

Table S1 Risk difference of 148 DEGs between high and low-risk groups

Gene	Low mean	High mean	logFC	P value	FDR
NLRP5	1.65009982	0.79512632	-1.0532973	7.91E-10	4.91E-09
RPL26P30	4.72972028	1.35573464	-1.80268	4.67E-05	0.00011708
MYH7	2.21013064	0.25566117	-3.1118267	0.00065785	0.00132591
IGHV1-12	4.87180193	2.34440052	-1.0552364	2.09E-08	1.00E-07
IYD	0.60645917	1.79475431	1.56530393	4.98E-13	5.82E-12
TMC3	1.9375889	0.96575841	-1.0045283	9.89E-06	2.82E-05
IGKV2OR22-4	5.47471587	2.03309408	-1.4291071	2.75E-07	1.07E-06
TCL1A	3.73095321	1.28797489	-1.5344398	2.97E-09	1.66E-08
MIR200B	2.56173936	1.17190367	-1.1282697	1.38E-12	1.48E-11
EDN3	3.73569752	1.75713324	-1.0881541	3.29E-15	5.83E-14
SNORD15B	25.1438377	6.75237395	-1.8967382	0.00027198	0.00059092
CR2	5.36637862	2.09425847	-1.3575093	5.10E-07	1.88E-06
VPREB3	8.43855385	3.79072492	-1.154522	6.38E-07	2.31E-06
GSTA3	1.39908339	2.80199687	1.00197339	0.00340808	0.00594712
BLK	1.54071835	0.53438188	-1.5276602	4.26E-12	4.08E-11
IL17B	4.35094083	1.37454277	-1.6623756	6.36E-17	1.62E-15
IGHA2	575.411323	199.47379	-1.5283944	1.75E-16	4.04E-15
COL9A3	16.8102657	7.60700398	-1.1439423	4.69E-06	1.42E-05
CPLX2	2.78582624	7.43493713	1.41621527	3.63E-06	1.13E-05
ECRG4	14.6620038	4.67040616	-1.6504624	3.10E-17	8.43E-16
SYT8	7.93041505	3.4399793	-1.2049965	3.13E-17	8.50E-16
PRSS12	2.09956211	0.95901585	-1.1304619	5.07E-09	2.71E-08
MYL2	3.13672037	0.57105307	-2.4575602	8.22E-07	2.90E-06
NXNL2	8.55568963	3.97536378	-1.1057973	4.84E-19	1.95E-17
TRBJ1-5	7.68419505	3.68579842	-1.059917	4.64E-09	2.50E-08
IGHJ3P	20.6763581	9.86579718	-1.0674746	1.08E-09	6.55E-09
RN7SL1	913.837042	1891.27892	1.04935331	0.01531686	0.0234065
IGHV3-72	59.0108152	24.5841944	-1.2632483	8.51E-10	5.26E-09
TNNI2	8.84060826	3.55401639	-1.3146953	7.96E-20	3.89E-18
AC011503.1	2.22076294	0.47804083	-2.2158496	0.01642209	0.02492288
CRISP3	64.6327294	151.009536	1.22430283	0.00270846	0.00481545
TF	3.85135073	1.7577048	-1.1316717	4.38E-15	7.55E-14
CHGA	189.384089	20.5044652	-3.2073051	1.13E-07	4.69E-07
PAX7	0.96913156	2.62908276	1.43979512	1.78E-05	4.85E-05
CXCL17	50.193146	124.383486	1.30923267	0.01451637	0.02226844
GPIHBP1	7.65565128	3.75170549	-1.0289785	4.06E-20	2.15E-18
AVPR2	2.21075495	1.099119	-1.0081915	2.39E-21	1.69E-19
MPZ	11.0499026	2.59784951	-2.0886439	2.55E-13	3.13E-12
KRT6C	4.29799853	1.87964621	-1.1932039	0.02936534	0.04227853
IGHV3-64D	75.6990611	35.9999135	-1.072282	0.00015288	0.00034869
RNU1-67P	6.06540798	1.4551738	-2.0594132	1.04E-05	2.96E-05
CD79B	7.43505578	3.53424523	-1.0729414	4.68E-16	9.83E-15
LORICRIN	7.06948229	0.19079205	-5.2115316	1.21E-12	1.32E-11
AL606500.1	3.49133202	8.0370993	1.20289735	5.65E-07	2.07E-06
SPIB	6.40189835	2.75404927	-1.2169454	5.24E-10	3.37E-09
CHIT1	14.4509259	4.4455742	-1.7007203	0.00274514	0.00487601
MYH11	17.7988406	8.78446615	-1.0187568	7.44E-13	8.40E-12
GZMM	8.85464936	4.31035191	-1.0386295	2.77E-14	4.08E-13
ZPLD1	1.30311101	3.72446321	1.51507252	0.01278133	0.01984461
CAVIN2	13.8290756	6.90851979	-1.0012562	3.12E-15	5.56E-14
KRT40	1.59507394	0.44194539	-1.8516833	0.02041617	0.03036897
MIR205	5.11440413	2.30942842	-1.1470303	2.86E-17	7.83E-16
TRBJ1-3	4.79085229	2.38935425	-1.0036616	3.47E-09	1.91E-08
LEFTY2	3.13594945	1.15811436	-1.4371246	1.43E-13	1.84E-12
MIR126	1.93437037	0.81498388	-1.2470206	8.38E-13	9.39E-12
AC004687.1	3.34897963	1.56415316	-1.0983398	4.04E-16	8.60E-15
GLRA3	6.88012312	2.46881794	-1.4786139	3.38E-09	1.86E-08
MAPT-AS1	1.61690248	0.7746208	-1.0616705	2.39E-16	5.31E-15
TMPRSS4	2.17912018	4.50710534	1.0484554	0.00307828	0.00541613
CLDN5	15.0181724	7.48015504	-1.0055692	9.78E-21	5.93E-19
FCER2	2.53081917	0.77575033	-1.7059401	4.21E-13	5.00E-12
OSR1	7.90456138	3.44842216	-1.196749	1.72E-24	2.70E-22
SIRLNT	6.26329303	16.3451615	1.38387035	0.01121851	0.01764937
SPRR3	1.72903688	6.16047987	1.83307409	0.00060785	0.00123477
AC113346.1	0.52091807	1.59342905	1.61300639	0.00023655	0.00051932
B4GALNT2	0.90127991	3.40285109	1.91669689	4.10E-07	1.54E-06
AC136475.3	32.8151905	15.9870121	-1.0374635	2.95E-15	5.28E-14
ATOH8	1.48703743	0.66978874	-1.1506629	4.93E-19	1.97E-17
RNU1-16P	2.41678	0.98887835	-1.2892212	0.03394713	0.04828657
MS4A1	11.5112474	4.03221882	-1.5133983	1.86E-08	8.96E-08
IGLV1-70	4.65297385	1.33762347	-1.798481	4.56E-05	0.00011464
ALX4	2.74669083	1.22099217	-1.1696406	1.91E-16	4.37E-15
DES	14.9213782	4.33654745	-1.782762	2.62E-07	1.02E-06
LINC02487	3.98586917	1.5184105	-1.3923325	0.0129326	0.02005719
IGHV1-45	6.79648073	3.11427492	-1.1258916	9.77E-08	4.11E-07
VEGFD	2.79238018	1.08255525	-1.3670547	6.55E-15	1.10E-13
CD300LG	3.04829183	1.20605889	-1.3377007	1.55E-19	6.93E-18
ZAP70	5.80942248	2.78022814	-1.0631915	2.51E-16	5.56E-15
CD19	3.8930845	1.55112656	-1.3275973	1.51E-09	8.89E-09
FCRLA	2.97549927	1.46018719	-1.0269784	1.99E-07	7.90E-07
GDF9	13.8662841	6.25715416	-1.1480027	6.78E-08	2.94E-07
PRSS35	1.50323752	0.67602162	-1.1529317	0.00501812	0.00848734
COL11A2	9.05585138	1.49409441	-2.599579	6.50E-13	7.43E-12
NPY2R	1.98478954	0.52644156	-1.9146407	3.14E-10	2.11E-09
LINC01016	4.0316445	1.63121014	-1.3054258	1.04E-08	5.26E-08
TRBJ2-7	4.29640119	1.98132939	-1.11666	4.67E-08	2.09E-07
IGKV6D-21	13.874311	5.18759299	-1.4192789	2.80E-05	7.34E-05
CCL19	134.695634	57.6737827	-1.2237155	9.16E-16	1.82E-14
GABRQ	0.7482189	4.43069891	2.56600198	0.02636019	0.03829374
TCEAL5	2.06116009	0.82771375	-1.3162527	5.30E-19	2.11E-17
IGLV4-3	4.7583455	1.98344942	-1.2624484	8.67E-05	0.00020682
PRR33	1.87412385	0.9019313	-1.0551268	1.41E-20	8.36E-19
H1-5	1.20817789	2.73803009	1.18030541	0.03128307	0.04482794
PTX3	13.3957469	5.88094772	-1.1876544	1.30E-11	1.14E-10
SCARA5	4.30379495	1.72942347	-1.3153182	4.56E-13	5.38E-12
C4BPA	6.13368954	1.87491278	-1.7099317	5.63E-07	2.06E-06
IFITM5	3.34370174	0.56383203	-2.5681088	5.92E-07	2.16E-06
CYP4F8	13.8595791	4.92136038	-1.4937544	0.0001429	0.00032753
BCHE	13.6081027	5.4594629	-1.317635	0.00718506	0.01178631
RASGRP2	4.20472239	1.90381029	-1.1431208	9.86E-23	9.56E-21
PAX5	1.75424963	0.71695103	-1.2909076	1.55E-06	5.17E-06
MYOC	7.77663275	0.38450115	-4.3380858	8.54E-07	3.01E-06
TRABD2B	3.49139165	1.71731597	-1.0236467	2.44E-15	4.43E-14
AP003555.2	1.79658817	0.82278282	-1.1266762	1.06E-09	6.43E-09
RPL3L	1.68527908	0.41985498	-2.0050245	2.49E-06	8.01E-06
ACKR1	57.2289966	25.6896953	-1.1555565	1.92E-17	5.43E-16
KRT1	46.8312169	2.95163597	-3.9878838	0.00022663	0.00049945
CGA	31.1761628	63.7687487	1.0324062	3.29E-05	8.51E-05
AC136428.1	3.27927798	1.59719183	-1.0378406	1.69E-05	4.62E-05
BANK1	3.08176193	1.44988837	-1.0878136	3.30E-07	1.26E-06
MAB21L4	11.906915	33.2245433	1.48044971	0.00032437	0.00069468
COL17A1	32.2738875	11.2593328	-1.519246	3.03E-12	3.00E-11
LINC00926	3.71744661	1.45750659	-1.3508096	1.78E-36	1.49E-32
LEP	7.6824056	3.67852113	-1.0624323	3.72E-09	2.03E-08
TNNT3	5.15711697	1.13854657	-2.1793715	2.89E-24	4.18E-22
ACTA2-AS1	3.09716908	1.48993585	-1.0556999	2.12E-16	4.80E-15
NGFR	17.4116667	8.67613631	-1.0049297	3.70E-19	1.53E-17
FCRL1	1.63130569	0.42005182	-1.9573879	9.91E-10	6.06E-09
H2AC14	0.63578321	1.36726916	1.10469045	0.00145732	0.00274616
IGHD	29.9217488	11.2940588	-1.4056305	1.62E-12	1.71E-11
NTS	128.034628	20.7550589	-2.6249991	0.01333251	0.02061521
RN7SL3	9.00687147	94.5643751	3.39219881	1.01E-06	3.49E-06
PENK	2.39869725	0.51625993	-2.2160816	0.0229697	0.03378382
LINC01836	4.15993037	1.98632174	-1.0664601	2.48E-22	2.15E-20
TUNAR	1.86923505	0.75180838	-1.3140111	3.79E-07	1.43E-06
MIR4539	6.6517978	2.32969876	-1.5136009	8.70E-06	2.51E-05
CEACAM6	165.240965	345.481805	1.06403835	2.16E-05	5.78E-05
TMEM132C	2.3094422	1.06422641	-1.1177393	1.42E-16	3.34E-15
TNFRSF13C	3.76002633	1.71917313	-1.1290279	9.55E-10	5.85E-09
MIR23B	1.50724982	0.69258628	-1.1218528	1.58E-09	9.26E-09
OXTR	16.6774828	7.06336788	-1.2394734	1.86E-05	5.06E-05
IGSF1	13.7234099	6.63901582	-1.0475977	1.15E-07	4.80E-07
MIR145	10.1433614	3.33016931	-1.6068684	4.94E-18	1.62E-16
NPTX1	5.33990495	1.31065777	-2.026523	0.00010083	0.00023804
ITGB2-AS1	3.54861092	1.71874724	-1.045897	4.41E-21	2.90E-19
CEACAM7	0.90612661	2.06091108	1.18549772	3.73E-06	1.16E-05
RNVU1-29	4.9226478	1.54604803	-1.6708494	8.80E-07	3.09E-06
ARHGAP40	22.711673	10.1017365	-1.1688307	1.14E-08	5.75E-08
FABP4	203.098928	96.3318119	-1.0760984	4.13E-11	3.27E-10
TACR1	3.04377743	1.51947917	-1.002286	5.77E-16	1.19E-14
CARMN	2.80149266	1.28673613	-1.1224795	7.68E-20	3.78E-18
WIF1	18.3111505	8.36620197	-1.1300777	1.80E-07	7.21E-07
COL9A1	2.76546651	1.13634484	-1.2831222	1.13E-09	6.82E-09
CHRD2L	8.11705569	3.15070455	-1.365282	1.05E-06	3.62E-06
KLHL41	1.61390963	0.			