

Table S2. The clinical information of GSE17538 dataset	OS.time	OS	DFS	DFS.time	DSS	DSS.time	Age	Gender	Stage	Grade
GSM437096	3576.3	0	0	3576.3	0	3576.3	56	Female	1	Well
GSM437100	3324.6	0	0	3276.3	0	3324.6	63	Male	1	Moderately
GSM437102	2523.9	0	0	2523.9	0	2523.9	66	Male	1	Moderately
GSM437111	1503	0	0	1503	0	1503	71	Male	1	Moderately
GSM437113	908.1	0	0	592.5	0	908.1	58	Male	1	Moderately
GSM437118	1659.9	0	0	1659.9	0	1659.9	77	Female	2	Poorly
GSM437119	4045.8	1	1	2809.8	1	4045.8	41	Male	2	Moderately
GSM437124	863.7	1	1	580.8	1	863.7	80	Male	2	Moderately
GSM437125	804.6	1	0	804.6	0	804.6	66	Male	2	Moderately
GSM437130	1011.9	1	1	423.9	1	1011.9	54	Female	2	Moderately
GSM437133	1119.3	1	1	1119.3	1	1119.3	75	Female	2	Well
GSM437134	2592.9	0	0	2592.9	0	2592.9	74	Female	2	Moderately
GSM437135	1677.6	0	0	1677.6	0	1677.6	74	Female	2	Moderately
GSM437136	2119.5	0	0	2119.5	0	2119.5	83	Female	2	Moderately
GSM437139	2519.7	0	1	671.4	0	2519.7	65	Female	2	Moderately
GSM437144	1119.3	0	0	1119.3	0	1119.3	71	Male	2	Moderately
GSM437145	660.6	1	1	660.6	1	660.6	78	Female	2	Moderately
GSM437152	1753.5	0	0	1401.3	0	1753.5	48	Female	2	Moderately
GSM437153	1379.7	0	0	1379.7	0	1379.7	68	Male	2	Moderately
GSM437157	1177.5	0	0	1177.5	0	1177.5	59	Female	2	Poorly
GSM437159	757.2	0	0	757.2	0	757.2	71	Male	2	Moderately
GSM437163	1103.4	0	0	876.6	0	1103.4	64	Female	2	Moderately
GSM437164	1245.6	0	0	858.9	0	1245.6	84	Female	2	Moderately
GSM437174	727.8	1	1	357	1	727.8	46	Male	3	Moderately
GSM437175	3155.1	0	0	3155.1	0	3155.1	39	Male	3	Moderately
GSM437180	825.3	1	1	638.1	1	825.3	53	Male	3	Well
GSM437181	1377.6	1	1	482.1	1	1377.6	53	Female	3	Moderately
GSM437185	2985.3	0	0	2985.3	0	2985.3	48	Female	3	Well
GSM437187	2298	1	1	827.4	1	2298	58	Male	3	Poorly
GSM437188	300.6	1	1	286.8	1	300.6	75	Male	3	Moderately
GSM437189	1243.5	1	1	700.2	1	1243.5	63	Male	3	Moderately
GSM437190	2887.8	0	0	2688.6	0	2887.8	46	Male	3	Moderately
GSM437191	2568.3	0	0	2568.3	0	2568.3	71	Female	3	Moderately
GSM437197	170.4	1	1	99.6	1	170.4	83	Female	3	Moderately
GSM437199	2222.1	0	1	745.5	0	2222.1	66	Male	3	Moderately
GSM437200	1522.8	1	1	1231.8	1	1522.8	69	Male	3	Moderately
GSM437201	2034.6	1	1	1107.6	1	2034.6	64	Female	3	Moderately
GSM437203	1517.7	0	0	1517.7	0	1517.7	67	Female	3	Poorly
GSM437204	1037.4	1	NA	0	1	1037.4	57	Male	3	Moderately
GSM437205	1161.6	1	0	1161.6	0	1161.6	73	Female	3	Moderately
GSM437209	1780.2	0	0	1780.2	0	1780.2	69	Male	3	Poorly
GSM437212	787.8	1	0	787.8	0	787.8	78	Female	3	Poorly
GSM437214	961.5	1	1	631.2	1	961.5	46	Male	3	Moderately
GSM437215	1678.5	0	0	1340.1	0	1678.5	67	Male	3	Moderately
GSM437219	1473.3	0	0	1473.3	0	1473.3	71	Female	3	Moderately
GSM437224	27.6	0	0	27.6	0	27.6	54	Male	3	Moderately
GSM437225	940.8	0	0	940.8	0	940.8	78	Female	3	Moderately
GSM437226	1209	0	0	568.8	0	1209	61	Female	3	Moderately
GSM437227	3499.2	0	1	2575.2	0	3499.2	74	Male	3	Moderately
GSM437229	599.4	0	0	599.4	0	599.4	81	Female	3	Poorly
GSM437230	738.6	0	0	156.6	0	738.6	62	Female	3	Moderately
GSM437234	159.6	1	NA	0	1	159.6	46	Male	4	Moderately
GSM437235	70.8	1	NA	0	1	70.8	69	Male	4	Poorly
GSM437236	171.6	1	NA	0	1	171.6	73	Male	4	Moderately
GSM437239	148.8	1	NA	0	1	148.8	88	Male	4	Moderately
GSM437243	563.1	1	1	318.3	1	563.1	69	Male	4	Moderately
GSM437251	240.6	1	NA	0	1	240.6	63	Male	4	Moderately
GSM437254	1108.5	1	NA	0	0	1108.5	76	Male	4	Poorly
GSM437257	692.1	1	NA	0	1	692.1	42	Female	4	Moderately
GSM437258	595.5	1	NA	0	1	595.5	78	Female	4	Moderately
GSM437262	457.5	1	NA	0	1	457.5	73	Male	4	Moderately
GSM437268	683.4	1	NA	0	1	683.4	68	Male	4	Moderately
GSM437270	1621.479	0	0	1621.479	NA	NA	70	Female	2	NA
GSM437271	1917.37	0	0	1917.37	NA	NA	48	Female	3	Moderately
GSM437272	1388.712	1	0	1388.712	NA	NA	72	Male	2	Moderately
GSM437273	1800.986	0	0	1800.986	NA	NA	61	Female	3	Well
GSM437274	1447.89	1	1	1247.671	NA	NA	56	Male	3	NA
GSM437275	1800.986	0	0	1800.986	NA	NA	57	Female	3	Moderately
GSM437276	1816.767	0	1	1806.904	NA	NA	74	Female	3	Moderately
GSM437277	1712.219	0	0	1712.219	NA	NA	52	Male	3	Moderately
GSM437278	1675.726	0	0	1675.726	NA	NA	70	Female	2	Moderately
GSM437280	1642.192	0	0	1642.192	NA	NA	84	Male	3	Moderately
GSM437281	1738.849	0	0	1738.849	NA	NA	59	Male	2	NA
GSM437283	1793.096	0	0	1793.096	NA	NA	66	Female	1	Moderately
GSM437284	1872	0	0	1872	NA	NA	55	Male	1	NA
GSM437285	1635.288	0	0	1635.288	NA	NA	81	Female	1	Moderately
GSM437286	108.4932	1	1	0	NA	NA	23	Female	4	NA
GSM437287	1483.397	0	0	54.24658	NA	NA	69	Male	2	NA
GSM437288	1925.26	0	0	88.76712	NA	NA	63	Male	2	NA
GSM437289	1506.082	0	0	14.79452	NA	NA	47	Male	3	NA
GSM437290	925.1507	1	1	881.7534	NA	NA	62	Male	4	NA
GSM437291	1747.726	0	0	1628.384	NA	NA	72	Male	2	NA
GSM437292	1229.918	1	1	1048.438	NA	NA	88	Female	4	NA
GSM437293	244.6027	1	1	0	NA	NA	29	Female	4	NA
GSM437294	1563.288	0	0	1382.795	NA	NA	74	Female	3	NA
GSM437295	156.8219	1	1	0	NA	NA	49	Male	4	NA
GSM437296	3344.548	0	0	1363.068	NA	NA	51	Female	3	NA
GSM437297	234.7397	1	0	234.7397	NA	NA	78	Female	3	Poorly
GSM437298	2058.411	0	0	1918.356	NA	NA	67	Male	2	NA
GSM437299	2041.644	0	0	2041.644	NA	NA	72	Male	2	Moderately
GSM437300	1504.11	0	0	1504.11	NA	NA	61	Male	3	Moderately
GSM437301	2125.479	0	1	541.4795	NA	NA	42	Male	4	Moderately
GSM437302	2229.041	0	1	0	NA	NA	57	Female	4	Moderately
GSM437303	1393.644	0	0	1393.644	NA	NA	51	Male	3	Moderately
GSM437304	2303.014	0	0	2303.014	NA	NA	54	Female	4	Moderately
GSM437305	702.2466	1	1	0	NA	NA	65	Male	4	Moderately
GSM437306	648.9863	1	0	648.9863	NA	NA	75	Male	2	Moderately
GSM437307	993.2055	1	0	993.2055	NA	NA	94	Female	2	Moderately
GSM437308	2075.178	0	1	0	NA	NA	78	Female	4	Moderately
GSM437309	1409.425	0	0	1409.425	NA	NA	63	Female	3	Poorly
GSM437310	1597.808	0	0	159.7808	NA	NA	57	Female	2	NA
GSM437311	1625.425	0	0	1493.26	NA	NA	56	Female	3	NA
GSM437312	1220.055	0	0	1220.055	NA	NA	47	Male	3	Moderately
GSM437313	1222.027	0	0	1222.027	NA	NA	51	Male	2	Moderately
GSM437314	415.2329	1	1	116.3836	NA	NA	80	Female	3	Moderately
GSM437315	2113.644	0	0	2113.644	NA	NA	54	Female	3	Moderately
GSM437317	46.35616	1	1	0	NA	NA	77	Female	4	Poorly
GSM437318	529.6438	1	1	0	NA	NA	56	Male	4	Moderately
GSM437319	379.726	1	1	0	NA	NA	38	Female	4	Moderately
GSM437320	207.1233	1	1	0	NA	NA	64	Female	4	Moderately
GSM437321	975.4521	1	1	0	NA	NA	62	Female	4	Moderately
GSM437322	484.274	1	1	0	NA	NA	60	Female	4	Moderately
GSM437323	12.82192	1	0	12.82192	NA	NA	93	Male	2	Moderately
GSM437324	1242.74	0	0	1242.74	NA	NA	69	Male	2	Moderately
GSM437093	4276.5	0	0	4276.5	0	4276.5	73	Male	1	Moderately
GSM437094	3681.6	0	0	3681.6	0	3681.6	63	Male	1	Well
GSM437095	868.8	1	0	868.8	0	868.8	51	Male	1	Moderately
GSM437097	1785.9	0	0	1785.9	0	1785.9	50	Male	1	Moderately
GSM437098	2064.3	1	1	810.6	1	2064.3	63	Female	1	Moderately
GSM437099	2468.7	0	0	2468.7	0	2468.7	66	Male	1	Well
GSM437101	1976.4	1	0	1976.4	0	1976.4	88	Male	1	Moderately
GSM437103	494.1	1	0	494.1	0	494.1	80	Female	1	Moderately
GSM437104	2692.5	0	0	2508	0	2692.5	62	Male	1	Moderately
GSM437105	2282.1	0	0	2282.1	0	2282.1	82	Male	1	Moderately
GSM437106	2034.6	0	0	2034.6	0	2034.6	78	Female	1	Moderately
GSM437107	1567.2	0	0	1567.2	0	1567.2	76	Male	1	Well
GSM437108	1923	0	0	1923	0	1923	87	Female	1	Moderately
GSM437109	1653.9	0	0	1653.9	0	1653.9	74	Female	1	Moderately
GSM437110	1733.7	0	0	1733.7	0	1733.7	55	Male	1	Moderately
GSM437112	1313.7	0	0	1313.7	0	1313.7	86	Female	1	Moderately
GSM437114	109.2	0	0	109.2	0	109.2	78	Male	1	Moderately
GSM437115	1097.7	0	0	718.8	0	1097.7	57	Male	1	Well
GSM437116	600.6	0	0	600.6	0	600.6	81	Male	1	Moderately
GSM437117	3557.4	0	0	3557.4	0	3557.4	74	Female	2	Moderately
GSM437120	3818.7	0	0	3323.7	0	3818.7	43	Female	2	Moderately
GSM437121	3618.6	0	1	829.2	0	3618.				

Table 53: The clinical information of GSE39582 dataset									
Sample	OS time	RFS time	RFS	Age	Gender	Stage	T Stage	N Stage	M Stage
GSM97195270	1	0	1	36.4	Female	4	T3	N2	M1
GSM97196960	1	30	1	39.2	Female	4	T3	N1	M1
GSM971962190	0	2190	0	60.9	Male	3	T4	N2	M0
GSM97196600	1	510	1	78.2	Male	2	T3	N0	M0
GSM971963660	0	2790	1	44.9	Female	2	T4	N0	M0
GSM971931880	0	1380	0	24.9	Male	2	T3	N0	M0
GSM971931680	0	1680	0	40.7	Female	4	T4	N1	M1
GSM971931380	0	1380	0	41.9	Female	2	T3	N0	M0
GSM971931470	0	1470	0	40.8	Female	3	T4	N1	M0
GSM971931440	0	1440	0	81.8	Male	2	T3	N0	M0
GSM971932040	1	1260	0	79.3	Male	3	T4	N2	M0
GSM971932040	0	2040	0	66.3	Male	2	T3	N0	M0
GSM971932040	0	2040	0	66.7	Male	2	T3	N0	M0
GSM97193540	1	480	1	77.2	Female	4	T4	N1	M1
GSM97193720	1	450	1	71.3	Male	1	T2	N0	M0
GSM97193750	0	750	0	61.8	Female	2	T4	N0	M0
GSM971932280	0	2280	0	63	Female	3	T3	N1	M0
GSM971932670	0	2670	0	72	Male	3	T3	N2	M0
GSM971932670	0	270	1	76.4	Female	3	T3	N2	M0
GSM971932670	1	0	1	64.9	Female	4	T3	N2	M1
GSM971932670	0	2670	0	62.6	Male	4	T3	N1	M1
GSM971932690	1	0	1	67.5	Female	4	T3	N0	M1
GSM971932690	1	60	0	71	Male	4	T3	N2	M1
GSM971932690	1	60	1	67.3	Male	4	T4	N2	M1
GSM971932690	1	60	1	68.1	Male	4	T3	N2	M1
GSM97193500	1	540	1	75.3	Female	4	T4	N1	M1
GSM971932730	0	2730	0	92.4	Female	2	T3	N0	M0
GSM971932730	1	420	1	74.5	Female	2	T3	N0	M0
GSM971931290	0	1290	0	73	Female	3	T3	N2	M0
GSM971931750	1	630	1	54	Male	3	T3	N2	M0
GSM971931110	1	150	1	58	Female	3	T3	N3	M0
GSM971932460	0	2460	0	76	Female	3	T3	N2	M0
GSM971932020	1	960	1	75	Male	3	T3	N2	M0
GSM971932820	0	2820	0	76	Female	3	T3	N2	M0
GSM971932340	0	2340	0	40	Female	3	T3	N2	M0
GSM971931080	0	1080	0	58	Male	3	T4	N2	M0
GSM971931800	0	1800	0	64	Female	2	T3	N0	M0
GSM971931500	0	1500	0	77	Male	2	T3	N0	M0
GSM971931500	0	1500	0	67	Female	2	T3	N0	M0
GSM971931560	1	30	0	41	Male	2	T3	N0	M0
GSM971931560	1	60	1	65	Male	4	T4	N0	M1
GSM971931740	0	630	1	54	Male	2	T3	N0	M0
GSM97193490	0	990	0	93	Female	2	T3	N0	M0
GSM97193570	0	570	0	75	Female	2	T3	N0	M0
GSM97193840	1	0	1	34	Female	4	T3	N0	M1
GSM97193870	0	870	0	55	Male	2	T2	N0	M0
GSM97193870	0	780	0	82	Male	2	T3	N0	M0
GSM971932790	0	2790	0	31	Female	2	T4	N0	M0
GSM97193870	1	780	0	70	Male	2	T3	N0	M0
GSM971931770	0	1770	0	76	Female	2	T3	N0	M0
GSM971931290	1	1290	0	76	Female	2	T4	N0	M0
GSM971931290	1	0	1	60	Male	4	T4	N0	M1
GSM971935490	1	5490	0	83	Female	2	T3	N0	M0
GSM97193660	1	90	1	44	Male	2	T3	N0	M0
GSM97193160	0	5160	0	70	Female	2	T4	N0	M0
GSM971931930	1	780	1	58	Female	2	T3	N0	M0
GSM971935040	0	5040	0	44	Male	2	T3	N0	M0
GSM971933960	1	3570	1	75	Female	2	T3	N0	M0
GSM971933810	0	3810	0	65	Female	2	T3	N0	M0
GSM971932370	0	2370	0	73	Female	2	T3	N0	M0
GSM971932610	0	2610	0	68	Female	2	T3	N0	M0
GSM971932410	0	1410	0	76	Female	2	T3	N0	M0
GSM971931830	0	1830	0	67	Female	2	T3	N0	M0
GSM971932010	0	2010	0	50	Male	2	T3	N0	M0
GSM971932010	1	360	1	64	Male	3	T4	N1	M0
GSM971932010	1	450	0	66	Female	3	T4	N2	M0
GSM971931750	0	840	1	66	Male	3	T3	N2	M0
GSM971931230	0	1230	0	72	Female	3	T3	N3	M0
GSM971931960	0	960	0	53	Male	3	T2	N3	M0
GSM971931800	1	270	1	96	Female	3	T3	N1	M0
GSM971931800	1	1800	0	76	Male	3	T3	N1	M0
GSM971931080	0	1080	0	63	Male	3	T3	N2	M0
GSM971931560	0	390	1	96	Male	3	T3	N2	M0
GSM971931960	1	540	1	64	Female	3	T3	N1	M0
GSM971931800	1	630	1	63	Female	3	T3	N2	M0
GSM971931960	1	630	1	64	Female	3	T3	N2	M0
GSM971931800	1	540	1	73	Female	3	T3	N1	M0
GSM971931800	1	330	1	59	Female	3	T3	N3	M0
GSM971931800	1	60	1	79	Female	3	T3	N2	M0
GSM971931900	1	570	1	64	Female	3	T3	N2	M0
GSM971932130	0	2130	0	53	Male	2	T3	N0	M0
GSM971932250	0	2250	0	49	Female	2	T3	N0	M0
GSM971932040	0	420	1	64	Female	2	T3	N0	M0
GSM971932550	0	2550	0	66	Female	2	T3	N0	M0
GSM971932790	0	2790	0	64	Male	2	T3	N0	M0
GSM971931650	0	1650	0	76	Male	2	T4	N0	M0
GSM971932580	0	2580	0	87	Female	2	T3	N0	M0
GSM971931830	1	1830	0	87	Female	2	T3	N0	M0
GSM971931590	1	810	1	64	Male	3	T3	N+	M0
GSM971931380	1	1210	1	68	Male	2	T3	N+	M0
GSM971931510	0	1680	1	64	Male	2	T4	N0	M0
GSM971931360	0	3630	0	63	Female	2	T3	N0	M0
GSM971931480	0	1980	0	60	Male	3	T3	N2	M0
GSM971931380	0	3810	0	59	Male	3	T3	N1	M0
GSM971931360	0	3600	0	45	Female	3	T3	N2	M0
GSM971932310	0	1170	1	73	Male	2	T3	N0	M0
GSM971932190	0	2190	0	67	Female	3	T2	N2	M0
GSM971931900	0	3900	0	70	Female	3	T4	N1	M0
GSM971931150	1	120	1	88	Female	2	T4	N1	M0
GSM971932190	0	2910	0	75	Male	3	T3	N1	M0
GSM971931290	1	840	1	83	Female	3	T3	N1	M0
GSM971931080	1	1050	1	85	Female	3	T4	N2	M0
GSM971931660	1	630	1	71	Male	2	N/A	N/A	N/A
GSM971932010	1	600	1	69	Female	3	N/A	N/A	N/A
GSM971931540	1	510	1	77	Female	2	N/A	N/A	N/A
GSM971931720	1	570	1	66	Male	2	N/A	N/A	N/A
GSM971931020	1	690	1	69	Male	3	N/A	N/A	N/A
GSM971931740	1	690	1	53	Male	2	T4	N0	M0
GSM971931960	1	330	1	62	Female	3	N/A	N/A	N/A
GSM971931170	1	120	1	70	Female	2	N/A	N/A	N/A
GSM971931410	1	620	1	58	Female	3	N/A	N/A	N/A
GSM971931760	0	5760	0	63	Male	3	T4	N+	M0
GSM971931320	0	3240	0	68	Male	2	T3	N0	M0
GSM971931470	0	4740	0	72	Female	2	T3	N0	M0
GSM971932190	0	2190	0	51	Female	3	T3	N1	M0
GSM971932490	0	2490	0	43	Male	3	T3	N2	M0
GSM971931500	0	1500	0	69	Female	2	T3	N0	M0
GSM971931500	0	1980	0	73	Male	3	T3	N2	M0
GSM971931620	0	1620	0	61	Male	2	T3	N0	M0
GSM971932010	0	2010	0	78	Male	3	T3	N2	M0
GSM9719321050	1	210	1	76	Male	2	N/A	N/A	N/A
GSM971932390	1	0	1	63	Male	4	T4	N2	M1
GSM971932390	1	0	1	54	Male	4	T3	N2	M1
GSM971931380	1	0	1	50	Male	4	T3	N+	M1
GSM971932130	1	0	1	71	Female	4	T3	N0	M1
GSM97193211410	0	1410	0	73	Female	3	T4	N2	M0
GSM97193212820	0	0	1	45	Female	4	T3	N2	M1
GSM97193221200	0	0	1	73	Male	4	T3	N1	M1
GSM9719322750	1	600	1	74	Male	3	T4	N2	M0
GSM971932310	0	810	0	55	Female	3	T3	N1	M0
GSM9719323420	0	420	0	54	Male	4	T3	N1	M1
GSM9719323630	0	630	0	69	Male	4	T3	N2	M0
GSM9719323300	1	300	0	79	Male	4	T3	N1	M1
GSM9719323210	0	210	0	57	Female	3	T2	N1	M0
GSM9719324420	0	420	0	67	Female	4	T3	N1	M1
GSM9719324420	0	420	0	51	Female	1	T1	N0	M0
GSM9719324180	0	180	0	79	Male	2	T4	N0	M0
GSM9719324420	0	420	0	58	Male	2	T3	N0	M0
GSM97193225210	1	210	0	57	Male	4	T4	N1	M1
GSM97193225420	0	270	1	77	Female	4	T3	N0	M1
GSM97193225150	0	150	0	81	Female	2	T3	N0	M0
GSM9719322570	0	390	1	63	Female	4	T4	N1	M1
GSM9719322870	0	870	0	72	Female	2	T4	N0	M0
GSM9719322870	0	390	0	70	Male	4	T3	N2	M1
GSM97193221500	0	150	0	88	Female	2	T4	N0	MX
GSM971932261800	1	1800	0	78	Female	3	T3	N1	M0
GSM9719326600	1	600	0	56	Male	4	T4	N2	M1
GSM971932262370	0	2370	0	70	Male	1	T2	N0	M0
GSM97193227420	1	390	1	92	Male	3	T4	N1	M0
GSM97193227170	0	1710	0	91	Female	3	T4	N2	M0
GSM97193227120	1	90	1	76	Male	2	T4	N0	M0
GSM97193221290	0	1290	0	59	Female	3	T3	N2	M0
GSM971932281380	1	1380	0	79	Female	2	T4	N0	M0
GSM971932281530	0	1530	0	79.4	Female	1	T2	N0	M0
GSM971932281530	0	1530	0	65	Male	2	T3	N0	M0
GSM971932281050	1	1050	0	53	Male	4	T4	N1	M1
GSM971932281500	0	1500	0	NA	Male	1	T2	N0	M0
GSM97									

Table S4. A list of cell marker genes

Cells	marker genes
cancer stem cell	CD24
endothelial cell	CDH5, PLVAP, VWF, CLDN5
Fibroblasts	COL1A1, COL1A2, DCN
T cells	CD2, CD3D, CD3E, CD3G
B cells	CD79A, CD79B
Myeloid cells	CD14, LYZ
Mast cells	GATA2, TPSAB1, TPSB2
NK	KLRF1, FGFBP2, KLRC1

Table S5. The DEGs of eight cell types

p_val	avg_logFC	pct.1	pct.2	p_val_adj	cluster	gene	pct.diff
0	2.295997	1	0.863	0	B cells	CD74	0.137
0	2.2336	0.981	0.689	0	B cells	CD79A	0.292
0	2.195389	0.991	0.729	0	B cells	HLA-DRA	0.262
0	2.116231	0.973	0.826	0	B cells	CD83	0.147
0	1.679801	0.653	0.427	0	B cells	IGKV4-1	0.226
0	1.667275	0.984	0.753	0	B cells	HLA-DRB	0.231
0	1.601128	0.951	0.66	0	B cells	HLA-DQA	0.291
0	1.55215	0.987	0.743	0	B cells	HLA-DPA	0.244
0	1.538034	0.952	0.649	0	B cells	HLA-DQB	0.303
0	1.534164	0.974	0.71	0	B cells	HLA-DPB	0.264
0	1.438705	0.821	0.55	0	B cells	IGHM	0.271
0	1.368449	0.921	0.64	0	B cells	IRF8	0.281
0	1.278978	0.979	0.891	0	B cells	KLF2	0.088
0	1.169599	0.911	0.693	0	B cells	LY9	0.218
0	1.166006	0.976	0.889	0	B cells	HERPUD1	0.087
0	1.159173	0.833	0.662	0	B cells	VPREB3	0.171
0	1.107408	0.894	0.682	0	B cells	CD79B	0.212
0	1.07549	0.935	0.651	0	B cells	HLA-DRB	0.284
0	1.044021	0.882	0.671	0	B cells	HLA-DMA	0.211
0	1.010721	0.838	0.684	0	B cells	MEF2C	0.154
0	0.983856	0.9	0.728	0	B cells	NCF1	0.172
0	0.903459	0.839	0.681	0	B cells	LINC0092	0.158
0	0.8961	0.965	0.831	0	B cells	CD55	0.134
0	0.846591	0.802	0.466	0	B cells	POU2AF1	0.336
0	0.840425	0.969	0.919	0	B cells	NR4A1	0.05
0	0.818431	0.762	0.547	0	B cells	SMIM14	0.215
0	0.811881	0.845	0.76	0	B cells	LYN	0.085
0	0.777389	0.905	0.774	0	B cells	SYNGR2	0.131
0	0.76606	0.914	0.819	0	B cells	MARCKSI	0.095
0	0.75379	0.83	0.646	0	B cells	ARHGAP2	0.184
0	0.732164	0.952	0.813	0	B cells	LIMD2	0.139
0	0.731386	0.96	0.886	0	B cells	NR4A2	0.074
0	0.73054	0.741	0.637	0	B cells	ADAM28	0.104
0	0.709496	0.804	0.578	0	B cells	CD40	0.226
0	0.697937	0.767	0.64	0	B cells	HVCN1	0.127
0	0.692632	0.766	0.59	0	B cells	POU2F2	0.176
0	0.687188	0.757	0.704	0	B cells	LY86	0.053
0	0.681705	0.838	0.707	0	B cells	SNX2	0.131
0	0.659091	0.799	0.646	0	B cells	AFF3	0.153
0	0.648468	0.84	0.68	0	B cells	RASGEF1	0.16
0	0.64785	0.794	0.668	0	B cells	HLA-DMB	0.126
0	0.622331	0.761	0.613	0	B cells	SWAP70	0.148
0	0.610756	0.76	0.682	0	B cells	BLNK	0.078
0	0.586323	0.818	0.648	0	B cells	IFT57	0.17
0	0.584539	0.775	0.629	0	B cells	ST6GAL1	0.146
0	0.570446	0.718	0.565	0	B cells	GNG7	0.153
0	0.527792	0.708	0.648	0	B cells	TCF4	0.06
0	0.51997	0.822	0.711	0	B cells	CD24	0.111
0	0.510563	0.786	0.636	0	B cells	ORAI2	0.15
0	0.500815	0.824	0.706	0	B cells	BACH2	0.118
0	0.480611	0.808	0.69	0	B cells	TSPAN3	0.118
0	0.471161	0.806	0.656	0	B cells	TPD52	0.15
0	0.46891	0.926	0.827	0	B cells	RNASET2	0.099
0	0.454638	0.757	0.623	0	B cells	STX7	0.134

0	0.454325	0.87	0.779	0	B cells	ALG13	0.091
0	0.448118	0.703	0.608	0	B cells	BASP1	0.095
0	0.444221	0.726	0.684	0	B cells	RNASE6	0.042
0	0.439545	0.746	0.646	0	B cells	SH3BP5	0.1
0	0.412709	0.734	0.633	0	B cells	TSPAN13	0.101
0	0.360609	0.769	0.647	0	B cells	LHPP	0.122
0	0.331958	0.723	0.575	0	B cells	DAPP1	0.148
0	0.327032	0.768	0.595	0	B cells	BACH1	0.173
0	0.313198	0.76	0.666	0	B cells	KDM4B	0.094
0	0.312391	0.723	0.513	0	B cells	HHEX	0.21
0	0.29702	0.807	0.691	0	B cells	PARVB	0.116
1.76E-303	0.321696	0.627	0.408	3.52E-300	B cells	CIITA	0.219
4.43E-302	0.446323	0.671	0.572	8.87E-299	B cells	BTK	0.099
2.57E-296	0.440567	0.722	0.649	5.14E-293	B cells	SYVN1	0.073
1.25E-287	0.529819	0.711	0.553	2.50E-284	B cells	STAG3	0.158
7.94E-284	0.347114	0.72	0.615	1.59E-280	B cells	SCPEP1	0.105
5.54E-282	0.404615	0.751	0.765	1.11E-278	B cells	CXXC5	-0.014
5.87E-276	0.416981	0.855	0.758	1.17E-272	B cells	TENT5C	0.097
6.19E-274	0.373553	0.756	0.655	1.24E-270	B cells	GGA2	0.101
6.16E-269	0.273642	0.999	0.995	1.23E-265	B cells	EEF1A1	0.004
1.23E-261	0.50093	0.728	0.716	2.47E-258	B cells	LAT2	0.012
2.95E-259	0.365875	0.782	0.67	5.90E-256	B cells	CTSS	0.112
1.51E-258	0.34221	0.745	0.656	3.03E-255	B cells	IFNGR2	0.089
1.92E-258	0.275794	0.668	0.487	3.85E-255	B cells	CD200	0.181
1.03E-253	0.323253	0.861	0.787	2.05E-250	B cells	KDM6B	0.074
3.27E-253	0.336071	0.839	0.789	6.54E-250	B cells	ID3	0.05
4.97E-245	2.23224	0.659	0.539	9.95E-242	B cells	IGKC	0.12
2.38E-236	0.410309	0.966	0.894	4.77E-233	B cells	CD52	0.072
3.59E-235	0.423463	0.781	0.711	7.19E-232	B cells	CTSH	0.07
7.32E-233	0.398414	0.579	0.343	1.46E-229	B cells	IGLC3	0.236
9.59E-231	0.417096	0.852	0.82	1.92E-227	B cells	CHCHD10	0.032
2.87E-230	0.509894	0.659	0.648	5.74E-227	B cells	1-Mar	0.011
3.13E-214	0.283267	0.725	0.595	6.27E-211	B cells	AC007384	0.13
3.62E-211	0.269254	0.693	0.566	7.24E-208	B cells	PLEKHG1	0.127
6.50E-209	0.353459	0.914	0.878	1.30E-205	B cells	ODC1	0.036
1.30E-202	0.397595	0.739	0.665	2.61E-199	B cells	BCL2A1	0.074
1.99E-200	0.300324	0.639	0.532	3.98E-197	B cells	FCHSD2	0.107
4.68E-197	0.343995	0.87	0.809	9.36E-194	B cells	ANKRD37	0.061
2.49E-192	0.482003	0.878	0.812	4.98E-189	B cells	REL	0.066
8.38E-191	0.453374	0.718	0.719	1.68E-187	B cells	BCAS4	-0.001
1.47E-189	0.320235	0.83	0.75	2.94E-186	B cells	RBKS	0.08
1.62E-187	0.318162	0.762	0.724	3.25E-184	B cells	NFKBID	0.038
1.82E-186	0.318489	0.897	0.852	3.65E-183	B cells	RHOB	0.045
1.49E-173	0.301294	0.73	0.698	2.98E-170	B cells	NCOA3	0.032
2.90E-172	0.361479	0.944	0.916	5.80E-169	B cells	RPL22L1	0.028
1.01E-168	0.389829	0.653	0.648	2.02E-165	B cells	SYK	0.005
4.72E-164	0.467262	0.665	0.725	9.43E-161	B cells	RALGPS2	-0.06
8.66E-160	0.319965	0.686	0.639	1.73E-156	B cells	PRKCB	0.047
1.54E-158	0.293155	0.716	0.672	3.08E-155	B cells	LRMP	0.044
2.35E-157	1.572547	0.577	0.471	4.70E-154	B cells	IGHA1	0.106
3.56E-156	0.379716	0.889	0.806	7.12E-153	B cells	LTB	0.083
5.83E-156	0.270422	0.846	0.704	1.17E-152	B cells	BIRC3	0.142
2.36E-154	0.282873	0.655	0.611	4.71E-151	B cells	LINC01480	0.044
1.99E-152	0.328268	0.705	0.673	3.97E-149	B cells	KLHL6	0.032
7.09E-152	0.334166	0.996	0.957	1.42E-148	B cells	DUSP1	0.039
2.77E-147	0.3916	0.991	0.94	5.55E-144	B cells	CD69	0.051

4.10E-138	0.320304	0.913	0.785	8.20E-135	B cells	UCP2	0.128
1.07E-136	0.284816	0.571	0.492	2.13E-133	B cells	CPNE5	0.079
4.03E-125	0.267595	0.973	0.95	8.06E-122	B cells	FOSB	0.023
7.72E-125	0.328681	0.853	0.784	1.54E-121	B cells	RGS2	0.069
1.04E-119	0.32242	0.727	0.683	2.08E-116	B cells	FAM3C	0.044
1.70E-118	0.284497	0.934	0.876	3.40E-115	B cells	SLC2A3	0.058
3.97E-118	0.883528	0.672	0.649	7.94E-115	B cells	MZB1	0.023
7.06E-114	0.556708	0.571	0.535	1.41E-110	B cells	DERL3	0.036
2.93E-112	0.273339	0.798	0.754	5.87E-109	B cells	MAP3K8	0.044
2.99E-109	3.574624	0.556	0.482	5.99E-106	B cells	JCHAIN	0.074
1.67E-107	0.328931	0.77	0.765	3.33E-104	B cells	PTPN6	0.005
1.94E-98	0.301992	0.956	0.923	3.88E-95	B cells	ZFP36L1	0.033
4.43E-94	0.460261	0.741	0.724	8.87E-91	B cells	UBE2J1	0.017
3.86E-90	0.265925	0.863	0.813	7.72E-87	B cells	PDE4B	0.05
2.35E-84	0.302173	0.825	0.755	4.70E-81	B cells	CHMP1B	0.07
1.18E-73	0.283752	0.768	0.757	2.35E-70	B cells	SELL	0.011
2.29E-66	0.302438	0.537	0.499	4.59E-63	B cells	FGD2	0.038
1.28E-65	0.407197	0.633	0.585	2.55E-62	B cells	PRPSAP2	0.048
1.04E-46	0.277591	0.631	0.679	2.09E-43	B cells	SEL1L3	-0.048
6.17E-44	0.291797	0.53	0.558	1.23E-40	B cells	STAP1	-0.028
9.13E-22	0.328141	0.823	0.896	1.83E-18	B cells	SSR4	-0.073
0	2.879204	0.982	0.792	0	cancer ster	KRT18	0.19
0	2.634373	0.966	0.777	0	cancer ster	PHGR1	0.189
0	2.372175	0.904	0.751	0	cancer ster	TFF3	0.153
0	1.99778	0.99	0.916	0	cancer ster	S100A6	0.074
0	1.946285	0.898	0.797	0	cancer ster	SOX4	0.101
0	1.592975	0.948	0.832	0	cancer ster	HSPB1	0.116
0	1.521645	0.87	0.777	0	cancer ster	PHLDA2	0.093
0	1.379261	0.831	0.779	0	cancer ster	PERP	0.052
0	1.332617	0.897	0.894	0	cancer ster	NEAT1	0.003
0	1.302628	0.971	0.938	0	cancer ster	MIF	0.033
0	1.260687	0.821	0.673	0	cancer ster	AC103702	0.148
0	1.242663	0.973	0.999	0	cancer ster	MALAT1	-0.026
0	1.235122	0.878	0.767	0	cancer ster	ANO9	0.111
0	1.156583	0.817	0.769	0	cancer ster	RRBP1	0.048
0	1.143234	0.882	0.778	0	cancer ster	QTRT1	0.104
0	1.138477	0.891	0.829	0	cancer ster	LGALS3	0.062
0	1.051631	0.904	0.851	0	cancer ster	GSTP1	0.053
0	1.044237	0.786	0.821	0	cancer ster	ID1	-0.035
0	1.030806	0.897	0.848	0	cancer ster	TXN	0.049
0	0.966509	0.877	0.822	0	cancer ster	H2AFJ	0.055
0	0.956019	0.795	0.793	0	cancer ster	HOOK2	0.002
0	0.912594	0.841	0.789	0	cancer ster	TNFSF9	0.052
0	0.90943	0.824	0.688	0	cancer ster	EPS8L2	0.136
0	0.896661	0.822	0.738	0	cancer ster	ASL	0.084
0	0.895722	0.927	0.925	0	cancer ster	S100A10	0.002
0	0.893614	0.796	0.708	0	cancer ster	HIST1H2A	0.088
0	0.8845	0.837	0.72	0	cancer ster	CC2D1A	0.117
0	0.847361	0.838	0.739	0	cancer ster	COMTD1	0.099
0	0.841861	0.864	0.742	0	cancer ster	CPNE7	0.122
0	0.841816	0.788	0.755	0	cancer ster	TNFRSF100	0.033
0	0.835825	0.793	0.717	0	cancer ster	CD9	0.076
0	0.826738	0.851	0.726	0	cancer ster	SLC39A4	0.125
0	0.797651	0.995	0.997	0	cancer ster	RPS18	-0.002
0	0.794514	0.732	0.715	0	cancer ster	STARD10	0.017
0	0.78071	0.865	0.78	0	cancer ster	CYC1	0.085

0	0.765345	0.895	0.828	0	cancer ster	CEBPD	0.067
0	0.76424	0.8	0.638	0	cancer ster	TMEM63A	0.162
0	0.735054	0.765	0.724	0	cancer ster	TRIB1	0.041
0	0.728303	0.712	0.674	0	cancer ster	MUC12	0.038
0	0.724465	0.767	0.763	0	cancer ster	TSC22D1	0.004
0	0.650921	0.712	0.697	0	cancer ster	ABHD11	0.015
0	0.647594	0.749	0.743	0	cancer ster	STAP2	0.006
0	0.64199	0.851	0.713	0	cancer ster	CD320	0.138
0	0.641173	0.722	0.713	0	cancer ster	BACE2	0.009
0	0.634065	0.809	0.659	0	cancer ster	SLC22A18	0.15
0	0.628752	0.786	0.708	0	cancer ster	HIST1H2A	0.078
0	0.6197	0.76	0.7	0	cancer ster	AC245014	0.06
0	0.600208	0.791	0.667	0	cancer ster	PCBD1	0.124
0	0.575193	0.797	0.688	0	cancer ster	AC087239	0.109
0	0.572397	0.734	0.669	0	cancer ster	DGAT1	0.065
0	0.567344	0.827	0.785	0	cancer ster	NTHL1	0.042
0	0.561393	0.781	0.745	0	cancer ster	HIST1H2A	0.036
0	0.552848	0.737	0.704	0	cancer ster	FTX	0.033
0	0.549912	0.799	0.743	0	cancer ster	CEBPG	0.056
0	0.547787	0.73	0.662	0	cancer ster	AC015912	0.068
0	0.547177	0.76	0.683	0	cancer ster	MROH1	0.077
0	0.536682	0.847	0.756	0	cancer ster	BOP1	0.091
0	0.511973	0.789	0.714	0	cancer ster	PCK2	0.075
0	0.473709	0.754	0.714	0	cancer ster	MGAT4B	0.04
0	0.460899	0.8	0.749	0	cancer ster	EIF3B	0.051
0	0.43696	0.797	0.761	0	cancer ster	IER5L	0.036
0	0.415516	0.806	0.712	0	cancer ster	F12	0.094
0	0.405058	0.716	0.636	0	cancer ster	HIST1H2B	0.08
0	0.391562	0.816	0.74	0	cancer ster	SLC52A2	0.076
0	0.313769	0.773	0.706	0	cancer ster	EXOSC4	0.067
0	0.307094	0.744	0.625	0	cancer ster	HIST1H2B	0.119
0	0.29996	0.738	0.621	0	cancer ster	NUDT14	0.117
0	0.299264	0.773	0.736	0	cancer ster	COL9A3	0.037
0	0.280242	0.798	0.675	0	cancer ster	SLC38A5	0.123
0	0.273157	0.786	0.758	0	cancer ster	HAGHL	0.028
2.10E-304	0.679751	0.838	0.794	4.19E-301	cancer ster	TIMM13	0.044
5.69E-298	0.60536	0.728	0.682	1.14E-294	cancer ster	ITPR3	0.046
2.20E-290	0.361647	0.743	0.724	4.41E-287	cancer ster	PMEPA1	0.019
7.29E-290	0.307806	0.755	0.68	1.46E-286	cancer ster	AIMP2	0.075
1.00E-286	0.454529	0.743	0.745	2.01E-283	cancer ster	PLEKHA5	-0.002
9.48E-283	0.619802	0.709	0.714	1.90E-279	cancer ster	UGDH	-0.005
1.24E-282	0.568037	0.729	0.718	2.49E-279	cancer ster	LMO7	0.011
5.37E-281	0.391201	0.744	0.736	1.07E-277	cancer ster	DDX11	0.008
7.09E-275	1.013089	0.778	0.799	1.42E-271	cancer ster	IER3	-0.021
5.33E-273	0.786225	0.718	0.761	1.07E-269	cancer ster	MYO7B	-0.043
4.20E-270	0.374224	0.799	0.704	8.39E-267	cancer ster	UQCC2	0.095
1.43E-268	0.652818	0.72	0.727	2.86E-265	cancer ster	CD24	-0.007
4.31E-266	0.424939	0.715	0.723	8.63E-263	cancer ster	HIST1H2A	-0.008
5.35E-264	0.651	0.974	0.978	1.07E-260	cancer ster	GAPDH	-0.004
9.13E-264	0.406839	0.99	0.994	1.83E-260	cancer ster	TMSB10	-0.004
1.61E-263	0.75695	0.896	0.884	3.23E-260	cancer ster	IFITM3	0.012
2.39E-263	0.332236	0.802	0.779	4.79E-260	cancer ster	NOP16	0.023
7.76E-260	0.570445	0.735	0.704	1.55E-256	cancer ster	KCNQ1OT	0.031
1.61E-246	0.315834	0.752	0.726	3.22E-243	cancer ster	STXBP2	0.026
2.90E-245	0.360417	0.838	0.762	5.80E-242	cancer ster	CCND2	0.076
2.59E-240	0.434845	0.71	0.693	5.18E-237	cancer ster	KNOP1	0.017

1.38E-238	0.452207	0.79	0.751	2.75E-235	cancer ster	ZNF593	0.039
5.60E-237	0.787927	0.769	0.718	1.12E-233	cancer ster	PLEC	0.051
1.02E-234	0.343368	0.742	0.661	2.04E-231	cancer ster	POLD2	0.081
1.58E-232	0.305416	0.675	0.705	3.15E-229	cancer ster	NEBL	-0.03
3.09E-231	0.717453	0.919	0.903	6.19E-228	cancer ster	S100A11	0.016
8.70E-220	0.411515	0.805	0.756	1.74E-216	cancer ster	GK	0.049
2.05E-216	0.302603	0.725	0.695	4.11E-213	cancer ster	TARBP1	0.03
8.52E-216	0.66042	0.829	0.751	1.70E-212	cancer ster	SLC7A5	0.078
5.04E-215	0.632163	0.736	0.745	1.01E-211	cancer ster	SPINT2	-0.009
7.48E-214	0.635402	0.732	0.769	1.50E-210	cancer ster	EPS8	-0.037
1.11E-212	0.48643	0.671	0.674	2.21E-209	cancer ster	SPPL2B	-0.003
2.53E-212	0.286342	0.776	0.759	5.06E-209	cancer ster	DNMT1	0.017
2.23E-211	0.474841	0.77	0.751	4.46E-208	cancer ster	YWHAG	0.019
6.97E-210	0.429467	0.707	0.662	1.39E-206	cancer ster	MCRIP2	0.045
7.93E-209	0.55215	0.708	0.735	1.59E-205	cancer ster	NUAK2	-0.027
3.88E-207	0.326867	0.675	0.65	7.75E-204	cancer ster	PAXIP1-A	0.025
4.78E-207	0.345566	0.765	0.723	9.56E-204	cancer ster	USP38	0.042
2.04E-206	0.523259	0.755	0.782	4.07E-203	cancer ster	TRAP1	-0.027
9.89E-206	0.473287	0.717	0.721	1.98E-202	cancer ster	SLC19A2	-0.004
2.09E-201	0.556035	0.717	0.786	4.18E-198	cancer ster	HES1	-0.069
1.31E-196	0.524699	0.759	0.708	2.63E-193	cancer ster	ARL6IP1	0.051
4.90E-195	0.329927	0.77	0.771	9.80E-192	cancer ster	BRI3	-0.001
1.89E-194	0.267418	0.72	0.718	3.77E-191	cancer ster	HIST1H2B	0.002
3.30E-194	0.354889	0.787	0.751	6.61E-191	cancer ster	GGCT	0.036
6.75E-192	0.58663	0.691	0.726	1.35E-188	cancer ster	HIST1H4B	-0.035
2.28E-191	0.483727	0.667	0.669	4.56E-188	cancer ster	CDCA7	-0.002
6.19E-191	0.287706	0.799	0.773	1.24E-187	cancer ster	ZBTB10	0.026
3.52E-187	0.627303	0.831	0.814	7.03E-184	cancer ster	PRDX5	0.017
1.37E-186	0.417538	0.703	0.678	2.75E-183	cancer ster	DIAPH2	0.025
4.14E-184	0.82765	0.653	0.686	8.28E-181	cancer ster	ATP1B1	-0.033
1.65E-183	0.366876	0.731	0.758	3.29E-180	cancer ster	MCM7	-0.027
4.56E-181	0.513006	0.67	0.709	9.12E-178	cancer ster	HIST1H3J	-0.039
5.29E-180	0.327027	0.725	0.695	1.06E-176	cancer ster	CYB5A	0.03
4.08E-179	0.442599	0.64	0.64	8.15E-176	cancer ster	PCCA	0
1.61E-173	0.437646	0.805	0.714	3.21E-170	cancer ster	PHPT1	0.091
1.81E-167	0.418661	0.855	0.844	3.62E-164	cancer ster	CEBPB	0.011
9.57E-166	0.564968	0.728	0.758	1.91E-162	cancer ster	MPST	-0.03
1.18E-164	0.472189	0.72	0.766	2.36E-161	cancer ster	ICA1	-0.046
3.06E-162	0.62474	0.714	0.773	6.12E-159	cancer ster	ETS2	-0.059
7.27E-160	0.347997	0.675	0.663	1.45E-156	cancer ster	SBF2	0.012
1.87E-157	0.449986	0.659	0.689	3.75E-154	cancer ster	HILPDA	-0.03
1.76E-155	0.371047	0.728	0.701	3.52E-152	cancer ster	IARS	0.027
2.20E-153	0.316374	0.716	0.758	4.40E-150	cancer ster	PON2	-0.042
3.06E-150	0.29559	0.651	0.666	6.13E-147	cancer ster	HIST1H2A	-0.015
5.93E-149	0.478219	0.671	0.67	1.19E-145	cancer ster	HIST1H3H	0.001
6.20E-146	0.49152	0.68	0.695	1.24E-142	cancer ster	HIST1H3A	-0.015
1.56E-145	0.679398	0.653	0.701	3.12E-142	cancer ster	TPM1	-0.048
1.97E-142	0.44941	0.838	0.759	3.93E-139	cancer ster	DNPH1	0.079
1.04E-139	0.452946	0.672	0.643	2.08E-136	cancer ster	SQLC	0.029
1.27E-139	0.300235	0.696	0.705	2.53E-136	cancer ster	ILVBL	-0.009
1.11E-137	0.643829	0.815	0.863	2.22E-134	cancer ster	LMNA	-0.048
3.23E-137	0.268408	0.693	0.657	6.45E-134	cancer ster	UCHL3	0.036
8.62E-136	0.502093	0.862	0.862	1.72E-132	cancer ster	PPA1	0
7.09E-135	0.277829	0.667	0.667	1.42E-131	cancer ster	KIF9	0
1.06E-133	0.365159	0.809	0.792	2.12E-130	cancer ster	EIF6	0.017
1.61E-132	0.302882	0.649	0.647	3.22E-129	cancer ster	AC091271	0.002

6.55E-132	0.499928	0.843	0.784	1.31E-128	cancer ster	AL138963	0.059
1.88E-128	0.374739	0.706	0.701	3.76E-125	cancer ster	MAP1LC3	0.005
5.49E-127	0.431065	0.756	0.776	1.10E-123	cancer ster	AHCY	-0.02
2.90E-126	0.503455	0.647	0.69	5.80E-123	cancer ster	ASPH	-0.043
4.97E-125	0.560617	0.663	0.707	9.94E-122	cancer ster	AC023157	-0.044
8.37E-125	0.338535	0.712	0.709	1.67E-121	cancer ster	HIST1H2B	0.003
2.58E-123	0.711158	0.689	0.728	5.15E-120	cancer ster	HIST1H2A	-0.039
1.15E-122	0.511388	0.68	0.696	2.29E-119	cancer ster	AGPAT2	-0.016
3.05E-121	0.328516	0.701	0.692	6.11E-118	cancer ster	SH3YL1	0.009
3.15E-118	0.738873	0.885	0.878	6.31E-115	cancer ster	ATF3	0.007
3.93E-118	0.619242	0.648	0.688	7.85E-115	cancer ster	GMDS	-0.04
4.30E-115	0.362417	0.719	0.768	8.61E-112	cancer ster	C19orf48	-0.049
7.86E-113	0.470459	0.712	0.756	1.57E-109	cancer ster	BLVRB	-0.044
7.87E-113	0.282896	0.688	0.652	1.57E-109	cancer ster	AP1S1	0.036
1.28E-112	0.495743	0.824	0.824	2.56E-109	cancer ster	CHCHD10	0
8.61E-110	0.790569	0.722	0.781	1.72E-106	cancer ster	PLK2	-0.059
3.37E-109	0.292945	0.772	0.734	6.74E-106	cancer ster	FKBP4	0.038
1.36E-108	0.420633	0.733	0.727	2.73E-105	cancer ster	CISD3	0.006
1.75E-108	0.53705	0.642	0.686	3.50E-105	cancer ster	ANXA4	-0.044
5.73E-106	0.321755	0.629	0.6	1.15E-102	cancer ster	RALGAPA	0.029
1.34E-105	0.274591	0.729	0.747	2.68E-102	cancer ster	DGKD	-0.018
7.00E-104	0.427348	0.685	0.737	1.40E-100	cancer ster	HIP1R	-0.052
1.49E-103	0.306568	0.603	0.549	2.99E-100	cancer ster	MICAL3	0.054
6.33E-102	0.845213	0.735	0.855	1.27E-98	cancer ster	KLF4	-0.12
1.88E-100	0.651006	0.75	0.797	3.76E-97	cancer ster	ACTN4	-0.047
6.96E-98	0.33188	0.702	0.684	1.39E-94	cancer ster	PLCG2	0.018
8.54E-98	0.333356	0.614	0.599	1.71E-94	cancer ster	FASN	0.015
3.83E-96	0.340361	0.686	0.704	7.65E-93	cancer ster	HELZ2	-0.018
1.04E-95	0.458353	0.666	0.709	2.08E-92	cancer ster	TMEM141	-0.043
1.17E-95	0.541384	0.954	0.968	2.34E-92	cancer ster	HMGB1	-0.014
6.78E-95	0.52656	0.726	0.824	1.36E-91	cancer ster	CD151	-0.098
7.86E-91	0.310678	0.908	0.996	1.57E-87	cancer ster	MTRNR2L	-0.088
7.79E-90	0.486106	0.648	0.713	1.56E-86	cancer ster	EPHX2	-0.065
8.24E-84	0.362178	0.609	0.659	1.65E-80	cancer ster	HIST1H3C	-0.05
1.89E-83	0.444643	0.753	0.786	3.79E-80	cancer ster	CHMP4B	-0.033
2.39E-83	0.38309	0.647	0.673	4.78E-80	cancer ster	MKI67	-0.026
6.30E-81	0.271134	0.785	0.763	1.26E-77	cancer ster	EBPL	0.022
3.43E-79	0.52962	0.63	0.714	6.86E-76	cancer ster	PLXNB2	-0.084
7.89E-78	0.328898	0.741	0.736	1.58E-74	cancer ster	TRAF5	0.005
1.33E-77	0.433722	0.684	0.764	2.66E-74	cancer ster	PDLIM1	-0.08
1.31E-76	0.337089	0.665	0.687	2.61E-73	cancer ster	HIST1H2B	-0.022
5.21E-75	0.42933	0.743	0.767	1.04E-71	cancer ster	PTMS	-0.024
2.12E-69	0.614033	0.62	0.69	4.24E-66	cancer ster	MYO1E	-0.07
5.55E-69	0.567201	0.737	0.757	1.11E-65	cancer ster	MXD1	-0.02
5.69E-69	0.358079	0.7	0.707	1.14E-65	cancer ster	NORAD	-0.007
7.81E-69	0.308008	0.683	0.679	1.56E-65	cancer ster	SRSF6	0.004
2.01E-68	0.37605	0.752	0.785	4.01E-65	cancer ster	INTS6	-0.033
4.19E-68	0.544644	0.881	0.942	8.37E-65	cancer ster	SAT1	-0.061
1.26E-66	0.451384	0.688	0.74	2.53E-63	cancer ster	ZKSCAN1	-0.052
1.88E-66	0.572758	0.708	0.714	3.77E-63	cancer ster	HIST1H1E	-0.006
3.98E-65	0.470536	0.662	0.753	7.96E-62	cancer ster	APP	-0.091
1.18E-61	0.498084	0.832	0.844	2.37E-58	cancer ster	CSTB	-0.012
2.45E-60	0.464598	0.852	0.879	4.91E-57	cancer ster	NME2	-0.027
1.64E-59	0.434442	0.781	0.774	3.29E-56	cancer ster	HMGA1	0.007
2.59E-58	0.41198	0.814	0.825	5.18E-55	cancer ster	RPS27L	-0.011
5.72E-58	0.280931	0.695	0.743	1.14E-54	cancer ster	GIPC1	-0.048

1.67E-57	0.266318	0.629	0.605	3.35E-54	cancer ster	ACSL5	0.024
2.64E-56	0.301337	0.568	0.595	5.28E-53	cancer ster	HIST1H4D	-0.027
3.67E-56	0.495268	0.604	0.695	7.34E-53	cancer ster	TNFRSF12	-0.091
1.19E-52	0.346966	0.773	0.767	2.38E-49	cancer ster	PHB	0.006
1.59E-50	0.298503	0.67	0.652	3.18E-47	cancer ster	HIST1H1C	0.018
2.98E-48	0.322549	0.818	0.841	5.96E-45	cancer ster	FABP5	-0.023
1.66E-44	0.406909	0.609	0.682	3.32E-41	cancer ster	HDHD3	-0.073
2.30E-44	0.72698	0.916	0.927	4.60E-41	cancer ster	HSPH1	-0.011
2.39E-44	0.579488	0.919	0.958	4.77E-41	cancer ster	IER2	-0.039
1.36E-42	0.317197	0.584	0.624	2.73E-39	cancer ster	PYGB	-0.04
5.71E-41	0.489914	0.766	0.789	1.14E-37	cancer ster	TPM4	-0.023
1.22E-39	0.386571	0.568	0.589	2.44E-36	cancer ster	PIK3R3	-0.021
4.06E-39	0.324824	0.651	0.752	8.13E-36	cancer ster	LSR	-0.101
5.83E-39	0.310696	0.597	0.579	1.17E-35	cancer ster	RMRP	0.018
9.99E-39	0.356623	0.828	0.878	2.00E-35	cancer ster	RAC1	-0.05
3.36E-37	0.37118	0.686	0.752	6.71E-34	cancer ster	CENPX	-0.066
3.48E-36	0.343657	0.554	0.63	6.97E-33	cancer ster	NQO1	-0.076
1.82E-35	0.273587	0.517	0.703	3.63E-32	cancer ster	NCOA7	-0.186
1.60E-34	0.438854	0.549	0.649	3.20E-31	cancer ster	GALE	-0.1
4.89E-34	0.269425	0.653	0.719	9.78E-31	cancer ster	GPHN	-0.066
1.25E-33	0.468982	0.671	0.745	2.49E-30	cancer ster	HDLBP	-0.074
1.91E-33	0.285981	0.688	0.7	3.81E-30	cancer ster	SLC20A1	-0.012
9.12E-31	0.285156	0.816	0.806	1.82E-27	cancer ster	NUCKS1	0.01
1.74E-29	0.610147	0.891	0.924	3.47E-26	cancer ster	EGR1	-0.033
2.35E-28	0.292308	0.675	0.711	4.70E-25	cancer ster	IRF2BP2	-0.036
1.15E-27	0.332244	0.604	0.669	2.30E-24	cancer ster	HIST1H2B	-0.065
1.36E-26	0.322269	0.867	0.88	2.72E-23	cancer ster	TPI1	-0.013
5.68E-25	0.281796	0.546	0.57	1.14E-21	cancer ster	HIST2H2B	-0.024
3.38E-22	0.334233	0.677	0.709	6.76E-19	cancer ster	FDPS	-0.032
7.53E-22	0.287125	0.593	0.669	1.51E-18	cancer ster	LGALS3BI	-0.076
1.61E-21	0.29056	0.621	0.668	3.22E-18	cancer ster	TRAPPC9	-0.047
4.98E-21	0.356152	0.485	0.658	9.96E-18	cancer ster	ANKRD36	-0.173
3.37E-20	0.283284	0.705	0.736	6.73E-17	cancer ster	SLC25A39	-0.031
2.72E-18	0.293434	0.691	0.697	5.45E-15	cancer ster	AL118516	-0.006
1.43E-17	0.29508	0.533	0.739	2.87E-14	cancer ster	HMGCS1	-0.206
1.99E-17	0.273396	0.551	0.625	3.97E-14	cancer ster	MYO19	-0.074
2.62E-16	0.482676	0.6	0.674	5.23E-13	cancer ster	LENG8	-0.074
7.31E-16	0.379886	0.79	0.869	1.46E-12	cancer ster	RHOB	-0.079
1.23E-14	0.309503	0.631	0.695	2.46E-11	cancer ster	SUGP2	-0.064
4.04E-12	0.37386	0.598	0.699	8.08E-09	cancer ster	CSRNP2	-0.101
5.10E-12	0.349258	0.698	0.809	1.02E-08	cancer ster	NUDT4	-0.111
1.59E-10	0.288291	0.575	0.673	3.17E-07	cancer ster	SLC9A1	-0.098
2.55E-10	0.30076	0.554	0.638	5.10E-07	cancer ster	CTNNA1	-0.084
3.37E-10	0.448724	0.579	0.701	6.74E-07	cancer ster	NPDC1	-0.122
1.04E-09	0.487401	0.907	0.946	2.08E-06	cancer ster	HSPA1B	-0.039
9.15E-09	0.265495	0.606	0.711	1.83E-05	cancer ster	ISOC2	-0.105
1.54E-08	0.375394	0.537	0.636	3.08E-05	cancer ster	CYSTM1	-0.099
1.58E-08	0.269762	0.582	0.64	3.17E-05	cancer ster	AL135925	-0.058
1.83E-08	0.329806	0.688	0.773	3.66E-05	cancer ster	GADD45G	-0.085
6.94E-08	0.382251	0.769	0.8	0.000139	cancer ster	GLUD1	-0.031
2.44E-07	0.275269	0.618	0.706	0.000489	cancer ster	CENPF	-0.088
3.92E-06	0.271106	0.513	0.599	0.007832	cancer ster	MYO1C	-0.086
4.84E-06	0.468654	0.611	0.731	0.009676	cancer ster	RAB11FIP	-0.12
9.54E-06	0.268095	0.513	0.583	0.01908	cancer ster	GFPT1	-0.07
4.36E-166	1.881617	0.983	0.576	8.73E-163	endothelial	PECAM1	0.407
7.11E-140	1.159299	0.969	0.679	1.42E-136	endothelial	NPDC1	0.29

1.31E-128	1.426316	0.927	0.656	2.63E-125	endothelial ENG	0.271
2.58E-117	1.193816	1	0.895	5.17E-114	endothelial VIM	0.105
1.11E-105	1.267896	0.976	0.885	2.21E-102	endothelial IFITM3	0.091
1.62E-94	0.969946	0.958	0.778	3.24E-91	endothelial FKBP1A	0.18
3.57E-93	0.835004	0.868	0.523	7.14E-90	endothelial PLXND1	0.345
4.36E-93	0.88513	0.927	0.737	8.72E-90	endothelial APP	0.19
6.12E-90	0.277423	0.962	0.689	1.22E-86	endothelial SFXN3	0.273
6.73E-90	0.958664	0.882	0.653	1.35E-86	endothelial TCF4	0.229
3.46E-86	0.443402	0.948	0.661	6.92E-83	endothelial PLA2G16	0.287
1.34E-84	0.417483	0.944	0.601	2.69E-81	endothelial TPST2	0.343
3.65E-79	0.283713	0.931	0.699	7.29E-76	endothelial PLXNB2	0.232
8.74E-79	0.332124	0.941	0.641	1.75E-75	endothelial RUVBL2	0.3
3.95E-76	0.871676	0.844	0.651	7.91E-73	endothelial MCAM	0.193
7.51E-76	0.759901	0.896	0.701	1.50E-72	endothelial SPTBN1	0.195
2.27E-75	0.908706	0.924	0.794	4.54E-72	endothelial ID3	0.13
7.07E-74	0.565079	0.889	0.75	1.41E-70	endothelial PON2	0.139
3.89E-73	0.368767	0.934	0.657	7.77E-70	endothelial PSMG4	0.277
1.05E-70	0.807047	0.872	0.75	2.10E-67	endothelial PDLIM1	0.122
2.00E-70	0.851362	0.906	0.668	4.00E-67	endothelial ICAM2	0.238
2.99E-69	0.784197	0.948	0.813	5.98E-66	endothelial SELENOW0.135	
1.20E-66	0.562723	0.955	0.684	2.39E-63	endothelial SELENOS	0.271
7.43E-66	0.732337	0.868	0.649	1.49E-62	endothelial STOM	0.219
1.26E-65	0.665811	0.924	0.722	2.53E-62	endothelial CD63	0.202
3.28E-65	0.747815	0.934	0.755	6.56E-62	endothelial TIMP1	0.179
4.06E-65	0.38491	0.924	0.716	8.12E-62	endothelial DDAH2	0.208
1.06E-64	0.776778	0.83	0.583	2.13E-61	endothelial PIK3R3	0.247
4.93E-64	0.824641	0.868	0.731	9.87E-61	endothelial ITGB1	0.137
1.75E-62	0.801751	0.844	0.64	3.51E-59	endothelial PLPP1	0.204
3.00E-61	0.643945	0.882	0.762	6.01E-58	endothelial PTMS	0.12
1.84E-60	0.46034	0.837	0.761	3.67E-57	endothelial KIAA1211	0.076
3.83E-60	0.860914	0.858	0.815	7.67E-57	endothelial ID1	0.043
9.75E-60	0.784791	0.826	0.645	1.95E-56	endothelial SERPINH1	0.181
1.88E-58	0.823944	0.896	0.758	3.77E-55	endothelial ANXA2	0.138
4.47E-58	0.713663	0.906	0.792	8.93E-55	endothelial CD81	0.114
1.12E-56	0.534894	0.878	0.688	2.24E-53	endothelial PHACTR2	0.19
3.68E-56	0.511327	0.799	0.557	7.35E-53	endothelial GIMAP8	0.242
3.76E-56	0.700627	0.844	0.698	7.53E-53	endothelial PTTG1IP	0.146
8.15E-56	1.107466	0.913	0.837	1.63E-52	endothelial FABP5	0.076
1.66E-55	0.486741	0.941	0.689	3.32E-52	endothelial MAGED2	0.252
2.96E-53	0.746265	0.903	0.771	5.92E-50	endothelial DSTN	0.132
2.92E-51	0.300883	0.851	0.611	5.85E-48	endothelial LRRC8C	0.24
1.21E-49	0.485731	0.941	0.87	2.42E-46	endothelial RAC1	0.071
2.41E-49	0.689434	0.927	0.857	4.83E-46	endothelial RHOB	0.07
6.17E-49	0.605225	0.92	0.83	1.23E-45	endothelial MARCKSI	0.09
2.42E-48	0.702153	0.99	0.904	4.83E-45	endothelial IFITM1	0.086
2.67E-48	0.540964	0.861	0.762	5.33E-45	endothelial TSC22D1	0.099
2.58E-47	0.601055	0.83	0.707	5.15E-44	endothelial TNFRSF1A	0.123
3.02E-47	0.754809	0.854	0.809	6.05E-44	endothelial CD151	0.045
6.48E-47	0.311971	0.868	0.674	1.30E-43	endothelial SMC6	0.194
1.05E-46	0.362914	0.962	0.735	2.09E-43	endothelial ATOX1	0.227
1.17E-46	0.273145	0.809	0.501	2.34E-43	endothelial FBLN5	0.308
1.79E-46	0.283295	0.833	0.648	3.59E-43	endothelial DENND3	0.185
3.48E-46	0.355658	0.934	0.737	6.96E-43	endothelial CHST12	0.197
4.03E-46	0.393185	1	0.993	8.07E-43	endothelial TMSB10	0.007
1.21E-45	0.41444	0.854	0.616	2.41E-42	endothelial ELMO1	0.238
5.39E-45	0.442353	0.844	0.757	1.08E-41	endothelial ADGRG1	0.087

1.06E-44	0.27667	0.84	0.609	2.13E-41	endothelial AAMDC	0.231
1.26E-43	0.632058	0.854	0.727	2.52E-40	endothelial LAPT4A	0.127
1.66E-43	0.42015	0.934	0.772	3.31E-40	endothelial COMT	0.162
1.66E-43	0.706371	0.868	0.685	3.32E-40	endothelial AHNAK	0.183
5.19E-43	0.416538	0.799	0.514	1.04E-39	endothelial GBP4	0.285
3.17E-42	0.487803	0.84	0.692	6.33E-39	endothelial TPM1	0.148
3.63E-42	0.683465	0.764	0.617	7.27E-39	endothelial VAT1	0.147
1.41E-41	0.425393	0.778	0.58	2.81E-38	endothelial PLEKHG1	0.198
4.05E-41	0.404215	0.917	0.784	8.09E-38	endothelial TPM4	0.133
6.53E-41	0.435327	0.868	0.683	1.31E-37	endothelial EI24	0.185
1.33E-40	0.610054	0.778	0.607	2.66E-37	endothelial APLP2	0.171
4.14E-40	0.390757	0.913	0.855	8.28E-37	endothelial LMNA	0.058
5.46E-40	0.342861	0.955	0.766	1.09E-36	endothelial ANXA1	0.189
7.13E-40	0.419098	0.799	0.658	1.43E-36	endothelial SCARB2	0.141
1.24E-39	0.706168	0.75	0.584	2.49E-36	endothelial RDX	0.166
6.27E-39	0.390293	0.76	0.54	1.25E-35	endothelial QKI	0.22
8.47E-39	0.505456	0.753	0.519	1.69E-35	endothelial LMCD1	0.234
1.15E-38	0.350832	0.892	0.691	2.29E-35	endothelial IFNGR1	0.201
1.30E-38	0.500656	0.757	0.607	2.60E-35	endothelial PKP4	0.15
3.07E-38	0.342164	0.854	0.745	6.13E-35	endothelial HEBP1	0.109
4.72E-37	0.390758	0.833	0.694	9.44E-34	endothelial NME4	0.139
4.82E-37	0.48387	0.809	0.752	9.65E-34	endothelial FCGRT	0.057
5.12E-37	0.416413	0.851	0.775	1.02E-33	endothelial HES1	0.076
7.52E-37	0.373377	0.993	0.968	1.50E-33	endothelial ACTG1	0.025
1.27E-35	0.487122	0.84	0.666	2.54E-32	endothelial LGALS1	0.174
1.34E-35	0.39001	0.75	0.519	2.67E-32	endothelial FMNL3	0.231
1.99E-35	0.552342	0.83	0.725	3.97E-32	endothelial PLEC	0.105
3.37E-35	0.47678	0.802	0.638	6.73E-32	endothelial VAMP3	0.164
6.38E-35	0.605406	0.781	0.658	1.28E-31	endothelial SH3BP5	0.123
1.28E-34	0.564929	0.75	0.632	2.56E-31	endothelial BEX3	0.118
1.45E-34	0.623409	0.757	0.655	2.91E-31	endothelial ECE1	0.102
3.96E-34	0.395863	0.823	0.661	7.91E-31	endothelial LUZP1	0.162
4.01E-34	0.303689	0.795	0.635	8.03E-31	endothelial FAM241A	0.16
6.38E-34	0.639334	0.799	0.704	1.28E-30	endothelial ATP1B3	0.095
8.32E-34	0.275041	0.795	0.683	1.66E-30	endothelial GFOD1	0.112
9.79E-34	0.277401	0.812	0.744	1.96E-30	endothelial GRASP	0.068
1.77E-33	0.577059	0.743	0.677	3.53E-30	endothelial COL18A1	0.066
2.55E-33	0.433742	1	0.983	5.09E-30	endothelial MTRNR2L0	0.017
6.82E-33	0.36748	0.979	0.759	1.36E-29	endothelial OSTC	0.22
1.14E-32	0.27454	0.84	0.77	2.28E-29	endothelial BRI3	0.07
1.87E-32	0.277509	0.92	0.746	3.74E-29	endothelial NASP	0.174
2.10E-32	0.530532	0.993	0.915	4.21E-29	endothelial DDIT4	0.078
3.35E-32	0.454163	0.812	0.702	6.69E-29	endothelial MLEC	0.11
1.18E-31	0.503174	0.819	0.724	2.36E-28	endothelial FLNA	0.095
2.25E-31	0.325457	0.889	0.685	4.49E-28	endothelial COA3	0.204
2.99E-31	0.367407	0.983	0.952	5.99E-28	endothelial H3F3A	0.031
5.29E-31	0.519203	0.802	0.669	1.06E-27	endothelial VAMP5	0.133
5.44E-31	0.600127	0.753	0.633	1.09E-27	endothelial NFIC	0.12
3.62E-30	0.408669	0.788	0.645	7.24E-27	endothelial IKBIP	0.143
8.53E-30	0.55888	0.944	0.779	1.71E-26	endothelial MT2A	0.165
1.73E-29	0.440084	0.799	0.703	3.45E-26	endothelial GRN	0.096
3.16E-29	0.441632	0.899	0.762	6.32E-26	endothelial SOCS3	0.137
8.19E-29	0.440755	0.844	0.712	1.64E-25	endothelial NPC2	0.132
8.22E-29	0.496678	0.875	0.672	1.64E-25	endothelial BST2	0.203
2.47E-28	0.623365	0.691	0.477	4.94E-25	endothelial NOTCH4	0.214
5.61E-28	0.533344	0.774	0.617	1.12E-24	endothelial TNFSF10	0.157

5.75E-28	0.579282	0.785	0.728	1.15E-24	endothelial CD9	0.057
5.83E-28	0.553941	0.74	0.624	1.17E-24	endothelial CTNNA1	0.116
7.75E-28	0.339057	0.927	0.764	1.55E-24	endothelial TXNDC17	0.163
1.10E-27	0.608834	0.694	0.557	2.20E-24	endothelial HEG1	0.137
3.74E-27	0.395139	0.76	0.615	7.48E-24	endothelial MEF2A	0.145
4.61E-27	0.289063	0.753	0.585	9.22E-24	endothelial CEP170	0.168
6.39E-27	0.420449	0.934	0.815	1.28E-23	endothelial PRDX1	0.119
1.18E-26	0.477371	0.83	0.74	2.37E-23	endothelial GIMAP4	0.09
1.19E-26	0.42009	0.74	0.631	2.39E-23	endothelial SWAP70	0.109
1.55E-25	0.412852	0.823	0.686	3.10E-22	endothelial CSRP1	0.137
2.64E-25	0.433272	0.872	0.732	5.28E-22	endothelial DUT	0.14
3.53E-25	0.33267	0.941	0.925	7.06E-22	endothelial S100A10	0.016
3.57E-25	0.439639	0.764	0.69	7.13E-22	endothelial NEDD9	0.074
3.93E-25	0.325469	0.757	0.646	7.87E-22	endothelial CTSL	0.111
4.96E-25	0.363318	0.712	0.54	9.92E-22	endothelial RTL8A	0.172
8.70E-25	0.352713	0.785	0.65	1.74E-21	endothelial PICALM	0.135
1.08E-22	0.331016	0.826	0.659	2.17E-19	endothelial GIMAP6	0.167
1.32E-22	0.489346	0.74	0.699	2.63E-19	endothelial SPRY1	0.041
2.91E-22	0.421323	0.785	0.698	5.83E-19	endothelial CYB5A	0.087
3.06E-22	0.349922	0.882	0.79	6.12E-19	endothelial HSP90B1	0.092
3.93E-22	0.368755	0.767	0.636	7.85E-19	endothelial NUDT14	0.131
6.02E-22	0.332753	0.934	0.847	1.20E-18	endothelial TUBB	0.087
7.68E-22	0.280451	0.819	0.649	1.54E-18	endothelial PREX1	0.17
1.37E-21	0.284658	0.851	0.837	2.74E-18	endothelial KLF4	0.014
1.94E-21	0.280703	0.753	0.639	3.89E-18	endothelial MAPK3	0.114
1.95E-21	0.38297	0.802	0.709	3.89E-18	endothelial ANXA5	0.093
2.14E-21	0.36689	0.854	0.789	4.28E-18	endothelial ACTN4	0.065
4.67E-21	0.266151	0.861	0.739	9.35E-18	endothelial HSBP1	0.122
1.10E-20	0.399296	0.83	0.683	2.21E-17	endothelial ITM2A	0.147
2.01E-20	0.31607	0.681	0.549	4.02E-17	endothelial RBMS2	0.132
3.88E-20	0.538672	0.698	0.653	7.77E-17	endothelial TMEM204	0.045
4.03E-20	0.306708	0.823	0.674	8.06E-17	endothelial HEXB	0.149
5.14E-20	0.322701	0.951	0.814	1.03E-16	endothelial H2AFY	0.137
5.39E-20	0.594876	0.736	0.669	1.08E-16	endothelial PRCP	0.067
7.33E-20	0.335126	0.91	0.729	1.47E-16	endothelial TALDO1	0.181
2.16E-19	0.46823	0.694	0.559	4.31E-16	endothelial ITGA1	0.135
2.61E-19	0.416442	0.729	0.662	5.23E-16	endothelial SEC14L1	0.067
5.63E-19	0.496105	0.67	0.581	1.13E-15	endothelial LIMS2	0.089
6.25E-19	0.274511	0.701	0.613	1.25E-15	endothelial SGCB	0.088
6.96E-19	0.634846	0.76	0.733	1.39E-15	endothelial CD320	0.027
8.97E-19	0.353944	0.74	0.61	1.79E-15	endothelial TBCD	0.13
9.55E-19	0.296655	0.948	0.874	1.91E-15	endothelial NME2	0.074
9.96E-19	0.341336	0.878	0.756	1.99E-15	endothelial AP2S1	0.122
2.19E-18	0.324695	0.757	0.636	4.39E-15	endothelial GNG10	0.121
2.26E-18	0.278831	0.896	0.717	4.52E-15	endothelial ETHE1	0.179
2.42E-18	0.352396	0.747	0.613	4.85E-15	endothelial MRPL17	0.134
3.04E-18	0.392958	0.875	0.767	6.08E-15	endothelial GIMAP7	0.108
3.89E-18	0.295841	0.799	0.753	7.78E-15	endothelial YWHAH	0.046
9.04E-18	0.371654	0.701	0.596	1.81E-14	endothelial FEZ2	0.105
9.65E-18	0.356931	0.976	0.866	1.93E-14	endothelial LDHA	0.11
5.97E-17	0.372674	0.694	0.587	1.19E-13	endothelial PAM	0.107
1.73E-16	0.356268	0.74	0.651	3.45E-13	endothelial PRDX4	0.089
2.15E-16	0.288422	0.663	0.509	4.29E-13	endothelial IGFBP2	0.154
3.15E-16	0.331194	0.951	0.87	6.30E-13	endothelial TUBA1A	0.081
6.12E-16	0.386315	0.778	0.711	1.22E-12	endothelial ENTPD1	0.067
1.23E-14	0.529302	0.632	0.465	2.46E-11	endothelial BMPR2	0.167

1.24E-14	0.346554	0.764	0.705	2.47E-11	endothelial PARVB	0.059
1.85E-14	0.426819	0.677	0.651	3.69E-11	endothelial APOLD1	0.026
2.43E-14	0.268467	0.792	0.677	4.87E-11	endothelial PDIA4	0.115
6.04E-14	0.343831	0.854	0.765	1.21E-10	endothelial STMN1	0.089
2.65E-13	0.485654	0.691	0.667	5.29E-10	endothelial RIPOR1	0.024
6.43E-13	0.341408	0.767	0.691	1.29E-09	endothelial CRTAP	0.076
7.30E-13	0.276485	0.917	0.843	1.46E-09	endothelial POMP	0.074
1.24E-12	0.455972	0.705	0.705	2.49E-09	endothelial TSPAN3	0
7.37E-12	0.451948	0.622	0.524	1.47E-08	endothelial CRIM1	0.098
9.01E-12	0.522426	0.691	0.733	1.80E-08	endothelial DUSP23	-0.042
1.31E-11	0.317237	0.729	0.656	2.62E-08	endothelial NUCB2	0.073
6.02E-11	0.313114	0.712	0.741	1.20E-07	endothelial SGK1	-0.029
6.41E-11	0.280547	0.694	0.657	1.28E-07	endothelial PDLIM5	0.037
1.47E-10	0.276142	0.733	0.638	2.94E-07	endothelial SPCS3	0.095
2.45E-10	0.372718	0.733	0.771	4.91E-07	endothelial UPP1	-0.038
4.32E-10	0.273257	0.67	0.636	8.63E-07	endothelial CCDC50	0.034
6.66E-10	0.344794	0.712	0.669	1.33E-06	endothelial PLSCR1	0.043
4.29E-09	0.384402	0.688	0.663	8.58E-06	endothelial EIF2AK4	0.025
4.59E-09	0.316197	0.743	0.711	9.18E-06	endothelial YPEL2	0.032
4.87E-09	0.272684	0.701	0.621	9.73E-06	endothelial LPP	0.08
5.89E-07	0.320417	0.649	0.62	0.001178	endothelial RTL8C	0.029
6.33E-07	0.310755	0.691	0.666	0.001266	endothelial KLF9	0.025
6.74E-07	0.328302	0.705	0.675	0.001348	endothelial NCOA7	0.03
9.05E-07	0.267989	0.635	0.637	0.001811	endothelial PTP4A3	-0.002
9.69E-07	0.294944	0.59	0.425	0.001939	endothelial F2R	0.165
3.79E-06	0.330562	0.663	0.644	0.007572	endothelial ZEB1	0.019
4.94E-06	0.3739	0.653	0.713	0.009871	endothelial RGS3	-0.06
7.29E-06	0.295237	0.635	0.598	0.014579	endothelial LEPROT	0.037
7.40E-06	0.383196	0.597	0.552	0.014808	endothelial TRIM47	0.045
1.42E-05	0.313931	0.635	0.609	0.028384	endothelial RHOC	0.026
2.36E-05	0.344997	0.615	0.531	0.047148	endothelial ATL3	0.084
1.76E-299	0.564379	0.975	0.613	3.51E-296	Fibroblasts FXYD1	0.362
1.62E-290	0.439332	0.966	0.565	3.23E-287	Fibroblasts AC245595	0.401
1.92E-279	1.525789	0.945	0.6	3.83E-276	Fibroblasts MFGE8	0.345
6.25E-274	1.440895	0.951	0.672	1.25E-270	Fibroblasts COL18A1	0.279
4.92E-273	1.164509	0.972	0.753	9.83E-270	Fibroblasts NBL1	0.219
5.96E-271	1.951257	0.981	0.66	1.19E-267	Fibroblasts LGALS1	0.321
1.36E-262	1.358077	0.929	0.681	2.71E-259	Fibroblasts PCOLCE	0.248
6.00E-251	1.710251	0.977	0.752	1.20E-247	Fibroblasts TIMP1	0.225
9.88E-248	1.643583	0.993	0.883	1.98E-244	Fibroblasts IFITM3	0.11
7.08E-241	1.345169	0.996	0.894	1.42E-237	Fibroblasts VIM	0.102
5.41E-240	0.985259	0.937	0.628	1.08E-236	Fibroblasts RAB31	0.309
3.88E-235	1.463685	0.931	0.803	7.77E-232	Fibroblasts COL6A3	0.128
8.28E-228	1.699607	0.965	0.792	1.66E-224	Fibroblasts ID3	0.173
1.81E-225	0.764362	0.942	0.647	3.63E-222	Fibroblasts MCAM	0.295
1.12E-222	1.331255	0.926	0.652	2.24E-219	Fibroblasts LGALS3BI	0.274
1.49E-213	1.21722	0.924	0.688	2.99E-210	Fibroblasts TPM1	0.236
1.76E-207	1.070961	0.887	0.596	3.52E-204	Fibroblasts DKK3	0.291
1.12E-206	0.465531	0.956	0.657	2.24E-203	Fibroblasts GLMP	0.299
1.50E-205	0.603014	0.922	0.625	3.00E-202	Fibroblasts ZMIZ1	0.297
1.25E-204	1.132512	0.949	0.728	2.51E-201	Fibroblasts ITGB1	0.221
6.11E-204	1.299061	0.959	0.719	1.22E-200	Fibroblasts CD63	0.24
4.73E-203	1.210295	0.924	0.651	9.46E-200	Fibroblasts SELENOM	0.273
1.42E-202	0.501175	0.961	0.742	2.84E-199	Fibroblasts HEBP1	0.219
5.78E-196	0.957942	0.907	0.641	1.16E-192	Fibroblasts SERPINH1	0.266
7.56E-193	0.459673	0.956	0.721	1.51E-189	Fibroblasts TMEM9	0.235

3.42E-192	1.235762	0.938	0.724	6.84E-189	Fibroblasts LAPTM4A	0.214
1.73E-191	0.918595	0.928	0.748	3.45E-188	Fibroblasts PDLIM1	0.18
3.36E-190	0.991085	0.956	0.759	6.71E-187	Fibroblasts TSC22D1	0.197
4.69E-189	0.730343	0.958	0.69	9.38E-186	Fibroblasts MT1E	0.268
1.26E-188	0.490163	0.922	0.676	2.52E-185	Fibroblasts LGMN	0.246
1.99E-187	0.597545	0.954	0.722	3.98E-184	Fibroblasts KLF10	0.232
9.49E-183	0.39114	0.958	0.586	1.90E-179	Fibroblasts PGM1	0.372
2.60E-177	1.224479	0.894	0.695	5.21E-174	Fibroblasts SPON2	0.199
7.94E-176	0.387636	0.882	0.613	1.59E-172	Fibroblasts ST3GAL4	0.269
3.60E-175	0.87793	0.959	0.731	7.20E-172	Fibroblasts GLUL	0.228
1.04E-173	0.484685	0.919	0.622	2.08E-170	Fibroblasts SCPEP1	0.297
1.03E-172	0.922351	0.919	0.76	2.05E-169	Fibroblasts PTMS	0.159
2.38E-172	0.604998	0.907	0.591	4.75E-169	Fibroblasts LEPROT	0.316
8.77E-172	0.288615	0.901	0.55	1.75E-168	Fibroblasts STAT2	0.351
2.55E-170	0.28164	0.931	0.682	5.10E-167	Fibroblasts RASD1	0.249
1.84E-168	0.929001	0.845	0.568	3.69E-165	Fibroblasts COL5A1	0.277
7.70E-168	0.35885	0.949	0.687	1.54E-164	Fibroblasts ZBTB16	0.262
2.80E-166	0.673147	0.933	0.735	5.59E-163	Fibroblasts SMIM3	0.198
1.22E-165	0.610871	0.891	0.669	2.44E-162	Fibroblasts TNS3	0.222
8.41E-165	1.068246	0.933	0.769	1.68E-161	Fibroblasts DSTN	0.164
1.56E-164	0.304167	0.892	0.58	3.12E-161	Fibroblasts CYTH3	0.312
2.64E-164	1.585245	0.864	0.544	5.27E-161	Fibroblasts ACTA2	0.32
1.33E-163	0.835035	0.905	0.736	2.67E-160	Fibroblasts APP	0.169
1.36E-163	1.001908	0.952	0.705	2.72E-160	Fibroblasts ANXA5	0.247
1.41E-159	0.868896	0.889	0.636	2.81E-156	Fibroblasts PLPP1	0.253
7.72E-159	0.772464	0.97	0.853	1.54E-155	Fibroblasts LMNA	0.117
8.42E-159	0.969008	0.887	0.725	1.68E-155	Fibroblasts LTBP4	0.162
7.72E-158	0.582796	0.919	0.703	1.54E-154	Fibroblasts SPATS2L	0.216
1.92E-156	0.917677	0.905	0.687	3.85E-153	Fibroblasts CRTAP	0.218
2.20E-156	0.55073	0.951	0.723	4.40E-153	Fibroblasts CD9	0.228
2.34E-153	0.506894	0.896	0.642	4.68E-150	Fibroblasts CTSL	0.254
2.09E-152	0.812048	0.864	0.628	4.19E-149	Fibroblasts BEX3	0.236
2.87E-152	0.432528	0.951	0.681	5.74E-149	Fibroblasts COA3	0.27
3.80E-152	0.527292	0.898	0.613	7.60E-149	Fibroblasts VAT1	0.285
7.08E-152	0.769093	0.885	0.628	1.42E-148	Fibroblasts NFIC	0.257
4.98E-150	0.514094	0.924	0.619	9.96E-147	Fibroblasts CTNNA1	0.305
6.83E-150	0.784965	0.924	0.699	1.37E-146	Fibroblasts GRN	0.225
3.55E-149	0.722511	0.922	0.645	7.10E-146	Fibroblasts STOM	0.277
7.13E-147	0.300693	0.917	0.657	1.43E-143	Fibroblasts EIF2AK4	0.26
9.16E-147	0.511216	0.869	0.534	1.83E-143	Fibroblasts RTL8A	0.335
1.81E-145	0.272355	0.947	0.639	3.62E-142	Fibroblasts BCL7C	0.308
1.60E-142	0.781504	0.97	0.854	3.20E-139	Fibroblasts PPIB	0.116
2.63E-141	0.534826	0.961	0.789	5.26E-138	Fibroblasts CD81	0.172
4.34E-141	0.424472	0.956	0.756	8.68E-138	Fibroblasts GADD45G	0.2
7.24E-141	0.518648	0.841	0.497	1.45E-137	Fibroblasts FBLN5	0.344
4.54E-135	0.512915	0.956	0.835	9.07E-132	Fibroblasts KLF4	0.121
7.23E-135	0.267735	0.903	0.633	1.45E-131	Fibroblasts GSTM2	0.27
1.18E-132	0.647078	0.951	0.708	2.36E-129	Fibroblasts NPC2	0.243
1.85E-132	0.405424	0.908	0.718	3.70E-129	Fibroblasts SPTSSA	0.19
3.32E-132	0.743937	0.947	0.782	6.65E-129	Fibroblasts TPM4	0.165
1.05E-131	0.309523	0.852	0.575	2.10E-128	Fibroblasts GPX7	0.277
3.10E-126	0.421675	0.896	0.681	6.21E-123	Fibroblasts TCEAL8	0.215
1.52E-125	1.354327	0.965	0.776	3.04E-122	Fibroblasts MT2A	0.189
3.70E-124	0.274179	0.944	0.67	7.39E-121	Fibroblasts ALG5	0.274
6.42E-124	0.362821	0.912	0.614	1.28E-120	Fibroblasts SIGMAR1	0.298
1.37E-123	0.456661	0.869	0.661	2.73E-120	Fibroblasts KLF9	0.208

1.84E-123	0.713311	0.954	0.799	3.68E-120	Fibroblasts PSAP	0.155
6.98E-123	0.848716	0.908	0.72	1.40E-119	Fibroblasts FLNA	0.188
2.58E-122	0.313159	0.912	0.722	5.16E-119	Fibroblasts PMEPA1	0.19
2.94E-122	0.834413	0.938	0.756	5.89E-119	Fibroblasts ANXA2	0.182
2.12E-120	0.610363	0.82	0.583	4.25E-117	Fibroblasts PAM	0.237
4.11E-118	0.551937	0.831	0.634	8.22E-115	Fibroblasts VCL	0.197
6.75E-118	0.561527	0.966	0.769	1.35E-114	Fibroblasts MT1X	0.197
7.88E-118	0.322526	0.959	0.711	1.58E-114	Fibroblasts MRPL36	0.248
9.40E-118	0.549676	0.848	0.649	1.88E-114	Fibroblasts TMEM204	0.199
1.62E-117	0.356656	0.921	0.664	3.24E-114	Fibroblasts PRCP	0.257
2.59E-116	0.72794	0.958	0.835	5.18E-113	Fibroblasts CEBPD	0.123
7.43E-116	0.721336	0.843	0.711	1.49E-112	Fibroblasts ACTN1	0.132
7.93E-116	0.632529	0.963	0.868	1.59E-112	Fibroblasts RAC1	0.095
7.37E-114	0.576671	0.834	0.681	1.47E-110	Fibroblasts PKIG	0.153
8.29E-114	0.656745	0.831	0.616	1.66E-110	Fibroblasts RTL8C	0.215
1.37E-113	0.314758	0.887	0.661	2.74E-110	Fibroblasts HYI	0.226
2.09E-112	0.381454	0.942	0.647	4.19E-109	Fibroblasts AKR1B1	0.295
4.01E-112	0.50712	0.998	0.991	8.01E-109	Fibroblasts FTH1	0.007
2.18E-111	0.617542	0.917	0.73	4.36E-108	Fibroblasts HDLBP	0.187
2.12E-109	0.54436	0.834	0.652	4.25E-106	Fibroblasts TCF4	0.182
2.42E-109	0.462711	0.869	0.627	4.83E-106	Fibroblasts OTULINL	0.242
6.99E-109	0.629839	0.892	0.808	1.40E-105	Fibroblasts CD151	0.084
9.65E-108	0.363731	0.91	0.666	1.93E-104	Fibroblasts LMO4	0.244
7.90E-107	0.504817	0.91	0.687	1.58E-103	Fibroblasts MAGED2	0.223
1.15E-106	0.49261	0.84	0.707	2.29E-103	Fibroblasts CHPF	0.133
4.15E-106	0.464897	0.949	0.716	8.30E-103	Fibroblasts TM9SF2	0.233
1.38E-105	0.468382	0.857	0.642	2.76E-102	Fibroblasts IKBIP	0.215
3.39E-105	0.711587	0.915	0.797	6.78E-102	Fibroblasts P4HB	0.118
8.86E-103	0.720746	0.966	0.811	1.77E-99	Fibroblasts SELENOW	0.155
3.16E-101	0.733641	0.857	0.684	6.32E-98	Fibroblasts CSRP1	0.173
2.00E-99	0.73382	0.824	0.718	3.99E-96	Fibroblasts GEM	0.106
6.64E-99	0.337623	0.924	0.675	1.33E-95	Fibroblasts C20orf27	0.249
9.51E-97	0.422237	0.882	0.774	1.90E-93	Fibroblasts RRBP1	0.108
5.69E-95	0.476182	0.794	0.54	1.14E-91	Fibroblasts ISYNA1	0.254
2.24E-94	0.576447	0.806	0.666	4.48E-91	Fibroblasts PDLIM7	0.14
2.51E-94	0.294794	0.974	0.757	5.01E-91	Fibroblasts MRPL51	0.217
8.49E-93	0.36563	0.882	0.677	1.70E-89	Fibroblasts FOXO3	0.205
2.99E-92	0.689755	0.792	0.622	5.98E-89	Fibroblasts CALU	0.17
2.27E-91	0.507583	0.979	0.807	4.53E-88	Fibroblasts EIF5A	0.172
1.46E-89	0.592974	0.952	0.759	2.93E-86	Fibroblasts SOCS3	0.193
4.71E-89	0.34696	0.855	0.627	9.42E-86	Fibroblasts SLC39A7	0.228
1.60E-88	0.394183	0.961	0.835	3.20E-85	Fibroblasts FABP5	0.126
3.04E-86	0.421567	0.938	0.771	6.09E-83	Fibroblasts MIR4435-20	0.167
3.78E-86	0.437432	0.864	0.75	7.56E-83	Fibroblasts FCGRT	0.114
3.95E-86	0.593913	0.827	0.702	7.91E-83	Fibroblasts TSPAN3	0.125
9.20E-86	0.680537	0.954	0.846	1.84E-82	Fibroblasts TUBB	0.108
9.48E-86	0.411552	0.877	0.615	1.90E-82	Fibroblasts CRELD2	0.262
1.96E-83	0.534109	0.875	0.658	3.91E-80	Fibroblasts ITM2C	0.217
1.64E-81	0.464986	0.857	0.678	3.28E-78	Fibroblasts PLD3	0.179
2.81E-81	0.493247	0.79	0.657	5.62E-78	Fibroblasts SCARB2	0.133
2.57E-80	0.286648	0.956	0.847	5.13E-77	Fibroblasts HSPB1	0.109
4.39E-80	0.490887	0.929	0.788	8.77E-77	Fibroblasts HSP90B1	0.141
9.44E-80	0.478987	0.762	0.611	1.89E-76	Fibroblasts SGCB	0.151
1.55E-79	0.538205	0.841	0.699	3.11E-76	Fibroblasts MAP1LC3.0	0.142
1.62E-79	0.439591	0.84	0.706	3.24E-76	Fibroblasts TNFRSF1A	0.134
3.54E-79	0.471769	0.854	0.632	7.09E-76	Fibroblasts PTP4A3	0.222

8.87E-79	0.427023	0.94	0.716	1.77E-75	Fibroblasts PRNP	0.224
2.07E-75	0.414118	0.898	0.737	4.15E-72	Fibroblasts HSBP1	0.161
2.32E-75	0.450721	0.758	0.578	4.65E-72	Fibroblasts P3H1	0.18
5.95E-75	0.412765	0.824	0.654	1.19E-71	Fibroblasts PDLIM5	0.17
7.42E-75	0.393256	0.998	0.974	1.48E-71	Fibroblasts FTL	0.024
2.52E-74	0.536545	0.959	0.802	5.04E-71	Fibroblasts PKM	0.157
3.05E-74	0.520393	0.891	0.752	6.11E-71	Fibroblasts KDELR2	0.139
3.95E-74	0.441474	0.878	0.733	7.91E-71	Fibroblasts IL6ST	0.145
8.22E-74	0.437621	0.926	0.771	1.64E-70	Fibroblasts COMT	0.155
3.57E-73	0.322844	0.808	0.632	7.14E-70	Fibroblasts CSF1	0.176
1.15E-71	0.366444	0.88	0.814	2.31E-68	Fibroblasts ID1	0.066
1.96E-71	0.329619	0.817	0.671	3.91E-68	Fibroblasts FNDC3B	0.146
3.86E-70	0.493813	0.905	0.692	7.72E-67	Fibroblasts RPN2	0.213
2.88E-69	0.58135	0.854	0.683	5.76E-66	Fibroblasts AHNAK	0.171
7.74E-68	0.447199	0.91	0.769	1.55E-64	Fibroblasts MYDGF	0.141
2.69E-66	0.435655	0.788	0.688	5.37E-63	Fibroblasts PHACTR2	0.1
3.50E-66	0.349629	0.905	0.724	7.01E-63	Fibroblasts ADI1	0.181
3.58E-66	0.301501	0.85	0.582	7.16E-63	Fibroblasts ZEB2	0.268
2.28E-65	0.380462	0.908	0.689	4.57E-62	Fibroblasts CNIH1	0.219
6.26E-65	0.48684	0.869	0.672	1.25E-61	Fibroblasts HEXB	0.197
1.24E-64	0.436388	0.818	0.7	2.49E-61	Fibroblasts SPTBN1	0.118
2.75E-64	0.619679	0.989	0.926	5.51E-61	Fibroblasts ZFP36L1	0.063
1.12E-63	0.355979	0.797	0.661	2.24E-60	Fibroblasts FUCA2	0.136
1.17E-63	0.319095	0.917	0.705	2.34E-60	Fibroblasts FKBP2	0.212
3.09E-62	0.602118	0.972	0.918	6.19E-59	Fibroblasts EGR1	0.054
5.44E-62	0.442706	0.908	0.705	1.09E-58	Fibroblasts SSR3	0.203
6.88E-62	0.494197	0.859	0.736	1.38E-58	Fibroblasts CANX	0.123
7.29E-62	0.437032	0.792	0.731	1.46E-58	Fibroblasts TCEAL4	0.061
1.31E-61	0.361871	0.764	0.612	2.62E-58	Fibroblasts MAGED1	0.152
1.17E-60	0.538298	0.97	0.869	2.34E-57	Fibroblasts TUBA1A	0.101
3.47E-59	0.326436	0.977	0.904	6.95E-56	Fibroblasts S100A11	0.073
4.58E-59	0.575897	0.984	0.901	9.17E-56	Fibroblasts GADD45B	0.083
1.72E-58	0.386025	0.832	0.61	3.44E-55	Fibroblasts TYMP	0.222
4.27E-57	0.416639	0.875	0.751	8.54E-54	Fibroblasts YWHAH	0.124
5.87E-57	0.277868	0.979	0.804	1.17E-53	Fibroblasts NUCKS1	0.175
1.01E-56	0.284578	0.877	0.666	2.03E-53	Fibroblasts VAMP5	0.211
1.09E-55	0.408436	0.982	0.841	2.18E-52	Fibroblasts SEC61B	0.141
5.32E-55	0.523308	0.785	0.698	1.06E-51	Fibroblasts PTTG1IP	0.087
7.36E-55	0.302448	0.855	0.694	1.47E-51	Fibroblasts UGCG	0.161
1.91E-54	0.42381	0.841	0.725	3.82E-51	Fibroblasts CTSB	0.116
7.39E-54	0.263169	0.764	0.591	1.48E-50	Fibroblasts MAGEF1	0.173
1.10E-53	0.512858	0.743	0.604	2.20E-50	Fibroblasts WARS	0.139
1.50E-53	0.488113	0.794	0.659	3.01E-50	Fibroblasts ERLEC1	0.135
3.97E-53	0.455359	0.937	0.813	7.94E-50	Fibroblasts PRDX1	0.124
1.88E-52	0.424582	0.774	0.65	3.77E-49	Fibroblasts PRDX4	0.124
2.65E-52	0.369287	0.914	0.755	5.29E-49	Fibroblasts EMP3	0.159
9.50E-52	0.40635	0.901	0.73	1.90E-48	Fibroblasts DUT	0.171
1.14E-51	0.424675	0.951	0.855	2.28E-48	Fibroblasts RHOB	0.096
1.31E-51	0.307558	0.753	0.657	2.62E-48	Fibroblasts ENG	0.096
1.88E-50	0.277286	0.78	0.593	3.77E-47	Fibroblasts FEZ2	0.187
2.03E-50	0.359303	0.799	0.61	4.06E-47	Fibroblasts CCPG1	0.189
3.96E-50	0.458552	0.854	0.772	7.91E-47	Fibroblasts PHLDA1	0.082
4.72E-50	0.405809	0.792	0.704	9.44E-47	Fibroblasts NORAD	0.088
8.27E-50	0.3491	0.732	0.563	1.65E-46	Fibroblasts CPQ	0.169
1.98E-49	0.367732	0.982	0.838	3.96E-46	Fibroblasts CSTB	0.144
5.04E-49	0.50205	0.85	0.735	1.01E-45	Fibroblasts CTSC	0.115

2.21E-48	0.355178	0.781	0.668	4.42E-45	Fibroblasts QSOX1	0.113
6.10E-48	0.409563	0.995	0.903	1.22E-44	Fibroblasts IFITM1	0.092
1.03E-47	0.404549	0.887	0.806	2.06E-44	Fibroblasts CLTA	0.081
1.91E-47	0.409607	0.78	0.694	3.82E-44	Fibroblasts NME4	0.086
1.34E-46	0.284141	0.831	0.687	2.67E-43	Fibroblasts AGTRAP	0.144
2.29E-46	0.296885	0.772	0.634	4.58E-43	Fibroblasts GNG10	0.138
4.21E-46	0.308344	0.744	0.644	8.42E-43	Fibroblasts FHL3	0.1
5.77E-45	0.402179	0.908	0.76	1.15E-41	Fibroblasts PGAM1	0.148
9.92E-44	0.322049	0.942	0.843	1.98E-40	Fibroblasts MYADM	0.099
1.82E-43	0.345328	0.815	0.658	3.63E-40	Fibroblasts CTNNB1	0.157
1.26E-42	0.366907	0.802	0.676	2.52E-39	Fibroblasts CTSA	0.126
1.52E-41	0.344388	0.877	0.794	3.05E-38	Fibroblasts IER3	0.083
2.91E-41	0.358938	0.836	0.697	5.82E-38	Fibroblasts IMPDH2	0.139
1.17E-40	0.392452	0.771	0.674	2.33E-37	Fibroblasts REXO2	0.097
3.88E-40	0.367394	0.827	0.719	7.75E-37	Fibroblasts PDIA6	0.108
9.82E-40	0.264474	0.924	0.836	1.96E-36	Fibroblasts LGALS3	0.088
1.91E-39	0.350285	0.924	0.776	3.82E-36	Fibroblasts FKBP1A	0.148
2.26E-39	0.362215	0.753	0.554	4.52E-36	Fibroblasts IFI6	0.199
4.58E-39	0.389746	0.908	0.795	9.15E-36	Fibroblasts SOD2	0.113
1.39E-38	0.273448	0.965	0.784	2.79E-35	Fibroblasts ARPC5	0.181
2.35E-38	0.399971	0.947	0.904	4.69E-35	Fibroblasts TUBA1B	0.043
5.09E-37	0.39123	0.698	0.557	1.02E-33	Fibroblasts ITGA1	0.141
9.94E-37	0.284202	0.817	0.763	1.99E-33	Fibroblasts ETS2	0.054
2.47E-36	0.336278	0.958	0.873	4.94E-33	Fibroblasts NME2	0.085
1.33E-35	0.374915	0.728	0.671	2.65E-32	Fibroblasts WASL	0.057
6.91E-34	0.575209	0.991	0.978	1.38E-30	Fibroblasts FOS	0.013
2.06E-33	0.267812	0.82	0.684	4.12E-30	Fibroblasts SELENOS	0.136
2.58E-33	0.323306	0.843	0.707	5.16E-30	Fibroblasts UQCRC1	0.136
6.68E-33	0.270568	0.97	0.856	1.34E-29	Fibroblasts HMGN2	0.114
1.13E-32	0.296103	0.861	0.724	2.25E-29	Fibroblasts PHPT1	0.137
1.98E-32	0.365341	0.728	0.62	3.95E-29	Fibroblasts LPP	0.108
1.24E-31	0.293339	0.975	0.873	2.47E-28	Fibroblasts HSPA1A	0.102
1.40E-30	0.339452	0.776	0.764	2.81E-27	Fibroblasts EPS8	0.012
2.89E-30	0.273084	0.753	0.591	5.78E-27	Fibroblasts GSTO1	0.162
8.12E-30	0.305007	0.67	0.518	1.62E-26	Fibroblasts LMCD1	0.152
8.34E-30	0.354098	0.949	0.866	1.67E-26	Fibroblasts ZFAND5	0.083
1.60E-29	0.354799	0.774	0.673	3.19E-26	Fibroblasts SSRP1	0.101
4.98E-29	0.370344	0.795	0.747	9.97E-26	Fibroblasts ICAM1	0.048
5.02E-28	0.279371	0.698	0.624	1.00E-24	Fibroblasts TCEAL3	0.074
6.47E-28	0.265673	0.848	0.759	1.29E-24	Fibroblasts OSTC	0.089
2.26E-27	0.341357	0.78	0.686	4.52E-24	Fibroblasts TMED3	0.094
3.59E-26	0.294465	0.746	0.62	7.18E-23	Fibroblasts LMAN1	0.126
2.82E-25	0.281514	0.928	0.842	5.64E-22	Fibroblasts POMP	0.086
8.20E-24	0.327392	0.637	0.422	1.64E-20	Fibroblasts F2R	0.215
7.44E-23	0.320234	0.709	0.642	1.49E-19	Fibroblasts ZEB1	0.067
3.86E-22	0.376493	0.693	0.607	7.72E-19	Fibroblasts APLP2	0.086
1.71E-21	0.276205	0.698	0.681	3.41E-18	Fibroblasts TNFRSF120	0.017
1.17E-20	0.278563	0.704	0.655	2.34E-17	Fibroblasts ECE1	0.049
4.00E-10	0.263371	0.905	0.858	7.99E-07	Fibroblasts CDKN1A	0.047
1.64E-70	0.824398	0.975	0.759	3.29E-67	Mast cells AF213884	0.216
7.60E-63	0.681469	0.975	0.612	1.52E-59	Mast cells SLC44A1	0.363
1.88E-62	0.630018	0.967	0.638	3.77E-59	Mast cells GSTM2	0.329
3.71E-61	0.267094	0.984	0.643	7.42E-58	Mast cells UBAC1	0.341
3.09E-60	1.358892	0.926	0.5	6.19E-57	Mast cells LTC4S	0.426
4.38E-59	1.447693	0.967	0.735	8.76E-56	Mast cells GLUL	0.232
1.74E-58	0.426635	0.959	0.598	3.47E-55	Mast cells WDFY1	0.361

3.55E-58	1.820988	0.943	0.715	7.10E-55	Mast cells	HPGD	0.228
9.36E-58	0.941807	0.992	0.837	1.87E-54	Mast cells	NFKB1	0.155
1.13E-57	0.716666	0.975	0.691	2.26E-54	Mast cells	RIN3	0.284
2.52E-57	0.319924	0.984	0.658	5.05E-54	Mast cells	MTHFD1	0.326
4.38E-57	0.420956	0.967	0.653	8.76E-54	Mast cells	SIAH1	0.314
1.42E-56	1.260488	1	0.842	2.83E-53	Mast cells	NFKBIZ	0.158
1.10E-55	0.328031	0.984	0.684	2.19E-52	Mast cells	TCEAL8	0.3
3.16E-55	0.314347	0.967	0.737	6.32E-52	Mast cells	RRP12	0.23
7.11E-54	0.538335	0.992	0.705	1.42E-50	Mast cells	DUSP10	0.287
7.89E-54	0.316865	0.959	0.63	1.58E-50	Mast cells	WDR77	0.329
2.82E-53	0.297682	0.951	0.58	5.64E-50	Mast cells	DSE	0.371
3.94E-53	1.13423	1	0.756	7.88E-50	Mast cells	TIMP1	0.244
7.81E-53	0.859956	0.992	0.74	1.56E-49	Mast cells	NR4A3	0.252
1.18E-52	1.681854	0.975	0.871	2.35E-49	Mast cells	AREG	0.104
1.49E-52	0.277481	0.943	0.634	2.99E-49	Mast cells	TRERF1	0.309
3.98E-52	0.664059	0.934	0.665	7.97E-49	Mast cells	ADRB2	0.269
8.21E-52	0.966674	0.951	0.678	1.64E-48	Mast cells	TYROBP	0.273
1.30E-51	0.832992	1	0.991	2.61E-48	Mast cells	FTH1	0.009
2.85E-50	0.566781	0.959	0.626	5.71E-47	Mast cells	PCNX4	0.333
3.85E-50	1.169009	0.885	0.504	7.70E-47	Mast cells	VWA5A	0.381
5.30E-50	0.414443	0.975	0.67	1.06E-46	Mast cells	ZDHHC12	0.305
7.52E-50	0.584265	0.943	0.638	1.50E-46	Mast cells	GNA15	0.305
3.07E-49	0.623543	0.984	0.739	6.14E-46	Mast cells	IL4R	0.245
3.66E-49	0.410911	0.975	0.63	7.31E-46	Mast cells	STX11	0.345
4.57E-48	0.957971	0.926	0.64	9.14E-45	Mast cells	RNF130	0.286
1.17E-47	1.132261	0.91	0.667	2.34E-44	Mast cells	FCER1G	0.243
1.41E-47	0.380656	0.943	0.581	2.82E-44	Mast cells	RASSF2	0.362
1.77E-47	0.695155	0.959	0.747	3.55E-44	Mast cells	ICAM1	0.212
2.51E-46	0.35595	0.951	0.699	5.03E-43	Mast cells	3-Mar	0.252
2.77E-46	0.793614	0.951	0.671	5.54E-43	Mast cells	LMO4	0.28
1.13E-45	0.515267	0.984	0.763	2.26E-42	Mast cells	BCL3	0.221
1.45E-45	1.032047	0.992	0.896	2.90E-42	Mast cells	VIM	0.096
1.64E-45	0.85342	0.951	0.738	3.28E-42	Mast cells	SMIM3	0.213
1.94E-45	0.971102	0.992	0.855	3.88E-42	Mast cells	LMNA	0.137
3.88E-45	0.266566	0.959	0.707	7.76E-42	Mast cells	SPATS2L	0.252
7.60E-45	0.590154	0.975	0.662	1.52E-41	Mast cells	ANKRD28	0.313
1.49E-44	0.902681	0.926	0.694	2.98E-41	Mast cells	TENT5A	0.232
5.75E-44	0.593495	0.934	0.654	1.15E-40	Mast cells	IL18R1	0.28
1.15E-43	0.851963	0.984	0.818	2.31E-40	Mast cells	AC020916	0.166
1.31E-43	0.482096	0.926	0.683	2.62E-40	Mast cells	TSC22D2	0.243
7.65E-43	0.437681	0.918	0.643	1.53E-39	Mast cells	SPTLC2	0.275
9.01E-43	0.513425	0.893	0.535	1.80E-39	Mast cells	AC084033	0.358
5.99E-42	1.008222	0.992	0.844	1.20E-38	Mast cells	MYADM	0.148
2.28E-41	1.01921	0.943	0.724	4.55E-38	Mast cells	CD63	0.219
3.85E-41	0.451785	0.975	0.703	7.71E-38	Mast cells	TIPARP	0.272
9.00E-41	0.313577	0.984	0.738	1.80E-37	Mast cells	SHMT2	0.246
9.55E-41	0.862032	0.918	0.657	1.91E-37	Mast cells	ARHGAP1	0.261
1.46E-40	0.757069	0.902	0.618	2.92E-37	Mast cells	VAT1	0.284
1.83E-40	0.519818	0.885	0.631	3.66E-37	Mast cells	GNS	0.254
2.84E-40	0.767768	0.959	0.737	5.69E-37	Mast cells	GPR65	0.222
3.90E-40	0.661498	0.902	0.63	7.81E-37	Mast cells	BEX4	0.272
2.37E-39	0.829619	0.934	0.728	4.75E-36	Mast cells	CAPG	0.206
3.18E-39	0.929666	0.885	0.635	6.37E-36	Mast cells	CSF1	0.25
3.38E-39	0.789462	0.902	0.728	6.76E-36	Mast cells	CD9	0.174
6.11E-39	1.095563	0.984	0.854	1.22E-35	Mast cells	SOCS1	0.13
6.42E-39	0.645459	0.984	0.757	1.28E-35	Mast cells	MRPS6	0.227

1.80E-38	0.49262	0.943	0.629	3.61E-35	Mast cells	ARMCX3	0.314
1.87E-38	0.31542	0.951	0.688	3.74E-35	Mast cells	BCL2L1	0.263
3.24E-38	0.273641	0.975	0.717	6.49E-35	Mast cells	CDK4	0.258
5.54E-38	0.89504	0.951	0.724	1.11E-34	Mast cells	ALOX5AP	0.227
8.26E-38	0.940644	0.877	0.713	1.65E-34	Mast cells	BACE2	0.164
5.72E-37	0.337277	0.967	0.587	1.14E-33	Mast cells	RFTN1	0.38
5.94E-37	0.780456	0.951	0.712	1.19E-33	Mast cells	NPC2	0.239
7.99E-37	0.634783	0.959	0.704	1.60E-33	Mast cells	BHLHE40	0.255
8.66E-37	0.884379	0.992	0.919	1.73E-33	Mast cells	EGR1	0.073
8.79E-37	0.957017	1	0.978	1.76E-33	Mast cells	FOS	0.022
2.65E-36	0.279125	0.984	0.778	5.30E-33	Mast cells	DNAJB9	0.206
9.04E-36	0.523552	0.934	0.617	1.81E-32	Mast cells	ELMO1	0.317
4.29E-35	0.609861	0.926	0.703	8.57E-32	Mast cells	AP1S2	0.223
5.39E-35	0.377504	0.844	0.553	1.08E-31	Mast cells	STAP1	0.291
7.94E-35	0.286784	0.967	0.655	1.59E-31	Mast cells	NUCB2	0.312
4.08E-34	0.831599	0.951	0.767	8.16E-31	Mast cells	ANXA1	0.184
5.30E-34	0.369766	0.975	0.702	1.06E-30	Mast cells	MLEC	0.273
1.28E-33	0.895723	1	0.953	2.55E-30	Mast cells	FOSB	0.047
2.03E-33	0.761584	0.91	0.654	4.07E-30	Mast cells	CD82	0.256
3.55E-33	0.747742	0.992	0.816	7.11E-30	Mast cells	ANKRD37	0.176
6.02E-33	0.708423	0.984	0.848	1.20E-29	Mast cells	TSPYL2	0.136
8.64E-33	0.451845	1	0.995	1.73E-29	Mast cells	MALAT1	0.005
8.69E-33	0.583135	0.967	0.658	1.74E-29	Mast cells	HIF1A	0.309
1.03E-32	0.283618	0.951	0.653	2.06E-29	Mast cells	HTATIP2	0.298
1.22E-32	0.37641	0.967	0.837	2.45E-29	Mast cells	KLF4	0.13
1.70E-32	0.805137	0.918	0.76	3.40E-29	Mast cells	ZC3H12A	0.158
1.74E-32	0.421843	0.828	0.618	3.48E-29	Mast cells	ST3GAL4	0.21
3.28E-32	0.519157	0.943	0.72	6.57E-29	Mast cells	PRNP	0.223
6.46E-32	0.877985	0.992	0.925	1.29E-28	Mast cells	NR4A1	0.067
1.07E-30	0.381637	0.893	0.681	2.15E-27	Mast cells	TMEM154	0.212
2.62E-30	0.302879	0.877	0.636	5.25E-27	Mast cells	TBXAS1	0.241
7.78E-30	0.774824	0.967	0.79	1.56E-26	Mast cells	HSP90B1	0.177
1.14E-29	0.396755	0.893	0.694	2.27E-26	Mast cells	MAST4	0.199
1.57E-29	0.757436	0.893	0.71	3.14E-26	Mast cells	NSMCE1	0.183
1.61E-29	0.472378	0.992	0.975	3.22E-26	Mast cells	FTL	0.017
5.31E-29	0.463153	0.852	0.639	1.06E-25	Mast cells	PAK1	0.213
5.52E-28	0.648462	0.967	0.721	1.10E-24	Mast cells	BIRC3	0.246
6.16E-28	0.64157	0.861	0.618	1.23E-24	Mast cells	TNFSF10	0.243
1.12E-27	0.669147	0.967	0.757	2.23E-24	Mast cells	EMP3	0.21
4.73E-27	0.694544	1	0.924	9.47E-24	Mast cells	SRGN	0.076
5.55E-27	0.679935	0.975	0.82	1.11E-23	Mast cells	REL	0.155
9.77E-27	0.356571	0.934	0.76	1.95E-23	Mast cells	RBKS	0.174
9.94E-27	0.575034	0.836	0.593	1.99E-23	Mast cells	CD38	0.243
2.14E-26	0.909072	1	0.945	4.27E-23	Mast cells	BTG2	0.055
9.30E-26	0.654285	1	0.985	1.86E-22	Mast cells	JUN	0.015
1.11E-25	0.410614	0.902	0.652	2.21E-22	Mast cells	PSMD1	0.25
1.45E-25	0.266481	0.926	0.698	2.89E-22	Mast cells	NFKB2	0.228
3.26E-25	0.692713	0.992	0.947	6.52E-22	Mast cells	NFKBIA	0.045
3.63E-25	0.431632	0.91	0.74	7.26E-22	Mast cells	SGK1	0.17
1.19E-24	0.408566	0.885	0.718	2.37E-21	Mast cells	DDAH2	0.167
2.27E-23	0.460009	0.836	0.646	4.54E-20	Mast cells	C1orf162	0.19
2.50E-23	0.622589	0.787	0.558	4.99E-20	Mast cells	ACSL4	0.229
3.75E-23	0.692616	1	0.947	7.50E-20	Mast cells	CD69	0.053
4.43E-23	0.294067	0.844	0.679	8.86E-20	Mast cells	ANXA4	0.165
4.79E-23	0.536091	0.836	0.587	9.59E-20	Mast cells	ZEB2	0.249
6.10E-23	0.645548	0.918	0.686	1.22E-19	Mast cells	AHNAK	0.232

1.14E-22	0.305666	0.91	0.692	2.29E-19	Mast cells	IFNGR1	0.218
1.17E-22	0.299779	0.934	0.766	2.35E-19	Mast cells	LYPLA1	0.168
1.27E-22	0.434109	0.984	0.885	2.55E-19	Mast cells	IFITM3	0.099
1.41E-22	0.498959	0.869	0.733	2.81E-19	Mast cells	AHR	0.136
2.49E-22	0.836612	1	0.877	4.98E-19	Mast cells	TNFAIP3	0.123
1.03E-21	0.332476	0.893	0.765	2.06E-18	Mast cells	STMN1	0.128
1.07E-21	0.506975	0.91	0.673	2.14E-18	Mast cells	BST2	0.237
1.50E-21	0.32027	0.926	0.738	3.00E-18	Mast cells	CANX	0.188
1.62E-21	0.361553	0.951	0.801	3.24E-18	Mast cells	PSAP	0.15
2.10E-21	0.530125	0.918	0.726	4.20E-18	Mast cells	SAMSN1	0.192
2.83E-21	0.564991	0.926	0.792	5.66E-18	Mast cells	RGS2	0.134
3.45E-21	0.350518	0.975	0.751	6.91E-18	Mast cells	CDK2AP2	0.224
4.02E-21	0.420601	0.918	0.693	8.04E-18	Mast cells	CNIH1	0.225
1.70E-20	0.29501	0.902	0.666	3.40E-17	Mast cells	IFNGR2	0.236
2.10E-20	0.406803	0.811	0.675	4.21E-17	Mast cells	FAM110A	0.136
2.36E-20	0.328298	0.91	0.752	4.73E-17	Mast cells	DDX39A	0.158
2.55E-20	0.417512	0.934	0.728	5.10E-17	Mast cells	NR3C1	0.206
5.94E-20	0.422364	0.934	0.797	1.19E-16	Mast cells	MTHFD2	0.137
1.02E-19	0.474816	0.893	0.777	2.03E-16	Mast cells	TWISTNB	0.116
1.39E-19	0.387243	0.803	0.717	2.77E-16	Mast cells	LAT2	0.086
1.56E-19	0.350849	0.844	0.552	3.11E-16	Mast cells	IGFLR1	0.292
1.76E-19	0.501429	0.844	0.728	3.52E-16	Mast cells	LAPTM4A	0.116
1.30E-18	0.478473	0.828	0.685	2.59E-15	Mast cells	TESPA1	0.143
2.25E-18	0.37422	0.828	0.712	4.50E-15	Mast cells	LAIR1	0.116
4.47E-18	0.499245	0.918	0.766	8.95E-15	Mast cells	PLIN2	0.152
2.15E-17	0.466278	0.779	0.568	4.30E-14	Mast cells	ARHGEF6	0.211
3.30E-17	0.314053	0.943	0.709	6.60E-14	Mast cells	FKBP2	0.234
5.66E-17	0.428774	0.951	0.78	1.13E-13	Mast cells	MT2A	0.171
6.59E-17	0.48222	0.738	0.584	1.32E-13	Mast cells	BTK	0.154
1.31E-16	0.329685	0.811	0.663	2.63E-13	Mast cells	MBOAT7	0.148
2.29E-16	0.506374	0.926	0.857	4.58E-13	Mast cells	HSPA5	0.069
1.26E-15	0.410162	1	0.952	2.53E-12	Mast cells	IER2	0.048
3.28E-15	0.335099	0.77	0.631	6.56E-12	Mast cells	SWAP70	0.139
3.70E-15	0.387571	0.943	0.774	7.40E-12	Mast cells	SYTL3	0.169
4.42E-15	0.362527	0.82	0.674	8.84E-12	Mast cells	BCL2A1	0.146
1.30E-14	0.322997	0.828	0.714	2.60E-11	Mast cells	SIL1	0.114
3.20E-14	0.300197	0.885	0.739	6.41E-11	Mast cells	CHST12	0.146
3.68E-14	0.360463	0.779	0.672	7.37E-11	Mast cells	ALAS1	0.107
1.10E-13	0.33176	1	0.857	2.21E-10	Mast cells	CREM	0.143
1.53E-13	0.432615	0.828	0.763	3.07E-10	Mast cells	TSC22D1	0.065
1.88E-13	0.377522	0.828	0.739	3.76E-10	Mast cells	DNAJB4	0.089
2.89E-13	0.308916	0.943	0.802	5.79E-10	Mast cells	TKT	0.141
1.29E-12	0.504227	0.992	0.892	2.58E-09	Mast cells	DUSP2	0.1
2.70E-12	0.413186	0.738	0.587	5.40E-09	Mast cells	BLVRA	0.151
1.29E-10	0.274065	0.689	0.556	2.58E-07	Mast cells	ATP8B4	0.133
2.65E-10	0.315748	0.967	0.859	5.30E-07	Mast cells	CDKN1A	0.108
1.54E-09	0.306843	0.967	0.819	3.07E-06	Mast cells	DBI	0.148
2.45E-09	0.34815	0.975	0.895	4.90E-06	Mast cells	NR4A2	0.08
2.88E-06	0.274064	0.951	0.916	0.005766	Mast cells	DDIT4	0.035
0	2.635493	0.993	0.669	0	Myeloid ce	TYROBP	0.324
0	2.174833	0.992	0.755	0	Myeloid ce	HLA-DRA	0.237
0	2.060709	0.989	0.775	0	Myeloid ce	HLA-DRB	0.214
0	1.996107	0.972	0.768	0	Myeloid ce	HLA-DPA	0.204
0	1.968425	1	0.974	0	Myeloid ce	FTL	0.026
0	1.911501	0.987	0.796	0	Myeloid ce	PSAP	0.191
0	1.904417	0.994	0.876	0	Myeloid ce	CD74	0.118

0	1.750975	0.97	0.642	0	Myeloid ce AIF1	0.328
0	1.695424	0.955	0.581	0	Myeloid ce IFI30	0.374
0	1.689474	0.964	0.736	0	Myeloid ce HLA-DPB10.228	
0	1.658015	0.96	0.705	0	Myeloid ce NPC2	0.255
0	1.640785	0.949	0.678	0	Myeloid ce HLA-DRB:0.271	
0	1.618813	0.954	0.658	0	Myeloid ce FCER1G	0.296
0	1.618725	0.97	0.679	0	Myeloid ce HLA-DQB	0.291
0	1.47173	0.945	0.696	0	Myeloid ce GRN	0.249
0	1.303426	0.972	0.63	0	Myeloid ce RNF130	0.342
0	1.292071	0.983	0.674	0	Myeloid ce HLA-DMB0.309	
0	1.242159	0.938	0.746	0	Myeloid ce FCGRT	0.192
0	1.225109	0.962	0.689	0	Myeloid ce HLA-DMA0.273	
0	1.193854	0.998	0.93	0	Myeloid ce SAT1	0.068
0	1.192666	0.95	0.675	0	Myeloid ce CTSS	0.275
0	1.103897	0.999	0.991	0	Myeloid ce FTH1	0.008
0	1.097281	0.943	0.584	0	Myeloid ce LST1	0.359
0	1.019238	0.943	0.627	0	Myeloid ce CTSZ	0.316
0	0.895292	0.905	0.425	0	Myeloid ce FGL2	0.48
0	0.891351	0.939	0.637	0	Myeloid ce C1orf162	0.302
0	0.580387	0.941	0.555	0	Myeloid ce NUDT16	0.386
0	0.558058	0.939	0.615	0	Myeloid ce CCRL2	0.324
0	0.53094	0.948	0.567	0	Myeloid ce GPR34	0.381
0	0.37829	0.902	0.585	0	Myeloid ce PLD4	0.317
6.42E-306	1.102897	0.93	0.675	1.28E-302	Myeloid ce CTSD	0.255
1.03E-305	0.326607	0.949	0.62	2.05E-302	Myeloid ce NFKBIE	0.329
1.99E-304	0.706817	0.922	0.628	3.99E-301	Myeloid ce TBXAS1	0.294
6.02E-304	0.456186	0.96	0.66	1.20E-300	Myeloid ce PRCP	0.3
1.96E-302	0.733463	0.949	0.662	3.92E-299	Myeloid ce MFSD1	0.287
3.87E-302	1.356594	0.953	0.658	7.74E-299	Myeloid ce LGALS1	0.295
1.49E-300	0.848186	0.913	0.58	2.99E-297	Myeloid ce PLEK	0.333
5.30E-298	0.856756	0.892	0.61	1.06E-294	Myeloid ce HMOX1	0.282
7.95E-297	1.167439	0.951	0.729	1.59E-293	Myeloid ce GLUL	0.222
1.04E-296	0.552985	0.888	0.59	2.07E-293	Myeloid ce CLEC7A	0.298
3.07E-296	0.291859	0.939	0.636	6.15E-293	Myeloid ce FHL3	0.303
2.92E-292	0.50072	0.902	0.52	5.83E-289	Myeloid ce C3AR1	0.382
1.15E-290	0.754971	0.902	0.625	2.30E-287	Myeloid ce RAB31	0.277
2.56E-287	0.496167	0.956	0.706	5.13E-284	Myeloid ce ARL5B	0.25
2.55E-281	0.576988	0.955	0.765	5.10E-278	Myeloid ce LYN	0.19
4.78E-275	1.022486	0.937	0.671	9.56E-272	Myeloid ce ASAH1	0.266
2.35E-270	1.10408	0.959	0.792	4.71E-267	Myeloid ce SOD2	0.167
2.44E-269	0.450161	0.934	0.659	4.88E-266	Myeloid ce AP1B1	0.275
7.03E-268	0.709435	0.927	0.577	1.41E-264	Myeloid ce ZEB2	0.35
1.98E-266	0.609475	0.962	0.781	3.96E-263	Myeloid ce MAN2B1	0.181
2.42E-258	0.320269	0.871	0.442	4.84E-255	Myeloid ce CAMK1	0.429
4.65E-256	1.600782	0.92	0.721	9.30E-253	Myeloid ce CTSB	0.199
1.72E-254	0.334143	0.926	0.738	3.44E-251	Myeloid ce GRASP	0.188
1.92E-251	0.302745	0.883	0.641	3.85E-248	Myeloid ce 1-Mar	0.242
1.20E-250	0.285866	0.904	0.571	2.40E-247	Myeloid ce RASSF2	0.333
2.05E-249	0.396361	0.931	0.655	4.09E-246	Myeloid ce MBOAT7	0.276
2.36E-246	0.58501	0.914	0.645	4.71E-243	Myeloid ce PGD	0.269
4.94E-245	0.918413	0.953	0.731	9.88E-242	Myeloid ce ITGB2	0.222
1.69E-244	0.47022	0.887	0.611	3.38E-241	Myeloid ce BASP1	0.276
3.02E-241	0.395557	0.916	0.711	6.04E-238	Myeloid ce LAT2	0.205
4.58E-241	1.091177	0.894	0.642	9.16E-238	Myeloid ce CCL3	0.252
6.23E-239	0.62232	0.868	0.683	1.25E-235	Myeloid ce RNASE6	0.185
9.59E-236	0.410141	0.852	0.507	1.92E-232	Myeloid ce CCDC88A	0.345

2.77E-235	0.339988	0.896	0.553	5.54E-232	Myeloid ce HEXA	0.343
3.89E-235	1.314666	0.902	0.691	7.77E-232	Myeloid ce HLA-DQA	0.211
7.26E-235	0.615785	0.966	0.734	1.45E-231	Myeloid ce NR4A3	0.232
1.67E-233	0.398626	0.897	0.575	3.35E-230	Myeloid ce GCA	0.322
6.19E-229	0.88106	0.894	0.605	1.24E-225	Myeloid ce TYMP	0.289
9.78E-229	0.80956	0.92	0.713	1.96E-225	Myeloid ce CTSH	0.207
1.90E-227	0.494165	0.875	0.705	3.80E-224	Myeloid ce LY86	0.17
9.95E-227	0.854046	0.888	0.674	1.99E-223	Myeloid ce LGMN	0.214
4.53E-225	0.444809	0.87	0.566	9.06E-222	Myeloid ce ADA2	0.304
5.76E-225	0.418586	0.939	0.649	1.15E-221	Myeloid ce ARHGAP1	0.29
1.85E-223	0.291889	0.931	0.667	3.71E-220	Myeloid ce IRF8	0.264
6.99E-223	0.303598	0.914	0.631	1.40E-219	Myeloid ce STX7	0.283
1.23E-221	0.269948	0.913	0.606	2.46E-218	Myeloid ce MEF2A	0.307
6.97E-219	0.782037	0.922	0.649	1.39E-215	Myeloid ce PPT1	0.273
1.73E-215	0.535808	0.919	0.714	3.45E-212	Myeloid ce SLC16A3	0.205
2.57E-214	0.274127	0.914	0.592	5.14E-211	Myeloid ce FUOM	0.322
4.19E-214	0.956371	0.948	0.791	8.38E-211	Myeloid ce IER3	0.157
1.11E-213	0.508421	0.917	0.594	2.21E-210	Myeloid ce TPP1	0.323
5.38E-212	0.477557	0.941	0.644	1.08E-208	Myeloid ce AKR1B1	0.297
2.81E-208	0.745211	0.944	0.702	5.62E-205	Myeloid ce ANXA5	0.242
9.07E-208	0.334327	0.896	0.622	1.81E-204	Myeloid ce FUCA1	0.274
4.15E-207	0.935605	0.869	0.64	8.31E-204	Myeloid ce CTSL	0.229
4.48E-207	0.874541	0.968	0.834	8.95E-204	Myeloid ce CEBPD	0.134
1.36E-206	0.787129	0.926	0.753	2.73E-203	Myeloid ce GRINA	0.173
1.93E-206	0.449472	0.914	0.697	3.86E-203	Myeloid ce AP1S2	0.217
2.94E-206	0.673943	0.914	0.685	5.88E-203	Myeloid ce NINJ1	0.229
8.18E-206	0.409272	0.95	0.692	1.64E-202	Myeloid ce RASGEF11	0.258
8.10E-204	0.375231	0.876	0.624	1.62E-200	Myeloid ce GNS	0.252
1.24E-203	0.704142	0.971	0.84	2.49E-200	Myeloid ce CD83	0.131
2.08E-201	0.340389	0.925	0.667	4.16E-198	Myeloid ce FAM110A	0.258
2.69E-198	0.375696	0.865	0.641	5.38E-195	Myeloid ce SYK	0.224
1.14E-196	0.454605	0.862	0.634	2.27E-193	Myeloid ce THEMIS2	0.228
6.35E-195	0.687388	0.914	0.698	1.27E-191	Myeloid ce PYCARD	0.216
2.87E-194	0.628384	0.917	0.759	5.73E-191	Myeloid ce ETS2	0.158
8.10E-193	0.336422	0.911	0.677	1.62E-189	Myeloid ce ABHD12	0.234
9.14E-192	0.496245	0.937	0.685	1.83E-188	Myeloid ce IFNGR1	0.252
3.55E-188	0.683559	0.91	0.743	7.10E-185	Myeloid ce ICAM1	0.167
1.14E-186	0.29255	0.882	0.698	2.28E-183	Myeloid ce MEF2C	0.184
1.70E-186	0.545494	0.95	0.768	3.39E-183	Myeloid ce COMT	0.182
3.09E-185	0.265256	0.877	0.652	6.17E-182	Myeloid ce ENG	0.225
2.74E-182	0.319304	0.926	0.682	5.49E-179	Myeloid ce AGTRAP	0.244
3.99E-182	0.870581	0.988	0.902	7.97E-179	Myeloid ce S100A11	0.086
4.57E-181	0.399383	0.841	0.515	9.14E-178	Myeloid ce SNX10	0.326
3.83E-178	0.337041	0.951	0.834	7.66E-175	Myeloid ce KLF4	0.117
6.74E-177	0.401999	0.941	0.683	1.35E-173	Myeloid ce CRTAP	0.258
6.81E-176	0.483458	0.863	0.684	1.36E-172	Myeloid ce CREG1	0.179
1.21E-174	0.651357	0.96	0.746	2.42E-171	Myeloid ce YWHAH	0.214
6.63E-174	0.444438	0.947	0.718	1.33E-170	Myeloid ce GLRX	0.229
7.56E-174	0.673943	0.961	0.836	1.51E-170	Myeloid ce RNASET2	0.125
2.56E-172	0.874608	0.921	0.718	5.13E-169	Myeloid ce CD63	0.203
6.97E-172	0.375286	0.924	0.658	1.39E-168	Myeloid ce SERPINB9	0.266
7.17E-172	0.505873	0.953	0.754	1.43E-168	Myeloid ce RBKS	0.199
1.57E-171	0.414443	0.865	0.615	3.13E-168	Myeloid ce LGALS9	0.25
2.60E-169	0.36186	0.953	0.736	5.21E-166	Myeloid ce SPINT2	0.217
7.90E-169	0.677903	0.933	0.722	1.58E-165	Myeloid ce CAPG	0.211
1.38E-168	1.112959	0.971	0.868	2.77E-165	Myeloid ce AREG	0.103

1.25E-165	0.283665	0.93	0.749	2.51E-162	Myeloid ce EIF4EBP1	0.181
1.39E-165	0.371787	0.947	0.683	2.79E-162	Myeloid ce JAML	0.264
1.28E-164	1.038174	0.908	0.752	2.56E-161	Myeloid ce TIMP1	0.156
1.15E-162	0.556509	0.857	0.661	2.31E-159	Myeloid ce IFNGR2	0.196
1.50E-162	0.701073	0.972	0.836	3.01E-159	Myeloid ce COTL1	0.136
3.42E-160	0.650156	0.966	0.8	6.84E-157	Myeloid ce PKM	0.166
2.73E-158	0.348662	0.858	0.621	5.45E-155	Myeloid ce SCPEP1	0.237
5.99E-156	0.36923	0.921	0.717	1.20E-152	Myeloid ce SNX2	0.204
6.20E-156	0.521347	0.921	0.706	1.24E-152	Myeloid ce MGAT1	0.215
2.63E-153	0.652611	0.956	0.831	5.27E-150	Myeloid ce LITAF	0.125
2.98E-152	0.873641	0.848	0.669	5.95E-149	Myeloid ce BCL2A1	0.179
2.13E-151	0.36351	0.903	0.766	4.27E-148	Myeloid ce BRI3	0.137
1.44E-150	0.369501	0.9	0.663	2.87E-147	Myeloid ce NCOA4	0.237
2.42E-148	0.735266	0.919	0.782	4.84E-145	Myeloid ce NAMPT	0.137
3.68E-147	0.386741	0.914	0.668	7.35E-144	Myeloid ce CD4	0.246
5.93E-147	0.299171	0.917	0.748	1.19E-143	Myeloid ce GLA	0.169
8.50E-147	0.321936	0.809	0.51	1.70E-143	Myeloid ce SKAP2	0.299
1.00E-146	0.70818	0.93	0.761	2.00E-143	Myeloid ce PLIN2	0.169
4.16E-146	0.405423	0.801	0.592	8.32E-143	Myeloid ce ACSL1	0.209
1.87E-144	0.57418	0.904	0.735	3.74E-141	Myeloid ce SGK1	0.169
1.07E-143	0.571188	0.9	0.671	2.14E-140	Myeloid ce CTSA	0.229
5.93E-143	0.430857	0.9	0.759	1.19E-139	Myeloid ce GK	0.141
3.60E-140	0.53284	0.864	0.702	7.19E-137	Myeloid ce PPIF	0.162
2.61E-138	0.413423	0.925	0.72	5.23E-135	Myeloid ce CCL4	0.205
1.83E-137	0.411277	0.886	0.714	3.65E-134	Myeloid ce PTPRE	0.172
2.15E-136	0.408771	0.941	0.702	4.30E-133	Myeloid ce UQCRC1	0.239
1.60E-134	0.534043	0.958	0.842	3.19E-131	Myeloid ce CEBPB	0.116
2.84E-134	0.636637	0.937	0.754	5.67E-131	Myeloid ce ANXA2	0.183
6.59E-134	0.598236	0.932	0.792	1.32E-130	Myeloid ce KDM6B	0.14
1.63E-132	0.485557	1	0.987	3.26E-129	Myeloid ce ACTB	0.013
4.76E-132	0.563283	0.903	0.752	9.52E-129	Myeloid ce AP2S1	0.151
2.13E-131	0.276985	0.897	0.655	4.26E-128	Myeloid ce SEC14L1	0.242
1.44E-130	0.499303	0.903	0.676	2.89E-127	Myeloid ce AKR1A1	0.227
2.85E-130	0.281565	0.955	0.757	5.70E-127	Myeloid ce PTMS	0.198
1.77E-128	0.4678	0.837	0.601	3.54E-125	Myeloid ce APLP2	0.236
8.70E-128	0.433102	0.835	0.651	1.74E-124	Myeloid ce BID	0.184
8.23E-126	0.606422	0.885	0.675	1.65E-122	Myeloid ce PLD3	0.21
7.33E-124	0.570303	0.943	0.665	1.47E-120	Myeloid ce BST2	0.278
6.63E-122	0.475671	0.949	0.783	1.33E-118	Myeloid ce ARPC5	0.166
1.04E-121	0.695561	0.953	0.73	2.08E-118	Myeloid ce CTSC	0.223
1.82E-120	0.347744	0.865	0.691	3.64E-117	Myeloid ce ATP2B1-A	0.174
3.53E-119	0.305226	0.959	0.781	7.06E-116	Myeloid ce PER1	0.178
1.21E-118	0.518135	0.953	0.803	2.41E-115	Myeloid ce CLTA	0.15
3.45E-118	0.5492	0.937	0.788	6.90E-115	Myeloid ce RGS2	0.149
1.79E-115	0.502925	0.904	0.743	3.58E-112	Myeloid ce VSIR	0.161
6.91E-115	0.282393	0.876	0.745	1.38E-111	Myeloid ce BLVRB	0.131
4.21E-110	0.348574	0.931	0.761	8.42E-107	Myeloid ce RILPL2	0.17
4.94E-108	0.52402	0.892	0.726	9.89E-105	Myeloid ce TALDO1	0.166
4.05E-107	0.285198	0.816	0.623	8.11E-104	Myeloid ce ATP6V1B20	0.193
2.95E-106	0.326337	0.899	0.735	5.89E-103	Myeloid ce HSBP1	0.164
1.52E-102	0.429888	0.936	0.786	3.04E-99	Myeloid ce SYNGR2	0.15
1.15E-100	0.277465	0.777	0.575	2.30E-97	Myeloid ce DSE	0.202
2.18E-97	0.383798	0.972	0.855	4.36E-94	Myeloid ce GSTP1	0.117
1.62E-96	0.439633	0.928	0.798	3.24E-93	Myeloid ce TKT	0.13
3.33E-96	0.340696	0.907	0.733	6.66E-93	Myeloid ce CANX	0.174
1.12E-95	0.352029	0.93	0.766	2.24E-92	Myeloid ce MYDGF	0.164

1.20E-93	0.498371	0.948	0.781	2.39E-90	Myeloid ce LSP1	0.167
9.83E-93	0.425821	0.891	0.714	1.97E-89	Myeloid ce SERPINB1	0.177
5.77E-92	0.314704	0.916	0.759	1.15E-88	Myeloid ce CHMP1B	0.157
1.71E-90	0.294034	0.881	0.68	3.42E-87	Myeloid ce SAMHD1	0.201
3.16E-88	0.358406	0.927	0.781	6.32E-85	Myeloid ce TPM4	0.146
1.55E-87	0.59111	0.853	0.704	3.10E-84	Myeloid ce ACP5	0.149
8.56E-87	0.301785	0.778	0.581	1.71E-83	Myeloid ce BLVRA	0.197
2.92E-84	0.276128	0.96	0.801	5.85E-81	Myeloid ce JPT1	0.159
8.00E-83	0.418862	0.987	0.951	1.60E-79	Myeloid ce H3F3A	0.036
4.67E-82	0.421446	0.892	0.732	9.34E-79	Myeloid ce ATOX1	0.16
3.27E-80	0.47844	0.934	0.718	6.55E-77	Myeloid ce ALOX5AP	0.216
5.40E-80	0.602109	0.758	0.565	1.08E-76	Myeloid ce CCL4L2	0.193
1.02E-78	0.292624	0.945	0.834	2.04E-75	Myeloid ce FABP5	0.111
3.22E-77	0.468737	0.994	0.922	6.44E-74	Myeloid ce SRGN	0.072
3.23E-76	0.324223	0.956	0.815	6.45E-73	Myeloid ce DBI	0.141
3.61E-75	0.319138	0.999	0.993	7.23E-72	Myeloid ce TMSB10	0.006
8.59E-75	0.322653	0.954	0.868	1.72E-71	Myeloid ce RAC1	0.086
6.30E-74	0.395118	0.933	0.752	1.26E-70	Myeloid ce EMP3	0.181
2.37E-71	0.304943	0.934	0.807	4.73E-68	Myeloid ce EIF4A3	0.127
1.13E-65	0.349362	0.976	0.897	2.27E-62	Myeloid ce SLC25A5	0.079
1.20E-65	0.461251	0.934	0.839	2.41E-62	Myeloid ce CSTB	0.095
4.12E-64	0.316206	0.976	0.843	8.24E-61	Myeloid ce ATP5MC3	0.133
1.74E-63	0.322145	0.977	0.894	3.49E-60	Myeloid ce VIM	0.083
2.41E-57	0.395469	0.976	0.872	4.82E-54	Myeloid ce HSPA1A	0.104
5.49E-57	0.356874	0.945	0.817	1.10E-53	Myeloid ce REL	0.128
2.37E-56	0.476485	0.752	0.627	4.74E-53	Myeloid ce LIPA	0.125
3.20E-55	0.266155	0.769	0.589	6.40E-52	Myeloid ce GSTO1	0.18
6.35E-55	0.280526	0.984	0.855	1.27E-51	Myeloid ce HMGN2	0.129
1.18E-54	0.299162	1	0.988	2.36E-51	Myeloid ce TMSB4X	0.012
4.32E-54	0.279024	0.718	0.563	8.64E-51	Myeloid ce TNFSF13B	0.155
5.05E-43	0.414082	0.822	0.769	1.01E-39	Myeloid ce UPP1	0.053
3.50E-33	0.309787	0.62	0.378	7.01E-30	Myeloid ce CALHM6	0.242
4.33E-30	0.302821	0.959	0.903	8.67E-27	Myeloid ce TUBA1B	0.056
0	2.328513	0.995	0.758	0	NK cells NKG7	0.237
0	2.107638	0.98	0.598	0	NK cells KLRD1	0.382
5.07E-298	2.824422	0.975	0.723	1.01E-294	NK cells GNLY	0.252
1.69E-272	1.596004	0.966	0.673	3.39E-269	NK cells TYROBP	0.293
3.31E-261	1.675957	0.953	0.661	6.61E-258	NK cells PRF1	0.292
3.77E-242	1.47914	0.944	0.69	7.53E-239	NK cells CTSW	0.254
4.58E-233	1.462226	0.921	0.657	9.16E-230	NK cells CLIC3	0.264
3.05E-232	1.729674	0.939	0.735	6.10E-229	NK cells GZMB	0.204
1.56E-216	2.031765	0.975	0.869	3.13E-213	NK cells AREG	0.106
6.43E-215	1.305068	0.96	0.698	1.29E-211	NK cells CST7	0.262
5.55E-208	1.199604	0.897	0.663	1.11E-204	NK cells FCER1G	0.234
5.68E-202	2.187539	0.937	0.722	1.14E-198	NK cells CCL4	0.215
5.47E-201	0.715249	0.856	0.602	1.09E-197	NK cells PTGDR	0.254
4.42E-195	0.694422	0.847	0.503	8.84E-192	NK cells IGFBP2	0.344
9.14E-193	1.390989	0.991	0.89	1.83E-189	NK cells DUSP2	0.101
1.19E-186	1.23834	0.987	0.816	2.39E-183	NK cells CD7	0.171
3.70E-181	1.363008	0.901	0.695	7.40E-178	NK cells SPON2	0.206
5.90E-175	0.999215	0.906	0.761	1.18E-171	NK cells TMIGD2	0.145
1.38E-169	0.897969	0.993	0.923	2.77E-166	NK cells SRGN	0.07
1.20E-166	1.745118	0.858	0.645	2.40E-163	NK cells CCL3	0.213
4.65E-164	0.954737	0.876	0.674	9.30E-161	NK cells TXK	0.202
3.44E-163	1.016109	0.897	0.715	6.88E-160	NK cells CMC1	0.182
4.90E-155	0.932932	0.944	0.833	9.81E-152	NK cells LITAF	0.111

6.39E-149	0.91	0.973	0.852	1.28E-145	NK cells	SOCS1	0.121
1.11E-145	1.003679	0.939	0.779	2.22E-142	NK cells	CCL5	0.16
1.73E-142	0.794184	0.951	0.836	3.46E-139	NK cells	CEBPD	0.115
8.20E-140	0.959989	0.991	0.967	1.64E-136	NK cells	ZFP36	0.024
8.76E-137	0.908656	0.858	0.652	1.75E-133	NK cells	HOPX	0.206
9.36E-137	0.44539	0.825	0.681	1.87E-133	NK cells	GFOD1	0.144
1.12E-132	0.791747	0.923	0.772	2.25E-129	NK cells	SYTL3	0.151
1.25E-131	0.852866	0.917	0.795	2.50E-128	NK cells	CD247	0.122
9.26E-130	0.726499	0.973	0.903	1.85E-126	NK cells	IFITM1	0.07
1.69E-128	0.400971	0.85	0.742	3.38E-125	NK cells	GRASP	0.108
2.40E-122	0.295476	0.825	0.671	4.79E-119	NK cells	TLE1	0.154
3.81E-114	0.794281	0.95	0.809	7.62E-111	NK cells	KLRB1	0.141
7.46E-113	0.609191	0.795	0.647	1.49E-109	NK cells	AOAH	0.148
2.58E-111	0.518097	0.811	0.663	5.15E-108	NK cells	ADRB2	0.148
2.58E-110	0.545855	0.858	0.737	5.16E-107	NK cells	CHST12	0.121
3.67E-107	0.366234	1	0.982	7.34E-104	NK cells	MT-CO1	0.018
3.33E-105	0.870044	0.87	0.702	6.66E-102	NK cells	GZMA	0.168
3.71E-104	0.776346	0.95	0.894	7.43E-101	NK cells	NR4A2	0.056
1.16E-98	0.689486	0.98	0.952	2.32E-95	NK cells	IER2	0.028
1.45E-98	0.734685	0.993	0.961	2.90E-95	NK cells	DUSP1	0.032
1.60E-95	0.604738	0.868	0.758	3.20E-92	NK cells	RBKS	0.11
1.38E-91	0.498244	0.807	0.653	2.76E-88	NK cells	PLAC8	0.154
1.76E-91	0.755198	0.96	0.902	3.53E-88	NK cells	GADD45B	0.058
7.38E-90	0.66672	0.814	0.662	1.48E-86	NK cells	IL2RB	0.152
4.30E-86	0.596477	0.85	0.735	8.60E-83	NK cells	GPR65	0.115
1.86E-81	0.346094	0.786	0.69	3.72E-78	NK cells	RIN3	0.096
5.01E-81	0.613673	0.924	0.848	1.00E-77	NK cells	PMAIP1	0.076
5.95E-81	0.37671	0.834	0.69	1.19E-77	NK cells	ZBTB16	0.144
2.01E-79	0.598618	0.991	0.946	4.01E-76	NK cells	CD69	0.045
2.07E-78	0.604494	0.995	0.978	4.14E-75	NK cells	FOS	0.017
3.75E-78	0.32181	0.822	0.71	7.50E-75	NK cells	LAIR1	0.112
1.22E-77	0.760918	0.975	0.945	2.43E-74	NK cells	BTG2	0.03
1.74E-77	0.448291	0.894	0.816	3.48E-74	NK cells	H2AFX	0.078
6.74E-77	0.575182	0.915	0.803	1.35E-73	NK cells	LCP1	0.112
1.01E-75	0.493331	0.953	0.882	2.01E-72	NK cells	CITED2	0.071
2.90E-75	0.526115	0.899	0.778	5.81E-72	NK cells	CLEC2B	0.121
5.34E-75	0.582821	0.962	0.915	1.07E-71	NK cells	DDIT4	0.047
1.95E-74	0.312671	0.85	0.758	3.91E-71	NK cells	FAM53C	0.092
3.37E-72	0.499878	0.874	0.768	6.74E-69	NK cells	UPP1	0.106
5.71E-71	0.543753	0.827	0.718	1.14E-67	NK cells	EFHD2	0.109
5.50E-70	0.428095	0.753	0.651	1.10E-66	NK cells	PTGER2	0.102
6.79E-70	0.370355	0.82	0.765	1.36E-66	NK cells	PXN	0.055
3.37E-69	0.26749	0.825	0.703	6.75E-66	NK cells	SH3BP1	0.122
1.13E-66	0.533541	0.777	0.637	2.26E-63	NK cells	APOBEC3	0.14
1.31E-66	0.48753	0.84	0.739	2.63E-63	NK cells	SH2D2A	0.101
5.01E-66	0.307939	0.843	0.695	1.00E-62	NK cells	S1PR4	0.148
7.45E-66	0.392449	0.84	0.707	1.49E-62	NK cells	ABI3	0.133
3.41E-64	0.435374	0.912	0.814	6.82E-61	NK cells	ID2	0.098
6.91E-64	0.388777	0.802	0.704	1.38E-60	NK cells	GABARAF	0.098
2.16E-63	0.614264	0.955	0.901	4.32E-60	NK cells	KLF2	0.054
2.22E-63	0.383333	0.903	0.842	4.44E-60	NK cells	DDIT3	0.061
1.81E-60	0.483248	0.755	0.758	3.63E-57	NK cells	ADGRG1	-0.003
4.33E-60	0.293458	0.829	0.681	8.65E-57	NK cells	LYST	0.148
6.90E-60	0.333368	0.832	0.698	1.38E-56	NK cells	RASGEF1	0.134
2.05E-59	0.28971	0.845	0.762	4.10E-56	NK cells	BCL3	0.083
6.72E-59	0.39786	0.712	0.589	1.34E-55	NK cells	PLEK	0.123

1.07E-58	0.632515	0.98	0.947	2.14E-55	NK cells	NFKBIA	0.033
3.19E-57	0.440445	0.885	0.758	6.39E-54	NK cells	ZC3H12A	0.127
1.91E-55	0.540243	0.865	0.722	3.83E-52	NK cells	ALOX5AP	0.143
4.75E-54	0.302591	0.741	0.665	9.50E-51	NK cells	LPCAT1	0.076
1.66E-53	0.389281	0.917	0.856	3.32E-50	NK cells	RHOB	0.061
3.98E-53	0.410181	0.759	0.695	7.95E-50	NK cells	GLIPR2	0.064
1.35E-52	0.285736	0.789	0.718	2.70E-49	NK cells	PTPRE	0.071
2.50E-52	0.338808	0.807	0.689	5.00E-49	NK cells	TNFRSF180	0.118
6.82E-52	0.332242	0.987	0.953	1.36E-48	NK cells	PFN1	0.034
1.23E-51	0.335107	0.883	0.791	2.46E-48	NK cells	RGS2	0.092
4.33E-51	0.452722	0.726	0.585	8.67E-48	NK cells	ZEB2	0.141
2.02E-48	0.384048	0.829	0.711	4.03E-45	NK cells	SLA	0.118
5.05E-45	0.315291	0.814	0.747	1.01E-41	NK cells	ICAM1	0.067
7.57E-45	0.296564	0.809	0.702	1.51E-41	NK cells	TIPARP	0.107
2.11E-44	0.434299	0.822	0.722	4.21E-41	NK cells	GNG2	0.1
6.75E-44	0.386464	0.798	0.759	1.35E-40	NK cells	MAP3K8	0.039
1.31E-43	0.548268	0.863	0.766	2.63E-40	NK cells	ANXA1	0.097
1.50E-43	0.371437	0.975	0.953	3.00E-40	NK cells	FOSB	0.022
4.19E-43	0.36128	0.787	0.704	8.37E-40	NK cells	BHLHE40	0.083
2.67E-42	0.305244	0.82	0.711	5.35E-39	NK cells	PIM1	0.109
4.61E-42	0.531264	0.912	0.882	9.22E-39	NK cells	RGCC	0.03
6.41E-41	0.37273	0.759	0.704	1.28E-37	NK cells	LYAR	0.055
9.77E-41	0.266173	0.856	0.766	1.95E-37	NK cells	GIMAP7	0.09
9.22E-40	0.356396	0.823	0.736	1.84E-36	NK cells	ITGB2	0.087
4.46E-39	0.317779	0.807	0.697	8.91E-36	NK cells	ARL4C	0.11
2.27E-38	0.314679	0.818	0.754	4.54E-35	NK cells	PTP4A1	0.064
2.44E-37	0.296879	0.942	0.887	4.87E-34	NK cells	TAGAP	0.055
3.71E-37	0.374685	0.996	0.982	7.42E-34	NK cells	JUNB	0.014
1.23E-36	0.332035	0.721	0.718	2.47E-33	NK cells	LAT2	0.003
1.26E-36	0.301561	0.712	0.636	2.51E-33	NK cells	RNF125	0.076
1.11E-35	0.354362	0.924	0.866	2.21E-32	NK cells	LDHA	0.058
3.45E-35	0.287587	0.854	0.733	6.91E-32	NK cells	GLIPR1	0.121
8.36E-35	0.279266	0.773	0.681	1.67E-31	NK cells	DOK2	0.092
1.85E-34	0.466509	0.894	0.778	3.71E-31	NK cells	MT2A	0.116
2.95E-34	0.488029	0.915	0.841	5.89E-31	NK cells	NFKBIZ	0.074
3.01E-34	0.294169	0.95	0.925	6.01E-31	NK cells	NR4A1	0.025
4.50E-34	0.329432	0.76	0.72	8.99E-31	NK cells	SLC16A3	0.04
1.76E-33	0.32021	0.874	0.806	3.53E-30	NK cells	XBP1	0.068
6.24E-33	0.283224	0.764	0.736	1.25E-29	NK cells	RUNX3	0.028
3.08E-31	0.344439	0.912	0.878	6.17E-28	NK cells	ATF3	0.034
9.30E-31	0.294323	0.852	0.837	1.86E-27	NK cells	NFKB1	0.015
9.23E-27	0.583777	0.645	0.57	1.85E-23	NK cells	CCL4L2	0.075
5.33E-26	0.268278	0.742	0.692	1.07E-22	NK cells	IFNGR1	0.05
3.51E-25	0.315316	0.67	0.604	7.01E-22	NK cells	TPST2	0.066
1.37E-24	0.271255	0.831	0.778	2.74E-21	NK cells	NEU1	0.053
2.22E-23	0.263659	0.98	0.956	4.44E-20	NK cells	KLF6	0.024
1.51E-22	0.39598	0.946	0.919	3.03E-19	NK cells	EGR1	0.027
1.32E-17	0.266828	0.946	0.874	2.64E-14	NK cells	HSPA1A	0.072
1.75E-12	0.32228	0.989	0.985	3.49E-09	NK cells	JUN	0.004
0	1.843763	0.956	0.755	0	T cells	IL7R	0.201
0	1.692324	0.939	0.763	0	T cells	CD3D	0.176
0	1.504735	0.826	0.709	0	T cells	CCL5	0.117
0	1.413319	0.963	0.808	0	T cells	IL32	0.155
0	1.282829	0.958	0.743	0	T cells	TNFAIP3	0.215
0	1.16029	0.852	0.746	0	T cells	KLRB1	0.106
0	1.116741	0.906	0.774	0	T cells	S100A4	0.132

0	1.067105	0.891	0.702	0	T cells	CD7	0.189
0	1.04126	0.816	0.763	0	T cells	BATF	0.053
0	0.996307	0.779	0.583	0	T cells	GZMA	0.196
0	0.951372	0.93	0.804	0	T cells	RGCC	0.126
0	0.914015	0.844	0.711	0	T cells	SPOCK2	0.133
0	0.908658	0.982	0.829	0	T cells	SRGN	0.153
0	0.85693	0.876	0.752	0	T cells	RGS1	0.124
0	0.817469	0.847	0.735	0	T cells	TRBC2	0.112
0	0.790858	0.816	0.692	0	T cells	RORA	0.124
0	0.777678	0.99	0.937	0	T cells	DNAJB1	0.053
0	0.773213	0.838	0.65	0	T cells	ANXA1	0.188
0	0.771848	0.912	0.766	0	T cells	CREM	0.146
0	0.770515	0.843	0.657	0	T cells	LAT	0.186
0	0.759128	0.832	0.663	0	T cells	GIMAP7	0.169
0	0.699581	0.841	0.726	0	T cells	CD247	0.115
0	0.68482	0.978	0.897	0	T cells	NFKBIA	0.081
0	0.684003	0.85	0.632	0	T cells	AQP3	0.218
0	0.683002	0.933	0.801	0	T cells	CITED2	0.132
0	0.673505	0.947	0.859	0	T cells	CORO1A	0.088
0	0.667473	0.756	0.565	0	T cells	ITM2A	0.191
0	0.661322	0.811	0.715	0	T cells	SYTL3	0.096
0	0.642573	0.926	0.826	0	T cells	TAGAP	0.1
0	0.633949	0.728	0.664	0	T cells	CST7	0.064
0	0.613463	0.746	0.667	0	T cells	DUSP4	0.079
0	0.605766	0.771	0.693	0	T cells	SH2D2A	0.078
0	0.60437	0.948	0.799	0	T cells	DUSP2	0.149
0	0.600451	0.729	0.564	0	T cells	TNFRSF4	0.165
0	0.594523	0.735	0.637	0	T cells	ITK	0.098
0	0.593671	0.84	0.712	0	T cells	CD27	0.128
0	0.591493	0.984	0.911	0	T cells	KLF6	0.073
0	0.580975	0.803	0.669	0	T cells	SCML4	0.134
0	0.568496	0.814	0.582	0	T cells	SAMSN1	0.232
0	0.56475	0.775	0.655	0	T cells	TRAT1	0.12
0	0.555345	0.768	0.697	0	T cells	GIMAP4	0.071
0	0.549118	0.987	0.935	0	T cells	ZFP36	0.052
0	0.540688	0.908	0.766	0	T cells	SOCS1	0.142
0	0.535264	0.978	0.895	0	T cells	CD69	0.083
0	0.531173	0.897	0.773	0	T cells	TUBA4A	0.124
0	0.529931	0.977	0.916	0	T cells	PFN1	0.061
0	0.529697	0.832	0.672	0	T cells	PTGER4	0.16
0	0.527766	0.749	0.655	0	T cells	SLA	0.094
0	0.527515	0.71	0.543	0	T cells	TRAC	0.167
0	0.526894	0.897	0.789	0	T cells	CACYBP	0.108
0	0.521068	0.756	0.592	0	T cells	SLAMF1	0.164
0	0.520858	0.63	0.511	0	T cells	CTLA4	0.119
0	0.515418	0.783	0.73	0	T cells	PRDM1	0.053
0	0.509915	0.742	0.607	0	T cells	TNFRSF180.135	
0	0.503974	0.936	0.776	0	T cells	HSPA1A	0.16
0	0.497235	0.75	0.595	0	T cells	FLT3LG	0.155
0	0.494905	0.786	0.621	0	T cells	GNG2	0.165
0	0.493089	0.813	0.693	0	T cells	PTPN7	0.12
0	0.492529	0.839	0.712	0	T cells	FKBP5	0.127
0	0.479907	0.917	0.783	0	T cells	LDHA	0.134
0	0.477217	0.935	0.851	0	T cells	CD52	0.084
0	0.469643	0.793	0.707	0	T cells	TNFRSF1E0.086	
0	0.462558	0.764	0.67	0	T cells	NR3C1	0.094

0	0.456863	0.998	0.968	0	T cells	ACTB	0.03
0	0.456798	0.832	0.696	0	T cells	CLEC2B	0.136
0	0.442617	0.891	0.756	0	T cells	COTL1	0.135
0	0.440009	0.792	0.641	0	T cells	GLIPR1	0.151
0	0.438479	0.945	0.838	0	T cells	IFITM1	0.107
0	0.434616	0.754	0.61	0	T cells	ARL4C	0.144
0	0.424729	0.995	0.979	0	T cells	TMSB4X	0.016
0	0.423541	0.994	0.964	0	T cells	JUNB	0.03
0	0.422994	0.959	0.792	0	T cells	VIM	0.167
0	0.416427	0.795	0.713	0	T cells	TMIGD2	0.082
0	0.413754	0.796	0.631	0	T cells	LEF1	0.165
0	0.411255	0.885	0.739	0	T cells	PIM2	0.146
0	0.410618	0.833	0.761	0	T cells	LCP1	0.072
0	0.408919	0.794	0.674	0	T cells	PASK	0.12
0	0.408145	0.988	0.936	0	T cells	ACTG1	0.052
0	0.404651	0.853	0.677	0	T cells	LSP1	0.176
0	0.40267	0.904	0.804	0	T cells	ZNF331	0.1
0	0.400605	0.67	0.558	0	T cells	LINC01871	0.112
0	0.399986	0.803	0.624	0	T cells	IL6ST	0.179
0	0.397774	0.731	0.518	0	T cells	FAS	0.213
0	0.397038	0.732	0.521	0	T cells	GBP5	0.211
0	0.384783	0.803	0.687	0	T cells	TCF7	0.116
0	0.38268	0.723	0.618	0	T cells	DOK2	0.105
0	0.381525	0.739	0.561	0	T cells	CCL20	0.178
0	0.380374	0.83	0.643	0	T cells	ARID5B	0.187
0	0.378728	0.999	0.989	0	T cells	EEF1A1	0.01
0	0.378147	0.999	0.995	0	T cells	RPLP1	0.004
0	0.376446	0.913	0.834	0	T cells	SLC2A3	0.079
0	0.375108	0.835	0.729	0	T cells	GPR183	0.106
0	0.373128	0.71	0.523	0	T cells	LAG3	0.187
0	0.370667	0.838	0.698	0	T cells	ITGAE	0.14
0	0.370556	0.795	0.666	0	T cells	CORO1B	0.129
0	0.369132	0.724	0.558	0	T cells	CARD16	0.166
0	0.36865	0.739	0.613	0	T cells	ITGA4	0.126
0	0.366745	0.734	0.652	0	T cells	SIT1	0.082
0	0.352309	0.882	0.714	0	T cells	PDE4B	0.168
0	0.350744	0.716	0.653	0	T cells	GPRIN3	0.063
0	0.350488	0.867	0.693	0	T cells	UCP2	0.174
0	0.344644	0.766	0.627	0	T cells	PIM1	0.139
0	0.337341	0.801	0.609	0	T cells	FAM107B	0.192
0	0.335705	0.738	0.574	0	T cells	CD4	0.164
0	0.334863	0.767	0.568	0	T cells	JAML	0.199
0	0.32724	0.736	0.635	0	T cells	PDE3B	0.101
0	0.326753	0.729	0.589	0	T cells	FBLN7	0.14
0	0.320313	0.712	0.588	0	T cells	IL2RB	0.124
0	0.311624	0.832	0.693	0	T cells	FKBP1A	0.139
0	0.311178	0.812	0.682	0	T cells	PGAM1	0.13
0	0.308524	0.819	0.67	0	T cells	NKG7	0.149
0	0.306775	0.77	0.638	0	T cells	SUSD3	0.132
0	0.306315	0.719	0.63	0	T cells	TESPA1	0.089
0	0.30624	0.813	0.639	0	T cells	VSIR	0.174
0	0.304082	0.741	0.596	0	T cells	SAMHD1	0.145
0	0.302938	0.732	0.621	0	T cells	FAM129A	0.111
0	0.300813	0.662	0.484	0	T cells	GBP2	0.178
0	0.296323	0.772	0.68	0	T cells	GPR65	0.092
0	0.285603	0.698	0.602	0	T cells	JAK3	0.096

0	0.269898	0.709	0.551	0	T cells	TNIK	0.158
0	0.267442	0.762	0.611	0	T cells	LYAR	0.151
0	0.266899	0.689	0.534	0	T cells	TSPAN5	0.155
0	0.266362	0.813	0.682	0	T cells	RAB9A	0.131
0	0.264118	0.919	0.783	0	T cells	ZFAND5	0.136
1.07E-303	0.267656	0.926	0.779	2.14E-300	T cells	TUBA1A	0.147
4.23E-299	0.475993	0.798	0.734	8.45E-296	T cells	PHLDA1	0.064
5.26E-299	0.344054	0.783	0.663	1.05E-295	T cells	CTSC	0.12
3.63E-298	0.348669	0.748	0.718	7.26E-295	T cells	RUNX3	0.03
1.09E-294	0.40569	0.828	0.799	2.19E-291	T cells	LTB	0.029
2.04E-290	0.321194	0.992	0.966	4.08E-287	T cells	HSP90AA10	0.026
7.05E-290	0.354389	0.801	0.704	1.41E-286	T cells	HMGB2	0.097
9.65E-286	0.314135	0.736	0.663	1.93E-282	T cells	TNF	0.073
3.66E-284	0.311278	0.782	0.687	7.33E-281	T cells	BTG3	0.095
1.82E-279	0.432732	0.708	0.644	3.64E-276	T cells	CKLF	0.064
1.29E-278	0.354306	0.93	0.84	2.57E-275	T cells	H2AFZ	0.09
3.41E-278	0.269981	0.989	0.916	6.83E-275	T cells	DUSP1	0.073
1.55E-274	0.303747	0.785	0.678	3.09E-271	T cells	LDLRAD4	0.107
3.50E-274	0.297557	0.913	0.847	6.99E-271	T cells	RAN	0.066
3.58E-273	0.380272	0.656	0.545	7.15E-270	T cells	CD8B	0.111
9.11E-273	0.311074	0.75	0.63	1.82E-269	T cells	LIMS1	0.12
6.48E-272	0.337568	0.75	0.641	1.30E-268	T cells	RBPJ	0.109
1.87E-269	0.307301	0.674	0.584	3.73E-266	T cells	GALM	0.09
7.69E-267	0.44178	0.721	0.666	1.54E-263	T cells	CCR6	0.055
1.76E-264	0.415951	0.733	0.688	3.52E-261	T cells	CYTOR	0.045
3.94E-258	0.338337	0.662	0.555	7.87E-255	T cells	PTPN22	0.107
1.46E-249	0.267293	0.772	0.723	2.92E-246	T cells	PDE4D	0.049
3.38E-246	0.34051	0.636	0.563	6.77E-243	T cells	GPR171	0.073
9.91E-242	0.390197	0.738	0.704	1.98E-238	T cells	ALOX5AP	0.034
1.62E-239	0.376484	0.782	0.635	3.23E-236	T cells	CCL4	0.147
4.30E-210	0.272637	0.817	0.751	8.59E-207	T cells	H2AFV	0.066
9.37E-188	0.276383	0.756	0.698	1.87E-184	T cells	ERN1	0.058

Table S6. A list of 29 CSC marker genes associated with DSS

	p.value	HR	Low 95%CI	High 95%CI
PHLDA2	0.0442528	1.3100187	1.0069674	1.7042745
FKBP4	0.0084394	1.5981636	1.1274683	2.2653649
LMNA	0.0025966	1.9363306	1.2595856	2.9766744
BRI3	0.0360618	1.5789595	1.0301373	2.4201756
IER5L	0.0015373	1.6100161	1.1990875	2.1617703
EPS8L2	0.0201196	1.6566603	1.0823056	2.5358118
CPNE7	0.0409451	1.2064298	1.007753	1.4442754
LENG8	0.0181466	1.4400699	1.0641249	1.9488325
DDX11	0.0111707	1.7101988	1.1298694	2.5886001
HAGHL	0.0049022	1.3904706	1.1051657	1.7494286
HOOK2	0.0313762	1.6544065	1.0460095	2.6166692
BOP1	0.0299342	1.4216611	1.0347855	1.9531782
AC087239.1	0.000221	2.2479922	1.4626036	3.4551184
CEBPB	0.0361249	1.4619397	1.0248704	2.0854027
COMTD1	0.0363979	1.3209917	1.0177829	1.7145299
STXBP2	0.0159027	1.8457118	1.1215152	3.0375443
HSPB1	0.0123111	1.3835061	1.0729779	1.7839034
AGPAT2	0.028885	1.4823833	1.0413845	2.1101336
PLCG2	0.000493	1.7455357	1.2759943	2.3878592
PLEC	0.0011933	1.6686078	1.2242377	2.274274
NCOA7	0.0208422	0.7298907	0.5588279	0.9533177
USP38	0.0499219	0.6681203	0.4464461	0.9998625
HMGCS1	0.0364108	0.7422845	0.5614714	0.9813256
CD24	0.0007552	0.7193951	0.5939496	0.8713355
GFPT1	0.017982	0.6716049	0.4829437	0.9339664
ETS2	0.0007904	0.5840588	0.4266462	0.7995493
NUDT4	0.0248463	0.713533	0.531337	0.9582043
KIF9	0.0377269	0.6014288	0.3722994	0.9715746
GK	0.0208628	0.7033306	0.5218009	0.9480129