

TableS1

	logFC	AveExpr	t	P.Value	adj.P.Val	B
REG4	-2.89305	9.544579	-10.3958	2.54E-22	1.36E-20	39.94666
AGR3	-2.22871	8.930969	-10.9863	2.01E-24	1.55E-22	44.71442
RAB27B	-2.21023	7.441571	-18.7192	3.74E-55	3.78E-51	114.5799
SDR16C5	-1.93035	7.014166	-11.2219	2.82E-25	2.61E-23	46.6533
TCN1	-1.85682	6.82317	-8.0745	1.02E-14	1.59E-13	22.73306
ADGRG6	-1.81989	5.926502	-13.1979	9.78E-33	3.18E-30	63.60526
PLA2G4A	-1.74405	5.838875	-11.0824	9.05E-25	7.39E-23	45.5033
SERPINB5	-1.74357	8.309643	-10.3099	5.07E-22	2.56E-20	39.26488
TFAP2A	-1.68171	5.454897	-14.3163	3.82E-37	3.85E-34	73.6291
SPINK4	-1.6136	8.776745	-6.02826	4.09E-09	2.8E-08	10.13577
CTSE	-1.6044	6.838898	-8.63198	1.95E-16	3.98E-15	26.61605
FCGBP	-1.5128	8.392687	-6.18299	1.7E-09	1.23E-08	10.9883
SLCO1B3	-1.51128	5.320374	-7.41524	8.71E-13	1.01E-11	18.37615
CEL	2.318585	6.344262	11.00726	1.69E-24	1.32E-22	44.88636
KRT23	2.273736	6.615432	11.31859	1.25E-25	1.21E-23	47.45513
SLC26A3	2.009392	7.150588	6.769677	5.23E-11	4.72E-10	14.37666
RUBCNL	1.970377	7.778101	11.50744	2.53E-26	2.72E-24	49.02982
MYH11	1.903204	9.221218	12.49919	4.81E-30	1.02E-27	57.48486
REEP1	1.818463	5.619698	13.31041	3.56E-33	1.28E-30	64.60204
SFRP4	1.795291	6.513059	9.925614	1.08E-20	4.36E-19	36.25196
ACTG2	1.779983	8.945612	10.62032	4.1E-23	2.49E-21	41.74358
SYNPO2	1.739943	7.393695	10.03367	4.6E-21	1.98E-19	37.0927
MAB21L2	1.722769	6.322637	10.22402	1.01E-21	4.79E-20	38.58598
QPRT	1.716562	8.009988	14.22605	8.75E-37	8.4E-34	72.81106
MYL9	1.69783	8.841805	13.2943	4.12E-33	1.46E-30	64.45914
SYNM	1.683323	6.703974	9.581713	1.58E-19	5.33E-18	33.61124
CXCL14	1.670459	9.064356	8.034439	1.34E-14	2.05E-13	22.46085
MGP	1.656094	9.050951	11.71153	4.45E-27	5.61E-25	50.74498
SFRP2	1.653999	8.028507	6.707321	7.65E-11	6.77E-10	14.0051
EREG	1.634361	6.213049	8.184156	4.74E-15	7.72E-14	23.48295
CNN1	1.62866	7.581827	11.09771	7.96E-25	6.58E-23	45.62909
FBLN1	1.59999	7.729346	15.15657	1.61E-40	3.25E-37	81.30397
TNS1	1.546248	8.365228	11.39836	6.38E-26	6.43E-24	48.11884
EPDR1	1.542739	7.678185	12.41607	9.98E-30	2.03E-27	56.7652
CES1	1.538057	6.394436	11.92582	7.07E-28	1.06E-25	52.56029
GNG4	1.537407	6.13266	11.66709	6.51E-27	7.92E-25	50.37042
CELP	1.526216	5.726344	11.74547	3.33E-27	4.28E-25	51.03158
DES	1.517898	6.931006	8.655929	1.64E-16	3.4E-15	26.78676
TAGLN	1.517533	10.54894	11.50978	2.48E-26	2.68E-24	49.04946

TableS2

	logFC	AveExpr	t	P.Value	adj.P.Val	B
SFRP2	2.281532	7.503002	12.9151	1.14E-33	8.33E-32	65.6499
GAS1	1.912562	6.100004	14.48789	9.45E-41	1.42E-38	81.79933
MGP	1.7559	8.785936	17.98391	1.17E-57	3.37E-54	120.3918
ASPN	1.750579	7.513244	14.70145	9.64E-42	1.65E-39	84.0607
SFRP4	1.693257	6.172424	12.20063	1.35E-30	7.74E-29	58.64495
FND1	1.686221	5.543073	14.49509	8.75E-41	1.33E-38	81.87532

TNS1	1.646758	8.093194	18.12185	2.38E-58	9.59E-55	121.9701
COL8A1	1.628395	7.395437	13.4428	5.32E-36	4.81E-34	70.96301
CCDC80	1.626153	6.430752	15.9844	7.99E-48	3.29E-45	97.93965
THBS2	1.621661	8.185149	13.01624	4.11E-34	3.15E-32	66.65942
TAGLN	1.607047	10.22435	17.13876	1.86E-53	2.06E-50	110.7977
MAB21L2	1.568841	6.102136	13.25097	3.79E-35	3.16E-33	69.01854
GREM1	1.566209	8.225272	11.95284	1.49E-29	7.72E-28	56.26962
PLN	1.536239	6.188601	13.19618	6.63E-35	5.41E-33	68.46584
ACTG2	1.531185	8.751055	12.57137	3.53E-32	2.29E-30	62.25178
SYNPO2	1.512935	7.26485	12.28714	5.8E-31	3.42E-29	59.48101
CTHRC1	1.510758	9.084055	12.28846	5.72E-31	3.39E-29	59.49385
CNN1	1.504374	7.281841	14.22626	1.52E-39	2.04E-37	79.04974
SPOCK1	1.501333	6.457401	13.8829	5.58E-38	5.95E-36	75.47777

TableS3

	logFC	AveExpr	t	P.Value	adj.P.Val	B
SFRP2	2.982962	8.138403	11.85971	3.53E-26	2.47E-24	48.74126
SFRP4	2.648856	6.599418	13.699	1.85E-32	2.99E-30	63.0499
MGP	2.565794	9.114312	18.13977	6.02E-48	2.43E-44	98.35139
MYH11	2.527259	9.386122	14.37553	8.31E-35	1.88E-32	68.40317
SYNPO2	2.513658	7.555737	12.57871	1.31E-28	1.18E-26	54.27957
ACTG2	2.510625	9.074209	13.22823	7.81E-31	9.84E-29	59.34722
MAB21L2	2.496191	6.504461	13.17977	1.15E-30	1.43E-28	58.96736
MYL9	2.465313	8.904893	18.54524	2.37E-49	1.19E-45	101.5516
ASPN	2.444509	7.826866	14.03875	1.23E-33	2.3E-31	65.73422
TNS1	2.408772	8.4468	17.96446	2.44E-47	8.22E-44	96.96469
CNN1	2.376003	7.729871	14.45466	4.4E-35	1.03E-32	69.0313
SYNM	2.368903	6.92223	11.45845	7.71E-25	4.44E-23	45.69076
TAGLN	2.335206	10.59256	17.74069	1.47E-46	4.23E-43	95.19212
FNDC1	2.32589	5.937008	13.96241	2.27E-33	4.12E-31	65.13029
COL8A1	2.268456	7.665204	13.4183	1.73E-31	2.44E-29	60.8395
THBS2	2.223254	8.520164	13.05283	3.13E-30	3.71E-28	57.97353
PLN	2.219133	6.56376	11.59402	2.73E-25	1.69E-23	46.71784
DES	2.179587	7.100664	10.55195	7.2E-22	2.96E-20	38.93107
GAS1	2.16418	6.671086	10.7916	1.2E-22	5.53E-21	40.69845
MYLK	2.144231	9.710214	16.60159	1.38E-42	1.27E-39	86.13603
CCDC80	2.143942	6.840307	14.11671	6.6E-34	1.31E-31	66.35141
PTGIS	2.137627	7.27822	14.98894	6.03E-37	2.03E-34	73.27969
FBLN1	2.115296	7.792026	19.3952	2.79E-52	2.81E-48	108.2231
CEL	2.059628	6.507292	7.619777	4.86E-13	6.55E-12	18.89817
EFEMP1	1.995306	8.060134	14.51422	2.73E-35	6.72E-33	69.50425
APOD	1.969551	6.998489	12.07775	6.52E-27	4.91E-25	50.4116
GREM1	1.968373	8.50667	10.06529	2.59E-20	8.97E-19	35.39131
KRT23	1.961534	6.654159	7.849719	1.12E-13	1.65E-12	20.33806
COMP	1.96079	5.764758	11.34977	1.77E-24	9.82E-23	44.8702
REEP1	1.95867	5.785745	11.77111	6.99E-26	4.62E-24	48.06498
TPM2	1.950739	9.055753	15.41933	1.89E-38	8.92E-36	76.70887
C3	1.929467	9.346754	12.89376	1.1E-29	1.17E-27	56.73096
ZCCHC24	1.922175	7.561709	19.93066	4.09E-54	8.25E-50	112.3966
LMOD1	1.916857	6.645059	14.3912	7.33E-35	1.68E-32	68.52753

IGFBP5	1.907711	9.25096	14.93359	9.41E-37	3.06E-34	72.83901
LINC01279	1.902436	5.957541	12.34994	7.83E-28	6.5E-26	52.50834
SPOCK1	1.892908	6.825311	11.38861	1.31E-24	7.47E-23	45.16318
TIMP3	1.891612	8.932581	15.2282	8.79E-38	3.48E-35	75.18548
AKAP12	1.889976	7.596456	12.64686	7.66E-29	7.18E-27	54.80868
AOC3	1.859539	6.601324	14.74707	4.21E-36	1.27E-33	71.3549
FN1	1.857162	11.26067	12.51367	2.18E-28	1.92E-26	53.7752
FERMT2	1.851961	8.01718	14.70727	5.8E-36	1.7E-33	71.03845
GUCY1A1	1.825153	7.554359	15.29822	5E-38	2.15E-35	75.74353
COL14A1	1.816162	6.03061	14.55584	1.96E-35	4.99E-33	69.83481
MRGPRF	1.812405	6.239655	15.6848	2.22E-39	1.32E-36	78.8257
PCDH7	1.810919	5.740792	11.11582	1.05E-23	5.37E-22	43.11278
FHL1	1.800539	8.390034	13.37504	2.44E-31	3.34E-29	60.4995
COL11A1	1.798927	7.529216	7.904611	7.87E-14	1.18E-12	20.68567
RUBCNL	1.798429	7.840241	8.614594	7.15E-16	1.4E-14	25.30903
SERPINF1	1.797142	9.133268	15.94697	2.69E-40	1.94E-37	80.91668
EREG	1.796988	6.170052	7.462251	1.31E-12	1.65E-11	17.92733
ANTXR1	1.796328	9.021678	13.80897	7.71E-33	1.3E-30	63.91775
OGN	1.767683	4.525702	9.860095	1.15E-19	3.61E-18	33.92026
ACTA2	1.767523	11.32468	18.99104	6.84E-51	4.6E-47	105.0575
ISLR	1.756238	6.957737	14.23558	2.55E-34	5.47E-32	67.29322
FXYD6	1.751866	7.188516	17.34666	3.46E-45	6.97E-42	92.0651
CRYAB	1.743567	6.916108	16.61833	1.21E-42	1.16E-39	86.26939
CHRD1	1.743297	5.487131	10.06773	2.55E-20	8.83E-19	35.40891
CES1	1.742851	6.46136	10.95522	3.52E-23	1.71E-21	41.9136
MMP2	1.737306	9.722282	15.30991	4.56E-38	2E-35	75.83664
FIBIN	1.735664	6.835378	15.27099	6.23E-38	2.62E-35	75.52651
FBN1	1.729462	8.657065	14.62885	1.09E-35	2.93E-33	70.41499
OLFML3	1.725371	7.388126	16.15652	4.98E-41	3.72E-38	82.58792
COL6A2	1.723941	9.249124	14.1957	3.51E-34	7.22E-32	66.97716
HSPB8	1.714407	6.315757	12.60392	1.07E-28	9.79E-27	54.4752
NTM	1.714308	6.732815	10.15057	1.39E-20	5.03E-19	36.00656
SPARCL1	1.712647	9.099785	14.23429	2.58E-34	5.47E-32	67.283
C1S	1.695489	9.895098	16.71079	5.73E-43	6.43E-40	87.00598
AEBP1	1.689288	8.461054	13.97553	2.04E-33	3.74E-31	65.23403
PDLIM3	1.685151	7.416413	15.49892	9.94E-39	4.95E-36	77.3434
MEIS1	1.68491	6.01119	13.33784	3.27E-31	4.34E-29	60.20735
DCN	1.673346	10.69295	14.18577	3.8E-34	7.74E-32	66.89849
DPYSL3	1.657125	7.824863	13.57607	4.93E-32	7.48E-30	62.08093
COL5A1	1.655148	9.032897	13.53556	6.81E-32	9.95E-30	61.76194
TNC	1.64595	8.29838	9.620102	6.46E-19	1.85E-17	32.21709
CTHRC1	1.643291	9.420157	9.292864	6.59E-18	1.67E-16	29.92683
KCNMB1	1.639447	6.181107	12.2909	1.24E-27	1.01E-25	52.0525
COL10A1	1.635185	6.915796	7.816825	1.38E-13	2.01E-12	20.13045
SULF1	1.612805	9.479259	10.84935	7.8E-23	3.67E-21	41.1266
BGN	1.611155	8.00753	12.64305	7.89E-29	7.37E-27	54.77904
TAC1	1.610411	3.988357	8.654516	5.45E-16	1.09E-14	25.57565
SERPING1	1.60773	7.95693	13.27644	5.33E-31	6.93E-29	59.72539
ZEB1	1.598488	7.261848	12.15874	3.47E-27	2.64E-25	51.03423
C1R	1.596152	8.982998	17.01871	4.82E-44	6.07E-41	89.45755

VCAN	1.59198	9.683743	12.99433	4.96E-30	5.72E-28	57.51624
PGM5	1.591293	5.604201	8.373889	3.61E-15	6.42E-14	23.71599
MAP1B	1.586177	6.4311	13.73943	1.34E-32	2.22E-30	63.3688
NDN	1.583663	6.795643	16.46561	4.13E-42	3.62E-39	85.05232
ADAM12	1.582617	6.297666	8.866342	1.28E-16	2.81E-15	27.00152
DDR2	1.580951	7.642829	14.14764	5.15E-34	1.04E-31	66.59639
HOPX	1.580526	7.56657	10.42586	1.83E-21	7.28E-20	38.00745
PPP1R14A	1.580064	5.601588	13.34564	3.08E-31	4.11E-29	60.26862
TIMP2	1.579823	10.13915	15.59986	4.41E-39	2.38E-36	78.14832
DMD	1.579445	5.439456	10.76816	1.43E-22	6.51E-21	40.52494
MFAP5	1.572966	6.255584	10.10266	1.97E-20	6.96E-19	35.66066
TMEM47	1.57239	7.321581	11.82145	4.74E-26	3.24E-24	48.44901
RUNX1T1	1.570091	5.515445	14.07698	9.07E-34	1.74E-31	66.03684
MIR100HG	1.559847	4.291066	11.05561	1.65E-23	8.3E-22	42.66249
MXRA5	1.558462	8.968166	11.49212	5.96E-25	3.49E-23	45.94551
MRVI1	1.556508	7.843495	17.23858	8.23E-45	1.28E-41	91.20615
SMOC2	1.538446	7.347064	7.957803	5.58E-14	8.59E-13	21.02393
SDC2	1.530047	7.666799	13.94109	2.69E-33	4.8E-31	64.96172
EPDR1	1.522336	7.749761	10.09086	2.15E-20	7.55E-19	35.57555
GJC1	1.521975	5.913402	13.23594	7.34E-31	9.32E-29	59.40766
TUBB6	1.520646	8.173868	15.24678	7.57E-38	3.12E-35	75.33353
AQP1	1.516142	7.408365	12.52662	1.97E-28	1.74E-26	53.87558
PCP4	1.513479	5.194552	8.135482	1.75E-14	2.84E-13	22.16365
RARRES2	1.513334	8.563874	14.50022	3.06E-35	7.25E-33	69.39305
PPP1R3C	1.512926	5.253007	13.92806	2.98E-33	5.27E-31	64.85868
RBMS1	1.512008	8.271979	15.2239	9.1E-38	3.53E-35	75.15121
COL15A1	1.510223	9.014701	11.80963	5.19E-26	3.53E-24	48.35879
NNMT	1.509893	9.219132	12.5382	1.8E-28	1.6E-26	53.96536
MFAP4	1.507529	6.155167	15.92907	3.11E-40	2.16E-37	80.77389
LHFPL6	1.505933	7.002667	15.56394	5.89E-39	3.05E-36	77.86191
WWTR1	1.505047	8.098097	10.85412	7.53E-23	3.55E-21	41.16198
REG4	-3.4188	9.338702	-10.2533	6.54E-21	2.43E-19	36.75064
AGR3	-2.56069	8.873468	-10.8295	9.06E-23	4.24E-21	40.97898
RAB27B	-2.20956	7.386044	-15.0624	3.34E-37	1.16E-34	73.8643
FCGBP	-2.19668	8.361627	-7.63335	4.46E-13	6.05E-12	18.98239
SPINK4	-2.16042	8.630281	-6.7306	1.09E-10	1.05E-09	13.59521
TCN1	-2.13365	6.71218	-8.01002	3.97E-14	6.21E-13	21.35729
MUC2	-2.08564	9.072001	-7.50395	1.01E-12	1.29E-11	18.18306
SDR16C5	-1.95092	6.94895	-9.23867	9.64E-18	2.4E-16	29.55125
SERPINB5	-1.84307	8.163634	-8.59412	8.21E-16	1.59E-14	25.17253
TNFRSF11A	-1.82604	7.464733	-11.9492	1.77E-26	1.28E-24	49.42594
CLCA1	-1.76179	7.994022	-4.63873	5.58E-06	2.49E-05	3.082475
HEPACAM3	-1.7607	5.99279	-6.20332	2.19E-09	1.76E-08	10.66807
REG1A	-1.74852	8.049481	-4.63323	5.72E-06	2.55E-05	3.058989
C2CD4A	-1.67254	7.355595	-9.90082	8.57E-20	2.73E-18	34.21118
SMIM31	-1.64583	6.464383	-9.42262	2.64E-18	7.02E-17	30.83042
ITLN1	-1.62621	7.434112	-4.96644	1.24E-06	6.21E-06	4.524496
ADGRG6	-1.60777	5.828422	-9.37802	3.61E-18	9.48E-17	30.51914
CTSE	-1.60681	6.702314	-7.28778	3.85E-12	4.52E-11	16.86732
L1TD1	-1.60207	6.156143	-6.60153	2.31E-10	2.13E-09	12.86295

PLA2G4A	-1.58941	5.812257	-8.448	2.2E-15	4.02E-14	24.2038
TFAP2A	-1.57957	5.421921	-11.1214	1E-23	5.16E-22	43.15488
ST6GALNA	-1.55928	8.870691	-7.17707	7.59E-12	8.57E-11	16.20328
LINC00261	-1.5313	6.856864	-7.48123	1.16E-12	1.47E-11	18.04359
PIGR	-1.52004	11.34602	-5.16533	4.81E-07	2.58E-06	5.439156
TFF1	-1.51885	10.39573	-6.04863	5.11E-09	3.85E-08	9.842562