

Supplemental Tables

Clevenger, MH, *et al.* Suprabasal cells retaining stem cell identity programs drive basal cell hyperplasia in Eosinophilic Esophagitis

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Supplemental Table 1. Genes included in the quiescent gene signature.

	p_val	avg_log2FC	pct.1	pct.2	p_val_adj
DST	0	2.829762397	0.937	0.211	0
KRT15	0	2.749389646	1	0.685	0
KRT19	0	2.027514439	0.99	0.662	0
GAS5	0	1.991027262	0.727	0.641	0
CXCL14	0	1.930840409	0.497	0.095	0
MIR205HG	0	1.681103048	0.728	0.686	0
TXNIP	0	1.679755517	0.787	0.396	0
IL1R2	0	1.641511831	0.619	0.063	0
IL18	0	1.616816891	0.9	0.729	0
ZFP36L2	0	1.608479362	0.823	0.526	0
IFITM3	0	1.606175204	0.858	0.54	0
GPNMB	0	1.602788604	0.741	0.217	0
CAV1	0	1.57258403	0.693	0.127	0
IGFBP5	0	1.564140033	0.586	0.14	0
GPX4	0	1.556344306	0.955	0.852	0
MT-ND2	0	1.541729919	0.95	0.884	0
COL17A1	0	1.504913141	0.68	0.1	0
MALAT1	0	1.497386787	0.975	0.92	0
TSLP	0	1.492823424	0.61	0.088	0
FOS	0	1.469149928	0.977	0.939	0
FTH1	0	1.451440638	0.972	0.929	0
SLC3A2	0	1.428585636	0.811	0.576	0
MT-ND1	0	1.425711156	0.953	0.891	0
MT-ND3	0	1.409695337	0.967	0.922	0
MT-CYB	0	1.374772617	0.979	0.933	0
ATF3	0	1.369038577	0.828	0.673	0
ATP1B3	0	1.315243129	0.871	0.741	0
MT-ATP6	0	1.308089875	0.969	0.922	0
SNHG8	0	1.296775833	0.926	0.798	0
FHL2	0	1.288653373	0.659	0.194	0
MT-CO3	0	1.262818148	0.977	0.944	0
RPL34	0	1.252450795	1	0.994	0
C12orf57	0	1.251320924	0.864	0.712	0
ZFAS1	0	1.239408574	0.965	0.911	0
CH25H	0	1.196781019	0.496	0.051	0
DLK2	0	1.177325313	0.524	0.032	0
NOP53	0	1.162744015	0.822	0.724	0
MT-ND5	0	1.162255222	0.889	0.81	0
SNHG7	0	1.141464301	0.756	0.639	0
ASS1	0	1.110706576	0.554	0.123	0
TSC22D1	0	1.091835855	0.546	0.305	0
NAP1L1	0	1.090727748	0.812	0.664	0
CD81	0	1.085738797	0.753	0.571	0
NPR3	0	1.085345049	0.547	0.171	0
CTNNAL1	0	1.0784772	0.52	0.054	0

THSD4	0	1.075858062	0.567	0.254	0
SNHG29	0	1.070984512	0.734	0.772	0
EEF1D	0	1.069898077	0.98	0.945	0
RPS27	0	1.058941417	1	0.994	0
WNT4	0	1.051182329	0.588	0.419	0
CIRBP	0	1.048393598	0.85	0.799	0
RACK1	0	1.044522976	1	0.99	0
MT-ND4	0	1.044313515	0.963	0.917	0
LAMB3	0	1.044175468	0.558	0.166	0
RPL10	0	1.04270105	1	0.998	0
RPL30	0	1.041514408	1	0.993	0
ITGB1	0	1.038297217	0.623	0.389	0
RPL5	0	1.027958819	1	0.992	0
LIMA1	0	1.019869097	0.605	0.379	0
EPB41L4A-AS1	0	1.015005509	0.646	0.384	0
RPS9	0	0.997767959	1	0.993	0
SLC1A3	0	0.989165554	0.48	0.093	0
RPL13	0	0.986841391	1	0.998	0
SLC7A1	0	0.985424125	0.624	0.378	0
RPS4X	0	0.977786324	1	0.997	0
SLC7A5	0	0.959832268	0.522	0.109	0
RPL12	0	0.954870183	1	0.996	0
APP	0	0.934912332	0.515	0.196	0
RPS3	0	0.933890118	1	0.996	0
EIF3E	0	0.929264383	0.951	0.911	0
ARPC1B	0	0.92852849	0.531	0.218	0
RPL35A	0	0.926635559	1	0.992	0
RPS5	0	0.917666457	1	0.991	0
MT-CO1	0	0.910015039	0.988	0.958	0
RPLP1	0	0.907581937	1	0.999	0
NPM1	0	0.900359763	0.99	0.957	0
RPL37	0	0.895612447	1	0.995	0
RPL10A	0	0.894123777	1	0.991	0
PDLIM1	0	0.892139816	0.832	0.788	0
MTRNR2L8	0	0.887226548	0.519	0.487	0
RPS19	0	0.884909432	1	0.997	0
JUNB	0	0.884094259	0.855	0.863	0
TP53AIP1	0	0.88224727	0.539	0.237	0
MT2A	0	0.876672684	0.81	0.535	0
TIMP1	0	0.87575402	0.462	0.104	0
RPS21	0	0.873160764	0.998	0.988	0
HNRNPA1	0	0.872899675	0.92	0.885	0
RPL3	0	0.869343675	1	0.996	0
PNRC1	0	0.852584474	0.736	0.703	0
RPS15A	0	0.84947814	1	0.992	0
MT-ND4L	0	0.849387461	0.61	0.566	0
RPL18A	0	0.845159597	1	0.996	0

BTF3	0	0.843251407	0.996	0.977	0
RPL11	0	0.841695911	1	0.997	0
KTN1	0	0.83970417	0.826	0.813	0
RPL19	0	0.839507184	1	0.996	0
POLR1D	0	0.839246533	0.838	0.823	0
MT-CO2	0	0.836466386	0.987	0.961	0
EGR1	0	0.835157992	0.808	0.764	0
RPL32	0	0.833150593	1	0.998	0

Supplemental Table 2. Genes included in the superficial gene signature.

	p_val	avg_log2FC	pct.1	pct.2	p_val_adj
CRCT1	0	6.663212	0.998	0.407	0
CNFN	0	5.997242	1	0.526	0
KRT78	0	5.298534	0.994	0.27	0
SPRR2D	0	5.277972	0.848	0.364	0
LYPD2	0	5.240213	0.992	0.242	0
FAM25A	0	5.213557	0.968	0.284	0
ECM1	0	5.109232	0.998	0.372	0
MT1G	0	5.034033	0.678	0.372	0
SPINK7	0	4.961649	0.939	0.18	0
SPRR2A	0	4.84788	0.952	0.567	0
TMPRSS11l	0	4.762629	0.995	0.135	0
FTH1	0	4.539188	0.999	0.952	0
MAL	0	4.438548	1	0.571	0
HOPX	0	4.340964	0.997	0.708	0
CRISP3	0	4.325306	0.977	0.083	0
FLG	0	4.244267	0.598	0.052	0
C15orf48	0	4.127274	0.971	0.131	0
LCN2	0	4.051988	0.973	0.343	0
ERO1A	0	4.01261	0.981	0.314	0
SPRR2E	0	3.96558	0.749	0.288	0
CRNN	0	3.951264	0.999	0.386	0
EMP1	0	3.933291	0.999	0.692	0
PSCA	0	3.913357	0.941	0.127	0
S100P	0	3.784702	0.879	0.116	0
MUC21	0	3.777149	0.994	0.282	0
ADIRF	0	3.759468	0.97	0.538	0
SPRR3	0	3.743638	1	0.859	0
PHLDA1	0	3.551732	0.941	0.11	0
PRSS27	0	3.295138	0.983	0.179	0
SCEL	0	3.236097	0.99	0.397	0
MXD1	0	3.197818	0.97	0.203	0
TGM3	0	3.127514	0.988	0.308	0
CYSRT1	0	3.101654	0.981	0.343	0
TMPRSS11l	0	3.0563	0.976	0.197	0
C4orf3	0	3.050302	0.993	0.75	0
PPL	0	2.852725	0.987	0.475	0
MT2A	0	2.842034	0.718	0.718	0
MT1H	0	2.835812	0.356	0.113	0
LMO7	0	2.834769	0.954	0.297	0
AIF1L	0	2.79036	0.942	0.117	0
SPRR1B	0	2.708646	0.809	0.324	0
CSTB	0	2.708364	1	0.949	0
SAMD9	0	2.691807	0.944	0.317	0
SLURP2	0	2.682477	0.855	0.289	0
NCCRP1	0	2.681409	0.976	0.211	0

CAMK2N1	0	2.669605	0.91	0.027	0
TTC9	0	2.669186	0.948	0.196	0
EPS8L1	0	2.658087	0.956	0.113	0
SPINK5	0	2.627968	0.999	0.692	0
PPDPF	0	2.562754	0.997	0.881	0
TIMP2	0	2.549921	0.855	0.033	0
RNASE7	0	2.530436	0.533	0.024	0
IL1RN	0	2.528854	0.993	0.576	0
NIBAN2	0	2.474299	0.818	0.354	0
DUSP5	0	2.450672	0.845	0.114	0
SAT1	0	2.424409	0.988	0.789	0
MT1M	0	2.422127	0.292	0.094	0
S100A9	0	2.421643	1	0.921	0
MYL12A	0	2.318397	0.99	0.844	0
IL18	0	2.30016	0.983	0.784	0
MUC1	0	2.283834	0.792	0.071	0
TMOD3	0	2.271593	0.974	0.598	0
C6orf132	0	2.250125	0.957	0.427	0
FAM3D	0	2.238508	0.9	0.195	0
ELF3	0	2.224858	0.957	0.465	0
KRT17	0	2.208477	0.553	0.312	0
SH3BGRL2	0	2.205071	0.932	0.185	0
SPNS2	0	2.190006	0.836	0.033	0
KRT16	0	2.188358	0.754	0.32	0
A2ML1	0	2.17596	0.973	0.392	0
ANXA11	0	2.172568	0.972	0.567	0
MT1E	0	2.162944	0.577	0.616	0
H2AFJ	0	2.10223	0.976	0.626	0
GCHFR	0	2.049766	0.862	0.369	0
SFTA2	0	2.045811	0.877	0.094	0
HILPDA	0	2.042208	0.575	0.27	0
ADGRF1	0	1.991916	0.82	0.122	0
ANXA1	0	1.954987	1	0.969	0
MALL	0	1.943558	0.973	0.472	0
SLURP1	0	1.937649	0.918	0.313	0
RAB5IF	0	1.929411	0.949	0.625	0
LGALS3	0	1.929329	0.995	0.937	0
TAX1BP1	0	1.913211	0.967	0.576	0
CLIC3	0	1.869309	0.959	0.415	0
S100A8	0	1.853015	1	0.885	0
PRSS3	0	1.82896	0.862	0.093	0
CD59	0	1.819298	0.967	0.624	0
CST6	0	1.818308	0.878	0.119	0
GLUL	0	1.809864	0.676	0.435	0
HPGD	0	1.807315	0.912	0.383	0
KLK12	0	1.798359	0.635	0.175	0
DHRS9	0	1.786528	0.711	0.018	0

PLAC8	0	1.77181	0.734	0.2	0
TMEM40	0	1.741066	0.963	0.511	0
TPM4	0	1.723422	0.969	0.664	0
SNCG	0	1.687185	0.721	0.053	0
RIOK3	0	1.652756	0.952	0.626	0
YOD1	0	1.652293	0.693	0.078	0
SDCBP2	0	1.650459	0.91	0.32	0
CD24	0	1.63871	0.99	0.564	0

Supplemental Table 3. Genes corresponding to co-expressed modules along the EoE epithelial pseudotemporal trajectory.

gene	module	supermodule	dim_1	dim_2	status	p_value	morans_test_statistic	morans_l	q_value
1 AC020916.	1	1	1.63928	-2.4881	OK	0	251.3780328	0.254997	0
2 AC036176.	1	1	1.684324	-2.50395	OK	0	126.1473819	0.127956	0
3 ADH1C	1	1	0.319839	-3.03391	OK	0	106.8289895	0.108348	0
4 ADM	1	1	0.86305	-3.03058	OK	0	143.3322682	0.14539	0
5 APCDD1	1	1	0.538908	-2.4998	OK	0	158.4539216	0.160729	0
6 APOBEC3A	1	1	2.50802	-2.59125	OK	0	144.5728216	0.146645	0
7 AREG	1	1	2.392676	-2.62937	OK	0	257.2458014	0.260948	0
8 ASS1	1	1	0.560633	-2.9207	OK	0	346.705388	0.351697	0
9 BASP1	1	1	0.282518	-3.29634	OK	0	237.0933783	0.240497	0
10 BCAM	1	1	0.46836	-3.36526	OK	0	257.5000892	0.261195	0
11 BHLHE40	1	1	2.382114	-2.64325	OK	0	276.6513126	0.280635	0
12 BMP2	1	1	0.852944	-2.86915	OK	0	105.7401336	0.107248	0
13 BST2	1	1	-0.69009	-2.77002	OK	0	152.2795412	0.154464	0
14 BTG2	1	1	1.574787	-2.56325	OK	0	277.813387	0.281814	0
15 C1R	1	1	-0.58559	-2.93039	OK	0	251.4742279	0.255083	0
16 CALML3	1	1	1.173151	-1.42515	OK	0	361.5015277	0.366709	0
17 CASC19	1	1	0.111581	-2.18274	OK	0	142.600573	0.144643	0
18 CAV1	1	1	0.098602	-2.92218	OK	0	514.6421679	0.522061	0
19 CAVIN2	1	1	0.909655	-2.9257	OK	0	119.7009119	0.121415	0
20 CCDC80	1	1	0.513994	-2.90377	OK	0	139.6095003	0.141599	0
21 CCL20	1	1	1.002225	-2.64332	OK	9.37E-292	36.48564812	0.036995	9.48E-292
22 CCL4	1	1	1.999882	-4.15636	OK	3.79E-152	26.2477909	0.026607	3.81E-152
23 CCN1	1	1	0.771892	-2.91044	OK	0	197.8381453	0.200674	0
24 CCND1	1	1	0.636074	-1.77022	OK	0	362.9119658	0.368142	0
25 CCND2	1	1	0.367254	-2.54339	OK	0	234.2296091	0.237594	0
26 CD55	1	1	2.356376	-2.35135	OK	0	370.4750918	0.375815	0
27 CD74	1	1	-0.65505	-2.78553	OK	0	191.5775062	0.194331	0
28 CDKN1A	1	1	2.458907	-2.55973	OK	0	264.6479424	0.268459	0
29 CDKN2B	1	1	2.322522	-2.24507	OK	0	315.3491555	0.31989	0
30 CFB	1	1	-0.67255	-2.75234	OK	0	142.8735756	0.144923	0
31 CH25H	1	1	-0.30336	-2.86365	OK	0	243.1075023	0.246604	0
32 CLDN4	1	1	2.610722	-2.50706	OK	0	486.9148983	0.493936	0
33 CLEC2B	1	1	1.817906	-4.08178	OK	0	134.2228228	0.136149	0
34 CLU	1	1	-0.6151	-2.91825	OK	0	115.1698537	0.116815	0
35 COL17A1	1	1	0.254002	-2.50034	OK	0	547.7495959	0.555644	0
36 CRABP2	1	1	1.8071	-1.92574	OK	0	365.6871792	0.370953	0
37 CRIP1	1	1	1.011198	-1.6993	OK	0	152.03995	0.154224	0
38 CRIP2	1	1	1.081226	-1.48333	OK	0	139.583941	0.141587	0
39 CTNNA1	1	1	0.117453	-3.21299	OK	0	523.8488433	0.531391	0
40 CTSG	1	1	1.930303	-4.23015	OK	0	69.62924232	0.070602	0
41 CXCL14	1	1	1.252692	-1.56485	OK	0	277.1710439	0.281144	0
42 CXCL2	1	1	1.307683	-1.7498	OK	2.79E-184	28.92629484	0.029325	2.81E-184
43 CYP2E1	1	1	-0.54738	-2.79112	OK	0	67.68390842	0.068648	0
44 CYP3A5	1	1	1.863549	-2.0873	OK	0	103.0310223	0.104505	0
45 DLK2	1	1	0.40801	-3.39077	OK	0	412.9989488	0.418935	0
46 DST	1	1	0.461138	-2.53634	OK	0	568.3045922	0.5765	0
47 DUSP2	1	1	1.954673	-2.62599	OK	0	51.81895849	0.052553	0
48 EDN1	1	1	0.873766	-3.03193	OK	0	127.9897084	0.129815	0
49 EFNB2	1	1	2.486477	-2.50172	OK	0	128.9859157	0.130835	0
50 EGR3	1	1	1.452323	-2.57406	OK	0	84.38707069	0.085588	0
51 EIF1AY	1	1	-0.08711	-2.36609	OK	0	70.75675467	0.071765	0
52 EMP3	1	1	-0.20937	-3.07937	OK	0	256.9533955	0.260639	0
53 EPHA2	1	1	2.656547	-2.42386	OK	0	246.0033154	0.249544	0
54 FABP5	1	1	0.751235	-2.02107	OK	0	502.6097048	0.509848	0
55 FKBP2	1	1	0.476846	-3.51657	OK	0	53.25941835	0.054015	0
56 FLNA	1	1	-0.13304	-2.09958	OK	0	231.8223223	0.235158	0
57 FST	1	1	0.414913	-3.38829	OK	0	125.6322119	0.12742	0
58 FXYD5	1	1	0.292254	-3.39987	OK	0	96.55240375	0.097933	0

59	GOS2	1	1	-0.15712	-2.87777	OK	0	140.1699029	0.142156	0
60	GADD45A	1	1	1.241321	-2.99126	OK	0	196.1514741	0.198973	0
61	GADD45B	1	1	2.258333	-1.48187	OK	0	105.6110451	0.107124	0
62	GBP1	1	1	1.115467	-2.94459	OK	0	142.4951207	0.144539	0
63	GBP4	1	1	-0.71441	-2.42714	OK	0	95.03652978	0.096395	0
64	GCLC	1	1	0.342775	-2.37627	OK	0	203.325739	0.206249	0
65	GEM	1	1	1.291327	-1.65124	OK	0	116.9290194	0.118554	0
66	GLDC	1	1	-0.27651	-2.63336	OK	0	157.210424	0.159465	0
67	GLUL	1	1	0.434214	-2.75789	OK	0	159.2299888	0.161518	0
68	HBA2	1	1	2.493382	-4.0692	OK	0.000385	3.363480976	0.003394	0.000385
69	HBB	1	1	2.377574	-3.73461	OK	5.27E-50	14.82207236	0.015012	5.30E-50
70	HBEGF	1	1	2.164289	-2.67934	OK	0	153.9177792	0.156129	0
71	HES1	1	1	1.357425	-2.38272	OK	0	201.3878748	0.204284	0
72	HLA-DRA	1	1	-0.56867	-2.83555	OK	9.69E-265	34.7403494	0.035227	9.80E-265
73	ID1	1	1	2.581724	-2.61791	OK	0	242.6811155	0.246175	0
74	ID3	1	1	2.521021	-2.49203	OK	0	241.5798604	0.245057	0
75	ID4	1	1	1.217844	-1.42026	OK	0	202.8877829	0.205806	0
76	IFI27	1	1	-0.67546	-2.20074	OK	0	181.7270298	0.18434	0
77	IFIT3	1	1	-0.7039	-2.72902	OK	0	74.26490012	0.075323	0
78	IFITM1	1	1	-0.57002	-2.75697	OK	0	187.9036526	0.190596	0
79	IFITM2	1	1	1.011108	-1.78286	OK	0	74.91433667	0.075982	0
80	IGFBP3	1	1	0.371005	-2.70024	OK	0	306.9375209	0.31135	0
81	IGFBP5	1	1	0.588682	-2.71975	OK	0	160.1798855	0.162479	0
82	IGFBP6	1	1	0.787968	-2.10519	OK	0	262.7523086	0.266529	0
83	IGFBP7	1	1	-0.34624	-2.96818	OK	0	352.2977457	0.357359	0
84	IGHA1	1	1	2.557645	-4.25112	OK	1.41E-126	23.90349071	0.024215	1.42E-126
85	IGKC	1	1	2.54377	-4.25131	OK	2.44E-46	14.24399628	0.01443	2.45E-46
86	IGLC1	1	1	2.556192	-4.24673	OK	2.08E-45	14.09346196	0.014242	2.09E-45
87	IGLC2	1	1	2.554935	-4.25502	OK	5.26E-49	14.66684552	0.014848	5.28E-49
88	IGLC3	1	1	2.555681	-4.23277	OK	1.59E-16	8.165986867	0.008247	1.60E-16
89	IL18	1	1	0.52498	-3.26359	OK	0	296.1337585	0.300399	0
90	IL1R2	1	1	-0.23434	-3.11895	OK	0	545.0326173	0.55288	0
91	IRF1	1	1	-0.60471	-2.69317	OK	0	170.8912911	0.173347	0
92	ISG15	1	1	-0.66291	-2.14224	OK	0	53.05617638	0.053809	0
93	ITGA6	1	1	0.254387	-2.40469	OK	0	303.19091	0.307557	0
94	ITM2A	1	1	1.483514	-1.33433	OK	5.07E-44	13.86630512	0.01405	5.08E-44
95	ITPKC	1	1	2.68213	-2.47037	OK	0	229.6816513	0.232987	0
96	JCHAIN	1	1	2.560954	-4.2492	OK	3.61E-250	33.76159979	0.03417	3.65E-250
97	KCNQ1OT1	1	1	1.962834	-2.23346	OK	0	90.04412084	0.091329	0
98	KLF2	1	1	2.378366	-1.98028	OK	0	126.2714861	0.128081	0
99	KLF6	1	1	1.352223	-2.84309	OK	0	265.1055937	0.268921	0
100	KLK5	1	1	0.547774	-3.33708	OK	0	118.4480083	0.120138	0
101	KRT14	1	1	1.203802	-1.9339	OK	0	517.0799878	0.524537	0
102	KRT17	1	1	0.385406	-2.94431	OK	0	232.3568361	0.235701	0
103	KRT31	1	1	0.948314	-1.83795	OK	0	56.15630649	0.056952	0
104	KRT8	1	1	1.223441	-1.86004	OK	0	223.0145213	0.226224	0
105	LAMB3	1	1	0.040066	-2.46938	OK	0	415.3611254	0.421347	0
106	LDLR	1	1	2.208782	-2.64574	OK	0	155.3873989	0.157619	0
107	LGALS1	1	1	1.380708	-1.75596	OK	2.14E-224	31.95732083	0.032402	2.16E-224
108	LGALS7	1	1	1.090735	-2.06942	OK	0	126.3137809	0.128127	0
109	LGALSL	1	1	2.31963	-2.18426	OK	0	335.035367	0.339862	0
110	LOXL4	1	1	-0.19665	-2.7509	OK	0	248.8545188	0.252411	0
111	LSP1	1	1	1.118721	-1.63978	OK	8.94E-25	10.21000348	0.010341	8.96E-25
112	LTF	1	1	-0.5884	-2.76523	OK	0	87.20869164	0.088434	0
113	MAFF	1	1	2.511036	-2.52687	OK	0	211.3821363	0.214423	0
114	MALAT1	1	1	1.5667	-2.22478	OK	0	274.782913	0.278733	0
115	MAP3K8	1	1	2.390412	-2.41375	OK	0	135.6530637	0.137599	0
116	MIDN	1	1	2.452559	-2.54166	OK	0	233.2363591	0.236593	0
117	MT-ND4L	1	1	1.018874	-2.33358	OK	0	173.4250491	0.175918	0
118	MTRNR2L8	1	1	0.833867	-2.22614	OK	0	48.66179031	0.049352	0

119 MYADM	1	1	1.113583	-2.80532	OK	0	144.0347554	0.146098	0
120 MYO1B	1	1	0.028748	-2.44418	OK	0	138.4852347	0.14047	0
121 NCOA7	1	1	1.155427	-2.83456	OK	0	337.5638755	0.342428	0
122 NEAT1	1	1	1.836944	-2.38097	OK	0	267.4669646	0.271314	0
123 NEDD9	1	1	0.333455	-2.76122	OK	0	193.8402198	0.196605	0
124 NIBAN1	1	1	-0.13468	-2.07621	OK	0	123.085989	0.12485	0
125 NPPC	1	1	1.228183	-1.53848	OK	0	114.497038	0.116054	0
126 NR4A1	1	1	1.543684	-2.59048	OK	0	169.8232228	0.172264	0
127 NR4A2	1	1	1.544583	-2.54334	OK	4.35E-307	37.44012295	0.037967	4.41E-307
128 NRARP	1	1	2.601736	-2.46734	OK	0	394.009364	0.399689	0
129 NSUN6	1	1	1.329912	-2.37738	OK	0	49.45029147	0.05015	0
130 OVOL1	1	1	2.476076	-2.59022	OK	0	188.088242	0.190793	0
131 PDPN	1	1	-0.19634	-2.9963	OK	0	311.1397947	0.315608	0
132 PEG3	1	1	0.799547	-2.36057	OK	9.24E-221	31.69454113	0.032131	9.32E-221
133 PER3	1	1	0.675756	-1.9635	OK	0	132.3432152	0.134242	0
134 PHGDH	1	1	0.522621	-3.54771	OK	0	233.1862418	0.236539	0
135 PHLDA2	1	1	2.583079	-2.49378	OK	0	345.8296751	0.350813	0
136 PLAUR	1	1	2.397017	-2.61751	OK	0	90.32190452	0.091612	0
137 PLK2	1	1	1.187502	-2.94141	OK	0	172.1827367	0.174658	0
138 PLK3	1	1	1.848076	-2.37551	OK	0	89.0196517	0.090292	0
139 POSTN	1	1	-0.36877	-2.50106	OK	0	232.6168156	0.235962	0
140 PRRX1	1	1	-0.34054	-2.66218	OK	0	223.6743965	0.226881	0
141 PRSS23	1	1	-0.11074	-2.75069	OK	0	184.9629801	0.187603	0
142 RAB11FIP1	1	1	2.403471	-2.33391	OK	0	462.1266184	0.468791	0
143 RAB31	1	1	-0.02532	-2.50432	OK	0	94.22632269	0.095572	0
144 RAMP1	1	1	0.188345	-3.31549	OK	0	317.2659924	0.32182	0
145 RHOB	1	1	2.242625	-1.4497	OK	0	202.4356987	0.205347	0
146 RPS4Y1	1	1	-0.05598	-2.47687	OK	0	186.392789	0.189073	0
147 RRAD	1	1	2.504522	-2.52419	OK	0	279.0862894	0.283105	0
148 S100A9	1	1	-0.45281	-2.63434	OK	0	389.1506354	0.394746	0
149 SAA1	1	1	-0.54209	-2.95333	OK	0	186.5676271	0.189238	0
150 SERPINB2	1	1	2.394515	-2.29081	OK	0	359.4517273	0.364632	0
151 SLC1A3	1	1	0.518801	-2.61277	OK	0	347.6272537	0.352625	0
152 SLC25A25	1	1	2.357609	-2.66504	OK	0	123.5270162	0.125297	0
153 SLC7A2	1	1	0.472764	-2.38052	OK	0	111.0431031	0.112627	0
154 SLC7A5	1	1	0.554562	-2.59132	OK	0	357.6538348	0.3628	0
155 SNHG17	1	1	0.759469	-2.21123	OK	0	74.24134721	0.0753	0
156 SOCS3	1	1	-0.33121	-2.88357	OK	0	140.3157356	0.142329	0
157 SOD2	1	1	-0.59301	-2.74724	OK	0	188.8917606	0.191608	0
158 SOX4	1	1	0.829218	-2.55251	OK	0	98.85032033	0.100266	0
159 SOX9	1	1	2.555352	-2.57899	OK	0	98.2141115	0.099619	0
160 SRGN	1	1	1.931935	-4.22501	OK	0	48.95780565	0.049641	0
161 SYNPO2	1	1	-0.11312	-2.64356	OK	0	250.203614	0.253788	0
162 SYT8	1	1	1.02998	-1.7182	OK	0	81.57041209	0.082734	0
163 TIMP1	1	1	-0.36575	-2.62806	OK	0	347.6863231	0.352696	0
164 TINAGL1	1	1	-0.21167	-2.83272	OK	0	168.6046847	0.171013	0
165 TNC	1	1	-0.15141	-2.7058	OK	0	284.1738482	0.288246	0
166 TNFAIP2	1	1	-0.65859	-2.53392	OK	0	197.2090193	0.200043	0
167 TNFAIP3	1	1	1.433982	-2.69384	OK	0	50.76613644	0.051486	0
168 TNFRSF12A	1	1	0.076905	-2.818	OK	0	126.3962489	0.128204	0
169 TPM2	1	1	0.403067	-3.44387	OK	0	192.4588265	0.195213	0
170 TPPP3	1	1	1.007442	-1.70061	OK	0	89.45077119	0.090727	0
171 TPSAB1	1	1	1.956884	-4.24606	OK	0	105.468717	0.106962	0
172 TPSB2	1	1	1.921124	-4.24201	OK	0	113.88851	0.115504	0
173 TRIB1	1	1	1.4767	-2.83827	OK	0	77.35067692	0.078455	0
174 TSLP	1	1	0.266599	-3.33594	OK	0	368.0925964	0.37339	0
175 TUBB2A	1	1	2.517156	-2.00854	OK	0	217.7546552	0.220887	0
176 TXNIP	1	1	0.08213	-2.86649	OK	0	247.3527351	0.250913	0
177 UGCG	1	1	-0.69959	-2.45222	OK	0	134.2644889	0.136191	0
178 VIM	1	1	1.89763	-4.18436	OK	8.36E-207	30.66491519	0.031091	8.43E-207

179	WNT10A	1	1	0.457502	-3.26788	OK	0	389.7178211	0.395321	0
180	XIST	1	1	1.056281	-2.09943	OK	0	71.0457907	0.072059	0
181	ZNF750	1	1	2.368178	-2.42324	OK	0	440.6977967	0.447052	0
182	ASF1B	2	2	-4.33988	-6.22398	OK	0	303.6197256	0.30797	0
183	ATAD2	2	2	-4.25714	-5.88279	OK	0	332.4975271	0.337284	0
184	ATAD5	2	2	-4.15981	-5.81475	OK	0	294.7481882	0.298979	0
185	BRCA1	2	2	-4.02936	-5.89745	OK	0	324.5089025	0.329168	0
186	BRCA2	2	2	-4.24062	-5.72768	OK	0	307.555001	0.311969	0
187	CARHSP1	2	2	-4.48334	-6.19392	OK	0	270.5745973	0.274471	0
188	CCDC34	2	2	-5.14806	-6.52291	OK	0	265.4406665	0.269262	0
189	CDCA5	2	2	-4.89061	-5.89367	OK	0	322.045084	0.326657	0
190	CDCA7	2	2	-3.51188	-6.09523	OK	0	291.3183535	0.295502	0
191	CDT1	2	2	-3.49152	-6.16998	OK	0	302.2505479	0.306593	0
192	CENPK	2	2	-4.80545	-6.44827	OK	0	367.7205942	0.373007	0
193	CENPM	2	2	-4.80206	-6.44878	OK	0	383.4095938	0.388922	0
194	CENPU	2	2	-4.12404	-6.17607	OK	0	248.5664698	0.252142	0
195	CEP78	2	2	-4.31891	-5.68348	OK	0	183.1694548	0.185795	0
196	CHEK1	2	2	-3.69022	-6.05	OK	0	290.5412327	0.294715	0
197	CLSPN	2	2	-4.09267	-6.09342	OK	0	389.6023096	0.395193	0
198	DEK	2	2	-3.67038	-6.02709	OK	0	361.7305588	0.366943	0
199	DHFR	2	2	-4.31338	-6.14952	OK	0	336.6264085	0.341468	0
200	DNMT1	2	2	-3.74354	-5.96857	OK	0	320.6282158	0.325245	0
201	DUT	2	2	-3.7669	-6.1359	OK	0	312.5193279	0.317021	0
202	E2F8	2	2	-4.82741	-5.79589	OK	0	224.0968609	0.227316	0
203	ESCO2	2	2	-4.90131	-5.85412	OK	0	417.5632557	0.42355	0
204	EZH2	2	2	-4.68819	-5.78957	OK	0	212.581927	0.215637	0
205	FAM111B	2	2	-4.00952	-6.04591	OK	0	420.2372258	0.426279	0
206	FANCI	2	2	-4.56759	-5.80454	OK	0	306.0426272	0.310437	0
207	FBXO5	2	2	-4.94313	-5.8549	OK	0	294.1621827	0.298379	0
208	FEN1	2	2	-3.99097	-6.19048	OK	0	301.9577638	0.306297	0
209	GINS2	2	2	-3.50142	-6.13664	OK	0	349.9647539	0.354994	0
210	GMNN	2	2	-3.65876	-6.06001	OK	0	260.1691145	0.263911	0
211	HELLS	2	2	-3.72866	-6.02014	OK	0	414.2059156	0.420169	0
212	HES4	2	2	-4.15843	-6.23743	OK	0	260.8087447	0.264563	0
213	HIST1H1A	2	2	0.114293	-8.62427	OK	0	371.44293	0.376778	0
214	HIST1H1B	2	2	0.127777	-8.60943	OK	0	447.9944124	0.454436	0
215	HIST1H1C	2	2	0.106376	-8.63327	OK	0	179.4587549	0.182038	0
216	HIST1H1D	2	2	0.135122	-8.66808	OK	0	341.452203	0.346366	0
217	HIST1H1E	2	2	0.110582	-8.62709	OK	0	229.9497091	0.233257	0
218	HIST1H2AC	2	2	0.18788	-8.51691	OK	0	177.2708799	0.179818	0
219	HIST1H2AC	2	2	0.108157	-8.63215	OK	0	308.5419311	0.312968	0
220	HIST1H2BC	2	2	0.111142	-8.62646	OK	0	183.31419	0.185941	0
221	HIST1H3B	2	2	0.123162	-8.60103	OK	0	388.4850417	0.394043	0
222	HIST1H3D	2	2	0.096466	-8.64129	OK	0	281.4909056	0.285528	0
223	HIST1H3G	2	2	0.083851	-8.65213	OK	0	343.3052112	0.348208	0
224	HIST1H4C	2	2	0.077953	-8.66427	OK	0	330.5816847	0.335344	0
225	HIST2H2AC	2	2	0.103011	-8.65129	OK	0	184.0538168	0.186697	0
226	HSPH1	2	2	-3.67822	-5.32866	OK	0	186.3407804	0.18902	0
227	LIG1	2	2	-4.11585	-6.01801	OK	0	237.5323514	0.240942	0
228	LMNB1	2	2	-4.49294	-5.56294	OK	0	393.3574489	0.399018	0
229	MCM3	2	2	-3.46501	-6.07193	OK	0	309.7711593	0.31423	0
230	MCM4	2	2	-3.66856	-5.67707	OK	0	240.3590917	0.243817	0
231	MCM5	2	2	-3.44434	-6.18908	OK	0	287.4815364	0.291616	0
232	MCM6	2	2	-3.47477	-6.0325	OK	0	280.9989135	0.285035	0
233	MCM7	2	2	-3.52583	-6.16576	OK	0	354.8152696	0.359923	0
234	MELK	2	2	-5.14283	-5.78189	OK	0	259.7973015	0.263523	0
235	MND1	2	2	-4.77889	-6.44416	OK	0	321.7540889	0.326367	0
236	MNS1	2	2	-4.75841	-6.36889	OK	0	303.8454906	0.308196	0
237	MSH6	2	2	-3.55908	-5.85192	OK	0	223.4767841	0.226689	0
238	MYBL2	2	2	-4.73078	-6.08976	OK	0	330.5514179	0.335289	0

239	NASP	2	2	-3.6002	-6.05167	OK	0	322.7272722	0.327377	0
240	NCAPD3	2	2	-4.55137	-5.6881	OK	0	246.7831849	0.250327	0
241	NCAPG2	2	2	-4.6771	-5.68585	OK	0	256.4721136	0.260148	0
242	ORC6	2	2	-4.09723	-6.13835	OK	0	363.8643327	0.369094	0
243	PCLAF	2	2	-4.9571	-6.52778	OK	0	448.9176111	0.455385	0
244	PCNA	2	2	-3.6325	-6.16611	OK	0	320.7812437	0.325402	0
245	PKMYT1	2	2	-4.58171	-6.20377	OK	0	315.0700891	0.319584	0
246	PIIF	2	2	-3.48611	-6.15633	OK	0	120.3496948	0.122075	0
247	PSIP1	2	2	-3.75722	-6.01724	OK	0	316.7354083	0.321295	0
248	RAD51AP1	2	2	-4.81258	-6.3274	OK	0	345.7551801	0.350715	0
249	RECQL	2	2	-3.74187	-5.67753	OK	0	128.7470146	0.130593	0
250	RFC3	2	2	-3.86256	-5.99625	OK	0	202.5201102	0.205419	0
251	RIF1	2	2	-3.734	-5.47939	OK	0	203.6023775	0.20653	0
252	RRM1	2	2	-4.05986	-5.81768	OK	0	281.6875114	0.285743	0
253	RRM2	2	2	-4.81254	-6.01153	OK	0	477.6199408	0.484495	0
254	SLC20A1	2	2	-4.17883	-5.66903	OK	0	113.0806074	0.114698	0
255	SMC1A	2	2	-3.78537	-5.43971	OK	0	208.891864	0.211896	0
256	SMC2	2	2	-4.43242	-5.7005	OK	0	351.0626718	0.356119	0
257	TCOF1	2	2	-3.8235	-5.51156	OK	0	197.243147	0.200075	0
258	TK1	2	2	-4.88838	-6.52042	OK	0	432.2123114	0.438438	0
259	TMEM106	2	2	-4.82531	-6.50557	OK	0	220.6734587	0.223848	0
260	TMPO	2	2	-4.5418	-5.50397	OK	0	294.0909353	0.298327	0
261	TYMS	2	2	-4.60287	-6.35712	OK	0	466.8802178	0.473602	0
262	UBE2T	2	2	-5.24165	-6.15643	OK	0	350.8187575	0.355866	0
263	WDR76	2	2	-3.75248	-5.98112	OK	0	237.6101167	0.241015	0
264	ZWINT	2	2	-4.90346	-6.48976	OK	0	347.7647229	0.352768	0
265	ANLN	3	2	-6.64805	-5.71415	OK	0	475.0182829	0.48185	0
266	ANP32E	3	2	-6.73942	-6.17275	OK	0	250.3710827	0.253974	0
267	ARHGAP11	3	2	-6.77772	-5.83861	OK	0	324.5657833	0.329221	0
268	ARL6IP1	3	2	-6.58939	-6.87519	OK	0	225.2103818	0.228451	0
269	ASPM	3	2	-7.02824	-6.2946	OK	0	518.3509325	0.525808	0
270	AURKA	3	2	-7.2686	-5.79176	OK	0	334.7481773	0.339552	0
271	AURKB	3	2	-6.9672	-5.38816	OK	0	402.6692237	0.408447	0
272	BIRC5	3	2	-6.5156	-6.71668	OK	0	477.3368896	0.484209	0
273	BUB1	3	2	-7.06104	-6.22508	OK	0	380.6895813	0.386139	0
274	BUB1B	3	2	-6.43377	-5.48833	OK	0	354.5448231	0.359622	0
275	CCNA2	3	2	-6.79807	-5.64315	OK	0	488.430511	0.495453	0
276	CCNB1	3	2	-6.61241	-6.83441	OK	0	419.4382514	0.425475	0
277	CCNB2	3	2	-6.59044	-6.82483	OK	0	427.368051	0.433513	0
278	CDC20	3	2	-6.624	-6.81963	OK	0	440.6831851	0.44702	0
279	CDCA3	3	2	-7.24016	-5.74895	OK	0	379.5626451	0.385006	0
280	CDCA8	3	2	-7.0953	-5.58952	OK	0	398.6056673	0.404323	0
281	CDK1	3	2	-6.30193	-5.3877	OK	0	456.769362	0.463342	0
282	CDKN3	3	2	-6.5829	-6.83828	OK	0	449.2620406	0.455724	0
283	CENPA	3	2	-7.28885	-6.13209	OK	0	428.3067258	0.434442	0
284	CENPE	3	2	-7.09678	-6.29993	OK	0	450.2198086	0.45669	0
285	CENPF	3	2	-6.81276	-6.48649	OK	0	508.4613173	0.515784	0
286	CENPN	3	2	-6.08699	-6.71067	OK	0	265.6445725	0.26946	0
287	CENPW	3	2	-6.13795	-6.79454	OK	0	410.6286908	0.416546	0
288	CEP55	3	2	-6.93304	-6.35802	OK	0	488.8382505	0.495863	0
289	CKAP2	3	2	-7.07195	-5.88238	OK	0	273.5440429	0.27748	0
290	CKAP2L	3	2	-6.44093	-5.34519	OK	0	394.9006833	0.400563	0
291	CKAP5	3	2	-6.92619	-6.09364	OK	0	173.8331852	0.176327	0
292	CKS1B	3	2	-5.84114	-6.27704	OK	0	315.6493946	0.320196	0
293	CKS2	3	2	-7.37503	-6.04584	OK	0	265.0567637	0.268873	0
294	DBF4	3	2	-6.54748	-5.65834	OK	0	220.4418124	0.223609	0
295	DDX39A	3	2	-6.25706	-6.82053	OK	0	233.5166373	0.236876	0
296	DEPDC1	3	2	-7.02457	-5.82092	OK	0	429.0195123	0.435177	0
297	DIAPH3	3	2	-6.10346	-5.51381	OK	0	383.3640675	0.388865	0
298	DLGAP5	3	2	-7.1365	-6.33492	OK	0	509.9364777	0.517261	0

299	DTYMK	3	2	-6.04055	-6.67561	OK	0	288.3997887	0.292552	0
300	ECT2	3	2	-6.86809	-6.16992	OK	0	296.345316	0.300606	0
301	FAM83D	3	2	-7.37405	-5.93832	OK	0	178.0695124	0.180627	0
302	FOXMI	3	2	-6.52067	-5.68305	OK	0	270.2818502	0.274154	0
303	GTSE1	3	2	-7.22138	-5.75804	OK	0	459.0597043	0.465644	0
304	H2AFX	3	2	-6.28617	-5.26615	OK	0	263.2412019	0.267029	0
305	H2AFZ	3	2	-6.00822	-6.78725	OK	0	338.9789411	0.343862	0
306	HJURP	3	2	-6.46623	-5.38949	OK	0	334.6720879	0.339459	0
307	HMGB2	3	2	-5.92647	-5.90951	OK	0	345.8882459	0.350872	0
308	HMGB3	3	2	-6.37366	-6.78776	OK	0	237.7025782	0.241122	0
309	HMMR	3	2	-7.17153	-6.26332	OK	0	498.1264527	0.505283	0
310	KIF11	3	2	-6.35152	-5.55997	OK	0	381.813916	0.387305	0
311	KIF20B	3	2	-6.94495	-6.16014	OK	0	377.0758759	0.382502	0
312	KIF23	3	2	-7.13769	-5.70371	OK	0	443.0448743	0.4494	0
313	KIF2C	3	2	-6.99928	-5.81684	OK	0	400.3925918	0.40613	0
314	KIFC1	3	2	-6.39928	-5.35402	OK	0	356.6972792	0.361812	0
315	KNL1	3	2	-6.75852	-5.88556	OK	0	424.8288366	0.430926	0
316	KNSTRN	3	2	-7.3572	-6.13795	OK	0	257.8392919	0.261534	0
317	KPNA2	3	2	-7.38063	-6.06982	OK	0	318.2757918	0.322856	0
318	LMNB2	3	2	-6.62174	-5.8299	OK	0	244.4724342	0.247986	0
319	MAD2L1	3	2	-5.76078	-6.2891	OK	0	414.4505642	0.420416	0
320	MKI67	3	2	-6.5938	-5.80462	OK	0	526.9579538	0.534549	0
321	MXD3	3	2	-7.07385	-5.51901	OK	0	290.628833	0.294789	0
322	NCAPD2	3	2	-6.68758	-6.02272	OK	0	245.3189966	0.248842	0
323	NCAPG	3	2	-6.3907	-5.46391	OK	0	408.6318355	0.414496	0
324	NDC80	3	2	-6.37732	-5.32053	OK	0	404.7600497	0.410566	0
325	NUF2	3	2	-6.94983	-5.76908	OK	0	462.6247398	0.469268	0
326	NUSAP1	3	2	-6.49613	-5.38855	OK	0	516.8984844	0.524342	0
327	PBK	3	2	-6.3605	-5.34012	OK	0	478.6983939	0.485578	0
328	PHF19	3	2	-6.14263	-6.67714	OK	0	241.2201096	0.244688	0
329	PLK1	3	2	-7.37335	-6.0216	OK	0	415.7317079	0.42169	0
330	PRC1	3	2	-6.78877	-5.69713	OK	0	505.0432295	0.512314	0
331	PRR11	3	2	-7.0282	-6.39204	OK	0	317.0958097	0.321633	0
332	PTTG1	3	2	-6.30087	-6.88225	OK	0	389.5862866	0.395202	0
333	RACGAP1	3	2	-6.87837	-5.82092	OK	0	265.8963449	0.269714	0
334	SAP30	3	2	-6.62856	-5.38204	OK	0	197.6123397	0.200452	0
335	SGO1	3	2	-6.40308	-5.54335	OK	0	382.9713219	0.388466	0
336	SGO2	3	2	-7.08072	-5.92029	OK	0	380.4967547	0.38596	0
337	SMC4	3	2	-6.67579	-5.8764	OK	0	306.5606786	0.310976	0
338	SPC25	3	2	-6.34006	-5.34115	OK	0	383.6302199	0.389129	0
339	SPDL1	3	2	-6.87277	-5.84299	OK	0	162.0347877	0.164355	0
340	STMN1	3	2	-5.82439	-6.72014	OK	0	471.9225507	0.478727	0
341	TACC3	3	2	-6.43857	-5.42185	OK	0	372.5025199	0.37785	0
342	TOP2A	3	2	-6.92858	-5.70179	OK	0	513.486736	0.520879	0
343	TPX2	3	2	-6.83594	-5.78668	OK	0	506.3080196	0.513596	0
344	TROAP	3	2	-6.52557	-6.87157	OK	0	288.1826309	0.292316	0
345	TTK	3	2	-6.79595	-5.78075	OK	0	396.9420042	0.402639	0
346	TUBA1B	3	2	-5.95699	-6.75562	OK	0	321.286051	0.325914	0
347	TUBB	3	2	-5.63881	-6.60014	OK	0	298.4346713	0.302733	0
348	UBE2C	3	2	-7.23741	-5.70497	OK	0	441.0608542	0.447406	0
349	UBE2S	3	2	-7.35072	-5.93888	OK	0	200.7814907	0.203669	0
350	A2ML1	4	1	1.891713	-0.12064	OK	0	578.0125791	0.58635	0
351	A4GALT	4	1	0.016242	0.500441	OK	0	285.3128117	0.289414	0
352	AC005532.	4	1	2.785486	1.009048	OK	0	280.409881	0.284419	0
353	AC008397.	4	1	0.830541	1.249374	OK	0	143.2849463	0.145339	0
354	AC068587.	4	1	0.675013	1.432837	OK	0	196.7178579	0.199541	0
355	ACPP	4	1	2.342656	0.278526	OK	0	199.6201526	0.202487	0
356	AGR2	4	1	2.474897	1.62014	OK	8.10E-113	22.54169602	0.022852	8.14E-113
357	AIFM2	4	1	2.378798	2.138588	OK	0	100.4310324	0.101865	0
358	AKR1B10	4	1	2.818513	-0.77481	OK	0	225.3844686	0.228625	0

359	AKR1C1	4	1	2.833771	-0.82888	OK	0	84.04776588	0.085246	0
360	AKR1C2	4	1	2.859662	-0.81994	OK	0	107.320345	0.108855	0
361	AKR1C3	4	1	2.872497	-0.79995	OK	0	115.1200906	0.116766	0
362	AL355312.	4	1	2.920897	2.80667	OK	0	164.3823196	0.166712	0
363	ALDH1A1	4	1	1.694271	-0.67138	OK	0	166.3984131	0.16878	0
364	ALDH3B2	4	1	0.922371	0.04813	OK	0	343.2903912	0.348235	0
365	ALOX12	4	1	2.882485	1.17424	OK	0	235.8135734	0.239173	0
366	ALOX15B	4	1	2.391708	-0.47437	OK	0	68.19855221	0.069166	0
367	ANKRD35	4	1	2.310583	-0.383	OK	0	145.9227264	0.148013	0
368	ANXA1	4	1	2.045873	1.193991	OK	0	250.8113796	0.254392	0
369	ANXA3	4	1	0.921872	0.816581	OK	0	380.7749084	0.386263	0
370	ASPG	4	1	1.754522	1.836863	OK	0	436.7374864	0.443033	0
371	ATP13A4	4	1	0.249626	0.977228	OK	0	259.4040441	0.263128	0
372	ATP1B1	4	1	1.334709	0.925744	OK	0	286.7203277	0.29085	0
373	BEX4	4	1	2.87767	1.555563	OK	0	131.258638	0.133141	0
374	BICDL2	4	1	1.032993	1.797529	OK	0	418.8785116	0.424916	0
375	BNIP3	4	1	2.943675	1.725236	OK	0	216.0187422	0.219119	0
376	C10orf99	4	1	2.477624	-0.38263	OK	0	300.3851886	0.30471	0
377	C15orf48	4	1	2.983682	2.79249	OK	0	499.9754921	0.507174	0
378	C4orf3	4	1	2.075654	1.675033	OK	0	349.1688992	0.354198	0
379	C8orf82	4	1	2.740574	-0.10305	OK	0	129.4587772	0.131316	0
380	CALB2	4	1	2.74079	2.808747	OK	0	230.5555349	0.233783	0
381	CALML5	4	1	1.214829	1.378088	OK	0	329.1750199	0.333914	0
382	CAPN14	4	1	0.013119	0.054206	OK	0	428.6675591	0.434848	0
383	CASTOR1	4	1	2.523008	0.100629	OK	0	217.3463446	0.220467	0
384	CBR3	4	1	2.661851	-0.33671	OK	0	226.9621347	0.230228	0
385	CCNYL1	4	1	2.590217	2.890558	OK	0	88.93180731	0.090196	0
386	CD24	4	1	1.887668	1.186092	OK	0	620.4954414	0.629444	0
387	CDA	4	1	2.855691	1.064485	OK	0	294.1648014	0.298381	0
388	CDH26	4	1	0.053599	0.601023	OK	0	532.2038556	0.539874	0
389	CEACAM1	4	1	0.515895	1.404806	OK	0	320.9092895	0.325517	0
390	CEACAM5	4	1	0.372261	1.135503	OK	0	568.2811714	0.576472	0
391	CEACAM6	4	1	0.283144	1.206619	OK	0	452.4860501	0.459007	0
392	CES1	4	1	2.3606	-0.42995	OK	0	246.4902038	0.250017	0
393	CFD	4	1	1.187713	1.825721	OK	0	122.640353	0.124399	0
394	CGN	4	1	0.209067	0.820116	OK	0	194.8267738	0.197619	0
395	CITED4	4	1	2.740356	-0.24382	OK	0	325.7651487	0.330459	0
396	CLCA4	4	1	0.761373	0.817989	OK	0	482.5257374	0.489483	0
397	CLDN10	4	1	2.529443	2.208148	OK	0	250.1852554	0.253675	0
398	CLIC3	4	1	1.230177	1.439811	OK	0	614.1757048	0.623037	0
399	CNFN	4	1	2.98389	2.639575	OK	0	409.1930547	0.415089	0
400	CNN3	4	1	2.288359	0.575354	OK	0	357.4356518	0.362586	0
401	COX7A1	4	1	2.97478	3.300049	OK	0	40.77811439	0.041349	0
402	CPVL	4	1	1.721601	-0.70395	OK	0	100.6883141	0.102125	0
403	CRCT1	4	1	3.082563	2.963947	OK	0	534.7643131	0.542463	0
404	CRISP3	4	1	2.897492	2.875373	OK	0	735.9159145	0.746439	0
405	CRNN	4	1	2.821413	1.232228	OK	0	654.9954888	0.664442	0
406	CRYAB	4	1	2.911975	1.436168	OK	0	233.3577469	0.236711	0
407	CST3	4	1	1.679118	1.142904	OK	0	226.8616732	0.230121	0
408	CST6	4	1	2.639604	2.887928	OK	0	511.3496995	0.518696	0
409	CSTA	4	1	2.12954	1.450359	OK	0	337.1288839	0.341971	0
410	CSTB	4	1	2.192769	1.327328	OK	0	319.268586	0.32384	0
411	CTNBP1	4	1	2.674345	-0.17579	OK	0	319.16856	0.323767	0
412	CTTNBP2	4	1	1.952348	-0.34842	OK	0	341.4477042	0.346365	0
413	CWH43	4	1	2.460269	0.201596	OK	0	285.178642	0.289266	0
414	CXCL17	4	1	0.921783	1.222796	OK	0	477.262265	0.484145	0
415	CXXC5	4	1	0.79263	1.695409	OK	0	230.1887361	0.233499	0
416	CYP2C18	4	1	1.678719	-0.16493	OK	0	187.6605934	0.190353	0
417	CYP4B1	4	1	1.479162	-0.63646	OK	0	267.3179709	0.271166	0
418	CYP51A1	4	1	-0.95081	0.937862	OK	0	198.7919872	0.201651	0

419	CYSRT1	4	1	1.584584	2.066393	OK	0	625.8978119	0.634926	0
420	DDAH2	4	1	0.487227	0.875252	OK	0	209.6080141	0.212623	0
421	DEFB1	4	1	1.550191	-0.67266	OK	0	305.7592893	0.310164	0
422	DEGS2	4	1	2.481654	-0.16399	OK	0	370.6941318	0.37603	0
423	DIO2	4	1	0.31495	1.053826	OK	0	444.5257296	0.450924	0
424	DMKN	4	1	1.002554	1.290453	OK	0	417.0286926	0.423041	0
425	DNASE1L3	4	1	2.687181	-0.6936	OK	0	60.31481784	0.06117	0
426	DSC2	4	1	1.595103	-0.39286	OK	0	493.7029115	0.500822	0
427	DSG1	4	1	2.346275	-0.18419	OK	0	214.1713862	0.21721	0
428	DYNLT3	4	1	1.46437	0.097176	OK	0	459.416003	0.466041	0
429	ECM1	4	1	3.085808	2.952061	OK	0	518.096523	0.525563	0
430	EGLN3	4	1	0.061429	0.815331	OK	0	245.6607025	0.249195	0
431	EHD3	4	1	0.093974	1.610521	OK	0	191.7791492	0.194533	0
432	ELL2	4	1	1.705955	-0.29746	OK	0	209.4195313	0.212432	0
433	ELOVL4	4	1	0.739471	0.677094	OK	0	223.2936189	0.226502	0
434	EMP1	4	1	2.82942	2.286886	OK	0	443.7120214	0.450108	0
435	ENDOU	4	1	2.547215	0.610316	OK	0	334.4786733	0.339278	0
436	EPB41L3	4	1	2.862269	1.611585	OK	0	257.5623751	0.261212	0
437	EPHX3	4	1	1.341057	1.16126	OK	0	291.4868824	0.295684	0
438	EREG	4	1	2.331188	1.988232	OK	0	235.7198365	0.239058	0
439	ETNK2	4	1	2.509976	-0.27409	OK	0	134.7491731	0.136673	0
440	EVPL	4	1	0.337948	0.063773	OK	0	378.3322097	0.383785	0
441	F3	4	1	2.918667	1.333382	OK	0	114.480609	0.116097	0
442	FAM25A	4	1	2.948397	3.376667	OK	0	608.867759	0.617613	0
443	FAM3B	4	1	0.796359	0.809433	OK	0	584.4285613	0.592859	0
444	FAM3D	4	1	2.300569	1.917214	OK	0	663.9994596	0.673564	0
445	FAM83A	4	1	0.172454	1.219733	OK	0	286.1997994	0.29032	0
446	FETUB	4	1	0.283222	0.810892	OK	0	475.6023852	0.482433	0
447	FGF11	4	1	-0.05823	0.448319	OK	0	155.6722978	0.157902	0
448	FGFBP1	4	1	-0.96586	0.937649	OK	0	309.3057201	0.313762	0
449	FMO2	4	1	-0.15245	0.761232	OK	0	177.0366765	0.179581	0
450	FNDC4	4	1	2.759022	2.182998	OK	0	306.9385248	0.311293	0
451	FUOM	4	1	1.061342	1.679072	OK	0	103.8095339	0.105296	0
452	GABRP	4	1	0.087931	0.249211	OK	0	375.323666	0.380732	0
453	GADD45G	4	1	2.479284	-0.25969	OK	0	98.44566144	0.09985	0
454	GBP6	4	1	1.611603	-0.21593	OK	0	512.5143507	0.519904	0
455	GCNT3	4	1	0.260955	0.952298	OK	0	404.6933837	0.410509	0
456	GDPD3	4	1	2.593174	0.719751	OK	0	469.1828156	0.475937	0
457	GJB2	4	1	1.37193	0.681958	OK	0	355.6477572	0.360773	0
458	GJB6	4	1	1.207641	0.704521	OK	0	402.2779436	0.408077	0
459	GLTP	4	1	1.380558	0.891863	OK	0	304.6894249	0.309078	0
460	GNG4	4	1	2.07548	1.869417	OK	0	431.5150323	0.437705	0
461	GPR160	4	1	0.062666	0.886411	OK	0	167.3407471	0.169732	0
462	GPX2	4	1	2.793055	-0.80877	OK	0	133.2438973	0.135154	0
463	GPX3	4	1	2.613266	0.909512	OK	0	283.5345129	0.287605	0
464	GRHL3	4	1	1.21195	-0.14088	OK	0	251.2249215	0.25484	0
465	GSN	4	1	1.752859	0.796848	OK	0	376.292767	0.381714	0
466	GSTA1	4	1	1.779266	-0.62722	OK	0	137.3851127	0.139339	0
467	GSTM3	4	1	2.777193	-0.85057	OK	0	217.7896179	0.220923	0
468	GSTT2B	4	1	2.679172	2.768602	OK	0	42.74445998	0.043344	0
469	HIF1A	4	1	1.945038	0.138906	OK	0	149.890068	0.152043	0
470	HMGCS1	4	1	-0.91552	0.911791	OK	0	275.885265	0.279858	0
471	HMOX2	4	1	1.807945	2.239631	OK	0	215.2434171	0.21834	0
472	HOPX	4	1	2.457014	1.924053	OK	0	471.7445903	0.478547	0
473	HPSE	4	1	2.156444	2.156605	OK	0	81.75021888	0.082913	0
474	HS3ST1	4	1	-0.01955	0.565166	OK	0	308.3170718	0.312757	0
475	HSPA1A	4	1	2.025709	-0.88918	OK	0	220.5169297	0.223689	0
476	HSPA1B	4	1	1.987977	-0.8351	OK	0	166.0934935	0.168481	0
477	IDI1	4	1	-0.99348	0.983613	OK	0	154.2160302	0.156431	0
478	IFFO2	4	1	0.368857	-0.03894	OK	0	285.3620682	0.28947	0

479	IFI35	4	1	-0.25795	0.058423	OK	0	174.3475072	0.176852	0
480	IGFL1	4	1	2.898487	1.440987	OK	0	176.6862462	0.179208	0
481	IL12A-AS1	4	1	2.602433	2.423913	OK	0	377.3523034	0.3827	0
482	INSIG1	4	1	-0.88381	0.945471	OK	0	142.6558754	0.144701	0
483	ISG20	4	1	2.134494	1.835485	OK	0	260.467267	0.264207	0
484	IVL	4	1	2.328467	0.443246	OK	0	548.5438079	0.556455	0
485	KALRN	4	1	0.312571	0.790947	OK	0	192.7387168	0.195502	0
486	KCNK7	4	1	2.536252	-0.57966	OK	0	292.2925825	0.296501	0
487	KIAA1211L	4	1	1.704933	-0.27034	OK	0	173.7964577	0.176292	0
488	KIF21A	4	1	1.416156	0.667404	OK	0	240.6225903	0.244085	0
489	KLK10	4	1	0.531004	1.157841	OK	0	303.5932559	0.307967	0
490	KLK11	4	1	1.636212	0.602342	OK	0	442.831086	0.449215	0
491	KLK12	4	1	0.345473	1.598014	OK	0	623.3935802	0.632373	0
492	KLK13	4	1	0.474616	1.377214	OK	0	495.5938624	0.502741	0
493	KLK6	4	1	0.396939	1.916518	OK	0	157.4716702	0.1597	0
494	KLK7	4	1	0.513065	1.071659	OK	0	394.0594654	0.399727	0
495	KLK8	4	1	0.59466	1.212487	OK	0	184.9105103	0.187569	0
496	KRT24	4	1	0.514017	1.510684	OK	0	279.6687924	0.283669	0
497	KRT4	4	1	1.337342	-0.10778	OK	0	510.4046644	0.517761	0
498	KRT6A	4	1	2.29938	-0.22425	OK	0	489.094413	0.496141	0
499	KRT6B	4	1	2.369385	-0.19288	OK	0	379.5929138	0.385064	0
500	KRT6C	4	1	2.39509	-0.19643	OK	0	295.7432313	0.3	0
501	KRT78	4	1	3.040286	3.064029	OK	0	676.0771032	0.6858	0
502	KRTDAP	4	1	0.817564	1.374744	OK	0	86.4545668	0.087676	0
503	LCN2	4	1	0.287852	2.102612	OK	0	406.9989418	0.412865	0
504	LGALS7B	4	1	0.617082	-0.05204	OK	0	297.1630148	0.301438	0
505	LINC02487	4	1	2.338763	2.180424	OK	0	313.4188888	0.317835	0
506	LIPH	4	1	0.696611	1.137707	OK	0	328.1725215	0.332871	0
507	LPCAT4	4	1	0.042643	0.44259	OK	0	224.577213	0.227806	0
508	LRRC8A	4	1	0.365403	0.177683	OK	0	245.6056258	0.249141	0
509	LY6G6C	4	1	0.562589	1.142949	OK	0	270.3565806	0.274245	0
510	LYPD2	4	1	2.941634	2.830833	OK	0	625.1571043	0.634153	0
511	LYPD3	4	1	1.610132	0.84233	OK	0	476.2371706	0.483103	0
512	MAF	4	1	1.601965	-0.42772	OK	0	206.0983223	0.209063	0
513	MAFB	4	1	2.128156	-0.67614	OK	0	232.9020533	0.236254	0
514	MAL	4	1	2.821852	1.165321	OK	0	597.542185	0.606161	0
515	MAL2	4	1	1.590067	0.476338	OK	0	473.1410088	0.479962	0
516	MBOAT2	4	1	0.428182	0.634142	OK	0	367.9772419	0.373278	0
517	ME1	4	1	1.418652	0.551196	OK	0	214.381397	0.217458	0
518	MGLL	4	1	2.435697	-0.08866	OK	0	514.0350502	0.521448	0
519	MGST1	4	1	2.816962	-0.86092	OK	0	145.4212036	0.14751	0
520	MIR210HG	4	1	2.529175	1.486825	OK	0	188.879432	0.19159	0
521	MROH6	4	1	0.175719	1.77124	OK	0	189.8738339	0.192598	0
522	MSMO1	4	1	-0.96475	0.951216	OK	0	167.6398132	0.170048	0
523	MT1X	4	1	1.249869	-0.95343	OK	0	419.4349072	0.425482	0
524	MUC15	4	1	1.499438	-0.15659	OK	0	391.3346429	0.396974	0
525	MUC21	4	1	2.914217	1.215436	OK	0	699.7974673	0.709878	0
526	MUC4	4	1	0.076539	0.971408	OK	0	241.1563831	0.244621	0
527	MYH14	4	1	0.457549	0.138987	OK	0	368.9494007	0.374265	0
528	NAGK	4	1	2.319376	0.315768	OK	0	393.0135785	0.398679	0
529	NBEAL2	4	1	0.38379	0.043907	OK	0	277.5770228	0.281573	0
530	NDUFA4L2	4	1	2.797015	1.523151	OK	0	276.55743	0.280534	0
531	NQO1	4	1	2.804524	-0.76223	OK	0	235.9907708	0.239387	0
532	NUAK2	4	1	0.500038	0.875809	OK	0	134.9488258	0.13688	0
533	NUCB2	4	1	2.366095	0.279266	OK	0	442.5090941	0.448889	0
534	NUDT8	4	1	2.789125	-0.1283	OK	0	362.8969509	0.368127	0
535	OAS1	4	1	1.002852	0.851389	OK	0	234.2392558	0.23761	0
536	PALMD	4	1	2.44858	0.162384	OK	0	173.6776309	0.176173	0
537	PAQR8	4	1	2.650169	0.643744	OK	0	176.6039156	0.179127	0
538	PCDH1	4	1	0.242435	1.470965	OK	0	248.4782395	0.252048	0

539	PDLIM2	4	1	2.020938	1.288282	OK	0	267.415289	0.271266	0
540	PGD	4	1	0.832945	-0.03596	OK	0	352.5557302	0.357636	0
541	PHLDB3	4	1	0.85946	1.569552	OK	0	104.6262452	0.106123	0
542	PI3	4	1	0.651783	1.354279	OK	0	407.2748079	0.413141	0
543	PIM1	4	1	2.146766	1.915428	OK	0	263.4145094	0.267207	0
544	PLAC8	4	1	0.144597	0.950613	OK	0	419.7971349	0.425848	0
545	PLBD1	4	1	1.078558	1.830584	OK	0	281.9677579	0.286028	0
546	PMM1	4	1	2.155952	1.748419	OK	0	207.2343136	0.210215	0
547	PPM1K	4	1	1.83032	-0.58099	OK	0	138.4886736	0.140474	0
548	PPP1R3C	4	1	0.153254	1.807265	OK	0	237.4020019	0.240803	0
549	PRSS3	4	1	0.542852	1.180968	OK	0	629.5136468	0.638585	0
550	PTGR1	4	1	2.571143	-0.5481	OK	0	281.6081875	0.285664	0
551	PTN	4	1	1.697821	-0.68535	OK	0	326.1350535	0.330834	0
552	RAB10	4	1	1.839725	0.852698	OK	0	370.9534977	0.376298	0
553	RAET1E	4	1	1.454728	0.26924	OK	0	328.9915155	0.333727	0
554	RAET1L	4	1	0.805305	1.064348	OK	0	355.554163	0.360668	0
555	RASGRP1	4	1	-0.11482	0.029162	OK	0	246.8680743	0.250418	0
556	RBP1	4	1	2.246384	1.950141	OK	0	66.85399463	0.067804	0
557	RBP7	4	1	2.573333	1.235962	OK	0	209.4662368	0.212477	0
558	RHCG	4	1	1.694526	1.071362	OK	0	628.5327879	0.637594	0
559	RHOD	4	1	1.926361	1.449176	OK	0	296.7577027	0.301032	0
560	RTKN2	4	1	2.170628	2.034021	OK	0	206.497866	0.209466	0
561	S100A12	4	1	2.697557	2.427675	OK	0	288.4841636	0.292622	0
562	S100A14	4	1	2.043817	1.279993	OK	0	107.595503	0.109127	0
563	S100A4	4	1	1.69841	1.330493	OK	0	78.06581567	0.079181	0
564	S100A6	4	1	2.081936	1.355508	OK	0	175.1576173	0.177668	0
565	S100A7	4	1	0.506301	1.987516	OK	0	182.4658658	0.185082	0
566	S100A8	4	1	2.121369	-1.02203	OK	0	350.5692893	0.355615	0
567	SAMD5	4	1	1.96612	-0.2933	OK	0	212.2935678	0.215333	0
568	SBSN	4	1	1.09376	1.207814	OK	0	506.6516845	0.513957	0
569	SCD	4	1	-0.84	0.868824	OK	0	209.145983	0.212153	0
570	SCGB1A1	4	1	1.448553	0.937721	OK	0	85.4408255	0.086658	0
571	SCUBE2	4	1	0.044077	0.279219	OK	0	170.772135	0.17322	0
572	SDR16C5	4	1	1.681411	0.284152	OK	0	386.9208303	0.392498	0
573	SERPINB1	4	1	2.124381	0.752238	OK	0	461.2169169	0.467864	0
574	SERPINB11	4	1	2.617615	0.656965	OK	0	75.04807329	0.07611	0
575	SERPINB6	4	1	1.261897	1.348104	OK	0	302.9232283	0.307287	0
576	SF3B3	4	1	2.726534	1.47483	OK	0	169.2326086	0.171664	0
577	SFTA2	4	1	2.84756	2.707777	OK	0	484.0419175	0.490961	0
578	SH3GL1	4	1	0.254033	1.882952	OK	0	270.8452574	0.274745	0
579	SHROOM3	4	1	2.253306	2.040335	OK	0	238.2262222	0.241646	0
580	SLC26A2	4	1	1.112813	-0.32135	OK	0	257.2039339	0.260906	0
581	SLC35C1	4	1	0.980234	1.880277	OK	0	194.9546313	0.197755	0
582	SLPI	4	1	0.859083	1.300873	OK	0	544.0574276	0.551905	0
583	SLURP1	4	1	2.829994	1.155083	OK	0	594.8192823	0.603392	0
584	SMAGP	4	1	1.520575	1.925748	OK	0	349.3645672	0.354399	0
585	SMIM5	4	1	1.426348	1.577802	OK	0	487.5480726	0.494577	0
586	SNX31	4	1	0.59056	0.757567	OK	0	219.0628636	0.222205	0
587	SPAG17	4	1	1.737239	-0.26933	OK	0	227.284024	0.230549	0
588	SPINK5	4	1	1.724913	0.030584	OK	0	579.7515218	0.588112	0
589	SPINK7	4	1	3.047699	2.812878	OK	0	605.8485447	0.614539	0
590	SPRR1A	4	1	1.754708	1.922407	OK	0	392.3951057	0.398041	0
591	SPRR1B	4	1	0.537958	1.829924	OK	0	378.2818572	0.383733	0
592	SPRR2A	4	1	0.230627	2.248157	OK	0	310.9490761	0.315425	0
593	SPRR2D	4	1	0.228177	2.289025	OK	0	378.9342593	0.384366	0
594	SPRR2E	4	1	0.292071	2.122066	OK	0	232.6424019	0.235981	0
595	SPRR2F	4	1	0.327571	2.066921	OK	0	45.12483153	0.045674	0
596	SPRR3	4	1	0.452652	0.557017	OK	0	489.8141973	0.496877	0
597	SQLE	4	1	-0.96074	0.928281	OK	0	238.350283	0.241781	0
598	SRPX2	4	1	2.283137	2.374033	OK	0	261.7557817	0.265484	0

599 ST3GAL4	4	1	2.348349	2.099585	OK	0	460.4004572	0.466986	0
600 STN1	4	1	1.917301	2.140529	OK	0	313.9247032	0.318446	0
601 SUCO	4	1	2.346721	0.310317	OK	0	66.78028391	0.067731	0
602 SULT2B1	4	1	1.283355	0.90419	OK	0	550.0032649	0.557936	0
603 TGM1	4	1	1.230725	0.828541	OK	0	437.7703088	0.44408	0
604 TGM3	4	1	2.873058	1.111881	OK	0	660.8776151	0.670402	0
605 TM7SF2	4	1	0.997985	1.042426	OK	0	508.0459673	0.515371	0
606 TMEM154	4	1	1.304725	0.400205	OK	0	331.3103783	0.336084	0
607 TMEM184	4	1	0.453562	0.09951	OK	0	257.9570182	0.261668	0
608 TMEM265	4	1	1.326204	1.658581	OK	0	382.3852645	0.387895	0
609 TMEM45B	4	1	0.345424	0.973879	OK	0	457.9010382	0.464497	0
610 TMEM79	4	1	1.57528	0.764211	OK	0	280.1790486	0.284214	0
611 TMPRSS11	4	1	2.823402	2.631305	OK	0	713.8195537	0.724078	0
612 TP53I3	4	1	2.734518	0.933128	OK	0	274.306019	0.278255	0
613 TPRG1	4	1	2.007654	1.882388	OK	0	530.754327	0.538401	0
614 TRNP1	4	1	0.038939	0.50024	OK	0	420.8161194	0.426882	0
615 TSPAN3	4	1	-0.11122	0.357103	OK	0	278.3696823	0.282379	0
616 TST	4	1	1.293028	1.491884	OK	0	360.9137332	0.366115	0
617 TUBA4A	4	1	2.469003	0.029911	OK	0	300.8033343	0.305136	0
618 UPK1B	4	1	0.215961	0.890304	OK	0	147.9459828	0.150053	0
619 UPK3BL1	4	1	1.404048	1.797196	OK	0	359.6832323	0.364866	0
620 VAT1	4	1	0.079908	1.560359	OK	0	294.9174343	0.299164	0
621 WNK4	4	1	1.570086	-0.22962	OK	0	226.5163455	0.229769	0
622 WNT5A	4	1	1.877451	-0.10791	OK	0	161.7628873	0.164081	0
623 ZBED2	4	1	2.91416	1.823195	OK	0	136.8986165	0.138827	0
624 ZDHHC21	4	1	1.375249	0.227309	OK	0	77.28935721	0.078391	0
625 ABLIM1	5	1	-0.21718	3.794879	OK	0	327.5709265	0.332291	0
626 ABLIM3	5	1	1.503048	4.188348	OK	0	422.3491115	0.428383	0
627 AC004816.	5	1	1.851445	3.969704	OK	0	241.5058012	0.244973	0
628 AC006333.	5	1	2.135271	4.528072	OK	0	96.67960308	0.098057	0
629 ACADM	5	1	1.650184	3.311115	OK	0	177.5233061	0.180075	0
630 ADGRF1	5	1	0.548775	3.839283	OK	0	319.8729142	0.324472	0
631 ADIPOR1	5	1	1.811903	3.611346	OK	0	169.9591125	0.172402	0
632 ADIRF	5	1	2.665995	3.774622	OK	0	311.1721144	0.315655	0
633 AFDN	5	1	-0.8059	3.313125	OK	0	299.8386758	0.304158	0
634 AGFG2	5	1	0.393171	3.175922	OK	0	118.2191598	0.119908	0
635 AIF1L	5	1	2.70897	3.52031	OK	0	559.0065887	0.567029	0
636 AL121761.	5	1	0.752995	2.716315	OK	0	390.2613009	0.395876	0
637 AL121933.	5	1	0.371199	2.828874	OK	0	116.2867347	0.117875	0
638 AL133453.	5	1	0.284853	3.984752	OK	0	164.2049455	0.166556	0
639 AL512274.	5	1	-0.38873	3.327168	OK	0	202.180458	0.205084	0
640 AL627171.	5	1	0.66012	3.449998	OK	2.57E-119	23.19471124	0.023516	2.59E-119
641 ALDH1A3	5	1	0.683516	4.196034	OK	0	343.992798	0.348919	0
642 ANGPTL4	5	1	0.859333	2.25081	OK	0	101.3838166	0.102834	0
643 ANXA11	5	1	1.525562	3.458153	OK	0	232.8567725	0.236208	0
644 ANXA9	5	1	1.158595	3.677791	OK	0	569.6644374	0.577825	0
645 AP000866.	5	1	2.281986	4.074777	OK	0	282.3087951	0.286275	0
646 ARHGAP27	5	1	0.6042	3.512483	OK	0	161.8326417	0.164152	0
647 ARHGDIB	5	1	1.870289	3.002141	OK	0	101.4788249	0.102926	0
648 ATP6V1C2	5	1	0.852707	4.168924	OK	0	489.3704892	0.496324	0
649 AVPI1	5	1	1.252371	5.156239	OK	0	86.16357186	0.087393	0
650 B3GNT3	5	1	0.959854	3.224969	OK	0	409.9786668	0.415811	0
651 B3GNT8	5	1	0.836993	2.476716	OK	0	131.5788502	0.133463	0
652 B4GALT5	5	1	0.114756	3.200645	OK	0	121.3325945	0.123071	0
653 BAIAP2L2	5	1	2.360196	3.156896	OK	0	204.8559365	0.207764	0
654 BCAS1	5	1	0.791617	2.966411	OK	0	226.2373063	0.229458	0
655 BICDL1	5	1	1.411277	4.532831	OK	0	89.13088503	0.090403	0
656 BX255925.	5	1	1.477151	2.671067	OK	0	227.5627156	0.230835	0
657 C15orf62	5	1	1.008478	3.177142	OK	0	272.4061085	0.276294	0
658 C1orf116	5	1	-0.06089	3.797162	OK	0	260.1860847	0.263932	0

659 C5orf66-AS	5	1	2.320604	4.171162	OK	0	177.4219913	0.179972	0
660 C6orf132	5	1	1.550416	4.281843	OK	0	324.951936	0.329634	0
661 CAMK2N1	5	1	1.366101	3.570694	OK	0	720.0195302	0.73036	0
662 CAPN5	5	1	0.659942	3.134356	OK	0	206.50282	0.209451	0
663 CASP8	5	1	1.744439	4.656468	OK	0	51.36895228	0.052097	0
664 CCDC127	5	1	1.84141	3.403882	OK	0	88.04063806	0.089296	0
665 CCNG2	5	1	0.089775	3.817275	OK	0	309.511388	0.313961	0
666 CD59	5	1	1.786743	2.361181	OK	0	285.6603327	0.289774	0
667 CD68	5	1	1.048224	2.470703	OK	0	146.6964098	0.148798	0
668 CDC42EP5	5	1	1.02867	2.805127	OK	0	119.8495075	0.121568	0
669 CDKN2AIP	5	1	-0.60176	3.547562	OK	0	181.2291134	0.183835	0
670 CEACAM7	5	1	0.550713	2.842703	OK	0	121.9883098	0.123644	0
671 CFL2	5	1	2.030293	3.209031	OK	1.09E-290	36.41840935	0.036928	1.10E-290
672 CKB	5	1	2.001853	3.755931	OK	0	120.3262199	0.122052	0
673 CLIP1	5	1	-0.85947	2.905122	OK	0	309.4371327	0.313895	0
674 CPEB4	5	1	-0.2317	3.266992	OK	0	169.5389228	0.171973	0
675 CPPED1	5	1	2.085446	3.735493	OK	0	163.1978539	0.165542	0
676 CRYM	5	1	1.917867	4.557876	OK	0	364.347147	0.369392	0
677 CTSV	5	1	1.107496	3.798141	OK	0	224.6085663	0.227823	0
678 CTTNBP2N	5	1	-0.71848	3.646636	OK	0	153.6084369	0.155814	0
679 CTTOR	5	1	1.116177	3.802751	OK	0	142.4010132	0.144432	0
680 DDIT4	5	1	0.896958	2.290771	OK	0	66.00636315	0.066947	0
681 DENND10	5	1	1.980604	2.828616	OK	0	144.8079838	0.146887	0
682 DHRS9	5	1	1.585833	4.68469	OK	0	693.6118164	0.703454	0
683 DNAJA4	5	1	-0.55824	2.998199	OK	0	74.40412268	0.075464	0
684 DNAJC5	5	1	1.229144	3.947332	OK	0	138.0881593	0.140069	0
685 DOCK9	5	1	-0.41522	3.633717	OK	0	144.7966763	0.146873	0
686 DTX2	5	1	0.69056	3.525753	OK	0	121.0784942	0.122814	0
687 DUOX2	5	1	0.207683	2.870212	OK	0	90.99370595	0.092289	0
688 DUOXA2	5	1	0.234776	2.687604	OK	0	97.45812282	0.098786	0
689 DUSP4	5	1	1.816091	4.581932	OK	0	385.3263131	0.390708	0
690 ELF3	5	1	1.00227	2.629482	OK	0	306.605412	0.311022	0
691 ELF3-AS1	5	1	1.94126	4.355634	OK	0	278.6263531	0.282592	0
692 EPS8L1	5	1	0.754542	3.745923	OK	0	529.1657014	0.536786	0
693 EPS8L2	5	1	1.287297	3.232457	OK	0	231.9668079	0.235305	0
694 ESAM	5	1	1.521073	4.614385	OK	0	512.8087214	0.520027	0
695 FAM107B	5	1	1.112191	4.82698	OK	0	177.8900624	0.18043	0
696 FBXO32	5	1	1.164076	4.145256	OK	0	223.7851275	0.227002	0
697 FBXO34	5	1	-0.49435	3.499713	OK	0	138.5374189	0.140525	0
698 FBXW11	5	1	-0.57365	3.765322	OK	0	83.83945136	0.085037	0
699 FCHO2	5	1	-0.79349	3.428331	OK	0	219.8072272	0.222969	0
700 FRMD4B	5	1	-0.86873	2.61828	OK	0	234.6813625	0.238059	0
701 FTH1	5	1	2.290753	4.189312	OK	0	204.1897415	0.20712	0
702 FUT3	5	1	0.442447	3.280182	OK	0	413.1890585	0.419138	0
703 FUT6	5	1	0.545535	3.329131	OK	0	382.9857088	0.38848	0
704 GABARAPL	5	1	2.326746	4.353869	OK	0	237.2393712	0.240654	0
705 GALNT1	5	1	-0.6475	3.675255	OK	0	263.3999098	0.267192	0
706 GCC2	5	1	-0.07907	3.961014	OK	0	100.5941233	0.102034	0
707 GCHFR	5	1	1.234853	3.585375	OK	0	226.9033018	0.230168	0
708 GFOD2	5	1	0.210803	3.698658	OK	0	99.32999089	0.100749	0
709 GMDS	5	1	2.136051	2.48588	OK	0	239.7198196	0.243167	0
710 GNA15	5	1	1.357638	3.187749	OK	0	264.9053798	0.268719	0
711 GPRC5A	5	1	1.185082	4.240656	OK	0	212.3383391	0.215374	0
712 GPT2	5	1	1.065449	3.264035	OK	0	174.4665032	0.176973	0
713 GRHL1	5	1	-0.45495	2.886757	OK	0	353.7192684	0.358814	0
714 H19	5	1	1.840775	2.769955	OK	0	137.5867092	0.139557	0
715 H1FO	5	1	0.761058	2.470833	OK	0	189.7791318	0.192508	0
716 H2AFJ	5	1	2.400451	4.163906	OK	0	269.0300459	0.272904	0
717 HEBP2	5	1	2.182239	3.286149	OK	0	362.6946454	0.367919	0
718 HLCS	5	1	2.068586	4.209117	OK	0	85.73277037	0.086951	0

719 HMOX1	5	1	0.779808	4.198033	OK	0	448.5879042	0.454981	0
720 HOTAIRM1	5	1	2.213121	4.560225	OK	0	95.55791247	0.096925	0
721 HS3ST6	5	1	2.336584	4.240201	OK	0	144.1704474	0.146236	0
722 HSPB8	5	1	0.30416	3.347195	OK	0	271.3592445	0.275262	0
723 IL1A	5	1	1.546709	4.849163	OK	0	257.9598712	0.261593	0
724 IL36A	5	1	1.322486	4.879153	OK	0	602.4112865	0.610955	0
725 IL36RN	5	1	0.264174	2.664308	OK	0	221.0506508	0.224128	0
726 ITSX2	5	1	-0.66939	3.280333	OK	0	203.8113867	0.206742	0
727 KATNBL1	5	1	1.925369	3.441823	OK	0	164.5362015	0.1669	0
728 KAZN	5	1	1.359249	3.553072	OK	0	247.0795528	0.250635	0
729 KIFC3	5	1	1.571456	4.702668	OK	0	263.9422913	0.267695	0
730 KRT23	5	1	0.871363	2.97825	OK	0	194.875347	0.19761	0
731 KRT7	5	1	1.646416	2.87513	OK	0	200.9638865	0.203845	0
732 KRT80	5	1	-0.29523	2.774517	OK	0	433.1171235	0.439351	0
733 LEXM	5	1	1.272289	3.287549	OK	0	311.254817	0.315634	0
734 LGALS3	5	1	2.16017	4.488221	OK	0	222.8252583	0.226024	0
735 LINC02303	5	1	2.070167	3.185497	OK	0	360.8859439	0.365871	0
736 LIPE-AS1	5	1	2.196977	3.699196	OK	0	105.8625952	0.107358	0
737 LMO2	5	1	0.924346	2.913144	OK	0	290.3298077	0.294458	0
738 LMO7	5	1	-0.66431	3.485337	OK	0	335.8673351	0.340707	0
739 LPIN2	5	1	0.891192	4.190341	OK	0	253.9798394	0.257589	0
740 LRG1	5	1	0.588316	2.907019	OK	0	63.62816472	0.064533	0
741 LY6K	5	1	2.176342	4.376997	OK	0	109.3602321	0.110926	0
742 MAB21L4	5	1	1.804627	2.646532	OK	0	455.2922248	0.461857	0
743 MACC1	5	1	-0.33058	3.607851	OK	0	166.5992575	0.168991	0
744 MALL	5	1	-0.33501	3.737777	OK	0	505.074935	0.512359	0
745 MAP1LC3A	5	1	2.415849	4.099238	OK	0	233.0291241	0.236371	0
746 MAPK3	5	1	1.143363	3.356911	OK	0	183.2077446	0.18584	0
747 MAPK8	5	1	1.438809	4.940138	OK	0	77.64106605	0.078747	0
748 5-Mar	5	1	2.121731	4.037055	OK	0	186.8426922	0.189529	0
749 MDFIC	5	1	1.650656	3.576622	OK	0	93.29667592	0.09463	0
750 METRNL	5	1	1.661726	3.070854	OK	0	465.5651301	0.472278	0
751 MGAT1	5	1	1.345755	3.920425	OK	0	152.810058	0.155004	0
752 MPRIP	5	1	1.50643	4.165703	OK	0	145.1902765	0.147274	0
753 MPZL3	5	1	0.423167	3.243093	OK	0	186.8303627	0.1895	0
754 MTERF4	5	1	2.188768	3.515887	OK	0	73.91733955	0.074972	0
755 MUC1	5	1	0.063736	3.389034	OK	0	432.0390421	0.438262	0
756 MUC20	5	1	1.590833	2.764943	OK	0	325.1346702	0.329816	0
757 MUC22	5	1	1.379609	4.635846	OK	0	304.9171991	0.309142	0
758 MXD1	5	1	0.794135	4.421854	OK	0	351.7035145	0.356769	0
759 MYEOV	5	1	2.141989	3.434928	OK	0	254.0325606	0.25768	0
760 MYL12A	5	1	2.239586	3.458912	OK	0	297.2749322	0.301554	0
761 MYO5B	5	1	-0.29807	2.8949	OK	0	232.9744069	0.236323	0
762 MYO6	5	1	-0.58755	4.048232	OK	0	214.7233112	0.217812	0
763 NAMPT	5	1	-0.50679	3.149124	OK	0	299.2756443	0.303587	0
764 NAPRT	5	1	1.497659	3.194599	OK	0	262.3857703	0.266164	0
765 NCCRP1	5	1	1.198091	2.270749	OK	0	630.7482515	0.639842	0
766 NDRG2	5	1	0.029267	3.900654	OK	0	271.247373	0.275152	0
767 NIBAN2	5	1	1.78778	2.769645	OK	0	359.8871766	0.365074	0
768 NT5C2	5	1	-0.06407	3.433455	OK	0	191.4711457	0.194223	0
769 PCBP1-AS1	5	1	2.084336	3.004049	OK	0	92.19801988	0.093511	0
770 PDCD6	5	1	2.024525	3.328223	OK	0	280.1072271	0.28414	0
771 PHACTR4	5	1	-0.50647	3.799765	OK	0	159.9734864	0.162272	0
772 PHLDA1	5	1	0.952496	4.285964	OK	0	463.6616327	0.47033	0
773 PLEKHM1	5	1	0.317324	3.406489	OK	0	113.0244293	0.114641	0
774 PLIN3	5	1	1.379777	4.410369	OK	0	177.4883491	0.18004	0
775 PLSCR1	5	1	1.587247	3.427526	OK	0	141.7868003	0.143822	0
776 PORCN	5	1	1.56907	4.42071	OK	0	63.14920094	0.064041	0
777 PDPDF	5	1	2.374848	3.995792	OK	0	187.5298512	0.19022	0
778 PPP1R14B-	5	1	1.82749	2.408816	OK	0	171.1926783	0.173651	0

779 PRDM1	5	1	-0.24971	2.779587	OK	0	346.0109725	0.35099	0
780 PRSS22	5	1	0.868889	2.496705	OK	0	284.1912347	0.288283	0
781 PRSS27	5	1	1.380203	2.34829	OK	0	644.7511215	0.654044	0
782 PRSS8	5	1	0.802625	3.794003	OK	0	116.5088726	0.118179	0
783 PSCA	5	1	2.35008	4.001967	OK	0	578.3721199	0.586677	0
784 PTK6	5	1	0.200677	3.203274	OK	0	341.5986134	0.346519	0
785 PWWP2B	5	1	1.057336	3.463561	OK	0	82.89897147	0.084081	0
786 RAB5IF	5	1	2.120733	2.949411	OK	0	356.1051098	0.361236	0
787 RAB9A	5	1	2.194157	4.534154	OK	0	166.2163694	0.168605	0
788 RANBP9	5	1	-0.24236	3.762839	OK	0	202.9141436	0.205831	0
789 RFK	5	1	1.717212	4.748087	OK	0	120.8421224	0.122573	0
790 RHOF	5	1	1.457303	3.943709	OK	0	222.8249627	0.225977	0
791 RNF223	5	1	1.050098	4.393172	OK	0	340.3687653	0.345252	0
792 RNF39	5	1	1.393121	4.611402	OK	0	119.0689491	0.120769	0
793 S100P	5	1	0.621184	2.987616	OK	0	484.7854691	0.491768	0
794 SAMD9	5	1	0.108711	3.801657	OK	0	311.5740276	0.316063	0
795 SAMD9L	5	1	0.061001	3.980484	OK	0	49.42289159	0.050122	0
796 SAT1	5	1	1.854859	2.707714	OK	0	187.8987578	0.190599	0
797 SCEL	5	1	-0.19999	3.733634	OK	0	581.4354464	0.589823	0
798 SCNN1A	5	1	-0.00666	3.139956	OK	0	258.2221932	0.261939	0
799 SDCBP2	5	1	2.066228	3.755651	OK	0	422.0514287	0.428135	0
800 SDHA	5	1	1.821548	3.494744	OK	0	136.0052107	0.137957	0
801 SEC24C	5	1	0.61069	3.386855	OK	0	88.05993781	0.089317	0
802 SERINC2	5	1	1.80268	3.990841	OK	0	193.086298	0.195862	0
803 SERPINB13	5	1	-0.93278	2.497324	OK	0	412.3513152	0.418295	0
804 SGTA	5	1	1.079404	3.86509	OK	0	71.36433426	0.072381	0
805 SH3BGRL2	5	1	0.390353	4.000653	OK	0	472.1057588	0.478901	0
806 SLC16A3	5	1	1.170061	3.080048	OK	0	192.9056967	0.195649	0
807 SLC25A23	5	1	0.346444	3.508048	OK	0	179.6251488	0.182207	0
808 SLC9A3R2	5	1	2.348631	4.31608	OK	0	84.21810082	0.085418	0
809 SLK	5	1	-0.81044	3.252818	OK	0	321.1278672	0.325755	0
810 SLURP2	5	1	1.894557	2.564852	OK	0	602.1832332	0.610864	0
811 SMIM22	5	1	1.180317	2.798591	OK	0	84.16330774	0.085354	0
812 SNCG	5	1	2.554073	3.84925	OK	0	289.5755367	0.293724	0
813 SNX24	5	1	2.420009	3.822438	OK	0	207.5905829	0.210576	0
814 SNX8	5	1	1.358911	3.326992	OK	0	97.14405305	0.098528	0
815 SORBS2	5	1	0.783658	2.88426	OK	0	61.31761275	0.062186	0
816 SORT1	5	1	-0.33217	2.948587	OK	0	431.0424572	0.437252	0
817 SPAG1	5	1	0.931965	3.899994	OK	0	231.9243405	0.235246	0
818 SPECC1	5	1	1.182206	4.404376	OK	0	215.8631206	0.218955	0
819 SPINT1	5	1	1.243959	3.191832	OK	0	258.9356485	0.262664	0
820 SPNS2	5	1	1.044174	4.720157	OK	0	761.2272175	0.772107	0
821 SPRR2B	5	1	0.264666	2.428786	OK	0	93.96744768	0.095105	0
822 SPSB3	5	1	2.275677	4.124184	OK	0	134.1963623	0.136122	0
823 SRGAP1	5	1	0.717617	3.138111	OK	0	162.3382386	0.164657	0
824 SRSF5	5	1	1.515917	3.191329	OK	0	263.4900155	0.267284	0
825 STK39	5	1	-0.45692	2.962277	OK	0	272.3405255	0.27626	0
826 STRADB	5	1	1.968378	4.183064	OK	0	105.2190489	0.106721	0
827 SYAP1	5	1	-0.46349	3.983084	OK	0	161.8119811	0.164137	0
828 TAX1BP1	5	1	-0.75498	3.994061	OK	0	344.2932369	0.349254	0
829 TGFA	5	1	0.100981	3.936362	OK	0	102.6043849	0.104069	0
830 TGFB1	5	1	0.698172	2.55398	OK	0	130.7056169	0.132578	0
831 TIMP2	5	1	2.07942	4.107532	OK	0	764.7726239	0.775709	0
832 TJP1	5	1	-0.87765	3.114618	OK	0	339.8626254	0.34476	0
833 TJP3	5	1	0.947805	2.869461	OK	0	221.3523421	0.224532	0
834 TMEM127	5	1	0.665525	3.56113	OK	0	103.4900656	0.10497	0
835 TMEM40	5	1	2.52876	3.960896	OK	0	485.0987622	0.492094	0
836 TMEM8A	5	1	1.090903	3.311615	OK	0	104.2874945	0.105775	0
837 TMPRSS11	5	1	-0.06506	2.814024	OK	0	302.1537244	0.306503	0
838 TMPRSS11	5	1	0.417922	3.994252	OK	0	634.0384728	0.643171	0

839	TMPRSS2	5	1	0.472113	4.025514	OK	0	389.1246995	0.394696	0
840	TP53INP2	5	1	0.531974	3.888636	OK	0	304.4155496	0.308773	0
841	TRIP10	5	1	0.530346	3.708187	OK	0	328.0358406	0.33276	0
842	TSPAN6	5	1	1.738747	2.806931	OK	0	263.4586299	0.26725	0
843	TTC22	5	1	0.462347	3.264755	OK	0	177.7604196	0.180313	0
844	TTC9	5	1	0.878832	3.969417	OK	0	435.4616317	0.441737	0
845	TTYH1	5	1	1.150912	3.766236	OK	0	344.0595602	0.34894	0
846	UACA	5	1	-0.84764	3.453666	OK	0	191.9155807	0.194675	0
847	UBE2D1	5	1	2.084018	3.717723	OK	0	123.5960563	0.125368	0
848	UBL3	5	1	-0.26175	3.669374	OK	0	216.1318563	0.219241	0
849	UPK3B	5	1	2.369172	3.07044	OK	0	434.2684569	0.440492	0
850	VASN	5	1	0.761317	3.646885	OK	0	306.1249153	0.310486	0
851	VSIG10	5	1	1.646806	3.884756	OK	0	101.6243571	0.103076	0
852	VSIG10L	5	1	0.533208	3.115912	OK	0	408.1557926	0.414023	0
853	VSIG2	5	1	2.261975	3.558542	OK	0	609.2245601	0.617912	0
854	WDR26	5	1	-0.37237	3.645668	OK	0	158.0215038	0.16029	0
855	WDR45B	5	1	-0.68458	3.321651	OK	0	179.6375217	0.18222	0
856	YPEL3	5	1	2.103713	4.032508	OK	0	169.9387242	0.172381	0
857	ZFAND2A	5	1	2.303498	4.45271	OK	7.89E-303	37.17746599	0.037701	8.00E-303
858	ZFAND5	5	1	0.997223	4.390746	OK	0	220.1789921	0.223347	0
859	ZNF101	5	1	2.071027	4.206877	OK	0	91.93897505	0.093244	0
860	ZNF185	5	1	-0.11033	3.275476	OK	0	389.9671791	0.395588	0
861	ZNRF1	5	1	2.361413	4.01704	OK	0	218.7315085	0.221879	0
862	AC023157.	6	1	0.654477	5.484818	OK	0	104.1856252	0.105675	0
863	ACOX1	6	1	-0.45764	4.56818	OK	0	217.4989344	0.220627	0
864	ADIPOR2	6	1	0.631732	4.765007	OK	0	179.564683	0.182145	0
865	AMOTL2	6	1	-0.26919	4.415826	OK	0	69.07158248	0.070055	0
866	ANKRD13A	6	1	-0.16876	4.462662	OK	0	113.9198441	0.115552	0
867	ANKRD37	6	1	0.94784	5.604868	OK	0	167.7151696	0.170125	0
868	ARHGAP10	6	1	0.234525	4.402782	OK	0	207.7814854	0.210769	0
869	ARL4C	6	1	0.452183	4.74883	OK	0	180.6920978	0.183289	0
870	ASCC2	6	1	0.639094	5.42503	OK	0	123.0272127	0.124791	0
871	ATG9B	6	1	0.574758	4.585546	OK	0	537.9230503	0.545572	0
872	BPGM	6	1	0.162323	5.505266	OK	0	48.0966126	0.048777	0
873	C18orf25	6	1	0.468652	5.148888	OK	0	201.5397077	0.204433	0
874	CDKL5	6	1	-0.20618	4.554295	OK	0	91.96738186	0.093275	0
875	CFLAR	6	1	0.583019	5.199415	OK	0	142.281627	0.144324	0
876	CGNL1	6	1	0.820019	4.883241	OK	0	545.4976824	0.553242	0
877	CHAC1	6	1	-0.01431	5.09707	OK	0	280.486403	0.284308	0
878	CITED2	6	1	0.685853	5.244548	OK	0	129.654138	0.131514	0
879	CNST	6	1	0.580458	5.115193	OK	0	117.2043621	0.118879	0
880	CSNK1E	6	1	0.114267	4.935921	OK	0	129.6477081	0.131506	0
881	DKK1	6	1	0.65997	5.518457	OK	0	336.7215333	0.341411	0
882	DUSP14	6	1	0.223446	5.654048	OK	0	102.7899874	0.104261	0
883	DUSP5	6	1	0.543382	5.326819	OK	0	331.9651945	0.336738	0
884	ERO1A	6	1	0.795767	4.57673	OK	0	347.3011844	0.352302	0
885	FAM214A	6	1	0.253163	4.863839	OK	0	191.4079091	0.194155	0
886	FLG	6	1	0.21221	5.657109	OK	0	325.6668067	0.330273	0
887	GNE	6	1	-0.18452	4.501211	OK	0	98.67681552	0.100075	0
888	GPAT3	6	1	-0.10053	4.944178	OK	0	312.9460905	0.317343	0
889	GRPEL2	6	1	0.849469	5.273012	OK	0	311.9734578	0.316444	0
890	HCG22	6	1	0.667227	5.208042	OK	0	389.00955	0.394543	0
891	HILPDA	6	1	0.87843	5.501628	OK	0	250.1113345	0.253702	0
892	IL1RN	6	1	0.58372	5.044149	OK	0	450.6357138	0.457133	0
893	ITGB8	6	1	-0.11459	4.204758	OK	0	136.1836871	0.138138	0
894	KPRP	6	1	0.71485	5.559824	OK	0	276.705257	0.280506	0
895	KRT16	6	1	-0.2535	5.099516	OK	0	250.291273	0.253895	0
896	KRTAP3-2	6	1	1.176404	6.71268	OK	0	183.2759151	0.185607	0
897	LNK1	6	1	0.6567	4.788741	OK	0	185.9705633	0.188637	0
898	LPIN1	6	1	0.49636	4.964568	OK	0	466.4110305	0.473084	0

899	MACO1	6	1	0.359179	4.90566	OK	0	114.9008094	0.116547	0
900	MCU	6	1	0.35528	4.623194	OK	0	116.4249278	0.118089	0
901	MT1A	6	1	1.203329	6.768424	OK	0	76.09390949	0.07693	0
902	MT1E	6	1	1.213834	6.769074	OK	0	390.9570623	0.396593	0
903	MT1F	6	1	1.210291	6.774556	OK	0	72.21828667	0.07324	0
904	MT1G	6	1	1.228783	6.795896	OK	0	285.1050767	0.2892	0
905	MT1H	6	1	1.194084	6.752085	OK	0	279.0143532	0.282987	0
906	MT1M	6	1	1.237857	6.802794	OK	0	161.0983657	0.16339	0
907	MT2A	6	1	1.250069	6.821646	OK	0	466.5079858	0.473235	0
908	MYZAP	6	1	0.263878	4.836772	OK	0	320.8284676	0.32542	0
909	NABP1	6	1	0.434566	5.238608	OK	0	127.0786783	0.1289	0
910	NEDD4L	6	1	-0.07737	4.443242	OK	0	82.95396745	0.084137	0
911	NR1D1	6	1	1.081408	6.453282	OK	0	96.46358663	0.097841	0
912	OXSRI	6	1	-0.25546	4.587452	OK	0	137.6766898	0.139652	0
913	PADI1	6	1	0.139826	4.762465	OK	0	435.3303383	0.441577	0
914	PARD6B	6	1	-0.1064	4.56817	OK	0	138.7384022	0.140726	0
915	PDP1	6	1	-0.10933	4.360188	OK	0	65.35033446	0.06628	0
916	PDZD2	6	1	-0.12244	4.343046	OK	0	78.1201569	0.079233	0
917	PELI1	6	1	-0.10783	4.880102	OK	0	150.4246262	0.152583	0
918	PHACTR2	6	1	-0.07845	4.995728	OK	0	203.3841078	0.206309	0
919	PPL	6	1	-0.50209	4.450413	OK	0	426.5544047	0.432704	0
920	PTPN3	6	1	-0.28792	4.71844	OK	0	81.25068811	0.08241	0
921	QSOX1	6	1	0.291849	5.440802	OK	0	294.215965	0.298448	0
922	RASGEF1B	6	1	0.600836	5.473722	OK	0	135.6035204	0.137539	0
923	RIOK3	6	1	-0.62499	4.121132	OK	0	330.2011143	0.334958	0
924	RMND5A	6	1	0.270898	4.99914	OK	0	151.8914784	0.154072	0
925	RNASE7	6	1	0.201578	5.575142	OK	0	602.393195	0.610916	0
926	RNF169	6	1	0.384669	4.670601	OK	0	131.59774	0.133485	0
927	SASH1	6	1	-0.40658	4.257826	OK	0	231.7463291	0.235081	0
928	SEC14L1	6	1	0.381333	4.559777	OK	0	122.4094454	0.124162	0
929	SECISBP2L	6	1	-0.36416	4.571112	OK	0	174.6378579	0.177145	0
930	SESN2	6	1	0.709718	5.434245	OK	0	176.021871	0.178534	0
931	SH3D19	6	1	-0.3114	4.144282	OK	0	99.98079513	0.101411	0
932	SLC20A2	6	1	-0.28897	4.951072	OK	0	112.7618792	0.114377	0
933	SNX9	6	1	0.589619	5.014684	OK	0	213.368937	0.216437	0
934	SYNPO2L	6	1	0.628094	5.540041	OK	0	228.9929963	0.232066	0
935	TCP11L2	6	1	0.793559	4.927032	OK	0	275.0539928	0.279	0
936	TEAD1	6	1	-0.36468	4.406013	OK	0	137.5743625	0.139547	0
937	TICAM1	6	1	0.624626	4.888031	OK	0	157.9724732	0.160237	0
938	TMOD3	6	1	-0.64278	4.180426	OK	0	357.3484758	0.362498	0
939	TNIP1	6	1	-0.39878	4.572251	OK	0	186.0050496	0.188679	0
940	TP53BP2	6	1	0.026254	4.778004	OK	0	106.268608	0.107789	0
941	TRIM2	6	1	0.020364	4.50175	OK	0	176.6294491	0.179154	0
942	TUFT1	6	1	-0.25342	4.955034	OK	0	107.4780284	0.109016	0
943	UBE2G1	6	1	0.755913	4.739602	OK	0	158.3813099	0.160656	0
944	UPP1	6	1	0.987655	5.478302	OK	0	276.4968601	0.280478	0
945	USP53	6	1	-0.2943	4.19818	OK	0	110.5725745	0.112156	0
946	USP6NL	6	1	-0.14036	4.18733	OK	0	222.892655	0.226096	0
947	VPS37B	6	1	-0.27223	4.80607	OK	0	195.324401	0.198132	0
948	WWC1	6	1	-0.35907	4.546819	OK	0	144.8576233	0.146932	0
949	YOD1	6	1	0.466948	5.4359	OK	0	269.6401227	0.27351	0
950	ZNF365	6	1	0.819224	5.448735	OK	0	540.6312193	0.548272	0
951	ZNF426	6	1	0.16132	5.103724	OK	0	153.103905	0.155296	0
952	ZNF430	6	1	0.226499	5.644871	OK	0	64.31879868	0.065234	0
953	ZNF431	6	1	0.287737	5.576567	OK	0	177.384566	0.179932	0
954	ZNF714	6	1	0.213168	5.632364	OK	0	66.0553414	0.066993	0
955	ZNF92	6	1	0.212482	5.639435	OK	0	78.66965378	0.079788	0
956	ALOX15	7	1	-0.32891	-0.23817	OK	0	434.6651069	0.44093	0
957	ANO1	7	1	-0.14253	-0.50269	OK	0	320.4936555	0.325111	0
958	APOL1	7	1	-0.09545	-1.11637	OK	0	136.483189	0.13844	0

959 ARNTL2	7	1	-0.19849	-0.43845	OK	0	264.2569026	0.268061	0
960 ATP13A5	7	1	-0.51693	-0.85023	OK	0	130.64077	0.132511	0
961 ATP8B1	7	1	0.089923	-0.57546	OK	0	230.211679	0.233524	0
962 BCL2L15	7	1	-0.49916	-0.51159	OK	0	219.2263121	0.222379	0
963 C12orf75	7	1	-0.56691	-1.34929	OK	0	160.5192575	0.162825	0
964 CA2	7	1	-0.10917	-1.40183	OK	0	236.2899464	0.239691	0
965 CADM1	7	1	-0.27633	-0.56155	OK	0	118.3391683	0.120033	0
966 CAMK1D	7	1	-0.07629	-0.47949	OK	0	217.4202527	0.220547	0
967 CCL26	7	1	-0.31755	-0.54385	OK	0	302.0231403	0.306374	0
968 CDH3	7	1	-0.30856	-1.40471	OK	0	180.9037785	0.183503	0
969 CES2	7	1	0.44769	-0.48062	OK	0	470.9342532	0.477725	0
970 CHL1	7	1	-0.38052	-0.41476	OK	0	237.1249703	0.240535	0
971 CISH	7	1	-0.40716	-1.21551	OK	0	69.58338323	0.070575	0
972 CLDN1	7	1	0.034547	-0.95149	OK	0	201.4444818	0.204342	0
973 CTSC	7	1	-0.54689	-1.06939	OK	0	293.4937114	0.297721	0
974 CYP2S1	7	1	-0.07855	-0.88485	OK	0	150.6675981	0.152829	0
975 CYP7B1	7	1	-0.4931	-0.6963	OK	0	294.3818033	0.298622	0
976 DPYD	7	1	-0.29173	-0.409	OK	0	253.6263682	0.257277	0
977 DSG3	7	1	0.633453	-0.60171	OK	0	372.6045303	0.377972	0
978 DSP	7	1	0.566945	-0.72709	OK	0	236.2433509	0.239636	0
979 DUOX1	7	1	0.201838	-0.24161	OK	0	326.2683787	0.330969	0
980 EPPK1	7	1	-0.34352	-0.37426	OK	0	266.1956611	0.270024	0
981 GALNT5	7	1	-0.06889	-0.77017	OK	0	214.1991008	0.21728	0
982 HAS3	7	1	-0.10233	-0.90178	OK	0	143.95017	0.146014	0
983 HLF	7	1	-0.34972	-1.28568	OK	0	174.4748259	0.176982	0
984 HPGD	7	1	-0.61451	-0.86886	OK	0	354.9179683	0.360032	0
985 KCNJ2	7	1	-0.45649	-1.24272	OK	0	130.4389326	0.13231	0
986 LINC01497	7	1	-0.58644	-1.01596	OK	0	193.505593	0.196287	0
987 LTA4H	7	1	0.05077	-0.24902	OK	0	348.1073431	0.353124	0
988 MDK	7	1	-0.54927	-1.18398	OK	0	188.5971158	0.191309	0
989 MPP7	7	1	0.16097	-0.52633	OK	0	364.668985	0.369925	0
990 MX1	7	1	0.046814	-0.70669	OK	0	268.5388615	0.272406	0
991 MYH9	7	1	0.247705	-0.85357	OK	0	257.7729451	0.261484	0
992 NEFL	7	1	-0.29065	-0.31323	OK	0	177.4029801	0.179948	0
993 NTRK2	7	1	-0.44555	-1.27409	OK	0	213.3491183	0.216419	0
994 P2RY1	7	1	0.238221	-0.6107	OK	0	239.3458131	0.242791	0
995 PDZK1IP1	7	1	-0.33246	0.007324	OK	0	292.720704	0.296937	0
996 PHLDB2	7	1	-0.07042	-1.44813	OK	0	99.34597926	0.100766	0
997 PMCH	7	1	-0.59368	-0.71376	OK	0	68.39893734	0.069363	0
998 SAMHD1	7	1	-0.54264	-0.71986	OK	0	227.8986842	0.231177	0
999 SCIN	7	1	-0.49259	-0.70821	OK	0	469.4131307	0.476182	0
1000 SECTM1	7	1	-0.24964	-0.44844	OK	0	136.333547	0.138287	0
1001 SERPINB3	7	1	-0.68084	-0.75916	OK	0	480.0374551	0.486956	0
1002 SERPINB4	7	1	-0.6339	-0.65821	OK	0	367.927037	0.37323	0
1003 SERPINE2	7	1	-0.59254	-0.91515	OK	0	174.5971759	0.177105	0
1004 SFRP1	7	1	-0.55747	-1.05463	OK	0	216.6401506	0.219756	0
1005 SGK1	7	1	-0.50208	-1.14599	OK	0	252.2459678	0.255878	0
1006 SH3RF2	7	1	-0.07761	-0.70377	OK	0	244.2873354	0.247804	0
1007 SLC26A4-A	7	1	-0.39774	-0.35791	OK	0	218.6808982	0.221818	0
1008 SPARCL1	7	1	-0.47782	-1.06132	OK	0	78.91544755	0.080039	0
1009 SPTBN1	7	1	0.286668	-0.71725	OK	0	247.5870723	0.251151	0
1010 SYNPO	7	1	-0.29803	-1.18115	OK	0	122.6287639	0.124385	0
1011 TFPI	7	1	-0.34551	-1.25913	OK	0	66.9720114	0.067924	0
1012 TFRC	7	1	0.40516	-0.7634	OK	0	175.4500203	0.177971	0
1013 THBD	7	1	0.039195	-1.08419	OK	0	199.7149552	0.202586	0
1014 TMPRSS11	7	1	0.105847	-0.24942	OK	0	361.7085279	0.366921	0
1015 TNFAIP6	7	1	-0.58827	-0.73305	OK	0	208.3303277	0.211322	0
1016 ZFP36L1	7	1	0.786903	-0.87909	OK	0	378.064425	0.38351	0

Supplemental Table 4. Gene expression profile of module 7 genes in EoE vs healthy subjects.

gene	meanEoE	meanHC	log2FC	status	p_value	morans_test_statistic	morans_l	q_value
1 TNFAIP6	0.966075	3.85E-05	14.61634	OK	0	208.3303277	0.211322	0
2 ALOX15	1.961654	0.000725	11.4022	OK	0	434.6651069	0.44093	0
3 PMCH	0.202487	0.000257	9.619501	OK	0	68.39893734	0.069363	0
4 CCL26	6.859651	0.016739	8.67874	OK	0	302.0231403	0.306374	0
5 SLC26A4-A	0.120048	0.000587	7.676937	OK	0	218.6808982	0.221818	0
6 ATP13A5	0.157916	0.001202	7.03789	OK	0	130.64077	0.132511	0
7 ANO1	0.836764	0.025489	5.036852	OK	0	320.4936555	0.325111	0
8 LINC01497	0.661007	0.028314	4.545071	OK	0	193.505593	0.196287	0
9 EPPK1	0.265399	0.015432	4.104191	OK	0	266.1956611	0.270024	0
10 CA2	1.371843	0.080025	4.099519	OK	0	236.2899464	0.239691	0
11 SERPINB4	6.673203	0.427246	3.965242	OK	0	367.927037	0.37323	0
12 NEFL	0.280174	0.018846	3.894011	OK	0	177.4029801	0.179948	0
13 SYNPO	0.235893	0.016821	3.809789	OK	0	122.6287639	0.124385	0
14 SCIN	3.688674	0.275633	3.742284	OK	0	469.4131307	0.476182	0
15 BCL2L15	0.386922	0.030523	3.664075	OK	0	219.2263121	0.222379	0
16 SFRP1	0.617312	0.057587	3.422193	OK	0	216.6401506	0.219756	0
17 CTSC	3.435824	0.360298	3.253396	OK	0	293.4937114	0.297721	0
18 CYP7B1	0.957797	0.11481	3.060474	OK	0	294.3818033	0.298622	0
19 KCNJ2	0.580258	0.073126	2.988245	OK	0	130.4389326	0.13231	0
20 SGK1	2.223951	0.3163	2.813758	OK	0	252.2459678	0.255878	0
21 MDK	0.882212	0.130983	2.751741	OK	0	188.5971158	0.191309	0
22 NTRK2	0.948013	0.143536	2.723496	OK	0	213.3491183	0.216419	0
23 CISH	0.225675	0.035959	2.649824	OK	0	69.58338323	0.070575	0
24 CADM1	0.144856	0.024142	2.584993	OK	0	118.3391683	0.120033	0
25 HAS3	0.200476	0.034917	2.52142	OK	0	143.95017	0.146014	0
26 SECTM1	0.169999	0.031297	2.441448	OK	0	136.333547	0.138287	0
27 PHLDB2	0.153398	0.029796	2.36408	OK	0	99.34597926	0.100766	0
28 APOL1	0.285596	0.056621	2.33457	OK	0	136.483189	0.13844	0
29 CHL1	0.33855	0.071509	2.243166	OK	0	237.1249703	0.240535	0
30 DPYD	0.493135	0.106768	2.2075	OK	0	253.6263682	0.257277	0
31 DUOX1	1.171431	0.253832	2.206326	OK	0	326.2683787	0.330969	0
32 PDZK1IP1	3.354051	0.747063	2.166603	OK	0	292.720704	0.296937	0
33 CAMK1D	0.299013	0.067236	2.152896	OK	0	217.4202527	0.220547	0
34 SH3RF2	0.653009	0.161891	2.01208	OK	0	244.2873354	0.247804	0
35 C12orf75	0.453379	0.11281	2.006827	OK	0	160.5192575	0.162825	0
36 GALNT5	0.476173	0.130597	1.866365	OK	0	214.1991008	0.21728	0
37 SAMHD1	0.34603	0.096709	1.839171	OK	0	227.8986842	0.231177	0
38 LTA4H	1.99693	0.570936	1.806382	OK	0	348.1073431	0.353124	0
39 MPP7	1.046935	0.307843	1.765906	OK	0	364.668985	0.369925	0
40 SERPINB3	17.48953	5.324917	1.715661	OK	0	480.0374551	0.486956	0
41 SERPINE2	0.356731	0.108897	1.711879	OK	0	174.5971759	0.177105	0
42 MX1	0.797846	0.246848	1.692489	OK	0	268.5388615	0.272406	0
43 MYH9	1.216838	0.379624	1.680495	OK	0	257.7729451	0.261484	0
44 ATP8B1	0.488133	0.158052	1.626876	OK	0	230.211679	0.233524	0
45 P2RY1	0.65632	0.213077	1.623026	OK	0	239.3458131	0.242791	0
46 SPTBN1	0.839629	0.273835	1.616447	OK	0	247.5870723	0.251151	0
47 CDH3	0.359101	0.118118	1.604159	OK	0	180.9037785	0.183503	0
48 THBD	0.404966	0.134632	1.588778	OK	0	199.7149552	0.202586	0
49 HPGD	3.934351	1.313569	1.582633	OK	0	354.9179683	0.360032	0
50 TFPI	0.120224	0.041968	1.518378	OK	0	66.9720114	0.067924	0
51 HLF	0.498671	0.178091	1.48547	OK	0	174.4748259	0.176982	0

52 CLDN1	0.710254	0.256736	1.468051	OK	0	201.4444818	0.204342	0
53 SPARCL1	0.139903	0.054756	1.353335	OK	0	78.91544755	0.080039	0
54 CYP2S1	0.247008	0.099059	1.318203	OK	0	150.6675981	0.152829	0
55 TMPRSS11L	0.897483	0.377531	1.249291	OK	0	361.7085279	0.366921	0
56 CES2	2.138067	0.953795	1.164556	OK	0	470.9342532	0.477725	0
57 DSG3	4.166981	1.902058	1.131441	OK	0	372.6045303	0.377972	0
58 ARNTL2	0.553917	0.277875	0.995237	OK	0	264.2569026	0.268061	0
59 DSP	15.03454	7.578231	0.988348	OK	0	236.2433509	0.239636	0
60 TFRC	0.392033	0.209336	0.905155	OK	0	175.4500203	0.177971	0
61 ZFP36L1	5.059103	2.971625	0.76763	OK	0	378.064425	0.38351	0

Supplemental Table 5. Identification of SOX2 and/or KLF5 downstream targets from Enrichr databases and literature-based analyses.

gene	source	regulator
1 CACNA2D4	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
2 KIAA1586	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
3 ISL1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
4 LARP6	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
5 L1CAM	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
6 SPINT2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
7 ASPHD1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
8 SPINT1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
9 FEZ2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
10 SCO1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
11 ATF3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
12 SAMD9	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
13 HPGD	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
14 PON3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
15 CRABP2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
16 TFPI	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
17 UACA	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
18 SPDEF	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
19 TFPT	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
20 DPYSL3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
21 ZNF19	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
22 JAG1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
23 NEBL	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
24 ATP6AP2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
25 ATP6AP1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
26 NR2F2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
27 PBX3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
28 VPS13A	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
29 SUPV3L1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
30 VANGL1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
31 BCR	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
32 PHF20L1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
33 PPFIBP2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
34 FAM111A	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
35 PLSCR1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
36 PKIA	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
37 SFXN3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
38 CHST5	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
39 PKIG	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
40 ATF4	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
41 ATF5	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
42 CHST4	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
43 CDCA2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
44 PDGFC	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
45 ZNF22	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
46 GATA6	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
47 PDGFA	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
48 F11R	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
49 GATA3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
50 ALKBH8	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
51 GATA2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
52 ZNF26	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
53 ALKBH6	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
54 EPB41L1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
55 ZC3H12A	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
56 EPB41L2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
57 FAM110C	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
58 NKX3-1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
59 PIP5K1B	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2

60	PRKACB	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
61	ZNF488	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
62	DUSP5	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
63	FUCA1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
64	JUN	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
65	DUSP4	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
66	JUP	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
67	FN1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
68	DCBLD2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
69	TMEFF1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
70	SLC7A5	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
71	CENPF	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
72	SLC7A7	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
73	SLC7A8	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
74	DPYD	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
75	FXYD6	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
76	RAPGEF4	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
77	RAPGEF5	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
78	LIMS2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
79	TFCP2L1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
80	ZC3HAV1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
81	SLC7A1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
82	HOXC13	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
83	SLC7A2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
84	HOXC10	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
85	HLCS	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
86	SHH	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
87	PANX1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
88	DLGAP1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
89	ZNF468	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
90	SLC18A2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
91	PCMTD2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
92	EGLN2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
93	ATAD2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
94	CDKL5	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
95	PPARA	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
96	DGAT1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
97	SNX25	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
98	BGN	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
99	ADAM10	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
100	SLC39A14	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
101	DAB2IP	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
102	MYBBP1A	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
103	ADAM17	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
104	LARS2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
105	APEX2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
106	ETNK1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
107	PPARG	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
108	TSR1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
109	LGR6	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
110	PPARD	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
111	LGR4	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
112	OAT	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
113	MTMR10	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
114	SNX10	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
115	SMPD3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
116	WRN	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
117	FGFR1OP2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
118	PLAGL1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
119	AGR2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
120	NUDT13	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2

121	FADS1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
122	MAP3K1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
123	BIK	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
124	CORO2A	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
125	FBXO17	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
126	STX8	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
127	ATP11C	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
128	SDCBP2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
129	WT1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
130	MFNG	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
131	LY6E	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
132	PDCD4	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
133	PKP4	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
134	IL6ST	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
135	AGRN	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
136	FRK	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
137	ZNF430	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
138	NIP7	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
139	PDCD6	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
140	TSPAN31	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
141	ATP10B	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
142	PLOD2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
143	FRY	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
144	EGFR	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
145	LAPTM4A	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
146	STX5	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
147	MAP3K8	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
148	ZNF420	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
149	NEK6	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
150	BNIP3L	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
151	SLC9A3R1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
152	PIAS3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
153	FBXO31	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
154	FBXO32	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
155	FBXO30	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
156	LCN2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
157	BMP2K	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
158	MNAT1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
159	SLC27A5	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
160	OSBP1A	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
161	KCNE3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
162	COL17A1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
163	EIF4EBP1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
164	LY75	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
165	MSI2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
166	NHSL1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
167	MED31	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
168	FNTA	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
169	UROD	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
170	NEK1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
171	NEK2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
172	NFATC2IP	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
173	SLC2A4RG	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
174	ITGA5	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
175	ITGA3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
176	TNFRSF19	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
177	TNFRSF1B	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
178	TMBIM1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
179	DBNDD2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
180	TNFRSF21	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
181	LCP1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2

182	TMBIM4	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
183	PCCA	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
184	SP5	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
185	OGT	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
186	KCNK1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
187	BCAR3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
188	MCFD2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
189	SHMT2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
190	MLLT3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
191	SPATA7	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
192	MLLT6	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
193	ALAD	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
194	RDH13	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
195	KIAA1522	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
196	BOK	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
197	BCAS1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
198	NADK	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
199	MBIP	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
200	STYK1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
201	GZMB	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
202	MID1IP1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
203	MYO10	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
204	RNASET2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
205	CABLES1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
206	TM6SF1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
207	TBX3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
208	CFDP1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
209	MYO1C	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
210	TSPAN14	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
211	MYO1B	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
212	TRIM36	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
213	KCTD15	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
214	KCTD12	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
215	TRIM32	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
216	PIK3AP1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
217	TRIM34	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
218	PRPS2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
219	SRC	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
220	MSLN	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
221	TRIM31	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
222	ITGB5	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
223	SRI	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
224	TSPAN12	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
225	NRGN	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
226	ZNRF1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
227	ZNRF2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
228	SRR	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
229	HHEX	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
230	KIAA1549	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
231	TRIM29	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
232	PTER	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
233	IGF2BP1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
234	ITGB8	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
235	ITGAV	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
236	FYN	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
237	ARL5B	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
238	SMARCA1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
239	ACTN4	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
240	FBXO3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
241	ARL14	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
242	SMARCA2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2

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245 NINJ2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
246 MT1G	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
247 MT1H	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
248 TRIM16	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
249 CCDC82	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
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251 MT1F	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
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253 EPAS1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
254 TAGLN	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
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494 EHD2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
495 SQLE	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
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500 PRKD2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
501 GNE	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
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745 EDN1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
746 HEG1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
747 UBL4A	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
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1723 CEACAM6	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
1724 RPUSD4	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
1725 ATM	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
1726 TFF3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
1727 CAMK1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
1728 TFF1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
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1736 MAOA	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
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1960 TSPAN8	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1961 REG4	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1962 FFAR4	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1963 TNFSF10	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1964 CD14	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1965 TSPAN2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1966 PROM1	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1967 LRRC26	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1968 PCP4L1	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1969 GSDMC	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1970 TESC	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1971 GP2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1972 TMC5	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1973 SYN2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1974 GPRC5A	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1975 TTLL7	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1976 TOX3	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1977 TPPP3	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1978 ARHGEF4	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1979 TFF3	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1980 RET	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1981 KLK1	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1982 TMPRSS4	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1983 NR1I3	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1984 TMPRSS2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1985 HNF4G	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1986 SLC7A14	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1987 HEPACAM2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1988 HIF3A	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1989 KRT23	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1990 KIF19	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1991 ACACB	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1992 HSD11B2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1993 SULT1C2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1994 UCHL1	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1995 MECOM	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1996 RNF150	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1997 QSOX1	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1998 PLLP	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
1999 RAB6B	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2000 CTSE	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2001 DGAT2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2002 GSTO1	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2003 ANO9	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2004 SYP	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2005 SORBS1	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2006 SLC35G2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2007 F3	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2008 CLIP4	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2009 DHRS9	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2010 KCNQ1	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2011 FABP7	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5

2073 RAB3C	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
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2076 UPK2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
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2084 EFEMP1	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
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2086 ALDH3B2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
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2089 LEPR	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
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2091 EFHD1	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2092 SH3GL2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
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2100 CADPS	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2101 TNFRSF19	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
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2112 SMIM6	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2113 CRYBG2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2114 TTC22	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2115 TNFAIP8	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2116 NPR3	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
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2122 RDH16	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
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2134 DCXR	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
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2136 MCOLN2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
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2142 LTF	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
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2145 SH2D4A	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
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2150 ATP2A3	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2151 HSD17B14	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
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2156 VSIG1	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2157 NOS1	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
2158 DLGAP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2159 SLC35E4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2160 USP12	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2176 SH3GL2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2179 OCIAD2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2180 KIAA1328	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2181 ETS2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2185 DACH1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2187 FERMT2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2193 ALG13	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2223 SHROOM3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2224 TMTC1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2225 DCLK2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2227 SAMD4A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2228 NDUFA4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2229 TGFBR1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2234 TNS4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2239 ETV1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2245 NCOA7	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2246 ATP8B4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2247 PLIN2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2248 AHNAK	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2249 RAB11FIP2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2250 STK38	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2251 ARMC2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2252 AVPI1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2253 TNIP3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2254 MYO10	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2255 EPDR1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5

2256 RASSF6	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2257 BMP6	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2258 RUNX2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2259 PAPPA	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2260 FOXF2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2261 APCDD1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2262 IL15	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2263 FAM171A1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2264 GRID2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2265 PCDH7	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2266 FARP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2267 TMPRSS11D	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2268 XPNPEP2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2269 CTBP2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2270 SUSD1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2271 ITGB8	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2272 MICAL3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2273 BCAT1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2274 MYOF	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2275 SDCBP2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2276 MARCKS	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2277 PC	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2278 PKIB	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2279 ATP8B1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2280 APBB1IP	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2281 LAMA3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2282 TSPAN14	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2283 BACH2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2284 MKX	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2285 RRP12	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2286 SULT1B1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2287 PIM1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2288 AQP11	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2289 ZNF395	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2290 DIRAS2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2291 RNF24	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2292 EDN1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2293 SH3RF1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2294 FNBP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2295 OPHN1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2296 AGR3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2297 HTRA1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2298 GFRA2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2299 TNC	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2300 CTSZ	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2301 TSPAN5	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2302 SERPINB5	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2303 LPCAT1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2304 DCLK1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2305 PPP3CA	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2306 SLC7A11	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2307 TLE1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2308 ANK3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2309 PIP5K1B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2310 GRIK1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2311 TADA2A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2312 PARM1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2313 PRRG4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2314 SOD3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2315 FAM83B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2316 FAM53B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5

2317 RAB11FIP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2318 CYTH3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2319 ENKUR	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2320 NRP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2321 OSBPL2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2322 SEMA5A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2323 RCBTB2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2324 FOXQ1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2325 RAP1GAP2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2326 ARL4A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2327 KLF4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2328 CHST3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2329 SLC16A7	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2330 GPR158	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2331 ARHGAP10	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2332 ABCC4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2333 ZFAND5	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2334 RIN2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2335 DSC3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2336 SOX21	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2337 FRAT2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2338 ANXA1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2339 FCHSD2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2340 TMPRSS11E	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2341 SLITRK6	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2342 PALLD	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2343 ZNF451	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2344 PDE1C	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2345 EFN2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2346 COL15A1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2347 KLHL32	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2348 ASAH1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2349 CHIC1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2350 JUP	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2351 NDFIP2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2352 POLM	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2353 TMEM211	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2354 SLC1A4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2355 TSPAN8	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2356 TRIP10	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2357 PCDH18	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2358 PPP1CB	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2359 CA10	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2360 SYNE2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2361 CECR2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2362 DOCK9	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2363 SULF1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2364 WDR72	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2365 RAP2A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2366 KIRREL3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2367 EXOC4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2368 LY75	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2369 LAMA4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2370 IGSF11	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2371 FRAS1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2372 DENND1A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2373 MAPK10	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2374 TGM3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2375 TMPRSS4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2376 SNRPN	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2377 DPYSL3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5

2378 C6orf136	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2379 BNC2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2380 TANK	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2381 TANC1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2382 NOL10	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2383 AKAP12	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2384 SEMA6D	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2385 RIMS2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2386 GDNF	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2387 FIGN	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2388 WFDC1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2389 SIL1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2390 BARX2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2391 WNT7A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2392 MACC1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2393 CITED2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2394 FBXO16	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2395 TGFBI	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2396 ASB1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2397 ATP8A1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2398 CCDC85A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2399 OSGIN1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2400 WNK2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2401 THUMPD2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2402 SLC8A1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2403 N4BP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2404 PRKCH	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2405 PLS3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2406 PPIF	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2407 AIG1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2408 VCL	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2409 NRXN3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2410 GSS	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2411 ARHGAP26	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2412 RPS6KA3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2413 SLC16A9	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2414 RGS9	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2415 RERE	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2416 FBLN2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2417 MEIS1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2418 LYGE	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2419 COL8A1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2420 KCMF1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2421 PARP12	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2422 SLCO5A1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2423 SMPD3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2424 SLC4A4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2425 FHL2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2426 SLC44A3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2427 SYN2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2428 GLI3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2429 TRIM24	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2430 ENPP2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2431 RFX3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2432 SCARA5	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2433 EMB	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2434 MMP2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2435 PGM2L1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2436 MGAT4A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2437 FSD1L	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2438 PLEKHH1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5

2439	FLRT2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2440	AMOT	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2441	FAM81A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2442	DNMBP	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2443	EPHB6	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2444	STXBP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2445	NEBL	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2446	IGF2R	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2447	ZFHX3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2448	TLE4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2449	GJB5	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2450	KLF12	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2451	RAI14	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2452	PBRM1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2453	ILVBL	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2454	PCTP	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2455	SOX5	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2456	NCOR2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2457	RAPGEF5	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2458	PHACTR4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2459	ZNF365	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2460	ARFGAP3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2461	PACS1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2462	COL4A6	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2463	IL20RB	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2464	MREG	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2465	TMEM200A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2466	PKD2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2467	SOCS2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2468	MYH9	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2469	ETS1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2470	CDK14	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2471	NFKBIA	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2472	GUCY1A2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2473	DTNBP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2474	MAL2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2475	PDZRN3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2476	MRAS	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2477	B3GAT1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2478	ADD2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2479	SGMS1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2480	IL1A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2481	RANBP17	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2482	NUDT4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2483	TXNDC12	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2484	PEBP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2485	TMC1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2486	RBMS3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2487	LIPT2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2488	CDH6	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2489	FAM3C	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2490	GHR	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2491	ALDH3A1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2492	EYA1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2493	LAMB1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2494	CDH11	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2495	ESYT3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2496	BAIAP2L1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2497	CCDC88C	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2498	HMGCLL1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2499	CMYA5	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5

2500 TOX3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2501 HS6ST1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2502 MMP16	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2503 DMD	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2504 ARID5B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2505 SYT17	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2506 PI15	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2507 EEA1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2508 PRKD1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2509 MCC	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2510 TRIM2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2511 B4GALNT4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2512 MPPED2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2513 GIPC2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2514 TEK	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2515 ROBO2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2516 TJP2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2517 KCNN2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2518 NEGR1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2519 GPHN	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2520 RNF19A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2521 FAM181B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2522 TM4SF1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2523 UGCG	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2524 ATP10B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2525 FKBP5	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2526 TGM7	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2527 PLA1A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2528 NHLRC2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2529 NDUFS4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2530 AGPAT4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2531 TULP4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2532 EHF	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2533 SLC9A2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2534 TNFSF15	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2535 GRM8	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2536 NUDT7	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2537 PARD3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2538 SPRY1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2539 EPHA3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2540 PLB1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2541 ANKH	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2542 DNAJC6	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2543 VEGFC	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2544 QKI	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2545 ADM	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2546 PODXL	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2547 PPP4R4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2548 EPCAM	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2549 PTER	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2550 CEP68	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2551 CRADD	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2552 PTGR1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2553 EPGN	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2554 BTG1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2555 ARMCX1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2556 KLHL8	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2557 ALDH5A1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2558 CAMK4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2559 ARG1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2560 NEURL1B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5

2561 FAM110C	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2562 SLC25A25	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2563 ANKRD6	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2564 MAP3K8	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2565 ALCAM	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2566 JPH1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2567 DNAJC21	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2568 SESTD1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2569 SRL	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2570 ARHGEF12	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2571 SORBS2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2572 EFEMP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2573 MBNL3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2574 KHDRBS3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2575 MFAP3L	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2576 MEGF9	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2577 GLIS3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2578 PAIP2B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2579 CX3CL1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2580 PFN2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2581 MBOAT2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2582 TBC1D30	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2583 NUAQ2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2584 IL6R	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2585 B3GNT2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2586 PBX1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2587 TBCA	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2588 SETD5	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2589 KLHL29	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2590 DGKG	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2591 LITAF	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2592 ST14	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2593 RBPJ	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2594 ADAM12	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2595 SLC4A3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2596 CCDC141	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2597 IDH2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2598 TNRC18	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2599 CDH13	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2600 MPZL1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2601 TXNRD1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2602 TANC2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2603 RGS4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2604 IL10	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2605 KRT19	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2606 ARHGAP18	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2607 MEGF11	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2608 KIRREL1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2609 SLC13A2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2610 ALOX12	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2611 SHISA6	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2612 SMOC2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2613 NRXN1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2614 RGL1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2615 SOX6	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2616 CTNND2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2617 BLNK	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2618 RARRES1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2619 NMNAT2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2620 PPL	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2621 CADPS2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5

2622 EFNA5	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2623 UTRN	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2624 PKP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2625 KCNJ2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2626 NUDT4B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2627 ATP1B1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2628 FAM43A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2629 ADRB1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2630 LYPD6B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2631 TNK2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2632 LY96	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2633 OTOP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2634 HDAC9	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2635 IQGAP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2636 PLD1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2637 SMPDL3B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2638 KCNK1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2639 IRAK2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2640 TMEM161B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2641 RC3H1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2642 HHAT	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2643 IRS1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2644 CNIH4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2645 ITGA6	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2646 RAB43	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2647 EPHA7	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2648 CFTR	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2649 ADAM9	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2650 SPRY4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2651 ST3GAL3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2652 BTG2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2653 NFKBIZ	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2654 PGBD1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2655 LPCAT4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2656 RFFL	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2657 NOS1AP	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2658 CLSTN2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2659 CLDN4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2660 SLC25A24	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2661 GGH	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2662 ROCK2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2663 ARHGAP20	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2664 DNMT3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2665 GRIP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2666 CHMP2B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2667 CAPN2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2668 ELF3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2669 BMPR2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2670 EIF4G3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2671 DSP	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2672 ERC1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2673 QSOX1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2674 KRT20	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2675 ACOX1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2676 RASGRP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2677 HMCN1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2678 TNFAIP3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2679 NGEF	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2680 ATP10A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2681 LMNA	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2682 C3orf52	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5

2683 DST	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2684 SGM52	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2685 FAM189B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2686 EZR	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2687 CASQ2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2688 CSGALNACT1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2689 ZNF362	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2690 ACAD9	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2691 CDC42EP3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2692 LIMA1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2693 NR4A1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2694 NRP2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2695 ODC1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2696 ACVR1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2697 FAM126A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2698 IFIH1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2699 SYTL3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2700 SMG7	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2701 SGK1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2702 IL18RAP	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2703 LFNG	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2704 SLC4A7	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2705 C3orf70	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2706 LAMC2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2707 EIF1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2708 SFXN3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2709 MBNL1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2710 NHL1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2711 KIT	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2712 GBP2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2713 PLD5	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2714 STC2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2715 RGSS5	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2716 ASPA	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2717 GBP5	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2718 RPRM	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2719 FOXP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2720 AMIGO1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2721 PDE4DIP	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2722 SNRNP48	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2723 PXDN	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2724 SULT2B1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2725 CRYZ	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2726 THBS2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2727 STAC	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2728 SLC6A6	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2729 SPPL3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2730 LPGAT1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2731 CLDN1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2732 PDLIM4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2734 JUN	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2735 TNIP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2736 S1PR1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2738 ANGPT1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2739 SLC6A2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2740 RBFOX1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2741 DGKI	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2742 ATXN1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2743 SOX13	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5

2744 VCAM1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2746 LRRC8B	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2747 MACF1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2748 TP63	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2749 DUSP1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2751 PLS1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2752 ABCB11	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2753 HS3ST3A1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2754 ANGPTL4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2755 HRH1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2765 GOLIM4	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2768 COL4A3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2772 SLC25A10	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2773 PRMT6	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2774 PTGS2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2775 CCL20	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2778 DHRS9	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2779 SH3PXD2A	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2780 PLEKHM3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2785 ABR	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2786 NUA1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2791 LRRC8C	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
2792 IQGAP2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
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2956 MSX1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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2985 BMP7	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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2993 PCNX4	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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2996 OSBPL3	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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4111 SIAH1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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4412 RNF222	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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4423 PYROXD1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
4424 NUAK1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
4425 LTBP4	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
4426 VANGL2	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
4427 EFNA3	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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4683 IFT20	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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4979 PDK1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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4981 NME6	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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4983 PGAP1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
4984 KCTD11	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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4986 PRMT1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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4992 CTSE	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
4993 CDC42BPA	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
4994 SSR2	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
4995 LIMA1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
4996 EFNA4	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
4997 GUCY2C	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
4998 ATP1B1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
4999 EFNA1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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5100 LAMB3	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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5116 GRAMD1C	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
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5188 HAUS6	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5189 ANKRD9	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5190 RBX1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5191 MNAT1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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5194 BMP7	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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5209 GID8	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5210 POLR3F	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5211 MAGEE2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5212 MOK	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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5233 YY1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5234 NOL12	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5235 PSMG1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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5239 YBEY	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5240 ISM1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5241 SSTR1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5242 CTNBL1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5243 DSG3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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5247 BTBD3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5248 MAFF	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5249 DOK5	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5250 U2AF1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5251 NUDT11	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5252 DLG3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5253 BRWD1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5254 MORC4	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5255 SMU1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5256 TSR2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5257 FANCM	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5258 DMRTA1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5259 RBBP8NL	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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5261 TECPR2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5262 TFAP2C	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5263 PRDM15	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5264 RUNX1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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5266 CHODL	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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5474 NUDT16L1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5475 NUPR2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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5477 TADA2B	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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5485 ARHGAP23	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5486 CXCL6	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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5495 TRIM29	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5496 DKK1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5497 SAMD8	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5498 NUP58	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5499 SIVA1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5500 LRFN4	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5501 UMODL1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5502 POLR2E	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5503 ACOT8	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5504 NEDD8	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5505 REM2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5506 ZNF503	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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5723 UQCR10	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
5724 AASDHPPT	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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5728 TAX1BP3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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6239	WDR20	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6240	RBM28	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6241	MRPS30	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6242	PWWP2B	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6243	AP4S1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6244	ALCAM	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6245	JMJD7-PLA2G4B	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6246	HYAL4	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6247	NUBP1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6248	HADHB	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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6251	FAAP100	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6252	JAKMIP2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6253	DMTF1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6254	NDOR1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6255	UBE3D	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6256	ANAPC1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6257	CALML3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6258	HSPA8	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6259	SF3B5	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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6264	MTMR2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6265	TOP2A	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6266	WDR70	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6267	PEX6	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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6269	LYPD5	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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6272	TNKS1BP1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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6288	SNIP1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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6737 EMD	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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6740 DENR	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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6742 LCAT	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6743 CRYBG3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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6745 C2orf49	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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6752 CEACAM21	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6753 UTP6	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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6985 BTBD10	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6986 CLIC4	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6987 GEMIN6	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6988 MRPL46	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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6995 PREX2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
6996 GGACT	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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6998 SLC30A4	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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7001 RASSF7	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7002 TUBB4B	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7003 MND1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7004 ZFYVE28	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7005 TTC26	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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7189 SWT1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7190 ATP5F1B	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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7239	CBARP	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7240	USP2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7241	ITGA10	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7242	VPS72	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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7249	SIRT7	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7250	IFNLR1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7251	LARP4B	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7252	ANKRD11	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7253	FOXP1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7254	WNT5B	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7255	FAM214A	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7256	STK19	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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7305	USH2A	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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7485 CCSAP	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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7499 C1orf131	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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7501 SAXO2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2

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7731 RFC4	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7732 KCTD15	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7733 ZNF239	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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7735 RTKN	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7736 ZNF780A	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7737 NVL	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7738 TUFT1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7739 SRP19	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7740 YARS2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7741 TDRD5	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7742 RPS25	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7743 ECT2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7744 MARK4	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7745 GRM2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2

7746 ZNF180	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7747 ACSM3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7748 PURA	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7749 SCAF1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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7756 UBE2J2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7757 HMGCS2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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7805 PHOSPHO2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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7944	CENPO	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7945	RBM12B	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7946	APPBP2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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7978	MRPL43	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7979	KMT2D	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7980	SRRM1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7981	SRSF10	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7982	GPBP1L1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7983	ADGRB1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7984	PYCR3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7985	FAM98A	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7986	STARD10	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7987	CSNK1G2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7988	TRIP12	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7989	WWTR1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2

7990 C2CD3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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7992 NACA	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7993 MAP2K2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7994 WDR6	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7995 TMEM216	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7996 XPO1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7997 FAM53C	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7998 SHANK2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
7999 CEBPZ	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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8003 C19orf33	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8004 ELP6	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8005 NAA38	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8006 LRRN2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8007 SCCPDH	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8008 ARHGAP33	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8009 TMEM161B	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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8175	HAS3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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8184	OTUD3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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8215	GTF2E1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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8219	TMEM237	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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8225	CCNL2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8226	SPC24	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8227	SMIM5	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8228	GPATCH3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8229	RBM4	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8230	NUF2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8231	MRPS14	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8232	XPOT	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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8236	C7orf25	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8237	GLMN	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8238	WDR83	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8239	LINGO1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8240	CNFN	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8241	CLN8	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8242	RTBDN	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8243	ALG8	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8244	ABCF3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8245	DDX23	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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8247	TARBP2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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8249	COP21	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8250	ETHE1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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8255	AKAP9	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8256	SERTAD4	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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8264	SMIM7	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8265	TMEM234	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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8293	TMEM128	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
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8470 CSPP1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8471 COMMD1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8472 LYPD3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8473 ST3GAL5	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8474 VPS54	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8475 CTTNBP2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8476 MAP2K7	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8477 MYO19	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2

8478 FMO4	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8479 VEPH1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8480 PPL	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8481 EFHD1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8482 DYNC2H1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8483 SNRNP70	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8484 KDF1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8485 GLIS1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8486 ERC2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8487 LRRC40	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8488 TFDP2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8489 NCDN	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8490 SLC35A4	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
8491 MRPL35	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2

Supplemental Table 6. Module 7 genes known to be regulated by SOX2 and/or KLF5.

gene	source	regulator
1 APOL1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
2 APOL1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
3 APOL1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
4 ATP8B1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
5 BCL2L15	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
6 CA2	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
7 CA2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
8 CAMK1D	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
9 CDH3	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
10 CLDN1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
11 CLDN1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
12 CLDN1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
13 CLDN1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
14 CYP251	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
15 DPYD	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
16 DSG3	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
17 DSG3	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
18 DSG3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
19 DSG3	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
20 DSP	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
21 DSP	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
22 DSP	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
23 DSP	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
24 DUOX1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
25 EPPK1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
26 EPPK1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
27 GALNT5	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
28 GALNT5	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
29 HAS3	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
30 HAS3	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
31 HAS3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
32 HPGD	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
33 HPGD	SOX2 regulated genes from PMID: 20726797	SOX2
34 KCNJ2	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
35 MPP7	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
36 MX1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
37 MYH9	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
38 MYH9	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
39 MYH9	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
40 NEFL	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
41 PDZK1IP1	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
42 PHLDB2	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
43 PHLDB2	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
44 PHLDB2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
45 SERPINB3	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
46 SFRP1	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
47 SFRP1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
48 SGK1	SOX2-KLF5 coregulated genes from PMID: 33972779	SOX2 + KLF5
49 SGK1	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2
50 SH3RF2	SOX2 regulated genes in Keratinocyte Overexpression from PMID: 30772301	SOX2
51 SH3RF2	Enrichr TF Perturbations followed by expression: KLF5 20726797 ChIP-Seq SW620 Human	KLF5
52 TFPI	Enrichr CHEA_2022: SOX2 20726797 ChIP-Seq SW620 Human	SOX2
53 TNFAIP6	SOX2 regulated genes in Wounding from PMID: 30772301	SOX2

Supplemental Table 7. Gene expression profile of upregulated EoE DEGs known to be regulated by SOX2 and/or KLF5.

gene	Log2FC	Pval	FDR_Pval	pct.EoE_Biopsy	pct.Healthy_Control	Top_Changed_Compartment	Regulators
1 TNFAIP6	14.03276603	0.000195546	0.010489143	26.30969971	0.008333034	Suprabasal	SOX2
2 NRXN1	8.481843776	0.000599264	0.010733065	5.067165747	0.005928385	Suprabasal	SOX2 + KLF5
3 DPP4	7.164647328	0.004291437	0.022284502	7.110944705	0.042029564	Suprabasal	SOX2
4 TRPM6	6.351720177	0.000545165	0.007274975	12.68360569	0.06651167	Superficial	SOX2
5 LURAP1L	6.213447206	0.000715353	0.007615337	18.34363791	0.132134256	Superficial	SOX2
6 GLDC	5.812522131	9.15E-05	0.010489143	17.66430308	0.256528795	Suprabasal	KLF5
7 MYRFL	5.249646268	0.000375835	0.007176147	6.520629319	0.195081078	Superficial	SOX2
8 NEFL	5.137160698	0.000504805	0.007178523	23.20878673	1.038348856	Superficial	KLF5
9 RPTN	4.987397171	9.26E-05	0.007176147	9.402714391	0.681967049	Superficial	SOX2
10 NFATC2	4.981012295	0.000989444	0.008042817	15.46639165	0.386585977	Superficial	SOX2 + KLF5
11 LBH	4.82051517	0.000506425	0.010489143	15.18280651	0.367077206	Suprabasal	SOX2
12 ADAM28	4.740686733	0.003303641	0.024854712	5.530658274	0.161625895	Basal	KLF5
13 KCNJ2	4.535506071	0.000196466	0.010489143	42.41879274	3.237283542	Suprabasal	SOX2 + KLF5
14 GABRP	4.346532147	5.55E-05	0.012455402	27.82034888	2.002158343	Basal	SOX2, KLF5
15 SFRP1	4.336773754	0.000153669	0.010489143	44.6669391	2.593848432	Suprabasal	SOX2
16 EDAR	4.248568858	0.000401828	0.007176147	19.44942997	1.08545527	Superficial	SOX2
17 EPPK1	4.143182566	0.006166656	0.027303057	34.09283879	3.257315631	Suprabasal	SOX2
18 IFFO2	4.134503394	0.000250281	0.007176147	59.91842482	9.317539544	Superficial	SOX2
19 CD200R1	4.133533272	0.000506425	0.007178523	27.369393	0.983226601	Superficial	SOX2
20 APOL1	4.043383815	0.001232925	0.008679903	40.60842821	3.499022944	Superficial	SOX2
21 BMPR1B	3.971683288	0.00591569	0.032981404	5.098860854	0.282051825	Basal	SOX2
22 IFI35	3.965447773	0.001232925	0.008679903	48.98584135	4.252996719	Superficial	SOX2
23 UPK1B	3.886272489	0.000119764	0.007176147	30.00643469	3.383373143	Superficial	KLF5, SOX2
24 CFB	3.852144876	0.000401828	0.007176147	33.99028752	3.320047752	Superficial	SOX2
25 LOXL4	3.819802832	0.000992312	0.014320968	17.36548658	1.18068853	Basal	SOX2
26 RUNX2	3.769129479	0.000504805	0.007178523	13.80876203	0.842100666	Superficial	SOX2, SOX2 + KLF5
27 CA2	3.736257496	7.20E-05	0.010489143	56.63468793	13.10997844	Suprabasal	SOX2
28 SLC28A3	3.717054301	0.000635975	0.007274975	22.8202256	2.11699801	Superficial	SOX2
29 LYPD6B	3.712117954	0.004211401	0.016013117	23.48505282	1.455960635	Superficial	SOX2 + KLF5, SOX2
30 SGK1	3.680085691	0.000153669	0.007176147	61.49330151	14.372983	Superficial	SOX2 + KLF5, SOX2
31 SERPINB3	3.601168438	7.20E-05	0.012455402	61.04787159	17.17234047	Basal	SOX2
32 ST8SIA6	3.586099976	0.000634007	0.007274975	9.78899944	0.441575518	Superficial	SOX2 + KLF5, SOX2
33 CCDC68	3.570963328	0.000506425	0.007178523	25.08739932	1.949503374	Superficial	SOX2
34 CMYA5	3.552817397	0.001526458	0.009387421	11.51192042	0.649201685	Superficial	SOX2 + KLF5
35 PHLDB2	3.526366051	0.000795824	0.010838271	19.35094986	1.167949601	Suprabasal	SOX2
36 CYP2S1	3.520993063	0.000992312	0.008042817	38.06773576	4.106293048	Superficial	SOX2
37 HAS3	3.515910568	0.000635975	0.007274975	31.49524154	3.578664882	Superficial	SOX2
38 PCSK6	3.498236414	5.55E-05	0.012455402	10.72980733	1.09770805	Basal	SOX2
39 NFE2L3	3.298054351	0.000250281	0.007176147	27.78456634	3.028185524	Superficial	SOX2
40 BCL2L15	3.169348667	0.000401828	0.010489143	52.77173551	9.09037378	Suprabasal	SOX2 + KLF5
41 UPK3BL2	3.151048298	0.0033823	0.014108599	11.77819237	0.999182365	Superficial	SOX2
42 CADM4	3.111929462	0.000401828	0.007176147	34.66563546	5.040451809	Superficial	SOX2
43 PAPSS2	3.082313982	0.002315114	0.020052792	14.29165028	1.259098065	Basal	SOX2
44 MUC4	3.064276121	0.001883197	0.018415354	9.945660526	1.283194417	Basal	KLF5
45 NAV1	3.01803895	0.000795824	0.007615337	24.20119131	3.215183485	Superficial	SOX2
46 TNS4	2.993108132	0.001232925	0.008679903	32.53389208	3.314587495	Superficial	SOX2, SOX2 + KLF5
47 APOL4	2.985249452	0.001526458	0.009387421	13.88024072	1.439759571	Superficial	SOX2
48 FA2H	2.981191994	7.20E-05	0.007176147	27.14904728	2.928368931	Superficial	KLF5
49 GALNT4	2.956378661	0.000963884	0.008042817	31.11337918	3.725274822	Superficial	SOX2, KLF5
50 GCNT4	2.929654443	0.000196466	0.007176147	10.75329782	1.615330968	Superficial	SOX2
51 KLK1	2.807174652	0.005105016	0.018023407	15.83369405	1.804143357	Superficial	KLF5, SOX2
52 RASGRP1	2.782742217	0.008904627	0.040392504	17.65106615	2.44746748	Basal	SOX2 + KLF5
53 PLA2G3	2.78085798	0.000989444	0.008042817	18.96022052	2.368144974	Superficial	SOX2
54 SERPINB13	2.770886827	0.000119764	0.012455402	64.24636718	20.44419918	Basal	SOX2
55 FOXE1	2.755248075	0.000795824	0.007615337	34.51116941	5.187653321	Superficial	SOX2
56 HRH1	2.7242374	0.001883197	0.014679007	24.54736841	3.982327992	Suprabasal	SOX2 + KLF5
57 APOL2	2.72256637	0.001232925	0.008679903	27.58021793	3.445414582	Superficial	SOX2
58 IFI27	2.685018167	0.002836074	0.0176927	78.44556802	38.98017695	Suprabasal	SOX2
59 KITLG	2.677505538	7.20E-05	0.010489143	40.63911213	7.568671567	Suprabasal	SOX2
60 LY75	2.675558265	5.55E-05	0.007176147	16.56232468	1.694338305	Superficial	SOX2, SOX2 + KLF5
61 SULF1	2.665452586	0.008904627	0.034252903	2.866133536	0.322283713	Suprabasal	SOX2 + KLF5
62 CAMK1D	2.657917619	0.000506425	0.007178523	49.15873668	9.200779378	Superficial	KLF5
63 SHF	2.642479077	0.001883197	0.010234018	10.17290233	1.181406638	Superficial	SOX2
64 APOL3	2.616122791	0.000317696	0.007176147	14.03510257	2.124512865	Superficial	SOX2
65 PLSCR3	2.590344397	9.30E-05	0.007176147	51.28244557	9.30799657	Superficial	SOX2
66 DPYD	2.582534489	0.000250281	0.007176147	56.95813881	13.81974657	Superficial	SOX2
67 Clorf74	2.569639155	0.000635975	0.007274975	18.30073531	2.487355771	Superficial	SOX2
68 HS3ST3A1	2.549605795	0.003462059	0.014108599	16.86965958	2.495265241	Superficial	SOX2 + KLF5
69 ADAT3	2.540027253	0.000196466	0.007176147	10.05232351	1.05232351	Superficial	SOX2
70 RARB	2.530013416	0.000992312	0.008042817	22.96760446	3.024920953	Superficial	SOX2 + KLF5, SOX2
71 TSPAN1	2.529823549	0.008904627	0.025990329	11.37029984	1.026495801	Superficial	SOX2

72	GALNT5	2.527879018	0.000153669	0.007176147	62.61494461	14.19470699	Superficial	SOX2, KLF5
73	HPGD	2.517803476	9.30E-05	0.012455402	63.4370818	26.66092629	Basal	SOX2
74	NEK6	2.497806445	0.000196466	0.010489143	9.695906506	1.247626474	Suprabasal	SOX2
75	USP2	2.470920442	7.20E-05	0.010489143	20.35654798	3.795647067	Suprabasal	SOX2
76	CDH3	2.454629294	0.001883197	0.014679007	33.06720283	5.979505217	Suprabasal	SOX2
77	NRP2	2.4318478	0.000635975	0.010733065	10.71042608	1.788625	Suprabasal	SOX2, SOX2 + KLF5
78	CLDN1	2.418800238	0.000506425	0.007178523	59.84833475	16.1506835	Superficial	SOX2, SOX2 + KLF5
79	EHD2	2.365985362	0.000992312	0.008042817	22.15175338	3.977983815	Superficial	SOX2
80	EPHA4	2.363866254	0.002315114	0.011381143	23.97424291	3.646350234	Superficial	SOX2, KLF5
81	ATP11C	2.357061891	0.006166656	0.020290909	9.252597911	1.160883516	Superficial	SOX2
82	TMTC3	2.351630508	0.000635975	0.007274975	45.10321587	9.259139716	Superficial	SOX2
83	VDR	2.343310449	0.000506425	0.007178523	46.65513349	9.496180257	Superficial	SOX2
84	ILDR1	2.3418189	0.000635975	0.007274975	10.28288777	1.988042993	Superficial	SOX2
85	FZD10	2.335435136	0.000196466	0.007176147	38.87791107	6.491347125	Superficial	SOX2
86	GJB4	2.297127992	0.001883197	0.010234018	14.24072294	2.556640803	Superficial	SOX2
87	SOX21	2.296941678	0.000506425	0.007178523	41.19240615	8.728487216	Superficial	SOX2 + KLF5, SOX2
88	SERINC5	2.292352434	0.000992312	0.008042817	57.34016553	13.89975778	Superficial	SOX2
89	APOL6	2.290382729	0.000401828	0.007176147	47.34837516	9.465108027	Superficial	SOX2
90	SH3RF2	2.288890426	0.000401828	0.007176147	57.94436358	14.02325258	Superficial	KLF5, SOX2
91	LGALS1	2.268271415	0.001526458	0.009387421	55.59902515	18.58782962	Superficial	SOX2
92	AADAC	2.267827947	0.005105016	0.018023407	10.87524615	1.59110865	Superficial	SOX2
93	SGPP2	2.250143174	0.000119764	0.007176147	52.07167939	12.31623848	Superficial	SOX2
94	PDZK1IP1	2.242093901	0.001526458	0.016792744	64.0916668	22.57691274	Basal	SOX2
95	GGH	2.23883892	0.000317696	0.007176147	60.15013769	13.53596753	Superficial	SOX2, SOX2 + KLF5
96	PKP2	2.222886641	0.000795824	0.007615337	26.63168494	2.617248693	Superficial	SOX2
97	UTRN	2.217242242	0.000196466	0.007176147	50.01075484	10.51356248	Superficial	SOX2, SOX2 + KLF5
98	NUP210	2.213606148	0.000795824	0.010838271	9.800731136	2.142050625	Suprabasal	SOX2
99	CNT2	2.205203227	0.000317696	0.007176147	24.98548601	4.185120601	Superficial	SOX2
100	TSPAN3	2.193440752	0.000250281	0.007176147	72.63979106	28.82128249	Superficial	SOX2
101	MYOF	2.181332839	0.000795824	0.007615337	51.76574142	12.51822189	Superficial	SOX2 + KLF5
102	DAPK2	2.170784779	0.001232925	0.012246384	11.93187041	2.113989461	Suprabasal	SOX2
103	CEP72	2.167186654	0.000196466	0.010489143	5.579343935	1.139148869	Suprabasal	SOX2
104	GALR2	2.166969424	0.001232925	0.008679903	13.57405301	2.436665487	Superficial	SOX2
105	AMOTL1	2.165279249	0.000153669	0.007176147	53.80914283	12.90952452	Superficial	SOX2
106	FAM83E	2.154161807	0.001526458	0.009387421	6.837893593	1.341925006	Superficial	KLF5, SOX2
107	HBEGF	2.139981014	0.000401828	0.007176147	49.07344726	14.25840594	Superficial	SOX2
108	GIPC2	2.130796901	0.000119764	0.007176147	11.29330817	1.737078975	Superficial	SOX2, SOX2 + KLF5
109	PIK3CB	2.116387008	0.000317696	0.007176147	30.49497273	5.37065142	Superficial	SOX2
110	FNTB	2.113774756	0.000196466	0.007176147	38.35216549	9.331467725	Superficial	SOX2
111	CALML4	2.098383243	0.006116011	0.020290909	16.40768279	3.452763393	Superficial	SOX2
112	PPP2R5B	2.096347506	0.000196466	0.007176147	8.853189121	1.585170099	Superficial	SOX2
113	RAI1	2.083551412	0.000401828	0.007176147	19.62176647	3.030777351	Superficial	SOX2
114	SOX2	2.081913146	0.000401828	0.007176147	64.78270526	23.45059511	Superficial	SOX2, KLF5
115	JDP2	2.080656788	0.000119764	0.007176147	38.95069837	7.653122801	Superficial	SOX2
116	KLHL5	2.07040443	0.001883197	0.014679007	18.03936572	3.182826682	Suprabasal	SOX2
117	PADI3	2.067623508	0.006166656	0.032981404	5.285130858	0.790356966	Basal	SOX2
118	HS3ST1	2.063319572	0.001232925	0.015721789	23.50845249	5.330860422	Basal	SOX2, SOX2 + KLF5
119	ARHGAP23	2.062876631	0.000992312	0.008042817	43.87809247	10.02607057	Superficial	SOX2
120	HECW2	2.058221439	9.30E-05	0.007176147	15.71587344	3.116907862	Superficial	SOX2
121	PRICKLE2	2.055478112	0.000795824	0.010838271	25.65292316	5.691110974	Suprabasal	SOX2
122	C9orf152	2.042243894	0.000317696	0.007176147	13.25621132	2.381023333	Superficial	SOX2
123	F2RL1	2.04202804	0.000795824	0.007615337	15.22355279	3.090463749	Superficial	SOX2
124	STK17B	2.02769262	0.001526458	0.009387421	41.63652012	7.333922578	Superficial	SOX2
125	C9orf40	2.018582283	0.000401828	0.007176147	18.20397196	3.43412846	Superficial	SOX2
126	MYH9	2.016181739	0.000401828	0.007176147	61.10773592	18.88556925	Superficial	SOX2 + KLF5, SOX2
127	PLAUR	2.002795365	0.002836074	0.012662188	15.93572912	3.786355668	Superficial	SOX2
128	CD44	1.998034871	0.000506425	0.007178523	61.11347514	19.65892181	Superficial	SOX2
129	PPARG	1.995811597	0.000401828	0.007176147	27.13150116	5.448962677	Superficial	SOX2, KLF5
130	PDLIM4	1.989624172	0.000317696	0.007176147	69.2066852	25.82174452	Superficial	SOX2, SOX2 + KLF5
131	C16orf74	1.983715146	0.005105016	0.018023407	23.21339782	4.600880205	Superficial	SOX2
132	NUAK2	1.98293209	0.001232925	0.008679903	43.77931763	10.90822545	Superficial	SOX2 + KLF5
133	KLK7	1.977463828	0.001883197	0.010234018	66.73816902	34.01620165	Superficial	SOX2
134	LPCAT4	1.972938051	0.000795824	0.007615337	62.90111134	20.64436002	Superficial	SOX2 + KLF5, SOX2
135	RIPK2	1.966802897	0.000795824	0.007615337	24.08933789	4.963363477	Superficial	SOX2
136	VANGL2	1.960523499	0.005105016	0.018023407	9.102787321	1.461988544	Superficial	SOX2
137	KCTD12	1.956658379	0.000401828	0.010489143	15.00195718	2.947502003	Suprabasal	SOX2
138	PLXNA1	1.956245434	0.002315114	0.011381143	13.16078784	2.350686874	Superficial	SOX2
139	UBE2Z	1.951186499	0.000506425	0.007178523	50.65988193	13.56189302	Superficial	SOX2
140	LRR8B	1.948757418	0.001526458	0.009387421	14.99469118	2.794121962	Superficial	SOX2 + KLF5
141	DUSP10	1.946963734	0.000992312	0.01142308	16.06853386	3.224143338	Suprabasal	SOX2
142	MVP	1.941839212	0.000401828	0.007176147	51.13459459	14.41912597	Superficial	SOX2
143	TLE1	1.923101892	0.000119764	0.007176147	27.10808303	5.539944391	Superficial	SOX2, SOX2 + KLF5
144	CLMN	1.900395402	0.000401828	0.010489143	10.25851781	1.920383559	Suprabasal	SOX2

145 BTBD11	1.881944659	0.000401828	0.007176147	32.29979612	7.660902713	Superficial	SOX2
146 UCK2	1.879818849	0.000506425	0.007178523	25.81261694	5.843574533	Superficial	SOX2
147 PRICKLE3	1.874661139	0.001232925	0.008679903	19.11973397	4.835371474	Superficial	SOX2
148 SGM52	1.870786282	0.000401828	0.007176147	35.5703333	7.638278866	Superficial	SOX2 + KLF5, SOX2
149 FMN1	1.866940741	0.000992312	0.008042817	13.93481253	2.490917074	Superficial	SOX2 + KLF5, SOX2
150 MBOAT1	1.856378922	0.004211401	0.016013117	20.12833534	4.645925894	Superficial	SOX2
151 PLCXD2	1.855577703	0.001883197	0.018415354	10.25091971	1.496509635	Basal	SOX2
152 SLFN5	1.848849547	0.001232925	0.008679903	27.75619287	6.018649947	Superficial	SOX2
153 TRAK1	1.846069152	0.000401828	0.007176147	35.07851392	7.922600535	Superficial	SOX2
154 PLAG1	1.834621629	0.002315114	0.020052792	7.541644707	1.172226914	Basal	SOX2
155 PCGF2	1.829922147	0.000401828	0.007176147	18.9966338	3.843979558	Superficial	SOX2
156 CFH	1.828796647	0.002315114	0.011381143	15.10224119	2.619784914	Superficial	SOX2
157 BPNT1	1.821261596	0.000119764	0.007176147	23.50791508	5.202532602	Superficial	SOX2
158 SERPINB5	1.819859014	0.000506425	0.007178523	67.98078257	28.24706043	Superficial	SOX2, SOX2 + KLF5
159 VPS9D1	1.8139499	0.004211401	0.016013117	32.5671341	9.788833771	Superficial	SOX2
160 PARP14	1.810369034	0.005105016	0.018023407	38.26737244	7.373411595	Superficial	SOX2
161 PPIA3	1.808834433	0.000506425	0.007178523	14.42758209	3.603490342	Superficial	SOX2
162 HAPLN3	1.805854094	0.017811616	0.043066688	9.09934586	1.590747789	Superficial	SOX2
163 SLC26A2	1.800102188	0.0001526458	0.009387421	45.30830537	11.39121798	Superficial	SOX2
164 RHBDF2	1.7980639	0.000317696	0.007176147	22.85167975	5.481160876	Superficial	SOX2
165 EPB41L1	1.793989519	0.001232925	0.008679903	42.29613711	10.905373002	Superficial	SOX2
166 LZTS2	1.792350541	0.000795824	0.007615337	21.57360734	4.784089227	Superficial	SOX2
167 DUOX1	1.791874816	0.000250281	0.007176147	78.09045313	40.85380185	Superficial	SOX2
168 RGS2	1.791283961	0.012681065	0.033478436	25.73956524	5.400301716	Superficial	SOX2
169 CDH1	1.790786868	0.000196466	0.007176147	66.43421356	23.36472372	Superficial	SOX2
170 FLNB	1.789509468	0.000795824	0.007615337	41.12314191	11.05496167	Superficial	SOX2
171 ACSL5	1.783440086	0.006166656	0.027303057	11.74714312	2.411107733	Suprabasal	SOX2
172 EFNA3	1.780245834	0.000317696	0.007176147	27.72683451	6.791475493	Superficial	SOX2
173 MX1	1.775059796	0.000992312	0.008042817	52.23414703	14.14516091	Superficial	SOX2
174 HSPA4L	1.774195024	0.000992312	0.008042817	44.30957301	11.98002916	Superficial	SOX2
175 NMI	1.773761102	0.002315114	0.011381143	47.10510036	12.99264976	Superficial	SOX2
176 TMED8	1.76610339	0.000795824	0.007615337	9.847590848	1.882202548	Superficial	SOX2
177 ACTN1	1.757688537	0.000992312	0.008042817	49.01098628	14.15301096	Superficial	SOX2
178 ARHGAP26	1.751173085	7.20E-05	0.007176147	19.94818841	4.677088953	Superficial	SOX2 + KLF5
179 RAB40B	1.750815018	0.002315114	0.011381143	29.68013769	6.615881291	Superficial	SOX2
180 LITAF	1.746481223	0.000317696	0.010489143	65.22896326	21.81166448	Suprabasal	SOX2, SOX2 + KLF5
181 BIK	1.744369223	0.001526458	0.016792744	17.82374359	4.38678935	Basal	SOX2
182 LMTK3	1.740611516	0.000401828	0.007176147	31.40700303	7.955807442	Superficial	SOX2
183 PCP4L1	1.738642273	0.002315114	0.020052792	8.98214398	2.87134725	Basal	KLF5
184 TRIM34	1.734596734	0.002257606	0.011381143	12.00649374	2.23866282	Superficial	SOX2
185 DUSP7	1.73342227	0.0005105016	0.018023407	26.21992767	6.095908265	Superficial	SOX2
186 IGF2R	1.719942816	0.000992312	0.008042817	48.48639949	13.65241974	Superficial	SOX2 + KLF5, SOX2
187 UBR1	1.719522138	0.000196466	0.007176147	14.06178488	2.530448228	Superficial	SOX2
188 SMAD7	1.715565935	0.000317696	0.010489143	23.33039354	6.328498368	Suprabasal	SOX2
189 CFAP45	1.713651152	0.008904627	0.034252903	3.768521822	1.162924672	Suprabasal	SOX2
190 PSMB9	1.713579321	0.001883197	0.014679007	46.76968644	13.20609663	Suprabasal	SOX2
191 RAD50	1.709565758	0.000250281	0.007176147	41.71108638	10.58867033	Superficial	SOX2
192 ARGFGEF1	1.709561526	5.55E-05	0.007176147	59.31506671	18.23150087	Superficial	SOX2
193 PCCA	1.708003858	0.000250281	0.007176147	25.73152384	5.309542158	Superficial	SOX2
194 TNIK	1.706346895	0.017811616	0.043066688	5.392242583	0.752506829	Superficial	SOX2
195 ITGAV	1.702941913	0.000317696	0.007176147	28.00302136	5.643803668	Superficial	SOX2
196 NAB2	1.702282164	0.000401828	0.007176147	9.914356536	2.392261266	Superficial	SOX2
197 PITRM1	1.702119527	0.002315114	0.011381143	39.3035774	9.553439545	Superficial	SOX2
198 GALNT7	1.696244002	0.000317696	0.007176147	53.0088514	14.34898878	Superficial	KLF5
199 FAM3C	1.6929743	0.000992312	0.008042817	62.57202139	21.71212462	Superficial	SOX2, SOX2 + KLF5
200 CARNMT1	1.69008525	0.000635975	0.007274975	27.23772045	6.517738001	Superficial	SOX2
201 PLXNB1	1.689316796	0.000635975	0.007274975	28.19070091	8.442735153	Superficial	SOX2
202 AQP3	1.688886054	0.000635975	0.007274975	88.79367883	56.05032049	Superficial	SOX2
203 MAOA	1.687062072	0.000250281	0.007176147	53.15988498	16.42076969	Superficial	SOX2
204 PLEKHA7	1.686755148	0.000635975	0.007274975	50.68256995	15.01051921	Superficial	SOX2
205 BHLHE40	1.683975933	0.000250281	0.012455402	66.70715515	29.07714623	Basal	SOX2
206 TMEM268	1.683413946	0.000795824	0.007615337	6.305050499	1.013843833	Superficial	SOX2
207 RGS12	1.679974365	0.000196466	0.007176147	52.44813675	16.05946172	Superficial	SOX2
208 FAM3B	1.679634197	0.000401828	0.007176147	76.76679222	41.20933182	Superficial	SOX2, KLF5
209 FAM83C	1.679177088	0.000992312	0.008042817	34.67295623	9.58995339	Superficial	SOX2
210 USP54	1.677511187	0.001883197	0.010234018	48.22455818	13.1742308	Superficial	SOX2
211 NRARP	1.676776951	0.001526458	0.009387421	59.48866715	22.43678013	Superficial	SOX2
212 VANGL1	1.674308055	0.000992312	0.008042817	26.754429	5.911651905	Superficial	SOX2
213 CD9	1.664880927	0.000317696	0.007176147	95.7959489	87.17960747	Superficial	SOX2 + KLF5, SOX2
214 SIPA1L1	1.662110852	9.30E-05	0.007176147	45.53935844	12.70121283	Superficial	SOX2
215 FZD1	1.660406189	0.000401828	0.007176147	15.36367518	3.652475248	Superficial	SOX2
216 DSG3	1.659685097	0.000401828	0.007176147	76.2731689	37.72281451	Superficial	KLF5, SOX2 + KLF5, SOX2
217 FAM83G	1.655884408	0.001883197	0.010234018	35.56417675	10.87087784	Superficial	SOX2

218 ADCY7	1.655709863	0.002836074	0.012662188	26.2365789	5.391710904	Superficial	SOX2
219 MDGA1	1.649359333	0.005105016	0.024262694	6.424994564	1.914752811	Suprabasal	SOX2
220 CEACAM6	1.648410896	0.001232925	0.015721789	14.47583323	4.150146377	Basal	SOX2
221 ATP2C1	1.646785429	0.000401828	0.007176147	34.44258344	8.519262101	Superficial	SOX2
222 TCF7L2	1.645495297	0.000635975	0.007274975	24.10556753	5.483411759	Superficial	SOX2
223 DEF6	1.643050311	0.000401828	0.007176147	22.74032432	5.806535233	Superficial	SOX2
224 ERI1	1.638743032	0.000795824	0.007615337	19.59835376	5.244473791	Superficial	SOX2
225 E2F8	1.632929528	0.002836074	0.012662188	19.05196528	4.16204622	Superficial	SOX2
226 PRDM1	1.628753891	0.005105016	0.029792864	9.74035703	2.23802724	Basal	SOX2
227 WNT5A	1.626161756	0.000401828	0.007176147	40.61458636	11.46950904	Superficial	SOX2
228 ACSL1	1.625384316	0.006166656	0.020290909	45.16007735	13.44840278	Superficial	SOX2
229 IFIT2	1.625274549	0.021001058	0.04834985	7.148106854	1.150788534	Superficial	SOX2
230 AEBP2	1.622302638	0.000795824	0.007615337	39.97302843	9.842466958	Superficial	SOX2
231 STF6	1.612517544	0.000795824	0.007615337	41.35112964	11.00713868	Superficial	SOX2
232 TEX	1.60997414	0.007423146	0.030449933	15.90490035	4.406701305	Suprabasal	SOX2
233 ZNF326	1.607653042	0.000119764	0.007176147	58.61505907	18.15590786	Superficial	SOX2
234 CASK	1.607623668	0.000317696	0.007176147	25.64028894	6.432160107	Superficial	SOX2
235 STAT6	1.605855949	0.000992312	0.008042817	35.45387829	11.31713013	Superficial	SOX2
236 NECTIN1	1.600704419	0.000992312	0.008042817	62.49026247	22.13619408	Superficial	SOX2
237 LDLRAD3	1.598177175	0.000795824	0.007615337	13.15101248	2.23742001	Superficial	SOX2
238 SIRT6	1.593566613	0.003462059	0.014108599	11.50078903	3.946469396	Superficial	SOX2
239 ADGRG1	1.588484691	0.002315114	0.011381143	40.98278712	11.67161753	Superficial	SOX2
240 MACF1	1.585172836	0.001883197	0.010234018	45.42867422	13.42301982	Superficial	SOX2 + KLF5, SOX2
241 KALRN	1.568401192	0.001232925	0.008679903	39.89066692	11.36810286	Superficial	SOX2
242 EFNA1	1.567624298	0.000250281	0.007176147	35.81170057	9.972419373	Superficial	SOX2
243 SIAH2	1.561358934	0.000506425	0.007178523	54.29178907	18.17855221	Superficial	SOX2
244 MMP7	1.555620236	0.000795824	0.007615337	74.5401543	35.82324735	Superficial	SOX2
245 LRIG3	1.554041648	0.001526458	0.009387421	16.87745803	4.27268611	Superficial	SOX2
246 CBLC	1.550539974	0.000795824	0.007615337	54.08040173	16.73185142	Superficial	SOX2
247 RAPGEFL1	1.546741477	0.000635975	0.007274975	59.0466891	21.22229912	Superficial	KLF5, SOX2
248 NBEAL2	1.543643779	0.001526458	0.009387421	66.32498761	27.02085762	Superficial	SOX2
249 TMPRSS11D	1.540082196	0.008904627	0.040392504	18.5208653	5.78738771	Basal	SOX2 + KLF5
250 CYB561D1	1.539648021	0.003462059	0.014108599	15.63686224	3.624462484	Superficial	SOX2
251 DYRK2	1.537828927	0.000317696	0.007176147	30.61055724	7.976776919	Superficial	SOX2
252 EGR2	1.532135907	0.010644787	0.029507311	8.930218254	2.317618094	Superficial	SOX2
253 UNC5B	1.532021274	0.004211401	0.016013117	21.54159413	7.012623892	Superficial	SOX2
254 EGR1	1.531257162	0.000401828	0.007176147	77.3750348	37.25352246	Superficial	SOX2
255 ID4	1.529712713	0.005105016	0.018023407	61.2478735	25.59836537	Superficial	SOX2
256 NRIP1	1.527774608	0.000992312	0.008042817	31.56908623	8.02702205	Superficial	SOX2, SOX2 + KLF5
257 SETBP1	1.526392337	0.000795824	0.007615337	12.37924636	2.847820355	Superficial	SOX2 + KLF5, SOX2
258 CTNBP2	1.523952442	0.001526458	0.009387421	38.23349606	9.953505753	Superficial	SOX2
259 ZNF750	1.521825816	0.000635975	0.007274975	71.74142611	34.19483123	Superficial	SOX2
260 ROBO1	1.521395177	0.002315114	0.011381143	20.09483419	4.223508011	Superficial	SOX2
261 SERPINB2	1.520402251	0.001232925	0.015721789	56.47425191	25.15403273	Basal	SOX2 + KLF5
262 DLG5	1.520094924	0.000795824	0.010838271	31.97247699	10.87101714	Suprabasal	SOX2
263 USP32	1.513329317	0.000992312	0.008042817	27.57071909	6.844546538	Superficial	SOX2
264 MBTPS1	1.5075199	0.000992312	0.008042817	40.77920392	12.36148303	Superficial	SOX2
265 SPTBN2	1.507423391	0.000635975	0.007274975	45.72760689	15.53689929	Superficial	SOX2
266 MYH14	1.506036602	0.000635975	0.007274975	65.02307798	27.62556019	Superficial	SOX2, SOX2 + KLF5
267 TTC39B	1.504724353	0.000153669	0.007176147	31.35300257	8.277748331	Superficial	SOX2
268 PPFIBP2	1.502913882	0.000506425	0.007178523	38.08840061	10.11643122	Superficial	SOX2
269 PARP9	1.497471188	0.002836074	0.012662188	45.0973443	13.68164257	Superficial	SOX2
270 MCC	1.495164205	0.001232925	0.008679903	33.17844453	9.480764163	Superficial	SOX2, SOX2 + KLF5
271 SLC16A7	1.492659835	0.000317696	0.007176147	36.68869929	10.26325143	Superficial	SOX2 + KLF5
272 KIAA1522	1.491037323	0.000795824	0.007615337	57.95200293	21.15180697	Superficial	SOX2
273 CTF1	1.489903466	0.015054848	0.038009884	6.497786284	2.532560526	Superficial	SOX2
274 ZFYVE28	1.489529705	0.004211401	0.016013117	11.28814489	2.205883735	Superficial	SOX2
275 MARK2	1.485849189	0.000795824	0.007615337	64.26837362	27.57208954	Superficial	SOX2
276 ZNF512B	1.482940443	0.000153669	0.007176147	14.48764198	3.998364131	Superficial	SOX2
277 EEA1	1.479639763	0.000196466	0.007176147	68.01721549	26.67149732	Superficial	SOX2 + KLF5, SOX2
278 ANG	1.470912351	0.017811616	0.043066688	10.58303921	2.925742081	Superficial	SOX2
279 SPTPIP2	1.470147182	0.000153669	0.007176147	20.22059631	3.435694389	Superficial	SOX2
280 GLS	1.46994638	0.000119764	0.007176147	24.94966084	6.436039892	Superficial	SOX2
281 ACADSB	1.46729936	0.000635975	0.007274975	33.22753084	7.725227649	Superficial	SOX2
282 TAPBP	1.462687605	0.002315114	0.011381143	60.46527377	23.25742706	Superficial	SOX2
283 TMC6	1.459446866	0.003462059	0.014108599	33.19438017	10.41223051	Superficial	SOX2
284 ATF3	1.4580875	0.003462059	0.014108599	64.8069383	31.24154827	Superficial	SOX2
285 GPAT4	1.454502053	0.001232925	0.008679903	16.79760858	4.655621659	Superficial	SOX2
286 P2RY2	1.454448709	0.001883197	0.010234018	26.87639549	8.337861884	Superficial	SOX2
287 NR2F2	1.453940982	0.000250281	0.007176147	7.515066166	1.627785245	Superficial	SOX2
288 KLF4	1.451647249	0.000317696	0.007176147	74.16657085	38.12955866	Superficial	SOX2 + KLF5
289 PPARGC1B	1.451020759	0.010644787	0.029507311	17.5730362	4.146815669	Superficial	KLF5
290 MARK1	1.450576993	0.005105016	0.018023407	11.31410423	2.61341336	Superficial	SOX2

291 ACVR2A	1.449181971	0.000795824	0.007615337	30.56926601	7.030736758	Superficial	SOX2
292 EFS	1.443933494	0.001526458	0.009387421	29.99052364	9.591608224	Superficial	SOX2
293 FOSL1	1.44377816	0.012681065	0.049425568	19.99797835	6.879080718	Basal	SOX2
294 SOX9	1.443054728	0.003462059	0.024854712	24.37891667	6.330952656	Basal	SOX2
295 RAB11FIP1	1.442200578	0.000317696	0.012455402	44.59727837	19.1411243	Basal	SOX2, SOX2 + KLF5
296 EXT1	1.436512243	0.002836074	0.012662188	13.54263902	3.548045055	Superficial	SOX2
297 GBP3	1.435078234	0.002836074	0.012662188	39.4589241	11.77543464	Superficial	SOX2
298 AGPAT5	1.429902007	0.001883197	0.010234018	27.61419053	6.879942189	Superficial	SOX2
299 TJP2	1.428786705	0.000250281	0.012455402	37.63135572	12.37153651	Basal	SOX2, SOX2 + KLF5
300 MYO1B	1.424682138	0.000795824	0.0136425	35.06249235	12.49455715	Basal	SOX2
301 WRN	1.422447463	0.000317696	0.007176147	12.03213883	2.82000383	Superficial	SOX2
302 MTSS1	1.414208577	7.20E-05	0.007176147	56.05422812	18.62672861	Superficial	SOX2
303 RARA	1.414049556	0.007423146	0.022959455	10.0578091	1.361551578	Superficial	SOX2
304 CELSR2	1.412827235	0.001883197	0.010234018	32.83846129	8.471091898	Superficial	SOX2
305 TMEM62	1.41211041	0.000401828	0.007176147	15.85865511	4.494080284	Superficial	SOX2
306 ATP1A1	1.410743248	0.002836074	0.012662188	54.54542011	19.58899334	Superficial	SOX2
307 KDM6B	1.410464515	0.000635975	0.007274975	26.18538702	7.047815	Superficial	SOX2
308 AHR	1.409902398	0.000196466	0.010489143	37.6195811	12.92727326	Suprabasal	SOX2
309 FAM83B	1.409210634	0.005105016	0.018023407	24.44070299	5.677640141	Superficial	SOX2, SOX2 + KLF5
310 IL15RA	1.405856308	0.000992312	0.01142308	8.983045649	2.947652454	Suprabasal	SOX2
311 TRNP1	1.39874506	0.001526458	0.016792744	26.25894725	8.679371806	Basal	SOX2
312 IGSF9	1.397302481	0.015054848	0.038009884	10.74871348	2.239511216	Superficial	SOX2
313 B3GALNT2	1.394665908	0.000317696	0.007176147	23.68419665	6.990842078	Superficial	SOX2
314 ANGPTL4	1.390767663	9.30E-05	0.012455402	16.31586531	4.670732675	Basal	SOX2 + KLF5, SOX2
315 GFOD1	1.385270232	0.001883197	0.010234018	23.04950039	5.817350747	Superficial	SOX2
316 PPPP	1.384548287	0.004211401	0.021879278	16.77886912	4.832901743	Suprabasal	SOX2
317 DUOX1	1.37848433	0.000401828	0.012455402	48.21228319	19.71710377	Basal	SOX2
318 EDUC4	1.373595403	0.000980874	0.008042817	19.45990268	5.084122399	Superficial	SOX2
319 PRCP	1.372815391	0.000506425	0.007178523	51.28852932	17.1700345	Superficial	SOX2
320 KDM4A	1.368537175	0.000506425	0.007178523	21.96859569	4.670725141	Superficial	SOX2
321 AHCTF1	1.364426399	0.000992312	0.008042817	20.42186335	4.885164396	Superficial	SOX2
322 CDCC51	1.364414193	0.006166656	0.020290909	30.08544728	9.187453014	Superficial	SOX2
323 GBF1	1.363385147	0.000992312	0.008042817	37.52272583	12.18132941	Superficial	SOX2
324 CIB1	1.359374292	0.000635975	0.007274975	71.89402045	37.61930816	Superficial	SOX2
325 ZBTB40	1.357638761	0.001526458	0.009387421	9.441108813	1.982079465	Superficial	SOX2
326 PDK3	1.356669527	0.001232925	0.008679903	15.30966875	4.188927431	Superficial	SOX2
327 UBE2L6	1.353073987	0.001526458	0.009387421	34.95959257	8.921171972	Superficial	SOX2
328 ANXA8L1	1.352486799	0.000506425	0.007178523	31.13710693	8.787587644	Superficial	SOX2
329 ETS2	1.348438538	0.000506425	0.010489143	70.5467627	37.00163852	Suprabasal	SOX2, SOX2 + KLF5
330 ZNF316	1.346975294	0.000506425	0.007178523	14.80715013	4.977715972	Superficial	SOX2
331 PPFIA1	1.345698612	5.55E-05	0.007176147	34.56770634	9.912383496	Superficial	SOX2
332 NUP205	1.342293498	0.000401828	0.007176147	14.31714078	4.145322997	Superficial	SOX2
333 TMEM129	1.341297541	0.003462059	0.014108599	15.54081075	4.998039805	Superficial	SOX2
334 KRT6A	1.338300874	0.007423146	0.036548425	70.83206676	49.5782978	Basal	SOX2
335 UTP20	1.338154756	0.003462059	0.014108599	13.15682885	2.679443984	Superficial	SOX2
336 CERS3	1.336695002	0.000992312	0.008042817	66.75354368	27.89605679	Superficial	KLF5, SOX2
337 PHF2	1.333360461	0.000506425	0.007178523	18.51205223	4.924088628	Superficial	SOX2
338 SOWAHB	1.330616268	0.000506425	0.010489143	19.25278672	6.539010872	Suprabasal	SOX2
339 UBE2O	1.32923008	0.012681065	0.033478436	10.25200313	3.090639077	Superficial	SOX2
340 SEMA4B	1.328875176	0.005105016	0.018023407	40.34899141	14.00945595	Superficial	SOX2
341 MUC15	1.328370967	0.000506425	0.007178523	59.25483221	20.34713306	Superficial	SOX2
342 TSHZ1	1.32797418	0.000795824	0.007615337	17.38245968	4.734116887	Superficial	SOX2
343 SLC30A4	1.324891857	0.000992312	0.008042817	15.57983981	4.129145692	Superficial	SOX2
344 PLAC8	1.321845779	0.008904627	0.040392504	23.19185551	9.186900909	Basal	SOX2
345 PROS1	1.320692718	0.001232925	0.008679903	16.76337057	4.722148576	Superficial	SOX2
346 QRSL1	1.319743783	0.000196466	0.007176147	15.55650242	4.687149578	Superficial	SOX2
347 OCIAD2	1.31691942	0.000795824	0.007615337	50.38690675	15.63470735	Superficial	SOX2 + KLF5
348 MUC1	1.316339356	0.008904627	0.040392504	16.0412245	4.959969675	Basal	KLF5, SOX2
349 PAK6	1.316197272	0.005105016	0.018023407	17.81476293	5.584040472	Superficial	SOX2
350 RNASE4	1.314834402	0.005094082	0.018023407	12.16976102	3.108359674	Superficial	SOX2
351 ARHGAP18	1.313208605	0.001526458	0.009387421	17.67087429	4.49131787	Superficial	SOX2, SOX2 + KLF5
352 TOP2B	1.312446793	0.000795824	0.007615337	39.86008267	11.05700902	Superficial	SOX2
353 MARVELD2	1.312375904	0.000317696	0.007176147	28.05964149	9.039323031	Superficial	SOX2
354 ERC1	1.308852525	0.000992312	0.008042817	39.6157528	12.99023703	Superficial	SOX2 + KLF5, SOX2
355 TMEM132A	1.306731913	0.000250281	0.007176147	36.14513057	9.791551434	Superficial	SOX2
356 TMEM125	1.305306728	0.000635975	0.007274975	31.74072791	10.27266171	Superficial	SOX2
357 ATP2A2	1.30393959	0.002836074	0.012662188	67.33126411	29.68867078	Superficial	SOX2
358 GSTO1	1.30389326	0.002315114	0.011381143	58.6348769	23.03531844	Superficial	KLF5
359 SOX13	1.301876207	0.004211401	0.016013117	13.72289931	3.118639101	Superficial	SOX2 + KLF5, SOX2
360 RCC1L	1.30181624	0.000795824	0.007615337	28.93228558	8.302303983	Superficial	SOX2
361 PI4K2B	1.301679821	0.004211401	0.016013117	19.88158248	4.693846417	Superficial	SOX2
362 NBN	1.293606262	0.000317696	0.007176147	40.2244907	12.58433084	Superficial	SOX2
363 EPHA1	1.292228293	0.000795824	0.007615337	47.17389356	15.8337107	Superficial	SOX2

364	CBX6	1.29167696	0.002315114	0.011381143	31.83148599	10.1731285	Superficial	SOX2
365	TMPRSS4	1.291648313	0.000317696	0.012455402	52.64854085	22.60403832	Basal	SOX2, KLF5, SOX2 + KLF5
366	PDE4D	1.288243	0.003462059	0.014108599	11.39595236	2.129328554	Superficial	SOX2, SOX2 + KLF5
367	DBNDD2	1.286934243	0.001219203	0.008679903	49.89250831	17.33137271	Superficial	SOX2
368	IRX2	1.284964767	5.55E-05	0.007176147	13.28747174	3.955746035	Superficial	SOX2
369	PTPRF	1.283332755	0.001883197	0.010234018	54.86782032	19.86110899	Superficial	SOX2
370	RNGTT	1.281199467	0.000250281	0.007176147	27.16286848	7.841618321	Superficial	SOX2
371	PLA2G4B	1.280849172	0.017698983	0.043066688	29.65748348	11.18833209	Superficial	SOX2
372	CDC42EP1	1.280809566	0.000506425	0.012898798	49.93940725	20.79124099	Basal	SOX2
373	ARL5B	1.2806538	0.002315114	0.011381143	38.32525881	10.54936115	Superficial	SOX2
374	FAM135A	1.278999435	0.000992312	0.008042817	63.70652239	28.27070091	Superficial	SOX2
375	RAPGEF5	1.278312014	0.000153669	0.010489143	38.66857075	15.89877526	Suprabasal	SOX2, SOX2 + KLF5
376	PAK4	1.278029191	0.000153669	0.007176147	36.06503889	11.77443905	Superficial	SOX2
377	SPRYD3	1.277772516	0.000992312	0.008042817	24.20572055	6.994672203	Superficial	SOX2
378	FGRF3	1.277577146	0.004211401	0.016013117	43.50353723	15.34914819	Superficial	SOX2, KLF5
379	LSR	1.271662219	0.001526458	0.009387421	59.20009736	22.67903464	Superficial	SOX2
380	PARG	1.267231595	0.000153669	0.007176147	18.63111661	5.046069019	Superficial	SOX2
381	GSDMC	1.265904005	0.001526458	0.009387421	51.45721865	18.99913397	Superficial	KLF5
382	RANGAP1	1.262746573	0.001883197	0.010234018	39.92014309	12.52755039	Superficial	SOX2
383	CTSD	1.261128396	0.000401828	0.007176147	87.81296053	60.78044895	Superficial	SOX2
384	KDM1A	1.259944271	0.001883197	0.010234018	24.42107785	6.395816716	Superficial	SOX2
385	SHROOM2	1.258271405	0.000635975	0.007274975	16.76833305	5.01205908	Superficial	SOX2 + KLF5
386	PTPN1	1.25765891	0.000506425	0.007178523	39.88181934	12.6414766	Superficial	SOX2
387	MAP7D1	1.256968222	0.000795824	0.007615337	56.70640296	22.14215924	Superficial	SOX2
388	FSCN1	1.256104721	0.001883197	0.010234018	24.7998747	6.980756334	Superficial	SOX2
389	MID1	1.254097172	0.006166656	0.020290909	15.17176327	4.455197887	Superficial	SOX2
390	LIN7C	1.25095532	0.005105016	0.018023407	43.72459786	13.99481155	Superficial	SOX2
391	AP1S3	1.248619366	0.002836074	0.012662188	11.99405619	3.409620745	Superficial	SOX2
392	SP110	1.247917051	0.002315114	0.011381143	19.79106955	6.139409573	Superficial	SOX2, KLF5
393	DTX3L	1.24559442	0.000795824	0.010838271	38.57229673	15.76772911	Suprabasal	SOX2
394	DAB2IP	1.245422489	0.001232925	0.012246384	23.98713205	8.994272101	Suprabasal	SOX2
395	METRNL	1.242786049	0.000317696	0.012455402	32.07582811	13.26662833	Basal	SOX2
396	FBLIM1	1.23859892	0.000992312	0.008042817	14.55913436	3.715759949	Superficial	SOX2
397	CDK5R1	1.23645138	0.000635975	0.007274975	13.61044702	4.337751879	Superficial	SOX2
398	BDP1	1.231393276	0.000250281	0.007176147	39.56516605	11.52677018	Superficial	SOX2
399	SMARCA5	1.229865827	0.000153669	0.007176147	44.63132421	14.69604831	Superficial	SOX2
400	ARHGFE1	1.222985993	0.002315114	0.011381143	18.69026155	5.468147191	Superficial	SOX2
401	ANO9	1.222957452	0.006166656	0.020290909	11.72755418	4.158654321	Superficial	KLF5, SOX2
402	TMEM30B	1.222077703	0.001232925	0.008679903	42.12799768	12.74691984	Superficial	SOX2
403	EVL	1.221452066	0.003462059	0.014108599	18.78014165	5.231162739	Superficial	SOX2
404	BTC	1.219656775	0.001883197	0.010234018	23.18820738	7.421255007	Superficial	SOX2
405	HYOU1	1.21822226	0.003462059	0.014108599	28.78499902	11.00331255	Superficial	SOX2
406	MREG	1.217754559	0.000401828	0.012455402	27.45165405	10.06667687	Basal	SOX2 + KLF5, SOX2
407	TFPI	1.217749911	0.008904627	0.040392504	20.46071555	6.988812663	Basal	SOX2
408	TFCP2	1.214854752	0.001883197	0.010234018	14.82542175	4.280428251	Superficial	SOX2
409	NOTCH3	1.213496016	0.004211401	0.016013117	41.33700568	15.82539899	Superficial	SOX2
410	MBOAT2	1.21344202	0.000795824	0.0136425	18.88332959	7.348331732	Basal	SOX2 + KLF5
411	RGMA	1.21235656	0.000795824	0.007615337	26.3261414	8.690737267	Superficial	SOX2
412	ROCK2	1.20861768	0.001232925	0.008679903	31.89008375	9.583988437	Superficial	SOX2 + KLF5
413	IL27RA	1.208220342	0.000795824	0.010838271	9.158256842	3.247951193	Suprabasal	SOX2
414	STK11IP	1.207708762	0.002836074	0.012662188	9.584264857	3.029777569	Superficial	SOX2
415	PIP5K1	1.206931468	0.000317696	0.007176147	8.678543046	2.470109768	Superficial	SOX2
416	MXRA7	1.20590904	0.006166656	0.020290909	30.70137793	7.885702193	Superficial	SOX2
417	LIMA1	1.205072658	0.001232925	0.008679903	57.36614584	22.15407701	Superficial	SOX2, SOX2 + KLF5
418	P4HA2	1.203825583	0.002315114	0.011381143	29.25974961	9.077935764	Superficial	SOX2
419	SLC25A24	1.202476433	0.002836074	0.012662188	31.87004604	9.835333136	Superficial	SOX2 + KLF5
420	E2F2	1.202226402	0.000401828	0.012455402	25.69220688	10.11018419	Basal	SOX2
421	NCS1	1.199970243	0.010644787	0.029507311	18.84944464	5.393233849	Superficial	SOX2
422	ABCC5	1.199556541	0.000506425	0.010489143	47.79352163	22.35662642	Suprabasal	SOX2
423	VSNL1	1.198717733	0.002836074	0.012662188	41.90794306	13.72784784	Superficial	SOX2
424	MUC20	1.197371809	0.006166656	0.032981404	17.33627206	6.009769404	Basal	SOX2, KLF5
425	NIPAL4	1.196951548	0.015054848	0.038009884	5.624357538	1.930404675	Superficial	SOX2
426	CYP4F12	1.196520524	0.010644787	0.029507311	28.25141081	8.950303583	Superficial	SOX2
427	FHDC1	1.196319661	0.006166656	0.020290909	23.99616288	7.021853973	Superficial	SOX2
428	SCNN1A	1.194828355	0.000992312	0.014320968	27.93955498	11.20588616	Basal	SOX2, KLF5
429	ATP8A1	1.192565378	0.000635975	0.010733065	6.400921197	2.31669173	Suprabasal	SOX2 + KLF5
430	MYO10	1.19168863	0.000635975	0.007274975	35.09234401	9.749988388	Superficial	SOX2, SOX2 + KLF5
431	AFF1	1.191217771	0.001526458	0.009387421	36.90037795	11.39818151	Superficial	SOX2, SOX2 + KLF5
432	MYCBP2	1.190959105	0.001232925	0.008679903	58.42803821	21.11847344	Superficial	SOX2
433	CNNT3	1.190903852	0.002315114	0.011381143	68.37598759	34.32034018	Superficial	SOX2, SOX2 + KLF5
434	ANXA4	1.188849498	0.000635975	0.007274975	55.84232817	19.17807815	Superficial	SOX2
435	MLLT3	1.18449493	0.002836074	0.012662188	15.62951055	4.585014268	Superficial	SOX2, SOX2 + KLF5
436	PTGS1	1.18264683	0.010644787	0.029507311	20.59203145	5.959216272	Superficial	SOX2

437	DLG3	1.181702408	0.000506425	0.007178523	53.66370214	20.84782301	Superficial	SOX2
438	CXCL16	1.179795921	0.001883197	0.010234018	46.79771293	17.26782239	Superficial	SOX2
439	ATP11B	1.178194803	0.000635975	0.007274975	65.46139314	27.9797841	Superficial	SOX2
440	CACFD1	1.177820059	0.002315114	0.011381143	14.49874791	4.530803054	Superficial	SOX2
441	MEIS1	1.17701975	0.000992312	0.008042817	34.91496587	11.38435718	Superficial	SOX2 + KLF5
442	PBX2	1.176236683	0.000153669	0.007176147	30.22501723	8.896086592	Superficial	SOX2
443	NSUN2	1.17513159	0.004211401	0.016013117	18.99430485	5.369107729	Superficial	SOX2
444	FUBP3	1.172413423	9.30E-05	0.007176147	27.44845694	8.374105466	Superficial	SOX2
445	ATP8B1	1.17101992	0.000401828	0.012455402	39.21041059	15.67056765	Basal	SOX2 + KLF5
446	PARP12	1.170055421	0.000635975	0.012925379	15.58978688	5.126299574	Basal	SOX2, SOX2 + KLF5
447	GBA2	1.169999924	0.005105016	0.018023407	14.65856801	4.196633117	Superficial	SOX2
448	EPHA2	1.169962509	0.004211401	0.027185186	30.15484264	11.81886947	Basal	SOX2
449	ZNF700	1.167879082	0.000196466	0.007176147	12.40076197	3.881582813	Superficial	SOX2
450	VPS54	1.167549799	0.004211401	0.016013117	17.16867299	4.649827082	Superficial	SOX2
451	LNBRD2	1.162448387	0.007423146	0.022959455	15.96772823	4.108028138	Superficial	SOX2
452	LRRCS9	1.161487916	0.000635975	0.007274975	42.52666787	14.53896465	Superficial	SOX2
453	FASTKD3	1.16065057	0.017811616	0.043066688	10.31174552	3.498409326	Superficial	SOX2
454	TATDN2	1.159747117	0.001883197	0.010234018	15.92499475	5.709440714	Superficial	SOX2
455	ZNF827	1.158149884	0.010644787	0.029507311	6.44223256	1.5745672	Superficial	SOX2
456	ENDOD1	1.157892731	0.001526458	0.009387421	35.09992903	11.74305729	Superficial	SOX2
457	SLC30A7	1.157881703	0.006166656	0.020290909	13.96798379	3.84775842	Superficial	SOX2
458	XBP1	1.155508829	0.003462059	0.014108599	57.3569173	22.63957265	Superficial	SOX2
459	STK26	1.15468951	0.000992312	0.008042817	31.7416801	8.213308058	Superficial	SOX2
460	BARX2	1.154142342	0.000317696	0.007176147	60.46456916	23.96402767	Superficial	SOX2 + KLF5, SOX2
461	APOBEC3C	1.150402917	0.002315114	0.011381143	31.44693812	10.14252514	Superficial	SOX2
462	TRIB1	1.147939362	0.001526458	0.016792744	28.23414165	9.735724133	Basal	SOX2
463	TP63	1.146853343	0.006166656	0.020290909	37.28071544	11.45048963	Superficial	SOX2 + KLF5, SOX2
464	SEMA3F	1.146811766	0.001883197	0.010234018	49.11393328	19.38989025	Superficial	SOX2
465	B4GALNT3	1.142848614	0.012681065	0.033478436	9.131762208	2.77867419	Superficial	SOX2 + KLF5, SOX2
466	ZCCHC2	1.141906951	0.000992312	0.008042817	16.46931387	4.382144031	Superficial	SOX2
467	RPS6KA3	1.139760282	0.001232925	0.008679903	37.84514834	11.68629436	Superficial	SOX2 + KLF5, SOX2
468	CD24	1.136471416	0.005105016	0.029792864	54.26310106	31.8283184	Basal	SOX2
469	FAM98A	1.136144885	0.000250281	0.007176147	32.20407289	10.52410277	Superficial	SOX2
470	PWWP2A	1.135767663	0.000119764	0.007176147	23.25985825	7.532852069	Superficial	SOX2
471	ROBO2	1.132994815	0.007423146	0.022959455	10.96655989	2.722355349	Superficial	SOX2 + KLF5
472	LEPROTL1	1.130920154	0.002836074	0.012662188	37.83090472	16.4397208	Superficial	SOX2
473	USP14	1.129592738	0.001526458	0.009387421	41.12020623	13.37419131	Superficial	SOX2
474	LONRF1	1.128697791	0.003462059	0.014108599	16.98832356	3.932101419	Superficial	SOX2
475	PTPN11	1.127491694	0.000250281	0.007176147	45.38995352	15.60369219	Superficial	SOX2
476	SLC44A1	1.124630481	0.010644787	0.029507311	30.70360064	9.008386975	Superficial	SOX2
477	PAPSS1	1.123121593	0.002315114	0.011381143	42.22052091	14.95779843	Superficial	SOX2
478	AMMECR1	1.123103887	0.000506425	0.007178523	40.51025441	13.19490157	Superficial	SOX2
479	ATG4D	1.120578518	0.001883197	0.010234018	42.99015922	16.54741472	Superficial	SOX2
480	FOXQ1	1.120308157	0.000795824	0.010838271	49.85377761	21.73787519	Suprabasal	SOX2 + KLF5, SOX2
481	DROSHA	1.120211159	0.002315114	0.011381143	32.9509232	3.912492171	Superficial	SOX2
482	DGCR2	1.119753322	0.000992312	0.008042817	36.05458181	11.88605041	Superficial	SOX2
483	NAT1	1.11949899	0.005105016	0.018023407	9.560135729	2.733991516	Superficial	SOX2
484	SNX7	1.118765388	0.000506425	0.007178523	24.582421	8.291960086	Superficial	SOX2
485	BCL2L2	1.118547819	0.002315114	0.011381143	33.03297089	10.55302431	Superficial	SOX2
486	OXNAD1	1.115216096	0.001232925	0.008679903	12.00572046	3.740562131	Superficial	SOX2
487	KANK1	1.115157148	0.003462059	0.014108599	45.85522332	16.13807382	Superficial	SOX2
488	FBXL18	1.11490085	0.008904627	0.025990329	18.8479122	5.558665317	Superficial	SOX2
489	TRIM4	1.114744712	0.000119764	0.007176147	21.61232033	6.44415365	Superficial	SOX2
490	CTCD	1.114599725	0.000992312	0.008042817	41.37982677	14.56407296	Superficial	SOX2
491	TMEM87A	1.112172671	9.30E-05	0.007176147	62.99294426	28.05497565	Superficial	SOX2
492	ACVR1	1.11208563	0.010644787	0.029507311	7.565015766	1.571333265	Superficial	SOX2, SOX2 + KLF5
493	PRPF8	1.110632241	0.001232925	0.008679903	43.91749476	15.59100667	Superficial	SOX2
494	SLCSA3	1.108546111	0.017811616	0.043066688	15.68467168	4.283838368	Superficial	SOX2 + KLF5
495	KNOP1	1.107463007	0.000635975	0.007274975	26.61624999	8.346682897	Superficial	SOX2
496	RASEF	1.106436035	0.002836074	0.012662188	33.89849056	10.29433174	Superficial	SOX2
497	ITPRIP	1.103478092	0.000119764	0.012455402	20.07023032	8.016875374	Basal	SOX2
498	AGAP1	1.103049375	0.004211401	0.016013117	10.92596213	3.220511929	Superficial	SOX2
499	LYPD3	1.10226506	0.001526458	0.009387421	86.62604201	62.41967361	Superficial	SOX2
500	CEBPB	1.100953174	0.001883197	0.010234018	59.35662314	25.73980246	Superficial	SOX2
501	EPHB6	1.098421093	0.002315114	0.011381143	23.20066096	6.510947152	Superficial	SOX2, SOX2 + KLF5
502	SMAD5	1.096440138	0.006166656	0.020290909	35.81411772	11.0476338	Superficial	SOX2
503	GBP6	1.096333706	0.000506425	0.007178523	71.41018052	33.62966856	Superficial	SOX2
504	ASCC3	1.096048273	0.000795824	0.007615337	35.83077768	11.24188818	Superficial	SOX2
505	FAT2	1.095564156	0.007423146	0.022959455	32.04126368	11.20764163	Superficial	SOX2
506	ECT2	1.095234017	0.004211401	0.021879278	15.76508345	5.983007448	Suprabasal	SOX2
507	ZBTB7C	1.095229116	0.006166656	0.020290909	37.09729954	12.38960308	Superficial	SOX2
508	ELK3	1.093367327	0.001883197	0.018415354	28.56296451	10.92497033	Basal	SOX2
509	CRYZ	1.092201992	0.001883197	0.010234018	21.73380901	5.586580444	Superficial	SOX2 + KLF5

510	PITPNC1	1.091116348	0.004211401	0.021879278	21.70312809	8.978402459	Suprabasal	SOX2
511	MYO1E	1.090802208	0.004211401	0.027185186	27.99278453	10.70128805	Basal	SOX2
512	LACTB2	1.090260768	0.001883197	0.010234018	20.41603957	5.557427606	Superficial	SOX2
513	ANXA8	1.088520498	0.006166656	0.020290909	37.31820819	12.19482701	Superficial	SOX2
514	PDIA3	1.087627963	0.000992312	0.008042817	71.74290452	35.69881232	Superficial	SOX2
515	EPAS1	1.087157497	0.007423146	0.030449933	48.81513341	24.82490815	Suprabasal	SOX2
516	EPHB4	1.086430382	0.002836074	0.012662188	8.61356527	3.03940643	Superficial	SOX2
517	FAM83A	1.084655702	0.000992312	0.014320968	24.79974942	11.00318279	Basal	SOX2
518	PAQR5	1.084374053	0.000401828	0.012455402	11.68677813	4.523001064	Basal	SOX2
519	ACTR1B	1.083564297	0.002836074	0.012662188	31.0276409	10.4311608	Superficial	SOX2
520	ID1	1.083067962	0.008904627	0.025990329	67.99885112	36.38589517	Superficial	SOX2
521	ITPR2	1.082561726	0.002315114	0.011381143	36.76971811	11.19914389	Superficial	SOX2, KLF5
522	TGFBR1	1.082552543	0.017811616	0.043066688	21.28035822	5.768770277	Superficial	SOX2 + KLF5
523	ELOVL5	1.081800374	0.004211401	0.021879278	35.05474557	15.29151468	Suprabasal	SOX2
524	HNRNPLL	1.081470571	0.000119764	0.007176147	19.51931021	5.953028379	Superficial	SOX2
525	CKMT1A	1.080797256	0.003462059	0.014108599	45.82714419	16.93959481	Superficial	KLF5
526	RTKN2	1.07996988	0.000401828	0.012455402	26.91170963	12.18065285	Basal	SOX2
527	IRF6	1.076699665	0.000635975	0.007274975	66.79817342	31.74169161	Superficial	SOX2
528	GJB6	1.074050502	0.010644787	0.029507311	72.67287901	34.07712441	Superficial	SOX2
529	ZNF276	1.073832933	0.004211401	0.016013117	21.6021014	8.143746	Superficial	SOX2
530	GJB3	1.073481421	0.001883197	0.010234018	52.3986983	20.43895374	Superficial	SOX2
531	ZDHHC24	1.073405826	0.005105016	0.018023407	31.33471846	10.87359273	Superficial	SOX2
532	TXLNA	1.072929136	0.007423146	0.022959455	26.7723363	9.668176579	Superficial	SOX2
533	GNPDA2	1.072787336	0.003462059	0.014108599	8.553457117	2.209436035	Superficial	SOX2
534	ATP7A	1.07034877	0.001526458	0.009387421	18.37821598	5.769978836	Superficial	SOX2
535	CDKN2B	1.070294963	0.012681065	0.049425568	18.07850545	8.341417478	Basal	SOX2
536	PCNX1	1.068627785	0.000795824	0.007615337	13.87619405	3.845484788	Superficial	SOX2
537	CDC60	1.068090748	0.004173922	0.016013117	5.07941827	1.732237896	Superficial	SOX2
538	EML4	1.066487042	0.001232925	0.008679903	29.48556773	8.712000848	Superficial	SOX2
539	ZNF219	1.066374966	0.002836074	0.012662188	38.58342754	13.5543592	Superficial	SOX2
540	RIF1	1.06443131	0.004211401	0.016013117	24.59154314	6.647944401	Superficial	SOX2
541	CDC42EP4	1.064259537	0.000506425	0.010489143	28.86197028	11.84880536	Suprabasal	SOX2
542	HR	1.060194125	0.000635975	0.007274975	22.82513006	8.75455057	Superficial	SOX2
543	WWP1	1.05999757	7.20E-05	0.007176147	45.17265309	16.34281943	Superficial	SOX2
544	BOLA2	1.059889855	0.012659085	0.033478436	27.52597963	8.841058943	Superficial	SOX2
545	HES2	1.059617182	0.000196466	0.012455402	47.53905383	23.28976828	Basal	SOX2
546	CDC42BPG	1.058014931	0.006166656	0.020290909	29.73744229	10.84726719	Superficial	SOX2
547	SQLE	1.057507387	0.010644787	0.029507311	53.21453026	22.40711233	Superficial	SOX2
548	PIGO	1.055646727	0.004211401	0.016013117	11.60956119	3.701016275	Superficial	SOX2
549	TADA3	1.055607235	0.000317696	0.007176147	40.42552055	15.3811476	Superficial	SOX2
550	ZNF1	1.05419277	0.000992312	0.014320968	16.99829037	5.815432506	Basal	SOX2
551	SMG6	1.052156641	0.000506425	0.007178523	28.41227063	10.15996499	Superficial	SOX2
552	RAB11FIP2	1.051539922	0.004211401	0.016013117	12.72551013	2.863554896	Superficial	SOX2 + KLF5, SOX2
553	GALNT12	1.049379383	0.001232925	0.008679903	34.35833398	11.63233406	Superficial	SOX2
554	PDIK1L	1.048431055	0.006166656	0.020290909	11.5882273	3.088217267	Superficial	SOX2
555	FOX1	1.047638776	0.017811616	0.043066688	15.52853274	7.61471716	Superficial	SOX2
556	COG6	1.04676455	0.001526458	0.009387421	18.12524566	6.012127181	Superficial	SOX2
557	CLDN4	1.046614095	0.003462059	0.024854712	53.00129205	29.07079485	Basal	SOX2, SOX2 + KLF5
558	TBC1D5	1.045495453	0.000506425	0.007178523	21.15279137	6.383257151	Superficial	SOX2
559	GBP2	1.043537437	0.006166656	0.020290909	43.075913	16.48742557	Superficial	SOX2, SOX2 + KLF5
560	CHCHD4	1.041517737	0.005105016	0.018023407	13.20831071	4.101917452	Superficial	SOX2
561	PIAS3	1.039484217	0.005105016	0.018023407	21.87521411	7.021571866	Superficial	SOX2
562	PDZRN3	1.038845423	0.005105016	0.018023407	9.730521189	3.580156724	Superficial	SOX2 + KLF5, SOX2
563	EPB41L5	1.038189591	0.001883197	0.010234018	32.11329554	10.05839763	Superficial	SOX2
564	TNKS	1.036998801	0.001883197	0.010234018	19.29376441	5.687144619	Superficial	SOX2
565	GJB5	1.036529192	0.012681065	0.033478436	50.72292565	17.65083088	Superficial	SOX2 + KLF5
566	MANF	1.032784742	0.003462059	0.014108599	68.1159678	32.72827979	Superficial	SOX2
567	HMGXB3	1.031603042	0.005105016	0.018023407	13.16907487	4.247519548	Superficial	SOX2
568	DLG1	1.030612623	0.000250281	0.007176147	59.02506663	26.05889543	Superficial	SOX2
569	ATAD2B	1.029425719	0.001526458	0.009387421	21.42384634	5.846551603	Superficial	SOX2
570	USP12	1.028326657	0.000506425	0.010489143	24.13745095	9.410233246	Suprabasal	SOX2, SOX2 + KLF5
571	USP42	1.027599754	0.001526458	0.009387421	11.22238109	3.728432416	Superficial	SOX2
572	APEX2	1.026096018	0.000992312	0.008042817	25.71451459	9.11992571	Superficial	SOX2
573	RAP2C	1.025837921	0.000401828	0.007176147	31.69093352	10.06563417	Superficial	SOX2
574	CGN	1.025734272	0.001526458	0.009387421	44.55844951	16.51730629	Superficial	SOX2
575	HCFC2	1.025545192	0.001526458	0.009387421	17.90303463	5.748783799	Superficial	SOX2
576	CLIP1	1.025361477	0.000250281	0.012455402	51.95265842	26.04386187	Basal	SOX2
577	SRFBP1	1.025231274	0.006166656	0.020290909	20.35835208	6.194081963	Superficial	SOX2
578	SFN	1.024113903	0.003462059	0.014108599	86.40801124	59.03093976	Superficial	SOX2
579	CHMP7	1.023040049	0.004211401	0.016013117	14.31554793	5.15490207	Superficial	SOX2
580	SEMA4C	1.020675853	0.000401828	0.012455402	13.60453169	4.878061834	Basal	SOX2
581	IMMT	1.020403361	0.007423146	0.022959455	41.15591597	13.86769913	Superficial	SOX2
582	MED27	1.016751381	0.001883197	0.010234018	20.7375588	6.37266373	Superficial	SOX2

583	STK39	1.016669337	0.001883197	0.018415354	21.59722621	8.154177809	Basal	SOX2
584	VCL	1.016433297	0.000250281	0.012455402	50.18358999	23.40486234	Basal	SOX2 + KLF5, SOX2
585	GLG1	1.014764777	0.000506425	0.007178523	38.66809769	13.84952322	Superficial	SOX2
586	DGKH	1.014239019	0.012681065	0.033478436	16.90556525	3.927563317	Superficial	SOX2
587	SPIRE2	1.012985199	0.010644787	0.038255467	4.88784887	2.320639171	Suprabasal	KLF5, SOX2
588	PDI4A	1.011720547	0.006166656	0.020290909	44.57312376	18.01306715	Superficial	SOX2
589	IPO8	1.011278306	0.002315114	0.011381143	19.10865866	6.340994881	Superficial	SOX2
590	WRNIP1	1.01058191	0.000401828	0.007176147	31.36699098	10.96769113	Superficial	SOX2
591	MRPL35	1.009994966	0.001526458	0.009387421	44.0994244	15.84466649	Superficial	SOX2
592	CYP2J2	1.009979358	0.002836074	0.012662188	39.69669461	14.93332307	Superficial	SOX2
593	SSBP2	1.008614228	0.003462059	0.014108599	34.56102056	10.69519446	Superficial	SOX2
594	EMP2	1.008286992	0.000401828	0.007176147	85.15076119	65.60610945	Superficial	SOX2
595	ELOVL1	1.007657584	0.002836074	0.012662188	67.73851337	30.2888522	Superficial	SOX2
596	WIZ	1.003348574	0.004211401	0.016013117	14.06167781	4.932187334	Superficial	SOX2
597	FLYWCH1	1.003246571	0.015054848	0.048140298	13.30169272	6.134460931	Suprabasal	SOX2
598	PANK3	1.002008835	0.005105016	0.018023407	42.2483754	14.84793779	Superficial	SOX2
599	ERBB2	1.000797318	0.003462059	0.014108599	64.90384468	29.36807898	Superficial	SOX2
600	GJB2	1.000707221	0.015054848	0.038009884	77.54819408	42.9288687	Superficial	SOX2
601	RNFBF2	1.000004846	0.001526458	0.009387421	46.98351695	20.86267964	Superficial	SOX2
602	NAA35	0.999499739	0.000250281	0.007176147	24.88781225	7.308081533	Superficial	SOX2
603	OAS3	0.999411652	0.017811616	0.043066688	33.91694122	9.730762134	Superficial	SOX2
604	SLC4A2	0.998539121	0.000506425	0.007178523	17.02633306	5.480113383	Superficial	SOX2
605	RNF220	0.998062117	0.001526458	0.009387421	21.53668386	7.445293659	Superficial	SOX2
606	CYP3A5	0.997896563	0.008904627	0.025990329	33.40356	12.07692171	Superficial	SOX2
607	PREP	0.997620789	0.000506425	0.007178523	18.8332859	5.754453574	Superficial	SOX2
608	ANKRD50	0.997212216	0.006166656	0.020290909	10.84753741	3.542220569	Superficial	SOX2
609	SMARCD1	0.996268912	0.007423146	0.022959455	14.35571326	4.114308749	Superficial	SOX2
610	CLASP2	0.995469306	0.021001058	0.04834985	17.84008933	5.495820276	Superficial	SOX2
611	CREB3	0.993048401	0.021001058	0.04834985	16.08875673	6.82847754	Superficial	SOX2
612	GSN	0.992984158	0.000250281	0.012455402	80.3245791	55.83838799	Basal	SOX2, KLF5
613	PLCH2	0.990452369	0.000317696	0.010489143	19.86664017	9.082930267	Suprabasal	SOX2
614	KDM1B	0.988968052	0.001883197	0.010234018	17.13891304	5.515185538	Superficial	SOX2
615	MAPKAPK3	0.985942266	0.000250281	0.007176147	61.16829182	27.56571044	Superficial	SOX2
616	N4BP3	0.982741775	0.000317696	0.012455402	13.99363767	5.703652307	Basal	SOX2
617	RAB3GAP2	0.981611807	0.000795824	0.007615337	30.71255762	10.52537581	Superficial	SOX2
618	CDC40	0.979458465	0.001526458	0.009387421	42.10328835	14.46730754	Superficial	SOX2
619	POBEC3B	0.978993045	0.006166656	0.032981404	10.8000218	4.018199162	Basal	SOX2
620	ETV4	0.978127481	0.021001058	0.04834985	18.32034763	5.168240674	Superficial	SOX2
621	RBM27	0.976527696	0.000317696	0.007176147	41.41526646	14.85977794	Superficial	SOX2
622	VPS13A	0.975658933	0.001883197	0.010234018	29.64566246	9.650092596	Superficial	SOX2
623	TRIM29	0.975559011	0.003462059	0.014108599	83.4744379	60.80594581	Superficial	SOX2
624	CLNS1A	0.973230763	0.001526458	0.009387421	52.95854222	20.20355588	Superficial	SOX2
625	CLDN7	0.973223705	0.000119764	0.012455402	72.00569277	42.20990403	Basal	SOX2
626	NFIL3	0.973007118	0.000153669	0.010489143	31.80256845	14.76095525	Suprabasal	SOX2
627	OVOL1	0.972186252	0.004211401	0.027185186	36.62987761	17.67239326	Basal	SOX2
628	ARL6IP6	0.971918062	0.001883197	0.010234018	27.33317617	8.29542678	Superficial	SOX2
629	VLDLR	0.971565055	0.005105016	0.018023407	34.62065303	10.68412266	Superficial	SOX2
630	EFN2B	0.971028932	0.002315114	0.011381143	34.08986984	10.68114608	Superficial	SOX2 + KLF5, SOX2
631	C5orf22	0.964610162	0.002315114	0.011381143	14.12842584	4.040622089	Superficial	SOX2
632	SLC35F6	0.963323494	0.004211401	0.016013117	36.32587527	31.52598771	Superficial	SOX2
633	SBF1	0.962933302	0.000401828	0.012455402	18.97321274	7.722577967	Basal	SOX2
634	HEATR3	0.962903361	0.010644787	0.029507311	10.24391514	3.623009779	Superficial	SOX2
635	GRHL2	0.962221635	0.002836074	0.012662188	26.28896804	9.49884602	Superficial	SOX2
636	CCDC88C	0.960891309	0.008904627	0.025990329	14.82332483	4.120973742	Superficial	SOX2 + KLF5
637	OCLN	0.95992656	0.000250281	0.012455402	16.5872587	6.29292647	Basal	SOX2
638	GK	0.959674774	0.012681065	0.033478436	22.60421961	7.571280152	Superficial	SOX2
639	CASP1	0.957510724	0.000795824	0.007615337	26.91963947	8.607716575	Superficial	KLF5
640	PATJ	0.954789173	0.000119764	0.007176147	62.19275094	28.5356374	Superficial	SOX2
641	RBM12B	0.951788942	0.007423146	0.022959455	9.07536362	2.496305965	Superficial	SOX2
642	MBNL3	0.951778334	0.005105016	0.018023407	20.86518059	7.084354369	Superficial	SOX2 + KLF5, SOX2
643	GPHN	0.950352459	0.005105016	0.018023407	10.12383445	2.84515677	Superficial	SOX2 + KLF5
644	CLASP1	0.948346748	0.003462059	0.019729589	23.72656834	10.93478622	Suprabasal	SOX2
645	TJP1	0.947613883	0.000196466	0.012455402	59.43942815	31.52598771	Basal	SOX2
646	NTF4	0.947273158	0.012681065	0.042921737	5.706436766	2.210792774	Suprabasal	SOX2
647	ITPKC	0.947170762	0.002836074	0.022562695	44.35874301	23.17878921	Basal	SOX2
648	SNRNP200	0.945149806	0.000506425	0.007178523	38.43103539	14.67962995	Superficial	SOX2
649	LIMK2	0.943596112	0.002836074	0.012662188	38.02056013	14.07641227	Superficial	SOX2
650	IFI44	0.942373886	0.012681065	0.042921737	16.09657028	5.918626253	Suprabasal	SOX2
651	IFNGR1	0.941175231	0.004211401	0.016013117	33.31017628	11.24701455	Superficial	SOX2
652	TXNDC5	0.940628861	0.000795824	0.0136425	35.12375823	13.57082836	Basal	SOX2
653	PKP1	0.940526247	0.005105016	0.018023407	73.57168146	41.33040784	Superficial	SOX2 + KLF5, SOX2
654	TM7SF2	0.940277008	0.003462059	0.014108599	74.58981573	44.97928738	Superficial	SOX2
655	ATXN1	0.939973269	0.008904627	0.025990329	30.66077976	9.153560369	Superficial	SOX2 + KLF5, SOX2

656	HYAL2	0.939193889	0.008904627	0.025990329	25.45374355	9.165485301	Superficial	SOX2
657	PIR	0.938528782	0.010644787	0.029507311	42.51794111	15.60827055	Superficial	SOX2
658	SRCAP	0.937080417	0.004211401	0.021879278	23.12213982	10.22666155	Suprabasal	SOX2
659	KDM5A	0.936624009	0.000401828	0.007176147	52.87431596	22.545332	Superficial	SOX2
660	HIPK2	0.936277725	0.000795824	0.007615337	44.33080382	16.53588677	Superficial	SOX2
661	XPR1	0.935980881	0.008904627	0.034252903	13.83697012	5.461275977	Suprabasal	SOX2
662	C11orf80	0.934813283	0.001883197	0.010234018	19.61554888	7.757036142	Superficial	SOX2
663	TLCD1	0.934508989	0.008904627	0.025990329	26.94830138	9.425029458	Superficial	SOX2
664	IL15	0.931288218	0.002836074	0.0176927	10.39551987	3.705311357	Suprabasal	SOX2, SOX2 + KLF5
665	IGF1R	0.930404525	0.003462059	0.019729589	35.5263818	16.47930112	Suprabasal	SOX2
666	VPS16	0.930332913	0.003462059	0.014108599	23.27652963	9.006523619	Superficial	SOX2
667	PARN	0.930213959	0.015054848	0.038009884	13.26146873	4.826815714	Superficial	SOX2
668	IFIH1	0.930212135	0.007423146	0.030449933	37.56081844	17.67361083	Suprabasal	SOX2 + KLF5
669	MLKL	0.929694873	0.007423146	0.022959455	13.79556589	5.302842768	Superficial	SOX2
670	BCL6	0.929155584	0.004211401	0.021879278	25.26670431	10.89606288	Suprabasal	SOX2
671	SULF2	0.926816247	0.004211401	0.021879278	56.00061141	30.06269751	Suprabasal	SOX2
672	SPRY2	0.92469581	0.003462059	0.019729589	9.968966492	3.716915077	Suprabasal	SOX2
673	RPU5D3	0.921826912	0.004211401	0.016013117	36.06544029	14.38430226	Superficial	SOX2
674	TNKS1BP1	0.921810736	0.000401828	0.007176147	19.92456963	17.19199187	Superficial	SOX2
675	METTL16	0.921425744	0.015054848	0.038009884	10.71836209	3.663641463	Superficial	SOX2
676	THUMP1	0.921027525	0.000795824	0.007615337	35.43257965	11.99410572	Superficial	SOX2
677	MORC4	0.919114825	0.021001058	0.04834985	19.58222702	6.690165479	Superficial	SOX2
678	SMPD3	0.91883153	0.012681065	0.033478436	9.692248683	3.781776836	Superficial	SOX2, KLF5, SOX2 + KLF5
679	CTSS	0.918754346	0.003462059	0.019729589	58.74895434	32.65659344	Suprabasal	SOX2
680	DDX23	0.918262459	0.000635975	0.007274975	33.28708232	12.49172321	Superficial	SOX2
681	DNAJC11	0.918087484	0.005105016	0.018023407	17.65883872	6.07592926	Superficial	SOX2
682	CHD1	0.916971655	0.002315114	0.011381143	29.52238981	10.04115794	Superficial	SOX2
683	NUP133	0.914397334	0.015054848	0.038009884	13.23558916	4.066194821	Superficial	SOX2
684	ZNF532	0.913554972	0.008904627	0.034252903	14.08271725	5.827776916	Suprabasal	SOX2
685	ANK3	0.913274645	0.012681065	0.033478436	32.92849736	10.82374859	Superficial	SOX2 + KLF5
686	PEX26	0.911924325	0.021001058	0.04834985	17.34632142	5.907570971	Superficial	SOX2
687	RTCB	0.910029323	0.000506425	0.007178523	64.11821594	31.35594231	Superficial	SOX2
688	AFG3L2	0.909662689	0.001526458	0.009387421	45.0308695	18.25711922	Superficial	SOX2
689	UBE3C	0.908984058	0.002315114	0.011381143	28.28995982	9.861957868	Superficial	SOX2
690	SCEL	0.908585979	0.004211401	0.027185186	35.21521921	18.03409494	Basal	SOX2
691	CCAR1	0.908014534	0.008904627	0.025990329	41.8177982	14.38612398	Superficial	SOX2
692	TNFSF10	0.906889478	0.001526458	0.016792744	90.0032318	67.96705726	Basal	SOX2, KLF5
693	SLC45A4	0.906108969	0.008904627	0.040392504	8.764812014	2.929838771	Basal	SOX2
694	MAGED2	0.905063097	0.000635975	0.007274975	36.3342794	13.70758675	Superficial	SOX2
695	BAC	0.904694009	0.000795824	0.0136425	21.22696209	8.213040475	Basal	SOX2
696	ITPR3	0.90283063	0.001526458	0.016792744	27.31887442	11.01249269	Basal	SOX2
697	ARHGEF5	0.902031503	0.004211401	0.021879278	49.08157174	27.73966165	Suprabasal	SOX2
698	TBC1D10A	0.901080387	0.004211401	0.016013117	31.31177269	11.81774667	Superficial	SOX2
699	ANKIB1	0.900545456	0.000153669	0.007176147	37.04964394	13.30203144	Superficial	SOX2
700	SLC4A7	0.899999926	0.017811616	0.043066688	6.29061434	1.861275296	Superficial	SOX2 + KLF5
701	FXYD3	0.899656014	0.002315114	0.011381143	87.03589411	66.84367355	Superficial	SOX2
702	CDKAL1	0.89933994	0.000506425	0.007178523	11.61467749	3.791144178	Superficial	SOX2
703	FURIN	0.899232364	0.000153669	0.012455402	17.94979085	6.915633525	Basal	SOX2
704	CAMSAP1	0.899201892	0.000119764	0.012455402	33.88678212	15.33563619	Basal	SOX2
705	PHC2	0.896625623	0.001883197	0.010234018	17.54207804	6.22869448	Superficial	SOX2
706	LRRRC42	0.895968102	0.001232925	0.008679903	32.72943189	11.61962184	Superficial	SOX2
707	SLC39A6	0.895816619	0.006166656	0.020290909	16.16572683	4.572418678	Superficial	SOX2
708	ST14	0.89536654	7.20E-05	0.012455402	50.40009109	25.34790976	Basal	SOX2, SOX2 + KLF5
709	PLEKHG3	0.895015137	0.015054848	0.038009884	13.95511449	4.823953346	Superficial	SOX2
710	TIAM1	0.894450063	0.000992312	0.008042817	54.68463967	24.04975501	Superficial	SOX2
711	KIAA1217	0.893786401	0.000992312	0.008042817	53.56579201	21.83646765	Superficial	SOX2
712	SPECC1L	0.893320652	0.001232925	0.015721789	24.77042245	9.815567676	Basal	SOX2
713	EPN2	0.893135704	0.000795824	0.007615337	63.41211342	30.86327485	Superficial	SOX2 + KLF5
714	BMPR2	0.892138295	0.001883197	0.010234018	38.46729266	14.761013	Superficial	SOX2, SOX2 + KLF5
715	CDCP1	0.890652929	0.000992312	0.008042817	66.76017312	32.69936178	Superficial	SOX2
716	TNRC18	0.889205782	0.017811616	0.043066688	24.24592989	8.527045348	Superficial	SOX2 + KLF5, SOX2
717	TOMM70	0.887267944	0.003462059	0.014108599	30.88206662	10.68652037	Superficial	SOX2
718	KCNK7	0.886984141	0.012681065	0.033478436	31.28106222	10.82219727	Superficial	SOX2
719	EPHB3	0.885669184	0.001526458	0.016792744	17.94114574	7.389341179	Basal	SOX2
720	BMPR1A	0.882293181	0.003462059	0.014108599	12.01608827	3.634607464	Superficial	SOX2
721	TRAF3IP1	0.882212095	0.005105016	0.018023407	14.53927799	4.312759643	Superficial	SOX2
722	NOL10	0.882088665	0.015054848	0.038009884	17.02148532	6.188813952	Superficial	SOX2 + KLF5, SOX2
723	RNF19B	0.881491342	0.000506425	0.012898798	25.32034955	10.32639443	Basal	SOX2 + KLF5, SOX2
724	UGCG	0.880956022	0.000317696	0.012455402	41.6884798	18.93866914	Basal	SOX2, SOX2 + KLF5
725	ABLIM2	0.87843226	0.001232925	0.012246384	21.47830619	10.05916517	Suprabasal	SOX2
726	CEP170B	0.878140221	0.000401828	0.012455402	19.88590991	7.313422792	Basal	SOX2
727	MORC2	0.87731019	0.001526458	0.009387421	11.36270155	3.478454545	Superficial	SOX2
728	FTSJ3	0.876905147	0.000635975	0.007274975	19.33425643	6.629415989	Superficial	SOX2

729	NOTCH1	0.876227202	0.003462059	0.024854712	28.32956634	13.11437681	Basal	SOX2
730	ZDHHCL16	0.875936954	0.008904627	0.025990329	18.0535891	6.514104604	Superficial	SOX2
731	IGSF3	0.875568181	0.004211401	0.016013117	20.64854284	7.060117599	Superficial	SOX2
732	METT114	0.875376042	0.002836074	0.012662188	20.15456999	6.39679254	Superficial	SOX2
733	HDFG	0.875145778	0.000506425	0.007178523	63.33322983	30.12978082	Superficial	SOX2
734	BTG1	0.874641303	7.20E-05	0.007176147	76.33575407	46.9884185	Superficial	SOX2, SOX2 + KLF5
735	CHRAC1	0.874329147	0.001526458	0.009387421	32.58122904	11.03633825	Superficial	SOX2
736	PPP1R26	0.874196498	0.000795824	0.010838271	9.010442668	3.864186864	Suprabasal	SOX2
737	CAMSAP3	0.873243075	0.001232925	0.015721789	12.6460333	5.306066422	Basal	SOX2
738	TP53RK	0.873165537	0.001883197	0.010234018	34.69402438	13.34150254	Superficial	SOX2
739	LETM1	0.872109216	0.000635975	0.007274975	48.00505357	21.60553929	Superficial	SOX2
740	RBM19	0.870734356	0.008904627	0.025990329	9.455645202	3.177116214	Superficial	SOX2
741	NOP14	0.870040844	0.012681065	0.033478436	17.67069829	5.687473923	Superficial	SOX2
742	SLC25A46	0.869726759	0.010644787	0.029507311	27.18592165	9.768766573	Superficial	SOX2
743	NLRX1	0.869680205	0.006166656	0.020290909	44.2626525	19.65292128	Superficial	SOX2
744	ADCK2	0.869583124	0.007423146	0.022959455	21.60813141	8.531418818	Superficial	SOX2
745	RAB3D	0.86952271	0.015054848	0.038009884	36.43417123	14.40115223	Superficial	SOX2
746	HNRNPAB	0.868905205	0.002836074	0.012662188	55.3602438	22.22158232	Superficial	SOX2
747	C5NK1G3	0.868108155	0.000635975	0.007274975	25.97849208	8.715818884	Superficial	SOX2
748	PLXNA2	0.867985641	0.006166656	0.020290909	29.09724384	8.662493629	Superficial	SOX2
749	POLR3A	0.867854544	0.017811616	0.043066688	9.674285364	2.890829878	Superficial	SOX2
750	PLOD2	0.867405121	0.003462059	0.014108599	24.23100976	7.329784954	Superficial	SOX2
751	CLOCK	0.867335537	0.015054848	0.038009884	35.97663274	12.96369281	Superficial	SOX2
752	VRK2	0.866624796	0.002836074	0.012662188	27.63407787	9.880195058	Superficial	SOX2
753	MTA2	0.866164613	0.017811616	0.043066688	24.48027662	10.40104993	Superficial	SOX2
754	IRF1	0.864606905	7.20E-05	0.012455402	66.36951881	38.12897296	Basal	SOX2
755	SPSB2	0.863671948	0.021001058	0.04834985	12.26063796	4.552374875	Superficial	SOX2
756	UNC45A	0.863347383	0.008904627	0.025990329	30.21492431	11.95655965	Superficial	SOX2
757	FAM110C	0.863318044	0.000401828	0.010489143	49.1183436	27.19016149	Suprabasal	SOX2, SOX2 + KLF5
758	RNF214	0.860639186	0.000992312	0.008042817	20.37905803	7.210504233	Superficial	SOX2
759	NLN	0.860495589	0.002836074	0.012662188	10.91799313	3.618501469	Superficial	SOX2
760	NSMAF	0.858277222	0.012681065	0.033478436	11.88905994	4.845257228	Superficial	SOX2
761	TPST1	0.858189681	0.000992312	0.01142308	22.00115385	9.487918828	Suprabasal	SOX2
762	MCMBP	0.856648759	0.000401828	0.007176147	28.42016649	10.86479165	Superficial	SOX2
763	OSBP	0.855633877	0.006166656	0.020290909	40.09049547	16.42969957	Superficial	SOX2
764	FAS	0.855309759	0.000196466	0.010489143	28.48938444	12.96714597	Suprabasal	SOX2
765	LUZP1	0.855211261	0.000196466	0.007176147	37.10983106	13.77168569	Superficial	SOX2
766	SLC10A3	0.855190282	0.008904627	0.025990329	24.99035341	9.877241285	Superficial	SOX2
767	PDCD4	0.852743281	0.005105016	0.018023407	76.60735903	42.69342999	Superficial	SOX2
768	PHF14	0.852521794	0.002836074	0.012662188	29.36397933	9.593443001	Superficial	SOX2
769	HADAC1	0.851318097	0.000992312	0.008042817	61.95501145	30.23757095	Superficial	SOX2
770	FCHSD2	0.850963554	0.002836074	0.0176927	8.91420517	4.048490828	Suprabasal	SOX2 + KLF5
771	ERCC3	0.849248528	0.008904627	0.025990329	12.5092704	4.311489353	Superficial	SOX2
772	DMRTA2	0.848884765	0.002315114	0.016074975	6.741522978	3.19563976	Suprabasal	SOX2
773	ALCAM	0.848190649	0.007423146	0.022959455	11.32639601	3.871626927	Superficial	SOX2 + KLF5, SOX2
774	SKIV2L	0.848108426	0.000506425	0.007178523	13.76146259	4.464769501	Superficial	SOX2
775	DSC2	0.846921441	0.017811616	0.043066688	72.26288159	40.41740992	Superficial	SOX2
776	DTNBP1	0.846794959	0.021001058	0.04834985	14.28105129	4.932464707	Superficial	SOX2 + KLF5
777	BORCS5	0.846268858	0.002836074	0.012662188	20.25345521	7.504594465	Superficial	SOX2
778	POLE	0.846155403	0.002836074	0.0176927	7.470452375	3.782665953	Suprabasal	SOX2
779	MAP3K8	0.845745236	0.004211401	0.027185186	25.65143559	12.18378813	Basal	SOX2, SOX2 + KLF5
780	RUFY3	0.844831691	0.000635975	0.007274975	44.04485076	16.50861145	Superficial	SOX2
781	ITGA3	0.844554837	0.007423146	0.030449933	13.76692359	6.266478229	Suprabasal	SOX2
782	ARFGF2	0.844127629	0.002315114	0.011381143	41.32971032	15.23832937	Superficial	SOX2
783	SPNS1	0.842942886	0.003462059	0.014108599	21.89951967	7.858241511	Superficial	SOX2
784	UBR5	0.842481048	0.006166656	0.020290909	41.02552479	15.33512244	Superficial	SOX2
785	ALG9	0.839853938	0.007423146	0.022959455	10.62872224	4.26325388	Superficial	SOX2
786	MTHFD1L	0.839822411	0.007423146	0.036548425	14.53056637	6.246920981	Basal	SOX2
787	CHD4	0.839801259	0.000635975	0.007274975	57.16082184	26.07656657	Superficial	SOX2
788	OAF	0.839505259	0.003462059	0.019729589	13.15030459	5.79206902	Suprabasal	SOX2
789	MAP4	0.839469094	0.000506425	0.007178523	56.55506459	24.597045	Superficial	SOX2
790	GLE1	0.835935781	0.008904627	0.025990329	16.91032054	5.336535038	Superficial	SOX2
791	NECTIN4	0.835610283	0.000635975	0.012925379	30.87073029	15.59987036	Basal	SOX2
792	IWS1	0.83526127	0.001526458	0.009387421	33.72332735	12.23744966	Superficial	SOX2
793	RBM12	0.834785213	0.001232925	0.008679903	23.96776883	8.159807832	Superficial	SOX2
794	CCDC71L	0.834591944	0.006166656	0.020290909	18.69169873	6.190759114	Superficial	SOX2
795	MACC1	0.834417685	0.001883197	0.018415354	24.81749513	10.86425508	Basal	SOX2 + KLF5, SOX2
796	HES1	0.834394053	0.015054848	0.038009884	72.77617354	40.31242283	Superficial	SOX2
797	DNMBP	0.834004899	0.017811616	0.043066688	12.19837134	4.683669686	Superficial	SOX2 + KLF5
798	EFL1	0.833887149	0.002836074	0.012662188	12.54418382	4.708387837	Superficial	SOX2
799	YLPMP1	0.833877819	0.004211401	0.016013117	21.200338158	7.420526934	Superficial	SOX2
800	PHC3	0.833132444	0.021001058	0.04834985	15.7324662	4.172159185	Superficial	SOX2
801	ARHGAP1	0.832801399	0.001526458	0.009387421	49.16523241	21.6705731	Superficial	SOX2

802 MTMR4	0.832773168	0.012681065	0.033478436	12.61282616	4.384877816	Superficial	SOX2
803 USP34	0.831927479	0.000250281	0.007176147	48.76179144	19.59301972	Superficial	SOX2
804 LTN1	0.831844928	0.003462059	0.014108599	32.27681339	10.69037507	Superficial	SOX2
805 SAMD8	0.83084174	0.007423146	0.022959455	30.77720131	12.43241064	Superficial	SOX2
806 LTBP4	0.830027435	0.000795824	0.010838271	42.65305007	22.45104814	Suprabasal	SOX2
807 EFNB1	0.828770052	0.007423146	0.022959455	12.44857866	4.371969674	Superficial	SOX2
808 TAF15	0.827829113	0.002836074	0.012662188	46.64494557	17.66507047	Superficial	SOX2
809 ZNF205	0.827619182	0.006166656	0.020290909	9.321767583	3.501849539	Superficial	SOX2
810 DSC3	0.82685136	0.021001058	0.04834985	60.40379599	27.05844558	Superficial	SOX2 + KLF5, SOX2
811 TDG	0.826493209	0.005105016	0.018023407	45.1714113	18.47106601	Superficial	SOX2
812 PPA2	0.825614967	0.000795824	0.007615337	45.85643088	18.36050404	Superficial	SOX2
813 EPB41L2	0.825187272	0.012681065	0.042921737	13.2310882	5.383598174	Suprabasal	SOX2
814 RHOV	0.824745801	0.000506425	0.012898798	55.32474773	31.36023103	Basal	SOX2
815 THOC3	0.823897476	0.010644787	0.029507311	59.47882876	28.67750392	Superficial	SOX2
816 TWf2	0.823549219	0.000992312	0.008042817	58.15254953	27.21826086	Superficial	SOX2 + KLF5
817 ATRN	0.823194799	0.021001058	0.04834985	17.37967553	6.135836441	Superficial	SOX2
818 PPL	0.822801611	0.000317696	0.012455402	57.78159745	33.11426547	Basal	SOX2, SOX2 + KLF5
819 FBXO38	0.822800065	0.000992312	0.008042817	19.93874301	6.63278819	Superficial	SOX2
820 MRPS35	0.82271128	0.012681065	0.033478436	41.47677578	15.25102828	Superficial	SOX2
821 ACAD9	0.822605788	0.000401828	0.007176147	36.21095613	14.39931058	Superficial	SOX2 + KLF5
822 SNX12	0.822585602	0.006166656	0.020290909	25.06938895	11.27638862	Superficial	SOX2
823 TFAP2A	0.820450997	0.002315114	0.011381143	42.82071234	17.82890683	Superficial	SOX2
824 ATN1	0.819507951	0.000992312	0.008042817	32.18520156	12.76600372	Superficial	SOX2
825 CPT2	0.818968522	0.015054848	0.038009884	23.64381963	8.697933431	Superficial	SOX2
826 SPTLC2	0.817816947	0.008904627	0.025990329	58.58796534	29.63327216	Superficial	SOX2
827 HACE1	0.816745618	0.008904627	0.034252903	13.23797985	6.170834204	Suprabasal	SOX2
828 PIM1	0.816682613	0.000506425	0.012898798	35.4644167	17.60863066	Basal	SOX2 + KLF5, SOX2
829 DHX16	0.816455155	0.000992312	0.008042817	20.49134581	7.234232442	Superficial	SOX2
830 DNAAF2	0.815990058	0.008904627	0.025990329	12.88862781	5.011421676	Superficial	SOX2
831 SDC1	0.813719129	0.002315114	0.011381143	87.75694466	66.95145226	Superficial	SOX2
832 ELL3	0.813317704	0.015054848	0.048140298	7.192728655	3.329046936	Suprabasal	SOX2
833 CCNE1	0.812722988	0.001883197	0.018415354	11.8773326	5.413782807	Basal	SOX2
834 PLXNB2	0.812108846	0.001232925	0.015721789	46.65187659	22.95899987	Basal	SOX2
835 WDR47	0.811734977	5.55E-05	0.012455402	35.21788058	15.80573817	Basal	SOX2
836 MID1IP1	0.810782697	0.002836074	0.012662188	33.06994348	13.45685532	Superficial	SOX2
837 MFN1	0.810406977	0.000795824	0.007615337	37.4800731	14.78617492	Superficial	SOX2
838 EFNA4	0.809859537	0.003462059	0.014108599	21.55207442	7.257920127	Superficial	SOX2
839 ARMCX3	0.808889184	0.001883197	0.010234018	22.49931016	7.20222225	Superficial	SOX2
840 DDX46	0.808617792	0.001883197	0.010234018	55.8352134	23.18074829	Superficial	SOX2
841 NXF1	0.808612993	0.021001058	0.04834985	18.32360737	7.616265295	Superficial	SOX2
842 NDUFV1	0.808605636	0.008904627	0.025990329	58.69079218	25.16361058	Superficial	SOX2
843 KIF1C	0.808132244	0.000401828	0.012455402	35.31714962	16.56280017	Basal	SOX2
844 CCKND2D	0.807747808	0.017811616	0.043066688	31.18476328	12.50599597	Superficial	SOX2
845 TMED5	0.807701462	0.001883197	0.010234018	40.71109999	16.55487528	Superficial	SOX2
846 ANKRD22	0.804461386	0.001526458	0.009387421	53.90767745	23.26610733	Superficial	SOX2
847 MCPH1	0.800090408	0.012681065	0.033478436	17.43680128	6.513088304	Superficial	SOX2
848 FNDC3A	0.800001038	0.004211401	0.016013117	20.19240284	7.23045575	Superficial	SOX2
849 SIRT1	0.799938477	0.007423146	0.022959455	14.80977543	4.692575729	Superficial	SOX2
850 LRPPRC	0.798944589	0.021001058	0.04834985	31.40078505	9.816116635	Superficial	SOX2
851 ATP5F1A	0.798738249	0.006166656	0.020290909	71.23746796	38.86356897	Superficial	SOX2
852 CPSF2	0.798423626	0.000992312	0.008042817	34.48820073	13.36730562	Superficial	SOX2
853 UBALD2	0.798313434	0.000250281	0.012455402	58.45055428	32.53669687	Basal	SOX2
854 SFPQ	0.797818023	0.001232925	0.008679903	61.97537887	29.57785022	Superficial	SOX2
855 SLC52A2	0.797173775	0.010644787	0.029507311	28.79074487	10.90435535	Superficial	SOX2
856 NFRKB	0.797033244	0.004211401	0.016013117	12.0529207	4.844985206	Superficial	SOX2
857 ABHD13	0.796556468	0.000992312	0.008042817	22.41406526	8.264951864	Superficial	SOX2
858 ARHGAP21	0.795336566	0.004211401	0.021879278	36.03350368	18.17611891	Suprabasal	SOX2
859 EVPL	0.793544001	0.000795824	0.0136425	44.99753962	23.63771042	Basal	SOX2
860 MSH3	0.793458301	0.003462059	0.014108599	22.98398105	7.918764414	Superficial	SOX2
861 ARL1	0.79214833	0.001232925	0.008679903	71.80733536	42.39486522	Superficial	SOX2
862 KCTD1	0.790819901	0.000795824	0.007615337	50.90920202	21.19738831	Superficial	SOX2, SOX2 + KLF5
863 FAM199X	0.790489698	0.000992312	0.008042817	33.68678037	12.41133265	Superficial	SOX2
864 IPPK	0.790086212	0.021001058	0.04834985	32.36939208	11.4416446	Superficial	SOX2
865 GRIPAP1	0.790033602	0.000992312	0.008042817	32.41525033	11.48465582	Superficial	SOX2
866 IGSF8	0.789619705	0.002315114	0.011381143	14.91047128	5.385316998	Superficial	SOX2
867 SMARCE1	0.788128386	0.000401828	0.007176147	53.98102131	23.8797572	Superficial	SOX2
868 PAK1	0.786995191	0.000635975	0.007274975	29.64145241	11.08264459	Superficial	SOX2
869 SLC22A18	0.786650694	0.000992312	0.008042817	27.90101417	9.786049759	Superficial	SOX2
870 SCRIB	0.785180723	0.000317696	0.012455402	24.07048471	10.71812052	Basal	SOX2
871 PPP2R1B	0.785024498	0.002836074	0.012662188	28.21036033	10.75997223	Superficial	SOX2
872 KLIK10	0.784915262	0.001883197	0.018415354	49.63143813	30.40373894	Basal	SOX2
873 ESRP2	0.784736975	0.003462059	0.014108599	49.49809927	23.21995429	Superficial	SOX2
874 DSP	0.78419116	0.000506425	0.012898798	95.57120634	83.16967388	Basal	SOX2, SOX2 + KLF5

875	SUPT6H	0.783663486	0.001883197	0.010234018	39.09967722	17.04241278	Superficial	SOX2
876	NSD1	0.782623544	0.000250281	0.007176147	44.34785098	18.99005533	Superficial	SOX2
877	RARG	0.781083073	0.000401828	0.007176147	76.26745981	42.47873787	Superficial	SOX2
878	RASSF6	0.780974466	0.021001058	0.04834985	19.09196449	5.374914478	Superficial	SOX2, SOX2 + KLF5
879	TRIM5	0.780767742	0.021001058	0.04834985	14.72009644	4.341097256	Superficial	SOX2
880	ARHGAP35	0.779858557	0.000795824	0.007615337	30.72874296	11.10752697	Superficial	SOX2
881	TBRG4	0.777140895	0.017811616	0.043066688	23.73424314	8.528389369	Superficial	SOX2
882	TRABD	0.776314911	0.006166656	0.020290909	44.64577932	19.65405638	Superficial	SOX2
883	ARMCX6	0.776127211	0.001883197	0.010234018	31.53888816	12.22350712	Superficial	SOX2
884	NCOA5	0.775988711	0.008904627	0.025990329	9.113392929	3.455771311	Superficial	SOX2
885	FRMD4B	0.772823978	0.001526458	0.009387421	72.27208121	40.58876961	Superficial	SOX2
886	LAP3	0.771547699	0.001883197	0.010234018	40.8294852	15.63526895	Superficial	SOX2
887	CDC42BPB	0.770069085	0.000153669	0.012455402	39.33363482	18.95615945	Basal	SOX2
888	SLC7A8	0.768503851	0.003462059	0.014108599	23.18110177	9.569188016	Superficial	SOX2
889	TMEM154	0.766978768	0.010644787	0.029507311	73.62469979	44.77279121	Superficial	SOX2
890	TXN	0.766068419	0.017811616	0.043066688	94.92987078	90.59413398	Superficial	SOX2
891	CAAP1	0.765982227	0.001232925	0.008679903	27.8715948	10.35073339	Superficial	SOX2
892	ZNF407	0.765275288	0.005105016	0.018023407	9.565013872	2.98368203	Superficial	SOX2
893	TAB1	0.765243129	0.008904627	0.025990329	7.66350226	2.519377628	Superficial	SOX2
894	TPM4	0.765005693	0.002836074	0.022562695	83.37863428	60.677827	Basal	SOX2
895	UTP6	0.764059543	0.001883197	0.010234018	24.32650647	9.796163309	Superficial	SOX2
896	ZNF142	0.763854846	0.000795824	0.010838271	7.199945873	3.709384109	Suprabasal	SOX2
897	USP7	0.762927097	0.00506425	0.007178523	57.37381352	26.69855543	Superficial	SOX2
898	TKFC	0.762788105	0.021001058	0.04834985	15.27432299	5.605121704	Superficial	SOX2
899	TTC17	0.761819095	0.008904627	0.025990329	24.36359453	8.844420798	Superficial	SOX2
900	PXK	0.758536609	0.005105016	0.018023407	14.76121213	4.158985349	Superficial	SOX2
901	NMB	0.757007026	0.003462059	0.024854712	19.49023009	8.735687673	Basal	SOX2
902	PIGK	0.75685835	0.010644787	0.029507311	10.61173633	3.827762891	Superficial	SOX2
903	PRPF40A	0.755048603	0.000795824	0.007615337	58.42226805	27.22883402	Superficial	SOX2
904	RIPK4	0.753786917	0.000506425	0.010489143	56.92429997	34.29619525	Suprabasal	SOX2
905	MARCKSL1	0.753039523	0.005105016	0.029792864	19.57397271	7.984022926	Basal	SOX2
906	COX10	0.75216747	0.017811616	0.043066688	15.53587995	5.187538716	Superficial	SOX2
907	XRN2	0.751931606	0.008904627	0.025990329	38.10142195	14.27251888	Superficial	SOX2
908	POR	0.751814117	0.000992312	0.008042817	66.781586	35.01139862	Superficial	KLF5, SOX2
909	MECOM	0.750699729	0.002315114	0.016074975	56.52334109	32.74640448	Suprabasal	KLF5
910	PLP2	0.749774242	0.010644787	0.029507311	77.34020689	49.58391191	Superficial	SOX2
911	RAB11FIP4	0.74958562	0.002836074	0.022562695	11.93939559	4.465728883	Basal	SOX2
912	CRADD	0.748667913	0.007423146	0.022959455	14.26033086	4.924503899	Superficial	SOX2 + KLF5
913	ATXN7L3B	0.748484548	0.000153669	0.007176147	44.03819642	18.55042579	Superficial	SOX2
914	GRIP1	0.747835615	0.003462059	0.019729589	7.134486236	3.06073658	Suprabasal	SOX2 + KLF5
915	NIPAL1	0.747293766	0.001883197	0.010234018	58.7054824	29.04320719	Superficial	SOX2
916	RASA1	0.747100481	0.003462059	0.014108599	25.67635873	8.934911271	Superficial	SOX2
917	MFSD6	0.746746359	0.012681065	0.033478436	53.60128769	24.41723396	Superficial	SOX2
918	INTS2	0.746668773	0.010644787	0.029507311	8.778939305	2.442925882	Superficial	SOX2
919	CDC34	0.746367735	0.001526458	0.013290882	40.02681251	19.40977035	Suprabasal	SOX2
920	UBR7	0.74631484	0.012681065	0.033478436	16.05246902	5.706209921	Superficial	SOX2
921	SNTB2	0.745802206	0.001883197	0.010234018	27.06126241	9.939822852	Superficial	SOX2
922	MAN1A2	0.744280933	0.001883197	0.010234018	50.53089819	20.95246014	Superficial	SOX2
923	NDUFA8	0.743813982	0.004211401	0.016013117	56.18648971	26.12503468	Superficial	SOX2
924	EIF3B	0.74245088	0.005105016	0.018023407	43.13425729	17.85244483	Superficial	SOX2
925	POLR3B	0.74062025	0.000506425	0.007178523	21.82467954	8.464220903	Superficial	SOX2
926	WNK4	0.739616678	0.008904627	0.025990329	16.96339688	6.600647357	Superficial	SOX2
927	MRPS30	0.739498814	0.010644787	0.029507311	26.85606255	9.562664138	Superficial	SOX2
928	RBBP8NL	0.738379695	0.008904627	0.025990329	18.58587441	7.808829489	Superficial	SOX2
929	ARFGAP3	0.737414745	0.004211401	0.016013117	34.43334593	13.93679235	Superficial	SOX2 + KLF5
930	PRRC2B	0.737288087	0.004211401	0.016013117	37.54429978	15.16190471	Superficial	SOX2
931	CLIC4	0.737162028	0.007423146	0.036548425	18.68317984	8.50586959	Basal	SOX2
932	AFDN	0.736654672	5.55E-05	0.012455402	48.38939108	25.14959746	Basal	SOX2
933	PHF13	0.73612879	0.000635975	0.012925379	18.94767185	8.609546677	Basal	SOX2
934	ZYX	0.735779973	0.015054848	0.038009884	36.28202793	16.07075639	Superficial	SOX2
935	TMEM98	0.735476257	0.008904627	0.034252903	30.33653877	14.52821983	Suprabasal	SOX2
936	BICDL2	0.735059923	0.002315114	0.020052792	22.07254004	10.57748777	Basal	SOX2
937	PRC1	0.734220942	0.002836074	0.022562695	44.06968575	25.03313541	Basal	SOX2
938	ZNF131	0.733472982	0.002315114	0.011381143	25.08109627	8.963884002	Superficial	SOX2
939	PIK3R1	0.733066436	0.007423146	0.022959455	19.32332041	6.742500994	Superficial	SOX2
940	BST2	0.732636317	0.012681065	0.049425568	41.46014877	20.02884409	Basal	SOX2
941	MGST3	0.732351335	0.010644787	0.029507311	65.51241176	32.75084606	Superficial	SOX2
942	HTATIP2	0.732198546	0.005105016	0.018023407	54.11311985	24.77233011	Superficial	SOX2
943	ZPR1	0.730854063	0.017811616	0.043066688	28.17455576	10.73635346	Superficial	SOX2
944	URI1	0.730252363	0.000795824	0.007615337	48.99660551	20.34154253	Superficial	SOX2
945	EZR	0.72742657	0.002315114	0.020052792	82.97696886	59.68243158	Basal	SOX2 + KLF5, SOX2
946	TMEM184A	0.726810155	0.006166656	0.032981404	16.76278201	7.803146974	Basal	SOX2
947	GRB7	0.726375743	0.000317696	0.012455402	39.18241856	19.55517725	Basal	SOX2

948 MRPL4	0.726193947	0.008904627	0.025990329	43.49259063	17.67791629	Superficial	SOX2
949 AKAP13	0.72614015	0.000635975	0.007274975	69.84387281	38.37719104	Superficial	SOX2
950 ICMT	0.726052153	0.000992312	0.014320968	39.13219758	20.3780701	Basal	SOX2
951 G3BP1	0.72578975	0.017811616	0.043066688	45.8882534	18.82497802	Superficial	SOX2
952 INPP5F	0.725043383	0.007423146	0.022959455	13.93767328	4.990127193	Superficial	SOX2
953 RNF138	0.724834032	0.017811616	0.043066688	16.12579921	5.149135029	Superficial	SOX2
954 ETV3	0.724257442	0.006166656	0.027303057	36.51993618	18.36824247	Suprabasal	SOX2
955 PBDC1	0.724096304	0.007423146	0.022959455	47.58340403	19.4017906	Superficial	SOX2
956 TBC1D4	0.722873499	0.017811616	0.043066688	9.618053519	3.152159836	Superficial	SOX2
957 WWC2	0.722704636	0.000635975	0.012925379	14.52289953	5.932481265	Basal	SOX2
958 CD82	0.721546364	0.012681065	0.033478436	57.52904438	27.31531055	Superficial	SOX2
959 PFKP	0.720566334	0.002836074	0.022562695	42.15295301	21.9314053	Basal	SOX2
960 GTF3C5	0.72007063	0.001526458	0.009387421	28.57071781	12.03709938	Superficial	SOX2
961 SUGT1	0.719687512	0.001232925	0.008679903	60.55400256	28.61191437	Superficial	SOX2
962 EIF4G1	0.718208604	0.000635975	0.012925379	63.74988687	36.77598904	Basal	SOX2
963 RHBDD2	0.717960761	0.000992312	0.01142308	43.30584464	25.55995337	Suprabasal	SOX2
964 RAB3IP	0.717948673	0.001232925	0.012246384	18.14985456	8.781444715	Suprabasal	SOX2
965 GOPC	0.717192669	0.000506425	0.007178523	40.99698046	17.8396565	Superficial	SOX2
966 CA13	0.716964043	0.012681065	0.033478436	26.84068309	9.406202184	Superficial	SOX2
967 FOXP4	0.716400668	0.000635975	0.012925379	10.1266356	4.367339639	Basal	SOX2
968 DIAPH1	0.715897124	0.000992312	0.014320968	49.98329195	26.85333151	Basal	SOX2
969 MPHOSPH10	0.715736333	0.006166656	0.020290909	41.49656213	16.38485875	Superficial	SOX2
970 PPIC	0.715013805	0.015054848	0.038009884	68.41924217	34.96201968	Superficial	SOX2
971 KHDRBS1	0.714588018	0.000401828	0.007176147	62.73550413	29.47083304	Superficial	SOX2
972 UTP3	0.714515084	0.006166656	0.020290909	25.70999785	9.52559203	Superficial	SOX2
973 SPEN	0.713127731	0.002836074	0.012662188	48.98677362	21.73061439	Superficial	SOX2
974 KREMEN1	0.713062714	0.000401828	0.012455402	51.12077132	27.52790114	Basal	SOX2
975 TMMEM147	0.712669208	0.007423146	0.022959455	72.89427386	49.57190643	Superficial	SOX2
976 TOM1L1	0.712554624	0.004211401	0.016013117	23.61587939	8.747457616	Superficial	SOX2
977 TECPR2	0.712470979	9.30E-05	0.010489143	13.29861592	6.763670291	Suprabasal	SOX2
978 NR6A1	0.711946773	0.002315114	0.016074975	14.65826514	7.063050314	Suprabasal	SOX2
979 KHDRBS3	0.710487783	0.000635975	0.012925379	11.98724433	5.379939887	Basal	SOX2 + KLF5
980 GTF3C2	0.70899392	0.002836074	0.012662188	27.90357716	11.75661752	Superficial	SOX2
981 SETD7	0.708207417	0.000635975	0.007274975	27.99014587	13.201659	Superficial	SOX2
982 PARD6G	0.708078019	0.004211401	0.016013117	44.41779238	18.59663141	Superficial	SOX2
983 LASP1	0.70727919	0.001526458	0.016792744	36.89944035	16.6859833	Basal	SOX2
984 MIPEP	0.707166754	0.021001058	0.04834985	10.893853	3.702076167	Superficial	SOX2 + KLF5, SOX2
985 LEMD3	0.706801908	0.006166656	0.020290909	18.31855904	5.567001364	Superficial	SOX2
986 IER3	0.705746954	0.005105016	0.029792864	91.0662064	71.33517237	Basal	SOX2
987 TMS9F3	0.705468786	0.000317696	0.007176147	75.11455963	44.74854753	Superficial	SOX2
988 TPST2	0.705368445	0.008904627	0.025990329	29.58094075	12.14561785	Superficial	SOX2
989 MAST4	0.70518553	0.015054848	0.038009884	60.88267442	33.03507244	Superficial	SOX2
990 PPP1R3D	0.705122846	0.001883197	0.010234018	23.83506292	9.135189693	Superficial	SOX2
991 SENP6	0.703318284	0.001526458	0.009387421	39.02975419	15.42974016	Superficial	SOX2
992 FAM83H	0.702860491	0.002315114	0.020052792	35.23918804	17.10164149	Basal	SOX2
993 HIP1R	0.702694987	0.001526458	0.016792744	11.04972321	4.742867003	Basal	SOX2
994 USP40	0.702333154	0.006166656	0.027303057	29.51910976	16.18770834	Suprabasal	SOX2
995 PPARA	0.702123681	0.000153669	0.010489143	30.47842317	16.4040569	Suprabasal	SOX2
996 NECTIN2	0.701897768	0.000250281	0.012455402	33.17085744	15.91725556	Basal	SOX2
997 XPO7	0.701674727	0.012681065	0.033478436	17.37725907	6.268661514	Superficial	SOX2
998 MUS81	0.701670445	0.008904627	0.025990329	10.32278069	4.818304548	Superficial	SOX2
999 YRDC	0.69921272	0.003462059	0.014108599	21.51501832	8.558992813	Superficial	SOX2
1000 BRD1	0.699059598	0.002315114	0.016074975	42.85777072	23.81696503	Suprabasal	SOX2
1001 SEMA4D	0.699049431	0.006166656	0.020290909	29.50955164	12.78839383	Superficial	SOX2
1002 TRUB2	0.698692417	0.017811616	0.043066688	28.49174933	11.26687257	Superficial	SOX2
1003 SEC63	0.698476952	0.012681065	0.033478436	36.80728048	14.45232384	Superficial	SOX2
1004 ATP5F1D	0.698358337	0.007423146	0.022959455	82.5012794	63.14211755	Superficial	SOX2
1005 AJUBA	0.697980755	0.015054848	0.048140298	24.81183555	12.03369669	Suprabasal	SOX2
1006 RWDD4	0.696875045	0.000401828	0.007176147	51.77094435	24.11983066	Superficial	SOX2
1007 NACC1	0.696463116	0.000506425	0.012898798	20.19965077	9.054914034	Basal	SOX2
1008 FLNA	0.695574276	0.001883197	0.018415354	68.91808084	43.431091	Basal	SOX2
1009 SHROOM3	0.695335913	0.007423146	0.036548425	9.574191785	3.812745015	Basal	SOX2 + KLF5, SOX2
1010 SLTM	0.695313462	0.000506425	0.007178523	63.31126801	31.76210791	Superficial	SOX2
1011 SCAPER	0.694072236	0.007423146	0.022959455	27.74667976	10.29388181	Superficial	SOX2
1012 MON1B	0.693303248	0.006166656	0.020290909	27.61617344	11.3071686	Superficial	SOX2
1013 NPC1	0.692962549	0.004211401	0.027185186	15.36013339	6.703777517	Basal	SOX2
1014 TAX1BP3	0.692447302	0.005105016	0.018023407	78.13399476	51.10089037	Superficial	SOX2
1015 SGM51	0.691297817	0.000635975	0.010733065	29.86271925	15.19705323	Suprabasal	SOX2 + KLF5
1016 SDC4	0.690969578	0.001883197	0.018415354	63.26780819	36.20162181	Basal	SOX2
1017 RING1	0.690902998	0.002836074	0.012662188	22.65387288	9.21827708	Superficial	SOX2
1018 SUSD4	0.688905232	0.006166656	0.020290909	48.73984961	21.34803969	Superficial	KLF5, SOX2
1019 POLR3D	0.687357327	0.003462059	0.014108599	20.8707821	7.43613414	Superficial	SOX2
1020 PSMB4	0.685299892	0.001526458	0.009387421	58.61299947	27.96010638	Superficial	SOX2

1021	HSPB1	0.684800626	0.012681065	0.033478436	98.45290194	93.43259814	Superficial	SOX2
1022	EGRF	0.684370469	0.010644787	0.029507311	41.9502083	15.63246924	Superficial	SOX2
1023	GTF3C1	0.683517925	0.004211401	0.016013117	60.9092851	33.78517881	Superficial	SOX2
1024	ADGRL2	0.683192397	0.008904627	0.040392504	10.7417921	4.139408272	Basal	SOX2
1025	HDAC5	0.682742832	0.015054848	0.038009884	13.30421243	4.220842783	Superficial	SOX2
1026	CEP55	0.682070144	0.001232925	0.015721789	33.14551567	19.35039483	Basal	SOX2
1027	ASH2L	0.681737225	0.001883197	0.010234018	23.09281134	8.409669845	Superficial	SOX2
1028	USP37	0.681305269	0.000992312	0.01142308	15.85613317	8.095477402	Suprabasal	SOX2
1029	COBL	0.681239795	0.015054848	0.038009884	31.42195234	12.03903453	Superficial	SOX2
1030	CDC42SE2	0.679917135	0.017811616	0.043066688	13.52002582	5.114852508	Superficial	SOX2
1031	LSM14B	0.678316094	0.012681065	0.033478436	21.66978744	8.709179062	Superficial	SOX2
1032	KLHL21	0.677983908	0.000401828	0.012455402	38.21633848	18.43710045	Basal	SOX2
1033	CASP7	0.677572835	0.004211401	0.021879278	32.86386227	16.70000183	Suprabasal	SOX2
1034	CCSAP	0.675473422	0.000250281	0.012455402	15.54470514	7.578541078	Basal	SOX2
1035	BRI3BP	0.675241931	0.017811616	0.043066688	27.70199565	10.31740369	Superficial	SOX2
1036	ELP3	0.674993585	0.007423146	0.022959455	12.44484451	4.645805987	Superficial	SOX2
1037	XPNPEP1	0.673875063	0.012681065	0.033478436	22.6153257	8.807703763	Superficial	SOX2
1038	TSPAN31	0.673329211	0.007423146	0.022959455	32.32370625	14.57475959	Superficial	SOX2
1039	GATAD1	0.672889383	9.30E-05	0.007176147	33.34992132	13.42729982	Superficial	SOX2
1040	SBNO1	0.67149385	0.001232925	0.008679903	39.14640306	15.55429681	Superficial	SOX2
1041	TTC23	0.670929937	0.004211401	0.016013117	11.357851	5.074134562	Superficial	SOX2
1042	TBRG1	0.670360458	9.30E-05	0.007176147	35.02731125	14.25893381	Superficial	SOX2
1043	MYO1D	0.670223138	0.001883197	0.010234018	48.98232321	23.24023778	Superficial	SOX2
1044	AGAP3	0.669761063	0.001232925	0.008679903	41.32602591	18.75107029	Superficial	SOX2
1045	DAXX	0.668789997	0.003462059	0.014108599	30.21577035	12.06403782	Superficial	SOX2
1046	YKT6	0.668035629	0.001526458	0.016792744	26.64004822	12.79324033	Basal	SOX2
1047	CDK17	0.668015169	0.003462059	0.019729589	16.41360549	8.270330179	Suprabasal	SOX2
1048	MAL2	0.666971971	0.000992312	0.014320968	67.6656544	46.069602	Basal	SOX2, SOX2 + KLF5
1049	LGALS8	0.666036557	0.005105016	0.018023407	31.07031235	15.28461671	Superficial	SOX2
1050	SLC44A2	0.665545253	0.007423146	0.022959455	61.18924802	32.86938981	Superficial	SOX2
1051	ZBTB17	0.665396487	0.000795824	0.007615337	15.53672061	6.058259512	Superficial	SOX2
1052	RABAC1	0.665008765	0.006166656	0.020290909	73.60564023	45.0711054	Superficial	SOX2
1053	TNFRSF10B	0.663928537	0.012681065	0.042921737	8.142564324	4.107895104	Suprabasal	SOX2
1054	PHF10	0.663225937	0.001232925	0.012246384	57.30647758	35.85848239	Suprabasal	SOX2
1055	CDC25A	0.662365282	0.003462059	0.024854712	11.09681846	5.301737689	Basal	SOX2
1056	JOSD2	0.661599184	0.001883197	0.010234018	65.70995211	35.94558676	Superficial	SOX2
1057	TAF6	0.661561026	0.001526458	0.009387421	16.25357545	6.858573155	Superficial	SOX2
1058	PSMC2	0.661474033	0.008904627	0.025990329	48.13192169	20.69490945	Superficial	SOX2
1059	INTS10	0.661149836	0.021001058	0.04834985	25.09640797	9.976829546	Superficial	SOX2
1060	NUP50	0.660882124	0.010644787	0.038255467	53.95810736	32.51693783	Suprabasal	SOX2
1061	B3GNT2	0.659308899	0.015054848	0.038009884	48.76608833	22.08346533	Superficial	SOX2 + KLF5, SOX2
1062	TEAD4	0.65922919	0.000795824	0.0136425	17.22245281	8.132829946	Basal	SOX2
1063	MIDN	0.658466962	0.010644787	0.029507311	76.35570508	51.43854435	Superficial	SOX2
1064	IL13RA1	0.658415331	0.000506425	0.012898798	29.98096386	15.03877761	Basal	SOX2
1065	PRR14L	0.658376186	0.000506425	0.007178523	42.93223762	17.25211076	Superficial	SOX2
1066	AARS2	0.658110216	0.010644787	0.029507311	10.38037111	3.661738738	Superficial	SOX2
1067	LRP6	0.656261512	0.001883197	0.014679007	10.47197382	5.225409838	Suprabasal	SOX2
1068	SLC2A1	0.655554397	0.007423146	0.022959455	54.5759334	27.05487701	Superficial	SOX2
1069	RBMXL1	0.655488128	0.021001058	0.04834985	21.07186616	8.056498063	Superficial	SOX2
1070	ARHGFE3	0.655422067	0.005105016	0.018023407	22.4596444	8.620999995	Superficial	SOX2
1071	TPP2	0.654015025	0.004211401	0.016013117	29.24394806	12.0423832	Superficial	SOX2
1072	AKAP11	0.653966626	0.017811616	0.043066688	21.36105886	7.919796639	Superficial	SOX2
1073	MYO6	0.653027843	0.001526458	0.016792744	43.91930761	23.10721262	Basal	SOX2
1074	PHF6	0.652696533	0.005105016	0.018023407	25.04223587	10.11666217	Superficial	SOX2
1075	MAFK	0.650414578	0.010644787	0.044687249	14.57536945	6.225943242	Basal	SOX2
1076	LLGL2	0.649878814	0.000401828	0.012455402	35.39044093	19.03596924	Basal	SOX2
1077	ZNF146	0.649786015	0.021001058	0.04834985	16.61304701	5.79814609	Superficial	SOX2
1078	SLC9A3R1	0.649284456	0.000317696	0.012455402	70.56397011	47.30720979	Basal	SOX2
1079	COPB1	0.649171708	0.000635975	0.007274975	59.26939583	29.49107963	Superficial	SOX2
1080	CXC5	0.649012341	0.000635975	0.012925379	21.53093653	10.79801587	Basal	SOX2
1081	NFIA	0.64874555	0.002836074	0.012662188	53.7574233	26.49796931	Superficial	SOX2
1082	SNAI2	0.648425085	0.015054848	0.048140298	12.43176037	6.318331755	Suprabasal	SOX2
1083	PIP4K2C	0.648192568	0.000401828	0.012455402	18.10247521	8.037186698	Basal	SOX2
1084	ILVBL	0.648089774	0.021001058	0.04834985	48.24008432	20.18812239	Superficial	SOX2 + KLF5, SOX2
1085	PRKD2	0.647914132	0.000992312	0.014320968	23.08315078	10.53299073	Basal	SOX2
1086	GRHL1	0.647828984	0.002315114	0.020052792	17.11618921	8.766363269	Basal	SOX2
1087	CTR9	0.647808145	0.001883197	0.010234018	46.14068978	21.288081	Superficial	SOX2
1088	MRPS5	0.647420793	0.000795824	0.007615337	49.35732999	23.18354163	Superficial	SOX2
1089	GCH1	0.647126938	0.002836074	0.022562695	14.58129743	6.129531195	Basal	SOX2
1090	DNAJC2	0.646987291	0.021001058	0.04834985	25.67749226	9.788446426	Superficial	SOX2
1091	CTRC2	0.646003988	0.004211401	0.027185186	14.0923151	5.928055588	Basal	SOX2
1092	BCL7C	0.64482131	0.007423146	0.022959455	43.10442673	18.3022768	Superficial	SOX2
1093	KLF16	0.644492518	0.010644787	0.044687249	26.12696008	12.3925702	Basal	SOX2

1094 RWDD1	0.644476403	0.000153669	0.007176147	73.7233654	44.41614732	Superficial	SOX2
1095 REXO1	0.644393123	0.000506425	0.010489143	21.29491628	11.63250148	Suprabasal	SOX2
1096 ALKBH6	0.643264176	0.015054848	0.038009884	8.987903727	4.148990879	Superficial	SOX2
1097 TP53BP2	0.642931517	0.004211401	0.027185186	27.76129219	12.84269071	Basal	SOX2
1098 ETV6	0.642798297	0.001883197	0.014679007	37.04574122	20.39227825	Suprabasal	SOX2
1099 RPAIN	0.640544324	0.002836074	0.012662188	38.56017222	15.87384888	Superficial	SOX2
1100 NPLOC4	0.638617174	0.000635975	0.012925379	29.33666899	14.58457346	Basal	SOX2
1101 CLN6	0.636965297	0.010644787	0.038255467	17.08599633	8.317263013	Suprabasal	SOX2
1102 GDAP1	0.635852454	0.007423146	0.030449933	10.90194566	5.623306424	Suprabasal	SOX2
1103 SEC23IP	0.634659651	0.007423146	0.022959455	22.1392895	8.593233906	Superficial	SOX2
1104 CDR2	0.634532008	0.001883197	0.018415354	10.22859731	4.830933407	Basal	SOX2
1105 B3GNT5	0.634212695	0.010644787	0.029507311	51.9158176	27.30802555	Superficial	SOX2
1106 SPPL2A	0.633852245	0.004211401	0.016013117	43.33985558	18.32567339	Superficial	SOX2
1107 GSK3B	0.633816567	0.000506425	0.007178523	40.39832657	17.8837765	Superficial	SOX2
1108 PUS7L	0.633488025	0.002836074	0.012662188	29.01936478	12.46560073	Superficial	SOX2
1109 LINS1	0.631907647	0.004211401	0.016013117	16.64845294	5.985100765	Superficial	SOX2
1110 APPL2	0.631652725	0.008904627	0.034252903	42.9805544	24.81626319	Suprabasal	SOX2
1111 TACSTD2	0.631602355	0.000795824	0.0136425	98.55844464	89.75262691	Basal	SOX2, KLF5
1112 RALB	0.631027731	0.001526458	0.009387421	66.92308937	38.04879059	Superficial	SOX2
1113 NUS1	0.630748992	0.001526458	0.009387421	26.18152527	10.93146073	Superficial	SOX2
1114 PLEKHG6	0.630732547	0.010644787	0.044687249	10.86442646	4.748218178	Basal	SOX2
1115 CTDP1	0.630691088	0.001883197	0.018415354	12.37768396	5.680913332	Basal	SOX2
1116 HECF1	0.62946212	0.010644787	0.038255467	25.31814262	13.62847611	Suprabasal	SOX2
1117 TPBG	0.628615415	0.008904627	0.025990329	12.37015338	4.658716986	Superficial	SOX2
1118 PSMD12	0.628161006	0.001883197	0.010234018	60.76021059	32.83275084	Superficial	SOX2
1119 VPS53	0.627854593	0.005105016	0.018023407	31.16917285	11.9110685	Superficial	SOX2
1120 PHRF1	0.627348754	0.000635975	0.010733065	28.08723807	15.10110419	Suprabasal	SOX2
1121 WDFY2	0.627045805	0.001232925	0.008679903	37.26846613	15.89920156	Superficial	SOX2
1122 DDX54	0.626076966	0.015054848	0.038009884	27.37361913	9.95378725	Superficial	SOX2
1123 GNA15	0.625857909	0.001526458	0.016792744	34.12656535	17.38627815	Basal	SOX2
1124 PACS1	0.624993882	0.000635975	0.012925379	32.06671086	15.46331705	Basal	SOX2 + KLF5
1125 KIFAP3	0.624614681	0.010644787	0.029507311	24.60834527	9.675495534	Superficial	SOX2
1126 TMBIM1	0.624550933	0.001883197	0.018415354	47.7802457	26.01769816	Basal	SOX2
1127 RPAP3	0.62447027	0.021001058	0.04834985	22.6548561	8.653170341	Superficial	SOX2
1128 PKIA	0.624035874	0.003462059	0.019729589	17.9108499	9.009216803	Suprabasal	SOX2
1129 TTL4	0.622221452	0.010644787	0.038255467	6.490223942	3.11242573	Suprabasal	SOX2
1130 TMEM51	0.621004095	0.000506425	0.012898798	13.93565344	6.630753718	Basal	SOX2
1131 CAPN15	0.620456443	0.008904627	0.040392504	15.5871956	6.756952252	Basal	SOX2
1132 TTC39C	0.619828384	0.017811616	0.043066688	15.32945915	7.118245549	Superficial	SOX2 + KLF5
1133 LMNB1	0.619073998	0.001526458	0.016792744	46.9676545	27.82506765	Basal	SOX2
1134 NDST1	0.618998721	0.001232925	0.015721789	16.85826686	7.854229583	Basal	SOX2
1135 HS6ST1	0.618991894	0.002315114	0.016074975	26.59241943	14.78961537	Suprabasal	SOX2 + KLF5, SOX2
1136 NSD2	0.618825078	0.002836074	0.022562695	34.05755097	18.57604866	Basal	SOX2
1137 NDUFA4	0.617621009	0.007423146	0.022959455	87.20515658	75.61760295	Superficial	SOX2 + KLF5
1138 TTL	0.616625565	0.015054848	0.038009884	9.39597726	3.866933503	Superficial	SOX2
1139 SCAF1	0.616556744	0.000401828	0.012455402	26.69961579	12.46298288	Basal	SOX2
1140 LMNA	0.616183225	0.002315114	0.011381143	80.38720529	57.80369745	Superficial	SOX2, SOX2 + KLF5
1141 PARL	0.615975765	0.006166656	0.020290909	34.42614282	14.25106949	Superficial	SOX2
1142 CBX4	0.614355706	0.006166656	0.032981404	24.91951176	12.4972595	Basal	SOX2
1143 BRWD3	0.613658138	0.008904627	0.025990329	34.96651289	13.44089262	Superficial	SOX2
1144 RIN2	0.613619312	0.003462059	0.019729589	48.89795167	27.70980442	Suprabasal	SOX2 + KLF5
1145 AXIN1	0.613476955	9.30E-05	0.010489143	14.62137054	7.716630072	Suprabasal	SOX2
1146 JUN	0.612848095	0.010644787	0.029507311	77.53502385	50.74961947	Superficial	SOX2, SOX2 + KLF5
1147 MTOR	0.612490458	0.000119764	0.012455402	22.77006362	11.23841573	Basal	SOX2
1148 PTK7	0.612100471	0.007423146	0.030449933	17.046313	8.949674957	Suprabasal	SOX2
1149 HNRNPU	0.611217861	0.005105016	0.018023407	71.0978732	39.92723052	Superficial	SOX2
1150 ZBTB7A	0.611118396	0.000635975	0.012925379	72.61060878	45.60543903	Basal	SOX2
1151 LMNB2	0.609316573	0.001526458	0.016792744	41.27761467	23.83188838	Basal	SOX2
1152 STAM	0.608060929	0.015054848	0.038009884	33.32040064	13.39469361	Superficial	SOX2
1153 PSPC1	0.607965342	0.006166656	0.020290909	26.2929197	9.608926425	Superficial	SOX2
1154 UBA2	0.607402761	0.004211401	0.016013117	38.70500567	16.10997115	Superficial	SOX2
1155 REEP5	0.606826435	0.001232925	0.008679903	66.34652048	37.75642278	Superficial	SOX2
1156 ST3GAL1	0.606535423	0.017811616	0.043066688	24.29650378	9.987123775	Superficial	SOX2
1157 USP47	0.60533587	0.002836074	0.012662188	45.99539819	18.77180015	Superficial	SOX2
1158 DICER1	0.605163275	0.007423146	0.022959455	54.5955466	26.41130541	Superficial	SOX2
1159 STIL	0.605032204	0.012681065	0.049425568	17.41909562	9.114647452	Basal	SOX2
1160 MEX3C	0.604743821	0.002836074	0.0176927	19.5438782	10.34685587	Suprabasal	SOX2
1161 EBNA1BP2	0.604051292	0.008904627	0.025990329	40.02189028	17.49491332	Superficial	SOX2
1162 PKMYT1	0.603866657	0.005105016	0.029792864	26.85050168	15.06546933	Basal	SOX2
1163 DNTTIP2	0.60369074	0.007423146	0.022959455	38.13670698	15.82482952	Superficial	SOX2
1164 RABEP1	0.603633062	0.002315114	0.011381143	24.08573739	9.127485293	Superficial	SOX2
1165 PSMB2	0.603597338	0.007423146	0.022959455	59.36204562	29.71514402	Superficial	SOX2
1166 ATP11A	0.602712245	0.007423146	0.036548425	16.71750869	7.367259194	Basal	SOX2

1167 HSD17B1	0.602155405	0.004211401	0.016013117	24.56695092	11.3566743	Superficial	SOX2
1168 DDX1	0.601574847	0.008904627	0.025990329	44.5230924	18.97647767	Superficial	SOX2
1169 CCDC43	0.601502898	0.012681065	0.033478436	28.05317601	11.88733009	Superficial	SOX2
1170 F11R	0.601020271	0.001526458	0.016792744	63.0512991	36.17533407	Basal	SOX2
1171 RRM2	0.600475257	0.010644787	0.044687249	39.28345524	25.80666442	Basal	SOX2
1172 ZNF367	0.600262693	0.000317696	0.012455402	15.13660037	7.800981888	Basal	SOX2
1173 IMP3	0.60004906	0.006166656	0.020290909	64.98953505	33.25115252	Superficial	SOX2
1174 FUT2	0.599158969	0.010644787	0.044687249	11.62944402	5.532194569	Basal	SOX2
1175 DAAM1	0.59915439	0.000992312	0.008042817	76.38738117	49.14984258	Superficial	SOX2
1176 SYPL1	0.598514626	0.008904627	0.025990329	76.69146901	50.8731247	Superficial	SOX2
1177 PDIA6	0.598308542	0.021001058	0.04834985	67.6873498	34.83698894	Superficial	SOX2
1178 FRMD8	0.598257819	0.003462059	0.024854712	21.81927065	10.05410138	Basal	SOX2
1179 ZNF286A	0.598000696	0.002315114	0.016074975	10.4340277	5.156451451	Suprabasal	SOX2
1180 DDX5	0.596734835	0.002315114	0.011381143	80.40466764	53.89941309	Superficial	SOX2
1181 BRD3	0.596508411	0.001883197	0.014679007	26.70160161	14.51964849	Suprabasal	SOX2
1182 BACE2	0.594567261	0.005105016	0.029792864	44.63772598	24.73032218	Basal	SOX2 + KLF5
1183 TNIP1	0.594212161	0.000635975	0.012925379	39.40134427	20.60852556	Basal	SOX2 + KLF5
1184 PALB2	0.593794395	0.002836074	0.0176927	16.12236284	8.209849083	Suprabasal	SOX2
1185 LHL2	0.592070357	0.000795824	0.0136425	12.37145745	5.614726525	Basal	SOX2
1186 KMT5A	0.59128364	0.006166656	0.020290909	65.0270615	35.7780276	Superficial	SOX2
1187 FBXO45	0.588969119	0.017811616	0.043066688	19.16361532	8.241544775	Superficial	SOX2
1188 S100PBP	0.588772465	0.003462059	0.019729589	15.51095779	7.592054591	Suprabasal	SOX2
1189 DDB1	0.588606432	0.021001058	0.04834985	36.33819273	15.45625643	Superficial	SOX2
1190 CCDC25	0.587148492	0.021001058	0.04834985	47.68870804	21.05364584	Superficial	SOX2
1191 DGKZ	0.587067796	0.002836074	0.0176927	30.55586994	17.20076353	Suprabasal	SOX2
1192 KLF6	0.586976239	0.001526458	0.009387421	83.35824169	60.69685533	Superficial	SOX2
1193 CEPBD	0.585393294	0.004211401	0.021879278	85.52303744	65.28861982	Suprabasal	SOX2
1194 ANKRD9	0.584905296	0.005105016	0.029792864	35.83613769	18.98583165	Basal	SOX2
1195 SPAST	0.584604471	0.017811616	0.043066688	24.12051452	10.02080618	Superficial	SOX2
1196 NT5C3B	0.584186592	0.021001058	0.04834985	18.38476757	7.533026674	Superficial	SOX2
1197 CDC123	0.583905789	0.010644787	0.029507311	42.59845803	18.30831463	Superficial	SOX2
1198 ADAM10	0.583902874	0.012681065	0.049425568	46.92135914	25.26441665	Basal	SOX2
1199 TBCB	0.583533491	0.005105016	0.018023407	57.99479646	30.40976353	Superficial	SOX2
1200 TTC9	0.583380961	0.012681065	0.049425568	20.57073371	10.38099781	Basal	SOX2
1201 HMCES	0.583210817	0.002836074	0.012662188	35.52203737	16.2197152	Superficial	SOX2
1202 PEX11B	0.583019182	0.015054848	0.038009884	23.01143191	9.454768488	Superficial	SOX2
1203 RABGAP1	0.582347637	0.012681065	0.033478436	52.92135628	25.18508645	Superficial	SOX2
1204 PAIP2B	0.580739387	0.021001058	0.04834985	44.41576247	20.3766825	Superficial	SOX2 + KLF5, SOX2
1205 CHD2	0.580357251	0.000795824	0.010838271	54.26481291	33.87147191	Suprabasal	SOX2
1206 MYO1C	0.579266015	0.004211401	0.027185186	50.3517943	28.31410955	Basal	SOX2
1207 ACOT7	0.579261072	0.017811616	0.043066688	21.06320546	8.444328094	Superficial	SOX2
1208 ORC1	0.578777928	0.006166656	0.032981404	13.08983666	6.574679554	Basal	SOX2
1209 GNL3L	0.577846754	0.012681065	0.042921737	27.7323956	15.59629515	Suprabasal	SOX2
1210 MICALL2	0.577590978	0.000795824	0.0136425	24.54449984	12.34438818	Basal	SOX2
1211 CDC5L	0.577367904	0.010644787	0.029507311	46.85050398	20.28831503	Superficial	SOX2
1212 ZNF503	0.575857212	0.010644787	0.029507311	27.20047124	12.22366228	Superficial	SOX2
1213 MYOSB	0.575610396	0.001883197	0.018415354	12.41517352	5.794956349	Basal	SOX2
1214 SHPK	0.574491073	0.008904627	0.025990329	9.471988201	3.753573693	Superficial	SOX2
1215 BW2	0.57447235	0.017811616	0.043066688	40.84455152	16.52980784	Superficial	SOX2
1216 SPPL3	0.573634654	0.003462059	0.014108599	47.28374064	22.03450031	Superficial	SOX2 + KLF5, SOX2
1217 CUL3	0.573016092	0.000401828	0.012455402	59.14956542	35.1104698	Basal	SOX2
1218 RTN4R	0.573006335	0.010644787	0.044687249	10.07206455	4.963485412	Basal	SOX2
1219 KATNA1	0.572676717	0.000250281	0.007176147	25.18839815	11.23271671	Superficial	SOX2
1220 CHFR	0.572376262	0.005105016	0.029792864	15.92621312	7.523139889	Basal	SOX2
1221 ABCB10	0.571942293	0.004211401	0.027185186	15.32551643	7.592237018	Basal	SOX2
1222 TSTD2	0.571866552	0.017811616	0.043066688	10.47451837	4.636528888	Superficial	SOX2
1223 STK11	0.570912857	0.004211401	0.027185186	39.54364401	21.58271748	Basal	SOX2
1224 CNOT6	0.570895163	0.010644787	0.029507311	27.29005571	10.21974886	Superficial	SOX2
1225 SMARCC1	0.570863674	0.010644787	0.029507311	41.37989477	19.06307239	Superficial	SOX2
1226 STRBP	0.570780625	0.002315114	0.011381143	59.67198685	30.93992246	Superficial	SOX2
1227 ATXN7L3	0.569461391	0.000635975	0.012925379	22.89580349	10.95539312	Basal	SOX2
1228 MAP3K1	0.569441306	0.015054848	0.038009884	45.13891115	19.58848491	Superficial	SOX2
1229 KLF10	0.568633025	0.008904627	0.034252903	36.85873202	21.70693085	Suprabasal	SOX2
1230 MYLIP	0.568414442	0.001232925	0.012246384	41.7823653	24.48742287	Suprabasal	SOX2
1231 PDXK	0.567977931	0.000992312	0.014320968	57.7535651	33.79410889	Basal	SOX2
1232 ZMYM1	0.56738358	0.000506425	0.010489143	25.27509558	13.49142163	Suprabasal	SOX2
1233 UBLCP1	0.566918222	0.004211401	0.016013117	39.65019314	17.19327528	Superficial	SOX2
1234 MYBBP1A	0.56688332	0.003462059	0.024854712	22.06185652	10.56027538	Basal	SOX2
1235 FBRSL1	0.566139832	0.003462059	0.024854712	23.29403516	10.99696911	Basal	SOX2
1236 OPA1	0.565910951	0.015054848	0.038009884	40.1444524	16.26258589	Superficial	SOX2
1237 MCM4	0.565800435	0.003462059	0.024854712	57.40336068	35.47954179	Basal	SOX2
1238 PLAGL2	0.565398167	0.008904627	0.040392504	19.64283433	9.125336889	Basal	SOX2
1239 TNFAIP8L1	0.564537093	0.007423146	0.036548425	18.10017498	10.5457503	Basal	SOX2

1240 LARS2	0.563555094	0.006166656	0.032981404	12.02626978	5.845680963	Basal	SOX2
1241 ALYREF	0.563301502	0.021001058	0.04834985	41.48176973	18.83980691	Superficial	SOX2
1242 LRP10	0.563132611	0.000153669	0.012455402	60.99423501	37.67474411	Basal	SOX2
1243 SLC12A2	0.562474231	0.003462059	0.019729589	10.77812199	5.408597712	Suprabasal	SOX2
1244 DDR1	0.562373943	0.000795824	0.010838271	68.0993919	45.28934753	Suprabasal	SOX2
1245 CNOT3	0.561689481	0.000992312	0.01142308	28.71801011	17.27564704	Suprabasal	SOX2
1246 NUP188	0.561464204	0.002836074	0.022562695	30.2577921	15.1332891	Basal	SOX2
1247 RGP1	0.560435385	0.003462059	0.019729589	13.42346619	7.532436965	Suprabasal	SOX2
1248 ZNF768	0.559358288	0.001883197	0.014679007	12.46714038	6.490597492	Suprabasal	SOX2
1249 INTS1	0.55918513	0.006166656	0.032981404	30.31020082	16.19867459	Basal	SOX2
1250 BAP1	0.558420415	0.015054848	0.048140298	30.97902085	18.53894319	Suprabasal	SOX2
1251 USP25	0.557295031	0.000196466	0.012455402	29.0726618	14.66598057	Basal	SOX2
1252 GUF1	0.5567566	0.007423146	0.022959455	23.83669527	8.827857569	Superficial	SOX2
1253 FAF2	0.556593152	0.001526458	0.009387421	36.29272897	14.54763219	Superficial	SOX2
1254 EGF6	0.556147345	0.006166656	0.027303057	33.72800327	18.89160666	Suprabasal	SOX2
1255 ATP13A2	0.555814137	0.000401828	0.012455402	17.53077521	9.000378518	Basal	SOX2
1256 RAB27B	0.555355604	0.002315114	0.011381143	59.79240219	31.73912783	Superficial	SOX2, SOX2 + KLF5
1257 XPO5	0.554728734	0.015054848	0.038009884	12.41895402	4.453709417	Superficial	SOX2
1258 TARBP1	0.553824775	0.003462059	0.019729589	19.92559264	11.6501114	Suprabasal	SOX2
1259 RRP12	0.553439503	0.001232925	0.015721789	12.13356295	5.922857206	Basal	SOX2 + KLF5, SOX2
1260 MCM2	0.553145931	0.008904627	0.040392504	26.87734726	14.5281405	Basal	SOX2
1261 TES	0.551859738	0.006166656	0.020290909	40.8340672	18.31834669	Superficial	SOX2
1262 SLC25A10	0.551805139	0.010644787	0.044687249	38.67628151	21.72036806	Basal	SOX2 + KLF5, SOX2
1263 TMEM33	0.550352753	0.003462059	0.014108599	43.15784579	21.71450811	Superficial	SOX2
1264 ECD	0.549038951	0.017811616	0.043066688	19.31874557	9.430919656	Superficial	SOX2
1265 TBCD	0.548662953	0.003462059	0.024854712	27.13218841	14.47561619	Basal	SOX2
1266 JUP	0.54864085	0.000795824	0.0136425	86.39745245	66.15826609	Basal	SOX2, SOX2 + KLF5
1267 FAM102A	0.547362144	0.000635975	0.012925379	31.91566041	16.70012751	Basal	SOX2
1268 TRIP12	0.545203053	0.007423146	0.036548425	49.7497347	27.85387132	Basal	SOX2
1269 ATP6V0A2	0.544362438	0.015054848	0.048140298	13.39822462	7.244591033	Suprabasal	SOX2
1270 SYTL1	0.544315471	0.021001058	0.04834985	73.97048156	45.83813186	Superficial	SOX2
1271 HNRNPM	0.543720788	0.012681065	0.033478436	63.11040245	32.54516521	Superficial	SOX2
1272 ELF3	0.54136574	0.012681065	0.049425568	56.54352937	38.3781648	Basal	SOX2, KLF5, SOX2 + KLF5
1273 ERBB3	0.541330501	0.000795824	0.0136425	42.43033253	24.05521405	Basal	SOX2
1274 KLC2	0.54054988	0.004211401	0.021879278	11.36024429	6.507917261	Suprabasal	SOX2
1275 CBFβ	0.539190443	0.001526458	0.016792744	30.44720682	14.98475264	Basal	SOX2
1276 MICALL1	0.53903016	0.001526458	0.016792744	26.62948582	13.60714347	Basal	SOX2
1277 ATP13A3	0.538620588	0.006166656	0.032981404	33.65402979	16.85817377	Basal	SOX2
1278 BMP2K	0.5381026	0.010644787	0.029507311	30.86873589	12.87664539	Superficial	SOX2
1279 IRAK1	0.538095381	0.002315114	0.020052792	38.96317903	21.4747565	Basal	SOX2
1280 TM7SF3	0.537123275	0.003462059	0.014108599	39.04521885	18.4880171	Superficial	SOX2
1281 PSMB3	0.535779065	0.002315114	0.011381143	73.69962452	44.93950696	Superficial	SOX2
1282 CRYBG2	0.535424694	0.003462059	0.024854712	13.47297953	6.898201952	Basal	KLF5
1283 SOD2	0.535167327	0.008904627	0.040392504	74.53929203	49.21507383	Basal	SOX2
1284 SNN	0.534874669	0.000401828	0.012455402	12.75407637	6.481786994	Basal	SOX2
1285 CWC27	0.534707173	0.004211401	0.016013117	26.12936858	11.5878165	Superficial	SOX2
1286 ARSJ	0.533709462	0.012681065	0.042921737	7.698190606	3.763901651	Suprabasal	SOX2
1287 NUDT3	0.533337388	0.012681065	0.033478436	25.04808303	9.578946621	Superficial	SOX2
1288 ANKRD52	0.53277344	0.004211401	0.021879278	10.11138008	5.40810124	Suprabasal	SOX2
1289 S100A11	0.532661764	0.004211401	0.027185186	99.86119542	98.82193269	Basal	SOX2
1290 CNOT11	0.5325964	0.002315114	0.011381143	38.1402724	17.44697014	Superficial	SOX2
1291 CUL2	0.532346494	0.012681065	0.033478436	31.02835804	13.27069577	Superficial	SOX2
1292 EIF2S1	0.532152229	0.006166656	0.020290909	47.45304071	21.71808627	Superficial	SOX2
1293 ERCC6	0.531874264	0.002836074	0.0176927	24.24188941	14.03843851	Suprabasal	SOX2
1294 NKAP	0.531109713	0.002315114	0.011381143	36.56583353	15.56036051	Superficial	SOX2
1295 ITPKB	0.530289527	0.004211401	0.021879278	8.021108444	4.822059891	Suprabasal	SOX2
1296 TGOLN2	0.529440537	0.006166656	0.020290909	45.81425303	23.33559263	Superficial	SOX2
1297 TRIP10	0.527179997	0.000795824	0.0136425	26.74185502	13.52408073	Basal	SOX2 + KLF5
1298 WAPL	0.527163417	0.017811616	0.043066688	45.72441968	20.94921423	Superficial	SOX2
1299 ANLN	0.526520833	0.008904627	0.040392504	36.530004	22.85027331	Basal	SOX2
1300 ANXA1	0.526354665	0.010644787	0.044687249	99.04728296	97.15687469	Basal	SOX2 + KLF5, SOX2
1301 CTNNA1	0.525896828	0.002315114	0.020052792	77.18314236	53.75795767	Basal	SOX2
1302 NXN	0.52540313	0.012681065	0.042921737	43.88886404	24.88549412	Suprabasal	SOX2
1303 KLHL8	0.523147525	0.010644787	0.038255467	15.65540226	8.980403041	Suprabasal	SOX2 + KLF5
1304 JAG1	0.522042648	0.002836074	0.022562695	60.931408	37.7428955	Basal	SOX2, SOX2 + KLF5
1305 CHD7	0.521984316	0.007423146	0.022959455	33.38086425	14.66102246	Superficial	SOX2
1306 RAD23A	0.521616714	0.010644787	0.029507311	49.6591592	21.30608421	Superficial	SOX2
1307 ACBD3	0.521467682	0.001526458	0.013290882	80.56801461	59.80486031	Suprabasal	SOX2
1308 NUMA1	0.521181726	0.005105016	0.029792864	53.1244713	30.20781378	Basal	SOX2
1309 ATRIP	0.520900406	0.002315114	0.020052792	14.17842467	7.484290553	Basal	SOX2
1310 NFATC2IP	0.52049701	0.012681065	0.033478436	26.51865935	10.89065796	Superficial	SOX2
1311 GRSF1	0.519672061	0.000506425	0.007178523	47.21126079	22.01541314	Superficial	SOX2
1312 ARID2	0.518042147	0.015054848	0.038009884	26.3492912	11.03379219	Superficial	SOX2

1313	CUEDC1	0.517765462	0.002315114	0.020052792	16.95961156	8.258408028	Basal	SOX2
1314	KLF3	0.517679593	0.007423146	0.030449933	83.92570547	65.51864617	Suprabasal	SOX2 + KLF5
1315	MTRF1L	0.51714331	0.010644787	0.029507311	27.58706894	13.04922908	Superficial	SOX2
1316	ELP4	0.516927801	0.010644787	0.029507311	14.78220504	6.588135394	Superficial	SOX2
1317	CDC42EP5	0.515557091	0.008904627	0.040392504	51.64386602	28.76256482	Basal	SOX2
1318	RFWWD3	0.515309713	0.004211401	0.021879278	11.70454255	6.736320405	Suprabasal	SOX2
1319	AQR	0.514022203	0.015054848	0.038009884	31.19422048	12.82419177	Superficial	SOX2
1320	SDE2	0.512741406	0.006166656	0.027303057	23.7675373	12.72793341	Suprabasal	SOX2
1321	PNKP	0.511632792	0.008904627	0.025990329	23.42211961	10.10092883	Superficial	SOX2
1322	UPF1	0.511286401	0.003462059	0.024854712	37.07981162	19.42343512	Basal	SOX2
1323	PTK6	0.510135249	0.012681065	0.049425568	19.27144799	9.872191405	Basal	SOX2
1324	USP6NL	0.509593969	0.008904627	0.040392504	17.68897498	8.50089317	Basal	SOX2
1325	MP2L1	0.508728407	0.008904627	0.025990329	43.3369847	22.76864965	Superficial	SOX2 + KLF5, SOX2
1326	BUB3	0.508714222	0.007423146	0.022959455	45.69659583	21.03149772	Superficial	SOX2
1327	PURA	0.507065933	0.000401828	0.007176147	44.46355188	21.71574662	Superficial	SOX2
1328	FRS2	0.506244634	0.021001058	0.04834985	18.7799487	7.366259053	Superficial	SOX2
1329	FRMD6	0.505534122	0.002315114	0.011381143	72.31695849	41.61355295	Superficial	SOX2
1330	CCND1	0.505169811	0.021001058	0.04834985	55.07589057	29.22761701	Superficial	SOX2
1331	GNB2	0.50420714	0.005105016	0.029792864	78.3157134	55.61594237	Basal	SOX2
1332	SH2B1	0.503568083	0.015054848	0.048140298	17.07369447	9.923961829	Suprabasal	SOX2
1333	ASPH	0.501403718	0.004211401	0.021879278	70.82171402	48.84771551	Suprabasal	SOX2
1334	PPP6R1	0.5009654	0.001232925	0.015721789	29.47347937	15.12279427	Basal	SOX2
1335	NAPG	0.499670728	0.003462059	0.014108599	57.91755322	29.49803192	Superficial	SOX2
1336	MNAT1	0.499035232	0.001526458	0.009387421	33.82642552	15.08818925	Superficial	SOX2
1337	HNRNPA2B1	0.497371459	0.015054848	0.038009884	74.51684124	46.06121545	Superficial	SOX2
1338	CEP44	0.497034882	0.021001058	0.04834985	13.30912046	5.031562544	Superficial	SOX2
1339	FAM111A	0.496459518	0.005105016	0.024262694	17.72632172	10.20689672	Suprabasal	SOX2
1340	GUCD1	0.49643982	0.001883197	0.018415354	31.74971695	16.31569375	Basal	SOX2
1341	CLUAP1	0.496336728	0.008904627	0.034252903	21.28641366	11.54826649	Suprabasal	SOX2
1342	KCTD3	0.494652574	0.000992312	0.014320968	39.57678112	21.59878832	Basal	SOX2
1343	SAP30	0.493979071	0.007423146	0.036548425	45.00566094	26.41014799	Basal	SOX2
1344	HNRNPR	0.491063799	0.017811616	0.043066688	47.55427304	22.21570082	Superficial	SOX2
1345	NRDC	0.490991214	0.021001058	0.04834985	55.72038228	30.60547076	Superficial	SOX2
1346	TRIM33	0.489450207	0.017811616	0.043066688	39.7606089	17.51831737	Superficial	SOX2 + KLF5, SOX2
1347	SEC61A1	0.488628097	0.015054848	0.038009884	45.15063283	22.414793	Superficial	SOX2
1348	WDHD1	0.488116912	0.001526458	0.016792744	24.01800884	13.26388537	Basal	SOX2
1349	SPAG9	0.48675745	0.000795824	0.0136425	51.34410616	30.18405598	Basal	SOX2
1350	SEC14L2	0.486212927	0.001883197	0.018415354	12.00086909	5.227538256	Basal	SOX2
1351	MRPS31	0.486202719	0.017811616	0.043066688	38.70154943	17.3136704	Superficial	SOX2
1352	BDKRB2	0.485062961	0.006166656	0.032981404	17.36183784	8.801648887	Basal	SOX2
1353	SRPK2	0.482498645	0.003462059	0.014108599	44.41141015	20.7636501	Superficial	SOX2
1354	PSMA1	0.482165624	0.008904627	0.025990329	65.97719582	36.27990299	Superficial	SOX2
1355	TPGS1	0.481782703	0.017811616	0.043066688	41.59724017	19.97718233	Superficial	SOX2
1356	CACTIN	0.481764839	0.010644787	0.038255467	9.797951605	5.480509165	Suprabasal	SOX2
1357	TTTN	0.481760114	0.002315114	0.020052792	68.34703483	44.04458385	Basal	SOX2
1358	ZDHHCS	0.481638674	0.002836074	0.022562695	45.41187793	26.26191115	Basal	SOX2
1359	SH3GL1	0.481509796	0.000317696	0.012455402	40.9722635	22.65329046	Basal	SOX2
1360	FMR1	0.481142069	0.005105016	0.024262694	43.2968248	26.86475631	Suprabasal	SOX2
1361	NADK	0.480684707	0.010644787	0.044687249	20.85555924	10.89633778	Basal	SOX2
1362	RALY	0.479004374	0.017811616	0.043066688	71.36994745	45.26189074	Superficial	SOX2
1363	SPECC1	0.478790004	0.010644787	0.044687249	16.64152372	8.452011622	Basal	SOX2
1364	DNAJB14	0.47843695	0.007423146	0.022959455	35.23391723	15.120162	Superficial	SOX2
1365	TRIM16	0.475968725	0.006166656	0.032981404	45.63964355	28.50255283	Basal	SOX2
1366	DVL3	0.475846201	0.000250281	0.010489143	34.21125811	21.10756577	Suprabasal	SOX2
1367	ARMC1	0.474807714	0.008904627	0.025990329	27.30242392	11.60866805	Superficial	SOX2
1368	R3HDM4	0.474476837	0.000992312	0.014320968	34.1889281	18.11556037	Basal	SOX2
1369	TWF1	0.473939191	0.001883197	0.018415354	57.49152249	35.50918611	Basal	SOX2
1370	DENND2D	0.47280977	0.000317696	0.012455402	36.61631128	20.5686023	Basal	SOX2
1371	AHNAK	0.472580773	0.000992312	0.014320968	94.70051847	83.04168059	Basal	SOX2, SOX2 + KLF5
1372	SIK3	0.471835245	0.003462059	0.024854712	16.02132565	7.698144507	Basal	SOX2
1373	EHD1	0.471129417	0.006166656	0.032981404	18.87141849	9.712745193	Basal	SOX2
1374	SCO1	0.469811368	0.002315114	0.011381143	27.81739673	11.84774497	Superficial	SOX2
1375	RCN1	0.469437498	0.007423146	0.030449933	39.25339792	22.71572912	Suprabasal	SOX2
1376	THUMP3D3	0.469358263	0.021001058	0.04834985	30.94173887	12.9790936	Superficial	SOX2
1377	RYK	0.469142284	0.002315114	0.011381143	30.19491679	13.27920261	Superficial	SOX2
1378	PHF20L1	0.468437348	0.007423146	0.022959455	61.30332804	34.85572051	Superficial	SOX2
1379	SHCBP1	0.467837807	0.005105016	0.029792864	22.36528606	12.86186587	Basal	SOX2
1380	DENND1A	0.467812365	0.012681065	0.042921737	6.96267468	4.220814957	Suprabasal	SOX2 + KLF5
1381	PPM1D	0.467316307	0.002836074	0.022562695	13.17120466	6.699147999	Basal	SOX2
1382	ZNF598	0.466855393	0.002315114	0.020052792	20.47352294	10.30751396	Basal	SOX2
1383	PGAP2	0.466709668	0.012681065	0.033478436	35.43820831	16.82219589	Superficial	SOX2
1384	PELP1	0.466601935	0.005105016	0.024262694	27.07148126	15.08417818	Suprabasal	SOX2
1385	MAP4K4	0.464946588	0.002315114	0.020052792	29.0491676	15.70885276	Basal	SOX2

1386 USP22	0.463671294	0.012681065	0.042921737	44.5022348	27.78089775	Suprabasal	SOX2
1387 MGAT4B	0.463578307	0.012681065	0.033478436	63.79064886	35.34931688	Superficial	SOX2
1388 DUSP16	0.463416326	0.010644787	0.044687249	12.4917934	5.563776748	Basal	SOX2
1389 FAAP100	0.462850974	0.003462059	0.024854712	14.96658424	7.878325253	Basal	SOX2
1390 ERICH1	0.462223974	0.015054848	0.038009884	25.89510034	10.06784504	Superficial	SOX2
1391 SLC22A23	0.461757582	0.006166656	0.027303057	39.49224725	24.87529787	Suprabasal	SOX2
1392 STAM2	0.459897509	0.002836074	0.0176927	43.15189679	27.25445502	Suprabasal	SOX2
1393 STRN4	0.459425666	0.000506425	0.012898798	25.0584803	12.69442914	Basal	SOX2
1394 PRKCI	0.459071509	0.012681065	0.042921737	51.41691073	33.04730749	Suprabasal	SOX2
1395 GATAD2A	0.458863107	0.003462059	0.024854712	35.79161866	18.9186545	Basal	SOX2
1396 TMEM68	0.458247895	0.015054848	0.038009884	16.45128655	6.283049534	Superficial	SOX2
1397 EIF5B	0.45771753	0.017811616	0.043066688	63.11019127	36.34802617	Superficial	SOX2
1398 NUP98	0.457010854	0.000992312	0.014320968	32.6907407	17.7336952	Basal	SOX2
1399 DYNC11L2	0.456769397	0.000635975	0.007274975	61.99864339	35.22299681	Superficial	SOX2
1400 CAND1	0.454883616	0.015054848	0.048140298	51.67717794	32.39796423	Suprabasal	SOX2
1401 SEC16A	0.454482179	0.010644787	0.044687249	21.18626829	10.61205209	Basal	SOX2
1402 ADAM17	0.453611455	0.010644787	0.029507311	30.19171051	11.82663939	Superficial	SOX2
1403 THUMP2	0.45263715	0.021001058	0.04834985	15.97784169	6.56066906	Superficial	SOX2 + KLF5
1404 ACACA	0.452417245	0.008904627	0.040392504	29.6471181	15.65104834	Basal	SOX2
1405 PPP2R5E	0.452064751	0.021001058	0.04834985	55.92045393	30.5051335	Superficial	SOX2
1406 SLK	0.451135179	0.000401828	0.012455402	60.34261778	38.60359737	Basal	SOX2
1407 MOCOS	0.450507041	0.007423146	0.036548425	11.66780025	6.100869399	Basal	SOX2
1408 TOCF1	0.449688868	0.001526458	0.016792744	41.03802722	24.1069045	Basal	SOX2
1409 PANX1	0.449051913	0.012681065	0.049425568	9.645531418	4.874082636	Basal	SOX2
1410 ZFP90	0.448202743	0.002315114	0.016074975	15.3130742	8.801039518	Suprabasal	SOX2
1411 FBXO46	0.447624189	0.000992312	0.014320968	16.59204452	8.127326468	Basal	SOX2
1412 STRN	0.447432023	0.010644787	0.044687249	38.84829394	21.44867213	Basal	SOX2
1413 NOL6	0.446672582	0.010644787	0.044687249	13.11910862	6.729699791	Basal	SOX2
1414 MDN1	0.446383845	0.005105016	0.029792864	24.44692351	12.62374257	Basal	SOX2
1415 CNN2	0.445861687	0.006166656	0.032981404	56.8142339	32.70563775	Basal	SOX2
1416 ADA	0.445206613	0.005105016	0.029792864	22.03751847	11.78920222	Basal	SOX2
1417 FBR5	0.444705702	0.012681065	0.049425568	30.07899109	15.75416998	Basal	SOX2
1418 STON2	0.443577293	0.008904627	0.034252903	31.50370257	18.35266099	Suprabasal	SOX2
1419 ACOX1	0.442951284	0.004211401	0.027185186	30.32328526	15.83888351	Basal	SOX2 + KLF5
1420 NEDD1	0.442012152	0.008904627	0.034252903	14.81115727	7.965198757	Suprabasal	SOX2
1421 ARAF	0.44188733	0.001883197	0.018415354	23.96647628	12.83259466	Basal	SOX2
1422 GTF3C4	0.438299723	0.010644787	0.038255467	20.14127445	12.16362485	Suprabasal	SOX2
1423 ARMT1	0.437711806	0.010644787	0.029507311	27.61166468	11.64950814	Superficial	SOX2
1424 ZNF513	0.437149719	0.002836074	0.0176927	13.08879921	8.269687283	Suprabasal	SOX2
1425 GPC1	0.4335995	0.005105016	0.024262694	58.84720048	40.39056084	Suprabasal	SOX2
1426 PLS1	0.433501833	0.007423146	0.036548425	23.59769785	12.01671039	Basal	SOX2 + KLF5
1427 TOPBP1	0.432977178	0.003462059	0.019729589	26.22138818	15.40008064	Suprabasal	SOX2
1428 CTSB	0.43282805	0.002315114	0.020052792	79.26851537	55.67357313	Basal	SOX2
1429 CRABP2	0.432650393	0.008904627	0.040392504	83.33089204	72.13197537	Basal	SOX2
1430 RAD54L2	0.431128164	0.006166656	0.027303057	13.54171258	7.65361492	Suprabasal	SOX2
1431 PCBP4	0.430029248	0.012681065	0.042921737	12.17578092	7.218205687	Suprabasal	SOX2
1432 SMCHD1	0.429808244	0.006166656	0.027303057	37.02295778	22.63417127	Suprabasal	SOX2
1433 SNX1	0.429491131	0.002315114	0.016074975	63.4365984	43.72910637	Suprabasal	SOX2
1434 DHX32	0.427564306	0.005105016	0.029792864	29.98898918	16.15208417	Basal	SOX2
1435 PTPN9	0.426795876	0.015054848	0.048140298	12.96039252	7.098054443	Suprabasal	SOX2
1436 SRPRA	0.426396935	0.002315114	0.020052792	47.1307841	26.94631004	Basal	SOX2
1437 MAPRE3	0.426209732	0.012681065	0.042921737	6.598992634	3.77396755	Suprabasal	SOX2
1438 STK24	0.423981945	0.004211401	0.027185186	66.7561237	42.88101471	Basal	SOX2
1439 PPL4	0.423935678	0.001526458	0.009387421	33.29502682	14.07107106	Superficial	SOX2
1440 HDAC2	0.423736835	0.012681065	0.033478436	46.77046386	22.13070123	Superficial	SOX2
1441 DONSON	0.422694654	0.002315114	0.020052792	18.01339736	10.3784105	Basal	SOX2
1442 ATAD2	0.422335996	0.007423146	0.036548425	52.37566144	34.75413718	Basal	SOX2
1443 EIF4G3	0.421871801	0.012681065	0.033478436	41.23540469	19.80500389	Superficial	SOX2 + KLF5
1444 KIF1B	0.421858334	0.001232925	0.015721789	28.04042735	15.11331966	Basal	SOX2
1445 CSNK1G2	0.421806566	0.001526458	0.016792744	41.06864299	23.48149592	Basal	SOX2
1446 AP1S1	0.421228877	0.015054848	0.038009884	48.96038672	26.48981535	Superficial	SOX2
1447 TAF13	0.420823645	0.007423146	0.036548425	21.98425883	10.86907487	Basal	SOX2
1448 RPRD1B	0.420555262	0.004211401	0.027185186	24.94256673	13.10438258	Basal	SOX2
1449 PSME3	0.419754849	0.003462059	0.024854712	36.95658387	21.39527241	Basal	SOX2
1450 EIF4G2	0.419134212	0.005105016	0.029792864	89.21513224	71.25553618	Basal	SOX2
1451 ABHD17C	0.418557758	0.007423146	0.036548425	29.43653927	15.59754586	Basal	SOX2
1452 BAG3	0.418424075	0.001526458	0.016792744	57.19094076	35.78013283	Basal	SOX2
1453 DCTN1	0.418072859	0.002315114	0.016074975	51.97888715	35.8322889	Suprabasal	SOX2
1454 SOS1	0.416701949	0.004211401	0.021879278	38.80402609	24.64701172	Suprabasal	SOX2
1455 PLD1	0.416621216	0.010644787	0.044687249	26.55414004	14.95657525	Basal	SOX2 + KLF5
1456 CSNK2A2	0.416250629	0.007423146	0.030449933	49.98222445	31.77717767	Suprabasal	SOX2
1457 SIGMAR1	0.415664039	0.010644787	0.044687249	45.53288418	27.00160704	Basal	SOX2
1458 BAIAP2L1	0.414981604	0.000992312	0.014320968	23.04935728	12.37712073	Basal	SOX2, SOX2 + KLF5

1459	RRAGD	0.411940318	0.008904627	0.025990329	53.16936183	28.17200598	Superficial	SOX2
1460	LARP4B	0.411512699	0.015054848	0.048140298	44.28576258	28.30531636	Suprabasal	SOX2
1461	RRP1B	0.411164292	0.000795824	0.010838271	32.97235215	19.66653476	Suprabasal	SOX2
1462	MAPK1	0.410899477	0.005105016	0.029792864	48.74884732	28.8759107	Basal	SOX2
1463	OXSR1	0.410887757	0.012681065	0.049425568	31.81485499	17.55439172	Basal	SOX2
1464	PPP4R3A	0.409837121	0.012681065	0.042921737	46.70037185	29.32635926	Suprabasal	SOX2
1465	ABR	0.40963197	0.008904627	0.040392504	28.23171008	14.95736728	Basal	SOX2 + KLF5
1466	TULP4	0.409453896	0.000992312	0.01142308	35.80588971	22.82858622	Suprabasal	SOX2 + KLF5
1467	DARS2	0.408800324	0.007423146	0.036548425	16.0927049	8.816252156	Basal	SOX2
1468	TULP3	0.40868924	0.004211401	0.021879278	33.2829504	21.53384324	Suprabasal	SOX2 + KLF5, SOX2
1469	RAB6A	0.408482401	0.012681065	0.033478436	64.19858162	38.33939519	Superficial	SOX2
1470	NF2	0.407599037	0.000401828	0.012455402	24.32252414	13.08445788	Basal	SOX2
1471	HNRNPUL1	0.404922839	0.000795824	0.010838271	60.58384221	41.805875	Suprabasal	SOX2
1472	UBE3A	0.404126921	0.008904627	0.025990329	52.68022712	27.47703569	Superficial	SOX2
1473	DNAJC21	0.40361818	0.000992312	0.008042817	59.66645697	34.72447459	Superficial	SOX2 + KLF5, SOX2
1474	CREBBP	0.402571645	0.015054848	0.048140298	39.79409462	25.00942118	Suprabasal	SOX2
1475	SMYD4	0.402425291	0.008904627	0.034252903	7.546562152	4.396569188	Suprabasal	SOX2
1476	FAM204A	0.399857747	0.003462059	0.014108599	44.29048694	20.2946133	Superficial	SOX2
1477	SRBD1	0.399456503	0.007423146	0.030449933	14.79261982	9.197075729	Suprabasal	SOX2
1478	HLA-E	0.399386809	0.002315114	0.020052792	91.46666117	75.79158387	Basal	SOX2
1479	CUL1	0.398192813	0.007423146	0.030449933	40.65802972	25.80310235	Suprabasal	SOX2
1480	PSMA5	0.398145724	0.021001058	0.04834985	65.47278703	39.48031861	Superficial	SOX2
1481	KAT5	0.396068142	0.005105016	0.018023407	28.64432152	13.29728154	Superficial	SOX2
1482	HDLBP	0.394837607	0.000401828	0.012455402	79.95998073	57.10289635	Basal	SOX2
1483	ABC7	0.392337334	0.003462059	0.014108599	21.58574896	8.963636351	Superficial	SOX2
1484	LRRFIP1	0.391779281	0.000401828	0.012455402	76.39416407	54.39210723	Basal	SOX2
1485	CAB39	0.391085547	0.008904627	0.040392504	38.52456553	21.76720296	Basal	SOX2
1486	ZNF740	0.387806449	0.003462059	0.019729589	11.0501489	6.429114307	Suprabasal	SOX2
1487	DNAJC5	0.387002103	0.006166656	0.032981404	30.47029786	16.50597108	Basal	SOX2
1488	VBP1	0.386752618	0.021001058	0.04834985	48.30199504	24.9791918	Superficial	SOX2
1489	VGLL4	0.386286071	0.006166656	0.027303057	69.20123638	49.11019076	Suprabasal	SOX2
1490	PPARD	0.385509275	0.005105016	0.029792864	13.50772511	7.152754309	Basal	SOX2
1491	RAVER2	0.385020215	0.015054848	0.048140298	11.98122369	7.225062747	Suprabasal	SOX2
1492	IQCK	0.384096874	0.015054848	0.048140298	7.59743852	4.233400157	Suprabasal	SOX2
1493	CAP1	0.383283453	0.004211401	0.027185186	70.38203023	48.7778019	Basal	SOX2
1494	PRCC	0.382064623	0.001883197	0.010234018	33.12701812	15.6260195	Superficial	SOX2
1495	SPINT2	0.381507478	0.017811616	0.043066688	89.89260612	77.91907541	Superficial	SOX2
1496	ATP6V1C1	0.38106856	0.004211401	0.021879278	29.29032455	18.23094114	Suprabasal	SOX2
1497	HNRNPD	0.379637837	0.008904627	0.025990329	66.22805206	39.57404479	Superficial	SOX2
1498	EZH2	0.379576368	0.004211401	0.027185186	40.42867394	25.49765124	Basal	SOX2
1499	ZFP64	0.37948406	0.010644787	0.038255467	12.40083125	7.455865285	Suprabasal	SOX2
1500	GNL1	0.37843941	0.006166656	0.020290909	31.11718831	14.43086912	Superficial	SOX2
1501	CDK12	0.378351456	0.001526458	0.013290882	48.53275386	31.62280627	Suprabasal	SOX2
1502	NCKAP1	0.378170379	0.010644787	0.044687249	58.11956911	37.04242786	Basal	SOX2
1503	ZNF672	0.376681299	0.010644787	0.044687249	19.56555888	10.59380964	Basal	SOX2
1504	POLR2B	0.37636934	0.012681065	0.042921737	41.3802777	24.66201886	Suprabasal	SOX2
1505	GMCL1	0.375873197	0.007423146	0.022959455	31.99316097	14.72130798	Superficial	SOX2
1506	KCTD5	0.375183782	0.004211401	0.027185186	23.89015549	13.41836054	Basal	SOX2
1507	GDE1	0.372793116	0.021001058	0.04834985	46.2836854	23.83445075	Superficial	SOX2
1508	HGS	0.372464258	0.002836074	0.022562695	37.66991891	21.6422198	Basal	SOX2
1509	ACTR1A	0.372227417	0.004211401	0.027185186	36.13204977	21.11663527	Basal	SOX2
1510	SRRT	0.371491622	0.001883197	0.014679007	37.76365529	23.85917939	Suprabasal	SOX2
1511	TCFL5	0.371359147	0.000506425	0.010489143	8.353413253	4.994880006	Suprabasal	SOX2
1512	ASB6	0.367944847	0.003462059	0.024854712	12.57515056	6.43489909	Basal	SOX2
1513	DSN1	0.367401907	0.006166656	0.027303057	14.87864595	9.062953013	Suprabasal	SOX2
1514	KLF5	0.366989473	0.004211401	0.016013117	90.73767968	78.42717769	Superficial	KLF5, SOX2 + KLF5
1515	UBE3B	0.365018038	0.010644787	0.044687249	22.00039008	11.50400949	Basal	SOX2
1516	CLSPN	0.364721605	0.012681065	0.049425568	28.84436189	17.50717111	Basal	SOX2
1517	EIF4ENIF1	0.364297387	0.000635975	0.010733065	22.31296889	13.97106774	Suprabasal	SOX2
1518	C6orf132	0.363808744	0.001232925	0.015721789	47.99793227	30.24246367	Basal	SOX2
1519	TMCC1	0.361299072	0.002836074	0.022562695	15.70166472	8.402344171	Basal	SOX2
1520	SPATS2L	0.360680694	0.000992312	0.01142308	80.43917619	62.40270925	Suprabasal	KLF5
1521	CD26	0.359851754	0.005105016	0.018023407	53.12997972	29.84803495	Superficial	SOX2
1522	HOOK2	0.359210707	0.021001058	0.04834985	48.76542349	25.87326508	Superficial	SOX2
1523	RASAL2	0.357863099	0.012681065	0.049425568	28.13204675	15.36324284	Basal	SOX2
1524	GALE	0.357551358	0.010644787	0.044687249	38.86560774	23.09276026	Basal	SOX2
1525	MASTL	0.355928529	0.010644787	0.044687249	22.26375576	12.5982032	Basal	SOX2
1526	CUL4A	0.354110326	0.003462059	0.024854712	38.8403561	23.05650822	Basal	SOX2
1527	TMOD3	0.353471008	0.010644787	0.044687249	73.12027102	52.13714682	Basal	SOX2
1528	NUDT4	0.353268938	0.008904627	0.034252903	30.43480114	18.89608606	Suprabasal	SOX2, SOX2 + KLF5
1529	XPO1	0.352059571	0.015054848	0.048140298	60.17473282	39.24143377	Suprabasal	SOX2
1530	ZNF330	0.352054942	0.021001058	0.04834985	33.66922418	16.39634589	Superficial	SOX2
1531	TLK2	0.351292132	0.007423146	0.030449933	37.89732037	23.84071245	Suprabasal	SOX2

1532 LONP1	0.351176435	0.010644787	0.044687249	27.96313576	15.97710597 Basal	SOX2
1533 TADA2A	0.350900882	0.004211401	0.021879278	16.73317655	10.39759773 Suprabasal	SOX2 + KLF5, SOX2
1534 UBAP1	0.348148108	0.012681065	0.049425568	28.3949319	15.61827932 Basal	SOX2
1535 ETF1	0.347930763	0.012681065	0.049425568	64.85346179	43.8817305 Basal	SOX2
1536 SIN3B	0.345189095	0.010644787	0.038255467	21.68181576	14.24138181 Suprabasal	SOX2
1537 EHMT1	0.344749701	0.001232925	0.015721789	34.67135042	19.58732315 Basal	SOX2
1538 NOM1	0.341602586	0.004211401	0.027185186	29.52543453	17.88515075 Basal	SOX2
1539 DCAF7	0.341384602	0.021001058	0.04834985	34.97799652	16.46057478 Superficial	SOX2
1540 HECTD1	0.341197856	0.008904627	0.040392504	55.19918194	35.45256668 Basal	SOX2
1541 ETAA1	0.34086341	0.002836074	0.0176927	18.78995792	11.89426174 Suprabasal	SOX2
1542 FOXK2	0.340257957	0.000635975	0.012925379	28.52080745	15.8799137 Basal	SOX2
1543 MPRIP	0.339903944	0.012681065	0.049425568	29.41008776	16.52158519 Basal	SOX2
1544 ACTN4	0.337577641	0.010644787	0.044687249	82.9768807	62.57568151 Basal	SOX2
1545 UOQLN1	0.337087049	0.007423146	0.036548425	47.23144812	28.48757739 Basal	SOX2
1546 ZNF398	0.335352651	0.012681065	0.049425568	11.78243869	6.596489406 Basal	SOX2
1547 PGRMC2	0.335234595	0.021001058	0.04834985	52.81530241	27.35480933 Superficial	SOX2
1548 BAG6	0.334098072	0.000635975	0.012925379	45.49164076	27.55833727 Basal	SOX2
1549 CD2AP	0.328979616	0.007423146	0.036548425	55.36500458	35.22370908 Basal	SOX2
1550 MARK3	0.328532891	0.001232925	0.015721789	39.36693965	23.67234087 Basal	SOX2
1551 BTBD10	0.324843477	0.012681065	0.049425568	37.09246296	21.95821711 Basal	SOX2
1552 RAF1	0.324610208	0.010644787	0.044687249	37.95147784	22.23152954 Basal	SOX2
1553 SNX9	0.323080903	0.003462059	0.024854712	31.57020056	18.17767224 Basal	SOX2
1554 RNF126	0.321893513	0.012681065	0.049425568	56.94156687	36.51439612 Basal	SOX2
1555 NCAPD3	0.319375719	0.005105016	0.029792864	37.33730953	23.54175813 Basal	SOX2
1556 TPD52L1	0.319203489	0.012681065	0.049425568	70.8735422	49.83127217 Basal	SOX2
1557 TADA2B	0.318377235	0.007423146	0.036548425	11.44702194	6.08819351 Basal	SOX2
1558 RAD21	0.317255801	0.007423146	0.036548425	72.37467016	51.73760027 Basal	SOX2
1559 DPP9	0.316281208	0.005105016	0.029792864	24.5146002	13.78317029 Basal	SOX2
1560 DHX15	0.315489463	0.010644787	0.038255467	50.30688361	33.87821156 Suprabasal	SOX2
1561 PRRC2C	0.314883273	0.007423146	0.030449933	87.62866402	72.69746995 Suprabasal	SOX2
1562 AKAP8	0.314009175	0.005105016	0.024262694	26.62854161	16.76378779 Suprabasal	SOX2
1563 DNAAF5	0.313393642	0.004211401	0.027185186	25.39436291	14.69899341 Basal	SOX2
1564 CSNK1A1	0.311878468	0.002836074	0.0176927	93.53449428	84.71976112 Suprabasal	SOX2
1565 MIS18BP1	0.311634917	0.005105016	0.024262694	39.65562411	24.88374556 Suprabasal	SOX2
1566 ANKRD11	0.311535163	0.005105016	0.024262694	77.75687683	59.74175098 Suprabasal	SOX2
1567 SUPT5H	0.311462565	0.010644787	0.044687249	41.30614259	23.88312125 Basal	SOX2
1568 PRKCH	0.310775043	0.010644787	0.044687249	12.78922278	7.133312113 Basal	SOX2, SOX2 + KLF5
1569 ANXA11	0.309510653	0.007423146	0.036548425	80.1395934	59.90618267 Basal	SOX2 + KLF5
1570 SMARCA2	0.30736207	0.012681065	0.042921737	50.47896445	33.01055583 Suprabasal	SOX2
1571 RBM26	0.306807667	0.004211401	0.021879278	45.24969731	28.33994468 Suprabasal	SOX2
1572 EDC3	0.305267304	0.003462059	0.024854712	13.40354087	7.180247317 Basal	SOX2
1573 ACTB	0.304849735	0.004211401	0.027185186	99.71378693	97.52395914 Basal	SOX2
1574 RNASEL	0.304812706	0.008904627	0.034252903	20.4978733	13.22398589 Suprabasal	SOX2
1575 PRRG4	0.303894969	0.006166656	0.027303057	83.56882003	69.16067751 Suprabasal	SOX2, SOX2 + KLF5
1576 CNDP2	0.301775633	0.007423146	0.036548425	41.87890185	25.30966965 Basal	SOX2
1577 PPM1A	0.297552231	0.010644787	0.044687249	31.80766749	17.79182567 Basal	SOX2
1578 PCM1	0.29663167	0.012681065	0.042921737	62.41064601	43.03776245 Suprabasal	SOX2
1579 XRCC1	0.296049831	0.012681065	0.042921737	16.1532907	10.76767722 Suprabasal	SOX2
1580 PTBP1	0.294116815	0.005105016	0.029792864	65.2690628	44.63874797 Basal	SOX2
1581 RNF40	0.292210922	0.002836074	0.022562695	23.01616376	12.95846387 Basal	SOX2
1582 INTS14	0.291042279	0.012681065	0.042921737	21.96252873	13.69680143 Suprabasal	SOX2
1583 UBTF	0.289426243	0.004211401	0.021879278	55.33188696	37.74718139 Suprabasal	SOX2
1584 BDH1	0.287800194	0.001526458	0.016792744	37.68427329	23.60581804 Basal	SOX2
1585 ZNF174	0.285899464	0.006166656	0.027303057	6.81185006	4.65851935 Suprabasal	SOX2
1586 TAX1BP1	0.28569555	0.006166656	0.032981404	70.90543279	49.84024475 Basal	SOX2
1587 OPA3	0.285098991	0.015054848	0.048140298	18.78897384	12.76558836 Suprabasal	SOX2
1588 KPNA4	0.284385351	0.008904627	0.040392504	53.03150064	33.71170895 Basal	SOX2
1589 CSNK1D	0.282246278	0.006166656	0.032981404	38.6253149	23.71317908 Basal	SOX2
1590 C6orf136	0.282069153	0.003462059	0.024854712	25.12174217	14.50978536 Basal	SOX2 + KLF5
1591 KDM2A	0.281821164	0.005105016	0.029792864	44.65559244	26.94707233 Basal	SOX2
1592 NFX1	0.281778885	0.008904627	0.034252903	30.94818377	19.69308165 Suprabasal	SOX2
1593 KAT7	0.280513646	0.003462059	0.019729589	31.96355226	20.50682651 Suprabasal	SOX2
1594 ZNF623	0.278474992	0.005105016	0.024262694	10.25246344	6.504611864 Suprabasal	SOX2
1595 PSMD2	0.278455513	0.017811616	0.043066688	64.95891017	40.28973587 Superficial	SOX2
1596 SYNRG	0.277856083	0.008904627	0.040392504	27.18815891	15.59211998 Basal	SOX2
1597 CDKN2AIP	0.27405597	0.003462059	0.024854712	48.78322567	32.15435898 Basal	SOX2
1598 APLP2	0.270292897	0.012681065	0.042921737	73.82533826	57.93670449 Suprabasal	SOX2
1599 SF3A1	0.268950282	0.002315114	0.020052792	40.45425161	24.11803561 Basal	SOX2
1600 DNAAF9	0.267541983	0.008904627	0.034252903	36.74656251	23.59342056 Suprabasal	SOX2
1601 PAWR	0.266458622	0.010644787	0.044687249	63.09732871	43.42629148 Basal	SOX2
1602 CTCF	0.266102688	0.010644787	0.038255467	50.85548206	33.85027116 Suprabasal	SOX2
1603 SMC3	0.265657661	0.010644787	0.038255467	66.24412926	45.72828955 Suprabasal	SOX2
1604 PAFAH1B2	0.265099423	0.006166656	0.032981404	49.89534049	31.20887734 Basal	SOX2

1605 DDA1	0.264148216	0.004211401	0.027185186	39.59917761	24.07286753 Basal	SOX2
1606 BRD4	0.260587942	0.010644787	0.044687249	59.06233998	38.69743774 Basal	SOX2
1607 EPN1	0.259066852	0.004211401	0.027185186	52.19066592	33.7144443 Basal	SOX2
1608 NFKB1B	0.258046044	0.010644787	0.044687249	27.74931509	16.39772077 Basal	SOX2
1609 ELF1	0.257772111	0.006166656	0.027303057	78.78518903	61.89883688 Suprabasal	SOX2
1610 SAFB2	0.256603266	0.006166656	0.027303057	33.63209571	21.6889824 Suprabasal	SOX2
1611 SPINT1	0.251117707	0.008904627	0.040392504	62.93750767	43.57976501 Basal	SOX2
1612 LSM12	0.248991693	0.002836074	0.022562695	57.64303137	37.74858485 Basal	SOX2
1613 RAD23B	0.233829178	0.012681065	0.049425568	69.23893558	49.60189286 Basal	SOX2
1614 ANP32E	0.232016051	0.012681065	0.049425568	57.77117902	40.06006791 Basal	SOX2
1615 RBM15B	0.231504327	0.008904627	0.040392504	28.6956174	17.30885728 Basal	SOX2
1616 RIOK1	0.229649382	0.012681065	0.049425568	45.19160897	29.09861844 Basal	SOX2
1617 BSG	0.229322399	0.008904627	0.040392504	86.2205218	68.15708431 Basal	SOX2
1618 TCERG1	0.229183326	0.010644787	0.044687249	47.17707217	30.39663149 Basal	SOX2
1619 BAZ1A	0.226783923	0.005105016	0.029792864	67.80402219	47.92001143 Basal	SOX2
1620 RAP2A	0.219584981	0.012681065	0.049425568	20.63551863	12.4165553 Basal	SOX2, SOX2 + KLF5
1621 SEC23B	0.206323525	0.008904627	0.040392504	26.53475501	15.84923426 Basal	SOX2
1622 USP16	0.202143273	0.006166656	0.020290909	55.11025916	31.92112904 Superficial	SOX2
1623 LUC7L	0.193345812	0.017811616	0.043066688	24.87083467	12.73663129 Superficial	SOX2
1624 FBXO7	0.178143875	0.010644787	0.038255467	43.93005609	30.99583959 Suprabasal	SOX2
1625 CNOT2	0.164714044	0.015054848	0.048140298	57.84791185	42.11150241 Suprabasal	SOX2

Supplemental Table 8. Gene expression profile of EoE DEGs known to be regulated by the SOX2-KLF5 interaction.

gene	Log2FC	Pval	FDR_Pval	Compartment
1 NRXN1	5.011065	0.000184	0.010398	Suprabasal
2 NFATC2	4.981012	0.000989	0.008043	Superficial
3 KCNJ2	4.494243	0.000506	0.010398	Suprabasal
4 BCL2L15	4.350032	0.000154	0.010398	Suprabasal
5 RUNX2	3.769129	0.000505	0.007179	Superficial
6 LYPD6B	3.712118	0.004211	0.016013	Superficial
7 SGK1	3.680086	0.000154	0.007176	Superficial
8 ST8SIA6	3.5861	0.000634	0.007275	Superficial
9 CMYA5	3.552817	0.001526	0.009387	Superficial
10 HRH1	3.502635	0.000992	0.011395	Suprabasal
11 TNS4	2.993108	0.001233	0.00868	Superficial
12 RASGRP1	2.869247	0.000506	0.010398	Suprabasal
13 LY75	2.675558	5.55E-05	0.007176	Superficial
14 HS3ST3A1	2.549606	0.003462	0.014109	Superficial
15 HS3ST1	2.54417	0.000154	0.010398	Suprabasal
16 RARB	2.530013	0.000992	0.008043	Superficial
17 CLDN1	2.4188	0.000506	0.007179	Superficial
18 LITAF	2.418478	0.000402	0.010398	Suprabasal
19 NRP2	2.366104	0.001233	0.012403	Suprabasal
20 SOX21	2.296942	0.000506	0.007179	Superficial
21 GGH	2.238839	0.000318	0.007176	Superficial
22 UTRN	2.217242	0.000196	0.007176	Superficial
23 MYOF	2.181333	0.000796	0.007615	Superficial
24 GIPC2	2.130797	0.00012	0.007176	Superficial
25 MYH9	2.016182	0.000402	0.007176	Superficial
26 PDLIM4	1.989624	0.000318	0.007176	Superficial
27 NUAK2	1.982932	0.001233	0.00868	Superficial
28 LPCAT4	1.972938	0.000796	0.007615	Superficial
29 LRRC8B	1.948757	0.001526	0.009387	Superficial
30 TLE1	1.923102	0.00012	0.007176	Superficial
31 SGMS2	1.870786	0.000402	0.007176	Superficial
32 FMN1	1.866941	0.000992	0.008043	Superficial
33 GCNT3	1.859067	0.002315	0.016077	Suprabasal
34 SERPINB5	1.819859	0.000506	0.007179	Superficial
35 ARHGAP26	1.751173	7.20E-05	0.007176	Superficial
36 ADAM9	1.728379	0.001233	0.012403	Suprabasal
37 IGF2R	1.719943	0.000992	0.008043	Superficial
38 ATP8B1	1.711098	9.30E-05	0.010398	Suprabasal
39 FAM3C	1.692974	0.000992	0.008043	Superficial
40 CD9	1.664881	0.000318	0.007176	Superficial
41 DSG3	1.659685	0.000402	0.007176	Superficial
42 SERPINB2	1.591511	0.000636	0.010421	Suprabasal
43 MACF1	1.585173	0.001883	0.010234	Superficial
44 Tmprss11l	1.540082	0.008905	0.040393	Basal
45 NRIP1	1.527775	0.000992	0.008043	Superficial
46 SETBP1	1.526392	0.000796	0.007615	Superficial
47 MYH14	1.506037	0.000636	0.007275	Superficial
48 MCC	1.495164	0.001233	0.00868	Superficial
49 SLC16A7	1.49266	0.000318	0.007176	Superficial
50 EEA1	1.47964	0.000196	0.007176	Superficial

51	KLF4	1.451647	0.000318	0.007176	Superficial
52	RAB11FIP1	1.442201	0.000318	0.012455	Basal
53	ETS2	1.44046	0.000318	0.010398	Suprabasal
54	TJP2	1.428787	0.00025	0.012455	Basal
55	FAM83B	1.409211	0.005105	0.018023	Superficial
56	ANGPTL4	1.390768	9.30E-05	0.012455	Basal
57	OCIAD2	1.316919	0.000796	0.007615	Superficial
58	ARHGAP18	1.313209	0.001526	0.009387	Superficial
59	ERC1	1.308853	0.000992	0.008043	Superficial
60	SOX13	1.301876	0.004211	0.016013	Superficial
61	TMPRSS4	1.291648	0.000318	0.012455	Basal
62	PDE4D	1.288243	0.003462	0.014109	Superficial
63	SHROOM2	1.258271	0.000636	0.007275	Superficial
64	MREG	1.217755	0.000402	0.012455	Basal
65	MBOAT2	1.213442	0.000796	0.013643	Basal
66	ROCK2	1.208618	0.001233	0.00868	Superficial
67	LIMA1	1.205073	0.001233	0.00868	Superficial
68	SLC25A24	1.202476	0.002836	0.012662	Superficial
69	MYO10	1.191689	0.000636	0.007275	Superficial
70	AFF1	1.191218	0.001526	0.009387	Superficial
71	MLLT3	1.184495	0.002836	0.012662	Superficial
72	MEIS1	1.17702	0.000992	0.008043	Superficial
73	PARP12	1.170055	0.000636	0.012925	Basal
74	RAPGEF5	1.16116	0.000402	0.007176	Superficial
75	BARX2	1.154142	0.000318	0.007176	Superficial
76	TP63	1.146853	0.006167	0.020291	Superficial
77	B4GALNT3	1.142849	0.012681	0.033478	Superficial
78	RPS6KA3	1.13976	0.001233	0.00868	Superficial
79	ROBO2	1.132995	0.007423	0.022959	Superficial
80	FOXQ1	1.123032	0.000992	0.011395	Suprabasal
81	ACVR1	1.112086	0.010645	0.029507	Superficial
82	SLC5A3	1.108546	0.017812	0.043067	Superficial
83	EPHB6	1.098421	0.002315	0.011381	Superficial
84	CRYZ	1.092202	0.001883	0.010234	Superficial
85	TGFBR1	1.082553	0.017812	0.043067	Superficial
86	VCL	1.068577	0.000402	0.010398	Suprabasal
87	IFIH1	1.055273	0.002315	0.016077	Suprabasal
88	RAB11FIP2	1.05154	0.004211	0.016013	Superficial
89	CLDN4	1.046614	0.003462	0.024855	Basal
90	GBP2	1.043537	0.006167	0.020291	Superficial
91	PDZRN3	1.038845	0.005105	0.018023	Superficial
92	GJB5	1.036529	0.012681	0.033478	Superficial
93	USP12	1.026388	0.001233	0.012403	Suprabasal
94	LMTK2	0.992633	0.002315	0.016077	Suprabasal
95	ITGB8	0.982346	0.012681	0.043322	Suprabasal
96	RNF19A	0.979825	0.00025	0.010398	Suprabasal
97	EFNB2	0.971029	0.002315	0.011381	Superficial
98	CCDC88C	0.960891	0.008905	0.02599	Superficial
99	MBNL3	0.951778	0.005105	0.018023	Superficial
100	GPHN	0.950352	0.005105	0.018023	Superficial
101	PKP1	0.940526	0.005105	0.018023	Superficial
102	ATXN1	0.939973	0.008905	0.02599	Superficial

103	TNK2	0.921896	0.005105	0.02473	Suprabasal
104	SMPD3	0.918832	0.012681	0.033478	Superficial
105	ANK3	0.913275	0.012681	0.033478	Superficial
106	SLC4A7	0.9	0.017812	0.043067	Superficial
107	ST14	0.895367	7.20E-05	0.012455	Basal
108	EPN2	0.893136	0.000796	0.007615	Superficial
109	KRT19	0.89218	0.012681	0.043322	Suprabasal
110	BMPR2	0.892138	0.001883	0.010234	Superficial
111	TNRC18	0.889206	0.017812	0.043067	Superficial
112	FAM110C	0.886645	0.000506	0.010398	Suprabasal
113	LMO7	0.886093	0.002315	0.016077	Suprabasal
114	NOL10	0.882089	0.015055	0.03801	Superficial
115	RNF19B	0.881491	0.000506	0.012899	Basal
116	UGCG	0.880956	0.000318	0.012455	Basal
117	BTG1	0.874641	7.20E-05	0.007176	Superficial
118	ALCAM	0.848191	0.007423	0.022959	Superficial
119	DTNBP1	0.846795	0.021001	0.04835	Superficial
120	MAP3K8	0.845745	0.004211	0.027185	Basal
121	MACC1	0.834418	0.001883	0.018415	Basal
122	DNMBP	0.834005	0.017812	0.043067	Superficial
123	NDFIP2	0.829957	0.000636	0.010421	Suprabasal
124	DSC3	0.826851	0.021001	0.04835	Superficial
125	TWF2	0.823549	0.000992	0.008043	Superficial
126	PPL	0.822802	0.000318	0.012455	Basal
127	ACAD9	0.822606	0.000402	0.007176	Superficial
128	PIM1	0.816683	0.000506	0.012899	Basal
129	TNIP1	0.799214	0.000506	0.010398	Suprabasal
130	BACE2	0.792111	0.000506	0.010398	Suprabasal
131	PLS1	0.792064	0.002836	0.018003	Suprabasal
132	KCTD1	0.79082	0.000796	0.007615	Superficial
133	KLF3	0.788074	0.000402	0.010398	Suprabasal
134	DSP	0.784191	0.000506	0.012899	Basal
135	RASSF6	0.780974	0.021001	0.04835	Superficial
136	IL15	0.76698	0.007423	0.030891	Suprabasal
137	CRADD	0.748668	0.007423	0.022959	Superficial
138	FAM53B	0.742226	0.002836	0.018003	Suprabasal
139	ACOX1	0.738899	0.007423	0.030891	Suprabasal
140	ELF3	0.738836	0.003462	0.019935	Suprabasal
141	ARFGAP3	0.737415	0.004211	0.016013	Superficial
142	ZFAND5	0.732781	0.000636	0.010421	Suprabasal
143	EZR	0.727427	0.002315	0.020053	Basal
144	KHDRBS3	0.710488	0.000636	0.012925	Basal
145	MIPEP	0.707167	0.021001	0.04835	Superficial
146	SHROOM3	0.695336	0.007423	0.036548	Basal
147	FCHSD2	0.691176	0.007423	0.030891	Suprabasal
148	TXNRD1	0.681193	0.004211	0.022366	Suprabasal
149	SGMS1	0.679916	0.00025	0.010398	Suprabasal
150	ANXA11	0.668315	0.000402	0.010398	Suprabasal
151	MAL2	0.666972	0.000992	0.014321	Basal
152	B3GNT2	0.659309	0.015055	0.03801	Superficial
153	ILVBL	0.64809	0.021001	0.04835	Superficial
154	PACS1	0.624994	0.000636	0.012925	Basal

155	RIN2	0.623406	0.002836	0.018003	Suprabasal
156	TTC39C	0.619828	0.017812	0.043067	Superficial
157	NDUFA4	0.617621	0.007423	0.022959	Superficial
158	LMNA	0.616183	0.002315	0.011381	Superficial
159	JUN	0.612848	0.010645	0.029507	Superficial
160	NCOR2	0.603984	0.005105	0.02473	Suprabasal
161	RAP2B	0.602605	0.012681	0.043322	Suprabasal
162	MGAT4A	0.589002	0.00025	0.010398	Suprabasal
163	HS6ST1	0.587523	0.001883	0.01459	Suprabasal
164	IPMK	0.585907	0.008905	0.034888	Suprabasal
165	PAIP2B	0.580739	0.021001	0.04835	Superficial
166	SPPL3	0.573635	0.003462	0.014109	Superficial
167	TULP3	0.561441	0.000154	0.010398	Suprabasal
168	RAB27B	0.555356	0.002315	0.011381	Superficial
169	RERE	0.55374	0.002315	0.016077	Suprabasal
170	RRP12	0.55344	0.001233	0.015722	Basal
171	JUP	0.548641	0.000796	0.013643	Basal
172	TRIP10	0.52718	0.000796	0.013643	Basal
173	ANXA1	0.526355	0.010645	0.044687	Basal
174	MPZL1	0.508728	0.008905	0.02599	Superficial
175	EHF	0.492196	0.010645	0.03891	Suprabasal
176	TRIM33	0.48945	0.017812	0.043067	Superficial
177	AHNAK	0.472581	0.000992	0.014321	Basal
178	THUMPD2	0.452637	0.021001	0.04835	Superficial
179	STK38	0.448032	0.001526	0.013166	Suprabasal
180	FNBP1	0.44158	0.003462	0.019935	Suprabasal
181	EIF4G3	0.421872	0.012681	0.033478	Superficial
182	PLD1	0.416621	0.010645	0.044687	Basal
183	BAIAP2L1	0.414982	0.000992	0.014321	Basal
184	SMG7	0.408191	0.015055	0.048244	Suprabasal
185	DNAJC21	0.403618	0.000992	0.008043	Superficial
186	N4BP1	0.398064	0.000992	0.011395	Suprabasal
187	TULP4	0.387329	0.001526	0.013166	Suprabasal
188	SETD5	0.37761	0.005105	0.02473	Suprabasal
189	CAPN2	0.368913	0.015055	0.048244	Suprabasal
190	KLF5	0.366989	0.004211	0.016013	Superficial
191	PARD3	0.323073	0.002836	0.018003	Suprabasal
192	PHACTR4	0.321553	0.015055	0.048244	Suprabasal
193	PRKCH	0.310775	0.010645	0.044687	Basal
194	C6orf136	0.282069	0.003462	0.024855	Basal
195	ASAH1	-0.26554	0.008905	0.040393	Basal
196	IL20RB	-0.32366	0.012681	0.043322	Suprabasal
197	CTSZ	-0.33085	0.010645	0.044687	Basal
198	SLC1A4	-0.54385	0.004211	0.027185	Basal
199	MPPED2	-0.68819	0.012681	0.049426	Basal
200	PTGR1	-0.71596	0.001883	0.018415	Basal
201	TGFBI	-0.82612	0.001526	0.016793	Basal
202	SPRY1	-0.83185	0.008905	0.034888	Suprabasal
203	FHL2	-0.95479	0.000318	0.012455	Basal
204	EPCAM	-1.00287	0.021001	0.04835	Superficial
205	LFNG	-1.0368	0.000992	0.014321	Basal
206	ANKH	-1.06814	0.00012	0.012455	Basal

207	ARMCX1	-1.10077	0.000318	0.012455	Basal
208	SORBS2	-1.12594	0.000636	0.012925	Basal
209	CYR1	-1.22211	0.001883	0.018415	Basal
210	PFN2	-1.24968	0.000796	0.013643	Basal
211	EFEMP1	-1.26834	0.000196	0.012455	Basal
212	TGM3	-1.39805	0.001883	0.01459	Suprabasal
213	SYT17	-1.41193	0.008905	0.02599	Superficial
214	GHR	-1.42445	0.00025	0.012455	Basal
215	STXBP1	-1.60505	0.006167	0.020291	Superficial
216	ALOX12	-1.64626	0.012681	0.043322	Suprabasal
217	NGEF	-1.69712	0.000992	0.011395	Suprabasal
218	ZNF365	-1.72312	0.008905	0.02599	Superficial
219	PLB1	-1.80572	0.001883	0.010234	Superficial
220	DHRS9	-2.3798	0.00025	0.007176	Superficial
221	TGM7	-2.41928	0.010171	0.029507	Superficial
222	IL1A	-2.49769	0.003462	0.014109	Superficial
223	RAI14	-2.77967	0.000318	0.007176	Superficial
224	SULT1B1	-3.33906	0.000183	0.007176	Superficial

Supplemental Table 9. List of antibodies used in the study.

Antibody	Company	Catalog #	Assay	Concentration	Secondary / Conjugate
anti-KI-67	Abcam	16667	IHC	1:100	goat anti-rabbit
anti-SOX2	Cell Signaling	14962S	IHC	1:500	goat anti-rabbit
anti-KLF5	Sigma-Aldrich	HPA040398	IHC	1:150	goat anti-rabbit
anti-KRT14	Cell Signaling	48020	Multispectral IF	1:200	Opal 540
anti-P63	ABclonal	A19652	Multispectral IF	1:100	Opal 690
anti-IVL	Santa Cruz Biotechnology	sc-21748	Multispectral IF	1:500	Opal 520
anti-CNFN	Novus Biologicals	NBP2-14668	Multispectral IF	1:200	Opal 570