

Supplementary Table2: 260 lncRNAs and 246 IRGs.

lncRNA	mRNA	Corr	P.value
HCP5	B2M	0.771155	0
PSMB8-AS1	B2M	0.770173	0
USP30-AS1	B2M	0.71345	0
CCR5AS	CD4	0.707196	0
LINC01094	CD4	0.790038	0
AC006033.2	CD4	0.716034	0
AC011899.2	CD4	0.797116	0
LINC01150	CD4	0.715265	0
AC090559.1	CD4	0.807458	0
PCED1B-AS1	CD4	0.738393	0
AC138207.5	CD4	0.710994	0
AL590764.1	CD4	0.716614	0
LINC01871	CD8A	0.752619	0
LINC01934	CD8A	0.753538	0
LINC02084	CD8A	0.780218	0
TRG-AS1	CD8A	0.760631	0
LINC02446	CD8A	0.800279	0
PCED1B-AS1	CD8A	0.706226	0
LINC00426	CD8A	0.791932	0
AC004585.1	CD8A	0.725516	0
AC243960.1	CD8A	0.757716	0
LINC01094	CTSS	0.751574	0
PCED1B-AS1	CTSS	0.70287	0
CCR5AS	FCER1G	0.813627	0
LINC01094	FCER1G	0.77134	0
PCED1B-AS1	FCER1G	0.873376	0
AC138207.5	FCER1G	0.726389	0
AL590764.1	FCER1G	0.738545	0
HCP5	HLA-A	0.846839	0
PSMB8-AS1	HLA-A	0.82818	0
HCP5	HLA-B	0.834953	0
PSMB8-AS1	HLA-B	0.838423	0
HCP5	HLA-C	0.782807	0
PSMB8-AS1	HLA-C	0.782678	0
HLA-DQB1-AS1	HLA-DMA	0.703982	0
HLA-DQB1-AS1	HLA-DPA1	0.70324	0
PCED1B-AS1	HLA-DPA1	0.721092	0
HLA-DQB1-AS1	HLA-DPB1	0.722646	0
PCED1B-AS1	HLA-DPB1	0.783437	0
HLA-DQB1-AS1	HLA-DQA1	0.776997	0
PCED1B-AS1	HLA-DQA1	0.758549	0
HLA-DQB1-AS1	HLA-DQB1	0.8819	0

HLA-DQB1-AS1	HLA-DRB1	0.734917	0
HCP5	HLA-E	0.794382	0
PSMB8-AS1	HLA-E	0.795617	0
HCP5	HLA-F	0.827345	0
PSMB8-AS1	HLA-F	0.824897	0
USP30-AS1	HLA-F	0.713617	0
AC011700.1	IFNA4	0.922975	0
LINC01994	IFNA4	0.800034	0
AC073311.1	IFNA4	0.799373	0
AC002101.1	IFNA4	0.88965	0
LINC00391	IFNA4	0.808753	0
NAGPA-AS1	IFNA4	0.746509	0
AC011700.1	IFNA7	0.80028	0
LINC01994	IFNA7	0.705935	0
AC002101.1	IFNA7	0.777525	0
AL139254.1	IFNA10	0.709612	0
AC013269.2	IFNA10	0.70904	0
AC022145.1	IFNA10	0.760909	0
AC011700.1	IFNA14	0.892535	0
LINC01994	IFNA14	0.772163	0
AC073311.1	IFNA14	0.770111	0
AC002101.1	IFNA14	0.860826	0
LINC00391	IFNA14	0.771197	0
NAGPA-AS1	IFNA14	0.737134	0
AC073311.1	IFNA16	0.789599	0
AC011700.1	IFNA17	0.920301	0
LINC01994	IFNA17	0.793746	0
AC073311.1	IFNA17	0.793243	0
AC002101.1	IFNA17	0.897648	0
LINC00391	IFNA17	0.794497	0
NAGPA-AS1	IFNA17	0.749045	0
LINC01934	IFNG	0.750825	0
LINC02446	IFNG	0.775623	0
LINC00426	IFNG	0.722374	0
AC243829.4	IFNG	0.728986	0
HCP5	PSMB8	0.762126	0
PSMB8-AS1	PSMB8	0.868873	0
LINC01378	SLC10A2	0.897134	0
AC064807.3	SLC10A2	0.905468	0
LINC00560	SLC10A2	0.731389	0
AC135068.7	SLC10A2	0.912202	0
AL096828.1	SLC10A2	0.713127	0
HCP5	TAP1	0.841432	0
PSMB8-AS1	TAP1	0.830819	0

USP30-AS1	TAP1	0.741929	0
PSMB8-AS1	TAP2	0.753922	0
LINC01614	THBS1	0.781548	0
LINC00702	THBS1	0.766358	0
ACTA2-AS1	THBS1	0.737809	0
AC037198.1	THBS1	0.747191	0
AC005288.1	PSME3	0.702343	0
OIP5-AS1	UBR1	0.709699	0
HCP5	CXCL10	0.715033	0
PSMB8-AS1	CXCL10	0.723285	0
USP30-AS1	CXCL10	0.741107	0
LINC01871	CXCL9	0.71989	0
LINC01934	CXCL9	0.711132	0
LINC02446	CXCL9	0.712123	0
PCED1B-AS1	CXCL9	0.713117	0
LINC00426	CXCL9	0.710418	0
AC004585.1	CXCL9	0.740644	0
AC243960.1	CXCL9	0.712586	0
PSMB8-AS1	CXCL11	0.709945	0
USP30-AS1	CXCL11	0.741847	0
LINC01614	CXCL12	0.708379	0
MSC-AS1	CXCL12	0.705461	0
AF067845.1	DEFA6	0.727584	0
LINC00556	DEFA6	0.704128	0
LINC00554	DEFA6	0.758507	0
LINC00905	DEFA6	0.850114	0
AC018685.2	DEFA5	0.710272	0
AC106706.1	DEFA5	0.724362	0
AF067845.1	DEFA5	0.776156	0
LINC00556	DEFA5	0.748095	0
LINC00554	DEFA5	0.800981	0
LINC00905	DEFA5	0.89919	0
AC145625.1	DCD	0.775918	0
FILNC1	DCD	0.787566	0
AP001970.1	DCD	0.717415	0
AC239727.1	DCD	0.717263	0
AC012349.1	PENK	0.763647	0
AC116366.1	LEAP2	0.700838	0
C15orf54	DEFB129	0.741999	0
AC091045.1	DEFB129	0.761015	0
FER1L6-AS1	DEFB104B	0.701068	0
AC061709.2	DEFB104B	0.788739	0
AC093725.2	DEFB132	0.760863	0
AC113423.2	DEFB132	0.741082	0

AC022039.1	DEFB132	0.741092	0
LINC02623	DEFB132	0.719169	0
AL157396.1	DEFB132	0.719943	0
LINC00523	DEFB132	0.715195	0
AL035250.2	DEFB132	0.734082	0
ANKRD34C-AS1	DEFB118	0.741986	0
LINC01614	COLEC12	0.76718	0
AC112721.1	COLEC12	0.718063	0
AC112721.2	COLEC12	0.723473	0
AC069360.1	COLEC12	0.713823	0
AC009093.1	COLEC12	0.706278	0
AC134312.5	COLEC12	0.740454	0
LINC01929	COLEC12	0.705793	0
AP005380.1	DEFB114	0.702019	0
AC011700.1	DEFB113	0.732728	0
AC108868.2	DEFB113	0.712935	0
AC002101.1	DEFB113	0.724042	0
AC055717.2	DEFB113	0.700948	0
AC093725.2	DEFB112	0.750524	0
AC113423.2	DEFB112	0.735999	0
AC022039.1	DEFB112	0.720082	0
AL157396.1	DEFB112	0.706739	0
LINC00523	DEFB112	0.70442	0
AL035250.2	DEFB112	0.728475	0
AC068672.3	DEFB110	0.756756	0
LINC00317	DEFB110	0.82882	0
TMSB15B-AS1	TMSB15B	0.719042	0
AC068672.3	DEFB133	0.707674	0
LINC00317	DEFB133	0.722954	0
AL035604.1	DEFB135	0.803449	0
LINC02563	TCHHL1	0.704029	0
LINC01094	TLR4	0.828795	0
AC145098.1	TLR4	0.723046	0
AC006033.2	TLR4	0.734021	0
AC011899.2	TLR4	0.809621	0
LINC01150	TLR4	0.700082	0
AC090559.1	TLR4	0.839966	0
AC110995.1	TLR4	0.762289	0
CCR5AS	TLR2	0.729734	0
LINC01094	TLR2	0.850836	0
AC006033.2	TLR2	0.722323	0
AC011899.2	TLR2	0.770952	0
AC090559.1	TLR2	0.778342	0
LINC01614	PLAU	0.804388	0

AL445490.1	MX1	0.715115	0
AP001610.2	MX1	0.720585	0
AL445490.1	DDX58	0.706633	0
AL117382.1	R3HDML	0.780879	0
LINC00905	FABP9	0.724843	0
LINC02261	BPIFA1	0.735641	0
CCR5AS	CYBB	0.784469	0
LINC01094	CYBB	0.868571	0
AC145098.1	CYBB	0.712057	0
AC006033.2	CYBB	0.767921	0
AC011899.2	CYBB	0.841888	0
LINC01150	CYBB	0.761375	0
AC090559.1	CYBB	0.841137	0
PCED1B-AS1	CYBB	0.789455	0
AC138207.5	CYBB	0.747471	0
AC110995.1	CYBB	0.747197	0
AL590764.1	CYBB	0.74324	0
AC007991.2	IDO1	0.786754	0
AC007991.4	IDO1	0.798138	0
USP30-AS1	IDO1	0.701928	0
AC002546.1	ADIPOQ	0.775398	0
USP30-AS1	IRF1	0.71181	0
CCR5AS	TLR7	0.767873	0
LINC01094	TLR7	0.868248	0
AC006033.2	TLR7	0.769298	0
AC011899.2	TLR7	0.835648	0
LINC01150	TLR7	0.786276	0
AC090559.1	TLR7	0.846366	0
PCED1B-AS1	TLR7	0.725935	0
LINC01146	TLR7	0.70933	0
AC138207.5	TLR7	0.75354	0
AF127936.1	TLR7	0.726011	0
AC110995.1	TLR7	0.780854	0
AL590764.1	TLR7	0.716309	0
AC018685.2	PGC	0.705932	0
LINC00905	PGC	0.794919	0
LINC01094	LYZ	0.734595	0
PCED1B-AS1	LYZ	0.702857	0
LINC01871	CCL5	0.837032	0
LINC02446	CCL5	0.726155	0
PCED1B-AS1	CCL5	0.790864	0
AC007728.2	CYLD	0.702097	0
CCR5AS	TLR8	0.712164	0
LINC01094	TLR8	0.793039	0

AC011899.2	TLR8	0.816326	0
AC090559.1	TLR8	0.790944	0
AL590764.1	TLR8	0.72696	0
DNM3OS	PDGFRA	0.749256	0
FAM198B-AS1	PDGFRA	0.755679	0
MSC-AS1	PDGFRA	0.719765	0
WNT5A-AS1	WNT5A	0.862512	0
LINC01094	TLR1	0.77896	0
AC011899.2	TLR1	0.708585	0
AC090559.1	TLR1	0.772214	0
LINC02770	FGA	0.779998	0
AC004009.1	FGA	0.711023	0
FAM167A-AS1	FGA	0.840385	0
LINC01517	FGA	0.764281	0
AL355376.1	FGA	0.832219	0
LINC00837	FGA	0.727486	0
PLUT	FGA	0.810485	0
FREM2-AS1	FGA	0.816528	0
AC103982.1	FGA	0.736097	0
AC008938.1	FGA	0.811202	0
LINC01595	FGA	0.837352	0
HNF4A-AS1	FGA	0.72025	0
CCR5AS	MSR1	0.735701	0
LINC01094	MSR1	0.891428	0
AC011899.2	MSR1	0.719189	0
AC090559.1	MSR1	0.709456	0
PCED1B-AS1	MSR1	0.720045	0
AC110995.1	MSR1	0.731888	0
AL590764.1	MSR1	0.707472	0
LINC01739	SEMG2	0.759863	0
AL162400.2	SEMG2	0.847495	0
AC007126.1	SEMG2	0.711625	0
TNFRSF10A-AS1	TNFRSF10A	0.860951	0
AC100861.1	TNFRSF10A	0.826775	0
LINC01094	CCL4	0.713174	0
PCED1B-AS1	CCL4	0.754121	0
AC005288.1	BECN1	0.790256	0
LINC01934	KLRK1	0.717883	0
TRG-AS1	KLRK1	0.744904	0
LINC00861	KLRK1	0.739537	0
LINC00426	KLRK1	0.727541	0
AL365330.1	MASP2	0.703366	0
AL109811.2	MASP2	0.762681	0
AL109811.1	MASP2	0.705898	0

LINC01772	MASP2	0.746497	0
HCG18	TRIM27	0.755096	0
LINC01614	IL7R	0.702162	0
LINC01934	CD40LG	0.714027	0
LINC02273	CD40LG	0.722456	0
TRG-AS1	CD40LG	0.738472	0
LINC00861	CD40LG	0.763765	0
LINC00426	CD40LG	0.753443	0
AC004585.1	CD40LG	0.778191	0
AC243960.1	CD40LG	0.76496	0
LINC00892	CD40LG	0.763788	0
CCR5AS	CD14	0.785085	0
LINC01094	CD14	0.830974	0
AC011899.2	CD14	0.795534	0
LINC01150	CD14	0.759104	0
AC090559.1	CD14	0.760792	0
PCED1B-AS1	CD14	0.785136	0
AC138207.5	CD14	0.752197	0
AC110995.1	CD14	0.704746	0
AL590764.1	CD14	0.728752	0
AC068631.1	HRG	0.81758	0
AL445490.1	IRF9	0.711566	0
AL135999.1	IRF9	0.722947	0
AL136295.2	IRF9	0.713251	0
LINC01094	HMOX1	0.758602	0
AC011899.2	HMOX1	0.719513	0
LINC01094	PIK3CG	0.779159	0
AC145098.1	PIK3CG	0.751618	0
AC006033.2	PIK3CG	0.732563	0
AC011899.2	PIK3CG	0.837381	0
AC090559.1	PIK3CG	0.846305	0
AL445490.1	RSAD2	0.711278	0
NRIR	RSAD2	0.73913	0
LINC01614	PDGFRB	0.725314	0
AC009093.1	PDGFRB	0.757152	0
LINC01871	FASLG	0.792071	0
LINC01934	FASLG	0.733209	0
LINC02084	FASLG	0.721951	0
TRG-AS1	FASLG	0.835147	0
LINC02446	FASLG	0.811978	0
PCED1B-AS1	FASLG	0.7016	0
LINC00426	FASLG	0.795159	0
AC243829.4	FASLG	0.724465	0
AC243960.1	FASLG	0.739614	0

AL445471.2	IL22	0.729653	0
LINC01350	IL22	0.74042	0
LINC01479	IL22	0.717795	0
AC011718.1	IL22	0.756184	0
AL133415.1	VIM	0.831605	0
LINC01614	VCAM1	0.77412	0
MSC-AS1	VCAM1	0.703323	0
AL662884.1	AGER	0.706672	0
AC099329.2	ACKR2	0.920304	0
LINC02273	CCR7	0.721331	0
LINC00861	CCR7	0.768194	0
AC243960.1	CCR7	0.740795	0
AC134312.5	ACKR4	0.734705	0
LINC01929	ACKR4	0.792093	0
AC023301.1	ACKR4	0.74318	0
LINC01614	CCL11	0.752673	0
CCR5AS	CCR5	0.77422	0
LINC01094	CCR5	0.801499	0
AC006033.2	CCR5	0.756601	0
TRG-AS1	CCR5	0.773279	0
AC011899.2	CCR5	0.791397	0
AC090559.1	CCR5	0.743457	0
PCED1B-AS1	CCR5	0.809879	0
LINC00426	CCR5	0.729904	0
AC015911.3	CCR5	0.718369	0
AC243960.1	CCR5	0.74946	0
AL590764.1	CCR5	0.781321	0
CCR5AS	CCR1	0.745855	0
LINC01094	CCR1	0.809197	0
AC011899.2	CCR1	0.736751	0
AC090559.1	CCR1	0.702279	0
AC110995.1	CCR1	0.717565	0
LINC01871	XCL2	0.799809	0
LINC01871	CXCR6	0.815409	0
LINC01934	CXCR6	0.779928	0
LINC02084	CXCR6	0.724403	0
TRG-AS1	CXCR6	0.796935	0
LINC02446	CXCR6	0.804746	0
PCED1B-AS1	CXCR6	0.760925	0
LINC00426	CXCR6	0.805748	0
LINC02195	CXCR6	0.711227	0
AC243829.4	CXCR6	0.748682	0
AC004585.1	CXCR6	0.771362	0
AC243960.1	CXCR6	0.776281	0

LINC00861	CCR4	0.737803	0
AC004585.1	CCR4	0.729631	0
AC243960.1	CCR4	0.737534	0
LINC01094	FGR	0.711825	0
AC011899.2	FGR	0.766485	0
AC090559.1	FGR	0.700302	0
PCED1B-AS1	FGR	0.715372	0
CCR5AS	CD86	0.828483	0
LINC01094	CD86	0.888696	0
AC006033.2	CD86	0.763647	0
AC011899.2	CD86	0.791979	0
LINC01150	CD86	0.737103	0
AC090559.1	CD86	0.758146	0
PCED1B-AS1	CD86	0.821824	0
LINC01146	CD86	0.718685	0
AC138207.5	CD86	0.733313	0
AC110995.1	CD86	0.727455	0
AL590764.1	CD86	0.774502	0
CCR5AS	HCK	0.777619	0
LINC01094	HCK	0.841485	0
AC006033.2	HCK	0.732927	0
AC011899.2	HCK	0.824724	0
LINC01150	HCK	0.728206	0
AC090559.1	HCK	0.792274	0
PCED1B-AS1	HCK	0.751599	0
AC110995.1	HCK	0.705872	0
AL590764.1	HCK	0.749285	0
CCR5AS	OLR1	0.737229	0
LINC01094	OLR1	0.803965	0
AC011899.2	OLR1	0.722439	0
PCED1B-AS1	OLR1	0.727408	0
CCR5AS	RNASE2	0.740131	0
LINC01094	RNASE2	0.726084	0
PCED1B-AS1	RNASE2	0.730334	0
AL365361.1	CD79A	0.745791	0
LINC00582	CD79A	0.741574	0
LINC02362	CD79A	0.780368	0
CCR5AS	BTK	0.817047	0
LINC01094	BTK	0.876847	0
AC145098.1	BTK	0.725919	0
AC006033.2	BTK	0.76552	0
TRG-AS1	BTK	0.708985	0
AC011899.2	BTK	0.859723	0
LINC01150	BTK	0.77074	0

AC090559.1	BTK	0.84163	0
PCED1B-AS1	BTK	0.810399	0
LINC01146	BTK	0.726957	0
LINC02285	BTK	0.721815	0
AC138207.5	BTK	0.741462	0
AC243960.1	BTK	0.703316	0
AC110995.1	BTK	0.731212	0
AL590764.1	BTK	0.803051	0
PCED1B-AS1	RAC2	0.782882	0
AC138956.2	NFAT5	0.703991	0
AC108010.1	NFAT5	0.731101	0
AC108449.2	NFAT5	0.70549	0
TIMM23B-AGAP6	NFAT5	0.702489	0
AC137932.3	NFAT5	0.710067	0
AL731577.2	NFATC3	0.707732	0
AC025259.3	FOS	0.784068	0
LINC01094	PIK3R5	0.777203	0
AC145098.1	PIK3R5	0.78582	0
AC006033.2	PIK3R5	0.728312	0
AC011899.2	PIK3R5	0.861459	0
LINC01150	PIK3R5	0.716233	0
AC090559.1	PIK3R5	0.84924	0
AC011899.2	INPP5D	0.704862	0
AC090559.1	INPP5D	0.740216	0
U62631.1	CD22	0.85189	0
LINC01094	LILRB3	0.706793	0
AC011899.2	LILRB3	0.725244	0
CCR5AS	FCGR2B	0.797531	0
LINC01094	FCGR2B	0.828467	0
AC011899.2	FCGR2B	0.762429	0
LINC01150	FCGR2B	0.714282	0
PCED1B-AS1	FCGR2B	0.821939	0
LINC02285	FCGR2B	0.703932	0
AC138207.5	FCGR2B	0.709569	0
AL590764.1	FCGR2B	0.755504	0
AC008760.2	C3	0.750748	0
AL133346.1	CCN1	0.703481	0
LINC00702	SEMA3D	0.701472	0
AL592424.1	SEMA6C	0.757322	0
LINC01094	TYMP	0.702011	0
PCED1B-AS1	TYMP	0.754203	0
LINC01094	C5AR1	0.733863	0
CCR5AS	CCRL2	0.766355	0
LINC01094	CCRL2	0.8107	0

AC011899.2	CCRL2	0.745366	0
AL590764.1	CCRL2	0.717338	0
AC011899.2	CMKLR1	0.703709	0
LINC01871	CXCR3	0.787277	0
LINC01934	CXCR3	0.717482	0
TRG-AS1	CXCR3	0.729085	0
LINC00861	CXCR3	0.701183	0
LINC02446	CXCR3	0.728192	0
PCED1B-AS1	CXCR3	0.808637	0
LINC00426	CXCR3	0.743278	0
AC004585.1	CXCR3	0.751436	0
AC243960.1	CXCR3	0.753502	0
AL590764.1	CXCR3	0.727711	0
LINC01614	EDNRA	0.753315	0
CCR5AS	FPR1	0.715162	0
LINC01094	FPR1	0.806129	0
AC011899.2	FPR1	0.7292	0
AC090559.1	FPR1	0.735179	0
AC245128.3	FPR2	0.737816	0
AC018685.2	AMBN	0.725405	0
AC106706.1	AMBN	0.71542	0
AF067845.1	AMBN	0.734096	0
LINC00554	AMBN	0.748721	0
LINC00905	AMBN	0.843956	0
AC092155.1	ANGPTL5	0.800405	0
AL355612.1	ANGPTL5	0.77167	0
AL353611.1	ANGPTL5	0.717783	0
AC022166.1	ANGPTL5	0.78305	0
LINC01267	BMP15	0.721517	0
AC020763.1	BMP15	0.707641	0
AL122058.1	BMP7	0.80782	0
AC008687.2	CGB7	0.728688	0
LINC02647	CGB8	0.751262	0
AC025437.1	CRH	0.724954	0
AC009446.1	CRH	0.75399	0
AL133346.1	CCN2	0.814171	0
CCR5AS	EBI3	0.728275	0
AC011899.2	EBI3	0.702874	0
PCED1B-AS1	EBI3	0.715264	0
AL139147.1	FGF1	0.725602	0
HECW2-AS1	FGF1	0.7338	0
LINC01614	FGF1	0.752985	0
AC004160.1	FGF1	0.707999	0
LINC00702	FGF1	0.744881	0

FGF13-AS1	FGF13	0.761236	0
LINC01141	FGF22	0.747347	0
ZNF385D-AS2	FGF6	0.73253	0
LINC02500	FGF6	0.73456	0
AL133166.1	FGF6	0.743324	0
LINC01916	FGF6	0.740159	0
TTY10	FGF6	0.721349	0
HECW2-AS1	FGF7	0.744327	0
LINC01614	FGF7	0.806765	0
AC105384.1	FGF7	0.715399	0
MSC-AS1	FGF7	0.72138	0
LINC00702	FGF7	0.818745	0
ACTA2-AS1	FGF7	0.745841	0
LINC01638	FGF7	0.720307	0
AC068987.3	FIGNL2	0.963381	0
FIGNL2-DT	FIGNL2	0.860513	0
AC024614.1	GCG	0.992243	0
GDNF-AS1	GDNF	0.778545	0
LINC01943	GMFG	0.712626	0
CCR5AS	GMFG	0.81987	0
LINC01094	GMFG	0.742356	0
AC147651.4	GMFG	0.715127	0
PCED1B-AS1	GMFG	0.884166	0
LINC02285	GMFG	0.704636	0
AC138207.5	GMFG	0.730218	0
AL590764.1	GMFG	0.781803	0
AC091185.1	GNRH1	0.739641	0
HECW2-AS1	GREM1	0.735383	0
LINC01614	GREM1	0.794518	0
LINC01615	GREM1	0.714116	0
LINC02544	GREM1	0.749479	0
AC134312.5	GREM1	0.722354	0
LINC01929	GREM1	0.760165	0
LINC01429	GREM1	0.700434	0
MIR31HG	IFNE	0.739356	0
AC011700.1	IFNW1	0.702405	0
IGF2-AS	IGF2	0.839099	0
AC145098.1	IL16	0.712861	0
AC011899.2	IL16	0.736548	0
AC090559.1	IL16	0.76458	0
AL161772.1	IL17D	0.805227	0
LINC01378	IL17F	0.75117	0
AC064807.3	IL17F	0.756399	0
AC135068.7	IL17F	0.765015	0

AC108462.1	IL1F10	0.755658	0
LINC01849	IL1F10	0.72109	0
AC022239.1	IL36A	0.718449	0
AL445471.2	IL26	0.741482	0
LINC01350	IL26	0.760698	0
AC011718.1	IL26	0.775084	0
AL121910.1	IL31	0.707066	0
AL139147.1	INHBA	0.71001	0
AL136987.1	INHBA	0.717311	0
AC007750.1	INHBA	0.802256	0
HECW2-AS1	INHBA	0.802457	0
LINC01614	INHBA	0.893622	0
AC112721.1	INHBA	0.730513	0
AC112721.2	INHBA	0.727947	0
AC011352.1	INHBA	0.730391	0
AC011352.3	INHBA	0.706341	0
AL356417.2	INHBA	0.714277	0
AL109924.1	INHBA	0.747334	0
LINC01615	INHBA	0.742159	0
LINC02544	INHBA	0.751712	0
AC004160.1	INHBA	0.719031	0
LINC00702	INHBA	0.812922	0
ACTA2-AS1	INHBA	0.718189	0
LNCOG	INHBA	0.708165	0
LINC00519	INHBA	0.701524	0
AC134312.5	INHBA	0.729219	0
LINC01929	INHBA	0.744968	0
LINC01429	INHBA	0.710843	0
AC004264.1	LIF	0.859599	0
AC007848.2	NTF3	0.724565	0
AC008687.3	NTF4	0.761325	0
AC124301.1	PPY	0.708195	0
C8orf49	PROK1	0.748406	0
MIR202HG	PROK1	0.729964	0
AC022098.2	RLN3	0.917698	0
LINC01614	SCG2	0.752865	0
LINC01929	SCG2	0.701236	0
LINC01094	SPP1	0.73209	0
TGFB2-AS1	TGFB2	0.8646	0
CCR5AS	TNFSF13B	0.731969	0
LINC01094	TNFSF13B	0.792457	0
PCED1B-AS1	TNFSF13B	0.753273	0
AL355095.1	UTS2B	0.779612	0
LINC00469	UTS2B	0.856664	0

CSPG4P1Y	UTS2B	0.876456	0
LINC01614	ANGPTL2	0.712956	0
AC009093.1	ANGPTL2	0.730676	0
AL136084.3	APLNR	0.71435	0
AC244035.1	AVPR1B	0.912311	0
CCR5AS	C3AR1	0.805587	0
LINC01094	C3AR1	0.893098	0
AC006033.2	C3AR1	0.753287	0
AC011899.2	C3AR1	0.825125	0
LINC01150	C3AR1	0.783216	0
AC090559.1	C3AR1	0.82637	0
PCED1B-AS1	C3AR1	0.788031	0
AC138207.5	C3AR1	0.739664	0
AC110995.1	C3AR1	0.767843	0
AL590764.1	C3AR1	0.752535	0
CNTFR-AS1	CNTFR	0.708473	0
CCR5AS	CSF1R	0.751511	0
LINC01094	CSF1R	0.836788	0
AC145098.1	CSF1R	0.732206	0
AC006033.2	CSF1R	0.741178	0
AC011899.2	CSF1R	0.866039	0
LINC01150	CSF1R	0.791229	0
AC090559.1	CSF1R	0.872879	0
PCED1B-AS1	CSF1R	0.730063	0
AC138207.5	CSF1R	0.754873	0
AC110995.1	CSF1R	0.742066	0
CCR5AS	CSF2RA	0.767173	0
LINC01094	CSF2RA	0.806268	0
AC006033.2	CSF2RA	0.709362	0
AC011899.2	CSF2RA	0.783198	0
LINC01150	CSF2RA	0.741938	0
AC090559.1	CSF2RA	0.792576	0
PCED1B-AS1	CSF2RA	0.751967	0
AC138207.5	CSF2RA	0.715003	0
AL590764.1	CSF2RA	0.716402	0
CCR5AS	CSF2RB	0.701095	0
LINC01094	CSF2RB	0.783531	0
AC145098.1	CSF2RB	0.765217	0
AC006033.2	CSF2RB	0.706454	0
AC011899.2	CSF2RB	0.818216	0
AC090559.1	CSF2RB	0.81269	0
AL590764.1	CSF2RB	0.702758	0
FAM198B-AS1	ENG	0.726947	0
LINC01391	ESR2	0.791603	0

C8orf49	ESR2	0.708359	0
MIR202HG	ESR2	0.725563	0
AC091806.1	ESR2	0.794868	0
AC087623.1	FGFR1	0.725963	0
AC092155.1	FSHR	0.762732	0
AC022166.1	FSHR	0.761889	0
AL138812.1	GHSR	0.739765	0
AC013248.1	GHSR	0.787841	0
LINC02038	HNF4A	0.799268	0
HNF1A-AS1	HNF4A	0.788539	0
HNF4A-AS1	HNF4A	0.732872	0
CCR5AS	IL10RA	0.762625	0
LINC01094	IL10RA	0.839442	0
AC145098.1	IL10RA	0.762497	0
AC006033.2	IL10RA	0.749976	0
TRG-AS1	IL10RA	0.714114	0
AC011899.2	IL10RA	0.867444	0
LINC01150	IL10RA	0.744892	0
AC090559.1	IL10RA	0.849846	0
PCED1B-AS1	IL10RA	0.781057	0
LINC01146	IL10RA	0.709802	0
AC138207.5	IL10RA	0.743548	0
AC004687.1	IL10RA	0.701365	0
AC110995.1	IL10RA	0.716755	0
AL590764.1	IL10RA	0.748781	0
AC011899.2	IL12RB1	0.716697	0
PCED1B-AS1	IL12RB1	0.751704	0
AL590764.1	IL12RB1	0.710121	0
LINC01871	IL2RB	0.774241	0
TRG-AS1	IL2RB	0.771067	0
PCED1B-AS1	IL2RB	0.743188	0
LINC00426	IL2RB	0.709774	0
AC243960.1	IL2RB	0.708028	0
LINC01871	IL18RAP	0.711679	0
TRG-AS1	IL18RAP	0.742818	0
LINC01934	IL21R	0.718535	0
LINC01094	IL21R	0.704469	0
TRG-AS1	IL21R	0.749405	0
LINC00996	IL21R	0.70104	0
PCED1B-AS1	IL21R	0.762712	0
LINC00426	IL21R	0.751136	0
AC004585.1	IL21R	0.764639	0
AC243960.1	IL21R	0.760019	0
AL590764.1	IL21R	0.738971	0

LINC01871	IL2RG	0.794248	0
CCR5AS	IL2RG	0.70012	0
TRG-AS1	IL2RG	0.715421	0
PCED1B-AS1	IL2RG	0.826724	0
AC004585.1	IL2RG	0.715565	0
AC243960.1	IL2RG	0.711567	0
AL590764.1	IL2RG	0.711533	0
AC106739.1	IL4R	0.845949	0
LINC01765	IL5RA	0.828114	0
AC104809.1	IL5RA	0.713801	0
SRGAP3-AS2	IL5RA	0.810276	0
LINC01267	IL5RA	0.728725	0
HHATL-AS1	IL5RA	0.748129	0
LINC01513	IL5RA	0.738765	0
AC010255.1	IL5RA	0.722446	0
AC010255.2	IL5RA	0.719396	0
AC113349.1	IL5RA	0.727261	0
AL161618.1	IL5RA	0.817179	0
AL590491.2	IL5RA	0.724898	0
AL353770.4	IL5RA	0.707582	0
LINC02730	IL5RA	0.717075	0
AL357093.2	IL5RA	0.764443	0
AL357093.1	IL5RA	0.732964	0
UMODL1-AS1	IL5RA	0.752051	0
LINC00426	IL9R	0.712588	0
AC093278.2	KDR	0.711807	0
AC078860.2	LGR5	0.800008	0
AC092155.1	NR1H4	0.721583	0
LINC01391	NR1H4	0.705514	0
C8orf49	NR1H4	0.774179	0
FGD5-AS1	NR2C2	0.701349	0
SH3BP5-AS1	NR2C2	0.707685	0
AC090948.2	NR2C2	0.716601	0
AC138956.2	NR2C2	0.72425	0
AC108010.1	NR2C2	0.783841	0
AC104938.1	NR2E3	0.838561	0
NR2F1-AS1	NR2F1	0.85411	0
AC103746.1	NR2F2	0.709294	0
AC025259.3	NR4A1	0.865616	0
LINC02074	PRLHR	0.736839	0
AL031429.2	PTGER3	0.730209	0
AL109741.1	S1PR1	0.712327	0
SSTR5-AS1	SSTR5	0.863465	0
AC011899.2	TNFRSF11A	0.718694	0

AL365361.1	TNFRSF13B	0.734045	0
LINC00861	TNFRSF13B	0.701943	0
AC243960.1	TNFRSF13B	0.731632	0
TNFRSF14-AS1	TNFRSF14	0.770424	0
AL365361.1	TNFRSF17	0.751633	0
LINC00582	TNFRSF17	0.809537	0
LINC02362	TNFRSF17	0.84933	0
AC246787.2	TNFRSF17	0.743263	0
LINC00327	TNFRSF19	0.733154	0
AC011899.2	TNFRSF1B	0.734964	0
AC090559.1	TNFRSF1B	0.711907	0
VIPR1-AS1	VIPR1	0.777446	0
CCR5AS	ITGAL	0.719346	0
LINC01094	ITGAL	0.755984	0
AC145098.1	ITGAL	0.739874	0
AC006033.2	ITGAL	0.742249	0
TRG-AS1	ITGAL	0.782208	0
AC011899.2	ITGAL	0.803507	0
LINC00861	ITGAL	0.72166	0
AC090559.1	ITGAL	0.761159	0
PCED1B-AS1	ITGAL	0.801946	0
LINC00426	ITGAL	0.74888	0
AC138207.5	ITGAL	0.707732	0
AC015911.3	ITGAL	0.709941	0
AC004687.1	ITGAL	0.737996	0
AC243960.1	ITGAL	0.765728	0
AL590764.1	ITGAL	0.738377	0
CCR5AS	ITGB2	0.769724	0
LINC01094	ITGB2	0.825475	0
AC006033.2	ITGB2	0.721528	0
AC011899.2	ITGB2	0.826969	0
LINC01150	ITGB2	0.713435	0
AC090559.1	ITGB2	0.805419	0
PCED1B-AS1	ITGB2	0.768226	0
AC138207.5	ITGB2	0.70884	0
AL590764.1	ITGB2	0.712913	0
AP003680.1	PAK1	0.71722	0
CCR5AS	TYROBP	0.817704	0
LINC01094	TYROBP	0.760595	0
AC147651.4	TYROBP	0.703523	0
PCED1B-AS1	TYROBP	0.871256	0
AC138207.5	TYROBP	0.747074	0
AL590764.1	TYROBP	0.736016	0
TRG-AS1	LCK	0.705142	0

LINC00426	LCK	0.725475	0
AC243960.1	LCK	0.703071	0
CCR5AS	FCGR3A	0.731427	0
LINC01094	FCGR3A	0.875088	0
AC011899.2	FCGR3A	0.762168	0
AC090559.1	FCGR3A	0.750611	0
PCED1B-AS1	FCGR3A	0.753402	0
AC110995.1	FCGR3A	0.715502	0
AL590764.1	FCGR3A	0.725456	0
LINC01871	NCR3	0.755918	0
LINC01871	CD247	0.800316	0
LINC01934	CD247	0.743478	0
LINC02084	CD247	0.708074	0
TRG-AS1	CD247	0.838089	0
LINC00861	CD247	0.715101	0
LINC02446	CD247	0.763323	0
PCED1B-AS1	CD247	0.764961	0
LINC00426	CD247	0.78764	0
AC243829.4	CD247	0.702149	0
AC004585.1	CD247	0.745921	0
AC243960.1	CD247	0.78582	0
AL590764.1	CD247	0.7145	0
LINC01934	ZAP70	0.737126	0
TRG-AS1	ZAP70	0.797897	0
LINC00861	ZAP70	0.795205	0
LINC00426	ZAP70	0.804491	0
AC015911.3	ZAP70	0.726669	0
AC004585.1	ZAP70	0.737941	0
AC243960.1	ZAP70	0.783477	0
CCR5AS	LCP2	0.806867	0
LINC01094	LCP2	0.857973	0
AC006033.2	LCP2	0.769471	0
TRG-AS1	LCP2	0.739886	0
AC011899.2	LCP2	0.799126	0
LINC01150	LCP2	0.725775	0
AC090559.1	LCP2	0.783787	0
PCED1B-AS1	LCP2	0.842199	0
LINC01146	LCP2	0.73111	0
AC138207.5	LCP2	0.748263	0
AC243960.1	LCP2	0.72222	0
AL590764.1	LCP2	0.780465	0
AC109460.3	LAT	0.824836	0
FGD5-AS1	RAF1	0.775768	0
PCED1B-AS1	HCST	0.772409	0

LINC01871	CD48	0.720937	0
CCR5AS	CD48	0.816311	0
LINC01094	CD48	0.789917	0
TRG-AS1	CD48	0.702149	0
PCED1B-AS1	CD48	0.860004	0
LINC01146	CD48	0.714061	0
AC243960.1	CD48	0.735477	0
AL590764.1	CD48	0.787776	0
LINC01871	CD244	0.701003	0
TRG-AS1	CD244	0.815227	0
LINC02446	CD244	0.729288	0
PCED1B-AS1	CD244	0.706597	0
LINC00426	CD244	0.744188	0
AC243960.1	CD244	0.743577	0
AL365361.1	SH2D1A	0.738012	0
LINC01871	SH2D1A	0.73609	0
LINC01943	SH2D1A	0.716996	0
LINC01934	SH2D1A	0.805061	0
LINC02084	SH2D1A	0.768741	0
TRG-AS1	SH2D1A	0.783095	0
LINC00861	SH2D1A	0.758654	0
LINC02446	SH2D1A	0.770167	0
PCED1B-AS1	SH2D1A	0.756255	0
LINC00426	SH2D1A	0.811327	0
AC243829.4	SH2D1A	0.709099	0
AC004585.1	SH2D1A	0.811577	0
AC243960.1	SH2D1A	0.843012	0
AL590764.1	SH2D1A	0.702312	0
AL157394.1	FAS	0.74968	0
LINC01871	GZMB	0.776337	0
LINC01871	PRF1	0.809777	0
TRG-AS1	PRF1	0.766289	0
LINC02446	PRF1	0.746815	0
PCED1B-AS1	PRF1	0.703182	0
LINC00426	PRF1	0.718418	0
LINC01871	CD3D	0.845931	0
LINC01943	CD3D	0.742957	0
LINC01934	CD3D	0.730722	0
LINC02084	CD3D	0.715538	0
LINC02446	CD3D	0.736336	0
PCED1B-AS1	CD3D	0.829522	0
LINC00426	CD3D	0.72435	0
AC004585.1	CD3D	0.764468	0
AC243960.1	CD3D	0.749637	0

AL590764.1	CD3D	0.713634	0
LINC01871	CD3E	0.838339	0
LINC01934	CD3E	0.74925	0
LINC02084	CD3E	0.71941	0
TRG-AS1	CD3E	0.754137	0
LINC00861	CD3E	0.723252	0
LINC02446	CD3E	0.756916	0
PCED1B-AS1	CD3E	0.838217	0
LINC00426	CD3E	0.768427	0
AC004585.1	CD3E	0.770835	0
AC243960.1	CD3E	0.778853	0
AL590764.1	CD3E	0.707131	0
LINC01871	CD3G	0.710154	0
LINC01934	CD3G	0.762933	0
LINC02084	CD3G	0.735125	0
TRG-AS1	CD3G	0.77194	0
LINC00861	CD3G	0.733066	0
LINC02446	CD3G	0.763938	0
LINC00426	CD3G	0.779546	0
AC004585.1	CD3G	0.747084	0
AC243960.1	CD3G	0.775368	0
CCR5AS	PTPRC	0.794298	0
LINC01094	PTPRC	0.863429	0
AC006033.2	PTPRC	0.776389	0
TRG-AS1	PTPRC	0.755666	0
AC011899.2	PTPRC	0.815124	0
LINC01150	PTPRC	0.718135	0
AC090559.1	PTPRC	0.801598	0
PCED1B-AS1	PTPRC	0.836766	0
LINC00426	PTPRC	0.702119	0
LINC01146	PTPRC	0.721493	0
AC138207.5	PTPRC	0.715075	0
AC243960.1	PTPRC	0.764242	0
AL590764.1	PTPRC	0.785162	0
AL365361.1	ITK	0.724296	0
LINC01871	ITK	0.720206	0
LINC01934	ITK	0.791301	0
LINC02084	ITK	0.719394	0
LINC02273	ITK	0.741035	0
TRG-AS1	ITK	0.822158	0
LINC00996	ITK	0.710439	0
LINC00861	ITK	0.819824	0
LINC02446	ITK	0.778618	0
PCED1B-AS1	ITK	0.741804	0

LINC00426	ITK	0.844591	0
AC015911.3	ITK	0.765795	0
AC243829.4	ITK	0.705077	0
AC004585.1	ITK	0.797491	0
AC243960.1	ITK	0.834909	0
LINC01934	GRAP2	0.76932	0
TRG-AS1	GRAP2	0.781194	0
LINC00861	GRAP2	0.778464	0
LINC02446	GRAP2	0.723912	0
LINC00426	GRAP2	0.81738	0
AC015911.3	GRAP2	0.750212	0
AC004585.1	GRAP2	0.739935	0
AC243960.1	GRAP2	0.763774	0
LINC01934	ICOS	0.743119	0
AL591468.1	ICOS	0.700161	0
TRG-AS1	ICOS	0.743042	0
LINC02446	ICOS	0.743205	0
LINC00426	ICOS	0.743693	0
AC004585.1	ICOS	0.720276	0
AC243960.1	ICOS	0.761847	0
LINC01943	CTLA4	0.709371	0
LINC01934	CTLA4	0.708566	0
LINC00426	CTLA4	0.704611	0
AC004585.1	CTLA4	0.708449	0
AC243960.1	CTLA4	0.72044	0
AC078883.1	PDK1	0.717271	0
PRKCQ-AS1	PRKCQ	0.83875	0
