

Comprehensive analysis of long non-coding RNA-mRNA co-expression patterns in thyroid cancer

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Supplementary Table 2: 452 differentially expressed mRNAs

test_id	gene_name	chr	length	log2FC	style	p_value
XLOC_058243	NRK	chrX	136588	-3.6683	up	0.0015
XLOC_011833	PCED1B	chr12	157390	-2.73674	up	0.0015
XLOC_001261	CHIA	chr1	29705	-2.69279	up	0.0015
XLOC_024441	PLEKHH3	chr17	10432	-1.52052	up	0.0015
XLOC_022999	LASP1	chr17	54294	-1.22688	up	0.0015
XLOC_045537	SPARC	chr5	26070	-1.11431	up	0.0015
XLOC_007825	TTC40	chr10	134540	1.02401	down	0.0015
XLOC_043469	ARHGEF28	chr5	316205	1.65953	down	0.0015
XLOC_051639	RELN	chr7	518258	3.15461	down	0.0015
XLOC_030446	HOXD1	chr2	2511	-5.80902	up	0.00145
XLOC_052526	ADAMDEC1	chr8	21730	-4.95571	up	0.00145
XLOC_058252	CLDN2	chrX	39183	-3.30521	up	0.00145
XLOC_028046	ASF1B	chr19	17503	-3.30358	up	0.00145
XLOC_013652	E2F7	chr12	44334	-2.73437	up	0.00145
XLOC_020815	GPR114	chr16	52997	-2.38404	up	0.00145
XLOC_031643	FBXO41	chr2	30431	-2.22929	up	0.00145
XLOC_003038	MAP3K6	chr1	13722	-1.34948	up	0.00145
XLOC_027306	VASP	chr19	20624	-1.31124	up	0.00145
XLOC_041628	PPARGC1A	chr4	380928	1.79416	down	0.00145
XLOC_042597	GALNTL6	chr4	54433	-4.2582	up	0.0014
XLOC_038586	EOMES	chr3	6768	-3.63372	up	0.0014
XLOC_017395	SYNDIG1L	chr14	20210	-3.2375	up	0.0014
XLOC_020730	NOD2	chr16	39749	-2.11491	up	0.0014
XLOC_048073	TNFRSF21	chr6	78374	-2.09983	up	0.0014
XLOC_003801	MYBPHL	chr1	15317	-2.05177	up	0.0014
XLOC_011662	SLCO1C1	chr12	58403	-1.63769	up	0.0014
XLOC_020790	MT1E	chr16	1775	1.60897	down	0.0014
XLOC_026129	MRO	chr18	30285	2.32244	down	0.0014
XLOC_036708	CENPM	chr22	8444	-3.16763	up	0.00135
XLOC_034740	NKAIN4	chr20	32146	-3.06157	up	0.00135
XLOC_043344	GAPT	chr5	5761	-2.33139	up	0.00135
XLOC_039800	MASP1	chr3	109598	2.18328	down	0.00135
XLOC_001112	BCAR3	chr1	13706	2.68044	down	0.00135
XLOC_004280	FCRL1	chr1	27875	-4.31965	up	0.0013
XLOC_004628	ASPM	chr1	62570	-3.71796	up	0.0013

XLOC_036967	SLC6A1	chr3	46527	-2.23361	up	0.0013
XLOC_047835	HLA-C	chr6	4113	-1.32756	up	0.0013
XLOC_014141	GALNT9	chr12	225556	1.3916	down	0.0013
XLOC_028731	KLK4	chr19	4785	2.8608	down	0.0013
XLOC_043930	KIF20A	chr5	8997	-3.14807	up	0.00125
XLOC_003086	SDC3	chr1	39298	-1.55709	up	0.00125
XLOC_046167	RBM24	chr6	12530	2.28735	down	0.00125
XLOC_026850	B3GNT3	chr19	21568	-6.2498	up	0.0012
XLOC_026002	CDH2	chr18	226540	-3.96318	up	0.0012
XLOC_023872	PIK3R6	chr17	65099	-3.20929	up	0.0012
XLOC_012935	OLR1	chr12	14153	-3.19405	up	0.0012
XLOC_027913	FBN3	chr19	84889	-1.79432	up	0.0012
XLOC_028146	ISYNA1	chr19	7668	-1.66102	up	0.0012
XLOC_010337	MS4A6A	chr11	13068	-1.54533	up	0.0012
XLOC_046187	ID4	chr6	21991	1.19696	down	0.0012
XLOC_011798	PDZRN4	chr12	390103	-3.62653	up	0.00115
XLOC_023246	DLX4	chr17	6465	-2.0223	up	0.00115
XLOC_053168	TRHR	chr8	40249	-3.5184	up	0.0011
XLOC_039340	CPNE4	chr3	752001	-2.8792	up	0.0011
XLOC_004238	ARHGEF2	chr1	64234	-1.12374	up	0.0011
XLOC_049510	IL6	chr7	6119	2.75839	down	0.0011
XLOC_037047	THRB	chr3	220005	2.83	down	0.0011
XLOC_013695	TSPAN19	chr12	21962	3.26438	down	0.0011
XLOC_009941	CALCA	chr11	5791	-6.49739	up	0.00105
XLOC_023646	GCGR	chr17	12928	-4.24351	up	0.00105
XLOC_002410	RHOA	chr1	12048	-2.1324	up	0.00105
XLOC_020189	C16orf59	chr16	4957	-1.61094	up	0.00105
XLOC_051142	IGFBP3	chr7	9559	-1.46578	up	0.00105
XLOC_047891	HLA-DQB2	chr6	7468	-3.55957	up	0.001
XLOC_037232	CCR3	chr3	103233	-2.39562	up	0.001
XLOC_016374	PAPLN	chr14	108173	-1.73052	up	0.001
XLOC_038745	ALS2CL	chr3	25677	-1.24285	up	0.001
XLOC_034018	PCK1	chr20	5378	3.21227	down	0.001
XLOC_023410	MILR1	chr17	10119	-2.99483	up	0.00095
XLOC_048337	CNR1	chr6	26496	-2.83379	up	0.00095
XLOC_047899	HLA-DPA1	chr6	16207	-1.9352	up	0.00095
XLOC_032568	TFPI	chr2	101818	1.75966	down	0.00095
XLOC_027075	FXRD3	chr19	8497	-4.78447	up	0.0009
XLOC_036050	RASD2	chr22	13646	-3.71511	up	0.0009
XLOC_002061	RGS1	chr1	4329	-2.65956	up	0.0009
XLOC_058539	MAGEC3	chrX	59919	-2.4173	up	0.0009
XLOC_048669	CITED2	chr6	5403	1.21848	down	0.0009
XLOC_027754	C19orf26	chr19	9770	-2.53934	up	0.00085
XLOC_037870	TMEM108	chr3	360367	-2.32709	up	0.00085
XLOC_028638	BBC3	chr19	12266	-2.06299	up	0.00085

XLOC_048729	ZC3H12D	chr6	37724	-1.9539	up	0.00085
XLOC_003103	BAI2	chr1	41182	-1.48842	up	0.00085
XLOC_023814	TEKT1	chr17	42629	3.36474	down	0.00085
XLOC_040793	IBSP	chr4	12342	N/A	up	0.00085
XLOC_045484	C5orf46	chr5	25813	-6.63777	up	0.0008
XLOC_031928	AFF3	chr2	597175	-1.94542	up	0.0008
XLOC_023156	FMNL1	chr17	26180	-1.4403	up	0.0008
XLOC_009144	SERPINH1	chr11	14085	-1.29693	up	0.0008
XLOC_003040	CD164L2	chr1	4261	-4.97901	up	0.00075
XLOC_001746	SLAMF7	chr1	16118	-3.14273	up	0.00075
XLOC_013269	RND1	chr12	8754	2.15234	down	0.00075
XLOC_008796	FAM111B	chr11	27180	-4.27049	up	0.0007
XLOC_023477	KCNJ2	chr17	11603	-4.0457	up	0.0007
XLOC_024499	PLCD3	chr17	24540	-2.90128	up	0.0007
XLOC_004259	CRABP2	chr1	6211	-2.19335	up	0.0007
XLOC_033869	MYBL2	chr20	49386	-3.81492	up	0.00065
XLOC_024352	TOP2A	chr17	29435	-3.66524	up	0.00065
XLOC_051787	PRRT4	chr7	11391	-2.74314	up	0.00065
XLOC_046039	FOXQ1	chr6	2318	-2.38362	up	0.00065
XLOC_011478	CD4	chr12	33963	-1.96756	up	0.00065
XLOC_036154	MEI1	chr22	100997	-1.9204	up	0.00065
XLOC_023826	DLG4	chr17	29882	-1.62345	up	0.00065
XLOC_047839	HLA-B	chr6	3325	-1.52896	up	0.00065
XLOC_002941	RAP1GAP	chr1	74210	1.37213	down	0.00065
XLOC_038577	NEK10	chr3	262351	1.60977	down	0.00065
XLOC_045402	MZB1	chr5	2602	-6.74354	up	0.0006
XLOC_007319	PLA2G12B	chr10	21896	-5.3959	up	0.0006
XLOC_046031	IRF4	chr6	19709	-3.93797	up	0.0006
XLOC_022529	ALOX15B	chr17	10240	-3.61592	up	0.0006
XLOC_037121	STAC	chr3	167664	-3.49544	up	0.0006
XLOC_038238	EPHB3	chr3	20719	-3.42865	up	0.0006
XLOC_005698	OLAH	chr10	41626	-2.99351	up	0.0006
XLOC_024953	TK1	chr17	13399	-2.803	up	0.0006
XLOC_011553	CLEC12A	chr12	44397	-2.73923	up	0.0006
XLOC_049670	SUGCT	chr7	746783	-2.40895	up	0.0006
XLOC_033627	PCSK2	chr20	258477	-2.31545	up	0.0006
XLOC_034043	PHACTR3	chr20	270385	-2.26246	up	0.0006
XLOC_036383	GGT2	chr22	20882	-2.14391	up	0.0006
XLOC_039712	ZMAT3	chr3	68220	-1.83784	up	0.0006
XLOC_012266	PTPRQ	chr12	275895	2.23721	down	0.0006
XLOC_003768	COL11A1	chr1	232030	-5.31659	up	0.00055
XLOC_042280	TMEM155	chr4	6505	-4.59449	up	0.00055
XLOC_024496	KIF18B	chr17	23431	-3.58484	up	0.00055
XLOC_007786	ADAM12	chr10	376613	-2.50014	up	0.00055
XLOC_029680	GNLY	chr2	13682	-2.30159	up	0.00055

XLOC_003161	COL8A2	chr1	32031	-1.98604	up	0.00055
XLOC_058345	LONRF3	chrX	49943	2.31331	down	0.00055
XLOC_000097	ESPN	chr1	36602	-4.97059	up	0.0005
XLOC_053452	CSMD1	chr8	2059620	-4.06239	up	0.0005
XLOC_056191	CDKN2B	chr9	6558	-3.24779	up	0.0005
XLOC_043856	PDLIM4	chr5	19353	-2.83395	up	0.0005
XLOC_027396	CD37	chr19	11038	-2.20931	up	0.0005
XLOC_033792	SPAG4	chr20	6701	-1.90141	up	0.0005
XLOC_020129	HAGHL	chr16	8614	-1.85373	up	0.0005
XLOC_051008	PDE1C	chr7	548150	-1.75304	up	0.0005
XLOC_027440	KLK2	chr19	19398	2.54984	down	0.0005
XLOC_030597	AOX1	chr2	91197	2.92122	down	0.0005
XLOC_030039	MARCO	chr2	52495	-4.62299	up	0.00045
XLOC_057615	PHEX	chrX	229996	-4.35327	up	0.00045
XLOC_027432	C19orf81	chr19	10064	-3.81494	up	0.00045
XLOC_027156	RYR1	chr19	153899	-2.86698	up	0.00045
XLOC_002893	MFAP2	chr1	7036	-2.59138	up	0.00045
XLOC_039756	KLHL6	chr3	68356	-2.494	up	0.00045
XLOC_047898	HLA-DOA	chr6	13907	-2.48986	up	0.00045
XLOC_027077	FXYD5	chr19	15169	-2.34531	up	0.00045
XLOC_019217	PLCB2	chr15	29763	-1.72919	up	0.00045
XLOC_045406	TMEM173	chr5	7420	-1.67072	up	0.00045
XLOC_008947	EHBP1L1	chr11	18166	-1.62217	up	0.00045
XLOC_025027	DCXR	chr17	2597	1.36821	down	0.00045
XLOC_044650	LIFR	chr5	133687	1.88873	down	0.00045
XLOC_038733	SLC6A20	chr3	47989	-5.4617	up	0.0004
XLOC_002652	C1orf170	chr1	7083	-4.44607	up	0.0004
XLOC_034125	SIRPG	chr20	58412	-4.30212	up	0.0004
XLOC_046557	GLP1R	chr6	43090	-4.2572	up	0.0004
XLOC_059526	TMEM255A	chrX	52997	-4.05258	up	0.0004
XLOC_027902	CTD-3193O13.9	chr19	5722	-3.86377	up	0.0004
XLOC_004303	AIM2	chr1	91112	-3.48133	up	0.0004
XLOC_055155	MELK	chr9	105121	-2.94804	up	0.0004
XLOC_022569	SHISA6	chr17	323871	-2.41692	up	0.0004
XLOC_051524	PDK4	chr7	13908	-2.23194	up	0.0004
XLOC_000490	SERINC2	chr1	25114	-1.91767	up	0.0004
XLOC_023539	ITGB4	chr17	36596	-1.88785	up	0.0004
XLOC_018298	SPINT1	chr15	14190	-1.52847	up	0.0004
XLOC_056914	MEGF9	chr9	113958	-1.45785	up	0.0004
XLOC_027010	ZNF536	chr19	485380	2.50893	down	0.0004
XLOC_043458	TMEM171	chr5	20836	3.25171	down	0.0004
XLOC_041826	SPINK2	chr4	11969	-3.79183	up	0.00035
XLOC_012184	LYZ	chr12	5928	-2.83448	up	0.00035
XLOC_027989	ACP5	chr19	4349	-2.81463	up	0.00035
XLOC_056864	RNF183	chr9	6410	-2.50234	up	0.00035

XLOC_038287	IL1RAP	chr3	144004	-2.42989	up	0.00035
XLOC_008838	TMEM132A	chr11	12703	-2.24596	up	0.00035
XLOC_001747	LY9	chr1	32728	-2.24135	up	0.00035
XLOC_027338	NPAS1	chr19	26021	-1.82403	up	0.00035
XLOC_029617	HK2	chr2	59379	-1.81846	up	0.00035
XLOC_019347	MYEF2	chr15	41483	-1.80452	up	0.00035
XLOC_051405	HIP1	chr7	205855	-1.6525	up	0.00035
XLOC_047110	GJA1	chr6	14036	1.13737	down	0.00035
XLOC_039561	VEPH1	chr3	273880	1.75606	down	0.00035
XLOC_037526	EPHA3	chr3	375131	1.79635	down	0.00035
XLOC_003672	HFM1	chr1	144104	1.93381	down	0.00035
XLOC_030811	DES	chr2	8363	2.17335	down	0.00035
XLOC_032097	TFCP2L1	chr2	68687	2.32922	down	0.00035
XLOC_048851	C6orf118	chr6	45228	3.23836	down	0.00035
XLOC_029318	QPCT	chr2	48267	-4.21708	up	0.0003
XLOC_045616	ATP10B	chr5	289200	-3.98972	up	0.0003
XLOC_023147	HIGD1B	chr17	4134	-2.78526	up	0.0003
XLOC_009018	ALDH3B1	chr11	21236	-2.69589	up	0.0003
XLOC_033614	MACROD2	chr20	2057831	-2.47139	up	0.0003
XLOC_044811	CENPK	chr5	45406	-2.09526	up	0.0003
XLOC_048000	TREM1	chr6	19772	-2.07347	up	0.0003
XLOC_027412	CPT1C	chr19	22847	-1.58135	up	0.0003
XLOC_050764	MICALL2	chr7	31235	-1.13046	up	0.0003
XLOC_032638	FTCDNL1	chr2	188676	2.22681	down	0.0003
XLOC_018462	UNC13C	chr15	650220	2.23845	down	0.0003
XLOC_038286	CLDN16	chr3	90730	-6.56502	up	0.00025
XLOC_059214	CITED1	chrX	5553	-4.98412	up	0.00025
XLOC_002152	ADORA1	chr1	77158	-3.90731	up	0.00025
XLOC_004251	IQGAP3	chr1	47279	-3.7883	up	0.00025
XLOC_018844	ACAN	chr15	71912	-3.52633	up	0.00025
XLOC_036429	DERL3	chr22	5594	-3.34911	up	0.00025
XLOC_000608	MFSD2A	chr1	17105	-3.05451	up	0.00025
XLOC_032868	DOCK10	chr2	277356	-2.11082	up	0.00025
XLOC_031941	RFX8	chr2	89391	-2.06161	up	0.00025
XLOC_051370	MLXIPL	chr7	55293	-1.98921	up	0.00025
XLOC_023020	GRB7	chr17	15062	-1.97291	up	0.00025
XLOC_030526	COL3A1	chr2	38480	-1.76769	up	0.00025
XLOC_009039	CCND1	chr11	17653	-1.70236	up	0.00025
XLOC_046194	SOX4	chr6	6097	-1.61978	up	0.00025
XLOC_004143	S100A11	chr1	15402	-1.51395	up	0.00025
XLOC_004003	PDE4DIP	chr1	240217	-1.02292	up	0.00025
XLOC_047164	ENPP1	chr6	87343	1.76242	down	0.00025
XLOC_040942	ANK2	chr4	565637	2.11298	down	0.00025
XLOC_001229	KIAA1324	chr1	93970	2.92579	down	0.00025
XLOC_035487	TFF3	chr21	3985	3.02575	down	0.00025

XLOC_034080	BIRC7	chr20	6458	-6.19312	up	0.0002
XLOC_011434	PRMT8	chr12	212671	-6.19	up	0.0002
XLOC_004425	F5	chr1	75436	-5.06867	up	0.0002
XLOC_002113	C1orf106	chr1	24695	-4.54922	up	0.0002
XLOC_011056	TRIM29	chr11	74255	-4.54123	up	0.0002
XLOC_027448	SIGLEC7	chr19	11228	-4.18033	up	0.0002
XLOC_041556	CLNK	chr4	198471	-4.09081	up	0.0002
XLOC_002661	TNFRSF18	chr1	4099	-3.47635	up	0.0002
XLOC_008798	DTX4	chr11	39596	-3.42934	up	0.0002
XLOC_051709	TFEC	chr7	224849	-2.61524	up	0.0002
XLOC_004674	PTPN7	chr1	14727	-2.29404	up	0.0002
XLOC_050386	IRF5	chr7	12444	-2.24537	up	0.0002
XLOC_030972	FAM132B	chr2	9983	-2.08305	up	0.0002
XLOC_051000	NOD1	chr7	54868	-1.89747	up	0.0002
XLOC_000681	C1orf228	chr1	51176	-1.39327	up	0.0002
XLOC_053068	CPQ	chr8	505071	1.34841	down	0.0002
XLOC_029228	DRC1	chr2	54805	2.7285	down	0.0002
XLOC_041202	TDO2	chr4	65671	-5.99024	up	0.00015
XLOC_013540	C12orf56	chr12	126568	-4.77216	up	0.00015
XLOC_041911	IGJ	chr4	26277	-4.37284	up	0.00015
XLOC_004277	FCRL3	chr1	26578	-4.26984	up	0.00015
XLOC_028740	KLK13	chr19	10043	-3.97085	up	0.00015
XLOC_032015	BUB1	chr2	40530	-3.21587	up	0.00015
XLOC_000027	SAMD11	chr1	23655	-2.91676	up	0.00015
XLOC_003105	SPOCD1	chr1	25630	-2.72694	up	0.00015
XLOC_013713	DUSP6	chr12	20614	-2.67198	up	0.00015
XLOC_057149	ENTPD2	chr9	6019	-2.61895	up	0.00015
XLOC_051672	NRCAM	chr7	309261	-2.44901	up	0.00015
XLOC_019775	NMB	chr15	4115	-2.42607	up	0.00015
XLOC_047959	CPNE5	chr6	99248	-1.91505	up	0.00015
XLOC_058998	SLC38A5	chrX	11807	-1.91489	up	0.00015
XLOC_053367	LY6E	chr8	14680	-1.78353	up	0.00015
XLOC_052549	SCARA3	chr8	43429	-1.73983	up	0.00015
XLOC_017326	ZFP36L1	chr14	10295	-1.57121	up	0.00015
XLOC_057984	MSN	chrX	158798	-1.21005	up	0.00015
XLOC_030382	CYBRD1	chr2	35888	1.28708	down	0.00015
XLOC_055895	AIF1L	chr9	26819	1.51243	down	0.00015
XLOC_010040	DCDC1	chr11	539442	2.18333	down	0.00015
XLOC_012725	PIWIL1	chr12	50811	-5.3982	up	0.0001
XLOC_014107	TMEM132D	chr12	833729	-4.7896	up	0.0001
XLOC_025497	SIGLEC15	chr18	20727	-4.69546	up	0.0001
XLOC_050879	AGR2	chr7	41652	-3.77133	up	0.0001
XLOC_029843	CNGA3	chr2	53644	-3.49224	up	0.0001
XLOC_018134	GABRG3	chr15	564510	-3.48183	up	0.0001
XLOC_017682	AHNAK2	chr14	44164	-3.45102	up	0.0001

XLOC_010940	POU2AF1	chr11	103660	-3.42627	up	0.0001
XLOC_024736	BRIP1	chr17	182256	-3.27084	up	0.0001
XLOC_031721	TRABD2A	chr2	85359	-2.93383	up	0.0001
XLOC_045536	FAT2	chr5	87476	-2.86208	up	0.0001
XLOC_003183	EPHA10	chr1	51517	-2.73539	up	0.0001
XLOC_028141	PDE4C	chr19	48172	-2.56247	up	0.0001
XLOC_047198	MYB	chr6	37859	-2.55821	up	0.0001
XLOC_046579	MDFI	chr6	17470	-2.53852	up	0.0001
XLOC_034075	SLC17A9	chr20	17003	-2.26625	up	0.0001
XLOC_045515	CD74	chr5	11293	-2.03811	up	0.0001
XLOC_016788	INF2	chr14	33976	-1.98422	up	0.0001
XLOC_058872	DMD	chrX	2241765	-1.95025	up	0.0001
XLOC_007813	TCERG1L	chr10	223540	-1.9213	up	0.0001
XLOC_028080	RASAL3	chr19	13404	-1.86755	up	0.0001
XLOC_036084	LGALS1	chr22	4282	-1.562	up	0.0001
XLOC_057557	TMSB4X	chrX	2120	-1.53909	up	0.0001
XLOC_012043	DGKA	chr12	26897	-1.51844	up	0.0001
XLOC_048468	FYN	chr6	216790	-1.48184	up	0.0001
XLOC_023978	SREBF1	chr17	32749	-1.36246	up	0.0001
XLOC_019416	PRTG	chr15	133508	1.62884	down	0.0001
XLOC_019405	WDR72	chr15	249138	1.88578	down	0.0001
XLOC_052427	KIAA1456	chr8	93446	1.95314	down	0.0001
XLOC_048776	IPCEF1	chr6	202541	2.2806	down	0.0001
XLOC_053149	DCSTAMP	chr8	21984	-10.2289	up	5.00E-05
XLOC_027322	IGFL2	chr19	18312	-9.27274	up	5.00E-05
XLOC_008997	SYT12	chr11	44723	-8.68544	up	5.00E-05
XLOC_022233	SLC22A31	chr16	6087	-8.01688	up	5.00E-05
XLOC_059469	TRPC5	chrX	315851	-7.80341	up	5.00E-05
XLOC_049572	PRR15	chr7	3844	-7.60595	up	5.00E-05
XLOC_004273	FCRL5	chr1	39259	-7.46946	up	5.00E-05
XLOC_045619	GABRB2	chr5	260622	-7.26836	up	5.00E-05
XLOC_057049	FIBCD1	chr9	39711	-7.20678	up	5.00E-05
XLOC_046759	COL19A1	chr6	348471	-7.03834	up	5.00E-05
XLOC_004730	KLHDC8A	chr1	21034	-6.73378	up	5.00E-05
XLOC_039781	LIPH	chr3	53008	-6.58002	up	5.00E-05
XLOC_003325	PDZK1IP1	chr1	7452	-6.34533	up	5.00E-05
XLOC_001942	BRINP2	chr1	111520	-6.19858	up	5.00E-05
XLOC_028737	KLK10	chr19	8838	-6.16975	up	5.00E-05
XLOC_006155	ADAMTS14	chr10	89939	-6.16821	up	5.00E-05
XLOC_031742	SFTPB	chr2	11493	-5.9818	up	5.00E-05
XLOC_012153	HMGA2	chr12	142595	-5.94386	up	5.00E-05
XLOC_045184	TRIM36	chr5	55787	-5.87657	up	5.00E-05
XLOC_059606	HS6ST2	chrX	335382	-5.807	up	5.00E-05
XLOC_008826	MS4A1	chr11	15034	-5.77059	up	5.00E-05
XLOC_024409	KRT15	chr17	8823	-5.74228	up	5.00E-05

XLOC_010142	LRP4	chr11	68420	-5.69748	up	5.00E-05
XLOC_028562	KCNN4	chr19	19276	-5.69636	up	5.00E-05
XLOC_019704	RASGRF1	chr15	130827	-5.66594	up	5.00E-05
XLOC_047921	GRM4	chr6	133837	-5.60966	up	5.00E-05
XLOC_019633	STRA6	chr15	32817	-5.3804	up	5.00E-05
XLOC_005924	RET	chr10	53325	-5.28245	up	5.00E-05
XLOC_033911	SLC12A5	chr20	38429	-5.16562	up	5.00E-05
XLOC_036618	TMPRSS6	chr22	46044	-5.15063	up	5.00E-05
XLOC_021810	CBLN1	chr16	10436	-5.05128	up	5.00E-05
XLOC_032766	FN1	chr2	80640	-4.97452	up	5.00E-05
XLOC_027286	APOC1	chr19	5104	-4.96735	up	5.00E-05
XLOC_045354	CXCL14	chr5	8597	-4.91815	up	5.00E-05
XLOC_032379	DPP4	chr2	85117	-4.89829	up	5.00E-05
XLOC_004696	CHIT1	chr1	60815	-4.68591	up	5.00E-05
XLOC_029247	GCKR	chr2	30346	-4.67462	up	5.00E-05
XLOC_003565	SLC44A5	chr1	408989	-4.66861	up	5.00E-05
XLOC_004341	PVRL4	chr1	19027	-4.60563	up	5.00E-05
XLOC_014770	SCEL	chr13	117528	-4.59741	up	5.00E-05
XLOC_024820	FAM20A	chr17	70751	-4.54228	up	5.00E-05
XLOC_006145	COL13A1	chr10	163219	-4.48171	up	5.00E-05
XLOC_021620	SEZ6L2	chr16	28448	-4.47733	up	5.00E-05
XLOC_023261	ABCC3	chr17	57631	-4.43376	up	5.00E-05
XLOC_039819	CLDN1	chr3	26015	-4.42247	up	5.00E-05
XLOC_032946	NGEF	chr2	134593	-4.40681	up	5.00E-05
XLOC_054532	KCNQ3	chr8	360180	-4.36068	up	5.00E-05
XLOC_017551	SERPINA1	chr14	14127	-4.33325	up	5.00E-05
XLOC_006202	PLAU	chr10	9079	-4.26223	up	5.00E-05
XLOC_051844	PLXNA4	chr7	525357	-4.17138	up	5.00E-05
XLOC_026845	FAM129C	chr19	30539	-4.0928	up	5.00E-05
XLOC_002924	CAMK2N1	chr1	5113	-4.03117	up	5.00E-05
XLOC_038939	ADAMTS9	chr3	172586	-3.98579	up	5.00E-05
XLOC_051548	TMEM130	chr7	24285	-3.94773	up	5.00E-05
XLOC_040170	DOK7	chr4	40289	-3.91513	up	5.00E-05
XLOC_035369	TIAM1	chr21	441733	-3.83922	up	5.00E-05
XLOC_024306	SRCIN1	chr17	75933	-3.83692	up	5.00E-05
XLOC_026657	ICAM5	chr19	7731	-3.79852	up	5.00E-05
XLOC_034553	SLPI	chr20	2326	-3.67382	up	5.00E-05
XLOC_049378	SDK1	chr7	967796	-3.64509	up	5.00E-05
XLOC_021285	PKMYT1	chr16	12516	-3.5836	up	5.00E-05
XLOC_018205	SCG5	chr15	55423	-3.54695	up	5.00E-05
XLOC_056190	CDKN2A	chr9	27550	-3.48257	up	5.00E-05
XLOC_020146	BAIAP3	chr16	15838	-3.47933	up	5.00E-05
XLOC_047594	ADTRP	chr6	95842	-3.47554	up	5.00E-05
XLOC_023385	MRC2	chr17	69051	-3.46304	up	5.00E-05
XLOC_001697	CD1E	chr1	4092	-3.45394	up	5.00E-05

XLOC_005953	ALOX5	chr10	71940	-3.4252	up	5.00E-05
XLOC_052443	TUSC3	chr8	369522	-3.38637	up	5.00E-05
XLOC_007309	SPOCK2	chr10	36749	-3.38007	up	5.00E-05
XLOC_027309	GIPR	chr19	15535	-3.37247	up	5.00E-05
XLOC_033030	PASK	chr2	44166	-3.33518	up	5.00E-05
XLOC_006538	DUSP5	chr10	20037	-3.33458	up	5.00E-05
XLOC_013971	TESC	chr12	60557	-3.32563	up	5.00E-05
XLOC_023859	AURKB	chr17	6629	-3.31349	up	5.00E-05
XLOC_029819	NCAPH	chr2	39170	-3.24819	up	5.00E-05
XLOC_024410	KRT19	chr17	7947	-3.22161	up	5.00E-05
XLOC_010485	SPTBN2	chr11	46934	-3.18793	up	5.00E-05
XLOC_045325	FSTL4	chr5	416139	-3.16952	up	5.00E-05
XLOC_046642	RUNX2	chr6	336356	-3.14833	up	5.00E-05
XLOC_059035	SHROOM4	chrX	238775	-3.11624	up	5.00E-05
XLOC_056884	TNC	chr9	98477	-3.08221	up	5.00E-05
XLOC_035715	CDC45	chr22	41683	-3.06417	up	5.00E-05
XLOC_002972	GALE	chr1	5271	-3.06278	up	5.00E-05
XLOC_012356	PLXNC1	chr12	159199	-3.05653	up	5.00E-05
XLOC_057804	TIMP1	chrX	12538	-3.05046	up	5.00E-05
XLOC_048078	PTCHD4	chr6	254660	-3.01055	up	5.00E-05
XLOC_051129	MYO1G	chr7	18204	-2.98653	up	5.00E-05
XLOC_008623	MDK	chr11	4373	-2.97545	up	5.00E-05
XLOC_023584	TMC8	chr17	13733	-2.93694	up	5.00E-05
XLOC_031619	TGFA	chr2	107028	-2.89722	up	5.00E-05
XLOC_040426	RHOH	chr4	56025	-2.86348	up	5.00E-05
XLOC_018313	NUSAP1	chr15	48468	-2.86134	up	5.00E-05
XLOC_058592	MAMLD1	chrX	152916	-2.83605	up	5.00E-05
XLOC_015167	POSTN	chr13	36263	-2.83333	up	5.00E-05
XLOC_032007	MALL	chr2	34472	-2.81309	up	5.00E-05
XLOC_031679	EVA1A	chr2	125114	-2.79203	up	5.00E-05
XLOC_035416	RUNX1	chr21	1217078	-2.76504	up	5.00E-05
XLOC_053962	PLAG1	chr8	51805	-2.71889	up	5.00E-05
XLOC_043910	TGFBI	chr5	35743	-2.68305	up	5.00E-05
XLOC_024331	CACNB1	chr17	24441	-2.55928	up	5.00E-05
XLOC_051996	EZH2	chr7	77087	-2.53612	up	5.00E-05
XLOC_041644	SEL1L3	chr4	116415	-2.53121	up	5.00E-05
XLOC_046973	PRDM1	chr6	23650	-2.50252	up	5.00E-05
XLOC_045303	P4HA2	chr5	103810	-2.4896	up	5.00E-05
XLOC_031930	LONRF2	chr2	51922	-2.44802	up	5.00E-05
XLOC_017520	CCDC88C	chr14	146615	-2.44102	up	5.00E-05
XLOC_013215	NELL2	chr12	413665	-2.42317	up	5.00E-05
XLOC_008839	CD6	chr11	48775	-2.42017	up	5.00E-05
XLOC_026849	FCHO1	chr19	40851	-2.39784	up	5.00E-05
XLOC_052682	C8orf4	chr8	3607	-2.38434	up	5.00E-05
XLOC_000434	SYTL1	chr1	12197	-2.37873	up	5.00E-05

XLOC_009645	NTM	chr11	970275	-2.34091	up	5.00E-05
XLOC_021289	CCDC64B	chr16	9280	-2.29827	up	5.00E-05
XLOC_049482	HDAC9	chr7	918140	-2.28968	up	5.00E-05
XLOC_009513	POU2F3	chr11	84755	-2.28908	up	5.00E-05
XLOC_034555	SDC4	chr20	23203	-2.19265	up	5.00E-05
XLOC_050294	MET	chr7	126631	-2.15547	up	5.00E-05
XLOC_011880	TROAP	chr12	8520	-2.1489	up	5.00E-05
XLOC_039057	PROS1	chr3	101033	-2.1418	up	5.00E-05
XLOC_015227	TSC22D1	chr13	146918	-2.13579	up	5.00E-05
XLOC_024614	COL1A1	chr17	18344	-2.09885	up	5.00E-05
XLOC_046456	HLA-DRA	chr6	6233	-2.08949	up	5.00E-05
XLOC_019703	CTSH	chr15	28517	-2.02341	up	5.00E-05
XLOC_024329	PLXDC1	chr17	91180	-2.01962	up	5.00E-05
XLOC_010754	CTSC	chr11	44196	-2.00183	up	5.00E-05
XLOC_042263	PDE5A	chr4	157433	-1.99909	up	5.00E-05
XLOC_016206	LGALS3	chr14	23975	-1.88335	up	5.00E-05
XLOC_058660	PLXNA3	chrX	19935	-1.85162	up	5.00E-05
XLOC_042198	CFI	chr4	61489	-1.83968	up	5.00E-05
XLOC_052525	ADAM28	chr8	167672	-1.82886	up	5.00E-05
XLOC_052546	PTK2B	chr8	147912	-1.81501	up	5.00E-05
XLOC_017607	WARS	chr14	43044	-1.81293	up	5.00E-05
XLOC_046429	LST1	chr6	2786	-1.80418	up	5.00E-05
XLOC_055800	PBX3	chr9	221993	-1.78089	up	5.00E-05
XLOC_013007	ARHGDIB	chr12	19858	-1.76947	up	5.00E-05
XLOC_023705	ABR	chr17	226239	-1.76441	up	5.00E-05
XLOC_046365	HLA-A	chr6	4727	-1.7355	up	5.00E-05
XLOC_002935	ECE1	chr1	128450	-1.71447	up	5.00E-05
XLOC_037577	COL8A1	chr3	161800	-1.70011	up	5.00E-05
XLOC_053716	CLU	chr8	18236	-1.6918	up	5.00E-05
XLOC_029665	TMSB10	chr2	1736	-1.67899	up	5.00E-05
XLOC_050087	COL1A2	chr7	36672	-1.67526	up	5.00E-05
XLOC_039312	PLXND1	chr3	52951	-1.64014	up	5.00E-05
XLOC_036914	BHLHE40	chr3	9577	-1.61973	up	5.00E-05
XLOC_049921	AUTS2	chr7	1195089	-1.54678	up	5.00E-05
XLOC_031747	ST3GAL5	chr2	50233	-1.52185	up	5.00E-05
XLOC_021965	FHOD1	chr16	19521	-1.48288	up	5.00E-05
XLOC_011763	BICD1	chr12	277931	-1.40638	up	5.00E-05
XLOC_008539	CD44	chr11	94670	-1.29159	up	5.00E-05
XLOC_027201	PLD3	chr19	31984	-1.23436	up	5.00E-05
XLOC_056549	ALDH1A1	chr9	179781	1.61839	down	5.00E-05
XLOC_030961	MLPH	chr2	72036	1.73479	down	5.00E-05
XLOC_040339	SOD3	chr4	10931	1.79621	down	5.00E-05
XLOC_036200	FBLN1	chr22	98992	1.85077	down	5.00E-05
XLOC_030045	PCDP1	chr2	117820	1.85114	down	5.00E-05
XLOC_031482	EFEMP1	chr2	58219	1.85698	down	5.00E-05

XLOC_050231	CDHR3	chr7	159649	1.89688	down	5.00E-05
XLOC_020795	MT1F	chr16	9323	2.11309	down	5.00E-05
XLOC_021580	NUPR1	chr16	2348	2.12257	down	5.00E-05
XLOC_013722	DCN	chr12	37876	2.21009	down	5.00E-05
XLOC_010039	MPPED2	chr11	205663	2.34979	down	5.00E-05
XLOC_021956	CDH16	chr16	11070	2.62567	down	5.00E-05
XLOC_054074	EYA1	chr8	164800	2.64255	down	5.00E-05
XLOC_002494	RYR2	chr1	794360	2.89382	down	5.00E-05
XLOC_017218	SLC35F4	chr14	418327	3.27284	down	5.00E-05
XLOC_016778	TDRD9	chr14	124208	3.39354	down	5.00E-05
XLOC_040812	MMRN1	chr4	75098	3.55863	down	5.00E-05
XLOC_035214	LIPI	chr21	104598	4.79955	down	5.00E-05
