V1H	0.54	0.50	0.62	1.15	0.92
COTL1	5.08	6.17	5.86	1.15	1.22
CAMLG	0.64	0.64	0.73	1.15	1.01
HERPUD1	2.99	2.84	3.45	1.15	0.95
IGFBP7	0.44	0.48	0.51	1.15	1.08
ATP6V0E1	5.68	6.54	6.54	1.15	1.15
ATOX1	2.74	2.91	3.16	1.15	1.06
PFKFB3	0.45	0.37	0.51	1.15	0.84
GABARAPL2	1.52	1.52	1.74	1.15	1.00
IL10RB	0.65	0.87	0.75	1.15	1.33
CAB39	0.56	0.45	0.65	1.14	0.79
DCXR	0.90	0.86	1.03	1.14	0.95
SDHC	1.02	0.98	1.16	1.14	0.96
FXYD5	2.55	3.34	2.91	1.14	1.31
AES	0.49	0.58	0.56	1.14	1.19
IMP3	0.51	0.52	0.59	1.14	1.01
ITM2B	6.89	6.06	7.84	1.14	0.88
ATRAID	1.16	1.45	1.32	1.14	1.25
DBI	7.23	8.06	8.22	1.14	1.12

EFR3A		0.46	0.47	0.52	1.14	1.03
ACAP2		0.49	0.54	0.56	1.13	1.09
TOMM20		1.46	1.36	1.65	1.13	0.93
TYROBP		26.19	30.72	29.66	1.13	1.17
PCBD1		0.80	0.97	0.91	1.13	1.21
RBX1		2.53	2.39	2.86	1.13	0.95
ICAM1		0.53	0.56	0.60	1.13	1.05
REEP5		2.10	2.15	2.37	1.13	1.02
CYBB		2.29	2.89	2.59	1.13	1.26
RPS4X		20.08	21.87	22.67	1.13	1.09
NDUFS4		0.87	0.86	0.98	1.13	0.99
S100A10		24.38	27.69	27.46	1.13	1.14
HM13		0.77	0.99	0.86	1.13	1.29
GPX1		24.08	25.63	27.07	1.12	1.06
APPL1		0.47	0.55	0.52	1.12	1.18
YY1		0.67	0.65	0.76	1.12	0.96
SUCLG1		0.50	0.51	0.57	1.12	1.01
PDK4		1.31	1.85	1.47	1.12	1.42
CHPT1		0.49	0.63	0.55	1.12	1.29
MPC1		0.90	1.02	1.01	1.12	1.14
DGCR6L		0.46	0.61	0.51	1.12	1.33
HSD3B7		0.51	0.69	0.57	1.12	1.36
GLUD1		0.55	0.60	0.62	1.12	1.09
ADIPOR1		0.96	1.10	1.07	1.12	1.15
ZYX		0.74	0.80	0.83	1.12	1.08
SERINC1		0.83	0.74	0.92	1.12	0.90
LIMS1		3.29	3.59	3.68	1.12	1.09
HSD17B11		0.79	0.81	0.89	1.12	1.02
MRPS6		0.59	0.52	0.66	1.12	0.88
NACA		10.06	10.11	11.20	1.11	1.01
IDH2		0.54	0.89	0.60	1.11	1.64
PAPSS1		0.60	0.57	0.66	1.11	0.96
HPGD		0.62	0.49	0.69	1.11	0.79
DRAM2		1.02	1.14	1.13	1.11	1.12
CFDP1		0.59	0.60	0.66	1.11	1.01
DCAF7		0.51	0.52	0.57	1.11	1.02
WIPF1		0.84	0.76	0.94	1.11	0.90
PRKAR1A		0.86	0.81	0.96	1.11	0.94
APH1A		0.91	1.17	1.01	1.11	1.28
SOD1		1.89	1.95	2.10	1.11	1.03
RGCC		10.93	10.23	12.10	1.11	0.94
	2-Sep	0.93	0.96	1.03	1.11	1.03

FGR	1.67	1.79	1.84	1.11	1.08
CRIP1	1.07	1.36	1.19	1.11	1.27
IGBP1	0.53	0.55	0.59	1.11	1.04
SIRPA	0.78	0.87	0.87	1.10	1.11
SMS	1.67	1.72	1.84	1.10	1.03
AHR	0.59	0.51	0.65	1.10	0.87
SSR3	2.22	2.46	2.45	1.10	1.11
ATPIF1	1.34	1.21	1.48	1.10	0.90
TFPT	0.58	0.86	0.64	1.10	1.48
H2AFV	1.29	1.47	1.42	1.10	1.14
CD63	23.85	25.83	26.30	1.10	1.08
MT-ND4L	1.84	1.49	2.03	1.10	0.81
PILRA	0.52	0.61	0.57	1.10	1.19
PPP1R10	0.47	0.53	0.52	1.10	1.13
RHOA	7.44	7.68	8.18	1.10	1.03
SERPINB6	0.76	0.92	0.83	1.10	1.21
HCFC1R1	0.57	0.65	0.63	1.10	1.13
SCCPDH	0.79	1.33	0.87	1.09	1.68
EMP1	1.97	1.43	2.16	1.09	0.72
COPRS	0.57	0.69	0.62	1.09	1.21
PEBP1	2.05	2.51	2.25	1.09	1.22
CTDNEP1	0.68	0.62	0.74	1.09	0.91
MAX	0.46	0.46	0.50	1.09	1.01
S100A13	0.50	0.74	0.55	1.09	1.47
BOLA3	0.57	0.67	0.62	1.09	1.17
TAOK3	0.74	0.68	0.81	1.09	0.92
TMEM14C	1.30	1.40	1.42	1.09	1.07
PRMT2	0.55	0.63	0.59	1.09	1.15
CD47	1.58	1.85	1.72	1.09	1.17
SURF1	0.62	0.77	0.68	1.09	1.24
ANXA7	0.83	0.72	0.91	1.09	0.86
HINT1	4.34	4.75	4.72	1.09	1.09
IFI27L2	1.44	1.45	1.56	1.09	1.01
FAAP20	0.63	0.67	0.69	1.09	1.06
TNFRSF14	0.54	0.57	0.59	1.09	1.05
ESD	0.97	0.93	1.06	1.08	0.95
GNAI2	1.84	1.95	1.99	1.08	1.06
TXN	8.91	10.27	9.64	1.08	1.15
CFLAR	1.11	1.13	1.20	1.08	1.02
ARL2	0.64	0.76	0.69	1.08	1.19
PTMA	21.14	19.46	22.86	1.08	0.92
AMD1	0.77	0.87	0.83	1.08	1.14

ACTB	48.71	54.55	52.65	1.08	1.12
RAB7A	2.54	2.33	2.75	1.08	0.91
FAM195A	0.91	1.03	0.98	1.08	1.13
SDHB	1.24	1.28	1.34	1.08	1.03
ATF3	1.24	0.97	1.33	1.08	0.78
LILRB3	0.48	0.65	0.52	1.08	1.34
JUND	1.70	1.19	1.83	1.08	0.70
ATP6AP1	1.64	1.50	1.76	1.08	0.92
ITGB1BP1	1.01	0.93	1.09	1.07	0.92
NUCKS1	1.03	1.12	1.11	1.07	1.08
CFL1	12.98	12.77	13.94	1.07	0.98
VAMP8	5.82	6.09	6.26	1.07	1.05
CLTA	3.05	3.03	3.28	1.07	0.99
ZCRB1	0.86	1.03	0.93	1.07	1.20
CAP1	3.10	3.12	3.32	1.07	1.01
CD58	0.75	0.61	0.80	1.07	0.81
TDP2	0.70	0.71	0.75	1.07	1.02
DDAH2	1.07	1.22	1.14	1.07	1.14
C7orf73	1.49	1.52	1.60	1.07	1.02
ARL6IP5	1.74	1.55	1.86	1.07	0.89
LAPTM4A	2.13	1.58	2.28	1.07	0.74
CAST	1.60	1.69	1.71	1.07	1.06
ASAH1	6.02	5.94	6.44	1.07	0.99
RPL7	21.85	20.50	23.38	1.07	0.94
CMTM7	0.65	0.92	0.69	1.07	1.42
RPL10	51.79	51.04	55.35	1.07	0.99
LASP1	0.62	0.61	0.66	1.07	0.99
CACUL1	0.49	0.46	0.52	1.07	0.94
CD74	36.86	41.19	39.28	1.07	1.12
LINC01272	2.21	3.37	2.36	1.07	1.52
NUDT21	0.47	0.49	0.50	1.07	1.03
NSA2	0.98	0.99	1.05	1.07	1.01
TAX1BP3	0.53	0.64	0.56	1.06	1.21
UQCRB	7.68	6.75	8.18	1.06	0.88
SLC2A3	1.87	1.10	1.99	1.06	0.59
CD81	2.76	2.61	2.94	1.06	0.95
GDI2	1.41	1.64	1.50	1.06	1.16
FERMT3	0.81	0.99	0.87	1.06	1.22
PPIA	7.79	7.02	8.28	1.06	0.90
OAZ1	23.01	24.95	24.44	1.06	1.08
SRSF4	0.48	0.48	0.51	1.06	1.00
VAMP2	0.57	0.48	0.61	1.06	0.84

B2M	112.78	107.35	119.71	1.06	0.95
DUSP23	1.12	1.39	1.19	1.06	1.24
LINC00657	0.64	0.60	0.67	1.06	0.95
COMMD7	0.56	0.72	0.60	1.06	1.28
ATP5A1	1.42	1.45	1.51	1.06	1.02
TMEM179B	0.75	0.88	0.79	1.06	1.17
FBXO7	0.51	0.54	0.54	1.06	1.06
RPS24	27.49	25.29	29.01	1.06	0.92
ODF3B	0.50	0.55	0.53	1.05	1.10
SOAT1	1.24	1.32	1.30	1.05	1.07
TPT1	49.95	48.70	52.65	1.05	0.97
RAB10	1.29	1.29	1.36	1.05	1.00
VAPA	2.86	2.59	3.01	1.05	0.90
MS4A7	6.25	5.54	6.57	1.05	0.89
TTC3	0.56	0.72	0.59	1.05	1.29
DGUOK	0.68	0.71	0.71	1.05	1.05
EIF3H	2.06	2.03	2.16	1.05	0.98
HMGN1	2.17	3.11	2.28	1.05	1.43
LSM8	0.92	0.77	0.97	1.05	0.84
RBM47	1.11	1.00	1.16	1.05	0.90
LSP1	0.95	1.32	1.00	1.04	1.38
FKBP8	0.99	1.15	1.03	1.04	1.17
CD44	4.92	4.43	5.13	1.04	0.90
CNIH1	0.80	0.86	0.83	1.04	1.08
TMBIM4	1.50	1.42	1.56	1.04	0.94
ERGIC3	0.86	1.07	0.90	1.04	1.24
TLR2	0.66	0.60	0.68	1.04	0.91
MIS18BP1	0.52	0.69	0.54	1.04	1.32
ABI1	0.65	0.53	0.67	1.04	0.82
BRK1	2.93	3.19	3.05	1.04	1.09
GNB1	1.14	1.03	1.19	1.04	0.90
CD83	1.63	1.49	1.69	1.04	0.91
CSDE1	1.83	1.90	1.90	1.04	1.04
DEK	1.45	1.37	1.50	1.04	0.95
TMEM59	2.72	2.24	2.83	1.04	0.82
CAPNS1	0.77	0.80	0.80	1.04	1.03
ROCK1	1.10	1.06	1.15	1.04	0.96
APLP2	4.00	3.64	4.15	1.04	0.91
YBX1	20.27	23.76	21.01	1.04	1.17
TMEM50A	2.01	1.81	2.09	1.04	0.90
NENF	1.52	1.85	1.57	1.04	1.22
AHCYL1	0.53	0.55	0.55	1.04	1.04

CTNNA1	0.79	0.70	0.82	1.04	0.88
AP3S1	1.39	1.43	1.44	1.03	1.03
SAMHD1	1.69	1.93	1.75	1.03	1.14
SOD2	8.04	5.80	8.30	1.03	0.72
SH3BP5	0.95	0.78	0.98	1.03	0.82
WAC	0.56	0.45	0.58	1.03	0.80
MAPK1	0.62	0.55	0.64	1.03	0.89
REL	1.91	2.03	1.97	1.03	1.06
MEAF6	0.56	0.55	0.58	1.03	0.97
COPZ1	0.78	0.72	0.81	1.03	0.92
EMC7	1.07	0.95	1.10	1.03	0.89
MCTS1	0.65	0.65	0.67	1.03	1.00
RPL9	23.57	21.88	24.24	1.03	0.93
JUN	2.23	1.64	2.29	1.03	0.74
FAM162A	0.67	0.68	0.68	1.03	1.02
THOC7	0.81	0.77	0.83	1.03	0.95
CD68	9.25	14.30	9.50	1.03	1.55
LINC00998	1.24	1.52	1.27	1.02	1.23
WSB1	1.20	1.05	1.23	1.02	0.88
USP8	0.51	0.48	0.52	1.02	0.95
ATP5F1	1.90	1.72	1.94	1.02	0.91
CYTIP	0.99	0.88	1.01	1.02	0.89
ITGAX	0.96	1.19	0.99	1.02	1.23
EIF4A2	1.51	1.37	1.55	1.02	0.91
TMEM219	1.88	2.41	1.92	1.02	1.29
KTN1	1.31	1.29	1.33	1.02	0.99
RNMT	0.62	0.55	0.63	1.02	0.89
TCEA1	0.72	0.76	0.73	1.02	1.05
DAD1	2.13	1.96	2.18	1.02	0.92
RPL12	32.14	30.48	32.80	1.02	0.95
LMO4	0.56	0.45	0.57	1.02	0.80
RPS3A	26.77	24.94	27.31	1.02	0.93
ARL6IP4	2.41	2.77	2.46	1.02	1.15
SCGB1A1	1.38	0.53	1.40	1.02	0.39
TMEM248	0.60	0.58	0.62	1.02	0.96
KYNU	0.80	0.68	0.82	1.02	0.85
SEC11A	2.58	2.73	2.63	1.02	1.06
RAC1	8.45	7.99	8.59	1.02	0.95
UQCRC2	0.93	1.00	0.95	1.02	1.07
SCP2	1.50	1.39	1.53	1.02	0.92
EIF3L	1.26	1.32	1.28	1.02	1.04
RPL22	11.19	9.67	11.36	1.02	0.86

COX6C	4.70	3.76	4.77	1.02	0.80
NEU1	0.52	0.54	0.53	1.01	1.04
CLEC2B	1.24	0.99	1.25	1.01	0.80
NEAT1	22.62	25.57	22.89	1.01	1.13
EIF3E	2.65	2.43	2.68	1.01	0.91
MTDH	2.93	3.01	2.97	1.01	1.02
UBE2B	1.79	1.50	1.81	1.01	0.84
TMSB10	49.33	51.45	49.79	1.01	1.04
SPAG7	0.61	0.65	0.62	1.01	1.07
SMIM19	0.56	0.71	0.57	1.01	1.27
FAM120A	0.91	0.82	0.91	1.01	0.91
LYN	1.04	0.94	1.04	1.01	0.91
PDCD6	1.04	1.09	1.05	1.01	1.05
EEF1B2	6.98	7.08	7.03	1.01	1.01
TALDO1	2.31	2.71	2.33	1.01	1.17
RPL26	24.88	19.59	25.05	1.01	0.79
ATP6V1B2	1.81	1.69	1.82	1.01	0.93
WDR1	1.27	1.30	1.27	1.00	1.03
SRP14	6.58	6.44	6.61	1.00	0.98
CST3	16.34	18.45	16.40	1.00	1.13
HIF1A	1.55	1.18	1.55	1.00	0.76
APP	0.64	0.59	0.64	1.00	0.92
AZIN1	0.66	0.60	0.66	1.00	0.92
LCP2	0.67	0.62	0.67	1.00	0.93
SPPL2A	0.81	0.78	0.81	1.00	0.96
CPEB4	0.52	0.44	0.52	1.00	0.84
GNG5	5.87	6.16	5.88	1.00	1.05
UBXN4	1.13	1.04	1.13	1.00	0.93
MRPL54	1.07	1.12	1.07	1.00	1.05
ATP6V1E1	1.02	0.85	1.02	1.00	0.83
RPL7A	13.28	13.73	13.26	1.00	1.03
ARHGAP18	1.65	1.82	1.65	1.00	1.10
TYMP	7.21	7.73	7.20	1.00	1.07
EMILIN2	0.64	0.57	0.64	1.00	0.89
TSC22D3	3.37	2.85	3.36	1.00	0.85
CLN8	0.81	0.90	0.81	1.00	1.11
LAMTOR5	3.30	3.21	3.29	1.00	0.97
SH3BGRL3	22.06	24.65	22.00	1.00	1.12
DNPH1	0.79	0.91	0.79	1.00	1.15
METTL5	0.60	0.62	0.59	1.00	1.05
GNAQ	1.09	1.03	1.09	1.00	0.94
MLX	0.54	0.55	0.54	1.00	1.02

STUB1		0.82	0.94	0.82	1.00	1.15
FAM49B		2.12	2.08	2.11	1.00	0.98
MGAT1		2.22	2.08	2.20	0.99	0.94
MRPS7		0.57	0.67	0.57	0.99	1.17
ANP32B		1.80	1.61	1.79	0.99	0.90
TXNL4A		0.77	1.05	0.76	0.99	1.36
SERINC3		0.51	0.49	0.51	0.99	0.97
PTBP3		0.64	0.59	0.64	0.99	0.92
C1QB		17.80	17.96	17.67	0.99	1.01
RAB11A		1.06	0.93	1.05	0.99	0.88
TMBIM6		4.79	3.90	4.76	0.99	0.81
SPINT2		0.79	0.80	0.79	0.99	1.01
MTIF3		0.66	0.67	0.66	0.99	1.01
SYF2		0.94	0.78	0.93	0.99	0.83
EIF3D		0.84	0.83	0.83	0.99	0.98
NDUFB5		1.30	1.32	1.29	0.99	1.02
MAFB		2.53	1.78	2.51	0.99	0.70
CCL3		4.79	2.93	4.75	0.99	0.61
	7-Sep	1.32	1.14	1.30	0.99	0.87
RHOG		1.42	1.49	1.41	0.99	1.05
HEXA		1.12	1.18	1.11	0.99	1.06
RPS27A		26.89	24.21	26.61	0.99	0.90
PPCS		0.78	0.88	0.77	0.99	1.12
DNAJC15		1.30	1.43	1.28	0.99	1.10
ME2		0.65	0.76	0.64	0.99	1.17
SLC31A2		1.62	1.79	1.60	0.99	1.10
STAU1		0.53	0.55	0.52	0.99	1.03
HSD17B4		0.63	0.55	0.62	0.99	0.87
ANP32A		0.52	0.45	0.52	0.99	0.86
TUBA1A		1.02	0.77	1.00	0.99	0.76
TRMT112		2.48	2.13	2.45	0.99	0.86
HNMT		1.63	1.28	1.60	0.99	0.79
TUBA1B		9.53	10.35	9.39	0.99	1.09
CCDC107		0.96	0.90	0.95	0.98	0.93
FLOT1		0.83	0.77	0.81	0.98	0.93
IDS		0.70	0.62	0.69	0.98	0.89
TMED10		2.17	2.05	2.13	0.98	0.95
LSM2		0.67	0.85	0.65	0.98	1.28
RPL5		9.71	9.16	9.53	0.98	0.94
CLK1		0.77	0.71	0.76	0.98	0.92
TBCA		3.07	2.70	3.01	0.98	0.88
TLN1		0.78	0.85	0.77	0.98	1.09

ADAR	0.54	0.54	0.53	0.98	1.00
SERPINB1	1.36	1.48	1.33	0.98	1.09
SNRPE	1.67	1.55	1.63	0.98	0.93
MYADM	0.86	0.70	0.85	0.98	0.82
TACC1	0.53	0.55	0.52	0.98	1.02
TMEM9B	0.81	0.90	0.80	0.98	1.10
USP15	0.68	0.59	0.66	0.98	0.87
DPY30	0.82	0.78	0.80	0.98	0.95
RNF5	0.53	0.49	0.52	0.98	0.93
ARPC4	1.64	2.13	1.60	0.98	1.30
HSBP1	3.08	2.70	3.02	0.98	0.87
NCKAP1L	0.66	0.72	0.64	0.98	1.11
IL13RA1	0.81	0.77	0.79	0.98	0.96
C6orf48	1.75	1.44	1.71	0.98	0.82
NPM1	5.23	4.98	5.10	0.98	0.95
AIF1	8.11	7.91	7.91	0.97	0.97
GSTK1	1.23	1.34	1.20	0.97	1.08
GGNBP2	0.52	0.47	0.50	0.97	0.92
GUK1	3.33	3.72	3.24	0.97	1.12
CCNI	3.32	3.51	3.24	0.97	1.06
EMC3	0.66	0.67	0.64	0.97	1.02
MYL12B	4.50	3.64	4.38	0.97	0.81
REXO2	0.53	0.50	0.51	0.97	0.95
RALBP1	0.58	0.61	0.57	0.97	1.05
SEPW1	1.37	1.62	1.33	0.97	1.18
RPL14	15.88	14.33	15.43	0.97	0.90
ATP1A1	0.95	0.84	0.93	0.97	0.88
TMEM160	1.32	1.30	1.28	0.97	0.99
YWHAQ	1.35	1.36	1.31	0.97	1.01
CHMP5	0.99	0.88	0.96	0.97	0.89
LYZ	18.26	20.31	17.71	0.97	1.11
HSPA1B	1.00	0.20	0.97	0.97	0.21
SUMO3	1.77	1.78	1.72	0.97	1.00
IRS2	0.79	0.71	0.76	0.97	0.90
SERBP1	1.82	1.78	1.76	0.97	0.97
RPS23	27.93	24.05	26.98	0.97	0.86
DYNLT3	0.54	0.52	0.52	0.97	0.97
PTPN2	0.57	0.60	0.55	0.97	1.05
SYPL1	0.59	0.53	0.57	0.97	0.90
POLR2K	1.09	1.00	1.05	0.97	0.92
TMEM147	2.19	2.50	2.12	0.96	1.14
TPM3	3.32	3.47	3.21	0.96	1.04

FIS1	1.49	1.46	1.44	0.96	0.98
SAT1	38.82	33.60	37.43	0.96	0.87
POLR2G	0.70	0.56	0.67	0.96	0.80
LAPTM5	9.71	10.26	9.34	0.96	1.06
SLC25A3	3.44	3.41	3.31	0.96	0.99
TRAPPC1	1.44	1.51	1.39	0.96	1.05
GPX3	0.66	0.53	0.63	0.96	0.81
CHMP3	0.65	0.61	0.62	0.96	0.94
RER1	1.27	1.47	1.22	0.96	1.16
ARPC2	10.58	11.50	10.16	0.96	1.09
LAP3	1.32	1.21	1.26	0.96	0.92
C14orf119	0.61	0.49	0.58	0.96	0.82
FKBP3	0.61	0.56	0.59	0.96	0.92
UBE2I	1.12	1.09	1.07	0.96	0.97
ACTN1	0.95	0.88	0.91	0.96	0.93
HSPB1	3.78	2.78	3.62	0.96	0.74
MFF	0.65	0.64	0.62	0.96	0.99
ATP5O	3.09	2.71	2.96	0.96	0.88
ATP5G2	5.67	5.46	5.43	0.96	0.96
ELF1	1.16	0.98	1.11	0.96	0.85
TMEM183A	0.59	0.59	0.57	0.96	1.00
HPS1	0.54	0.52	0.52	0.96	0.97
IFITM2	0.92	0.76	0.87	0.95	0.83
RTF1	0.59	0.53	0.56	0.95	0.90
NDUFAF3	1.18	1.34	1.13	0.95	1.14
SLC43A3	0.59	0.54	0.56	0.95	0.92
BCL2A1	3.07	1.77	2.93	0.95	0.57
DDX24	0.72	0.62	0.69	0.95	0.86
IDH3G	0.64	0.67	0.61	0.95	1.03
DYNC1I2	0.68	0.63	0.65	0.95	0.93
ATP5D	2.87	2.74	2.73	0.95	0.96
RNF13	2.11	1.97	2.01	0.95	0.93
PSMA3	0.92	0.74	0.88	0.95	0.80
PNISR	0.69	0.59	0.65	0.95	0.87
GADD45B	2.15	1.60	2.05	0.95	0.74
AKIRIN2	1.10	1.11	1.05	0.95	1.01
POLR1D	1.38	1.36	1.32	0.95	0.99
NDUFC2	2.37	1.97	2.25	0.95	0.83
PNRC1	4.50	3.55	4.27	0.95	0.79
SPG21	1.96	2.00	1.86	0.95	1.02
PPIG	1.01	0.94	0.96	0.95	0.93
BSG	1.73	1.87	1.64	0.95	1.08

VKORC1	1.28	1.34	1.21	0.95	1.05
IFNAR1	0.60	0.59	0.57	0.95	0.99
RWDD1	1.62	1.53	1.53	0.95	0.94
AVPI1	1.29	1.55	1.22	0.95	1.21
ALKBH7	1.00	1.06	0.94	0.95	1.06
TXNL1	0.92	0.79	0.87	0.95	0.86
PARVB	0.56	0.57	0.53	0.95	1.03
ATP5E	19.03	15.85	18.00	0.95	0.83
CAPZA2	2.21	1.84	2.09	0.95	0.83
S100A8	5.30	4.63	5.02	0.95	0.87
ZNF331	1.95	2.37	1.84	0.95	1.22
MIR22HG	0.57	0.51	0.54	0.95	0.89
PTPRC	1.20	1.06	1.13	0.95	0.89
RPS15A	24.74	19.03	23.38	0.94	0.77
NCOR1	0.71	0.69	0.67	0.94	0.96
CAPN2	0.87	0.88	0.82	0.94	1.01
FCER1G	22.47	20.48	21.19	0.94	0.91
TMEM205	0.54	0.50	0.51	0.94	0.92
CNDP2	1.10	1.18	1.04	0.94	1.07
ABHD12	0.96	1.16	0.91	0.94	1.20
MRPL34	0.90	0.93	0.85	0.94	1.04
AGTRAP	0.64	0.71	0.60	0.94	1.11
COA3	0.67	0.72	0.63	0.94	1.08
TNFAIP3	2.51	1.66	2.36	0.94	0.66
ZFAS1	4.21	3.40	3.96	0.94	0.81
PPDPF	3.31	3.52	3.11	0.94	1.07
PPP1R18	0.80	0.69	0.75	0.94	0.87
GPR183	3.68	2.05	3.45	0.94	0.56
NDUFV1	0.61	0.55	0.57	0.94	0.90
CD151	0.82	0.97	0.77	0.94	1.18
TAPBP	0.98	1.01	0.92	0.94	1.04
SYNGR2	1.32	1.52	1.24	0.94	1.14
AFF4	0.59	0.54	0.55	0.94	0.91
EIF3G	1.49	1.41	1.39	0.94	0.95
PSMC2	0.59	0.57	0.55	0.94	0.96
P2RX4	0.84	0.92	0.79	0.94	1.10
PCBP1	3.54	2.91	3.31	0.94	0.82
SRI	1.23	1.11	1.15	0.94	0.90
SAP18	3.13	2.67	2.93	0.94	0.85
EFHD2	1.27	1.33	1.19	0.94	1.05
UBE2J1	0.88	0.83	0.82	0.94	0.94
MESDC2	0.61	0.57	0.57	0.94	0.94

CTSA	1.79	2.05	1.67	0.94	1.15
ABHD5	0.76	0.91	0.71	0.93	1.21
GDE1	0.55	0.46	0.52	0.93	0.83
PRDX3	1.43	1.19	1.34	0.93	0.83
VPS35	0.92	0.82	0.86	0.93	0.89
NUTF2	0.90	0.82	0.84	0.93	0.91
CXCL16	2.35	2.17	2.19	0.93	0.93
COX7C	8.05	7.04	7.51	0.93	0.87
C19orf24	0.96	1.15	0.89	0.93	1.21
IFNGR1	1.48	1.14	1.38	0.93	0.77
HCLS1	0.91	0.83	0.85	0.93	0.90
RSU1	0.75	0.66	0.70	0.93	0.88
SCAF11	1.03	0.96	0.96	0.93	0.94
B4GALT1	0.99	1.10	0.92	0.93	1.11
RPL6	14.37	14.08	13.40	0.93	0.98
SPCS1	2.12	2.10	1.97	0.93	0.99
CLTC	1.14	1.01	1.06	0.93	0.89
RPS12	46.72	41.70	43.51	0.93	0.89
TOP1	0.95	0.90	0.88	0.93	0.94
IQGAP1	1.73	1.46	1.61	0.93	0.84
COMT	2.21	2.31	2.06	0.93	1.04
GSTO1	6.29	5.68	5.85	0.93	0.90
HNRNPA3	1.96	1.63	1.82	0.93	0.84
RTN4	4.58	4.28	4.26	0.93	0.93
ZFP36	4.73	4.37	4.39	0.93	0.92
DHX36	0.64	0.52	0.59	0.93	0.82
CDC42	4.49	4.66	4.16	0.93	1.04
TMEM14B	1.46	1.55	1.35	0.93	1.06
HTATIP2	0.86	0.97	0.80	0.93	1.12
LGALS9	1.30	1.29	1.20	0.93	1.00
ARHGDIB	3.86	3.52	3.59	0.93	0.91
TERF2IP	0.60	0.49	0.56	0.93	0.81
RAB13	2.15	1.85	1.99	0.93	0.86
MAP3K2	0.71	0.66	0.66	0.93	0.93
LCP1	2.32	1.95	2.15	0.93	0.84
VAMP3	0.71	0.63	0.66	0.93	0.89
RPN2	1.38	1.15	1.27	0.93	0.84
GTF2H5	0.97	0.92	0.90	0.93	0.95
CD53	2.70	2.08	2.50	0.93	0.77
PGAM1	2.02	2.00	1.87	0.93	0.99
RAP1A	2.26	2.01	2.09	0.92	0.89
RAB4A	0.72	0.67	0.66	0.92	0.93

VPS29	2.18	1.78	2.01	0.92	0.81
RPL4	7.90	7.42	7.29	0.92	0.94
ACTR3	2.13	2.14	1.96	0.92	1.00
IGSF6	1.99	1.88	1.83	0.92	0.95
ARPP19	0.67	0.53	0.62	0.92	0.79
C14orf166	1.52	1.41	1.40	0.92	0.93
PSMC6	0.62	0.44	0.57	0.92	0.71
RNF114	0.62	0.49	0.57	0.92	0.78
BAG1	1.03	1.12	0.95	0.92	1.09
SLC16A3	1.49	1.46	1.37	0.92	0.98
C1orf122	0.72	0.83	0.67	0.92	1.14
TM9SF3	0.63	0.55	0.58	0.92	0.86
GLUL	15.09	19.16	13.86	0.92	1.27
LARP7	0.57	0.47	0.52	0.92	0.82
NDUFS8	1.59	1.50	1.46	0.92	0.94
PGLS	1.68	1.75	1.54	0.92	1.04
ZNHIT1	1.46	1.48	1.34	0.92	1.01
ATP6V1G1	5.52	4.97	5.07	0.92	0.90
PSMB4	0.79	0.68	0.72	0.92	0.86
C1orf43	1.85	1.92	1.70	0.92	1.04
NDUFB3	1.63	1.37	1.50	0.92	0.84
RAB21	0.58	0.53	0.53	0.92	0.90
NAA10	0.72	0.72	0.66	0.92	1.00
SET	1.63	1.80	1.49	0.92	1.11
BTF3	6.86	5.88	6.29	0.92	0.86
CYB5R4	0.59	0.63	0.54	0.92	1.06
CELF1	0.64	0.48	0.58	0.92	0.75
C19orf43	2.36	2.22	2.16	0.91	0.94
AKR1A1	1.68	1.82	1.54	0.91	1.08
BST2	1.50	1.35	1.37	0.91	0.90
EMP3	9.09	8.32	8.30	0.91	0.92
CNPY3	1.25	1.30	1.14	0.91	1.04
FIBP	0.91	1.04	0.83	0.91	1.15
CD46	0.63	0.47	0.58	0.91	0.74
NAA20	0.93	0.88	0.85	0.91	0.95
HDLBP	0.72	0.82	0.66	0.91	1.14
PDE4DIP	0.77	0.67	0.70	0.91	0.87
ANXA1	9.39	6.26	8.56	0.91	0.67
RPL30	21.44	18.32	19.53	0.91	0.85
ST13	2.20	2.03	2.01	0.91	0.92
STAT3	0.66	0.71	0.60	0.91	1.08
LSM3	1.75	1.67	1.59	0.91	0.96

UBA52	17.60	16.13	16.02	0.91	0.92
CCDC88A	1.46	1.37	1.33	0.91	0.94
GBAS	0.62	0.55	0.56	0.91	0.89
TGOLN2	1.33	1.17	1.21	0.91	0.88
CHMP2A	1.54	1.36	1.40	0.91	0.88
EIF3A	1.22	1.12	1.11	0.91	0.92
BCKDK	0.65	0.66	0.59	0.91	1.02
DCTN3	0.72	0.66	0.65	0.91	0.92
SYK	0.57	0.56	0.52	0.91	0.98
QKI	1.20	1.03	1.09	0.91	0.86
RPL27A	27.86	25.77	25.24	0.91	0.93
ARPC3	10.11	9.30	9.16	0.91	0.92
RPL26L1	0.68	0.58	0.61	0.91	0.85
RIT1	0.59	0.58	0.54	0.90	0.98
SDHD	0.93	0.85	0.84	0.90	0.92
SP100	0.78	0.63	0.71	0.90	0.81
OST4	4.99	4.79	4.51	0.90	0.96
ARL8B	1.02	0.91	0.92	0.90	0.89
UBE2R2	0.87	0.72	0.79	0.90	0.82
RPS6	27.54	24.11	24.88	0.90	0.88
MAT2A	0.82	0.90	0.74	0.90	1.09
ACAA2	0.61	0.66	0.55	0.90	1.08
IRAK1	0.72	0.69	0.65	0.90	0.97
UBE2E1	0.71	0.59	0.64	0.90	0.83
JUNB	6.38	6.43	5.76	0.90	1.01
NDUFB1	2.12	1.75	1.91	0.90	0.83
MTCH2	1.03	0.97	0.93	0.90	0.94
NDUFB6	1.24	1.00	1.12	0.90	0.80
CEP170	0.64	0.52	0.58	0.90	0.82
EPAS1	0.56	0.63	0.51	0.90	1.13
RAB1A	2.48	2.03	2.24	0.90	0.82
CHCHD1	0.83	0.72	0.75	0.90	0.87
NDUFB4	1.65	1.33	1.49	0.90	0.81
RAB2A	1.45	1.23	1.31	0.90	0.85
FAM177A1	0.75	0.76	0.67	0.90	1.02
SUMO2	4.55	4.21	4.10	0.90	0.93
BLVRA	1.02	0.91	0.91	0.90	0.90
PRDX6	1.92	1.74	1.73	0.90	0.91
FUNDC2	0.58	0.54	0.52	0.90	0.93
EEF2	4.16	4.00	3.74	0.90	0.96
PDCD6IP	0.78	0.70	0.71	0.90	0.89
RPL23	13.31	11.25	11.97	0.90	0.85

SRSF5		1.80	1.54	1.62	0.90	0.86
LACTB		1.28	1.24	1.15	0.90	0.97
RAB9A		0.59	0.47	0.53	0.90	0.80
ABL2		1.49	1.21	1.34	0.90	0.81
RPS11		14.27	12.59	12.82	0.90	0.88
GYPC		1.03	1.14	0.92	0.90	1.11
GMFG		2.79	2.46	2.50	0.90	0.88
SLC25A39		0.61	0.79	0.54	0.90	1.30
RPL13A		43.02	38.34	38.56	0.90	0.89
CNBP		2.80	2.60	2.51	0.90	0.93
TRAPPC2L		1.09	1.01	0.98	0.90	0.92
LINC01420		1.01	1.15	0.91	0.90	1.14
UBXN1		1.61	1.42	1.44	0.89	0.88
	15-Sep	2.16	1.89	1.93	0.89	0.87
RPL22L1		1.82	1.71	1.63	0.89	0.94
SKP1		2.96	2.44	2.64	0.89	0.83
SDF4		0.80	0.83	0.71	0.89	1.05
RPS9		22.55	21.28	20.17	0.89	0.94
SPAG9		0.57	0.48	0.51	0.89	0.84
RSL1D1		1.19	0.99	1.06	0.89	0.84
EIF2S3		0.64	0.63	0.57	0.89	0.98
UBL3		0.58	0.49	0.52	0.89	0.84
SSU72		1.46	1.54	1.30	0.89	1.06
MYL6		23.66	21.05	21.11	0.89	0.89
CAMTA1		1.21	0.98	1.08	0.89	0.81
CORO1C		1.86	1.86	1.66	0.89	1.00
ITPA		0.57	0.56	0.51	0.89	0.99
NCEH1		0.87	0.82	0.77	0.89	0.94
VPS28		1.40	1.39	1.24	0.89	1.00
LUC7L3		0.72	0.51	0.64	0.89	0.71
ATP5C1		1.84	1.69	1.64	0.89	0.92
COMMD6		3.96	3.50	3.53	0.89	0.88
MOB1A		1.89	1.82	1.68	0.89	0.96
RPL24		12.30	10.47	10.96	0.89	0.85
RPS8		24.37	20.61	21.69	0.89	0.85
CSGALNACT2		0.70	0.46	0.62	0.89	0.66
RPS13		24.80	20.26	22.07	0.89	0.82
PPP1R11		0.59	0.67	0.52	0.89	1.14
LEPROT		1.34	1.08	1.19	0.89	0.81
EMC4		0.79	0.66	0.70	0.89	0.84
HSPB11		0.58	0.50	0.51	0.89	0.88
TANK		0.66	0.49	0.59	0.89	0.73

MRPS16	0.98	1.02	0.87	0.89	1.05
TMEM126B	0.60	0.57	0.53	0.89	0.95
RRAGC	0.58	0.51	0.51	0.89	0.88
DYNLL1	6.17	5.62	5.48	0.89	0.91
NDUFB9	2.66	2.43	2.36	0.89	0.91
TMBIM1	0.86	0.83	0.76	0.89	0.96
SYNCRIP	0.76	0.74	0.67	0.89	0.98
HSPA1A	3.63	0.84	3.22	0.89	0.23
ATP13A3	1.16	0.92	1.03	0.89	0.79
PPA2	0.65	0.67	0.58	0.88	1.04
SF3B6	1.94	1.56	1.72	0.88	0.81
NDUFS7	1.90	1.69	1.68	0.88	0.89
RIOK3	0.61	0.59	0.54	0.88	0.96
EIF4A1	1.40	1.22	1.24	0.88	0.87
PKM	3.67	3.74	3.25	0.88	1.02
KPNB1	0.73	0.60	0.65	0.88	0.82
SELT	1.94	1.75	1.72	0.88	0.90
BANF1	0.94	0.94	0.83	0.88	0.99
UFC1	1.43	1.43	1.26	0.88	1.00
CHMP4A	0.85	0.78	0.75	0.88	0.92
RAN	3.38	2.96	2.98	0.88	0.88
IAH1	0.92	0.84	0.81	0.88	0.92
HP1BP3	0.57	0.52	0.51	0.88	0.90
RPS16	25.50	24.10	22.47	0.88	0.94
RPL21	39.49	31.30	34.79	0.88	0.79
LDHA	4.22	3.96	3.71	0.88	0.94
CAPZA1	1.82	1.88	1.60	0.88	1.03
TXNDC12	0.64	0.58	0.56	0.88	0.90
RPL10A	15.56	14.02	13.69	0.88	0.90
RAB5C	2.08	2.01	1.83	0.88	0.97
LINC00493	1.21	0.97	1.07	0.88	0.79
UBE2D1	0.98	0.86	0.86	0.88	0.88
PRPF40A	0.84	0.70	0.74	0.88	0.83
GGCT	0.72	0.74	0.64	0.88	1.01
GPSM3	1.62	1.74	1.42	0.88	1.07
ERP29	1.57	1.59	1.38	0.88	1.01
PEPD	1.14	0.95	1.00	0.88	0.83
CTSD	36.14	44.03	31.71	0.88	1.22
ATP5J	3.83	3.55	3.36	0.88	0.93
ARPC1B	6.79	8.11	5.95	0.88	1.19
MBNL1	1.12	0.88	0.98	0.88	0.79
NDUFS3	0.76	0.68	0.67	0.88	0.89

RAB14	0.60	0.47	0.53	0.87	0.78
LAIR1	1.38	1.47	1.21	0.87	1.06
YWHAB	3.35	2.80	2.93	0.87	0.84
DRAP1	1.15	1.12	1.00	0.87	0.97
POMP	6.92	5.84	6.04	0.87	0.84
GSPT1	0.84	0.87	0.74	0.87	1.04
C19orf60	1.84	1.89	1.61	0.87	1.03
POLR2F	0.85	0.78	0.75	0.87	0.92
LDHB	1.20	1.18	1.05	0.87	0.98
CMPK1	1.15	1.04	1.00	0.87	0.91
BABAM1	0.58	0.56	0.50	0.87	0.96
CISD3	0.94	1.13	0.82	0.87	1.21
PABPC1	7.74	7.43	6.74	0.87	0.96
LST1	3.56	3.56	3.10	0.87	1.00
XRN2	0.69	0.63	0.60	0.87	0.91
PTPMT1	0.64	0.76	0.55	0.87	1.20
BNIP2	0.88	0.71	0.77	0.87	0.81
GTF3C6	1.97	1.96	1.71	0.87	0.99
RPL3	19.34	17.88	16.80	0.87	0.92
RTN3	1.12	0.99	0.97	0.87	0.88
RPL29	17.42	15.39	15.11	0.87	0.88
VDAC2	2.30	1.97	1.99	0.87	0.86
BASP1	2.09	1.76	1.81	0.87	0.84
ATP6V1D	1.00	0.91	0.86	0.87	0.92
TMEM256	0.87	0.75	0.75	0.87	0.86
KCNMA1	1.44	0.87	1.24	0.86	0.60
PDIA3	2.33	1.87	2.01	0.86	0.80
NFKBIA	12.20	8.00	10.55	0.86	0.66
ARL5A	0.89	0.86	0.77	0.86	0.96
RIPK2	0.83	0.59	0.71	0.86	0.72
PLP2	1.35	1.29	1.17	0.86	0.95
RPL11	26.16	23.05	22.57	0.86	0.88
ATP2A2	0.69	0.60	0.59	0.86	0.87
VMA21	1.45	1.33	1.26	0.86	0.91
RNPS1	0.76	0.67	0.65	0.86	0.89
ATG3	1.15	0.98	0.99	0.86	0.85
SDCBP	7.91	5.79	6.82	0.86	0.73
ACTR2	2.57	2.10	2.21	0.86	0.82
TXNDC17	1.98	1.72	1.71	0.86	0.87
PSMB5	0.93	0.80	0.80	0.86	0.86
DCTN6	0.67	0.49	0.57	0.86	0.74
H2AFJ	1.71	1.32	1.47	0.86	0.77

EIF3F	1.77	1.74	1.52	0.86	0.98
PTP4A2	1.30	1.33	1.12	0.86	1.02
NCL	1.55	1.31	1.33	0.86	0.85
COX4I1	8.54	8.29	7.35	0.86	0.97
HADHB	0.95	0.79	0.82	0.86	0.83
HNRNPAB	0.79	0.66	0.68	0.86	0.84
ANXA5	8.79	6.61	7.56	0.86	0.75
SCAMP2	0.66	0.63	0.57	0.86	0.96
NR4A2	2.32	2.08	2.00	0.86	0.89
HNRNPR	0.77	0.58	0.66	0.86	0.75
PSMA7	8.83	8.06	7.59	0.86	0.91
SRRM2	0.82	0.67	0.70	0.86	0.82
TCEB2	6.97	6.00	5.98	0.86	0.86
SHFM1	2.37	1.95	2.03	0.86	0.82
HIGD2A	2.58	2.45	2.22	0.86	0.95
RPS4Y1	0.75	0.23	0.64	0.86	0.31
RPS7	16.43	14.32	14.09	0.86	0.87
AQP9	1.21	1.10	1.04	0.86	0.91
MIEN1	0.86	0.98	0.74	0.86	1.14
RAB18	0.79	0.66	0.68	0.86	0.83
H3F3A	16.35	14.81	14.01	0.86	0.91
RAB6A	0.59	0.52	0.50	0.86	0.88
NDUFB10	1.79	1.86	1.53	0.86	1.04
COLGALT1	0.74	0.78	0.63	0.86	1.06
MGST3	5.77	4.35	4.94	0.86	0.75
FBP1	6.57	7.79	5.62	0.86	1.19
STOML2	0.70	0.74	0.60	0.86	1.05
RPL32	34.58	25.85	29.59	0.86	0.75
NDUFA4	7.66	6.48	6.55	0.86	0.85
SSR4	4.41	3.99	3.77	0.86	0.90
SLC25A5	4.74	4.55	4.05	0.85	0.96
PLEKHB2	1.68	1.60	1.43	0.85	0.95
PFDN5	11.74	10.69	10.03	0.85	0.91
ZEB2	2.26	1.82	1.93	0.85	0.80
ATP5L	7.89	6.50	6.73	0.85	0.82
NONO	0.63	0.48	0.54	0.85	0.76
CMTM6	1.84	1.52	1.57	0.85	0.83
TMEM230	1.71	1.72	1.46	0.85	1.01
BID	0.99	1.04	0.85	0.85	1.04
ARF1	2.89	2.81	2.46	0.85	0.98
UBC	6.67	4.97	5.69	0.85	0.74
PAK2	1.04	0.90	0.89	0.85	0.86

TFEC	0.62	0.60	0.53	0.85	0.97
ARPC5	5.51	4.81	4.70	0.85	0.87
KMT2E	0.84	0.61	0.72	0.85	0.72
CDV3	1.15	0.92	0.98	0.85	0.80
ERH	1.94	1.55	1.65	0.85	0.80
PARK7	2.94	2.74	2.50	0.85	0.93
PSMG2	0.92	0.80	0.78	0.85	0.87
HNRNPD	0.68	0.52	0.57	0.85	0.77
MYH9	0.80	0.74	0.68	0.85	0.93
FNBP1	0.62	0.52	0.52	0.85	0.84
H2AFY	5.91	4.81	5.02	0.85	0.81
TAF1D	0.96	0.64	0.82	0.85	0.66
SLCO2B1	1.27	1.23	1.08	0.85	0.97
UBE2F	0.98	0.93	0.83	0.85	0.95
SSBP1	1.49	1.24	1.27	0.85	0.83
NDUFB7	2.84	2.58	2.41	0.85	0.91
RPS20	27.03	24.23	22.93	0.85	0.90
GNB2L1	12.05	10.62	10.23	0.85	0.88
EZR	1.58	1.17	1.34	0.85	0.74
YME1L1	0.75	0.63	0.63	0.85	0.84
MALAT1	218.64	219.14	185.37	0.85	1.00
KHDRBS1	0.99	0.82	0.84	0.85	0.83
AUP1	1.03	1.05	0.87	0.85	1.03
METRNL	0.70	0.54	0.59	0.85	0.78
RPL13	47.54	37.86	40.26	0.85	0.80
TKT	1.89	2.12	1.60	0.85	1.12
CBX3	1.15	0.91	0.98	0.85	0.79
EIF3I	1.15	1.07	0.97	0.85	0.93
TMEM208	0.98	0.91	0.83	0.85	0.92
UBE2L6	1.08	1.12	0.91	0.85	1.04
SRP72	0.88	0.84	0.74	0.85	0.96
UQCRH	6.04	6.02	5.11	0.85	1.00
NDUFA11	2.66	2.24	2.24	0.85	0.84
OSTF1	1.46	1.34	1.24	0.84	0.92
TMEM38B	0.66	0.69	0.56	0.84	1.05
HMGN3	1.19	1.19	1.01	0.84	1.00
HLA-B	26.27	22.16	22.17	0.84	0.84
SNX2	1.35	1.06	1.14	0.84	0.78
MAP1LC3B	2.63	2.02	2.22	0.84	0.77
EIF3M	1.37	1.10	1.15	0.84	0.80
DAZAP2	1.90	1.45	1.60	0.84	0.76
RPL19	27.10	24.43	22.85	0.84	0.90

FAU	19.02	15.46	16.02	0.84	0.81
AKAP13	1.67	1.54	1.41	0.84	0.92
PCBP2	2.62	2.24	2.21	0.84	0.85
VDAC1	2.42	2.46	2.04	0.84	1.02
ATP5H	2.59	2.25	2.18	0.84	0.87
YWHAZ	3.52	2.84	2.96	0.84	0.81
COX20	0.84	0.75	0.70	0.84	0.90
RPS17	24.11	18.90	20.23	0.84	0.78
LYPLA1	0.78	0.73	0.65	0.84	0.94
FAM49A	0.84	0.67	0.70	0.84	0.80
DPP7	1.91	1.91	1.60	0.84	1.00
TCF25	0.95	0.79	0.79	0.84	0.84
C16orf13	0.97	0.75	0.81	0.84	0.77
PRPF38B	0.74	0.57	0.62	0.84	0.77
PICALM	0.97	0.79	0.81	0.84	0.82
NFKB1	0.78	0.53	0.66	0.84	0.68
RPL34	29.93	20.18	25.07	0.84	0.67
OPN3	0.88	0.76	0.73	0.84	0.87
RENBP	0.63	0.52	0.53	0.84	0.83
HDDC2	0.80	0.85	0.67	0.84	1.05
PLIN2	8.55	6.43	7.16	0.84	0.75
YWHAE	1.84	1.63	1.54	0.84	0.89
COPA	0.63	0.53	0.53	0.84	0.84
WDR83OS	2.04	1.95	1.70	0.84	0.96
RPL15	25.86	23.03	21.60	0.84	0.89
PDIA6	2.50	2.04	2.09	0.84	0.81
UQCRC1	1.10	0.96	0.92	0.84	0.87
RSRC2	0.71	0.54	0.60	0.83	0.76
SERF2	25.98	26.22	21.68	0.83	1.01
LSM1	0.76	0.74	0.63	0.83	0.97
PAFAH1B1	0.61	0.48	0.50	0.83	0.79
COX5A	3.96	3.60	3.30	0.83	0.91
GHITM	1.72	1.58	1.43	0.83	0.92
DBNL	0.79	0.78	0.65	0.83	0.99
ACP5	9.30	8.35	7.74	0.83	0.90
MORF4L1	3.06	2.49	2.55	0.83	0.81
HPCAL1	0.87	0.86	0.72	0.83	0.99
PSMB6	1.74	1.59	1.45	0.83	0.91
DUSP3	0.75	0.64	0.62	0.83	0.85
C1QA	18.95	18.21	15.75	0.83	0.96
EDF1	3.30	2.98	2.74	0.83	0.90
RNH1	2.68	2.66	2.23	0.83	0.99

TOMM7	4.81	3.64	4.00	0.83	0.76
ATP6V0B	8.15	7.53	6.76	0.83	0.92
TCIRG1	0.89	0.82	0.74	0.83	0.92
RNF7	2.13	2.07	1.77	0.83	0.97
MRPL13	0.70	0.60	0.58	0.83	0.85
IER3IP1	0.72	0.67	0.60	0.83	0.93
GLTSCR2	1.91	1.83	1.58	0.83	0.96
UBALD2	0.69	0.56	0.57	0.83	0.80
TMEM33	0.71	0.61	0.59	0.83	0.86
PGK1	3.05	2.29	2.53	0.83	0.75
ELL2	1.64	1.30	1.36	0.83	0.79
G3BP1	0.64	0.48	0.53	0.83	0.75
AAED1	0.97	0.88	0.80	0.83	0.91
GNAI3	0.95	0.84	0.79	0.83	0.88
ISCA1	0.63	0.53	0.52	0.83	0.85
PLXDC2	1.32	1.15	1.09	0.83	0.88
SNRPC	1.01	0.87	0.83	0.83	0.86
PA2G4	0.89	0.80	0.74	0.83	0.89
SUPT4H1	1.31	1.08	1.08	0.83	0.83
TRAPPC3	0.87	0.89	0.72	0.82	1.02
CANX	2.09	1.99	1.72	0.82	0.95
MRPL57	1.37	1.26	1.13	0.82	0.92
S100A11	36.22	34.24	29.82	0.82	0.95
HAVCR2	0.98	0.97	0.81	0.82	0.99
C11orf73	0.72	0.59	0.59	0.82	0.82
TRA2B	0.96	0.75	0.79	0.82	0.78
ZBTB8OS	0.90	0.83	0.74	0.82	0.93
HSPA8	4.02	3.53	3.30	0.82	0.88
COX7A2	7.18	5.83	5.89	0.82	0.81
FNDC3B	0.97	0.91	0.80	0.82	0.94
RAP1B	0.85	0.71	0.70	0.82	0.84
SUGT1	0.62	0.49	0.51	0.82	0.79
MAF1	0.89	0.93	0.73	0.82	1.04
ECHDC1	0.64	0.52	0.53	0.82	0.81
FAM50A	1.04	1.06	0.85	0.82	1.01
SIVA1	0.97	0.94	0.79	0.82	0.97
GLRX3	0.78	0.70	0.64	0.82	0.90
MTPN	1.35	1.15	1.11	0.82	0.85
DDIT4	1.11	0.54	0.91	0.82	0.49
MINOS1	3.30	2.81	2.70	0.82	0.85
EIF4H	0.73	0.63	0.60	0.82	0.86
METAP2	0.72	0.56	0.59	0.82	0.78

SRRM1	1.36	1.14	1.11	0.82	0.84
PSMB1	2.67	2.13	2.18	0.82	0.80
UBE2D2	1.79	1.63	1.46	0.82	0.91
EEF1D	6.84	6.10	5.58	0.82	0.89
PRR13	2.49	2.35	2.03	0.82	0.94
RBM17	0.81	0.68	0.66	0.82	0.83
ADPGK	0.76	0.68	0.62	0.82	0.89
KIF5B	1.52	1.30	1.24	0.81	0.85
FUS	1.27	1.31	1.03	0.81	1.04
TXN2	0.64	0.64	0.52	0.81	1.00
SNX17	0.76	0.78	0.61	0.81	1.03
NDUFB11	2.41	1.96	1.96	0.81	0.81
ARFGAP3	0.70	0.54	0.57	0.81	0.77
STX12	0.69	0.51	0.56	0.81	0.74
LEPROTL1	1.22	0.95	0.99	0.81	0.77
HNRNPK	2.58	1.95	2.10	0.81	0.76
ZNF706	4.64	4.26	3.77	0.81	0.92
LAMTOR4	3.29	2.98	2.67	0.81	0.90
KLF9	0.71	0.42	0.58	0.81	0.59
DDX3X	1.68	1.34	1.36	0.81	0.80
CD163	5.20	3.26	4.22	0.81	0.63
NDUFAB1	2.20	1.81	1.79	0.81	0.82
SEC62	2.38	1.72	1.93	0.81	0.72
UBE2K	0.86	0.75	0.70	0.81	0.86
TOMM40	0.86	1.01	0.70	0.81	1.17
RPL18A	32.01	26.05	25.93	0.81	0.81
BAZ1A	1.08	0.88	0.88	0.81	0.81
NDUFB8	2.11	1.92	1.70	0.81	0.91
CCT8	1.00	0.78	0.81	0.81	0.78
DNAJC8	0.94	0.68	0.76	0.81	0.72
TPI1	4.86	3.95	3.92	0.81	0.81
FCGR3A	3.61	2.81	2.91	0.81	0.78
KLF4	4.16	3.86	3.36	0.81	0.93
NUCB1	0.90	1.16	0.72	0.81	1.29
CHCHD2	8.36	7.48	6.74	0.81	0.89
MAPRE1	0.98	0.78	0.79	0.81	0.80
LMAN2	1.40	1.40	1.13	0.81	1.00
GCHFR	6.65	8.09	5.35	0.81	1.22
LAMTOR3	0.68	0.53	0.55	0.81	0.78
MRPL12	0.81	0.81	0.65	0.80	1.00
RPL39	33.59	22.31	27.02	0.80	0.66
CHCHD10	3.59	3.86	2.89	0.80	1.08

KCNAB2	0.71	0.68	0.57	0.80	0.96
MRPS12	0.74	0.72	0.59	0.80	0.98
ECHS1	0.82	0.69	0.66	0.80	0.84
C14orf2	4.26	3.07	3.42	0.80	0.72
EVI2B	1.88	1.18	1.51	0.80	0.63
DUT	0.86	0.74	0.69	0.80	0.87
RBM25	0.92	0.75	0.74	0.80	0.81
CLTB	1.07	1.00	0.86	0.80	0.93
HSD17B12	0.71	0.57	0.57	0.80	0.79
KDELR2	2.25	2.49	1.81	0.80	1.10
COX8A	5.76	5.42	4.62	0.80	0.94
MZT2B	1.33	1.42	1.07	0.80	1.07
THEMIS2	0.82	0.79	0.66	0.80	0.96
DECR1	0.87	0.78	0.70	0.80	0.89
HSP90AB1	4.59	3.35	3.68	0.80	0.73
CORO1B	0.75	0.81	0.60	0.80	1.07
RNF213	0.72	0.72	0.57	0.80	1.01
TUBB	3.48	3.08	2.78	0.80	0.89
SLC7A7	1.94	1.97	1.55	0.80	1.01
COX7A2L	1.81	1.60	1.45	0.80	0.88
LRP1	0.80	0.76	0.64	0.80	0.95
CKS2	1.03	0.71	0.83	0.80	0.68
CCNL1	1.29	1.14	1.03	0.80	0.89
FKBP1A	4.87	4.56	3.89	0.80	0.94
NEDD8	3.40	3.17	2.71	0.80	0.93
CCDC124	0.63	0.57	0.50	0.80	0.91
IL1RN	1.74	1.78	1.39	0.80	1.02
IFI6	4.65	4.10	3.71	0.80	0.88
TMEM261	0.66	0.65	0.53	0.80	0.99
TWF2	0.84	0.80	0.67	0.80	0.95
TRAM1	1.44	1.30	1.15	0.80	0.90
MRPS18C	0.73	0.60	0.58	0.80	0.82
CWC15	0.83	0.72	0.66	0.80	0.87
RHEB	3.55	3.13	2.83	0.80	0.88
IFNGR2	1.96	1.39	1.56	0.80	0.71
DYNLRB1	1.81	1.71	1.44	0.80	0.94
COX5B	5.31	4.38	4.22	0.80	0.83
ZC3H15	1.22	1.10	0.97	0.80	0.90
TUBA1C	1.97	1.69	1.57	0.79	0.86
YIF1A	0.79	0.73	0.63	0.79	0.92
DUSP1	13.46	10.43	10.69	0.79	0.78
PAG1	0.75	0.55	0.60	0.79	0.73

RPL23A	20.75	16.93	16.47	0.79	0.82
EIF1	23.63	20.90	18.76	0.79	0.88
BZW1	1.32	0.87	1.04	0.79	0.66
ERP44	1.06	0.91	0.84	0.79	0.86
FUOM	1.39	1.30	1.10	0.79	0.93
CHMP2B	0.92	0.66	0.73	0.79	0.71
MTHFD2	0.89	0.86	0.70	0.79	0.97
SLC16A6	0.69	0.36	0.55	0.79	0.52
MAGOH	0.79	0.61	0.63	0.79	0.76
ATP5B	2.55	2.11	2.02	0.79	0.83
APRT	2.85	2.54	2.26	0.79	0.89
HNRNPC	2.65	1.96	2.09	0.79	0.74
RPL28	36.45	30.19	28.80	0.79	0.83
PSMD4	0.75	0.67	0.60	0.79	0.88
M6PR	2.13	1.98	1.68	0.79	0.93
RPL27	19.00	14.60	15.01	0.79	0.77
RPS15	26.26	20.30	20.73	0.79	0.77
MRPS21	1.22	0.91	0.96	0.79	0.75
SRSF11	0.90	0.67	0.71	0.79	0.74
MDH2	1.36	1.41	1.08	0.79	1.03
PRRC2C	1.07	0.94	0.85	0.79	0.88
CUTA	1.94	1.50	1.53	0.79	0.78
RPS10	4.07	3.45	3.21	0.79	0.85
SLC25A24	0.70	0.55	0.55	0.79	0.78
C7orf50	1.04	1.29	0.82	0.79	1.24
RPS25	21.08	15.61	16.59	0.79	0.74
FBXW5	0.67	0.72	0.53	0.79	1.08
HMGB1	4.59	3.43	3.61	0.79	0.75
SMCO4	1.27	1.38	1.00	0.79	1.08
AP2S1	8.06	6.37	6.33	0.79	0.79
ADM	0.93	0.55	0.73	0.79	0.59
MSR1	3.54	3.80	2.78	0.79	1.07
YPEL5	0.94	0.77	0.74	0.78	0.81
KDM6B	0.88	0.76	0.69	0.78	0.87
DNASE2	0.79	0.75	0.62	0.78	0.95
DYNLT1	1.90	1.49	1.49	0.78	0.78
UBE2A	1.07	0.89	0.84	0.78	0.83
BTF3L4	1.02	0.75	0.80	0.78	0.74
XRCC6	0.95	0.71	0.74	0.78	0.75
POLR2L	3.46	2.47	2.71	0.78	0.71
MRPS36	1.04	0.80	0.81	0.78	0.77
LAMTOR2	2.35	2.19	1.84	0.78	0.93

TIMM8B	1.81	1.59	1.42	0.78	0.88
EIF4E2	0.78	0.68	0.61	0.78	0.87
NDUFA2	1.77	1.63	1.39	0.78	0.92
S100A4	26.66	20.91	20.86	0.78	0.78
RALY	0.74	0.76	0.58	0.78	1.03
NCF2	2.09	2.37	1.64	0.78	1.13
PSMD11	0.71	0.57	0.55	0.78	0.80
EIF1B	1.21	0.86	0.95	0.78	0.71
HSP90B1	4.62	3.27	3.61	0.78	0.71
STT3B	0.70	0.60	0.54	0.78	0.87
SNRPD3	1.13	0.90	0.88	0.78	0.79
SLC38A2	0.96	0.69	0.75	0.78	0.71
SUMO1	1.74	1.45	1.36	0.78	0.84
RAD23B	0.87	0.76	0.68	0.78	0.87
SF3B2	0.66	0.53	0.51	0.78	0.80
PSMD7	1.38	1.10	1.08	0.78	0.80
AZI2	0.86	0.71	0.67	0.78	0.83
BLOC1S1	3.88	3.61	3.02	0.78	0.93
SOCS3	2.09	2.02	1.62	0.78	0.97
CHP1	1.04	0.95	0.81	0.78	0.91
LSM4	1.30	1.25	1.01	0.78	0.96
PHB2	0.79	0.74	0.62	0.78	0.94
RABAC1	1.49	1.30	1.16	0.78	0.87
SKAP2	0.99	0.85	0.77	0.78	0.86
PSMC5	1.01	0.92	0.79	0.78	0.91
PPP1CB	1.74	1.14	1.36	0.78	0.65
GOLGA4	0.71	0.64	0.55	0.78	0.90
HSPA9	0.96	0.76	0.75	0.78	0.80
FOSL2	1.58	1.11	1.23	0.78	0.70
ANAPC16	1.63	1.41	1.27	0.78	0.87
XRCC5	0.94	0.75	0.73	0.78	0.79
GAPDH	18.70	16.08	14.54	0.78	0.86
C19orf53	2.37	2.32	1.84	0.78	0.98
PIN1	0.78	0.75	0.61	0.78	0.96
TOMM22	1.07	1.02	0.83	0.78	0.95
RPN1	1.25	1.07	0.97	0.78	0.85
ABRACL	1.77	1.86	1.38	0.78	1.05
UFD1L	0.69	0.65	0.53	0.78	0.94
NDUFA1	3.07	2.55	2.38	0.77	0.83
SSR2	1.77	1.64	1.37	0.77	0.93
SSB	1.49	1.02	1.16	0.77	0.68
EIF3K	4.11	3.59	3.19	0.77	0.87

CCDC109B	1.18	1.18	0.91	0.77	1.01
ORMDL2	1.12	1.07	0.87	0.77	0.95
SNRPD1	1.53	1.22	1.18	0.77	0.80
COX14	1.53	1.47	1.19	0.77	0.96
FGFR1OP2	0.81	0.71	0.63	0.77	0.88
ATP5I	3.20	2.60	2.48	0.77	0.81
CHCHD5	0.75	0.66	0.58	0.77	0.88
YWHAG	1.08	0.94	0.84	0.77	0.87
POLE4	1.59	1.38	1.23	0.77	0.87
ENY2	2.57	2.10	1.99	0.77	0.82
XIST	1.16	1.19	0.89	0.77	1.03
WBP5	0.85	0.50	0.66	0.77	0.58
GPX4	13.29	12.32	10.27	0.77	0.93
TCEB1	3.11	2.37	2.40	0.77	0.76
RPL8	25.80	21.91	19.89	0.77	0.85
EIF5B	1.05	0.98	0.81	0.77	0.93
MKKS	0.83	0.81	0.64	0.77	0.98
PSMD14	0.77	0.66	0.59	0.77	0.85
PDCD10	0.81	0.56	0.62	0.77	0.70
TNFRSF1A	0.91	0.66	0.70	0.77	0.72
COX7B	5.17	3.94	3.98	0.77	0.76
SF1	0.80	0.61	0.62	0.77	0.76
CAT	0.89	0.80	0.68	0.77	0.90
UBL5	4.59	3.73	3.53	0.77	0.81
MRPL20	1.97	1.77	1.51	0.77	0.90
UQCRFS1	1.74	1.35	1.34	0.77	0.78
CHURC1	0.74	0.50	0.57	0.77	0.67
LSM5	1.24	1.24	0.95	0.77	1.00
PCMT1	0.85	0.69	0.65	0.77	0.81
TIMM13	1.92	1.63	1.48	0.77	0.85
RPS5	16.76	14.04	12.85	0.77	0.84
UXT	1.92	1.53	1.47	0.77	0.80
SSNA1	0.91	0.98	0.69	0.77	1.08
ITGB2	2.97	2.27	2.28	0.77	0.76
SRSF2	1.98	1.80	1.52	0.77	0.91
RPS3	19.00	17.46	14.55	0.77	0.92
MRPL18	1.07	0.82	0.82	0.77	0.77
NDUFB2	5.39	4.81	4.13	0.77	0.89
P4HB	2.37	2.64	1.81	0.77	1.11
FCGRT	5.91	5.91	4.52	0.77	1.00
RPLP1	69.49	57.57	53.17	0.77	0.83
RNPEP	0.69	0.54	0.53	0.77	0.78

TCEAL4	0.85	0.60	0.65	0.76	0.71
OCIAD1	1.02	0.86	0.78	0.76	0.84
HN1	1.75	1.69	1.34	0.76	0.97
PSMA5	1.11	0.83	0.85	0.76	0.75
SARAF	4.38	3.42	3.35	0.76	0.78
WTAP	1.36	0.95	1.04	0.76	0.70
TIMP1	10.47	6.90	7.99	0.76	0.66
ZNF207	0.96	0.71	0.73	0.76	0.74
SNX3	5.97	5.43	4.55	0.76	0.91
LRRFIP1	4.23	3.22	3.22	0.76	0.76
RPS27L	7.28	5.76	5.54	0.76	0.79
MRPL27	0.74	0.74	0.56	0.76	1.01
RNF181	1.69	1.38	1.29	0.76	0.82
C1D	0.75	0.58	0.57	0.76	0.77
PAPOLA	1.76	1.37	1.34	0.76	0.78
NARS	0.73	0.57	0.55	0.76	0.78
VMP1	1.08	0.82	0.82	0.76	0.76
OS9	0.72	0.59	0.54	0.76	0.82
SNU13	2.01	1.61	1.53	0.76	0.80
SFT2D1	2.42	1.80	1.83	0.76	0.75
CHMP1B	2.11	1.72	1.60	0.76	0.81
MMADHC	0.73	0.56	0.55	0.76	0.76
JTB	2.75	2.77	2.09	0.76	1.00
C8orf59	1.30	1.07	0.98	0.76	0.82
SLTM	0.73	0.55	0.56	0.76	0.75
HNRNPF	1.47	1.12	1.11	0.76	0.76
RPSA	11.72	10.19	8.88	0.76	0.87
TBCB	1.03	0.87	0.78	0.76	0.85
MRPS34	0.81	0.74	0.62	0.76	0.91
PDCD5	0.93	0.88	0.70	0.76	0.95
PSME2	2.05	1.77	1.55	0.76	0.86
ETFA	0.94	0.71	0.71	0.76	0.75
CISD2	1.37	1.34	1.03	0.76	0.98
GADD45GIP1	2.15	1.58	1.63	0.76	0.74
CYBA	20.59	17.92	15.55	0.76	0.87
UBE2L3	1.94	1.54	1.47	0.76	0.79
CALR	5.67	5.11	4.28	0.76	0.90
EMC10	0.93	0.74	0.70	0.75	0.80
SSR1	1.33	1.13	1.00	0.75	0.85
RPL35	22.45	15.73	16.93	0.75	0.70
AP2M1	2.23	2.20	1.68	0.75	0.98
PSMA1	1.92	1.48	1.45	0.75	0.77

FLNA	2.16	2.02	1.63	0.75	0.93
GTF2A2	1.36	1.32	1.03	0.75	0.97
ANXA11	2.22	1.97	1.67	0.75	0.88
HNRNPA1	4.98	4.29	3.75	0.75	0.86
NDUFS6	2.88	2.34	2.17	0.75	0.81
BLVRB	3.72	3.29	2.80	0.75	0.88
HNRNPH3	0.70	0.44	0.52	0.75	0.63
HADHA	0.86	0.74	0.65	0.75	0.86
GRN	10.76	10.45	8.06	0.75	0.97
LSM6	1.06	1.00	0.80	0.75	0.94
LSM10	0.84	0.92	0.63	0.75	1.09
USP16	0.84	0.68	0.63	0.75	0.81
SPCS2	2.10	1.52	1.57	0.75	0.72
C11orf58	1.80	1.35	1.35	0.75	0.75
ZFAND6	1.18	0.82	0.88	0.75	0.69
KRTCAP2	1.11	0.98	0.83	0.75	0.89
MYEOV2	2.13	1.65	1.59	0.75	0.78
PMP22	2.16	1.61	1.61	0.75	0.75
MRPL33	1.26	0.90	0.94	0.75	0.71
COX17	2.46	1.86	1.83	0.75	0.76
C6orf62	1.28	0.99	0.96	0.75	0.78
CCT3	0.74	0.60	0.55	0.75	0.81
DDX46	0.88	0.76	0.65	0.75	0.87
MAPKAPK3	0.76	0.79	0.57	0.75	1.04
RPL36AL	7.74	6.10	5.77	0.75	0.79
NDUFC1	1.06	0.85	0.79	0.74	0.80
HLA-E	4.75	4.46	3.53	0.74	0.94
PNRC2	0.70	0.46	0.52	0.74	0.65
LAMTOR1	2.68	2.75	1.99	0.74	1.03
ATP6V1F	10.92	10.66	8.12	0.74	0.98
FAM133B	0.72	0.60	0.53	0.74	0.83
CIRBP	2.35	2.28	1.75	0.74	0.97
PET100	0.91	0.61	0.68	0.74	0.66
CDC42SE1	0.80	0.71	0.60	0.74	0.89
ENSA	1.32	1.24	0.98	0.74	0.94
RPS14	34.12	27.45	25.32	0.74	0.80
CIB1	2.34	2.14	1.74	0.74	0.91
CITED2	1.82	1.42	1.35	0.74	0.78
SRSF7	1.19	0.84	0.88	0.74	0.71
TGIF1	1.72	1.26	1.28	0.74	0.73
CCL7	1.27	0.75	0.94	0.74	0.59
MYL12A	7.29	4.54	5.41	0.74	0.62

APEX1	0.95	0.83	0.70	0.74	0.87
TMED2	2.04	2.03	1.51	0.74	0.99
H3F3B	16.97	12.93	12.57	0.74	0.76
MLEC	0.81	0.77	0.60	0.74	0.95
RPL35A	18.74	13.19	13.87	0.74	0.70
ATP2B1	1.50	1.07	1.11	0.74	0.71
ATP5G3	6.10	5.05	4.51	0.74	0.83
NDUFS5	4.46	3.41	3.30	0.74	0.76
HNRNPA2B1	3.99	2.68	2.94	0.74	0.67
RANBP1	1.74	1.50	1.28	0.74	0.86
C1QBP	1.48	1.12	1.09	0.74	0.75
CYTH1	0.73	0.40	0.54	0.74	0.54
SNX10	3.16	2.54	2.33	0.74	0.80
PTP4A1	0.94	0.67	0.69	0.74	0.71
CNPY2	0.85	0.78	0.62	0.74	0.92
DDX21	1.69	1.38	1.25	0.74	0.81
TMCO1	0.82	0.61	0.60	0.74	0.75
SLC25A6	7.32	6.31	5.38	0.74	0.86
RABGGTB	0.77	0.72	0.57	0.74	0.93
ANKRD28	1.28	0.86	0.94	0.74	0.67
UQCR11	5.12	3.99	3.76	0.73	0.78
COX6B1	6.05	4.71	4.44	0.73	0.78
TMEM30A	0.82	0.58	0.60	0.73	0.70
MRPS15	1.22	1.19	0.89	0.73	0.98
IVNS1ABP	0.93	0.54	0.68	0.73	0.58
PPIB	3.07	2.75	2.24	0.73	0.90
S100A6	64.24	49.06	46.89	0.73	0.76
PTPN6	1.07	0.78	0.78	0.73	0.73
RAD23A	1.55	1.48	1.13	0.73	0.96
GRB2	2.39	1.87	1.74	0.73	0.78
SUB1	3.98	2.87	2.91	0.73	0.72
REEP3	0.93	0.77	0.68	0.73	0.83
RP11-1143G9.4	3.19	3.47	2.33	0.73	1.09
LINC00152	0.69	0.57	0.50	0.73	0.83
ANKRD12	1.04	0.74	0.76	0.73	0.71
C4orf48	2.67	1.88	1.94	0.73	0.70
MCL1	7.20	5.19	5.23	0.73	0.72
RPL18	16.69	13.19	12.12	0.73	0.79
FAM173A	0.71	0.76	0.51	0.73	1.08
LPXN	0.91	0.69	0.66	0.73	0.76
NDUFA5	0.80	0.56	0.58	0.73	0.71
TIMM17A	0.96	0.68	0.70	0.72	0.70

SF3B1	0.97	0.57	0.70	0.72	0.59
PSMC1	0.93	0.75	0.67	0.72	0.81
ILF2	0.83	0.52	0.60	0.72	0.62
ANAPC11	2.39	2.15	1.73	0.72	0.90
OSTC	1.79	1.58	1.30	0.72	0.88
RPL37A	21.26	15.29	15.37	0.72	0.72
PCNP	0.93	0.67	0.67	0.72	0.72
GSTP1	6.63	5.83	4.79	0.72	0.88
EIF2S2	1.64	1.19	1.19	0.72	0.72
DDX5	5.08	3.58	3.66	0.72	0.71
ETFB	1.14	0.98	0.82	0.72	0.86
IRAK3	0.92	0.61	0.66	0.72	0.67
PYURF	1.38	1.30	1.00	0.72	0.94
UFM1	1.09	0.77	0.78	0.72	0.71
DDT	1.67	1.30	1.20	0.72	0.78
STOM	1.20	0.81	0.86	0.72	0.68
ARHGDIA	1.56	1.50	1.12	0.72	0.96
NAA38	1.06	0.81	0.76	0.72	0.76
PTPN12	0.77	0.55	0.55	0.72	0.71
TAX1BP1	1.82	1.34	1.31	0.72	0.74
NDUFA13	1.58	1.09	1.13	0.72	0.69
MRPL52	1.40	1.00	1.00	0.72	0.72
CCT4	1.14	0.79	0.82	0.72	0.70
MLF2	0.87	0.75	0.62	0.72	0.87
CDC26	0.81	0.59	0.58	0.72	0.72
SEC61B	5.80	4.83	4.15	0.72	0.83
PSMB2	1.35	1.02	0.97	0.72	0.76
SON	1.53	1.17	1.09	0.71	0.76
GLIPR2	2.97	3.32	2.12	0.71	1.12
TMEM165	1.08	1.05	0.77	0.71	0.97
GPBP1	0.81	0.56	0.58	0.71	0.69
NDUFA12	1.46	1.02	1.04	0.71	0.70
PSMB3	2.70	1.89	1.93	0.71	0.70
RMDN3	1.02	1.01	0.73	0.71	0.99
USMG5	4.88	3.32	3.48	0.71	0.68
RPL36	14.36	9.88	10.24	0.71	0.69
RPS18	48.36	37.09	34.46	0.71	0.77
HMGA1	1.62	1.40	1.16	0.71	0.87
UQCC2	1.19	0.90	0.85	0.71	0.76
CD164	3.54	2.79	2.52	0.71	0.79
STX11	1.14	0.95	0.81	0.71	0.83
RPLP2	38.82	27.19	27.59	0.71	0.70

CTSC	5.03	3.77	3.57	0.71	0.75
EIF1AX	2.25	1.79	1.60	0.71	0.80
CREM	2.78	2.29	1.97	0.71	0.82
EIF2A	0.83	0.66	0.59	0.71	0.80
CCT2	0.73	0.58	0.51	0.71	0.80
ACP1	0.95	0.79	0.68	0.71	0.83
GLRX	4.62	4.36	3.27	0.71	0.94
SRP19	0.91	0.69	0.65	0.71	0.76
HMGB2	1.59	0.87	1.13	0.71	0.55
RPL38	14.27	9.93	10.09	0.71	0.70
ATP1B3	6.25	6.21	4.41	0.71	0.99
RBM8A	2.03	1.40	1.43	0.71	0.69
TUFM	1.29	1.25	0.91	0.71	0.97
MRPL11	0.72	0.73	0.51	0.71	1.02
RANBP2	0.80	0.66	0.57	0.71	0.82
SPI1	3.01	2.63	2.12	0.70	0.87
PAIP2	1.53	1.17	1.08	0.70	0.77
PSMB9	1.03	0.86	0.72	0.70	0.84
RPL17	1.60	1.05	1.13	0.70	0.66
RPS2	48.26	43.85	33.92	0.70	0.91
RPS29	18.75	14.23	13.18	0.70	0.76
TMED9	1.38	1.15	0.97	0.70	0.83
HLA-C	15.21	14.09	10.68	0.70	0.93
SNRPB2	1.51	0.95	1.06	0.70	0.63
ERGIC1	0.79	0.72	0.55	0.70	0.92
FCGR2A	3.07	1.85	2.16	0.70	0.60
RPL31	16.24	11.33	11.39	0.70	0.70
SNRPG	2.97	2.05	2.08	0.70	0.69
HSP90AA1	12.03	5.84	8.42	0.70	0.49
SH2B3	0.76	0.49	0.53	0.70	0.64
BEX4	0.75	0.68	0.52	0.70	0.91
GAA	0.82	0.86	0.58	0.70	1.04
PSME1	2.25	1.79	1.57	0.70	0.79
MRPL51	1.87	1.47	1.30	0.70	0.79
CHD1	0.74	0.78	0.51	0.70	1.05
EIF4G2	3.30	2.52	2.29	0.70	0.76
PSMB7	1.26	1.03	0.88	0.70	0.82
BAX	2.17	1.94	1.51	0.70	0.89
SPCS3	2.26	1.80	1.57	0.70	0.79
TMA7	5.21	4.21	3.62	0.70	0.81
TMEM258	2.90	2.19	2.01	0.69	0.75
CSNK1A1	1.66	1.19	1.15	0.69	0.72

ACSL1	2.36	1.97	1.64	0.69	0.83
TPRKB	0.82	0.71	0.57	0.69	0.88
CCRL2	0.78	0.51	0.54	0.69	0.66
CYB5R3	0.81	0.63	0.56	0.69	0.78
CLIC1	7.16	5.80	4.97	0.69	0.81
PFN1	21.19	19.00	14.66	0.69	0.90
SF3B5	2.56	1.98	1.77	0.69	0.77
BNIP3L	2.25	1.24	1.56	0.69	0.55
SRSF9	1.46	1.36	1.01	0.69	0.93
NR4A3	1.13	0.87	0.78	0.69	0.77
ARL4A	2.71	2.27	1.87	0.69	0.84
PRELID3B	0.74	0.49	0.51	0.69	0.66
NFE2L2	1.71	1.01	1.18	0.69	0.59
TMEM123	2.11	1.34	1.46	0.69	0.63
SQSTM1	2.56	2.00	1.76	0.69	0.78
RPS19BP1	1.85	1.52	1.27	0.69	0.82
SRP9	1.30	1.14	0.89	0.69	0.88
ID2	2.56	2.52	1.76	0.69	0.99
BTG1	11.40	7.31	7.84	0.69	0.64
HNRNPU	1.57	1.07	1.08	0.69	0.68
SNRPF	1.59	1.13	1.09	0.69	0.71
BUD31	1.09	0.78	0.75	0.69	0.71
PSMA4	2.07	1.33	1.42	0.69	0.65
PPA1	0.96	0.71	0.66	0.69	0.74
PYCARD	2.63	2.83	1.81	0.69	1.08
GK	2.04	1.49	1.40	0.68	0.73
TMEM126A	1.00	0.84	0.68	0.68	0.83
IRF8	0.94	0.72	0.64	0.68	0.77
RTFDC1	0.76	0.64	0.52	0.68	0.83
PPP1CA	2.41	2.15	1.64	0.68	0.89
UQCR10	3.69	2.76	2.51	0.68	0.75
YWHAH	2.54	2.33	1.73	0.68	0.92
CALM1	9.70	7.44	6.59	0.68	0.77
SRM	0.75	0.78	0.51	0.68	1.05
DNAJA1	2.12	1.29	1.44	0.68	0.61
CCT5	1.40	1.07	0.95	0.68	0.76
PPP2CA	0.92	0.60	0.62	0.68	0.66
VIMP	1.61	1.32	1.09	0.68	0.82
UQCRQ	4.63	3.46	3.13	0.68	0.75
ETF1	1.13	0.83	0.76	0.67	0.74
IFI30	1.80	1.68	1.22	0.67	0.93
RPL37	18.42	12.22	12.41	0.67	0.66

PSMB8	1.13	1.00	0.76	0.67	0.88
RSL24D1	1.36	0.88	0.91	0.67	0.65
LMNA	5.91	3.85	3.98	0.67	0.65
SDC4	1.23	0.92	0.83	0.67	0.75
SNRPD2	3.19	2.47	2.14	0.67	0.77
IER2	0.94	0.55	0.63	0.67	0.58
C20orf24	1.99	1.79	1.34	0.67	0.90
ALDH2	2.44	2.60	1.64	0.67	1.07
PFDN2	2.10	1.37	1.41	0.67	0.65
BRD2	1.01	0.70	0.68	0.67	0.69
ABCG1	0.84	0.66	0.56	0.67	0.78
PTGES3	2.14	1.53	1.44	0.67	0.71
PGD	1.23	1.17	0.82	0.67	0.95
PDIA4	1.26	0.76	0.84	0.67	0.60
HNRNPA0	1.65	1.21	1.10	0.67	0.74
JOSD2	0.95	0.81	0.63	0.67	0.85
UGP2	1.51	0.95	1.00	0.67	0.63
MTCH1	1.09	0.93	0.73	0.67	0.86
ACSL3	1.11	0.87	0.74	0.67	0.78
PPP1R2	1.03	0.74	0.69	0.67	0.72
PPP1R15A	2.20	1.49	1.47	0.67	0.67
ATP6V0D1	2.60	2.01	1.73	0.67	0.77
MNDA	2.02	1.40	1.34	0.67	0.69
EIF6	1.08	0.82	0.72	0.67	0.75
UBE2D3	4.73	3.47	3.15	0.66	0.73
CKLF	1.98	1.56	1.31	0.66	0.79
HNRNPH1	1.19	1.01	0.79	0.66	0.85
RBM39	1.91	1.28	1.27	0.66	0.67
NUP214	0.85	0.59	0.57	0.66	0.69
PDXK	2.53	2.40	1.68	0.66	0.95
NINJ1	1.49	1.03	0.99	0.66	0.69
RASGEF1B	1.55	1.30	1.03	0.66	0.84
CYC1	1.25	1.04	0.83	0.66	0.83
ENO1	5.43	4.39	3.60	0.66	0.81
EMC6	0.87	0.73	0.58	0.66	0.84
SNRPB	1.58	1.23	1.04	0.66	0.78
NDUFV2	2.65	2.01	1.75	0.66	0.76
HNRNPDL	3.27	2.40	2.16	0.66	0.73
AIMP1	0.94	0.66	0.62	0.66	0.70
RPS19	43.97	34.19	29.00	0.66	0.78
SURF4	0.84	0.67	0.55	0.66	0.80
N4BP2L2	1.11	0.78	0.73	0.66	0.70

HNRNPM	1.14	0.78	0.75	0.66	0.69
NDUFA3	1.55	1.17	1.02	0.66	0.75
ARF6	2.06	1.58	1.35	0.66	0.77
SAR1A	0.99	0.65	0.65	0.66	0.65
MMP19	3.38	2.19	2.22	0.66	0.65
SCAND1	1.63	1.25	1.07	0.65	0.77
AURKAIP1	2.17	1.97	1.42	0.65	0.91
RNASEH2C	1.04	0.86	0.68	0.65	0.83
SMDT1	2.23	1.88	1.45	0.65	0.84
TMEM167A	2.14	1.84	1.40	0.65	0.86
FKBP2	2.04	1.59	1.33	0.65	0.78
ATP5G1	1.72	1.34	1.13	0.65	0.78
RBMX	0.82	0.63	0.53	0.65	0.77
STX4	1.06	0.80	0.69	0.65	0.75
NHP2	1.47	1.28	0.96	0.65	0.87
PHB	1.28	1.01	0.83	0.65	0.79
PLAUR	8.21	5.14	5.34	0.65	0.63
GNB2	2.15	1.81	1.40	0.65	0.84
GPCPD1	1.23	1.14	0.80	0.65	0.93
CCT6A	1.22	0.95	0.79	0.65	0.77
FAM96B	2.08	1.69	1.35	0.65	0.81
POLR2J	1.32	1.20	0.85	0.65	0.91
SLIRP	2.00	1.27	1.30	0.65	0.63
EIF4A3	1.24	0.69	0.80	0.65	0.56
POLR2I	0.88	0.66	0.57	0.65	0.75
ASNA1	0.79	0.74	0.51	0.65	0.93
HMGN2	3.18	2.86	2.05	0.65	0.90
NANS	1.16	0.91	0.75	0.64	0.79
HSPD1	1.91	1.14	1.23	0.64	0.60
C1QC	8.90	6.08	5.72	0.64	0.68
CXCL2	11.96	7.24	7.69	0.64	0.61
VSIG4	6.35	3.56	4.08	0.64	0.56
RAB11FIP1	0.95	0.57	0.61	0.64	0.60
SEC11C	1.65	1.45	1.05	0.64	0.88
SNF8	1.40	1.32	0.90	0.64	0.94
H2AFZ	4.41	3.10	2.82	0.64	0.70
ROMO1	1.34	0.92	0.86	0.64	0.69
TMEM251	1.11	1.00	0.71	0.64	0.90
PRELID1	2.74	2.40	1.75	0.64	0.88
CEBPB	12.92	8.24	8.24	0.64	0.64
IFITM3	2.54	1.69	1.62	0.64	0.67
SAT2	1.09	0.80	0.70	0.64	0.73

HSPH1	1.27	0.45	0.81	0.64	0.35
ATF4	1.95	1.64	1.24	0.64	0.84
COX6A1	4.77	3.82	3.03	0.64	0.80
RPS28	26.17	16.77	16.63	0.64	0.64
RPL41	43.40	27.52	27.54	0.63	0.63
PLSCR1	1.74	1.21	1.10	0.63	0.70
HMOX1	1.40	2.34	0.89	0.63	1.67
SBDS	0.92	0.59	0.58	0.63	0.64
STRAP	1.12	0.86	0.71	0.63	0.77
RPLP0	15.88	12.85	10.05	0.63	0.81
CSTA	2.37	2.02	1.50	0.63	0.85
TGFB1	1.04	0.78	0.66	0.63	0.75
G0S2	6.14	2.80	3.87	0.63	0.46
PSMD8	1.85	1.43	1.16	0.63	0.78
EIF5	2.71	1.78	1.71	0.63	0.65
MRPL41	1.82	1.52	1.15	0.63	0.84
POLR2E	1.16	0.92	0.73	0.63	0.80
RPL36A	3.41	1.77	2.15	0.63	0.52
SLC11A1	4.04	2.99	2.55	0.63	0.74
ORMDL1	0.96	0.81	0.60	0.63	0.84
SERP1	5.81	4.22	3.64	0.63	0.73
EIF4E	1.35	0.81	0.85	0.63	0.60
NME1	1.36	1.05	0.85	0.63	0.77
PSENEN	0.81	0.61	0.50	0.63	0.76
UBE2N	1.07	0.79	0.67	0.63	0.75
PPP4C	1.64	1.14	1.02	0.62	0.70
C11orf31	2.45	1.99	1.53	0.62	0.81
HBEGF	1.39	1.30	0.87	0.62	0.93
NOL7	0.83	0.61	0.52	0.62	0.73
SRSF3	2.49	1.65	1.55	0.62	0.66
HCK	0.92	0.78	0.57	0.62	0.85
UBB	8.41	6.07	5.23	0.62	0.72
ADRM1	1.25	0.94	0.78	0.62	0.75
TSPO	10.80	9.52	6.71	0.62	0.88
RSRP1	1.05	0.52	0.65	0.62	0.50
MGST1	1.39	1.22	0.86	0.62	0.88
EIF4EBP1	2.12	1.73	1.31	0.62	0.81
COPE	2.59	1.90	1.60	0.62	0.73
PSMA2	1.21	0.81	0.75	0.62	0.67
PHPT1	2.67	1.94	1.65	0.62	0.73
SNHG8	1.75	1.12	1.08	0.62	0.64
RPS27	36.51	23.31	22.52	0.62	0.64

ISG15	3.34	3.26	2.05	0.62	0.98
SNTB1	0.86	0.60	0.53	0.61	0.69
MIDN	0.97	0.63	0.60	0.61	0.65
PIM3	1.35	0.93	0.83	0.61	0.69
ATP5J2	2.87	2.00	1.75	0.61	0.70
PPARG	1.09	0.78	0.66	0.61	0.71
SERPINA1	2.67	2.12	1.62	0.61	0.79
ARF4	1.38	0.82	0.84	0.61	0.60
SEC61G	5.66	3.60	3.43	0.61	0.64
ALOX5	1.33	1.01	0.80	0.61	0.76
DNAJB6	2.11	1.23	1.28	0.61	0.58
GABARAPL1	1.20	0.91	0.72	0.60	0.76
HSPA5	2.88	1.52	1.73	0.60	0.53
ALCAM	2.04	1.33	1.23	0.60	0.65
DPH3	1.43	0.90	0.86	0.60	0.63
TMED5	1.43	0.99	0.86	0.60	0.69
C17orf89	0.95	0.78	0.57	0.60	0.82
MRPL14	1.28	0.97	0.77	0.60	0.75
HSPE1	4.49	2.42	2.69	0.60	0.54
ALDOA	7.54	6.72	4.51	0.60	0.89
PPP1R15B	0.94	0.60	0.56	0.60	0.63
DNAJC3	1.06	0.86	0.64	0.60	0.81
ARL6IP1	2.46	1.44	1.47	0.60	0.59
DNAJB9	0.92	0.66	0.55	0.60	0.72
PHLDA1	4.34	2.48	2.59	0.60	0.57
ENG	1.00	0.80	0.60	0.60	0.80
NUDC	0.89	0.59	0.53	0.60	0.67
RILPL2	2.02	1.47	1.20	0.59	0.73
AGPAT2	1.24	1.21	0.73	0.59	0.98
RPS21	8.76	5.17	5.18	0.59	0.59
ADGRE5	0.99	0.70	0.58	0.59	0.71
KRT10	1.55	1.18	0.91	0.59	0.77
IER3	4.12	1.43	2.42	0.59	0.35
NAMPT	5.90	3.11	3.46	0.59	0.53
UPP1	4.13	2.75	2.42	0.59	0.67
MAP2K1	1.22	0.73	0.71	0.58	0.60
RNF149	1.69	1.19	0.99	0.58	0.71
DNAJB11	1.08	0.71	0.63	0.58	0.66
ADAM17	1.20	0.73	0.70	0.58	0.61
CCL2	7.05	4.92	4.09	0.58	0.70
LYAR	1.05	0.73	0.61	0.58	0.70
JMJD1C	1.31	0.94	0.76	0.58	0.72

TAF9	1.10	0.75	0.64	0.58	0.68
C19orf70	2.11	1.65	1.22	0.58	0.78
FPR1	1.03	0.75	0.59	0.58	0.73
RBM3	3.89	2.62	2.24	0.58	0.67
NR4A1	1.10	0.57	0.63	0.58	0.51
MT1G	2.30	0.68	1.32	0.57	0.30
RPS26	9.80	5.55	5.63	0.57	0.57
DDX18	0.98	0.68	0.56	0.57	0.70
PRDX5	2.46	1.78	1.39	0.57	0.72
PPP1CC	1.12	0.85	0.63	0.57	0.76
C1orf162	5.41	4.92	3.05	0.56	0.91
SKIL	0.97	0.63	0.54	0.56	0.66
DOK2	1.04	0.81	0.58	0.56	0.79
VASP	2.05	1.55	1.14	0.56	0.76
C5AR1	3.25	2.16	1.80	0.55	0.66
CD52	11.20	8.92	6.16	0.55	0.80
TREM1	2.17	1.42	1.19	0.55	0.66
AREG	16.54	14.51	9.00	0.54	0.88
MORF4L2	1.03	0.51	0.56	0.54	0.50
CDC37	1.51	1.15	0.82	0.54	0.76
LRPAP1	2.70	2.22	1.46	0.54	0.82
PTPRE	1.21	0.63	0.64	0.53	0.53
MAP2K3	0.98	0.50	0.52	0.53	0.51
EML4	1.06	0.82	0.56	0.53	0.77
SLC3A2	1.48	0.82	0.78	0.53	0.55
MMP24-AS1	1.05	0.89	0.56	0.53	0.84
LSM7	1.62	1.09	0.85	0.53	0.67
CXCL5	0.95	0.30	0.50	0.52	0.32
IDH1	1.28	0.86	0.67	0.52	0.67
GRINA	2.15	1.73	1.13	0.52	0.81
TUBB4B	1.59	1.02	0.83	0.52	0.64
HSD17B10	0.99	0.67	0.52	0.52	0.68
LRRC59	0.98	0.71	0.51	0.52	0.73
NUS1	0.96	0.69	0.50	0.52	0.72
NAA50	1.27	0.73	0.66	0.52	0.58
APIP	0.99	0.72	0.52	0.52	0.72
LY6E	3.29	2.64	1.68	0.51	0.80
TCP1	1.16	0.68	0.59	0.51	0.58
XBP1	2.05	1.19	1.03	0.50	0.58
SERTAD1	1.16	0.75	0.58	0.50	0.65
NDUFA6	1.85	1.07	0.92	0.50	0.58
SDF2L1	2.41	1.56	1.19	0.49	0.65

SELK	4.27	2.41	2.11	0.49	0.56
CTNNB1	2.92	2.34	1.43	0.49	0.80
CLEC7A	1.69	1.07	0.83	0.49	0.63
CORO1A	1.08	0.75	0.53	0.49	0.70
VEGFA	1.12	0.41	0.55	0.49	0.37
CYCS	4.54	2.85	2.21	0.49	0.63
DUSP4	1.28	0.51	0.62	0.49	0.40
ETS2	2.64	1.25	1.29	0.49	0.47
CD55	1.93	1.03	0.94	0.49	0.54
SFPQ	1.57	0.92	0.76	0.48	0.59
STXBP2	2.00	1.46	0.96	0.48	0.73
CXCL8	13.72	3.51	6.60	0.48	0.26
MYDGF	3.58	2.86	1.72	0.48	0.80
ECH1	1.35	0.99	0.64	0.47	0.73
MPHOSPH6	1.39	0.79	0.65	0.47	0.57
SAMSN1	3.98	2.04	1.84	0.46	0.51
ID3	1.45	1.25	0.67	0.46	0.86
MIF	2.73	1.05	1.26	0.46	0.39
CXCL1	1.34	0.18	0.62	0.46	0.13
CACYBP	1.75	0.86	0.80	0.46	0.49
SYAP1	1.40	0.79	0.62	0.45	0.57
MAP3K8	2.89	1.75	1.27	0.44	0.61
EIF5A	3.35	1.93	1.47	0.44	0.58
AC090498.1	2.04	0.99	0.90	0.44	0.49
GCA	1.52	0.99	0.67	0.44	0.65
INSIG1	2.46	0.77	1.07	0.43	0.31
STK17B	1.16	0.66	0.50	0.43	0.57
CXCL3	18.00	6.43	7.76	0.43	0.36
PHACTR1	1.80	1.44	0.77	0.43	0.80
ACADVL	1.64	1.15	0.68	0.42	0.70
MRPL23	1.38	0.71	0.57	0.41	0.51
EREG	4.03	1.19	1.64	0.41	0.29
MXD1	1.72	0.86	0.70	0.41	0.50
ANPEP	1.61	0.64	0.65	0.40	0.40
NBEAL1	4.12	1.44	1.65	0.40	0.35
MT2A	37.00	10.90	14.63	0.40	0.29
MANF	2.12	1.25	0.83	0.39	0.59
CH25H	1.30	0.79	0.51	0.39	0.60
CDKN1A	2.44	1.31	0.94	0.39	0.54
OLR1	4.47	3.14	1.70	0.38	0.70
MT1X	6.91	1.79	2.63	0.38	0.26
NOP10	10.73	5.36	4.03	0.38	0.50

MRC1	7.32	3.77	2.64	0.36	0.52
PPIF	1.80	0.80	0.64	0.35	0.45
CCL20	12.94	2.05	4.43	0.34	0.16
IL7R	1.75	1.20	0.56	0.32	0.69
IL1B	5.72	0.78	1.73	0.30	0.14
THBD	5.37	1.97	1.60	0.30	0.37
ALOX5AP	16.11	6.86	4.80	0.30	0.43
VCAN	2.21	1.04	0.63	0.28	0.47
B3GNT5	1.96	0.84	0.55	0.28	0.43
RETN	4.32	2.21	0.95	0.22	0.51
MCEMP1	4.64	2.69	0.88	0.19	0.58
MT1E	3.60	0.41	0.64	0.18	0.11
THBS1	5.79	1.62	0.91	0.16	0.28

Table S9. Connectivity map first order neighbors

ABCA3	-->	CACNA2D2
ABCA3	-->	CADM1
ABCA3	-->	CKB
ABCA3	-->	CRNDE
ABCA3	-->	DMBT1
ABCA3	-->	FAM129B
ABCA3	-->	FASN
ABCA3	-->	LPCAT1
ABCA3	-->	LRRK2
ABCA3	-->	PEBP4
ABCA3	-->	SCGB3A2
ABCA3	-->	SERPINA1
ABCA3	-->	SFTPA1
ABCA3	-->	SLC22A31
ABCA3	-->	TMEM45A
ABCA7	-->	GSTA1
ABCA7	-->	MMP1
ABCA7	-->	NTM
ABCA7	-->	TNNC1
ACP5	-->	APOC1
ACP5	-->	APOE
ACP5	-->	BRI3
ACP5	-->	CD9
ACP5	-->	CTSD
ACP5	-->	CTSL
ACP5	-->	CTSS
ACP5	-->	CYP27A1
ACP5	-->	FBP1
ACP5	-->	GCHFR
ACP5	-->	GPNMB
ACP5	-->	GRN
ACP5	-->	GSTO1
ACP5	-->	H2AFY
ACP5	-->	HEXB
ACP5	-->	LGALS3
ACP5	-->	LYZ
ACP5	-->	MARCO
ACP5	-->	SDC2
ACP5	-->	TGFBI
ACP5	-->	TPM2
ACTB	-->	CALM2

ACTB	-->	CD47
ACTB	-->	MYL9
ACTB	-->	POLR2L
ACTB	-->	PPT1
ACTB	-->	SNHG8
ACTB	-->	TAGLN
ACTB	-->	TYMP
ADGRF5	-->	BCAM
ADGRF5	-->	CAPN8
ADGRF5	-->	CDH1
ADGRF5	-->	KRT15
ADGRF5	-->	LDLR
ADGRF5	-->	LMO3
ADGRF5	-->	LPCAT1
ADGRF5	-->	MLPH
ADGRF5	-->	MYO1B
ADGRF5	-->	PEG10
ADGRF5	-->	SCNN1A
ADGRF5	-->	SMIM22
ADGRF5	-->	TMC5
ADGRF5	-->	WIF1
ADH1B	-->	CFD
ADH1B	-->	CKB
ADH1B	-->	EFEMP1
ADH1B	-->	FBLN2
ADH1B	-->	FGF7
ADH1B	-->	FHL1
ADH1B	-->	FMO2
ADH1B	-->	GPC3
ADH1B	-->	INMT
ADH1B	-->	PLAC9
ADH1B	-->	PMP22
ADH1B	-->	SEPP1
ADH1B	-->	SFRP2
ADH1B	-->	TCF21
ADH1B	-->	TSPAN8
AEBP1	-->	CALD1
AGER	-->	ABCA3
AGER	-->	ARHGEF26
AGER	-->	C4BPA
AGER	-->	CLIC3
AGER	-->	CYP4B1

AGER	-->	FABP5
AGER	-->	LAMA3
AGER	-->	LAMP3
AGER	-->	LPCAT1
AGER	-->	PGC
AGER	-->	S100A2
AGER	-->	SCGB3A1
AGER	-->	SFTPA1
AGER	-->	SFTPC
AGER	-->	SLC22A31
AGER	-->	SUSD2
AGR2	-->	AGR3
AGR2	-->	CD63
AGR2	-->	CYP4B1
AGR2	-->	FGFBP1
AGR2	-->	HMGB3
AGR2	-->	RAB25
AGR2	-->	RARRES3
AGR2	-->	SCNN1B
AGR2	-->	SDR16C5
AGR2	-->	STARD10
AGR2	-->	SYTL1
AGR2	-->	TFF3
AGR2	-->	TSPAN1
AGR2	-->	WFDC2
AGR3	-->	ADGRF5
AGR3	-->	AK1
AGR3	-->	ARFGEF3
AGR3	-->	CAPN8
AGR3	-->	CDH1
AGR3	-->	CLDN3
AGR3	-->	CYP4B1
AGR3	-->	DSTN
AGR3	-->	ERBB3
AGR3	-->	FABP5
AGR3	-->	FGGY
AGR3	-->	PRSS8
AGR3	-->	RAB11FIP1
AGR3	-->	RAB25
AGR3	-->	RNF145
AGR3	-->	SCGB3A2
AGR3	-->	SCNN1A

AGR3	-->	SDC4
AGR3	-->	SMIM22
AIF1	-->	ACP5
AIF1	-->	ACTB
AIF1	-->	ASAH1
AIF1	---	C1QA
AIF1	---	C1QB
AIF1	---	C1QC
AIF1	-->	CD9
AIF1	-->	CFD
AIF1	-->	FCER1G
AIF1	-->	FPR3
AIF1	-->	GPX1
AIF1	-->	LCN2
AIF1	-->	LST1
AIF1	-->	MS4A4A
AIF1	-->	MS4A6A
AIF1	-->	MS4A7
AIF1	-->	SCEL
AIF1	-->	TACC2
AIF1	-->	TGFBI
AIF1	-->	TREM2
AIF1	-->	TYROBP
AIF1	-->	VSIG4
AK1	-->	FGGY
AK1	-->	MYO1B
AK1	-->	POLR2L
AK1	-->	STARD10
ALCAM	-->	RAB11FIP1
ALCAM	-->	SPINT1
ALDH3A1	-->	ANOS1
ALDH3A1	-->	DHRS3
ALDH3A1	-->	GLUL
ALDH3A1	-->	SCPEP1
ALPL	-->	CKB
ALPL	-->	CLDN1
ALPL	-->	DUSP6
ALPL	-->	FASN
ALPL	-->	MFSD2A
ALPL	-->	PARM1
ALPL	-->	PEG10
ALPL	-->	RAB25

ALPL	-->	SCPEP1
ALPL	-->	SMIM22
ANOS1	-->	ANKRD29
ANOS1	-->	FAM213A
ANOS1	-->	PCYOX1
ANXA3	-->	AGER
ANXA3	-->	AGR3
ANXA3	-->	ANOS1
ANXA3	-->	C12orf49
ANXA3	-->	C15orf48
ANXA3	-->	CRACR2B
ANXA3	-->	CTSB
ANXA3	-->	CTSE
ANXA3	-->	CXCL14
ANXA3	-->	DUSP6
ANXA3	-->	FBXO32
ANXA3	-->	HEXB
ANXA3	-->	LCN2
ANXA3	-->	LRRK2
ANXA3	-->	MLPH
ANXA3	-->	MUC5B
ANXA3	-->	PCYOX1
ANXA3	-->	PDLIM2
ANXA3	-->	PLEKHJ1
ANXA3	-->	PLLP
ANXA3	-->	SDC2
ANXA3	-->	SGK1
ANXA3	-->	TSPAN8
AP2S1	-->	ATOX1
AP2S1	-->	ATP6V1F
AP2S1	-->	CSTB
AP2S1	-->	CTSB
AP2S1	-->	CTSD
AP2S1	-->	CYBA
AP2S1	-->	GCHFR
AP2S1	-->	GPX1
AP2S1	-->	LGALS1
AP2S1	-->	LILRB4
AP2S1	-->	TYMP
APLP2	-->	CTNNA1
APLP2	-->	MT.ND1
APOC1	-->	APOE

APOC1	-->	ASAH1
APOC1	-->	ATOX1
APOC1	-->	CCL18
APOC1	-->	CD151
APOC1	-->	CSTB
APOC1	-->	EMP3
APOC1	-->	FABP5
APOC1	-->	GPNMB
APOC1	-->	HLA.DMB
APOC1	-->	LIPA
APOC1	-->	LY96
APOC1	-->	MRC1
APOC1	-->	RPS4Y1
APOC1	-->	SCGB3A1
APOC1	-->	TFRC
APOC1	-->	TREM2
APOD	-->	MT.ND1
APOE	-->	ASPH
APOE	-->	CAPN2
APOE	-->	CD55
APOE	-->	CREG1
APOE	-->	PLD3
APOE	-->	RARRES1
ARFGEF3	-->	ALCAM
ARFGEF3	-->	CAPN8
ARFGEF3	-->	CRNDE
ARFGEF3	-->	CXADR
ARFGEF3	-->	LDLR
ARFGEF3	-->	MAGI3
ARFGEF3	-->	MLLT4
ARFGEF3	-->	MLPH
ARFGEF3	-->	STARD10
ARFGEF3	-->	TACC2
ARHGEF26	-->	CTGF
ARHGEF26	-->	PRKCZ
ARL4D	-->	ALDH3A1
ARL4D	-->	MYC
ARL4D	-->	ODC1
ASAH1	-->	APLP2
ASAH1	-->	CD63
ASPH	-->	APLP2
ASPN	-->	ADH1B

ASPN	-->	AEBP1
ASPN	-->	APOE
ASPN	-->	BGN
ASPN	-->	C3
ASPN	-->	C7
ASPN	-->	CFD
ASPN	-->	CHI3L2
ASPN	-->	COL1A2
ASPN	-->	COL4A3
ASPN	-->	COL5A1
ASPN	-->	COL5A2
ASPN	-->	COL6A2
ASPN	-->	COL6A3
ASPN	-->	COL8A1
ASPN	-->	CTHRC1
ASPN	-->	CXCL12
ASPN	-->	DKK3
ASPN	-->	DPT
ASPN	-->	EMILIN1
ASPN	-->	HTRA3
ASPN	-->	IGFBP5
ASPN	-->	LTBP1
ASPN	-->	LTBP2
ASPN	-->	MT.ND1
ASPN	-->	MYC
ASPN	-->	NCKAP5
ASPN	-->	PLAC9
ASPN	-->	POSTN
ASPN	-->	PTGDS
ASPN	-->	RARRES1
ASPN	-->	SFRP4
ASPN	-->	TSC22D1
ATF3	-->	HES1
ATF3	-->	IER3
ATF3	-->	NEAT1
ATP11A	-->	CPM
ATP1A1	-->	SPTSSA
ATP6V1F	-->	ATP6V0B
BCAM	-->	ALDH3A1
BCAM	-->	DHRS3
BCAM	-->	FBXO32
BCAM	-->	FLRT3

BCAM --> HOOK2
BCAM --> IGFBP2
BCAM --> LMO3
BCAM --> MAGI3
BCAM --> PRKCZ
BCAM --> SCNN1B
BCAM --> SYTL1
BCAM --> WIF1
BGN --> AEBP1
BGN --> C1S
BGN --> COL1A2
BGN --> COL3A1
BGN --> COL6A2
BGN --> COL6A3
BGN --> CTHRC1
BGN --> DPT
BGN --> EFEMP1
BGN --> ELN
BGN --> FBLN2
BGN --> FBN1
BGN --> IGF1
BGN --> INMT
BGN --> LTBP1
BGN --> LTBP2
BGN --> LUM
BGN --> MGP
BGN --> MMP2
BGN --> MXRA8
BGN --> NBL1
BGN --> OLFML3
BGN --> PCOLCE
BGN --> PDLIM3
BGN --> RTKN2
BGN --> SPARC
BGN --> TAGLN
BGN --> THY1
BGN --> TNNC1
BGN --> TPM2
BLVRB --> SEPP1
BPIFB1 --> CLDN3
BPIFB1 --> SCGB1A1
BRI3 --> ATP6V0B

BRI3	-->	ATP6V1F
BRI3	-->	CTSZ
BRI3	-->	CYBA
BRI3	-->	DAB2
BRI3	-->	HPCAL1
BRI3	-->	MT.ND1
BRI3	-->	MYL12B
BRI3	-->	RAB11FIP1
C10orf10	-->	CEBPD
C12orf49	-->	MGLL
C12orf49	-->	STARD10
C15orf48	-->	ATOX1
C15orf48	-->	DUSP6
C15orf48	-->	TYMP
C1QA	-->	ATP1A1
C1QA	---	C1QB
C1QA	---	C1QC
C1QA	-->	CREG1
C1QA	-->	HLA.DMA
C1QA	-->	HLA.DPA1
C1QA	-->	LGALS3
C1QA	-->	LST1
C1QA	-->	MRC1
C1QA	-->	MS4A6A
C1QA	-->	MS4A7
C1QA	-->	SEPP1
C1QA	-->	SPP1
C1QA	-->	TNNC1
C1QA	-->	TYROBP
C1QA	-->	VSIG4
C1QB	-->	APOC1
C1QB	-->	APOE
C1QB	---	C1QC
C1QB	-->	CCL18
C1QB	-->	FCER1G
C1QB	-->	LY96
C1QB	-->	MS4A4A
C1QB	-->	MSR1
C1QB	-->	TIMP1
C1QC	-->	C15orf48
C1QC	-->	CA2
C1QC	-->	CD163

C1QC --> COL6A3
C1QC --> CSTB
C1QC --> CTSK
C1QC --> CYP1B1
C1QC --> DAPK2
C1QC --> FAM105A
C1QC --> FOLR2
C1QC --> MARCO
C1QC --> MS4A6A
C1QC --> MSR1
C1QC --> PLD3
C1QC --> PMP22
C1QC --> SH3BGRL3
C1QC --> SPARC
C1QC --> TGFBI
C1QC --> TREM2
C1QC --> VSIG4
C1R --> AEBP1
C1R --> APOD
C1R --> C3
C1R --> CFH
C1R --> CHI3L2
C1R --> DCN
C1R --> EFEMP1
C1R --> FBLN1
C1R --> GPX1
C1R --> NNMT
C1R --> PLS3
C1R --> PSAP
C1R --> SELM
C1R --> SEPP1
C1R --> SERPING1
C1S --> ADH1B
C1S --> C1R
C1S --> C7
C1S --> CXCL14
C1S --> DCN
C1S --> FBLN1
C1S --> LUM
C1S --> MXRA8
C1S --> OLFML3
C1S --> RARRES2

C1S	-->	SERPING1
C1S	-->	SFRP2
C3	-->	CAPG
C3	-->	CYR61
C3	-->	NNMT
C4BPA	-->	ABCA3
C4BPA	-->	ALPL
C4BPA	-->	C3
C4BPA	-->	CACNA2D2
C4BPA	-->	DHRS3
C4BPA	-->	FGGY
C4BPA	-->	GKN2
C4BPA	-->	LAMP3
C4BPA	-->	LRRK2
C4BPA	-->	PARM1
C4BPA	-->	PEBP4
C4BPA	-->	PGC
C4BPA	-->	SDR16C5
C4BPA	-->	SERPINA1
C4BPA	-->	SFTPD
C4BPA	-->	SLC6A14
C7	-->	A2M
C7	-->	ADH1B
C7	-->	C10orf10
C7	-->	CXCL12
C7	-->	CXCL14
C7	-->	EMILIN1
C7	-->	GPC3
C7	-->	INMT
C7	-->	LTBP2
C7	-->	SCGB3A1
C7	-->	SDC2
C7	-->	SEPP1
C7	-->	SH3BGRL3
C7	-->	TGFBI
C7	-->	TSPAN8
CA2	-->	FAM213A
CA2	-->	HPCAL1
CA2	-->	MID1IP1
CA2	-->	TSPAN1
CACNA2D2	-->	ARFGEF3
CACNA2D2	-->	DMBT1

CACNA2D2 --> FASN
CACNA2D2 --> LRRK2
CACNA2D2 --> RAB11FIP1
CACNA2D2 --> TSC22D1
CACNA2D2 --> WIF1
CADM1 --> CPM
CALD1 --> ALCAM
CALD1 --> C10orf10
CALD1 --> CAV1
CALD1 --> COL14A1
CALD1 --> CSTB
CALD1 --> DKK3
CALD1 --> FABP5
CALD1 --> FBLN2
CALD1 --> GPC3
CALD1 --> HTRA3
CALD1 --> IGFBP4
CALD1 --> IGFBP5
CALD1 --> LGALS1
CALD1 --> LTBP2
CALD1 --> MEG3
CALD1 --> MOXD1
CALD1 --> NNMT
CALD1 --> PLAC9
CALD1 --> TGFBI
CALD1 --> TIMP3
CALD1 --> TPM2
CALM3 --> ATOX1
CAPG --> CD9
CAPG --> CYP27A1
CAPG --> FASN
CAPG --> GRN
CAPG --> IFI6
CAPG --> TMEM45A
CAPN2 --> CTNNA1
CAPN8 --> HOOK2
CAPN8 --> MAGI3
CAPN8 --> SCNN1A
CAV1 --> APLP2
CAV1 --> CD55
CAV1 --> DSTN
CAV1 --> MYL12B

CAV1	-->	MYL9
CAV1	-->	PDLIM2
CAV1	-->	TRAM1
CAV2	-->	AK1
CAV2	-->	ANXA3
CAV2	-->	CAV1
CAV2	-->	CD68
CAV2	-->	CLIC3
CAV2	-->	CYR61
CAV2	-->	DSTN
CAV2	-->	LGALS3
CAV2	-->	MBIP
CAV2	-->	MPZL2
CAV2	-->	PLLP
CAV2	-->	RAB25
CAV2	-->	SDC4
CAV2	-->	SPARC
CCDC80	-->	CFD
CCDC80	-->	CFH
CCDC80	-->	CPM
CCDC80	-->	FGFBP1
CCDC80	-->	GSN
CCDC80	-->	LAMP3
CCDC80	-->	PLA2G7
CCDC80	-->	SEMA3B
CCDC80	-->	TIMP1
CCDC80	-->	TSPAN1
CCL18	-->	APOE
CCL18	-->	CFD
CCL18	-->	CTSH
CCL18	-->	CTSK
CCL18	-->	CTSZ
CCL18	-->	DAB2
CCL18	-->	GSN
CCL18	-->	LGMN
CCL18	-->	NEAT1
CCL18	-->	SCD
CCL18	-->	SEPP1
CCL20	-->	C15orf48
CCL20	-->	CA2
CCL20	-->	CXCL1
CCL20	-->	CXCL2

CCL20	-->	IER3
CCL20	-->	ODC1
CCL20	-->	SDC4
CCL20	-->	SERPINA1
CCL20	-->	TREM2
CD14	-->	BLVRB
CD14	-->	CAPG
CD14	-->	CFD
CD14	-->	COL4A4
CD14	-->	CSTB
CD14	-->	CTSD
CD14	-->	CTSS
CD14	-->	GCHFR
CD14	-->	GGT1
CD14	-->	HLA.DMB
CD14	-->	HLA.DRB1
CD14	-->	LGALS1
CD14	-->	LILRB4
CD14	-->	MAP2
CD14	-->	MERTK
CD14	-->	MYL12B
CD14	-->	SH3BGRL3
CD14	-->	SPARC
CD151	-->	CLTB
CD163	-->	AP2S1
CD163	-->	CTSB
CD163	-->	CTSD
CD163	-->	CTSL
CD163	-->	FOLR2
CD163	-->	FPR3
CD163	-->	GCHFR
CD163	-->	GLUL
CD163	-->	MARCO
CD163	-->	MERTK
CD163	-->	MFSD1
CD163	-->	MMP2
CD163	-->	MRC1
CD163	-->	MSR1
CD163	-->	PMP22
CD163	-->	RPS4Y1
CD163	-->	SPP1
CD163	-->	SYTL1

CD163	-->	TMEM243
CD163	-->	VSIG4
CD24	-->	CADM1
CD24	-->	CAPN2
CD24	-->	CKB
CD24	-->	CLDN3
CD24	-->	ERBB3
CD24	-->	KRT17
CD24	-->	LAMB3
CD24	-->	LMO3
CD24	-->	MDK
CD24	-->	OCIAD2
CD24	-->	S100A2
CD24	-->	SCNN1A
CD24	-->	VSIG2
CD55	-->	A2M
CD55	-->	NCOA7
CD63	-->	ATP6V0B
CD63	-->	CD9
CD63	-->	COX6C
CD63	-->	CYBA
CD63	-->	GLUL
CD63	-->	HEXB
CD63	-->	IFI6
CD63	-->	MYL12B
CD68	-->	ACP5
CD68	-->	ATP6V1F
CD68	-->	CREG1
CD68	-->	CSTB
CD68	-->	CTSB
CD68	-->	CTSD
CD68	-->	CTSK
CD68	-->	CYBB
CD68	-->	CYP27A1
CD68	-->	EMP3
CD68	-->	FBP1
CD68	-->	GRN
CD68	-->	LAPTM5
CD68	-->	LGALS3
CD68	-->	LILRB4
CD68	-->	LINC01272
CD68	-->	MARCO

CD68	-->	OCIAD2
CD68	-->	PLA2G7
CD68	-->	PMP22
CD68	-->	RNF130
CD68	-->	VIM
CD9	-->	ALCAM
CD9	-->	APLP2
CD9	-->	CALM2
CD9	-->	CAPN2
CD9	-->	CD151
CD9	-->	CD55
CD9	-->	SPINT1
CDH1	-->	CAPN8
CDH1	-->	CD24
CDH1	-->	CLDN1
CDH1	-->	CTNNA1
CDH1	-->	CXADR
CDH1	-->	ERBB3
CDH1	-->	FAM129B
CDH1	-->	LAMB3
CDH1	-->	MLLT4
CDH1	-->	PLEKHJ1
CDH1	-->	PRKCZ
CDH1	-->	RAB11FIP1
CDH1	-->	S100A2
CDH1	-->	SCNN1A
CDH1	-->	TACC2
CDH1	-->	TMC5
CDH11	-->	COL14A1
CDH11	-->	COL8A1
CDH11	-->	DKK3
CDH11	-->	GPC3
CDH11	-->	GPNMB
CDH11	-->	GSN
CDH11	-->	MOXD1
CDH11	-->	PLS3
CDH11	-->	PMP22
CEBPD	-->	FGF7
CEBPD	-->	GLUL
CEBPD	-->	NCOA7
CES1	-->	A2M
CES1	-->	ALCAM

CES1	-->	CFD
CES1	-->	CYP27A1
CES1	-->	CYR61
CES1	-->	RNF145
CES1	-->	SERPING1
CFD	-->	ALCAM
CFD	-->	CALM2
CFD	-->	DAB2
CFD	-->	FAM129B
CFD	-->	FBXO32
CFD	-->	IGFBP2
CFD	-->	RARRES1
CFD	-->	SERPING1
CFH	-->	ACP5
CFH	-->	BRI3
CFH	-->	C3
CFH	-->	CSTB
CFH	-->	CYR61
CFH	-->	EGFR
CFH	-->	LAPTM5
CFH	-->	MAGI3
CFH	-->	MEG3
CFH	-->	PCYOX1
CFH	-->	RARRES1
CFH	-->	TIMP1
CFH	-->	TSPAN8
CFH	-->	VCAN
CHI3L2	-->	A2M
CHI3L2	-->	CA2
CHI3L2	-->	CCL20
CHI3L2	-->	CYBA
CHI3L2	-->	FGF7
CHI3L2	-->	HHIP
CHI3L2	-->	HPCAL1
CHI3L2	-->	KRT15
CHI3L2	-->	MBIP
CHI3L2	-->	MLPH
CHI3L2	-->	MSMO1
CHI3L2	-->	MYC
CHI3L2	-->	NNMT
CHI3L2	-->	ODC1
CHI3L2	-->	PEBP4

CHI3L2	-->	PGC
CHI3L2	-->	PLA2G1B
CHI3L2	-->	RPS4Y1
CHI3L2	-->	SERPING1
CHI3L2	-->	SFTPD
CHI3L2	-->	SGK1
CHI3L2	-->	SH3BGRL3
CHI3L2	-->	SLC6A14
CHI3L2	-->	SPARC
CHI3L2	-->	SPTSSA
CHI3L2	-->	SYTL1
CHI3L2	-->	TIMP1
CHI3L2	-->	TMEM243
CHI3L2	-->	TSPAN1
CHI3L2	-->	ZDHHC3
CKB	-->	ATP1A1
CKB	-->	TACC2
CLDN1	-->	CKB
CLDN1	-->	CYR61
CLDN1	-->	LDLR
CLDN1	-->	PRKCZ
CLDN1	-->	SCNN1A
CLDN3	-->	ARFGEF3
CLDN3	-->	CAPN8
CLDN3	-->	CRACR2B
CLDN3	-->	ERBB3
CLDN3	-->	FAM129B
CLDN3	-->	FOSB
CLDN3	-->	HES1
CLDN3	-->	IER3
CLDN3	-->	KIAA1324
CLDN3	-->	MAGI3
CLDN3	-->	MLPH
CLDN3	-->	PARM1
CLDN3	-->	RAB11FIP1
CLDN3	-->	SCNN1A
CLDN3	-->	SCNN1B
CLDN3	-->	TACC2
CLDN3	-->	TMC5
CLIC3	-->	AGR3
CLIC3	-->	ASAH1
CLIC3	-->	CAV1

CLIC3	-->	CD9
CLIC3	-->	CKB
CLIC3	-->	MYL12B
CLIC3	-->	S100A11
CLIC3	-->	SEPP1
CLIC3	-->	TIMP3
CLIC5	-->	AGER
CLIC5	-->	ARHGEF26
CLIC5	-->	CLDN3
CLIC5	-->	COL4A3
CLIC5	-->	CP
CLIC5	-->	CTSE
CLIC5	-->	FSTL1
CLIC5	-->	GGTLC1
CLIC5	-->	MAGI3
CLIC5	-->	MLLT4
CLIC5	-->	NCKAP5
CLIC5	-->	PEG10
CLIC5	-->	PRKCZ
CLIC5	-->	SEMA3B
CLIC5	-->	SLC22A31
CLIC5	-->	SUSD2
CLIC5	-->	TSPAN1
CLIC5	-->	WIF1
COL14A1	-->	CCDC80
COL14A1	-->	EFEMP1
COL14A1	-->	ELN
COL14A1	-->	MOXD1
COL14A1	-->	TGFBI
COL1A1	-->	CALD1
COL1A1	-->	FHL2
COL1A1	-->	FSTL1
COL1A1	-->	GEM
COL1A1	-->	GLUL
COL1A1	-->	MDK
COL1A1	-->	MEG3
COL1A1	-->	RPS4Y1
COL1A1	-->	SCGB1A1
COL1A1	-->	SERPINH1
COL1A1	-->	SPARC
COL1A1	-->	TPM2
COL1A2	-->	ANXA3

COL1A2	-->	C1S
COL1A2	-->	COL1A1
COL1A2	-->	COL3A1
COL1A2	-->	COL5A1
COL1A2	-->	COL5A2
COL1A2	-->	COL6A1
COL1A2	-->	COL6A2
COL1A2	-->	COL6A3
COL1A2	-->	CTHRC1
COL1A2	-->	IGF1
COL1A2	-->	LGALS1
COL1A2	-->	LUM
COL1A2	-->	NBL1
COL1A2	-->	SPARC
COL1A2	-->	THY1
COL3A1	-->	C1R
COL3A1	-->	COL1A1
COL3A1	-->	COL5A1
COL3A1	-->	COL5A2
COL3A1	-->	CTHRC1
COL3A1	-->	EMILIN1
COL3A1	-->	MMP2
COL3A1	-->	MOXD1
COL3A1	-->	POSTN
COL3A1	-->	SPARC
COL3A1	-->	THY1
COL4A3	-->	AGER
COL4A3	-->	ARHGEF26
COL4A3	-->	CACNA2D2
COL4A3	-->	DAPK2
COL4A3	-->	DUSP23
COL4A3	-->	GGTLC1
COL4A3	-->	LAMA3
COL4A3	-->	LPCAT1
COL4A3	-->	NCKAP5
COL4A3	-->	PSAP
COL4A3	-->	SERPING1
COL4A3	-->	SUSD2
COL4A4	-->	ABCA7
COL4A4	-->	ARHGEF26
COL4A4	-->	CLIC5
COL4A4	-->	COL1A1

COL4A4	-->	COL4A3
COL4A4	-->	CST6
COL4A4	-->	CTSE
COL4A4	-->	FMO2
COL4A4	-->	GSTA1
COL4A4	-->	HHIP
COL4A4	-->	LAMA3
COL4A4	-->	MYRF
COL4A4	-->	NTM
COL4A4	-->	PLA2G1B
COL4A4	-->	RAB17
COL4A4	-->	SCEL
COL4A4	-->	SEMA3B
COL4A4	-->	SYT8
COL4A4	-->	TNNC1
COL5A1	-->	AGR2
COL5A1	-->	AK1
COL5A1	-->	APOD
COL5A1	-->	CCDC80
COL5A1	-->	CCL18
COL5A1	-->	CES1
COL5A1	-->	CLIC3
COL5A1	-->	COL1A1
COL5A1	-->	COL8A1
COL5A1	-->	CSTB
COL5A1	-->	CTSH
COL5A1	-->	CYR61
COL5A1	-->	DAPK2
COL5A1	-->	EMILIN1
COL5A1	-->	FSTL1
COL5A1	-->	IGFBP5
COL5A1	-->	KRT15
COL5A1	-->	MDK
COL5A1	-->	MEG3
COL5A1	-->	MPZL2
COL5A1	-->	PGC
COL5A1	-->	PLEKHJ1
COL5A1	-->	PLLP
COL5A1	-->	RTKN2
COL5A1	-->	SCGB3A1
COL5A1	-->	SDC4
COL5A1	-->	SFTPD

COL5A1 --> SPARC
COL5A1 --> TAGLN
COL5A1 --> TIMP1
COL5A1 --> TMEM45A
COL5A1 --> WFDC2
COL5A2 --> COL14A1
COL5A2 --> COL1A1
COL5A2 --> COL5A1
COL5A2 --> COL8A1
COL5A2 --> CTHRC1
COL5A2 --> CYP1B1
COL5A2 --> DAPK2
COL5A2 --> EMILIN1
COL5A2 --> FBN1
COL5A2 --> FSTL1
COL5A2 --> ISLR
COL5A2 --> MEG3
COL5A2 --> NTM
COL5A2 --> POSTN
COL5A2 --> RTKN2
COL5A2 --> SYTL1
COL5A2 --> TMEM45A
COL6A1 --> COL1A1
COL6A1 --> COL3A1
COL6A1 --> COL5A1
COL6A1 --> COL5A2
COL6A1 --> CTSK
COL6A1 --> ISLR
COL6A2 --> C1R
COL6A2 --> C1S
COL6A2 --> CLIC5
COL6A2 --> COL6A1
COL6A2 --> COL6A3
COL6A2 --> DPT
COL6A2 --> EMILIN1
COL6A2 --> FBLN1
COL6A2 --> HTRA3
COL6A2 --> MMP2
COL6A2 --> MXRA8
COL6A2 --> NBL1
COL6A2 --> OLFML3
COL6A2 --> PDLIM3

COL6A2	-->	PSAP
COL6A2	-->	RARRES2
COL6A2	-->	SCEL
COL6A2	-->	SERPING1
COL6A2	-->	THY1
COL6A3	-->	CDH11
COL6A3	-->	CFH
COL6A3	-->	COL3A1
COL6A3	-->	COL5A1
COL6A3	-->	COL5A2
COL6A3	-->	COL6A1
COL6A3	-->	CTHRC1
COL6A3	-->	EMILIN1
COL6A3	-->	FBLN1
COL6A3	-->	FBN1
COL6A3	-->	FHL1
COL6A3	-->	GEM
COL6A3	-->	IGF1
COL6A3	-->	ISLR
COL6A3	-->	LTBP1
COL6A3	-->	LTBP2
COL6A3	-->	MMP2
COL6A3	-->	MXRA8
COL6A3	-->	NTM
COL6A3	-->	PDLIM2
COL6A3	-->	PDLIM3
COL6A3	-->	POSTN
COL6A3	-->	SELM
COL6A3	-->	THY1
COL6A3	-->	TPM2
COL6A3	-->	VCAN
COL8A1	-->	CCDC80
COL8A1	-->	CES1
COL8A1	-->	CHI3L2
COL8A1	-->	COX6C
COL8A1	-->	MOXD1
COL8A1	-->	NGFRAP1
COL8A1	-->	PLD3
COL8A1	-->	PLLP
COL8A1	-->	PLS3
COL8A1	-->	TREM2
COL8A1	-->	VCAN

COMP	-->	AEBP1
COMP	-->	APOE
COMP	-->	ASPN
COMP	-->	BGN
COMP	-->	C10orf10
COMP	-->	C7
COMP	-->	CALD1
COMP	-->	CAV1
COMP	-->	CD9
COMP	-->	CDH11
COMP	-->	COL8A1
COMP	-->	DPT
COMP	-->	FBLN1
COMP	-->	LTBP2
COMP	-->	MFAP4
COMP	-->	NBL1
COMP	-->	PRELP
COMP	-->	SFRP2
COMP	-->	SFRP4
COMP	-->	TCF21
COMP	-->	THY1
COMP	-->	TSC22D1
COX6C	-->	CALM2
COX6C	-->	POLR2L
CP	-->	AGER
CP	-->	AGR2
CP	-->	AGR3
CP	-->	ALCAM
CP	-->	ARFGEF3
CP	-->	BPIFB1
CP	-->	CA2
CP	-->	CAPN8
CP	-->	CCDC80
CP	-->	CD55
CP	-->	CFH
CP	-->	CRACR2B
CP	-->	CTSB
CP	-->	CXCL1
CP	-->	FBXO32
CP	-->	FGFBP1
CP	-->	FMO2
CP	-->	HMGB3

CP	-->	KIAA1324
CP	-->	LGMN
CP	-->	PGC
CP	-->	SCD
CP	-->	SCGB1A1
CP	-->	SCGB3A1
CP	-->	SH3BGRL3
CP	-->	TFF3
CP	-->	TMC5
CP	-->	TSPAN1
CP	-->	TSPAN8
CP	-->	WFDC2
CPM	-->	ANKRD29
CPM	-->	ANOS1
CPM	-->	APLP2
CPM	-->	CAV1
CPM	-->	NEAT1
CPM	-->	TMEM45A
CRACR2B	-->	ALCAM
CRACR2B	-->	VSIG2
CRNDE	-->	EVA1A
CRNDE	-->	LDLR
CRNDE	-->	LMO3
CRNDE	-->	MT.ND1
CRNDE	-->	NCOA7
CRNDE	-->	RAB17
CRNDE	-->	RP11.532F12.5
CRNDE	-->	SCNN1A
CRNDE	-->	VSIG2
CST6	-->	CD24
CST6	-->	CLDN3
CST6	-->	RARRES1
CST6	-->	TSPAN1
CSTB	-->	APOE
CSTB	-->	ATP6V0B
CSTB	-->	ATP6V1F
CSTB	-->	BCAM
CSTB	-->	BRI3
CSTB	-->	CALM3
CSTB	-->	COX6C
CSTB	-->	FABP5
CSTB	-->	FBP1

CSTB	-->	LGALS3
CSTB	-->	LINC01272
CSTB	-->	MT.ND1
CSTB	-->	POLR2L
CSTB	-->	SERPING1
CSTB	-->	SFRP4
CTGF	-->	CYR61
CTGF	-->	FMO2
CTGF	-->	FOSB
CTGF	-->	HES1
CTGF	-->	HSPA1A
CTGF	-->	SOX9
CTHRC1	-->	ADH1B
CTHRC1	-->	CALD1
CTHRC1	-->	COL1A1
CTHRC1	-->	COL5A1
CTHRC1	-->	CYP1B1
CTHRC1	-->	EMILIN1
CTHRC1	-->	FBLN2
CTHRC1	-->	GLUL
CTHRC1	-->	IGFBP2
CTHRC1	-->	MGLL
CTHRC1	-->	MXRA8
CTHRC1	-->	MYL9
CTHRC1	-->	PDLIM2
CTHRC1	-->	POSTN
CTHRC1	-->	SERPINH1
CTHRC1	-->	SFRP2
CTHRC1	-->	TAGLN
CTHRC1	-->	TCF21
CTHRC1	-->	TPM2
CTSB	-->	BRI3
CTSB	-->	CAV1
CTSB	-->	CCL18
CTSB	-->	CSTB
CTSB	-->	CTSL
CTSB	-->	CTSS
CTSB	-->	CTSZ
CTSB	-->	DAB2
CTSB	-->	GLUL
CTSB	-->	GPNMB
CTSB	-->	LAPTM5

CTSB	-->	LGALS1
CTSB	-->	LGMN
CTSB	-->	MBIP
CTSB	-->	MFSD1
CTSB	-->	PPA1
CTSB	-->	PSAP
CTSB	-->	RNF130
CTSB	-->	SPP1
CTSB	-->	TGFBI
CTSD	-->	ACTB
CTSD	-->	AGR2
CTSD	-->	APLP2
CTSD	-->	ASAH1
CTSD	-->	CAPG
CTSD	-->	CREG1
CTSD	-->	CTSB
CTSD	-->	CTSH
CTSD	-->	CTSL
CTSD	-->	CTSS
CTSD	-->	CYBA
CTSD	-->	GCHFR
CTSD	-->	GLUL
CTSD	-->	GPNMB
CTSD	-->	H2AFY
CTSD	-->	LAPTM5
CTSD	-->	LGALS3
CTSD	-->	MRC1
CTSD	-->	PSAP
CTSD	-->	RPS4Y1
CTSD	-->	SDC2
CTSE	-->	ADGRF5
CTSE	-->	AGR3
CTSE	-->	ALPL
CTSE	-->	ARFGEF3
CTSE	-->	ATP11A
CTSE	-->	BCAM
CTSE	-->	CADM1
CTSE	-->	CD151
CTSE	-->	CD47
CTSE	-->	CDH1
CTSE	-->	CLIC3
CTSE	-->	CST6

CTSE	-->	CXCL1
CTSE	-->	CXCL14
CTSE	-->	CYP4B1
CTSE	-->	DSTN
CTSE	-->	FLRT3
CTSE	-->	GSN
CTSE	-->	HES1
CTSE	-->	HSPA1A
CTSE	-->	LMO3
CTSE	-->	MAGI3
CTSE	-->	MBIP
CTSE	-->	MT.ND1
CTSE	-->	NNMT
CTSE	-->	OCIAD2
CTSE	-->	PCYOX1
CTSE	-->	SCGB3A2
CTSE	-->	SCNN1B
CTSE	-->	SEMA3B
CTSE	-->	SFTPC
CTSE	-->	SMIM22
CTSE	-->	TRAM1
CTSE	-->	WIF1
CTSH	-->	ASAH1
CTSH	-->	BLVRB
CTSH	-->	CD63
CTSH	-->	HLA.DMA
CTSH	-->	PLD3
CTSH	-->	PPA1
CTSK	-->	ANKRD29
CTSK	-->	GPNMB
CTSK	-->	LILRB4
CTSK	-->	LY96
CTSK	-->	MT.ND1
CTSK	-->	MYL9
CTSK	-->	RAB25
CTSK	-->	RARRES1
CTSK	-->	SDC2
CTSL	-->	APOC1
CTSL	-->	CCL18
CTSL	-->	CD63
CTSL	-->	CSTB
CTSL	-->	EMP3

CTSL	-->	FABP5
CTSL	-->	GPNMB
CTSL	-->	GSTO1
CTSL	-->	HEXB
CTSL	-->	LGALS3
CTSL	-->	LGMN
CTSL	-->	MARCO
CTSL	-->	MSMO1
CTSL	-->	PLA2G7
CTSL	-->	PMP22
CTSL	-->	PSAP
CTSL	-->	SDC2
CTSL	-->	SNHG8
CTSL	-->	TYMP
CTSS	-->	APOC1
CTSS	-->	APOE
CTSS	-->	ASAH1
CTSS	-->	GPNMB
CTSS	-->	GRN
CTSS	-->	LIPA
CTSS	-->	LY96
CTSS	-->	PSAP
CTSZ	-->	CALM3
CTSZ	-->	DAB2
CTSZ	-->	LGMN
CXADR	-->	NCOA7
CXCL1	-->	NCOA7
CXCL1	-->	TMEM45A
CXCL12	-->	COL14A1
CXCL12	-->	FSTL1
CXCL12	-->	GSN
CXCL12	-->	IGFBP4
CXCL12	-->	NNMT
CXCL12	-->	OLFML3
CXCL12	-->	SFRP4
CXCL14	-->	APOD
CXCL14	-->	C3
CXCL14	-->	SFRP4
CXCL2	-->	CXCL1
CXCL2	-->	ETS2
CXCL2	-->	FOSB
CXCL2	-->	GSN

CXCL2	-->	GSTO1
CXCL2	-->	HSPA1A
CXCL2	-->	IER3
CXCL2	-->	LDLR
CXCL2	-->	MYC
CXCL2	-->	SDC4
CXCL2	-->	TFRC
CXCL2	-->	TRIB1
CYBA	-->	DSTN
CYBA	-->	GRN
CYBA	-->	NEAT1
CYBA	-->	NNMT
CYBA	-->	ODC1
CYBA	-->	SPTSSA
CYBA	-->	TSC22D1
CYBB	-->	FBP1
CYBB	-->	IGSF6
CYBB	-->	MRC1
CYP1B1	-->	ABCA3
CYP1B1	-->	ANXA3
CYP1B1	-->	CAV2
CYP1B1	-->	COL8A1
CYP1B1	-->	CTSD
CYP1B1	-->	CTSE
CYP1B1	-->	CTSS
CYP1B1	-->	CXCL14
CYP1B1	-->	FHL2
CYP1B1	-->	HHIP
CYP1B1	-->	IGFBP5
CYP1B1	-->	ITGA2
CYP1B1	-->	LRRK2
CYP1B1	-->	PLA2G1B
CYP1B1	-->	RTKN2
CYP1B1	-->	SLC6A14
CYP1B1	-->	SNHG8
CYP1B1	-->	WFDC2
CYP27A1	-->	ACTB
CYP27A1	-->	ANKRD29
CYP27A1	-->	GRN
CYP27A1	-->	RARRES3
CYP4B1	-->	CD55
CYP4B1	-->	CYR61

CYP4B1	-->	RARRES3
CYR61	-->	ACTB
CYR61	-->	ATF3
CYR61	-->	FOSB
CYR61	-->	HSPA1A
CYR61	-->	MDK
CYR61	-->	MYO1B
CYR61	-->	TRIB1
DAB2	-->	CPM
DAB2	-->	LIMS1
DAPK2	-->	ADGRF5
DAPK2	-->	AGER
DAPK2	-->	ARL4D
DAPK2	-->	BCAM
DAPK2	-->	CD24
DAPK2	-->	CHI3L2
DAPK2	-->	COL14A1
DAPK2	-->	CYP1B1
DAPK2	-->	CYP4B1
DAPK2	-->	GGTLC1
DAPK2	-->	HTRA3
DAPK2	-->	LAMB3
DAPK2	-->	LTBP2
DAPK2	-->	LTBP4
DAPK2	-->	MARCO
DAPK2	-->	PLLP
DAPK2	-->	PLS3
DAPK2	-->	RPS4Y1
DAPK2	-->	RTKN2
DAPK2	-->	SFTPC
DCN	-->	ADH1B
DCN	-->	CALD1
DCN	-->	CFD
DCN	-->	COL5A2
DCN	-->	CTHRC1
DCN	-->	IGFBP5
DCN	-->	LUM
DCN	-->	MFAP4
DCN	-->	MGP
DCN	-->	NNMT
DCN	-->	PLAC9
DCN	-->	PLLP

DCN --> PRELP
DCN --> PTGDS
DCN --> SFRP2
DCN --> SPARCL1
DCN --> TIMP3
DHRS3 --> SCPEP1
DKK3 --> APOD
DKK3 --> C3
DKK3 --> CAV1
DKK3 --> CAV2
DKK3 --> CCDC80
DKK3 --> GPC3
DKK3 --> LTBP4
DKK3 --> PLS3
DMBT1 --> ALPL
DMBT1 --> C3
DMBT1 --> CAV1
DMBT1 --> CTGF
DMBT1 --> MFSD2A
DMBT1 --> SCGB1A1
DMBT1 --> SLC22A31
DPT --> CALD1
DPT --> CTSK
DPT --> CYR61
DPT --> FBLN1
DPT --> FBLN2
DPT --> FBN1
DPT --> IGF1
DPT --> ISLR
DPT --> LTBP1
DPT --> PLAC9
DPT --> PTGDS
DPT --> TGFBI
DPT --> TSPAN8
DSTN --> CALM2
DSTN --> CAPN2
DSTN --> CD9
DSTN --> MYL12B
DSTN --> NGFRAP1
DSTN --> PDLIM2
DSTN --> POLR2L
DUSP6 --> CYR61

DUSP6	-->	MFSD2A
DUSP6	-->	TRIB1
EFEMP1	-->	ANXA3
EFEMP1	-->	ATP6V0B
EFEMP1	-->	C3
EFEMP1	-->	CAV2
EFEMP1	-->	CCDC80
EFEMP1	-->	CFH
EFEMP1	-->	EGFR
EFEMP1	-->	LILRB4
EFEMP1	-->	LTBP4
EFEMP1	-->	MEG3
EFEMP1	-->	MYC
EFEMP1	-->	PLLP
EFEMP1	-->	PLS3
EFEMP1	-->	RPS4Y1
EFEMP1	-->	SEPP1
EFEMP1	-->	TSC22D1
EGFR	-->	LTBP4
EGFR	-->	MLLT4
ELN	-->	FHL1
EMILIN1	-->	CD55
EMILIN1	-->	CDH11
EMILIN1	-->	CXCL14
EMILIN1	-->	GEM
EMILIN1	-->	IGF1
EMILIN1	-->	PLAC9
EMILIN1	-->	RAB25
EMILIN1	-->	RARRES1
EMILIN1	-->	TCF21
EMP3	-->	CFD
EMP3	-->	CSTB
EMP3	-->	CYBA
EMP3	-->	FAM213A
EMP3	-->	GSTO1
EMP3	-->	HLA.DMB
EMP3	-->	LGALS1
EMP3	-->	NGFRAP1
EMP3	-->	S100A11
EMP3	-->	SDC2
EMP3	-->	SERPINA1
EMP3	-->	TYMP

EMP3	-->	VIM
ERBB3	-->	CRACR2B
ETS2	-->	CEBPD
ETS2	-->	DUSP6
ETS2	-->	IER3
ETS2	-->	KRT15
ETS2	-->	LGALS1
ETS2	-->	MPZL2
ETS2	-->	MYC
ETS2	-->	NEAT1
ETS2	-->	TRIB1
EVA1A	-->	AK1
EVA1A	-->	FAM129B
EVA1A	-->	PARM1
FABP5	-->	CD24
FABP5	-->	CD47
FABP5	-->	GRN
FABP5	-->	RARRES3
FABP5	-->	SCGB3A2
FABP5	-->	SPP1
FAM129B	-->	CAPN2
FAM213A	-->	SPINT1
FAM213A	-->	TSC22D1
FASN	-->	SCD
FBLN1	-->	ADH1B
FBLN1	-->	APOD
FBLN1	-->	C7
FBLN1	-->	CCDC80
FBLN1	-->	COL5A1
FBLN1	-->	COL5A2
FBLN1	-->	CTHRC1
FBLN1	-->	DCN
FBLN1	-->	DKK3
FBLN1	-->	EFEMP1
FBLN1	-->	FBLN2
FBLN1	-->	FSTL1
FBLN1	-->	GLUL
FBLN1	-->	GSN
FBLN1	-->	HTRA3
FBLN1	-->	IGFBP4
FBLN1	-->	ISLR
FBLN1	-->	LTBP4

FBLN1	-->	LUM
FBLN1	-->	MFAP4
FBLN1	-->	MMP2
FBLN1	-->	MYC
FBLN1	-->	POSTN
FBLN1	-->	PRELP
FBLN1	-->	SFRP2
FBLN1	-->	SPARCL1
FBLN1	-->	TYMP
FBLN2	-->	APOD
FBLN2	-->	ARHGEF26
FBLN2	-->	C3
FBLN2	-->	CFD
FBLN2	-->	CXCL14
FBLN2	-->	EFEMP1
FBLN2	-->	FBN1
FBLN2	-->	FGF7
FBLN2	-->	FSTL1
FBLN2	-->	GPC3
FBLN2	-->	GSN
FBLN2	-->	IGF1
FBLN2	-->	IGFBP4
FBLN2	-->	LGALS1
FBLN2	-->	LTBP1
FBLN2	-->	LTBP2
FBLN2	-->	LTBP4
FBLN2	-->	MXRA8
FBLN2	-->	PLAC9
FBLN2	-->	PMP22
FBLN2	-->	SFRP2
FBLN2	-->	TSPAN8
FBN1	-->	ELN
FBN1	-->	FSTL1
FBN1	-->	LTBP1
FBN1	-->	OLFML3
FBN1	-->	PPA1
FBN1	-->	SFRP4
FBP1	-->	APOE
FBP1	-->	C15orf48
FBP1	-->	CAPG
FBP1	-->	FBXO32
FBP1	-->	GSN

FBP1	-->	HPCAL1
FBP1	-->	HSPA1A
FBP1	-->	IER3
FBP1	-->	IGSF6
FBP1	-->	LGMN
FBP1	-->	LILRB4
FBP1	-->	LINC01272
FBP1	-->	LPL
FBP1	-->	MRC1
FBP1	-->	RAB11FIP1
FBP1	-->	SDC2
FBP1	-->	SERPINA1
FBP1	-->	SGMS2
FBP1	-->	TREM2
FBXO32	-->	ANOS1
FBXO32	-->	HPCAL1
FBXO32	-->	TSC22D1
FCER1G	-->	ADGRF5
FCER1G	-->	AGER
FCER1G	-->	AP2S1
FCER1G	-->	ATP6V0B
FCER1G	-->	C15orf48
FCER1G	-->	C1R
FCER1G	-->	CAV2
FCER1G	-->	CD163
FCER1G	-->	CP
FCER1G	-->	CTSB
FCER1G	-->	CTSD
FCER1G	-->	CTSL
FCER1G	-->	CYBA
FCER1G	-->	CYBB
FCER1G	-->	DKK3
FCER1G	-->	EMP3
FCER1G	-->	FABP5
FCER1G	-->	FHL2
FCER1G	-->	FOLR2
FCER1G	-->	FSTL1
FCER1G	-->	GSTO1
FCER1G	-->	HLA.DRB5
FCER1G	-->	IFI6
FCER1G	-->	IGSF6
FCER1G	-->	LGALS1

FCER1G	-->	LST1
FCER1G	-->	LY96
FCER1G	-->	MARCO
FCER1G	-->	MS4A4A
FCER1G	-->	MS4A7
FCER1G	-->	MSR1
FCER1G	-->	PPT1
FCER1G	-->	S100A11
FCER1G	-->	SELM
FCER1G	-->	SH3BGRL3
FCER1G	-->	SPP1
FCER1G	-->	TIMP1
FCER1G	-->	TNNC1
FCER1G	-->	TYMP
FCER1G	-->	VSIG4
FGFBP1	-->	AGR3
FGFBP1	-->	C15orf48
FGFBP1	-->	CD24
FGFBP1	-->	CXCL1
FGFBP1	-->	LDLR
FGFBP1	-->	LGALS3
FGFBP1	-->	S100A11
FGG	-->	ABCA3
FGG	-->	ABCA7
FGG	-->	AEBP1
FGG	-->	ASPN
FGG	-->	BGN
FGG	-->	C10orf10
FGG	-->	C4BPA
FGG	-->	C7
FGG	-->	CA2
FGG	-->	CACNA2D2
FGG	-->	CD9
FGG	-->	CES1
FGG	-->	CHI3L2
FGG	-->	COL4A4
FGG	-->	COL8A1
FGG	-->	COMP
FGG	-->	CPM
FGG	-->	CYP1B1
FGG	-->	DMBT1
FGG	-->	FHL2

FGG	-->	GSTA1
FGG	-->	HHIP
FGG	-->	IGFBP5
FGG	-->	INMT
FGG	-->	KRT6A
FGG	-->	LAMP3
FGG	-->	LRRK2
FGG	-->	MMP1
FGG	-->	MT.ND1
FGG	-->	MUC5B
FGG	-->	MYRF
FGG	-->	NEBL
FGG	-->	PLA2G1B
FGG	-->	PTGDS
FGG	-->	RAB17
FGG	-->	RTKN2
FGG	-->	S100A2
FGG	-->	SCGB1A1
FGG	-->	SERPINB5
FGG	-->	TMEM243
FGG	-->	TNNC1
FHL1	-->	ARL4D
FHL1	-->	CES1
FHL1	-->	CFD
FHL2	-->	APOC1
FHL2	-->	ARL4D
FHL2	-->	CAV2
FHL2	-->	CFH
FHL2	-->	CLIC3
FHL2	-->	CLTB
FHL2	-->	CTGF
FHL2	-->	CYR61
FHL2	-->	EFEMP1
FHL2	-->	ITGA2
FHL2	-->	KRT15
FHL2	-->	KRT17
FHL2	-->	LTBP1
FHL2	-->	MYL12B
FHL2	-->	S100A11
FHL2	-->	SPARC
FHL2	-->	TPM2
FLRT3	-->	CADM1

FLRT3	-->	CEBPD
FLRT3	-->	CXADR
FLRT3	-->	EGFR
FLRT3	-->	FMO2
FLRT3	-->	MBIP
FMO2	-->	CRACR2B
FMO2	-->	MFSD2A
FMO2	-->	SERPING1
FMO2	-->	TSC22D1
FOLR2	-->	ANKRD29
FOLR2	-->	ASPN
FOLR2	-->	BGN
FOLR2	-->	CCL18
FOLR2	-->	CD14
FOLR2	-->	CFD
FOLR2	-->	CTSK
FOLR2	-->	FBP1
FOLR2	-->	GGT1
FOLR2	-->	HSPA1A
FOLR2	-->	KRT6A
FOLR2	-->	LINC01272
FOLR2	-->	MERTK
FOLR2	-->	MMP1
FOLR2	-->	MMP2
FOLR2	-->	PLD3
FOLR2	-->	RTKN2
FOLR2	-->	SCGB1A1
FOLR2	-->	SEPP1
FOLR2	-->	SH3BGRL3
FOLR2	-->	SNHG8
FOLR2	-->	SPARC
FOLR2	-->	SPP1
FOSB	-->	A2M
FOSB	-->	ATF3
FOSB	-->	CD9
FOSB	-->	CEBPD
FOSB	-->	GEM
FOSB	-->	HES1
FOSB	-->	HSPA1A
FOSB	-->	IER3
FOSB	-->	MT.ND1
FOSB	-->	NEAT1

FPR3	-->	ANXA3
FPR3	-->	CTSB
FPR3	-->	CTSL
FPR3	-->	CTSZ
FPR3	-->	CYBB
FPR3	-->	FOLR2
FPR3	-->	GGT1
FPR3	-->	LST1
FPR3	-->	MERTK
FPR3	-->	SLC16A10
FSTL1	-->	CCDC80
FSTL1	-->	CD151
FSTL1	-->	CFH
FSTL1	-->	CXCL14
FSTL1	-->	EFEMP1
FSTL1	-->	FABP5
FSTL1	-->	FHL1
FSTL1	-->	FHL2
FSTL1	-->	MEG3
FSTL1	-->	PDLIM2
FSTL1	-->	SEMA3B
FSTL1	-->	SERPINH1
FSTL1	-->	TAGLN
FSTL1	-->	VCAN
GCHFR	-->	APOC1
GCHFR	-->	BRI3
GCHFR	-->	CCL18
GCHFR	-->	CEBPD
GCHFR	-->	CSTB
GCHFR	-->	GLUL
GCHFR	-->	IFI6
GCHFR	-->	LINC01272
GCHFR	-->	PLD3
GCHFR	-->	SCD
GCHFR	-->	SEPP1
GGT1	-->	ABCA7
GGT1	-->	ASPN
GGT1	-->	COL4A4
GGT1	-->	COL5A1
GGT1	-->	COL6A3
GGT1	-->	CYBB
GGT1	-->	FGG

GGT1	-->	HHIP
GGT1	-->	LGALS7B
GGT1	-->	MAP2
GGT1	-->	MMP1
GGT1	-->	MT.ND1
GGT1	-->	NEBL
GGT1	-->	NTM
GGT1	-->	PCOLCE
GGT1	-->	RTKN2
GGT1	-->	SERPINB5
GGT1	-->	SLC16A10
GGT1	-->	TNNC1
GGTLC1	-->	AGER
GGTLC1	-->	ARHGEF26
GKN2	-->	AGR2
GKN2	-->	ASAH1
GKN2	-->	CADM1
GKN2	-->	CD63
GKN2	-->	CTSE
GKN2	-->	MBIP
GKN2	-->	PEBP4
GKN2	-->	PEG10
GKN2	-->	PRKCZ
GKN2	-->	SFTPA1
GKN2	-->	SFTPD
GKN2	-->	WIF1
GPC3	-->	ANOS1
GPC3	-->	ARL4D
GPC3	-->	ELN
GPC3	-->	FGF7
GPC3	-->	FHL1
GPC3	-->	FMO2
GPC3	-->	MOXD1
GPC3	-->	SEPP1
GPC3	-->	SPTSSA
GPC3	-->	TYMP
GPNMB	-->	ACTB
GPNMB	-->	AGR2
GPNMB	-->	AK1
GPNMB	-->	APOE
GPNMB	-->	ASAH1
GPNMB	-->	ATOX1

GPNMB	-->	CALM3
GPNMB	-->	CAPG
GPNMB	-->	CFD
GPNMB	-->	CPM
GPNMB	-->	CREG1
GPNMB	-->	CSTB
GPNMB	-->	CYP27A1
GPNMB	-->	CYR61
GPNMB	-->	DAB2
GPNMB	-->	ETS2
GPNMB	-->	HEXB
GPNMB	-->	HLA.DMB
GPNMB	-->	IFI6
GPNMB	-->	LGMN
GPNMB	-->	LIPA
GPNMB	-->	LY96
GPNMB	-->	MFSD1
GPNMB	-->	MPZL2
GPNMB	-->	PDLIM2
GPNMB	-->	PLA2G7
GPNMB	-->	PPA1
GPNMB	-->	PPT1
GPNMB	-->	PSAP
GPNMB	-->	RNF130
GPNMB	-->	SCPEP1
GPNMB	-->	SERPINA1
GPNMB	-->	SERPINH1
GPNMB	-->	SFTPD
GPNMB	-->	SPP1
GPNMB	-->	SPTSSA
GPX1	-->	APOC1
GPX1	-->	ATP6V1F
GPX1	-->	CAV1
GPX1	-->	CTSB
GPX1	-->	CTSD
GPX1	-->	CYBA
GPX1	-->	FBP1
GPX1	-->	H2AFY
GPX1	-->	LGALS1
GPX1	-->	MARCO
GPX1	-->	PSAP
GPX1	-->	S100A11

GPX1	-->	SCGB3A1
GPX1	-->	SCGB3A2
GRN	-->	ATP6V1F
GRN	-->	HEXB
GRN	-->	PLD3
GRN	-->	PPT1
GRN	-->	TYMP
GSN	-->	ACTB
GSN	-->	ALCAM
GSN	-->	ATP1A1
GSN	-->	CD151
GSN	-->	CTNNA1
GSN	-->	PLD3
GSN	-->	SCPEP1
GSTA1	-->	BPIFB1
GSTA1	-->	CCDC80
GSTA1	-->	CD47
GSTA1	-->	CFH
GSTA1	-->	CHI3L2
GSTA1	-->	CLDN3
GSTA1	-->	COMP
GSTA1	-->	CP
GSTA1	-->	CPM
GSTA1	-->	CRACR2B
GSTA1	-->	CTSH
GSTA1	-->	CXCL14
GSTA1	-->	IGFBP5
GSTA1	-->	KIAA1324
GSTA1	-->	LAMP3
GSTA1	-->	LCN2
GSTA1	-->	LGALS3
GSTA1	-->	LPCAT1
GSTA1	-->	MDK
GSTA1	-->	MGP
GSTA1	-->	MUC5B
GSTA1	-->	RPS4Y1
GSTA1	-->	TFF3
GSTA1	-->	TMEM243
GSTA1	-->	TRAM1
GSTA1	-->	TSPAN1
GSTA1	-->	TSPAN8
GSTO1	-->	ATP6V0B

GSTO1	-->	FABP5
GSTO1	-->	FBP1
GSTO1	-->	LGALS3
GSTO1	-->	S100A11
H2AFY	-->	ATP6V0B
H2AFY	-->	LIMS1
HES1	-->	TSC22D1
HEXB	-->	PPT1
HEXB	-->	SCPEP1
HHIP	-->	ALPL
HHIP	-->	C4BPA
HHIP	-->	CA2
HHIP	-->	CACNA2D2
HHIP	-->	CAPG
HHIP	-->	CLIC3
HHIP	-->	CTSE
HHIP	-->	FASN
HHIP	-->	FHL1
HHIP	-->	KRT17
HHIP	-->	LAMP3
HHIP	-->	LPL
HHIP	-->	MDK
HHIP	-->	MFSD2A
HHIP	-->	PARM1
HHIP	-->	PGC
HHIP	-->	PLA2G1B
HHIP	-->	SDR16C5
HHIP	-->	SLC22A31
HHIP	-->	SLC6A14
HHIP	-->	TSPAN1
HHIP	-->	WIF1
HLA.DMB	-->	ALPL
HLA.DMB	-->	CAPG
HLA.DMB	-->	CPM
HLA.DMB	-->	HLA.DMA
HLA.DMB	-->	IGSF6
HLA.DMB	-->	TREM2
HLA.DPA1	-->	A2M
HLA.DPA1	-->	BGN
HLA.DPA1	-->	CD163
HLA.DPA1	-->	CHI3L2
HLA.DPA1	-->	HLA.DMA

HLA.DPA1	-->	HLA.DMB
HLA.DPA1	-->	HLA.DRB1
HLA.DPA1	-->	LGALS7B
HLA.DPA1	-->	MMP1
HLA.DPA1	-->	MS4A4A
HLA.DPA1	-->	RPS4Y1
HLA.DPA1	-->	SPP1
HLA.DPB1	---	AIF1
HLA.DPB1	---	C1QA
HLA.DPB1	-->	CCDC80
HLA.DPB1	-->	FOLR2
HLA.DPB1	-->	GPX1
HLA.DPB1	-->	HLA.DPA1
HLA.DPB1	---	HLA.DQA1
HLA.DPB1	-->	HLA.DRB1
HLA.DPB1	-->	HLA.DRB5
HLA.DPB1	-->	LAPTM5
HLA.DPB1	-->	MYC
HLA.DPB1	-->	RPS4Y1
HLA.DPB1	-->	SCGB1A1
HLA.DPB1	-->	SEPP1
HLA.DPB1	-->	TYROBP
HLA.DQA1	---	AIF1
HLA.DQA1	-->	C15orf48
HLA.DQA1	---	C1QA
HLA.DQA1	---	C1QB
HLA.DQA1	-->	CCL18
HLA.DQA1	-->	CD14
HLA.DQA1	-->	DCN
HLA.DQA1	-->	GCHFR
HLA.DQA1	-->	GGT1
HLA.DQA1	-->	HLA.DMA
HLA.DQA1	-->	HLA.DMB
HLA.DQA1	-->	HLA.DPA1
HLA.DQA1	-->	HLA.DRB5
HLA.DQA1	-->	ITGA2
HLA.DQA1	-->	KRT5
HLA.DQA1	-->	LILRB4
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HLA.DQA1	-->	MS4A4A
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HLA.DRA	-->	ASPH
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HLA.DRA	-->	CALD1
HLA.DRA	-->	COL6A2
HLA.DRA	-->	COMP
HLA.DRA	-->	CTSK
HLA.DRA	-->	CTSL
HLA.DRA	-->	CTSS
HLA.DRA	-->	CYBA
HLA.DRA	-->	CYP27A1
HLA.DRA	-->	DCN
HLA.DRA	-->	FBLN1
HLA.DRA	-->	FCER1G
HLA.DRA	-->	FOSB
HLA.DRA	-->	HLA.DMA
HLA.DRA	-->	HLA.DPA1
HLA.DRA	---	HLA.DPB1
HLA.DRA	---	HLA.DQA1
HLA.DRA	-->	HLA.DRB1
HLA.DRA	-->	HLA.DRB5
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HLA.DRA	-->	LCN2
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HLA.DRA	-->	LYZ
HLA.DRA	-->	MEG3
HLA.DRA	-->	MFAP4
HLA.DRA	-->	NBL1
HLA.DRA	-->	NCKAP5
HLA.DRA	-->	OLFML3
HLA.DRA	-->	RARRES2
HLA.DRA	-->	SCGB3A1
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HLA.DRA	-->	TNNC1
HLA.DRA	-->	TYROBP
HLA.DRB1	-->	AP2S1

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HLA.DRB1	-->	CAPG
HLA.DRB1	-->	CD63
HLA.DRB1	-->	COMP
HLA.DRB1	-->	CTSH
HLA.DRB1	-->	CYBA
HLA.DRB1	-->	FBP1
HLA.DRB1	-->	GRN
HLA.DRB1	-->	HLA.DMA
HLA.DRB1	-->	HLA.DMB
HLA.DRB1	-->	HSPA1A
HLA.DRB1	-->	LGALS1
HLA.DRB1	-->	RPS4Y1
HLA.DRB1	-->	S100A11
HLA.DRB5	-->	APOC1
HLA.DRB5	-->	BGN
HLA.DRB5	-->	CPM
HLA.DRB5	-->	CTSE
HLA.DRB5	-->	CTSH
HLA.DRB5	-->	CYP1B1
HLA.DRB5	-->	DAPK2
HLA.DRB5	-->	FOLR2
HLA.DRB5	-->	GSN
HLA.DRB5	-->	HLA.DPA1
HLA.DRB5	-->	HLA.DRB1
HLA.DRB5	-->	LIMS1
HLA.DRB5	-->	MGP
HLA.DRB5	-->	MUC5B
HLA.DRB5	-->	SCGB3A1
HLA.DRB5	-->	SERPINA1
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HLA.DRB5	-->	SPP1
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HLA.DRB5	-->	WFDC2
HMGB3	-->	ANOS1
HPCAL1	-->	ODC1
HSPA1A	-->	ATF3
HSPA1A	-->	SERPINH1
HSPA1A	-->	SFTPC
HTRA3	-->	FBLN2
HTRA3	-->	FBN1

HTRA3	-->	MXRA8
HTRA3	-->	OLFML3
HTRA3	-->	SFRP4
IGF1	-->	COL14A1
IGF1	-->	CXCL12
IGF1	-->	FBN1
IGF1	-->	GPX1
IGF1	-->	IGFBP4
IGF1	-->	MOXD1
IGF1	-->	OLFML3
IGFBP2	-->	CAPN2
IGFBP2	-->	FBXO32
IGFBP2	-->	SEMA3B
IGFBP4	-->	FOSB
IGFBP4	-->	SELM
IGFBP5	-->	ADH1B
IGFBP5	-->	ARHGEF26
IGFBP5	-->	C7
IGFBP5	-->	CCDC80
IGFBP5	-->	CTGF
IGFBP5	-->	CXCL12
IGFBP5	-->	FBXO32
IGFBP5	-->	IGFBP2
IGFBP5	-->	IGFBP4
IGFBP5	-->	LGALS1
IGFBP5	-->	PMP22
IGFBP5	-->	PSAP
IGFBP5	-->	PTGDS
IGFBP5	-->	SERPINA1
IGFBP5	-->	SOX9
IGFBP5	-->	TIMP1
IGFBP5	-->	VCAN
INMT	-->	CDH11
INMT	-->	CTSK
INMT	-->	DKK3
INMT	-->	GPC3
INMT	-->	LPL
INMT	-->	LTBP2
INMT	-->	SFRP2
ISLR	-->	CCDC80
ISLR	-->	COL5A1
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ISLR	-->	DAPK2
ISLR	-->	EFEMP1
ISLR	-->	FBN1
ISLR	-->	HTRA3
ISLR	-->	MEG3
ISLR	-->	NTM
ISLR	-->	POSTN
ISLR	-->	RTKN2
ISLR	-->	TMEM45A
ISLR	-->	TSPAN1
ITGA2	-->	CD24
ITGA2	-->	CDH1
ITGA2	-->	CLDN1
ITGA2	-->	CXADR
ITGA2	-->	DUSP6
ITGA2	-->	EGFR
ITGA2	-->	EVA1A
ITGA2	-->	KRT17
ITGA2	-->	LAMB3
ITGA2	-->	OCIAD2
ITGA2	-->	PRSS8
ITGA2	-->	S100A2
ITGA2	-->	SOX9
ITGA2	-->	SYTL1
KIAA1324	-->	ARFGEF3
KIAA1324	-->	CRACR2B
KIAA1324	-->	DHRS3
KIAA1324	-->	EGFR
KIAA1324	-->	SCNN1B
KIAA1324	-->	SOX9
KIAA1324	-->	VSIG2
KRT15	-->	ALDH3A1
KRT15	-->	ASAH1
KRT15	-->	BCAM
KRT15	-->	CD24
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KRT15	-->	CRNDE
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KRT15	-->	HES1
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KRT15	-->	IGFBP2
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KRT6A	-->	BGN
KRT6A	-->	C10orf10
KRT6A	-->	COL4A3
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KRT6A	-->	COL5A2
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KRT6A	-->	CXCL14
KRT6A	-->	CYP1B1
KRT6A	-->	DAPK2
KRT6A	-->	DPT
KRT6A	-->	FBLN1
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KRT6A	-->	LCN2
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LAMA3	-->	ALDH3A1
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LAMB3	-->	BCAM
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LAMB3	-->	MGLL

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LAMP3	-->	SCD
LAMP3	-->	SFTPA1
LAMP3	-->	SFTPC
LAMP3	-->	SFTPD
LAMP3	-->	SLC6A14
LAPTM5	-->	ACTB
LAPTM5	-->	FBP1
LAPTM5	-->	HES1
LAPTM5	-->	HOOK2
LAPTM5	-->	LILRB4
LAPTM5	-->	LPL
LAPTM5	-->	LYZ
LAPTM5	-->	NEAT1
LAPTM5	-->	SELM
LAPTM5	-->	SERPINH1
LAPTM5	-->	SGK1
LAPTM5	-->	TGFBI
LAPTM5	-->	TREM2
LAPTM5	-->	VIM
LCN2	-->	AGR2
LCN2	-->	BPIFB1
LCN2	-->	C15orf48
LCN2	-->	C3
LCN2	-->	CDH1
LCN2	-->	CP

LCN2	-->	CTSD
LCN2	-->	CTSL
LCN2	-->	CXCL1
LCN2	-->	CYBA
LCN2	-->	GKN2
LCN2	-->	LGALS1
LCN2	-->	MDK
LCN2	-->	MEG3
LCN2	-->	RAB25
LCN2	-->	RP11.532F12.5
LCN2	-->	SLC6A14
LCN2	-->	SPINT1
LCN2	-->	TMC5
LCN2	-->	TMEM45A
LCN2	-->	TSPAN1
LCN2	-->	TSPAN8
LCN2	-->	WFDC2
LDLR	-->	CXADR
LDLR	-->	CYR61
LDLR	-->	DUSP6
LDLR	-->	FAM129B
LDLR	-->	FASN
LDLR	-->	FOSB
LDLR	-->	NCOA7
LDLR	-->	RAB11FIP1
LDLR	-->	SGMS2
LDLR	-->	TRIB1
LGALS1	-->	ACTB
LGALS1	-->	ADGRF5
LGALS1	-->	AGR3
LGALS1	-->	ATOX1
LGALS1	-->	ATP1A1
LGALS1	-->	CD55
LGALS1	-->	CD9
LGALS1	-->	COX6C
LGALS1	-->	CRNDE
LGALS1	-->	CTSZ
LGALS1	-->	CYBA
LGALS1	-->	HLA.DMA
LGALS1	-->	LIMS1
LGALS1	-->	LY96
LGALS1	-->	SCGB3A1

LGALS1	-->	SFTPA1
LGALS1	-->	SFTPC
LGALS1	-->	TGFBI
LGALS1	-->	TIMP3
LGALS1	-->	TYMP
LGALS1	-->	VIM
LGALS1	-->	WFDC2
LGALS3	-->	BLVRB
LGALS3	-->	CAPG
LGALS3	-->	CD63
LGALS3	-->	CD9
LGALS3	-->	CES1
LGALS3	-->	GLUL
LGALS3	-->	H2AFY
LGALS3	-->	PLA2G7
LGALS3	-->	TGFBI
LGALS7B	-->	ABCA3
LGALS7B	-->	AGR2
LGALS7B	-->	ALDH3A1
LGALS7B	-->	ANOS1
LGALS7B	-->	C1S
LGALS7B	-->	CAV2
LGALS7B	-->	CCDC80
LGALS7B	-->	CTSD
LGALS7B	-->	CTSK
LGALS7B	-->	CYP1B1
LGALS7B	-->	DAPK2
LGALS7B	-->	DCN
LGALS7B	-->	FGFBP1
LGALS7B	-->	GPC3
LGALS7B	-->	HMGB3
LGALS7B	-->	IGF1
LGALS7B	-->	ITGA2
LGALS7B	-->	KIAA1324
LGALS7B	-->	KRT5
LGALS7B	-->	KRT6A
LGALS7B	-->	LTBP2
LGALS7B	-->	MBIP
LGALS7B	-->	MYRF
LGALS7B	-->	PLLP
LGALS7B	-->	PTGDS
LGALS7B	-->	RPS4Y1

LGALS7B	-->	RTKN2
LGALS7B	-->	S100A2
LGALS7B	-->	SCNN1B
LGALS7B	-->	SERPINB5
LGMN	-->	CREG1
LGMN	-->	MFSD1
LILRB4	-->	C15orf48
LILRB4	-->	CA2
LILRB4	-->	CTSH
LILRB4	-->	FAM105A
LILRB4	-->	MYO1B
LILRB4	-->	NNMT
LIMS1	-->	A2M
LINC01272	-->	C15orf48
LINC01272	-->	PLA2G7
LINC01272	-->	SEPP1
LINC01272	-->	SLC16A10
LIPA	-->	BLVRB
LIPA	-->	LGMN
LIPA	-->	PLA2G7
LIPA	-->	PLD3
LIPA	-->	TFRC
LMO3	-->	CADM1
LMO3	-->	CYP4B1
LMO3	-->	FLRT3
LMO3	-->	RNF145
LPCAT1	-->	ALPL
LPCAT1	-->	ATP11A
LPCAT1	-->	FASN
LPCAT1	-->	NEAT1
LPCAT1	-->	RNF145
LPCAT1	-->	TMC5
LPL	-->	ALCAM
LPL	-->	CA2
LPL	-->	CD9
LPL	-->	CYP27A1
LPL	-->	DAB2
LPL	-->	FABP5
LPL	-->	FHL1
LPL	-->	GPC3
LPL	-->	IGSF6
LPL	-->	LIMS1

LPL	-->	LINC01272
LPL	-->	LIPA
LPL	-->	SPP1
LPL	-->	TREM2
LRRK2	-->	C15orf48
LRRK2	-->	CRNDE
LRRK2	-->	LPCAT1
LRRK2	-->	MDK
LRRK2	-->	SFTPA1
LRRK2	-->	SFTPC
LRRK2	-->	TACC2
LST1	-->	AP2S1
LST1	-->	CD63
LST1	-->	COL8A1
LST1	-->	CYBB
LST1	-->	FBP1
LST1	-->	GGT1
LST1	-->	HLA.DRB1
LST1	-->	KRT6A
LST1	-->	LAPTM5
LST1	-->	MARCO
LST1	-->	MMP1
LST1	-->	MRC1
LST1	-->	PLD3
LST1	-->	SH3BGRL3
LTBP1	-->	BRI3
LTBP1	-->	COL8A1
LTBP1	-->	LTBP2
LTBP1	-->	VCAN
LTBP2	-->	CAV2
LTBP2	-->	CDH11
LTBP2	-->	COL8A1
LTBP2	-->	DKK3
LTBP2	-->	LTBP4
LTBP2	-->	MOXD1
LTBP4	-->	GPC3
LTBP4	-->	RARRES1
LUM	-->	A2M
LUM	-->	AEBP1
LUM	-->	C7
LUM	-->	COL5A2
LUM	-->	CTSL

LUM	-->	CYP1B1
LUM	-->	MFAP4
LUM	-->	MMP2
LUM	-->	PTGDS
LUM	-->	SPARC
LUM	-->	SPARCL1
LUM	-->	TCF21
LUM	-->	TIMP1
LYZ	-->	CKB
LYZ	-->	CTSS
LYZ	-->	IGFBP4
LYZ	-->	LGMN
LYZ	-->	MYL9
LYZ	-->	NGFRAP1
LYZ	-->	RPS4Y1
LYZ	-->	SLC16A10
LYZ	-->	VIM
MAGI3	-->	FMO2
MAGI3	-->	LMO3
MAGI3	-->	PEG10
MAP2	-->	A2M
MAP2	-->	ABCA7
MAP2	-->	CLIC5
MAP2	-->	COL4A3
MAP2	-->	COL4A4
MAP2	-->	COL5A1
MAP2	-->	COL6A1
MAP2	-->	CST6
MAP2	-->	ERBB3
MAP2	-->	FGG
MAP2	-->	FHL1
MAP2	-->	IGFBP5
MAP2	-->	ITGA2
MAP2	-->	KRT5
MAP2	-->	LAMA3
MAP2	-->	MMP1
MAP2	-->	MYRF
MAP2	-->	NEBL
MAP2	-->	NTM
MAP2	-->	RAB17
MAP2	-->	SCEL
MAP2	-->	TFF3

MAP2	-->	TNNC1
MARCO	-->	A2M
MARCO	-->	APOC1
MARCO	-->	CCL18
MARCO	-->	CCL20
MARCO	-->	CES1
MARCO	-->	CYBB
MARCO	-->	CYP27A1
MARCO	-->	EMP3
MARCO	-->	FBP1
MARCO	-->	GCHFR
MARCO	-->	GSTO1
MARCO	-->	H2AFY
MARCO	-->	IGFBP4
MARCO	-->	LGMN
MARCO	-->	LINC01272
MARCO	-->	LYZ
MARCO	-->	OCIAD2
MARCO	-->	PLA2G7
MARCO	-->	S100A11
MARCO	-->	SEPP1
MARCO	-->	SERPINA1
MARCO	-->	TIMP3
MARCO	-->	TMEM45A
MARCO	-->	VCAN
MBIP	-->	ASPH
MBIP	-->	EVA1A
MBIP	-->	FAM105A
MBIP	-->	PARM1
MBIP	-->	SNHG8
MDK	-->	CEBPD
MDK	-->	MFSD2A
MDK	-->	RARRES3
MEG3	-->	ARL4D
MEG3	-->	C4BPA
MEG3	-->	CTSZ
MEG3	-->	CXCL14
MEG3	-->	FHL1
MEG3	-->	LGMN
MEG3	-->	LTBP4
MEG3	-->	MYC
MEG3	-->	NGFRAP1

MEG3	-->	SERPINH1
MEG3	-->	VCAN
MERTK	-->	CPM
MERTK	-->	CTSB
MERTK	-->	FGG
MERTK	-->	GGT1
MERTK	-->	GPNMB
MERTK	-->	HLA.DRB1
MERTK	-->	MAP2
MERTK	-->	SEPP1
MERTK	-->	SERPINA1
MERTK	-->	SLC16A10
MERTK	-->	SPP1
MFAP4	-->	A2M
MFAP4	-->	ADH1B
MFAP4	-->	AEBP1
MFAP4	-->	C7
MFAP4	-->	CALD1
MFAP4	-->	CES1
MFAP4	-->	CTHRC1
MFAP4	-->	CXCL12
MFAP4	-->	EFEMP1
MFAP4	-->	FHL1
MFAP4	-->	ISLR
MFAP4	-->	MGP
MFAP4	-->	MMP2
MFAP4	-->	OLFML3
MFAP4	-->	PLAC9
MFAP4	-->	PRELP
MFAP4	-->	PTGDS
MFAP4	-->	SPARCL1
MFAP4	-->	TCF21
MFAP4	-->	TIMP3
MGLL	-->	ANKRD29
MGLL	-->	CXCL14
MGLL	-->	CYBA
MGLL	-->	HPCAL1
MGLL	-->	SCD
MGP	-->	CALD1
MGP	-->	CTGF
MGP	-->	GPX1
MGP	-->	GSN

MGP	-->	OCIAD2
MGP	-->	PLA2G1B
MGP	-->	PLS3
MGP	-->	SCGB3A1
MGP	-->	SERPING1
MGP	-->	SGK1
MGP	-->	SH3BGRL3
MGP	-->	TIMP1
MGP	-->	TSC22D1
MGP	-->	TSPAN8
MGP	-->	VIM
MLPH	-->	SELM
MMP1	-->	ALDH3A1
MMP1	-->	KRT15
MMP1	-->	KRT5
MMP1	-->	LGALS7B
MMP1	-->	SERPINB5
MMP1	-->	SFTPC
MMP2	-->	ANXA3
MMP2	-->	CTSK
MMP2	-->	LTBP1
MMP2	-->	PMP22
MMP2	-->	SPARC
MOXD1	-->	ELN
MOXD1	-->	FGF7
MPZL2	-->	ASPH
MPZL2	-->	BCAM
MPZL2	-->	CALM3
MPZL2	-->	CD9
MPZL2	-->	CRNDE
MPZL2	-->	CTSH
MPZL2	-->	CXADR
MPZL2	-->	DUSP6
MPZL2	-->	EGFR
MPZL2	-->	FLRT3
MPZL2	-->	ITGA2
MPZL2	-->	LAMB3
MPZL2	-->	MBIP
MPZL2	-->	MFSD1
MPZL2	-->	MFSD2A
MPZL2	-->	OCIAD2
MPZL2	-->	PPA1

MPZL2	-->	PRSS8
MPZL2	-->	RNF145
MPZL2	-->	S100A2
MPZL2	-->	SDR16C5
MPZL2	-->	VSIG2
MRC1	-->	ALCAM
MRC1	-->	GLUL
MRC1	-->	IGSF6
MRC1	-->	LPL
MRC1	-->	MGLL
MRC1	-->	MYL9
MRC1	-->	PPT1
MRC1	-->	TFRC
MRC1	-->	TGFBI
MRC1	-->	TSC22D1
MRC1	-->	VCAN
MS4A4A	-->	ACP5
MS4A4A	-->	BLVRB
MS4A4A	-->	C4BPA
MS4A4A	-->	CD14
MS4A4A	-->	CD163
MS4A4A	-->	CD63
MS4A4A	-->	CD68
MS4A4A	-->	CFD
MS4A4A	-->	CTSL
MS4A4A	-->	CTSS
MS4A4A	-->	CYP27A1
MS4A4A	-->	EFEMP1
MS4A4A	-->	FHL2
MS4A4A	-->	FOLR2
MS4A4A	-->	GGT1
MS4A4A	-->	GPNMB
MS4A4A	-->	HLA.DRB1
MS4A4A	-->	LAMP3
MS4A4A	-->	LST1
MS4A4A	-->	LY96
MS4A4A	-->	MARCO
MS4A4A	-->	MS4A7
MS4A4A	-->	MYC
MS4A4A	-->	NCOA7
MS4A4A	-->	NEBL
MS4A4A	-->	PDLIM3

MS4A4A	-->	PGC
MS4A4A	-->	PLA2G7
MS4A4A	-->	PLS3
MS4A4A	-->	RAB25
MS4A4A	-->	SEPP1
MS4A4A	-->	SPP1
MS4A4A	-->	TREM2
MS4A4A	-->	VIM
MS4A4A	-->	VSIG4
MS4A6A	-->	CD14
MS4A6A	-->	CD163
MS4A6A	-->	CSTB
MS4A6A	-->	CTSL
MS4A6A	-->	CYP27A1
MS4A6A	-->	FBP1
MS4A6A	-->	FOLR2
MS4A6A	-->	FPR3
MS4A6A	-->	GGT1
MS4A6A	-->	GPX1
MS4A6A	-->	HLA.DMB
MS4A6A	-->	IGSF6
MS4A6A	-->	LGALS1
MS4A6A	-->	LGALS7B
MS4A6A	-->	LGMN
MS4A6A	-->	LIPA
MS4A6A	-->	LPL
MS4A6A	-->	LY96
MS4A6A	-->	MAP2
MS4A6A	-->	MARCO
MS4A6A	-->	MFSD1
MS4A6A	-->	MS4A4A
MS4A6A	-->	MS4A7
MS4A6A	-->	MYRF
MS4A6A	-->	PMP22
MS4A6A	-->	S100A11
MS4A6A	-->	SDC2
MS4A6A	-->	SDC4
MS4A6A	-->	SH3BGRL3
MS4A6A	-->	SPP1
MS4A6A	-->	TGFBI
MS4A7	-->	ACP5
MS4A7	-->	AGR2

MS4A7	-->	C1R
MS4A7	-->	C1S
MS4A7	-->	CAV2
MS4A7	-->	CCL20
MS4A7	-->	CD163
MS4A7	-->	CD68
MS4A7	-->	CPM
MS4A7	-->	CTSS
MS4A7	-->	DAB2
MS4A7	-->	FAM105A
MS4A7	-->	FGFBP1
MS4A7	-->	FPR3
MS4A7	-->	GLUL
MS4A7	-->	LCN2
MS4A7	-->	LIMS1
MS4A7	-->	LINC01272
MS4A7	-->	LST1
MS4A7	-->	LYZ
MS4A7	-->	MFSD1
MS4A7	-->	MRC1
MS4A7	-->	MSR1
MS4A7	-->	PPA1
MS4A7	-->	RNF130
MS4A7	-->	SGK1
MS4A7	-->	SLC16A10
MS4A7	-->	TFRC
MS4A7	-->	VSIG4
MS4A7	-->	WFDC2
MSMO1	-->	LDLR
MSMO1	-->	SCD
MSMO1	-->	TRAM1
MSMO1	-->	ZDHHC3
MSR1	-->	ACP5
MSR1	-->	APOC1
MSR1	-->	CD68
MSR1	-->	CTGF
MSR1	-->	CTSD
MSR1	-->	CYBB
MSR1	-->	FPR3
MSR1	-->	GCHFR
MSR1	-->	LAPTM5
MSR1	-->	LYZ

MSR1	-->	PLA2G7
MSR1	-->	RTKN2
MSR1	-->	SDC2
MSR1	-->	SH3BGRL3
MT.ND1	-->	ALCAM
MUC5B	-->	AGR2
MUC5B	-->	BCAM
MUC5B	-->	BPIFB1
MUC5B	-->	C3
MUC5B	-->	CCDC80
MUC5B	-->	CLIC3
MUC5B	-->	CP
MUC5B	-->	CPM
MUC5B	-->	CRACR2B
MUC5B	-->	CTSE
MUC5B	-->	CTSH
MUC5B	-->	DMBT1
MUC5B	-->	FABP5
MUC5B	-->	GCHFR
MUC5B	-->	LCN2
MUC5B	-->	LGALS3
MUC5B	-->	MBIP
MUC5B	-->	RARRES1
MUC5B	-->	SCGB3A1
MUC5B	-->	SCNN1B
MUC5B	-->	SFTPD
MUC5B	-->	SLC6A14
MUC5B	-->	SMIM22
MUC5B	-->	SPARC
MUC5B	-->	STARD10
MUC5B	-->	TFF3
MUC5B	-->	TMEM45A
MUC5B	-->	TSPAN1
MUC5B	-->	TSPAN8
MUC5B	-->	VSIG2
MUC5B	-->	WFDC2
MXRA8	-->	CDH11
MXRA8	-->	LTBP1
MXRA8	-->	MMP2
MYC	-->	ATF3
MYC	-->	CYR61
MYC	-->	FOSB

MYC	-->	GEM
MYC	-->	IER3
MYC	-->	LDLR
MYC	-->	SNHG8
MYC	-->	TRIB1
MYL12B	-->	ACTB
MYL12B	-->	CALM2
MYL12B	-->	CD47
MYL12B	-->	CD9
MYL12B	-->	COX6C
MYL12B	-->	RARRES3
MYL9	-->	CD151
MYL9	-->	NGFRAP1
MYL9	-->	SELM
MYL9	-->	SERPINH1
MYO1B	-->	FAM129B
MYO1B	-->	MLLT4
MYRF	-->	ADH1B
MYRF	-->	AGER
MYRF	-->	ARHGEF26
MYRF	-->	ARL4D
MYRF	-->	ASPN
MYRF	-->	C7
MYRF	-->	CACNA2D2
MYRF	-->	CAV2
MYRF	-->	CCDC80
MYRF	-->	CCL20
MYRF	-->	CDH11
MYRF	-->	CES1
MYRF	-->	CFD
MYRF	-->	CHI3L2
MYRF	-->	CLIC5
MYRF	-->	COL1A2
MYRF	-->	COL4A3
MYRF	-->	COL6A3
MYRF	-->	COMP
MYRF	-->	CST6
MYRF	-->	CTGF
MYRF	-->	CXCL12
MYRF	-->	CYP1B1
MYRF	-->	DAPK2
MYRF	-->	EMP3

MYRF	-->	FAM213A
MYRF	-->	GGTLC1
MYRF	-->	GSN
MYRF	-->	GSTA1
MYRF	-->	IGFBP5
MYRF	-->	ISLR
MYRF	-->	LAPTM5
MYRF	-->	MLPH
MYRF	-->	MMP2
MYRF	-->	MT.ND1
MYRF	-->	MYC
MYRF	-->	NCKAP5
MYRF	-->	NTM
MYRF	-->	PDLIM3
MYRF	-->	PLLP
MYRF	-->	POSTN
MYRF	-->	PRELP
MYRF	-->	RARRES2
MYRF	-->	RPS4Y1
MYRF	-->	SCEL
MYRF	-->	SFRP2
MYRF	-->	SOX9
MYRF	-->	SPARCL1
MYRF	-->	SYT8
MYRF	-->	SYTL1
MYRF	-->	TCF21
MYRF	-->	THY1
NBL1	-->	C1R
NBL1	-->	C1S
NBL1	-->	CDH11
NBL1	-->	CHI3L2
NBL1	-->	CTSH
NBL1	-->	DKK3
NBL1	-->	ELN
NBL1	-->	FBLN1
NBL1	-->	HTRA3
NBL1	-->	LUM
NBL1	-->	MFAP4
NBL1	-->	MMP2
NBL1	-->	MXRA8
NBL1	-->	RARRES2
NBL1	-->	TPM2

NCKAP5 --> CACNA2D2
NCKAP5 --> CSTB
NCKAP5 --> CTHRC1
NCKAP5 --> CTSL
NCKAP5 --> DAPK2
NCKAP5 --> FBLN2
NCKAP5 --> FMO2
NCKAP5 --> GGTLC1
NCKAP5 --> HTRA3
NCKAP5 --> IGFBP5
NCKAP5 --> OCIAD2
NCKAP5 --> PEG10
NCKAP5 --> PLLP
NCKAP5 --> PMP22
NCKAP5 --> RTKN2
NCKAP5 --> SERPINA1
NCKAP5 --> SFRP4
NCKAP5 --> SPARCL1
NEAT1 --> ACTB
NEAT1 --> ATP1A1
NEAT1 --> CEBPD
NEAT1 --> HOOK2
NEAT1 --> RNF145
NEBL --> ABCA7
NEBL --> BGN
NEBL --> CALD1
NEBL --> COL4A4
NEBL --> COL6A3
NEBL --> CXCL14
NEBL --> GSTA1
NEBL --> HHIP
NEBL --> MLLT4
NEBL --> MUC5B
NEBL --> PDLIM3
NEBL --> SCEL
NEBL --> SPARCL1
NNMT --> C10orf10
NNMT --> CEBPD
NNMT --> FGF7
NNMT --> IGFBP4
NNMT --> SELM
NTM --> AP2S1

NTM	-->	COL5A1
NTM	-->	COL8A1
NTM	-->	CTGF
NTM	-->	CTSE
NTM	-->	EVA1A
NTM	-->	IGFBP5
NTM	-->	INMT
NTM	-->	MYO1B
NTM	-->	RTKN2
NTM	-->	SCEL
NTM	-->	SEMA3B
NTM	-->	TNNC1
OCIAD2	-->	CD9
OCIAD2	-->	CRNDE
OCIAD2	-->	CTNNA1
OCIAD2	-->	CXADR
OCIAD2	-->	EVA1A
OCIAD2	-->	HMGB3
OCIAD2	-->	LMO3
OCIAD2	-->	MDK
OCIAD2	-->	RARRES3
OCIAD2	-->	S100A2
OLFML3	-->	APOD
OLFML3	-->	COL14A1
OLFML3	-->	DKK3
OLFML3	-->	FGF7
OLFML3	-->	LTBP1
OLFML3	-->	MXRA8
PARM1	-->	MLPH
PARM1	-->	MYO1B
PARM1	-->	PRKCZ
PCOLCE	-->	C1R
PCOLCE	-->	C1S
PCOLCE	-->	CCDC80
PCOLCE	-->	COL1A2
PCOLCE	-->	COL3A1
PCOLCE	-->	COL5A2
PCOLCE	-->	COL6A1
PCOLCE	-->	COL6A2
PCOLCE	-->	COL6A3
PCOLCE	-->	CTHRC1
PCOLCE	-->	DPT

PCOLCE	-->	FSTL1
PCOLCE	-->	ISLR
PCOLCE	-->	MOXD1
PCOLCE	-->	OLFML3
PCOLCE	-->	RARRES2
PCOLCE	-->	THY1
PCOLCE	-->	TIMP1
PCOLCE	-->	TPM2
PDLIM2	-->	CD151
PDLIM3	-->	C1S
PDLIM3	-->	CDH11
PDLIM3	-->	CFD
PDLIM3	-->	FHL1
PDLIM3	-->	GEM
PDLIM3	-->	IGF1
PDLIM3	-->	IGFBP5
PDLIM3	-->	MYC
PDLIM3	-->	NBL1
PDLIM3	-->	NEAT1
PDLIM3	-->	NNMT
PDLIM3	-->	PTGDS
PDLIM3	-->	RARRES2
PDLIM3	-->	TPM2
PEBP4	-->	AK1
PEBP4	-->	C12orf49
PEBP4	-->	CACNA2D2
PEBP4	-->	CPM
PEBP4	-->	CSTB
PEBP4	-->	FABP5
PEBP4	-->	FBP1
PEBP4	-->	FGGY
PEBP4	-->	LGMN
PEBP4	-->	MBIP
PEBP4	-->	MGLL
PEBP4	-->	MID1IP1
PEBP4	-->	MLPH
PEBP4	-->	NGFRAP1
PEBP4	-->	SDR16C5
PEBP4	-->	SERPINA1
PEBP4	-->	SUSD2
PEBP4	-->	TMEM45A
PEBP4	-->	VSIG2

PEG10	-->	CTGF
PEG10	-->	FAM129B
PEG10	-->	RAB17
PGC	-->	ABCA3
PGC	-->	ALPL
PGC	-->	BPIFB1
PGC	-->	CACNA2D2
PGC	-->	CEBPD
PGC	-->	CTSB
PGC	-->	CTSH
PGC	-->	DMBT1
PGC	-->	FGGY
PGC	-->	FLRT3
PGC	-->	GKN2
PGC	-->	LRRK2
PGC	-->	MFSD2A
PGC	-->	MGLL
PGC	-->	MID1IP1
PGC	-->	MLPH
PGC	-->	MPZL2
PGC	-->	PARM1
PGC	-->	PEBP4
PGC	-->	PRSS8
PGC	-->	SDR16C5
PGC	-->	SFTPA1
PGC	-->	SFTPC
PGC	-->	SFTPD
PGC	-->	SLC22A31
PGC	-->	SLC6A14
PGC	-->	SUSD2
PGC	-->	TACC2
PGC	-->	TSPAN8
PGC	-->	WIF1
PLA2G1B	-->	ABCA3
PLA2G1B	-->	ANKRD29
PLA2G1B	-->	C4BPA
PLA2G1B	-->	CA2
PLA2G1B	-->	CP
PLA2G1B	-->	CTSE
PLA2G1B	-->	CYBA
PLA2G1B	-->	DAB2
PLA2G1B	-->	DSTN

PLA2G1B	-->	EVA1A
PLA2G1B	-->	GGTLC1
PLA2G1B	-->	GKN2
PLA2G1B	-->	GSN
PLA2G1B	-->	LAMP3
PLA2G1B	-->	MDK
PLA2G1B	-->	MID1IP1
PLA2G1B	-->	MSMO1
PLA2G1B	-->	NNMT
PLA2G1B	-->	PEBP4
PLA2G1B	-->	PGC
PLA2G1B	-->	SDR16C5
PLA2G1B	-->	SERPINA1
PLA2G1B	-->	SGMS2
PLA2G1B	-->	SLC6A14
PLA2G7	-->	CYP27A1
PLA2G7	-->	IGFBP4
PLA2G7	-->	IGSF6
PLA2G7	-->	LGMN
PLA2G7	-->	LILRB4
PLA2G7	-->	MFSD1
PLA2G7	-->	MGLL
PLA2G7	-->	SDR16C5
PLA2G7	-->	SEPP1
PLA2G7	-->	TFRC
PLA2G7	-->	VCAN
PLAC9	-->	EMP3
PLAC9	-->	FSTL1
PLAC9	-->	GSN
PLAC9	-->	IGFBP4
PLAC9	-->	NNMT
PLAC9	-->	PMP22
PLAC9	-->	TIMP3
PLD3	-->	LGMN
PLLP	-->	ANKRD29
PLLP	-->	ARL4D
PLLP	-->	ASAH1
PLLP	-->	CHI3L2
PLLP	-->	CLIC3
PLLP	-->	CTSH
PLLP	-->	FAM105A
PLLP	-->	GKN2

PLLP	-->	GPC3
PLLP	-->	GPNMB
PLLP	-->	LCN2
PLLP	-->	MGLL
PLLP	-->	MPZL2
PLLP	-->	MSMO1
PLLP	-->	PEBP4
PLLP	-->	PLA2G1B
PLLP	-->	PMP22
PLLP	-->	PPA1
PLLP	-->	RAB25
PLLP	-->	RPS4Y1
PLLP	-->	SDR16C5
PLLP	-->	SFTPC
PLLP	-->	SPARC
PLLP	-->	TIMP1
PLLP	-->	TMEM243
PLLP	-->	TSPAN8
PLLP	-->	VSIG2
PLLP	-->	WFDC2
PLS3	-->	ANXA3
PLS3	-->	CAV2
PLS3	-->	CHI3L2
PLS3	-->	GPC3
PLS3	-->	LAMP3
PLS3	-->	MSMO1
PLS3	-->	MYL9
PLS3	-->	PLLP
PLS3	-->	SERPINH1
PMP22	-->	AGR2
PMP22	-->	CES1
PMP22	-->	CFD
PMP22	-->	DAB2
PMP22	-->	EMP3
PMP22	-->	FABP5
PMP22	-->	FHL1
PMP22	-->	FOSB
PMP22	-->	VCAN
POSTN	-->	ADH1B
POSTN	-->	C7
POSTN	-->	CDH11
POSTN	-->	CFD

POSTN	-->	COL14A1
POSTN	-->	COL8A1
POSTN	-->	EMILIN1
POSTN	-->	FBXO32
POSTN	-->	IGFBP4
POSTN	-->	MDK
POSTN	-->	MOXD1
POSTN	-->	PRELP
POSTN	-->	TGFBI
PPA1	-->	DSTN
PPA1	-->	MYL12B
PRELP	-->	ADH1B
PRELP	-->	AEBP1
PRELP	-->	C10orf10
PRELP	-->	INMT
PRELP	-->	LTBP4
PRELP	-->	SFRP4
PRELP	-->	TIMP3
PRKCZ	-->	MLLT4
PRSS8	-->	CDH1
PRSS8	-->	CLDN1
PRSS8	-->	EVA1A
PRSS8	-->	PEG10
PRSS8	-->	PRKCZ
PSAP	-->	A2M
PSAP	-->	APLP2
PSAP	-->	CREG1
PSAP	-->	CTSZ
PSAP	-->	DSTN
PSAP	-->	FBP1
PSAP	-->	GRN
PSAP	-->	LDLR
PSAP	-->	LGALS1
PSAP	-->	TMC5
PSAP	-->	VIM
PTGDS	-->	A2M
PTGDS	-->	APOE
PTGDS	-->	C7
PTGDS	-->	CD9
PTGDS	-->	CXCL12
PTGDS	-->	CYR61
PTGDS	-->	INMT

PTGDS	-->	TCF21
RAB11FIP1	-->	CD55
RAB11FIP1	-->	NEAT1
RAB11FIP1	-->	SGMS2
RAB11FIP1	-->	SPINT1
RAB17	-->	PARM1
RAB25	-->	AK1
RAB25	-->	CD24
RAB25	-->	CDH1
RAB25	-->	CLDN1
RAB25	-->	CRNDE
RAB25	-->	CYP4B1
RAB25	-->	EGFR
RAB25	-->	ERBB3
RAB25	-->	FGGY
RAB25	-->	FLRT3
RAB25	-->	MPZL2
RAB25	-->	OCIAD2
RAB25	-->	RP11.532F12.5
RAB25	-->	SMIM22
RAB25	-->	STARD10
RAB25	-->	SYTL1
RAB25	-->	TREM2
RAB25	-->	TRIB1
RAB25	-->	TSPAN1
RAB25	-->	VSIG2
RARRES1	-->	C3
RARRES1	-->	SERPING1
RARRES2	-->	C1R
RARRES2	-->	C7
RARRES2	-->	CD63
RARRES2	-->	CXCL12
RARRES2	-->	CYR61
RARRES2	-->	DCN
RARRES2	-->	EMILIN1
RARRES2	-->	FBLN1
RARRES2	-->	GPC3
RARRES2	-->	LUM
RARRES2	-->	MFAP4
RARRES2	-->	MYL9
RARRES2	-->	NNMT
RARRES2	-->	OLFML3

RARRES2 --> PTGDS
RARRES2 --> SEPP1
RARRES3 --> POLR2L
RNF130 --> VIM
RP11.532F12 --> MDK
RP11.532F12 --> MLLT4
RP11.532F12 --> RAB17
RP11.532F12 --> STARD10
RPS4Y1 --> A2M
RPS4Y1 --> ALCAM
RPS4Y1 --> APOD
RPS4Y1 --> APOE
RPS4Y1 --> ARL4D
RPS4Y1 --> BRI3
RPS4Y1 --> C15orf48
RPS4Y1 --> CALM3
RPS4Y1 --> CEBPD
RPS4Y1 --> CREG1
RPS4Y1 --> CYP4B1
RPS4Y1 --> DHRS3
RPS4Y1 --> FAM105A
RPS4Y1 --> FMO2
RPS4Y1 --> HSPA1A
RPS4Y1 --> IFI6
RPS4Y1 --> ITGA2
RPS4Y1 --> LGMN
RPS4Y1 --> LTBP4
RPS4Y1 --> MID1IP1
RPS4Y1 --> MLPH
RPS4Y1 --> MT.ND1
RPS4Y1 --> RARRES1
RPS4Y1 --> SFTPC
RPS4Y1 --> SNHG8
RTKN2 --> ACTB
RTKN2 --> ADH1B
RTKN2 --> ALCAM
RTKN2 --> ANOS1
RTKN2 --> ANXA3
RTKN2 --> AP2S1
RTKN2 --> CA2
RTKN2 --> CACNA2D2
RTKN2 --> CALD1

RTKN2	-->	CCL20
RTKN2	-->	CES1
RTKN2	-->	CFH
RTKN2	-->	CHI3L2
RTKN2	-->	CLDN1
RTKN2	-->	CLIC3
RTKN2	-->	COL8A1
RTKN2	-->	CRACR2B
RTKN2	-->	CTSD
RTKN2	-->	CTSK
RTKN2	-->	CXCL14
RTKN2	-->	EFEMP1
RTKN2	-->	FAM105A
RTKN2	-->	FBN1
RTKN2	-->	FHL1
RTKN2	-->	FHL2
RTKN2	-->	FSTL1
RTKN2	-->	GPC3
RTKN2	-->	GPX1
RTKN2	-->	IGSF6
RTKN2	-->	LDLR
RTKN2	-->	LGALS3
RTKN2	-->	LINC01272
RTKN2	-->	LPCAT1
RTKN2	-->	LPL
RTKN2	-->	MEG3
RTKN2	-->	MRC1
RTKN2	-->	MT.ND1
RTKN2	-->	MUC5B
RTKN2	-->	NNMT
RTKN2	-->	PCYOX1
RTKN2	-->	PEBP4
RTKN2	-->	PLA2G7
RTKN2	-->	PLAC9
RTKN2	-->	PLEKHJ1
RTKN2	-->	PLLP
RTKN2	-->	PSAP
RTKN2	-->	SCD
RTKN2	-->	SERPING1
RTKN2	-->	SH3BGRL3
RTKN2	-->	SPARCL1
RTKN2	-->	TIMP1

RTKN2 --> TMEM45A
RTKN2 --> TRIB1
RTKN2 --> TSPAN8
S100A11 --> ACTB
S100A11 --> ATP6V1F
S100A11 --> CAPG
S100A11 --> CD63
S100A11 --> CEBPD
S100A11 --> CST6
S100A11 --> CSTB
S100A11 --> FOSB
S100A11 --> LGALS3
S100A11 --> MYL12B
S100A11 --> SEPP1
S100A2 --> BRI3
S100A2 --> CD9
S100A2 --> CKB
S100A2 --> CXCL1
S100A2 --> HES1
S100A2 --> IGFBP2
S100A2 --> KRT17
S100A2 --> LAMB3
S100A2 --> SNHG8
S100A2 --> SPINT1
SCD --> ATP11A
SCD --> BRI3
SCD --> CYBA
SCD --> MLPH
SCD --> TFRC
SCD --> ZDHHC3
SCEL --> ADGRF5
SCEL --> AGER
SCEL --> CD24
SCEL --> CDH1
SCEL --> CLIC5
SCEL --> COL4A3
SCEL --> COL8A1
SCEL --> CST6
SCEL --> CYP4B1
SCEL --> ETS2
SCEL --> GGTLC1
SCEL --> GKN2

SCEL	-->	HHIP
SCEL	-->	LAMA3
SCEL	-->	MYO1B
SCEL	-->	PRKCZ
SCGB1A1	-->	CALM2
SCGB1A1	-->	CEBPD
SCGB1A1	-->	FOSB
SCGB1A1	-->	GEM
SCGB1A1	-->	GSN
SCGB1A1	-->	HOOK2
SCGB1A1	-->	MYL9
SCGB1A1	-->	RPS4Y1
SCGB1A1	-->	SCGB3A2
SCGB3A1	-->	ACTB
SCGB3A1	-->	BPIFB1
SCGB3A1	-->	DUSP23
SCGB3A1	-->	RPS4Y1
SCGB3A1	-->	SCGB1A1
SCGB3A1	-->	SCGB3A2
SCGB3A1	-->	SFTPC
SCGB3A1	-->	TMEM45A
SCGB3A1	-->	TSC22D1
SCGB3A2	-->	ARFGEF3
SCGB3A2	-->	BCAM
SCGB3A2	-->	CAPN8
SCGB3A2	-->	CPM
SCGB3A2	-->	KIAA1324
SCGB3A2	-->	PEG10
SCGB3A2	-->	SCNN1B
SCNN1A	-->	FASN
SCNN1A	-->	LMO3
SCNN1B	-->	ERBB3
SCNN1B	-->	FMO2
SCNN1B	-->	IGFBP2
SCNN1B	-->	MAGI3
SCNN1B	-->	PARM1
SCNN1B	-->	PDLIM2
SCNN1B	-->	RP11.532F12.5
SCNN1B	-->	SCNN1A
SCNN1B	-->	SFTPC
SCPEP1	-->	CD9
SCPEP1	-->	ODC1

SDC2 --> C15orf48
SDC2 --> DSTN
SDC2 --> GEM
SDC2 --> GSN
SDC2 --> LILRB4
SDC2 --> LPL
SDC2 --> MDK
SDC2 --> RAB25
SDC2 --> SPP1
SDC4 --> ADGRF5
SDC4 --> ATP1A1
SDC4 --> BRI3
SDC4 --> C12orf49
SDC4 --> CDH1
SDC4 --> SGMS2
SDR16C5 --> FASN
SDR16C5 --> FGGY
SDR16C5 --> FLRT3
SDR16C5 --> MFSD2A
SDR16C5 --> RP11.532F12.5
SDR16C5 --> SEPP1
SDR16C5 --> TACC2
SELM --> NGFRAP1
SEMA3B --> EVA1A
SEPP1 --> A2M
SEPP1 --> C15orf48
SEPP1 --> CAPG
SEPP1 --> CEBPD
SEPP1 --> CFD
SEPP1 --> CREG1
SEPP1 --> FAM213A
SEPP1 --> IGFBP4
SEPP1 --> LGMN
SEPP1 --> MYC
SEPP1 --> ODC1
SEPP1 --> PCYOX1
SEPP1 --> PLD3
SEPP1 --> RARRES1
SEPP1 --> SERPING1
SEPP1 --> TSC22D1
SEPP1 --> VCAN
SERPINA1 --> A2M

SERPINA1	-->	CD47
SERPINA1	-->	CTSH
SERPINA1	-->	CXCL14
SERPINA1	-->	LIPA
SERPINA1	-->	NNMT
SERPINA1	-->	SCD
SERPINA1	-->	SCGB3A2
SERPINA1	-->	SDC4
SERPINA1	-->	TRAM1
SERPINA1	-->	ZDHHC3
SERPINB5	-->	FGFBP1
SERPINB5	-->	FHL2
SERPINB5	-->	GPX1
SERPINB5	-->	GSTA1
SERPINB5	-->	HLA.DMB
SERPINB5	-->	ITGA2
SERPINB5	-->	KIAA1324
SERPINB5	-->	KRT6A
SERPINB5	-->	LAMA3
SERPINB5	-->	LPCAT1
SERPINB5	-->	MEG3
SERPINB5	-->	MYRF
SERPINB5	-->	RAB25
SERPING1	-->	SCPEP1
SERPING1	-->	SELM
SFRP2	-->	APOD
SFRP2	-->	C3
SFRP2	-->	CCDC80
SFRP2	-->	COL14A1
SFRP2	-->	CXCL12
SFRP2	-->	FGF7
SFRP2	-->	GPC3
SFRP2	-->	GPNMB
SFRP2	-->	IGF1
SFRP2	-->	IGFBP4
SFRP2	-->	MEG3
SFRP2	-->	SFRP4
SFRP4	-->	APOD
SFRP4	-->	CD55
SFRP4	-->	CES1
SFRP4	-->	CLTB
SFRP4	-->	ELN

SFTPA1	-->	AGR2
SFTPA1	-->	AGR3
SFTPA1	-->	AK1
SFTPA1	-->	ASPH
SFTPA1	-->	ATP1A1
SFTPA1	-->	CTSE
SFTPA1	-->	CTSH
SFTPA1	-->	DMBT1
SFTPA1	-->	LPCAT1
SFTPA1	-->	MBIP
SFTPA1	-->	NEAT1
SFTPA1	-->	PARM1
SFTPA1	-->	RARRES1
SFTPA1	-->	SCGB1A1
SFTPA1	-->	SCGB3A2
SFTPA1	-->	SDC4
SFTPA1	-->	SELM
SFTPA1	-->	SFTPC
SFTPA1	-->	SGMS2
SFTPA1	-->	SLC22A31
SFTPA1	-->	WFDC2
SFTPC	-->	FMO2
SFTPD	-->	ABCA3
SFTPD	-->	ADGRF5
SFTPD	-->	ALPL
SFTPD	-->	APLP2
SFTPD	-->	CADM1
SFTPD	-->	CTSH
SFTPD	-->	LMO3
SFTPD	-->	LRRK2
SFTPD	-->	PEBP4
SFTPD	-->	SERPINA1
SFTPD	-->	SFTPA1
SFTPD	-->	SFTPC
SFTPD	-->	SLC22A31
SFTPD	-->	SPTSSA
SFTPD	-->	SUSD2
SFTPD	-->	TACC2
SFTPD	-->	WIF1
SGK1	-->	ATF3
SGK1	-->	CXCL2
SGK1	-->	FOSB

SGK1	-->	NEAT1
SGK1	-->	SLC16A10
SGK1	-->	TRIB1
SGMS2	-->	CD55
SGMS2	-->	CTNNA1
SGMS2	-->	ODC1
SH3BGRL3	-->	ACTB
SH3BGRL3	-->	AP2S1
SH3BGRL3	-->	ATP6V0B
SH3BGRL3	-->	ATP6V1F
SH3BGRL3	-->	BRI3
SH3BGRL3	-->	CALM3
SH3BGRL3	-->	CD68
SH3BGRL3	-->	CES1
SH3BGRL3	-->	CST6
SH3BGRL3	-->	CSTB
SH3BGRL3	-->	CTSB
SH3BGRL3	-->	EMP3
SH3BGRL3	-->	FBP1
SH3BGRL3	-->	GPX1
SH3BGRL3	-->	GSTO1
SH3BGRL3	-->	H2AFY
SH3BGRL3	-->	LAPTM5
SH3BGRL3	-->	LGALS1
SH3BGRL3	-->	LIMS1
SH3BGRL3	-->	NEAT1
SH3BGRL3	-->	RPS4Y1
SH3BGRL3	-->	S100A11
SH3BGRL3	-->	SCPEP1
SH3BGRL3	-->	SEPP1
SH3BGRL3	-->	TIMP1
SH3BGRL3	-->	TSC22D1
SLC16A10	-->	IGSF6
SLC16A10	-->	LIMS1
SLC16A10	-->	TFRC
SLC22A31	-->	ADGRF5
SLC22A31	-->	AGR2
SLC22A31	-->	AGR3
SLC22A31	-->	CTSE
SLC22A31	-->	LPCAT1
SLC22A31	-->	PEG10
SLC22A31	-->	PRSS8

SLC6A14	-->	ALPL
SLC6A14	-->	ARFGEF3
SLC6A14	-->	BCAM
SLC6A14	-->	C12orf49
SLC6A14	-->	CCL20
SLC6A14	-->	CSTB
SLC6A14	-->	EVA1A
SLC6A14	-->	FGFBP1
SLC6A14	-->	FGGY
SLC6A14	-->	FOSB
SLC6A14	-->	ITGA2
SLC6A14	-->	MPZL2
SLC6A14	-->	MSMO1
SLC6A14	-->	MYO1B
SLC6A14	-->	SDC4
SLC6A14	-->	SDR16C5
SLC6A14	-->	SEPP1
SLC6A14	-->	SGMS2
SLC6A14	-->	TIMP1
SLC6A14	-->	TMC5
SMIM22	-->	ARFGEF3
SMIM22	-->	CDH1
SMIM22	-->	CLDN3
SMIM22	-->	CRACR2B
SMIM22	-->	MLPH
SMIM22	-->	RARRES3
SMIM22	-->	RP11.532F12.5
SOX9	-->	CLDN1
SOX9	-->	FBXO32
SOX9	-->	FLRT3
SOX9	-->	LDLR
SOX9	-->	MFSD2A
SOX9	-->	TSC22D1
SPARC	-->	APOC1
SPARC	-->	APOE
SPARC	-->	CALM2
SPARC	-->	CALM3
SPARC	-->	CCL18
SPARC	-->	CD63
SPARC	-->	CFD
SPARC	-->	CP
SPARC	-->	CTSD

SPARC	-->	CTSK
SPARC	-->	CXCL2
SPARC	-->	DUSP23
SPARC	-->	ETS2
SPARC	-->	HEXB
SPARC	-->	HMGB3
SPARC	-->	HSPA1A
SPARC	-->	IFI6
SPARC	-->	LCN2
SPARC	-->	LGALS1
SPARC	-->	LPL
SPARC	-->	PMP22
SPARC	-->	RARRES1
SPARC	-->	SDC2
SPARC	-->	SDR16C5
SPARC	-->	TMEM243
SPARC	-->	TSPAN8
SPARCL1	-->	A2M
SPARCL1	-->	AP2S1
SPARCL1	-->	ASAH1
SPARCL1	-->	C10orf10
SPARCL1	-->	C7
SPARCL1	-->	CALD1
SPARCL1	-->	CAV2
SPARCL1	-->	CDH11
SPARCL1	-->	CFH
SPARCL1	-->	CXCL12
SPARCL1	-->	DUSP23
SPARCL1	-->	GPC3
SPARCL1	-->	GPNMB
SPARCL1	-->	GPX1
SPARCL1	-->	LGALS3
SPARCL1	-->	MGP
SPARCL1	-->	MT.ND1
SPARCL1	-->	PLAC9
SPARCL1	-->	PLS3
SPARCL1	-->	PMP22
SPARCL1	-->	PRELP
SPARCL1	-->	PTGDS
SPARCL1	-->	S100A11
SPARCL1	-->	TIMP3
SPARCL1	-->	VCAN

SPARCL1	-->	VIM
SPARCL1	-->	WFDC2
SPP1	-->	ANKRD29
SPP1	-->	BPIFB1
SPP1	-->	C15orf48
SPP1	-->	CA2
SPP1	-->	CALM3
SPP1	-->	CD63
SPP1	-->	CFD
SPP1	-->	CPM
SPP1	-->	MGLL
SPP1	-->	NEAT1
SPP1	-->	SCGB3A1
SPP1	-->	SERPINA1
SPP1	-->	SLC16A10
SPP1	-->	TREM2
SPP1	-->	VCAN
STARD10	-->	MT.ND1
SUSD2	-->	AGR3
SUSD2	-->	BCAM
SUSD2	-->	CLDN3
SUSD2	-->	CTSE
SUSD2	-->	FLRT3
SUSD2	-->	KIAA1324
SUSD2	-->	MAGI3
SUSD2	-->	RAB17
SUSD2	-->	SEMA3B
SYT8	-->	ALDH3A1
SYT8	-->	CAPN8
SYT8	-->	CD24
SYT8	-->	CYP4B1
SYT8	-->	EGFR
SYT8	-->	FLRT3
SYT8	-->	HES1
SYT8	-->	HOOK2
SYT8	-->	IGFBP2
SYT8	-->	ITGA2
SYT8	-->	LAMB3
SYT8	-->	S100A2
SYT8	-->	SCPEP1
SYT8	-->	SOX9
SYT8	-->	SYTL1

SYTL1	-->	ARFGEF3
SYTL1	-->	CRNDE
SYTL1	-->	HOOK2
SYTL1	-->	KRT17
TACC2	-->	AK1
TACC2	-->	ATP11A
TACC2	-->	CRNDE
TACC2	-->	LDLR
TACC2	-->	MYO1B
TACC2	-->	RAB17
TACC2	-->	RP11.532F12.5
TAGLN	-->	MYL9
TCF21	-->	A2M
TCF21	-->	CDH11
TCF21	-->	CES1
TCF21	-->	CXCL12
TCF21	-->	DKK3
TCF21	-->	FBLN2
TCF21	-->	GPC3
TCF21	-->	INMT
TCF21	-->	LTBP1
TCF21	-->	LTBP2
TCF21	-->	LY96
TCF21	-->	MOXD1
TCF21	-->	NNMT
TCF21	-->	PLAC9
TCF21	-->	SFRP4
TCF21	-->	TIMP3
TFF3	-->	ALDH3A1
TFF3	-->	BPIFB1
TFF3	-->	CAV1
TFF3	-->	CXCL1
TFF3	-->	KIAA1324
TFF3	-->	TMC5
TFF3	-->	VSIG2
TGFBI	-->	ACTB
TGFBI	-->	C3
TGFBI	-->	CFD
TGFBI	-->	CTSZ
TGFBI	-->	CYP27A1
TGFBI	-->	GSN
TGFBI	-->	TREM2

THY1	-->	ADH1B
THY1	-->	AK1
THY1	-->	AP2S1
THY1	-->	C10orf10
THY1	-->	CFD
THY1	-->	CLIC3
THY1	-->	COL14A1
THY1	-->	COL5A2
THY1	-->	DSTN
THY1	-->	FBLN2
THY1	-->	FSTL1
THY1	-->	HTRA3
THY1	-->	IGF1
THY1	-->	IGFBP4
THY1	-->	ISLR
THY1	-->	MFAP4
THY1	-->	MOXD1
THY1	-->	OLFML3
THY1	-->	PDLIM3
THY1	-->	PLAC9
THY1	-->	SFRP2
THY1	-->	SFRP4
THY1	-->	SH3BGRL3
THY1	-->	SPARCL1
THY1	-->	TAGLN
TIMP1	-->	APOC1
TIMP1	-->	BRI3
TIMP1	-->	C12orf49
TIMP1	-->	CA2
TIMP1	-->	CCL18
TIMP1	-->	CD63
TIMP1	-->	CPM
TIMP1	-->	CTSE
TIMP1	-->	CTSL
TIMP1	-->	CXCL2
TIMP1	-->	EMP3
TIMP1	-->	GCHFR
TIMP1	-->	HLA.DMB
TIMP1	-->	HSPA1A
TIMP1	-->	IER3
TIMP1	-->	IGFBP2
TIMP1	-->	LGALS1

TIMP1	-->	LPL
TIMP1	-->	MGLL
TIMP1	-->	RAB11FIP1
TIMP1	-->	SCD
TIMP1	-->	SDC4
TIMP1	-->	VCAN
TIMP1	-->	VIM
TIMP3	-->	CAV1
TIMP3	-->	CD63
TIMP3	-->	CTGF
TIMP3	-->	GSN
TIMP3	-->	MGLL
TIMP3	-->	MOXD1
TIMP3	-->	SDC2
TIMP3	-->	TAGLN
TMC5	-->	ARFGEF3
TMC5	-->	C3
TMC5	-->	ERBB3
TMC5	-->	HOOK2
TMC5	-->	LDLR
TMC5	-->	MLPH
TMC5	-->	NCOA7
TMC5	-->	RAB11FIP1
TMC5	-->	TACC2
TMEM243	-->	C4BPA
TMEM243	-->	HHIP
TMEM243	-->	LAMP3
TMEM243	-->	ODC1
TMEM243	-->	PLA2G1B
TMEM243	-->	ZDHHC3
TMEM45A	-->	APOD
TMEM45A	-->	MDK
TMEM45A	-->	SELM
TNNC1	-->	AGER
TNNC1	-->	ANKRD29
TNNC1	-->	ANOS1
TNNC1	-->	ANXA3
TNNC1	-->	CADM1
TNNC1	-->	CALM2
TNNC1	-->	CAV1
TNNC1	-->	CAV2
TNNC1	-->	CKB

TNNC1	-->	CLIC5
TNNC1	-->	CST6
TNNC1	-->	CTSE
TNNC1	-->	EFEMP1
TNNC1	-->	FMO2
TNNC1	-->	GKN2
TNNC1	-->	KRT15
TNNC1	-->	LAMA3
TNNC1	-->	MYL9
TNNC1	-->	PEBP4
TNNC1	-->	PEG10
TNNC1	-->	PLA2G1B
TNNC1	-->	PLLP
TNNC1	-->	PRSS8
TNNC1	-->	RAB25
TNNC1	-->	RARRES3
TNNC1	-->	SCEL
TNNC1	-->	SFTPD
TNNC1	-->	SLC22A31
TNNC1	-->	SPARCL1
TNNC1	-->	SUSD2
TNNC1	-->	TSPAN8
TPM2	-->	ELN
TPM2	-->	LGALS1
TPM2	-->	MDK
TPM2	-->	MYL9
TPM2	-->	TAGLN
TPM2	-->	TIMP1
TREM2	-->	A2M
TREM2	-->	AK1
TREM2	-->	APOE
TREM2	-->	CALM3
TREM2	-->	CAPG
TREM2	-->	CD9
TREM2	-->	CTSH
TREM2	-->	CTSZ
TREM2	-->	GSN
TREM2	-->	HLA.DMA
TREM2	-->	LILRB4
TREM2	-->	LINC01272
TREM2	-->	LIPA
TREM2	-->	MDK

TREM2	-->	PLA2G7
TREM2	-->	PPT1
TREM2	-->	STARD10
TREM2	-->	TRIB1
TRIB1	-->	ATF3
TRIB1	-->	CXCL1
TRIB1	-->	FOSB
TRIB1	-->	GEM
TRIB1	-->	NCOA7
TSC22D1	-->	CEBPD
TSC22D1	-->	RNF145
TSC22D1	-->	SCPEP1
TSPAN1	-->	CLDN3
TSPAN1	-->	CXADR
TSPAN1	-->	CYBA
TSPAN1	-->	ERBB3
TSPAN1	-->	FAM105A
TSPAN1	-->	GSN
TSPAN1	-->	HPCAL1
TSPAN1	-->	KRT15
TSPAN1	-->	MDK
TSPAN1	-->	OCIAD2
TSPAN1	-->	PRSS8
TSPAN1	-->	S100A2
TSPAN1	-->	SCNN1A
TSPAN1	-->	SCNN1B
TSPAN1	-->	SMIM22
TSPAN1	-->	SYT8
TSPAN1	-->	SYTL1
TSPAN1	-->	TFF3
TSPAN1	-->	VSIG2
TSPAN8	-->	AGR2
TSPAN8	-->	CXCL1
TSPAN8	-->	CXCL14
TSPAN8	-->	EMP3
TSPAN8	-->	FMO2
TSPAN8	-->	IGFBP4
TSPAN8	-->	KIAA1324
TSPAN8	-->	PLD3
TSPAN8	-->	RARRES1
TSPAN8	-->	SCGB1A1
TSPAN8	-->	SCGB3A2

TSPAN8 --> SCNN1B
TSPAN8 --> SDC4
TSPAN8 --> SFRP4
TSPAN8 --> TMEM45A
TYMP --> IFI6
TYROBP --> ACP5
TYROBP --> AGR2
TYROBP --> AP2S1
TYROBP --> APOC1
TYROBP --> ATP6V0B
TYROBP --> CCL18
TYROBP --> CD68
TYROBP --> CFH
TYROBP --> CHI3L2
TYROBP --> CLIC3
TYROBP --> CLIC5
TYROBP --> COL1A1
TYROBP --> COL4A3
TYROBP --> CYBA
TYROBP --> DAPK2
TYROBP --> DSTN
TYROBP --> EFEMP1
TYROBP --> EMILIN1
TYROBP --> EMP3
TYROBP --> FCER1G
TYROBP --> GPX1
TYROBP --> H2AFY
TYROBP --> KRT15
TYROBP --> LAPTM5
TYROBP --> LINC01272
TYROBP --> LPL
TYROBP --> LST1
TYROBP --> LYZ
TYROBP --> MGP
TYROBP --> MS4A7
TYROBP --> MSR1
TYROBP --> MYRF
TYROBP --> PLS3
TYROBP --> PSAP
TYROBP --> RNF130
TYROBP --> SFRP2
TYROBP --> SH3BGRL3

TYROBP	-->	SPARCL1
TYROBP	-->	TSPAN8
TYROBP	-->	TYMP
TYROBP	-->	WFDC2
VCAN	-->	CD9
VCAN	-->	CXCL14
VCAN	-->	DHRS3
VCAN	-->	FAM213A
VCAN	-->	FHL1
VCAN	-->	GLUL
VCAN	-->	GRN
VCAN	-->	RNF145
VIM	-->	ACTB
VIM	-->	AGR2
VIM	-->	BLVRB
VIM	-->	COX6C
VIM	-->	CTSH
VIM	-->	CTSZ
VIM	-->	GLUL
VIM	-->	KRT15
VIM	-->	LGALS3
VIM	-->	LPCAT1
VIM	-->	MPZL2
VIM	-->	PLA2G7
VIM	-->	POLR2L
VIM	-->	SDC2
VIM	-->	SFTPD
VIM	-->	TGFBI
VIM	-->	TRIB1
VIM	-->	WFDC2
VSIG2	-->	ALDH3A1
VSIG2	-->	CXCL1
VSIG2	-->	RAB17
VSIG2	-->	RP11.532F12.5
VSIG2	-->	SPINT1
VSIG2	-->	STARD10
VSIG4	-->	ACP5
VSIG4	-->	C15orf48
VSIG4	-->	CD14
VSIG4	-->	CD68
VSIG4	-->	CYBB
VSIG4	-->	FBP1

VSIG4	-->	GSTA1
VSIG4	-->	HEXB
VSIG4	-->	HLA.DMA
VSIG4	-->	HLA.DRB1
VSIG4	-->	LAPTM5
VSIG4	-->	LST1
VSIG4	-->	LYZ
VSIG4	-->	MARCO
VSIG4	-->	PLA2G7
WFDC2	-->	AGR3
WFDC2	-->	ASAH1
WFDC2	-->	BCAM
WFDC2	-->	CD24
WFDC2	-->	CD55
WFDC2	-->	CD9
WFDC2	-->	CLDN3
WFDC2	-->	CLIC3
WFDC2	-->	CRNDE
WFDC2	-->	CSTB
WFDC2	-->	CTSE
WFDC2	-->	DAB2
WFDC2	-->	MDK
WFDC2	-->	MLPH
WFDC2	-->	MPZL2
WFDC2	-->	MYL12B
WFDC2	-->	OCIAD2
WFDC2	-->	RAB25
WFDC2	-->	RP11.532F12.5
WFDC2	-->	S100A11
WFDC2	-->	SCGB1A1
WFDC2	-->	SCGB3A1
WFDC2	-->	SDC4
WFDC2	-->	SMIM22
WFDC2	-->	SPINT1
WFDC2	-->	STARD10
WFDC2	-->	SUSD2
WFDC2	-->	TFF3
WFDC2	-->	TMEM45A
WFDC2	-->	TSPAN1
WFDC2	-->	VCAN
WIF1	-->	CADM1
WIF1	-->	CAPN8

WIF1	-->	CPM
WIF1	-->	EVA1A
WIF1	-->	LMO3
ZDHHC3	-->	HPCAL1

TABLE S10 Gene Ontology Terms associated with macrophage populations

CONTROL FABP4 macrophages (60 genes, >3-fold upregulation compared to all other cells)

GO biological process complete	Genes in processs	Genes in list	Fold Enrichment	FDR
lipid localization (GO:0010876)	317	8	9.14	1.53E-02
fatty acid metabolic process (GO:0006631)	312	8	9.28	2.04E-02
synapse pruning (GO:0098883)	10	3	> 100	2.20E-02
lipid transport (GO:0006869)	295	8	9.82	2.72E-02
cellular lipid metabolic process (GO:0044255)	948	12	4.58	3.06E-02
regulation of cholesterol storage (GO:0010885)	15	3	72.4	4.14E-02
lipid metabolic process (GO:0006629)	1195	13	3.94	4.34E-02

Lipid Localization (GO:0010876)

PPARG	Peroxisome proliferator-activated receptor gamma;PPARG;ortholog
MSR1	Macrophage scavenger receptor types I and II;MSR1;ortholog
APOC2	Apolipoprotein C-II;APOC2;ortholog
FABP3	Fatty acid-binding protein, heart;FABP3;ortholog
FABP4	Fatty acid-binding protein, adipocyte;FABP4;ortholog
ATP10A	Probable phospholipid-transporting ATPase VA;ATP10A;ortholog
RBP4	Retinol-binding protein 4;RBP4;ortholog

CONTROL SPP1 macrophages (16 genes >3-fold upregulated compared to all other cells)

GO biological process complete	Genes in processs	Genes in list	Fold Enrichment	FDR
regulation of plasma lipoprotein particle levels (GO:0097006)	73	4	67.67	6.05E-03
inflammatory response (GO:0006954)	485	6	15.28	1.24E-02
response to stress (GO:0006950)	3484	11	3.9	3.24E-02
positive regulation of blood vessel diameter (GO:0097755)	57	3	65	3.30E-02
extracellular structure organization (GO:0043062)	381	5	16.21	3.33E-02
positive regulation of lipid transport (GO:0032370)	61	3	60.74	3.51E-02
ion homeostasis (GO:0050801)	779	6	9.51	3.67E-02
protein-lipid complex subunit organization (GO:0071825)	49	3	75.62	3.75E-02

regulation of Cdc42 protein signal transduction (GO:0032489)	7	2	> 100	3.88E-02
plasma lipoprotein particle organization (GO:0071827)	45	3	82.34	3.92E-02

Regulation of plasma lipoprotein particle levels (GO:0097006)

APOE	Apolipoprotein E;APOE;ortholog
HMOX1	Heme oxygenase 1;HMOX1;ortholog
PLA2G7	Platelet-activating factor acetylhydrolase;PLA2G7;ortholog
ABCA1	ATP-binding cassette sub-family A member 1;ABCA1;ortholog

Response to stress (GO:0006950)

SIGLEC10	Sialic acid-binding Ig-like lectin 10;SIGLEC10;ortholog
KCNMA1	Calcium-activated potassium channel subunit alpha-1;KCNMA1;ortholog
APOE	Apolipoprotein E;APOE;ortholog
CCL13	C-C motif chemokine 13;CCL13;ortholog
CCL18	C-C motif chemokine 18;CCL18;ortholog
FPR3	N-formyl peptide receptor 3;FPR3;ortholog
HMOX1	Heme oxygenase 1;HMOX1;ortholog
TMIGD3	Transmembrane domain-containing protein TMIGD3;TMIGD3;ortholog
SPP1	Osteopontin;SPP1;ortholog
ABCA1	ATP-binding cassette sub-family A member 1;ABCA1;ortholog
MERTK	Tyrosine-protein kinase Mer;MERTK;ortholog

CONTROL FCN1 macrophages (62 genes >3-fold upregulated compared to all other cells)

GO biological process complete	Genes in processs	Genes in list	Fold Enrichment	FDR
immune response (GO:0006955)	1827	37	7.09	3.84E-20
immune system process (GO:0002376)	2740	41	5.24	5.65E-19
defense response (GO:0006952)	1320	32	8.48	6.97E-19
myeloid leukocyte activation (GO:0002274)	573	21	12.82	1.53E-14
neutrophil activation involved in immune response (GO:000228	487	20	14.37	1.61E-14
neutrophil activation (GO:0042119)	496	20	14.11	1.62E-14
granulocyte activation (GO:0036230)	501	20	13.97	1.71E-14
inflammatory response (GO:0006954)	485	20	14.43	1.86E-14

myeloid cell activation involved in immune response (GO:00022	518	20	13.51	2.32E-14
regulated exocytosis (GO:0045055)	694	22	11.09	2.39E-14
myeloid leukocyte mediated immunity (GO:0002444)	515	20	13.59	2.54E-14
leukocyte activation involved in immune response (GO:000236	614	21	11.97	2.95E-14
cell activation involved in immune response (GO:0002263)	618	21	11.89	3.09E-14
cell activation (GO:0001775)	1048	25	8.35	3.86E-14
neutrophil degranulation (GO:0043312)	483	19	13.77	8.63E-14
response to stress (GO:0006950)	3484	39	3.92	9.13E-14
secretion (GO:0046903)	1103	25	7.93	1.03E-13
neutrophil mediated immunity (GO:0002446)	494	19	13.46	1.08E-13
secretion by cell (GO:0032940)	989	24	8.49	1.09E-13
exocytosis (GO:0006887)	782	22	9.84	1.35E-13
leukocyte degranulation (GO:0043299)	505	19	13.17	1.45E-13
leukocyte activation (GO:0045321)	902	23	8.92	1.66E-13
immune effector process (GO:0002252)	1072	24	7.83	5.02E-13
regulation of response to external stimulus (GO:0032101)	761	20	9.2	1.25E-11
leukocyte mediated immunity (GO:0002443)	760	20	9.21	1.27E-11
regulation of immune response (GO:0050776)	1123	23	7.17	1.39E-11
regulation of immune system process (GO:0002682)	1629	26	5.59	4.69E-11
positive regulation of cytokine production (GO:0001819)	440	16	12.72	6.36E-11
positive regulation of immune system process (GO:0002684)	1130	22	6.81	1.49E-10
regulation of response to stress (GO:0080134)	1456	24	5.77	2.76E-10
regulation of cytokine production (GO:0001817)	685	18	9.2	2.81E-10
regulation of response to stimulus (GO:0048583)	4388	38	3.03	7.60E-10
regulation of defense response (GO:0031347)	744	18	8.47	9.90E-10
response to external stimulus (GO:0009605)	2076	27	4.55	1.26E-09
response to stimulus (GO:0050896)	8349	50	2.1	3.44E-09
regulation of cytokine secretion (GO:0050707)	195	11	19.74	5.95E-09
response to bacterium (GO:0009617)	681	16	8.22	2.89E-08
positive regulation of response to stimulus (GO:0048584)	2399	27	3.94	3.18E-08
response to other organism (GO:0051707)	957	18	6.58	4.88E-08
response to external biotic stimulus (GO:0043207)	959	18	6.57	4.91E-08
positive regulation of immune response (GO:0050778)	843	17	7.06	6.00E-08
response to biotic stimulus (GO:0009607)	985	18	6.39	7.00E-08

regulation of inflammatory response (GO:0050727)	329	12	12.76	7.05E-08
positive regulation of cytokine secretion (GO:0050715)	132	9	23.86	8.32E-08
chemotaxis (GO:0006935)	539	14	9.09	1.27E-07
taxis (GO:0042330)	542	14	9.04	1.33E-07
cell surface receptor signaling pathway (GO:0007166)	2441	26	3.73	2.31E-07
positive regulation of response to external stimulus (GO:00321(	304	11	12.66	4.15E-07
regulation of proteolysis (GO:0030162)	720	15	7.29	4.81E-07
innate immune response (GO:0045087)	752	15	6.98	8.41E-07

Immune response (GO:0006955)

THBS1	Thrombospondin-1;THBS1;ortholog
CD93	Complement component C1q receptor;CD93;ortholog
CDC42EP2	Cdc42 effector protein 2;CDC42EP2;ortholog
FGL2	Fibroleukin;FGL2;ortholog
APOBEC3A	DNA dC-dU-editing enzyme APOBEC-3A;APOBEC3A;ortholog
LST1	Leukocyte-specific transcript 1 protein;LST1;ortholog
TLR2	Toll-like receptor 2;TLR2;ortholog
IL10	Interleukin-10;IL10;ortholog
C5AR1	C5a anaphylatoxin chemotactic receptor 1;C5AR1;ortholog
CD300E	CMRF35-like molecule 2;CD300E;ortholog
FCN1	Ficolin-1;FCN1;ortholog
LILRA1	Leukocyte immunoglobulin-like receptor subfamily A member 1;LILRA1;ortholog
S100A12	Protein S100-A12;S100A12;ortholog
S100A8	Protein S100-A8;S100A8;ortholog
LILRA2	Leukocyte immunoglobulin-like receptor subfamily A member 2;LILRA2;ortholog
LILRA5	Leukocyte immunoglobulin-like receptor subfamily A member 5;LILRA5;ortholog
HPSE	Heparanase;HPSE;ortholog
CD14	Monocyte differentiation antigen CD14;CD14;ortholog
SERPINB9	Serpin B9;SERPINB9;ortholog
NFAM1	NFAT activation molecule 1;NFAM1;ortholog
RNF19B	E3 ubiquitin-protein ligase RNF19B;RNF19B;ortholog
AQP9	Aquaporin-9;AQP9;ortholog
NLRP3	NACHT, LRR and PYD domains-containing protein 3;NLRP3;ortholog
CFP	Properdin;CFP;ortholog

NAIP	Baculoviral IAP repeat-containing protein 1;NAIP;ortholog
S100A9	Protein S100-A9;S100A9;ortholog
CDA	Cytidine deaminase;CDA;ortholog
TNFSF13B	Tumor necrosis factor ligand superfamily member 13B;TNFSF13B;ortholog
FPR2	N-formyl peptide receptor 2;FPR2;ortholog
FPR1	fMet-Leu-Phe receptor;FPR1;ortholog
CLEC4E	C-type lectin domain family 4 member E;CLEC4E;ortholog
PLAUR	Urokinase plasminogen activator surface receptor;PLAUR;ortholog
TNFAIP6	Tumor necrosis factor-inducible gene 6 protein;TNFAIP6;ortholog
IL1R2	Interleukin-1 receptor type 2;IL1R2;ortholog
RNASE2	Non-secretory ribonuclease;RNASE2;ortholog
IL1B	Interleukin-1 beta;IL1B;ortholog
LILRB2	Leukocyte immunoglobulin-like receptor subfamily B member 2;LILRB2;ortholog

IPF COMPARED TO CONTROL SPP1 macrophages (28 genes >3-fold upregulated compared to all other cells)

GO biological process complete	Genes in processs	Genes in list	Fold Enrichment	FDR
extracellular structure organization (GO:0043062)	381	8	15.75	4.55E-04
extracellular matrix organization (GO:0030198)	335	7	15.67	1.98E-03
leukocyte migration (GO:0050900)	369	6	12.19	4.41E-02

Extracellular structure organization (GO:0043062)

ITGA6	Integrin alpha-6;ITGA6;ortholog
PLTP	Phospholipid transfer protein;PLTP;ortholog
FN1	Fibronectin;FN1;ortholog
MMP7	Matrilysin;MMP7;ortholog
SPARC	SPARC;SPARC;ortholog
ITGB5	Integrin beta-5;ITGB5;ortholog
CTSK	Cathepsin K;CTSK;ortholog
SPP1	Osteopontin;SPP1;ortholog