

Table S1. Primers used in the experiments.

Gene name		Primer sequence	Application
IL11	F	5'-GCGCTGTTCTCCTAACCCG-3'	qRT-PCR
	R	5'-GAGTCCAGACTGTGATCTCCG-3'	
GAPDH	F	5'-CAGGAGGCATTGCTGATGAT-3'	qRT-PCR
	R	5'-GAAGGCTGGGGCTCATTT-3'	
sh-IL11#1	sequence	5'-CAGAGGAGCAGACCGCAAAG-3'	sh-RNA
sh-IL11#2	sequence	5'-TGACGCTGAGGGACAAATT-3'	sh-RNA
sh-IL11#3	sequence	5'-TGAGCCTGGCCAGATACAG-3'	sh-RNA

Abbreviations: F: Forward; R: Reverse; qRT-PCR: quantitative real-time PCR; sh-RNA: short hairpin RNA;

Table_S2. GO terms and KEGG pathways

ONTOLOGY	ID	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	Count
BP	GO:0006959	143/655	380/18862	2.1E-111	1E-107	6.5E-108	143
BP	GO:0006956	106/655	178/18862	3.6E-109	8.4E-106	5.6E-106	106
BP	GO:0006958	95/655	141/18862	1.9E-105	2.9E-102	1.9E-102	95
BP	GO:0002455	96/655	156/18862	1E-100	1.17E-97	7.7E-98	96
BP	GO:0019724	108/655	226/18862	4.15E-97	3.87E-94	2.55E-94	108
BP	GO:0016064	107/655	223/18862	1.96E-96	1.52E-93	1.00E-93	107
BP	GO:0002460	129/655	367/18862	1.27E-95	8.47E-93	5.57E-93	129
BP	GO:0002449	121/655	360/18862	8.24E-87	4.81E-84	3.16E-84	121
BP	GO:0006909	122/655	381/18862	1.13E-84	5.88E-82	3.86E-82	122
BP	GO:0002377	90/655	198/18862	3.53E-78	1.65E-75	1.08E-75	90
BP	GO:0030449	72/655	115/18862	3.49E-76	1.48E-73	9.74E-74	72
BP	GO:0002440	101/655	286/18862	1.39E-74	5.41E-72	3.56E-72	101
BP	GO:0002920	75/655	138/18862	9.99E-73	3.58E-70	2.36E-70	75
BP	GO:0002697	114/655	465/18862	7.70E-65	2.57E-62	1.69E-62	114
BP	GO:0006910	61/655	98/18862	2.46E-64	7.66E-62	5.04E-62	61
BP	GO:0002429	115/655	481/18862	3.81E-64	1.04E-61	6.87E-62	115
BP	GO:0002757	115/655	481/18862	3.81E-64	1.04E-61	6.87E-62	115
BP	GO:0042742	99/655	344/18862	2.49E-63	6.46E-61	4.25E-61	99
BP	GO:0002696	105/655	401/18862	1.09E-62	2.67E-60	1.76E-60	105
BP	GO:0050867	106/655	412/18862	1.85E-62	4.32E-60	2.84E-60	106
BP	GO:0002431	65/655	145/18862	6.39E-56	1.42E-53	9.33E-54	65
BP	GO:0038094	64/655	140/18862	9.48E-56	2.01E-53	1.32E-53	64
BP	GO:0050871	65/655	150/18862	9.84E-55	2.00E-52	1.31E-52	65
BP	GO:0002433	63/655	139/18862	1.37E-54	2.56E-52	1.68E-52	63
BP	GO:0038096	63/655	139/18862	1.37E-54	2.56E-52	1.68E-52	63
BP	GO:0006898	89/655	328/18862	1.97E-54	3.53E-52	2.32E-52	89
BP	GO:0051251	92/655	356/18862	2.98E-54	5.14E-52	3.38E-52	92
BP	GO:0050864	71/655	193/18862	9.80E-54	1.63E-51	1.07E-51	71
BP	GO:0006911	59/655	126/18862	3.29E-52	5.28E-50	3.48E-50	59
BP	GO:0050853	59/655	134/18862	3.15E-50	4.89E-48	3.22E-48	59
BP	GO:0099024	59/655	135/18862	5.42E-50	8.15E-48	5.36E-48	59
BP	GO:0010324	59/655	143/18862	3.42E-48	4.99E-46	3.28E-46	59
BP	GO:0038095	60/655	169/18862	2.09E-44	2.95E-42	1.94E-42	60
BP	GO:0042113	79/655	326/18862	2.80E-44	3.84E-42	2.52E-42	79
BP	GO:0038093	69/655	239/18862	3.69E-44	4.92E-42	3.24E-42	69
BP	GO:0008037	68/655	232/18862	5.30E-44	6.87E-42	4.52E-42	68
BP	GO:0060326	71/655	306/18862	1.83E-38	2.30E-36	1.51E-36	71
BP	GO:0097529	55/655	218/18862	5.83E-32	7.16E-30	4.71E-30	55
BP	GO:0030595	55/655	226/18862	4.38E-31	5.23E-29	3.44E-29	55
BP	GO:0050851	64/655	323/18862	1.93E-30	2.25E-28	1.48E-28	64
BP	GO:0050920	52/655	224/18862	2.28E-28	2.59E-26	1.71E-26	52
BP	GO:0001819	68/655	437/18862	9.27E-26	1.03E-23	6.77E-24	68
BP	GO:1990868	34/655	97/18862	2.19E-25	2.32E-23	1.53E-23	34
BP	GO:1990869	34/655	97/18862	2.19E-25	2.32E-23	1.53E-23	34
BP	GO:0071621	37/655	124/18862	1.14E-24	1.18E-22	7.75E-23	37
BP	GO:0070098	32/655	88/18862	1.52E-24	1.54E-22	1.01E-22	32

BP	GO:0030593	34/655	103/18862	2.15E-24	2.13E-22	1.40E-22	34
BP	GO:0097530	39/655	148/18862	1.01E-23	9.77E-22	6.42E-22	39
BP	GO:0032496	56/655	326/18862	1.66E-23	1.58E-21	1.04E-21	56
BP	GO:1990266	35/655	123/18862	1.24E-22	1.15E-20	7.58E-21	35
BP	GO:0002237	56/655	346/18862	3.34E-22	3.05E-20	2.01E-20	56
BP	GO:0050727	57/655	366/18862	9.69E-22	8.70E-20	5.72E-20	57
BP	GO:0031349	56/655	361/18862	2.73E-21	2.40E-19	1.58E-19	56
BP	GO:0050921	35/655	139/18862	1.05E-20	9.03E-19	5.94E-19	35
BP	GO:0070374	41/655	210/18862	1.31E-19	1.11E-17	7.33E-18	41
BP	GO:0071674	39/655	190/18862	1.62E-19	1.35E-17	8.89E-18	39
BP	GO:0032102	56/655	394/18862	1.88E-19	1.54E-17	1.01E-17	56
BP	GO:0070371	50/655	320/18862	2.95E-19	2.37E-17	1.56E-17	50
BP	GO:0002685	40/655	205/18862	3.78E-19	2.99E-17	1.96E-17	40
BP	GO:0019730	33/655	142/18862	1.93E-18	1.50E-16	9.87E-17	33
BP	GO:0002548	24/655	68/18862	2.24E-18	1.71E-16	1.12E-16	24
BP	GO:0070372	47/655	301/18862	3.72E-18	2.80E-16	1.84E-16	47
BP	GO:0050673	56/655	428/18862	9.10E-18	6.73E-16	4.43E-16	56
BP	GO:0001935	37/655	191/18862	1.07E-17	7.82E-16	5.14E-16	37
BP	GO:0007204	47/655	310/18862	1.25E-17	8.95E-16	5.89E-16	47
BP	GO:0055074	57/655	454/18862	3.12E-17	2.21E-15	1.45E-15	57
BP	GO:0001936	35/655	177/18862	4.21E-17	2.93E-15	1.93E-15	35
BP	GO:0002688	29/655	119/18862	5.83E-17	4.00E-15	2.63E-15	29
BP	GO:0051480	48/655	344/18862	1.68E-16	1.13E-14	7.41E-15	48
BP	GO:0050729	30/655	133/18862	1.69E-16	1.13E-14	7.41E-15	30
BP	GO:0002683	52/655	403/18862	2.58E-16	1.69E-14	1.11E-14	52
BP	GO:0001938	27/655	108/18862	3.48E-16	2.26E-14	1.48E-14	27
BP	GO:0050679	36/655	203/18862	5.68E-16	3.61E-14	2.38E-14	36
BP	GO:0072507	58/655	499/18862	5.73E-16	3.61E-14	2.38E-14	58
BP	GO:0006874	54/655	442/18862	7.28E-16	4.53E-14	2.98E-14	54
BP	GO:0007188	38/655	230/18862	9.84E-16	6.04E-14	3.97E-14	38
BP	GO:0050678	49/655	374/18862	1.05E-15	6.37E-14	4.19E-14	49
BP	GO:0002687	29/655	133/18862	1.42E-15	8.49E-14	5.58E-14	29
BP	GO:0018108	48/655	369/18862	2.77E-15	1.63E-13	1.07E-13	48
BP	GO:0018212	48/655	372/18862	3.80E-15	2.22E-13	1.46E-13	48
BP	GO:0050918	21/655	67/18862	4.78E-15	2.75E-13	1.81E-13	21
BP	GO:0072503	55/655	480/18862	6.27E-15	3.57E-13	2.35E-13	55
BP	GO:0071222	34/655	197/18862	8.62E-15	4.84E-13	3.19E-13	34
BP	GO:0002690	23/655	91/18862	4.27E-14	2.37E-12	1.56E-12	23
BP	GO:0071216	36/655	233/18862	4.78E-14	2.62E-12	1.72E-12	36
BP	GO:0070661	42/655	312/18862	4.87E-14	2.64E-12	1.74E-12	42
BP	GO:0071219	34/655	209/18862	5.23E-14	2.80E-12	1.84E-12	34
BP	GO:0045785	49/655	425/18862	1.59E-13	8.43E-12	5.54E-12	49
BP	GO:0001818	45/655	367/18862	1.82E-13	9.52E-12	6.26E-12	45
BP	GO:0050922	19/655	64/18862	2.92E-13	1.52E-11	9.97E-12	19
BP	GO:0034341	32/655	197/18862	3.05E-13	1.56E-11	1.03E-11	32
BP	GO:0051897	30/655	175/18862	3.99E-13	2.02E-11	1.33E-11	30
BP	GO:0048846	15/655	37/18862	5.07E-13	2.51E-11	1.65E-11	15
BP	GO:1902284	15/655	37/18862	5.07E-13	2.51E-11	1.65E-11	15
BP	GO:0008217	30/655	177/18862	5.42E-13	2.66E-11	1.75E-11	30

BP	GO:0042116	23/655	102/18862	5.88E-13	2.86E-11	1.88E-11	23
BP	GO:0007159	44/655	366/18862	6.79E-13	3.26E-11	2.14E-11	44
BP	GO:0001667	51/655	473/18862	6.85E-13	3.26E-11	2.14E-11	51
BP	GO:0051047	39/655	295/18862	7.16E-13	3.37E-11	2.22E-11	39
BP	GO:0048841	14/655	32/18862	8.55E-13	3.99E-11	2.62E-11	14
BP	GO:0090066	52/655	493/18862	9.52E-13	4.40E-11	2.89E-11	52
BP	GO:0050731	31/655	193/18862	9.78E-13	4.47E-11	2.94E-11	31
BP	GO:0050919	16/655	46/18862	1.40E-12	6.35E-11	4.18E-11	16
BP	GO:1903037	41/655	330/18862	1.44E-12	6.42E-11	4.22E-11	41
BP	GO:0048660	28/655	160/18862	1.44E-12	6.42E-11	4.22E-11	28
BP	GO:0002831	47/655	420/18862	1.50E-12	6.61E-11	4.35E-11	47
BP	GO:0033002	33/655	222/18862	1.67E-12	7.26E-11	4.78E-11	33
BP	GO:0048659	28/655	162/18862	1.98E-12	8.55E-11	5.62E-11	28
BP	GO:0034612	40/655	320/18862	2.24E-12	9.58E-11	6.30E-11	40
BP	GO:1902105	37/655	279/18862	2.56E-12	1.09E-10	7.14E-11	37
BP	GO:0048247	18/655	64/18862	3.47E-12	1.46E-10	9.58E-11	18
BP	GO:0071356	38/655	296/18862	3.54E-12	1.47E-10	9.69E-11	38
BP	GO:1903706	46/655	415/18862	3.67E-12	1.51E-10	9.95E-11	46
BP	GO:1903532	36/655	271/18862	4.83E-12	1.98E-10	1.30E-10	36
BP	GO:1903039	33/655	234/18862	7.32E-12	2.97E-10	1.95E-10	33
BP	GO:0001659	28/655	171/18862	7.70E-12	3.10E-10	2.04E-10	28
BP	GO:0050730	35/655	262/18862	8.18E-12	3.26E-10	2.14E-10	35
BP	GO:0048638	39/655	319/18862	8.49E-12	3.36E-10	2.21E-10	39
BP	GO:0051091	35/655	266/18862	1.27E-11	4.96E-10	3.26E-10	35
BP	GO:0048640	22/655	107/18862	1.34E-11	5.22E-10	3.43E-10	22
BP	GO:0050886	19/655	78/18862	1.43E-11	5.50E-10	3.62E-10	19
BP	GO:0070663	33/655	241/18862	1.65E-11	6.33E-10	4.16E-10	33
BP	GO:0048843	12/655	26/18862	1.72E-11	6.53E-10	4.29E-10	12
BP	GO:0051896	33/655	247/18862	3.25E-11	1.21E-09	7.98E-10	33
BP	GO:0071526	14/655	40/18862	3.25E-11	1.21E-09	7.98E-10	14
BP	GO:1903131	44/655	411/18862	3.50E-11	1.29E-09	8.51E-10	44
BP	GO:0022409	35/655	276/18862	3.63E-11	1.33E-09	8.76E-10	35
BP	GO:0051092	26/655	159/18862	4.46E-11	1.63E-09	1.07E-09	26
BP	GO:0046651	35/655	282/18862	6.66E-11	2.41E-09	1.58E-09	35
BP	GO:0060284	48/655	485/18862	7.00E-11	2.51E-09	1.65E-09	48
BP	GO:0048771	27/655	175/18862	7.50E-11	2.67E-09	1.76E-09	27
BP	GO:0022407	45/655	437/18862	7.64E-11	2.70E-09	1.77E-09	45
BP	GO:0032147	38/655	328/18862	7.92E-11	2.78E-09	1.83E-09	38
BP	GO:0032943	35/655	285/18862	8.95E-11	3.12E-09	2.05E-09	35
BP	GO:0071346	27/655	177/18862	9.79E-11	3.38E-09	2.23E-09	27
BP	GO:0072676	22/655	118/18862	1.02E-10	3.49E-09	2.30E-09	22
BP	GO:0043406	31/655	230/18862	1.03E-10	3.51E-09	2.31E-09	31
BP	GO:0043491	34/655	273/18862	1.14E-10	3.85E-09	2.53E-09	34
BP	GO:0061844	18/655	78/18862	1.30E-10	4.36E-09	2.87E-09	18
BP	GO:0002699	30/655	219/18862	1.38E-10	4.60E-09	3.02E-09	30
BP	GO:0002822	25/655	155/18862	1.43E-10	4.73E-09	3.11E-09	25
BP	GO:0043405	36/655	307/18862	1.79E-10	5.88E-09	3.86E-09	36
BP	GO:0002446	48/655	499/18862	1.86E-10	6.08E-09	4.00E-09	48
BP	GO:0002819	26/655	170/18862	2.06E-10	6.66E-09	4.38E-09	26

BP	GO:0032609	21/655	112/18862	2.43E-10	7.81E-09	5.14E-09	21
BP	GO:1901342	38/655	341/18862	2.48E-10	7.91E-09	5.20E-09	38
BP	GO:0003044	14/655	46/18862	2.77E-10	8.80E-09	5.79E-09	14
BP	GO:0050870	29/655	212/18862	2.90E-10	9.15E-09	6.02E-09	29
BP	GO:0009615	39/655	359/18862	3.05E-10	9.54E-09	6.27E-09	39
BP	GO:0042110	46/655	474/18862	3.38E-10	1.05E-08	6.92E-09	46
BP	GO:0045088	36/655	315/18862	3.68E-10	1.14E-08	7.47E-09	36
BP	GO:0032612	22/655	126/18862	3.82E-10	1.17E-08	7.72E-09	22
BP	GO:0045766	26/655	175/18862	3.94E-10	1.19E-08	7.85E-09	26
BP	GO:1904018	26/655	175/18862	3.94E-10	1.19E-08	7.85E-09	26
BP	GO:0061387	20/655	104/18862	4.05E-10	1.22E-08	8.02E-09	20
BP	GO:0002833	32/655	258/18862	4.49E-10	1.34E-08	8.83E-09	32
BP	GO:0060389	16/655	65/18862	4.96E-10	1.47E-08	9.69E-09	16
BP	GO:0051607	32/655	260/18862	5.47E-10	1.61E-08	1.06E-08	32
BP	GO:0140546	32/655	260/18862	5.47E-10	1.61E-08	1.06E-08	32
BP	GO:0045765	37/655	335/18862	5.51E-10	1.61E-08	1.06E-08	37
BP	GO:0042119	47/655	500/18862	6.24E-10	1.81E-08	1.19E-08	47
BP	GO:0032649	20/655	107/18862	6.89E-10	1.98E-08	1.30E-08	20
BP	GO:0043312	46/655	485/18862	7.15E-10	2.05E-08	1.35E-08	46
BP	GO:0043434	43/655	435/18862	7.35E-10	2.09E-08	1.37E-08	43
BP	GO:0050670	29/655	221/18862	7.87E-10	2.22E-08	1.46E-08	29
BP	GO:0002283	46/655	488/18862	8.74E-10	2.45E-08	1.61E-08	46
BP	GO:0010631	38/655	357/18862	9.26E-10	2.59E-08	1.70E-08	38
BP	GO:0032944	29/655	223/18862	9.75E-10	2.71E-08	1.78E-08	29
BP	GO:0071902	35/655	311/18862	9.82E-10	2.71E-08	1.78E-08	35
BP	GO:0072593	33/655	281/18862	9.98E-10	2.74E-08	1.80E-08	33
BP	GO:0050863	36/655	327/18862	1.03E-09	2.82E-08	1.85E-08	36
BP	GO:0090132	38/655	360/18862	1.17E-09	3.18E-08	2.09E-08	38
BP	GO:0040013	39/655	377/18862	1.27E-09	3.42E-08	2.25E-08	39
BP	GO:0051090	43/655	444/18862	1.38E-09	3.70E-08	2.44E-08	43
BP	GO:0008361	25/655	173/18862	1.55E-09	4.13E-08	2.72E-08	25
BP	GO:0003073	18/655	90/18862	1.57E-09	4.16E-08	2.73E-08	18
BP	GO:0001990	12/655	36/18862	1.62E-09	4.27E-08	2.81E-08	12
BP	GO:0090130	38/655	365/18862	1.73E-09	4.54E-08	2.99E-08	38
BP	GO:1905952	26/655	189/18862	2.15E-09	5.54E-08	3.64E-08	26
BP	GO:0003018	30/655	245/18862	2.15E-09	5.54E-08	3.64E-08	30
BP	GO:0045926	30/655	245/18862	2.15E-09	5.54E-08	3.64E-08	30
BP	GO:0001503	40/655	401/18862	2.25E-09	5.73E-08	3.77E-08	40
BP	GO:0032613	15/655	62/18862	2.25E-09	5.73E-08	3.77E-08	15
BP	GO:0070482	39/655	385/18862	2.31E-09	5.85E-08	3.84E-08	39
BP	GO:0007200	19/655	103/18862	2.32E-09	5.85E-08	3.84E-08	19
BP	GO:0050770	23/655	151/18862	2.47E-09	6.20E-08	4.08E-08	23
BP	GO:0030099	41/655	419/18862	2.49E-09	6.21E-08	4.08E-08	41
BP	GO:0002573	27/655	204/18862	2.50E-09	6.21E-08	4.08E-08	27
BP	GO:0019932	34/655	307/18862	2.59E-09	6.40E-08	4.21E-08	34
BP	GO:0007631	18/655	93/18862	2.74E-09	6.71E-08	4.42E-08	18
BP	GO:0001558	40/655	406/18862	3.21E-09	7.85E-08	5.16E-08	40
BP	GO:0050764	18/655	94/18862	3.28E-09	7.96E-08	5.23E-08	18
BP	GO:0071900	45/655	492/18862	3.45E-09	8.33E-08	5.48E-08	45

BP	GO:0023061	44/655	475/18862	3.51E-09	8.45E-08	5.56E-08	44
BP	GO:1902107	23/655	154/18862	3.66E-09	8.70E-08	5.72E-08	23
BP	GO:1903708	23/655	154/18862	3.66E-09	8.70E-08	5.72E-08	23
BP	GO:0048588	28/655	222/18862	3.81E-09	9.01E-08	5.93E-08	28
BP	GO:0002221	27/655	208/18862	3.85E-09	9.06E-08	5.96E-08	27
BP	GO:0045089	28/655	223/18862	4.21E-09	9.87E-08	6.49E-08	28
BP	GO:0007189	22/655	143/18862	4.54E-09	1.06E-07	6.97E-08	22
BP	GO:0032652	20/655	119/18862	4.79E-09	1.11E-07	7.30E-08	20
BP	GO:0060560	28/655	225/18862	5.15E-09	1.19E-07	7.82E-08	28
BP	GO:0002224	23/655	157/18862	5.35E-09	1.23E-07	8.09E-08	23
BP	GO:0098801	11/655	32/18862	5.41E-09	1.24E-07	8.13E-08	11
BP	GO:0050767	36/655	348/18862	5.54E-09	1.26E-07	8.29E-08	36
BP	GO:0002700	22/655	146/18862	6.75E-09	1.53E-07	1.01E-07	22
BP	GO:0016049	43/655	470/18862	7.70E-09	1.73E-07	1.14E-07	43
BP	GO:0032680	23/655	160/18862	7.76E-09	1.74E-07	1.14E-07	23
BP	GO:0070665	22/655	148/18862	8.74E-09	1.95E-07	1.28E-07	22
BP	GO:0010634	24/655	175/18862	9.49E-09	2.09E-07	1.37E-07	24
BP	GO:0045619	24/655	175/18862	9.49E-09	2.09E-07	1.37E-07	24
BP	GO:0097696	24/655	175/18862	9.49E-09	2.09E-07	1.37E-07	24
BP	GO:0060759	25/655	189/18862	9.87E-09	2.15E-07	1.42E-07	25
BP	GO:0032640	23/655	162/18862	9.88E-09	2.15E-07	1.42E-07	23
BP	GO:0010632	32/655	293/18862	1.07E-08	2.33E-07	1.53E-07	32
BP	GO:0097305	28/655	233/18862	1.12E-08	2.41E-07	1.58E-07	28
BP	GO:0044060	11/655	34/18862	1.13E-08	2.41E-07	1.58E-07	11
BP	GO:0050777	22/655	150/18862	1.13E-08	2.41E-07	1.58E-07	22
BP	GO:0030098	36/655	358/18862	1.17E-08	2.49E-07	1.64E-07	36
BP	GO:0002825	10/655	27/18862	1.18E-08	2.50E-07	1.64E-07	10
BP	GO:0001959	24/655	177/18862	1.19E-08	2.51E-07	1.65E-07	24
BP	GO:1903555	23/655	164/18862	1.25E-08	2.63E-07	1.73E-07	23
BP	GO:0036293	36/655	360/18862	1.35E-08	2.83E-07	1.86E-07	36
BP	GO:0030517	12/655	43/18862	1.59E-08	3.31E-07	2.18E-07	12
BP	GO:1990845	22/655	153/18862	1.63E-08	3.38E-07	2.22E-07	22
BP	GO:0032306	7/655	11/18862	1.72E-08	3.54E-07	2.33E-07	7
BP	GO:0032308	7/655	11/18862	1.72E-08	3.54E-07	2.33E-07	7
BP	GO:0071706	23/655	167/18862	1.78E-08	3.64E-07	2.39E-07	23
BP	GO:0001666	35/655	348/18862	1.86E-08	3.79E-07	2.50E-07	35
BP	GO:0060393	14/655	62/18862	2.01E-08	4.08E-07	2.68E-07	14
BP	GO:0048754	21/655	143/18862	2.37E-08	4.78E-07	3.14E-07	21
BP	GO:0030308	24/655	185/18862	2.86E-08	5.74E-07	3.77E-07	24
BP	GO:0032675	22/655	158/18862	2.97E-08	5.94E-07	3.90E-07	22
BP	GO:0042100	17/655	96/18862	3.05E-08	6.06E-07	3.99E-07	17
BP	GO:0048661	17/655	96/18862	3.05E-08	6.06E-07	3.99E-07	17
BP	GO:0001763	24/655	186/18862	3.17E-08	6.27E-07	4.12E-07	24
BP	GO:0032611	18/655	108/18862	3.22E-08	6.33E-07	4.16E-07	18
BP	GO:0061138	23/655	173/18862	3.49E-08	6.84E-07	4.50E-07	23
BP	GO:0001755	13/655	55/18862	3.59E-08	7.01E-07	4.61E-07	13
BP	GO:0032755	16/655	86/18862	3.76E-08	7.27E-07	4.78E-07	16
BP	GO:0034103	16/655	86/18862	3.76E-08	7.27E-07	4.78E-07	16
BP	GO:0034694	10/655	30/18862	3.82E-08	7.35E-07	4.84E-07	10

BP	GO:0043542	30/655	278/18862	4.07E-08	7.81E-07	5.13E-07	30
BP	GO:0002285	24/655	189/18862	4.33E-08	8.28E-07	5.45E-07	24
BP	GO:0050671	20/655	135/18862	4.38E-08	8.34E-07	5.49E-07	20
BP	GO:0032635	22/655	162/18862	4.69E-08	8.89E-07	5.85E-07	22
BP	GO:0050771	14/655	66/18862	4.71E-08	8.89E-07	5.85E-07	14
BP	GO:0001774	12/655	47/18862	4.77E-08	8.97E-07	5.90E-07	12
BP	GO:0002702	17/655	99/18862	4.91E-08	9.19E-07	6.05E-07	17
BP	GO:0032946	20/655	136/18862	4.97E-08	9.27E-07	6.10E-07	20
BP	GO:0071675	18/655	111/18862	4.99E-08	9.27E-07	6.10E-07	18
BP	GO:0046887	19/655	124/18862	5.47E-08	1.01E-06	6.66E-07	19
BP	GO:0032660	11/655	39/18862	5.63E-08	1.04E-06	6.82E-07	11
BP	GO:0050766	14/655	67/18862	5.76E-08	1.06E-06	6.96E-07	14
BP	GO:0010862	12/655	48/18862	6.16E-08	1.13E-06	7.41E-07	12
BP	GO:0001906	23/655	179/18862	6.64E-08	1.21E-06	7.95E-07	23
BP	GO:2000379	17/655	101/18862	6.66E-08	1.21E-06	7.95E-07	17
BP	GO:0002703	25/655	209/18862	7.50E-08	1.36E-06	8.92E-07	25
BP	GO:0035296	19/655	127/18862	8.10E-08	1.45E-06	9.56E-07	19
BP	GO:0097746	19/655	127/18862	8.10E-08	1.45E-06	9.56E-07	19
BP	GO:0060485	30/655	287/18862	8.31E-08	1.48E-06	9.77E-07	30
BP	GO:0007171	7/655	13/18862	8.44E-08	1.50E-06	9.88E-07	7
BP	GO:0001823	16/655	91/18862	8.62E-08	1.52E-06	1.00E-06	16
BP	GO:0050927	9/655	25/18862	8.63E-08	1.52E-06	1.00E-06	9
BP	GO:0032535	35/655	370/18862	8.64E-08	1.52E-06	1.00E-06	35
BP	GO:0051960	38/655	422/18862	8.81E-08	1.54E-06	1.02E-06	38
BP	GO:0014032	15/655	80/18862	8.98E-08	1.57E-06	1.03E-06	15
BP	GO:0002695	23/655	182/18862	9.05E-08	1.57E-06	1.04E-06	23
BP	GO:0035150	19/655	128/18862	9.21E-08	1.60E-06	1.05E-06	19
BP	GO:0042088	11/655	41/18862	9.95E-08	1.72E-06	1.13E-06	11
BP	GO:0032874	18/655	116/18862	1.00E-07	1.73E-06	1.13E-06	18
BP	GO:0030516	16/655	92/18862	1.01E-07	1.73E-06	1.14E-06	16
BP	GO:0045637	28/655	258/18862	1.02E-07	1.74E-06	1.15E-06	28
BP	GO:0010720	30/655	290/18862	1.05E-07	1.78E-06	1.17E-06	30
BP	GO:0140353	15/655	81/18862	1.07E-07	1.81E-06	1.19E-06	15
BP	GO:0032615	13/655	60/18862	1.09E-07	1.82E-06	1.20E-06	13
BP	GO:0032653	13/655	60/18862	1.09E-07	1.82E-06	1.20E-06	13
BP	GO:0032655	13/655	60/18862	1.09E-07	1.82E-06	1.20E-06	13
BP	GO:0032303	8/655	19/18862	1.09E-07	1.82E-06	1.20E-06	8
BP	GO:0032368	21/655	156/18862	1.10E-07	1.84E-06	1.21E-06	21
BP	GO:0030198	36/655	393/18862	1.26E-07	2.10E-06	1.38E-06	36
BP	GO:0050926	9/655	26/18862	1.28E-07	2.11E-06	1.39E-06	9
BP	GO:0050866	24/655	200/18862	1.28E-07	2.12E-06	1.39E-06	24
BP	GO:0003014	18/655	118/18862	1.31E-07	2.13E-06	1.40E-06	18
BP	GO:0070304	18/655	118/18862	1.31E-07	2.13E-06	1.40E-06	18
BP	GO:0106106	20/655	144/18862	1.31E-07	2.13E-06	1.40E-06	20
BP	GO:0120161	20/655	144/18862	1.31E-07	2.13E-06	1.40E-06	20
BP	GO:0019731	13/655	61/18862	1.34E-07	2.17E-06	1.43E-06	13
BP	GO:0043062	36/655	394/18862	1.35E-07	2.17E-06	1.43E-06	36
BP	GO:0048864	15/655	83/18862	1.50E-07	2.40E-06	1.58E-06	15
BP	GO:0045229	36/655	396/18862	1.53E-07	2.45E-06	1.61E-06	36

BP	GO:0002526	17/655	107/18862	1.59E-07	2.54E-06	1.67E-06	17
BP	GO:0033138	17/655	107/18862	1.59E-07	2.54E-06	1.67E-06	17
BP	GO:0032602	16/655	95/18862	1.60E-07	2.55E-06	1.67E-06	16
BP	GO:0032310	7/655	14/18862	1.64E-07	2.57E-06	1.69E-06	7
BP	GO:0050930	7/655	14/18862	1.64E-07	2.57E-06	1.69E-06	7
BP	GO:0002437	13/655	62/18862	1.64E-07	2.57E-06	1.69E-06	13
BP	GO:0042698	13/655	62/18862	1.64E-07	2.57E-06	1.69E-06	13
BP	GO:0032620	11/655	43/18862	1.70E-07	2.65E-06	1.75E-06	11
BP	GO:0002718	15/655	84/18862	1.76E-07	2.73E-06	1.80E-06	15
BP	GO:0014031	15/655	84/18862	1.76E-07	2.73E-06	1.80E-06	15
BP	GO:0042554	10/655	35/18862	1.99E-07	3.08E-06	2.02E-06	10
BP	GO:0050829	15/655	85/18862	2.07E-07	3.19E-06	2.10E-06	15
BP	GO:0031348	26/655	236/18862	2.17E-07	3.32E-06	2.19E-06	26
BP	GO:0070555	24/655	206/18862	2.24E-07	3.43E-06	2.26E-06	24
BP	GO:0050830	16/655	98/18862	2.50E-07	3.81E-06	2.51E-06	16
BP	GO:0046879	30/655	302/18862	2.54E-07	3.86E-06	2.54E-06	30
BP	GO:0002286	17/655	111/18862	2.75E-07	4.15E-06	2.73E-06	17
BP	GO:0031623	17/655	111/18862	2.75E-07	4.15E-06	2.73E-06	17
BP	GO:0032760	15/655	87/18862	2.84E-07	4.28E-06	2.82E-06	15
BP	GO:0002824	16/655	99/18862	2.89E-07	4.33E-06	2.85E-06	16
BP	GO:0007259	21/655	166/18862	3.21E-07	4.80E-06	3.16E-06	21
BP	GO:1901653	35/655	391/18862	3.29E-07	4.91E-06	3.23E-06	35
BP	GO:0007260	15/655	88/18862	3.32E-07	4.93E-06	3.24E-06	15
BP	GO:0002686	11/655	46/18862	3.59E-07	5.31E-06	3.49E-06	11
BP	GO:0043032	9/655	29/18862	3.73E-07	5.51E-06	3.62E-06	9
BP	GO:0045621	16/655	101/18862	3.83E-07	5.64E-06	3.71E-06	16
BP	GO:0032642	15/655	89/18862	3.87E-07	5.66E-06	3.72E-06	15
BP	GO:0046849	15/655	89/18862	3.87E-07	5.66E-06	3.72E-06	15
BP	GO:0000187	20/655	154/18862	3.99E-07	5.81E-06	3.82E-06	20
BP	GO:0048675	17/655	114/18862	4.07E-07	5.92E-06	3.89E-06	17
BP	GO:0001894	27/655	260/18862	4.20E-07	6.08E-06	4.00E-06	27
BP	GO:0003081	8/655	22/18862	4.21E-07	6.08E-06	4.00E-06	8
BP	GO:0031640	13/655	67/18862	4.28E-07	6.16E-06	4.05E-06	13
BP	GO:0045639	16/655	102/18862	4.40E-07	6.32E-06	4.16E-06	16
BP	GO:0014033	15/655	90/18862	4.50E-07	6.41E-06	4.22E-06	15
BP	GO:1903557	15/655	90/18862	4.50E-07	6.41E-06	4.22E-06	15
BP	GO:0032651	16/655	103/18862	5.05E-07	7.18E-06	4.72E-06	16
BP	GO:0009914	30/655	312/18862	5.12E-07	7.23E-06	4.76E-06	30
BP	GO:0007599	32/655	346/18862	5.13E-07	7.23E-06	4.76E-06	32
BP	GO:0031649	7/655	16/18862	5.13E-07	7.23E-06	4.76E-06	7
BP	GO:0048762	25/655	231/18862	5.18E-07	7.28E-06	4.79E-06	25
BP	GO:0002821	16/655	104/18862	5.78E-07	8.09E-06	5.32E-06	16
BP	GO:0050769	24/655	217/18862	5.88E-07	8.21E-06	5.40E-06	24
BP	GO:0061041	18/655	131/18862	6.51E-07	9.06E-06	5.96E-06	18
BP	GO:0002367	15/655	93/18862	6.96E-07	9.66E-06	6.35E-06	15
BP	GO:0043030	12/655	59/18862	6.98E-07	9.66E-06	6.35E-06	12
BP	GO:0010721	21/655	174/18862	7.09E-07	9.75E-06	6.41E-06	21
BP	GO:0033209	21/655	174/18862	7.09E-07	9.75E-06	6.41E-06	21
BP	GO:0071622	11/655	49/18862	7.13E-07	9.78E-06	6.43E-06	11

BP	GO:1903793	39/655	478/18862	7.60E-07	1.04E-05	6.84E-06	39
BP	GO:0032735	10/655	40/18862	7.86E-07	1.07E-05	7.03E-06	10
BP	GO:1902895	10/655	40/18862	7.86E-07	1.07E-05	7.03E-06	10
BP	GO:0061098	12/655	60/18862	8.45E-07	1.14E-05	7.50E-06	12
BP	GO:0015732	7/655	17/18862	8.47E-07	1.14E-05	7.50E-06	7
BP	GO:0032305	7/655	17/18862	8.47E-07	1.14E-05	7.50E-06	7
BP	GO:0060337	15/655	95/18862	9.23E-07	1.24E-05	8.16E-06	15
BP	GO:2000377	22/655	192/18862	9.48E-07	1.27E-05	8.35E-06	22
BP	GO:0010743	9/655	32/18862	9.52E-07	1.27E-05	8.35E-06	9
BP	GO:0090022	9/655	32/18862	9.52E-07	1.27E-05	8.35E-06	9
BP	GO:1901654	22/655	193/18862	1.04E-06	1.38E-05	9.05E-06	22
BP	GO:0071357	15/655	96/18862	1.06E-06	1.40E-05	9.23E-06	15
BP	GO:0046330	14/655	84/18862	1.08E-06	1.43E-05	9.42E-06	14
BP	GO:0046850	11/655	51/18862	1.09E-06	1.44E-05	9.45E-06	11
BP	GO:1902893	11/655	51/18862	1.09E-06	1.44E-05	9.45E-06	11
BP	GO:1903034	20/655	164/18862	1.10E-06	1.44E-05	9.49E-06	20
BP	GO:0031100	13/655	73/18862	1.20E-06	1.57E-05	1.03E-05	13
BP	GO:0045807	15/655	97/18862	1.21E-06	1.58E-05	1.04E-05	15
BP	GO:0120162	15/655	97/18862	1.21E-06	1.58E-05	1.04E-05	15
BP	GO:1901215	22/655	195/18862	1.23E-06	1.60E-05	1.05E-05	22
BP	GO:0042509	14/655	85/18862	1.26E-06	1.62E-05	1.07E-05	14
BP	GO:1905332	9/655	33/18862	1.27E-06	1.64E-05	1.08E-05	9
BP	GO:0001867	6/655	12/18862	1.32E-06	1.70E-05	1.12E-05	6
BP	GO:0032656	7/655	18/18862	1.34E-06	1.72E-05	1.13E-05	7
BP	GO:0061614	11/655	52/18862	1.34E-06	1.72E-05	1.13E-05	11
BP	GO:0046883	26/655	260/18862	1.41E-06	1.79E-05	1.18E-05	26
BP	GO:0001657	14/655	86/18862	1.45E-06	1.85E-05	1.22E-05	14
BP	GO:0043123	21/655	182/18862	1.49E-06	1.89E-05	1.24E-05	21
BP	GO:0042102	15/655	99/18862	1.58E-06	2.00E-05	1.32E-05	15
BP	GO:0019722	22/655	198/18862	1.60E-06	2.01E-05	1.32E-05	22
BP	GO:0042129	20/655	168/18862	1.61E-06	2.03E-05	1.33E-05	20
BP	GO:0002720	11/655	53/18862	1.64E-06	2.06E-05	1.36E-05	11
BP	GO:0030217	25/655	246/18862	1.67E-06	2.09E-05	1.37E-05	25
BP	GO:0072163	14/655	87/18862	1.68E-06	2.09E-05	1.37E-05	14
BP	GO:0072164	14/655	87/18862	1.68E-06	2.09E-05	1.37E-05	14
BP	GO:0032732	12/655	64/18862	1.75E-06	2.17E-05	1.42E-05	12
BP	GO:0035710	15/655	100/18862	1.80E-06	2.23E-05	1.47E-05	15
BP	GO:0010594	24/655	231/18862	1.82E-06	2.24E-05	1.47E-05	24
BP	GO:0006968	11/655	54/18862	2.00E-06	2.46E-05	1.62E-05	11
BP	GO:0034340	15/655	101/18862	2.05E-06	2.52E-05	1.66E-05	15
BP	GO:0035813	7/655	19/18862	2.06E-06	2.53E-05	1.66E-05	7
BP	GO:0002755	9/655	35/18862	2.18E-06	2.67E-05	1.75E-05	9
BP	GO:0002706	19/655	157/18862	2.29E-06	2.78E-05	1.83E-05	19
BP	GO:0071887	15/655	102/18862	2.33E-06	2.83E-05	1.86E-05	15
BP	GO:0090092	25/655	251/18862	2.41E-06	2.92E-05	1.92E-05	25
BP	GO:0051235	29/655	319/18862	2.47E-06	2.98E-05	1.96E-05	29
BP	GO:0071624	8/655	27/18862	2.51E-06	3.01E-05	1.98E-05	8
BP	GO:0090025	8/655	27/18862	2.51E-06	3.01E-05	1.98E-05	8
BP	GO:1901214	28/655	302/18862	2.51E-06	3.01E-05	1.98E-05	28

BP	GO:0060986	10/655	45/18862	2.53E-06	3.03E-05	1.99E-05	10
BP	GO:0014068	14/655	90/18862	2.55E-06	3.04E-05	2.00E-05	14
BP	GO:0002709	13/655	78/18862	2.62E-06	3.11E-05	2.05E-05	13
BP	GO:0050772	13/655	78/18862	2.62E-06	3.11E-05	2.05E-05	13
BP	GO:0032892	9/655	36/18862	2.82E-06	3.34E-05	2.20E-05	9
BP	GO:0007187	12/655	67/18862	2.90E-06	3.42E-05	2.25E-05	12
BP	GO:2000514	12/655	67/18862	2.90E-06	3.42E-05	2.25E-05	12
BP	GO:0060760	11/655	56/18862	2.92E-06	3.43E-05	2.26E-05	11
BP	GO:0002456	15/655	104/18862	2.99E-06	3.50E-05	2.30E-05	15
BP	GO:0050728	19/655	160/18862	3.04E-06	3.54E-05	2.33E-05	19
BP	GO:0051048	19/655	160/18862	3.04E-06	3.54E-05	2.33E-05	19
BP	GO:0032616	7/655	20/18862	3.08E-06	3.56E-05	2.34E-05	7
BP	GO:0051767	7/655	20/18862	3.08E-06	3.56E-05	2.34E-05	7
BP	GO:0051769	7/655	20/18862	3.08E-06	3.56E-05	2.34E-05	7
BP	GO:0006953	10/655	46/18862	3.13E-06	3.62E-05	2.38E-05	10
BP	GO:0045580	18/655	146/18862	3.22E-06	3.70E-05	2.43E-05	18
BP	GO:0002761	16/655	118/18862	3.23E-06	3.70E-05	2.43E-05	16
BP	GO:0051928	16/655	118/18862	3.23E-06	3.70E-05	2.43E-05	16
BP	GO:0010595	17/655	132/18862	3.30E-06	3.77E-05	2.48E-05	17
BP	GO:0055017	14/655	92/18862	3.33E-06	3.80E-05	2.50E-05	14
BP	GO:0001649	23/655	223/18862	3.36E-06	3.82E-05	2.52E-05	23
BP	GO:0070997	30/655	342/18862	3.44E-06	3.90E-05	2.57E-05	30
BP	GO:0042531	12/655	69/18862	4.00E-06	4.53E-05	2.98E-05	12
BP	GO:0061097	14/655	94/18862	4.33E-06	4.89E-05	3.21E-05	14
BP	GO:1990138	19/655	164/18862	4.39E-06	4.95E-05	3.25E-05	19
BP	GO:0051051	35/655	438/18862	4.47E-06	5.03E-05	3.30E-05	35
BP	GO:0035812	7/655	21/18862	4.48E-06	5.03E-05	3.31E-05	7
BP	GO:0042098	21/655	195/18862	4.52E-06	5.04E-05	3.32E-05	21
BP	GO:0048511	27/655	294/18862	4.52E-06	5.04E-05	3.32E-05	27
BP	GO:0010742	9/655	38/18862	4.59E-06	5.06E-05	3.33E-05	9
BP	GO:0032733	9/655	38/18862	4.59E-06	5.06E-05	3.33E-05	9
BP	GO:0048246	9/655	38/18862	4.59E-06	5.06E-05	3.33E-05	9
BP	GO:0048286	9/655	38/18862	4.59E-06	5.06E-05	3.33E-05	9
BP	GO:0090077	9/655	38/18862	4.59E-06	5.06E-05	3.33E-05	9
BP	GO:0045123	12/655	70/18862	4.68E-06	5.15E-05	3.38E-05	12
BP	GO:0071347	20/655	180/18862	4.72E-06	5.17E-05	3.40E-05	20
BP	GO:0002673	10/655	48/18862	4.72E-06	5.17E-05	3.40E-05	10
BP	GO:0045834	18/655	150/18862	4.74E-06	5.17E-05	3.40E-05	18
BP	GO:0019216	33/655	402/18862	4.74E-06	5.17E-05	3.40E-05	33
BP	GO:0032872	20/655	181/18862	5.14E-06	5.58E-05	3.67E-05	20
BP	GO:0051962	25/655	263/18862	5.55E-06	6.02E-05	3.96E-05	25
BP	GO:0001961	10/655	49/18862	5.75E-06	6.22E-05	4.09E-05	10
BP	GO:0051961	17/655	138/18862	6.07E-06	6.53E-05	4.29E-05	17
BP	GO:0090288	15/655	110/18862	6.08E-06	6.53E-05	4.29E-05	15
BP	GO:1904892	15/655	110/18862	6.08E-06	6.53E-05	4.29E-05	15
BP	GO:0051250	18/655	153/18862	6.28E-06	6.74E-05	4.43E-05	18
BP	GO:0007249	26/655	282/18862	6.30E-06	6.74E-05	4.44E-05	26
BP	GO:0032700	7/655	22/18862	6.38E-06	6.79E-05	4.47E-05	7
BP	GO:0044062	7/655	22/18862	6.38E-06	6.79E-05	4.47E-05	7

BP	GO:0044406	6/655	15/18862	6.56E-06	6.95E-05	4.57E-05	6
BP	GO:0051770	6/655	15/18862	6.56E-06	6.95E-05	4.57E-05	6
BP	GO:0070302	20/655	184/18862	6.60E-06	6.97E-05	4.59E-05	20
BP	GO:1905954	15/655	111/18862	6.80E-06	7.18E-05	4.72E-05	15
BP	GO:0002705	16/655	125/18862	6.91E-06	7.27E-05	4.78E-05	16
BP	GO:0019229	11/655	61/18862	7.01E-06	7.33E-05	4.82E-05	11
BP	GO:0030888	11/655	61/18862	7.01E-06	7.33E-05	4.82E-05	11
BP	GO:1905330	11/655	61/18862	7.01E-06	7.33E-05	4.82E-05	11
BP	GO:0048639	19/655	170/18862	7.45E-06	7.77E-05	5.11E-05	19
BP	GO:0001655	28/655	320/18862	7.60E-06	7.91E-05	5.21E-05	28
BP	GO:0007178	30/655	358/18862	8.54E-06	8.88E-05	5.84E-05	30
BP	GO:0003071	7/655	23/18862	8.89E-06	9.18E-05	6.04E-05	7
BP	GO:0034695	7/655	23/18862	8.89E-06	9.18E-05	6.04E-05	7
BP	GO:0072677	7/655	23/18862	8.89E-06	9.18E-05	6.04E-05	7
BP	GO:0032689	9/655	41/18862	8.99E-06	9.26E-05	6.09E-05	9
BP	GO:0060419	14/655	100/18862	9.06E-06	9.30E-05	6.12E-05	14
BP	GO:0072001	26/655	288/18862	9.20E-06	9.43E-05	6.20E-05	26
BP	GO:0007596	29/655	342/18862	9.61E-06	9.83E-05	6.47E-05	29
BP	GO:0045670	11/655	63/18862	9.69E-06	9.87E-05	6.49E-05	11
BP	GO:0071677	11/655	63/18862	9.69E-06	9.87E-05	6.49E-05	11
BP	GO:0033135	17/655	143/18862	9.83E-06	9.99E-05	6.57E-05	17
BP	GO:0071375	28/655	325/18862	1.02E-05	0.000103	6.78E-05	28
BP	GO:0046634	14/655	101/18862	1.02E-05	0.000103	6.78E-05	14
BP	GO:0052547	35/655	455/18862	1.03E-05	0.000104	6.81E-05	35
BP	GO:0045582	13/655	88/18862	1.04E-05	0.000105	6.88E-05	13
BP	GO:1902622	9/655	42/18862	1.11E-05	0.000112	7.34E-05	9
BP	GO:0060395	12/655	76/18862	1.13E-05	0.000113	7.44E-05	12
BP	GO:0048525	13/655	89/18862	1.18E-05	0.000118	7.73E-05	13
BP	GO:0097306	13/655	89/18862	1.18E-05	0.000118	7.73E-05	13
BP	GO:0018105	27/655	310/18862	1.20E-05	0.000119	7.85E-05	27
BP	GO:0009620	10/655	53/18862	1.20E-05	0.000119	7.86E-05	10
BP	GO:1905517	10/655	53/18862	1.20E-05	0.000119	7.86E-05	10
BP	GO:0003094	7/655	24/18862	1.22E-05	0.00012	7.90E-05	7
BP	GO:0032753	7/655	24/18862	1.22E-05	0.00012	7.90E-05	7
BP	GO:0090023	7/655	24/18862	1.22E-05	0.00012	7.90E-05	7
BP	GO:0050817	29/655	347/18862	1.27E-05	0.000125	8.20E-05	29
BP	GO:0032729	11/655	65/18862	1.32E-05	0.00013	8.54E-05	11
BP	GO:0030336	28/655	330/18862	1.35E-05	0.000132	8.69E-05	28
BP	GO:0022602	9/655	43/18862	1.36E-05	0.000133	8.75E-05	9
BP	GO:0007411	25/655	277/18862	1.37E-05	0.000133	8.78E-05	25
BP	GO:0010977	16/655	132/18862	1.39E-05	0.000136	8.93E-05	16
BP	GO:0007162	26/655	295/18862	1.41E-05	0.000137	8.99E-05	26
BP	GO:0097485	25/655	278/18862	1.45E-05	0.000141	9.28E-05	25
BP	GO:0090287	26/655	296/18862	1.49E-05	0.000144	9.50E-05	26
BP	GO:0045342	6/655	17/18862	1.53E-05	0.000148	9.71E-05	6
BP	GO:0050768	16/655	133/18862	1.53E-05	0.000148	9.73E-05	16
BP	GO:0030193	11/655	66/18862	1.54E-05	0.000148	9.73E-05	11
BP	GO:0002218	17/655	148/18862	1.55E-05	0.000149	9.81E-05	17
BP	GO:0018209	28/655	333/18862	1.59E-05	0.000153	0.0001	28

BP	GO:0002092	7/655	25/18862	1.64E-05	0.000156	0.000103	7
BP	GO:0003148	7/655	25/18862	1.64E-05	0.000156	0.000103	7
BP	GO:0097205	7/655	25/18862	1.64E-05	0.000156	0.000103	7
BP	GO:0001822	25/655	280/18862	1.64E-05	0.000156	0.000103	25
BP	GO:0002691	8/655	34/18862	1.65E-05	0.000157	0.000103	8
BP	GO:0051271	29/655	352/18862	1.66E-05	0.000157	0.000103	29
BP	GO:0042310	12/655	79/18862	1.69E-05	0.000159	0.000105	12
BP	GO:0048145	12/655	79/18862	1.69E-05	0.000159	0.000105	12
BP	GO:0031345	19/655	180/18862	1.70E-05	0.000159	0.000105	19
BP	GO:0046631	17/655	149/18862	1.70E-05	0.000159	0.000105	17
BP	GO:1900046	11/655	67/18862	1.78E-05	0.000167	0.00011	11
BP	GO:0032736	5/655	11/18862	1.93E-05	0.00018	0.000118	5
BP	GO:0048144	12/655	80/18862	1.93E-05	0.00018	0.000118	12
BP	GO:2000106	12/655	80/18862	1.93E-05	0.00018	0.000118	12
BP	GO:0090100	14/655	107/18862	1.99E-05	0.000185	0.000122	14
BP	GO:0032731	10/655	56/18862	2.00E-05	0.000185	0.000122	10
BP	GO:0051353	10/655	56/18862	2.00E-05	0.000185	0.000122	10
BP	GO:0031667	34/655	451/18862	2.08E-05	0.000192	0.000126	34
BP	GO:0071772	18/655	167/18862	2.12E-05	0.000195	0.000128	18
BP	GO:0071773	18/655	167/18862	2.12E-05	0.000195	0.000128	18
BP	GO:0022617	12/655	81/18862	2.20E-05	0.000202	0.000133	12
BP	GO:0002708	14/655	108/18862	2.22E-05	0.000203	0.000134	14
BP	GO:0003012	34/655	453/18862	2.28E-05	0.000208	0.000137	34
BP	GO:0043112	18/655	168/18862	2.30E-05	0.00021	0.000138	18
BP	GO:0002040	19/655	184/18862	2.32E-05	0.000211	0.000139	19
BP	GO:0097191	21/655	217/18862	2.35E-05	0.000213	0.00014	21
BP	GO:0043551	10/655	57/18862	2.35E-05	0.000213	0.00014	10
BP	GO:0048146	9/655	46/18862	2.42E-05	0.000219	0.000144	9
BP	GO:2000107	9/655	46/18862	2.42E-05	0.000219	0.000144	9
BP	GO:0045730	8/655	36/18862	2.59E-05	0.000234	0.000154	8
BP	GO:0030509	17/655	154/18862	2.62E-05	0.000236	0.000155	17
BP	GO:0006801	11/655	70/18862	2.73E-05	0.000245	0.000161	11
BP	GO:0055021	11/655	70/18862	2.73E-05	0.000245	0.000161	11
BP	GO:0031663	10/655	58/18862	2.76E-05	0.000247	0.000162	10
BP	GO:0015850	24/655	271/18862	2.76E-05	0.000247	0.000162	24
BP	GO:0009991	35/655	477/18862	2.78E-05	0.000248	0.000163	35
BP	GO:1904705	12/655	83/18862	2.82E-05	0.000251	0.000165	12
BP	GO:1990874	12/655	83/18862	2.82E-05	0.000251	0.000165	12
BP	GO:0033688	7/655	27/18862	2.85E-05	0.000253	0.000166	7
BP	GO:0045672	7/655	27/18862	2.85E-05	0.000253	0.000166	7
BP	GO:0002698	15/655	125/18862	2.90E-05	0.000256	0.000168	15
BP	GO:0097028	9/655	47/18862	2.90E-05	0.000256	0.000168	9
BP	GO:2000146	28/655	345/18862	3.03E-05	0.000266	0.000175	28
BP	GO:0051924	22/655	238/18862	3.08E-05	0.000271	0.000178	22
BP	GO:0050818	11/655	71/18862	3.13E-05	0.000275	0.000181	11
BP	GO:0060562	26/655	309/18862	3.14E-05	0.000275	0.000181	26
BP	GO:0032634	6/655	19/18862	3.16E-05	0.000275	0.000181	6
BP	GO:0032674	6/655	19/18862	3.16E-05	0.000275	0.000181	6
BP	GO:0048245	6/655	19/18862	3.16E-05	0.000275	0.000181	6

BP	GO:1904064	16/655	141/18862	3.20E-05	0.000278	0.000183	16
BP	GO:1904994	8/655	37/18862	3.20E-05	0.000278	0.000183	8
BP	GO:0070493	5/655	12/18862	3.22E-05	0.000278	0.000183	5
BP	GO:0006869	34/655	461/18862	3.26E-05	0.000281	0.000185	34
BP	GO:0030278	14/655	112/18862	3.36E-05	0.00029	0.00019	14
BP	GO:0045778	9/655	48/18862	3.47E-05	0.000297	0.000195	9
BP	GO:0060688	9/655	48/18862	3.47E-05	0.000297	0.000195	9
BP	GO:2000191	9/655	48/18862	3.47E-05	0.000297	0.000195	9
BP	GO:2001238	9/655	48/18862	3.47E-05	0.000297	0.000195	9
BP	GO:0014066	15/655	127/18862	3.50E-05	0.000299	0.000197	15
BP	GO:0007193	12/655	85/18862	3.60E-05	0.000306	0.000202	12
BP	GO:0032370	12/655	85/18862	3.60E-05	0.000306	0.000202	12
BP	GO:0031098	24/655	276/18862	3.71E-05	0.000314	0.000207	24
BP	GO:0030282	14/655	113/18862	3.71E-05	0.000314	0.000207	14
BP	GO:0034764	20/655	207/18862	3.74E-05	0.000314	0.000207	20
BP	GO:0034767	20/655	207/18862	3.74E-05	0.000314	0.000207	20
BP	GO:0007588	10/655	60/18862	3.74E-05	0.000314	0.000207	10
BP	GO:0032722	10/655	60/18862	3.74E-05	0.000314	0.000207	10
BP	GO:0032890	10/655	60/18862	3.74E-05	0.000314	0.000207	10
BP	GO:0045823	8/655	38/18862	3.94E-05	0.00033	0.000217	8
BP	GO:0048738	20/655	208/18862	4.00E-05	0.000335	0.000221	20
BP	GO:0007589	12/655	86/18862	4.05E-05	0.000339	0.000223	12
BP	GO:0002292	11/655	73/18862	4.09E-05	0.000341	0.000224	11
BP	GO:0006809	11/655	73/18862	4.09E-05	0.000341	0.000224	11
BP	GO:0046328	15/655	129/18862	4.21E-05	0.00035	0.00023	15
BP	GO:0051651	20/655	209/18862	4.29E-05	0.000356	0.000234	20
BP	GO:0071379	6/655	20/18862	4.38E-05	0.000363	0.000239	6
BP	GO:0009755	19/655	193/18862	4.50E-05	0.000372	0.000244	19
BP	GO:0043122	22/655	244/18862	4.50E-05	0.000372	0.000244	22
BP	GO:0003206	14/655	115/18862	4.52E-05	0.000373	0.000245	14
BP	GO:1902624	7/655	29/18862	4.72E-05	0.000388	0.000255	7
BP	GO:0045933	8/655	39/18862	4.80E-05	0.000394	0.000259	8
BP	GO:2000516	8/655	39/18862	4.80E-05	0.000394	0.000259	8
BP	GO:1904019	14/655	116/18862	4.98E-05	0.000408	0.000268	14
BP	GO:0045453	10/655	62/18862	5.01E-05	0.000409	0.000269	10
BP	GO:0031650	5/655	13/18862	5.08E-05	0.000412	0.000271	5
BP	GO:0035815	5/655	13/18862	5.08E-05	0.000412	0.000271	5
BP	GO:0060340	5/655	13/18862	5.08E-05	0.000412	0.000271	5
BP	GO:0070664	12/655	88/18862	5.11E-05	0.000415	0.000273	12
BP	GO:0010959	22/655	247/18862	5.41E-05	0.000437	0.000288	22
BP	GO:0030072	22/655	247/18862	5.41E-05	0.000437	0.000288	22
BP	GO:0051098	28/655	357/18862	5.55E-05	0.000448	0.000294	28
BP	GO:0043277	9/655	51/18862	5.73E-05	0.000461	0.000303	9
BP	GO:0043900	9/655	51/18862	5.73E-05	0.000461	0.000303	9
BP	GO:0048662	10/655	63/18862	5.77E-05	0.000463	0.000305	10
BP	GO:0071774	16/655	148/18862	5.79E-05	0.000463	0.000305	16
BP	GO:0045776	8/655	40/18862	5.82E-05	0.000463	0.000305	8
BP	GO:0098760	8/655	40/18862	5.82E-05	0.000463	0.000305	8
BP	GO:0098761	8/655	40/18862	5.82E-05	0.000463	0.000305	8

BP	GO:1903524	8/655	40/18862	5.82E-05	0.000463	0.000305	8
BP	GO:0043903	19/655	197/18862	5.95E-05	0.000473	0.000311	19
BP	GO:0001960	11/655	76/18862	5.99E-05	0.000475	0.000312	11
BP	GO:1903035	12/655	90/18862	6.40E-05	0.000507	0.000333	12
BP	GO:0007568	25/655	304/18862	6.44E-05	0.000509	0.000335	25
BP	GO:0060411	10/655	64/18862	6.63E-05	0.000523	0.000344	10
BP	GO:0002711	9/655	52/18862	6.72E-05	0.000529	0.000348	9
BP	GO:0046209	11/655	77/18862	6.77E-05	0.000532	0.00035	11
BP	GO:0060420	11/655	77/18862	6.77E-05	0.000532	0.00035	11
BP	GO:0035265	17/655	166/18862	6.83E-05	0.000535	0.000352	17
BP	GO:0048863	22/655	251/18862	6.88E-05	0.000538	0.000354	22
BP	GO:1903707	13/655	105/18862	7.04E-05	0.00055	0.000362	13
BP	GO:0043524	15/655	135/18862	7.15E-05	0.000557	0.000367	15
BP	GO:0002790	30/655	401/18862	7.25E-05	0.000564	0.000371	30
BP	GO:0002793	16/655	151/18862	7.38E-05	0.000574	0.000377	16
BP	GO:0001516	7/655	31/18862	7.49E-05	0.000579	0.000381	7
BP	GO:0046457	7/655	31/18862	7.49E-05	0.000579	0.000381	7
BP	GO:2000193	7/655	31/18862	7.49E-05	0.000579	0.000381	7
BP	GO:2001057	11/655	78/18862	7.64E-05	0.00059	0.000388	11
BP	GO:0014821	6/655	22/18862	7.94E-05	0.000612	0.000403	6
BP	GO:0030316	12/655	92/18862	7.96E-05	0.000613	0.000403	12
BP	GO:1903522	24/655	290/18862	8.13E-05	0.000624	0.000411	24
BP	GO:0009612	19/655	202/18862	8.34E-05	0.00064	0.000421	19
BP	GO:0014002	8/655	42/18862	8.41E-05	0.000644	0.000423	8
BP	GO:0046632	13/655	107/18862	8.57E-05	0.000655	0.000431	13
BP	GO:0002294	10/655	66/18862	8.68E-05	0.000662	0.000435	10
BP	GO:0046635	10/655	66/18862	8.68E-05	0.000662	0.000435	10
BP	GO:0045071	9/655	54/18862	9.13E-05	0.000693	0.000456	9
BP	GO:0061756	9/655	54/18862	9.13E-05	0.000693	0.000456	9
BP	GO:0052548	31/655	426/18862	9.20E-05	0.000698	0.000459	31
BP	GO:0001501	34/655	486/18862	9.26E-05	0.000701	0.000461	34
BP	GO:0016486	7/655	32/18862	9.30E-05	0.000701	0.000461	7
BP	GO:0032673	7/655	32/18862	9.30E-05	0.000701	0.000461	7
BP	GO:0033687	7/655	32/18862	9.30E-05	0.000701	0.000461	7
BP	GO:0014065	16/655	154/18862	9.34E-05	0.000701	0.000461	16
BP	GO:2001236	16/655	154/18862	9.34E-05	0.000701	0.000461	16
BP	GO:1903409	14/655	123/18862	9.51E-05	0.000713	0.000469	14
BP	GO:0002287	10/655	67/18862	9.89E-05	0.000736	0.000484	10
BP	GO:0002293	10/655	67/18862	9.89E-05	0.000736	0.000484	10
BP	GO:0002637	10/655	67/18862	9.89E-05	0.000736	0.000484	10
BP	GO:0046637	10/655	67/18862	9.89E-05	0.000736	0.000484	10
BP	GO:1901224	10/655	67/18862	9.89E-05	0.000736	0.000484	10
BP	GO:1903531	15/655	139/18862	9.99E-05	0.00074	0.000487	15
BP	GO:0032309	8/655	43/18862	0.0001	0.00074	0.000487	8
BP	GO:0061383	8/655	43/18862	0.0001	0.00074	0.000487	8
BP	GO:2000273	8/655	43/18862	0.0001	0.00074	0.000487	8
BP	GO:0006816	30/655	409/18862	0.000103	0.000762	0.000501	30
BP	GO:0032963	13/655	109/18862	0.000104	0.000765	0.000503	13
BP	GO:0002021	6/655	23/18862	0.000104	0.000766	0.000504	6

BP	GO:0032693	6/655	23/18862	0.000104	0.000766	0.000504	6
BP	GO:0030100	19/655	206/18862	0.000108	0.000792	0.000521	19
BP	GO:0043367	11/655	81/18862	0.000108	0.000792	0.000521	11
BP	GO:0060761	11/655	81/18862	0.000108	0.000792	0.000521	11
BP	GO:0090277	12/655	95/18862	0.000109	0.000796	0.000524	12
BP	GO:0002827	5/655	15/18862	0.000112	0.000814	0.000536	5
BP	GO:0000302	20/655	224/18862	0.000113	0.000821	0.00054	20
BP	GO:0032355	14/655	125/18862	0.000113	0.000823	0.000541	14
BP	GO:0032633	7/655	33/18862	0.000115	0.000826	0.000543	7
BP	GO:0032814	7/655	33/18862	0.000115	0.000826	0.000543	7
BP	GO:0043552	7/655	33/18862	0.000115	0.000826	0.000543	7
BP	GO:0051482	7/655	33/18862	0.000115	0.000826	0.000543	7
BP	GO:0140448	7/655	33/18862	0.000115	0.000826	0.000543	7
BP	GO:0030168	16/655	157/18862	0.000117	0.000845	0.000556	16
BP	GO:0002639	8/655	44/18862	0.000119	0.000852	0.00056	8
BP	GO:0045124	8/655	44/18862	0.000119	0.000852	0.00056	8
BP	GO:0051403	22/655	261/18862	0.000122	0.000874	0.000575	22
BP	GO:0045471	14/655	126/18862	0.000123	0.000883	0.000581	14
BP	GO:0046660	13/655	111/18862	0.000125	0.000894	0.000588	13
BP	GO:0044344	15/655	142/18862	0.000127	0.000907	0.000597	15
BP	GO:0043550	10/655	69/18862	0.000127	0.000907	0.000597	10
BP	GO:0034599	24/655	299/18862	0.00013	0.000926	0.000609	24
BP	GO:0031099	18/655	192/18862	0.000133	0.00094	0.000618	18
BP	GO:0048015	18/655	192/18862	0.000133	0.00094	0.000618	18
BP	GO:0098581	6/655	24/18862	0.000135	0.000956	0.000629	6
BP	GO:0002576	14/655	128/18862	0.000146	0.00103	0.000677	14
BP	GO:0032479	14/655	128/18862	0.000146	0.00103	0.000677	14
BP	GO:0045667	14/655	128/18862	0.000146	0.00103	0.000677	14
BP	GO:0031214	16/655	160/18862	0.000147	0.001031	0.000678	16
BP	GO:0031341	12/655	98/18862	0.000148	0.001036	0.000682	12
BP	GO:0042063	23/655	283/18862	0.000149	0.001043	0.000686	23
BP	GO:0030101	11/655	84/18862	0.000151	0.001059	0.000696	11
BP	GO:0045346	5/655	16/18862	0.000158	0.001104	0.000726	5
BP	GO:0032606	14/655	129/18862	0.000159	0.001109	0.000729	14
BP	GO:0002763	9/655	58/18862	0.000162	0.001126	0.000741	9
BP	GO:0019233	12/655	99/18862	0.000163	0.001132	0.000745	12
BP	GO:0007409	32/655	460/18862	0.000164	0.001138	0.000748	32
BP	GO:0110148	16/655	162/18862	0.000169	0.001176	0.000773	16
BP	GO:0048872	21/655	249/18862	0.000171	0.001188	0.000781	21
BP	GO:0043393	18/655	196/18862	0.000172	0.001188	0.000782	18
BP	GO:0048017	18/655	196/18862	0.000172	0.001188	0.000782	18
BP	GO:0048143	6/655	25/18862	0.000172	0.001188	0.000782	6
BP	GO:0060259	6/655	25/18862	0.000172	0.001188	0.000782	6
BP	GO:0006939	12/655	100/18862	0.000179	0.001232	0.00081	12
BP	GO:0035924	10/655	72/18862	0.000183	0.001256	0.000826	10
BP	GO:0048708	10/655	72/18862	0.000183	0.001256	0.000826	10
BP	GO:0045428	9/655	59/18862	0.000185	0.001266	0.000833	9
BP	GO:0051781	11/655	86/18862	0.000187	0.001277	0.00084	11
BP	GO:0072073	14/655	131/18862	0.000187	0.001277	0.00084	14

BP	GO:0002823	8/655	47/18862	0.000192	0.001307	0.00086	8
BP	GO:0009409	8/655	47/18862	0.000192	0.001307	0.00086	8
BP	GO:1904707	8/655	47/18862	0.000192	0.001307	0.00086	8
BP	GO:0006979	31/655	444/18862	0.000193	0.001312	0.000863	31
BP	GO:0046425	12/655	101/18862	0.000197	0.001334	0.000877	12
BP	GO:1902106	12/655	101/18862	0.000197	0.001334	0.000877	12
BP	GO:0048608	29/655	405/18862	0.000202	0.001365	0.000898	29
BP	GO:0003015	23/655	289/18862	0.000202	0.001366	0.000899	23
BP	GO:0030879	14/655	132/18862	0.000203	0.001366	0.000899	14
BP	GO:0042311	7/655	36/18862	0.000204	0.001376	0.000905	7
BP	GO:0062197	26/655	347/18862	0.00021	0.001414	0.00093	26
BP	GO:0045576	9/655	60/18862	0.000211	0.001415	0.000931	9
BP	GO:0045927	21/655	253/18862	0.000213	0.00143	0.000941	21
BP	GO:0034393	5/655	17/18862	0.000217	0.00145	0.000954	5
BP	GO:0048670	5/655	17/18862	0.000217	0.00145	0.000954	5
BP	GO:0090190	5/655	17/18862	0.000217	0.00145	0.000954	5
BP	GO:1901623	6/655	26/18862	0.000218	0.001451	0.000954	6
BP	GO:2001233	26/655	348/18862	0.00022	0.001464	0.000963	26
BP	GO:0001913	8/655	48/18862	0.000224	0.00148	0.000974	8
BP	GO:0030195	8/655	48/18862	0.000224	0.00148	0.000974	8
BP	GO:0038084	8/655	48/18862	0.000224	0.00148	0.000974	8
BP	GO:1904894	8/655	48/18862	0.000224	0.00148	0.000974	8
BP	GO:0071695	19/655	218/18862	0.000227	0.001497	0.000985	19
BP	GO:0061458	29/655	408/18862	0.000229	0.001509	0.000992	29
BP	GO:0061045	10/655	74/18862	0.00023	0.001518	0.000999	10
BP	GO:0048545	25/655	330/18862	0.000234	0.001537	0.001011	25
BP	GO:0015908	15/655	150/18862	0.000234	0.001537	0.001011	15
BP	GO:0032526	12/655	103/18862	0.000237	0.001557	0.001024	12
BP	GO:0080164	9/655	61/18862	0.00024	0.001571	0.001033	9
BP	GO:0090218	7/655	37/18862	0.000245	0.001599	0.001051	7
BP	GO:2000403	7/655	37/18862	0.000245	0.001599	0.001051	7
BP	GO:0051208	13/655	119/18862	0.000253	0.001649	0.001085	13
BP	GO:0001660	4/655	10/18862	0.000256	0.001658	0.001091	4
BP	GO:0002024	4/655	10/18862	0.000256	0.001658	0.001091	4
BP	GO:0003093	4/655	10/18862	0.000256	0.001658	0.001091	4
BP	GO:0032754	4/655	10/18862	0.000256	0.001658	0.001091	4
BP	GO:0040015	4/655	10/18862	0.000256	0.001658	0.001091	4
BP	GO:0046638	8/655	49/18862	0.000259	0.001673	0.001101	8
BP	GO:0060043	8/655	49/18862	0.000259	0.001673	0.001101	8
BP	GO:1900047	8/655	49/18862	0.000259	0.001673	0.001101	8
BP	GO:0031960	15/655	152/18862	0.00027	0.001742	0.001146	15
BP	GO:0002675	6/655	27/18862	0.000272	0.001748	0.00115	6
BP	GO:0048732	29/655	413/18862	0.00028	0.0018	0.001184	29
BP	GO:0044706	18/655	204/18862	0.000282	0.001812	0.001192	18
BP	GO:0001914	7/655	38/18862	0.000291	0.001858	0.001222	7
BP	GO:0009595	7/655	38/18862	0.000291	0.001858	0.001222	7
BP	GO:0001991	5/655	18/18862	0.000292	0.001858	0.001222	5
BP	GO:0002281	5/655	18/18862	0.000292	0.001858	0.001222	5
BP	GO:0006957	5/655	18/18862	0.000292	0.001858	0.001222	5

BP	GO:0032740	5/655	18/18862	0.000292	0.001858	0.001222	5
BP	GO:2000831	5/655	18/18862	0.000292	0.001858	0.001222	5
BP	GO:0030183	14/655	137/18862	0.000299	0.001896	0.001247	14
BP	GO:0048260	8/655	50/18862	0.0003	0.001896	0.001247	8
BP	GO:1904036	8/655	50/18862	0.0003	0.001896	0.001247	8
BP	GO:0031343	9/655	63/18862	0.000308	0.001945	0.001279	9
BP	GO:0060047	22/655	279/18862	0.000314	0.001982	0.001304	22
BP	GO:0032481	10/655	77/18862	0.000321	0.002018	0.001327	10
BP	GO:0034121	10/655	77/18862	0.000321	0.002018	0.001327	10
BP	GO:0007254	17/655	189/18862	0.00033	0.002075	0.001364	17
BP	GO:1901655	11/655	92/18862	0.000341	0.002139	0.001406	11
BP	GO:0007190	7/655	39/18862	0.000344	0.002146	0.001411	7
BP	GO:0030501	7/655	39/18862	0.000344	0.002146	0.001411	7
BP	GO:0050832	7/655	39/18862	0.000344	0.002146	0.001411	7
BP	GO:0043370	8/655	51/18862	0.000345	0.002146	0.001411	8
BP	GO:0071715	8/655	51/18862	0.000345	0.002146	0.001411	8
BP	GO:1904645	8/655	51/18862	0.000345	0.002146	0.001411	8
BP	GO:0042093	9/655	64/18862	0.000347	0.002157	0.001419	9
BP	GO:0072577	9/655	64/18862	0.000347	0.002157	0.001419	9
BP	GO:0008016	20/655	245/18862	0.000372	0.002305	0.001516	20
BP	GO:0008585	11/655	93/18862	0.000375	0.002317	0.001524	11
BP	GO:0051591	11/655	93/18862	0.000375	0.002317	0.001524	11
BP	GO:0002689	5/655	19/18862	0.000386	0.002376	0.001562	5
BP	GO:0010744	5/655	19/18862	0.000386	0.002376	0.001562	5
BP	GO:0098543	5/655	19/18862	0.000386	0.002376	0.001562	5
BP	GO:0050795	9/655	65/18862	0.000391	0.002395	0.001575	9
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BP	GO:0033212	4/655	11/18862	0.000391	0.002395	0.001575	4
BP	GO:0033690	4/655	11/18862	0.000391	0.002395	0.001575	4
BP	GO:0034975	4/655	11/18862	0.000391	0.002395	0.001575	4
BP	GO:0002820	8/655	52/18862	0.000395	0.002412	0.001586	8
BP	GO:0050819	8/655	52/18862	0.000395	0.002412	0.001586	8
BP	GO:0030890	7/655	40/18862	0.000405	0.002466	0.001622	7
BP	GO:0051281	7/655	40/18862	0.000405	0.002466	0.001622	7
BP	GO:0061036	6/655	29/18862	0.000411	0.002497	0.001642	6
BP	GO:1904035	11/655	94/18862	0.000411	0.002497	0.001642	11
BP	GO:0061035	9/655	66/18862	0.000439	0.002659	0.001749	9
BP	GO:0072678	9/655	66/18862	0.000439	0.002659	0.001749	9
BP	GO:2001235	13/655	126/18862	0.000443	0.002681	0.001763	13
BP	GO:2000116	19/655	230/18862	0.000445	0.002691	0.00177	19
BP	GO:0003179	8/655	53/18862	0.000451	0.00272	0.001789	8
BP	GO:0010524	8/655	53/18862	0.000451	0.00272	0.001789	8
BP	GO:0007565	16/655	177/18862	0.000463	0.002785	0.001832	16
BP	GO:0022612	12/655	111/18862	0.000476	0.002861	0.001882	12
BP	GO:0050672	10/655	81/18862	0.000485	0.002911	0.001915	10
BP	GO:0014074	14/655	144/18862	0.000498	0.00296	0.001947	14
BP	GO:0045577	6/655	30/18862	0.000499	0.00296	0.001947	6
BP	GO:0061384	6/655	30/18862	0.000499	0.00296	0.001947	6
BP	GO:0110110	6/655	30/18862	0.000499	0.00296	0.001947	6

BP	GO:0007252	5/655	20/18862	0.0005	0.00296	0.001947	5
BP	GO:0032816	5/655	20/18862	0.0005	0.00296	0.001947	5
BP	GO:0070233	5/655	20/18862	0.0005	0.00296	0.001947	5
BP	GO:0090026	5/655	20/18862	0.0005	0.00296	0.001947	5
BP	GO:0090189	5/655	20/18862	0.0005	0.00296	0.001947	5
BP	GO:0090280	5/655	20/18862	0.0005	0.00296	0.001947	5
BP	GO:0002791	23/655	308/18862	0.000501	0.002967	0.001951	23
BP	GO:0010975	29/655	428/18862	0.000502	0.002967	0.001951	29
BP	GO:0002043	8/655	54/18862	0.000514	0.003031	0.001993	8
BP	GO:0055078	8/655	54/18862	0.000514	0.003031	0.001993	8
BP	GO:0051209	12/655	112/18862	0.000517	0.003043	0.002001	12
BP	GO:0032945	10/655	82/18862	0.000536	0.00315	0.002071	10
BP	GO:0046545	11/655	97/18862	0.000539	0.003164	0.002081	11
BP	GO:0060191	11/655	97/18862	0.000539	0.003164	0.002081	11
BP	GO:0032965	7/655	42/18862	0.000552	0.003229	0.002124	7
BP	GO:0043114	7/655	42/18862	0.000552	0.003229	0.002124	7
BP	GO:0001909	12/655	113/18862	0.00056	0.003266	0.002148	12
BP	GO:0008543	12/655	113/18862	0.00056	0.003266	0.002148	12
BP	GO:0051283	12/655	113/18862	0.00056	0.003266	0.002148	12
BP	GO:0010455	4/655	12/18862	0.000571	0.003311	0.002178	4
BP	GO:0044650	4/655	12/18862	0.000571	0.003311	0.002178	4
BP	GO:0044849	4/655	12/18862	0.000571	0.003311	0.002178	4
BP	GO:0061469	4/655	12/18862	0.000571	0.003311	0.002178	4
BP	GO:0014706	25/655	351/18862	0.000587	0.003398	0.002235	25
BP	GO:0045069	10/655	83/18862	0.00059	0.003416	0.002247	10
BP	GO:0019835	6/655	31/18862	0.000601	0.003463	0.002278	6
BP	GO:0034390	6/655	31/18862	0.000601	0.003463	0.002278	6
BP	GO:0034391	6/655	31/18862	0.000601	0.003463	0.002278	6
BP	GO:0006936	25/655	352/18862	0.000611	0.00352	0.002315	25
BP	GO:0010952	17/655	200/18862	0.000634	0.003636	0.002392	17
BP	GO:0001759	5/655	21/18862	0.000637	0.003636	0.002392	5
BP	GO:0035809	5/655	21/18862	0.000637	0.003636	0.002392	5
BP	GO:0035929	5/655	21/18862	0.000637	0.003636	0.002392	5
BP	GO:0046641	5/655	21/18862	0.000637	0.003636	0.002392	5
BP	GO:1903429	5/655	21/18862	0.000637	0.003636	0.002392	5
BP	GO:1905209	5/655	21/18862	0.000637	0.003636	0.002392	5
BP	GO:1903426	11/655	99/18862	0.000642	0.003661	0.002408	11
BP	GO:0051346	30/655	456/18862	0.000656	0.00373	0.002453	30
BP	GO:1903900	14/655	148/18862	0.000656	0.00373	0.002453	14
BP	GO:0051282	12/655	115/18862	0.000657	0.00373	0.002453	12
BP	GO:0043388	8/655	56/18862	0.00066	0.003747	0.002464	8
BP	GO:0006879	9/655	70/18862	0.000682	0.00386	0.002539	9
BP	GO:0010517	9/655	70/18862	0.000682	0.00386	0.002539	9
BP	GO:0002832	11/655	100/18862	0.000699	0.003954	0.0026	11
BP	GO:0002861	6/655	32/18862	0.000718	0.004039	0.002656	6
BP	GO:0010661	6/655	32/18862	0.000718	0.004039	0.002656	6
BP	GO:0043372	6/655	32/18862	0.000718	0.004039	0.002656	6
BP	GO:0051385	6/655	32/18862	0.000718	0.004039	0.002656	6
BP	GO:0045444	18/655	221/18862	0.000736	0.004134	0.002719	18

BP	GO:0150076	7/655	44/18862	0.000738	0.004143	0.002725	7
BP	GO:0031295	8/655	57/18862	0.000745	0.004172	0.002744	8
BP	GO:0032757	8/655	57/18862	0.000745	0.004172	0.002744	8
BP	GO:0051216	16/655	185/18862	0.000751	0.004198	0.002761	16
BP	GO:0070227	9/655	71/18862	0.000757	0.004231	0.002782	9
BP	GO:0097553	13/655	134/18862	0.000798	0.004395	0.00289	13
BP	GO:0003205	14/655	151/18862	0.000801	0.004395	0.00289	14
BP	GO:2001056	14/655	151/18862	0.000801	0.004395	0.00289	14
BP	GO:0032727	5/655	22/18862	0.000801	0.004395	0.00289	5
BP	GO:0055093	5/655	22/18862	0.000801	0.004395	0.00289	5
BP	GO:0060343	5/655	22/18862	0.000801	0.004395	0.00289	5
BP	GO:1904996	5/655	22/18862	0.000801	0.004395	0.00289	5
BP	GO:0010745	4/655	13/18862	0.000802	0.004395	0.00289	4
BP	GO:0016264	4/655	13/18862	0.000802	0.004395	0.00289	4
BP	GO:0032725	4/655	13/18862	0.000802	0.004395	0.00289	4
BP	GO:0033605	4/655	13/18862	0.000802	0.004395	0.00289	4
BP	GO:0035810	4/655	13/18862	0.000802	0.004395	0.00289	4
BP	GO:0060100	4/655	13/18862	0.000802	0.004395	0.00289	4
BP	GO:0060732	4/655	13/18862	0.000802	0.004395	0.00289	4
BP	GO:1903236	4/655	13/18862	0.000802	0.004395	0.00289	4
BP	GO:1905155	4/655	13/18862	0.000802	0.004395	0.00289	4
BP	GO:0031589	25/655	359/18862	0.000811	0.004441	0.002921	25
BP	GO:0046620	11/655	102/18862	0.000827	0.00452	0.002972	11
BP	GO:0060038	8/655	58/18862	0.000839	0.004574	0.003008	8
BP	GO:2000351	8/655	58/18862	0.000839	0.004574	0.003008	8
BP	GO:0014855	9/655	72/18862	0.000839	0.004574	0.003008	9
BP	GO:0001974	7/655	45/18862	0.000848	0.004608	0.003031	7
BP	GO:0014911	7/655	45/18862	0.000848	0.004608	0.003031	7
BP	GO:1904062	24/655	340/18862	0.000849	0.004608	0.003031	24
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BP	GO:0050869	6/655	33/18862	0.000852	0.004609	0.003031	6
BP	GO:0051954	6/655	33/18862	0.000852	0.004609	0.003031	6
BP	GO:0060402	14/655	152/18862	0.000854	0.004618	0.003037	14
BP	GO:0061448	19/655	243/18862	0.00087	0.004692	0.003086	19
BP	GO:0090257	19/655	243/18862	0.00087	0.004692	0.003086	19
BP	GO:0051099	15/655	170/18862	0.000884	0.004763	0.003133	15
BP	GO:0002758	12/655	119/18862	0.000891	0.004794	0.003153	12
BP	GO:0030001	31/655	486/18862	0.000892	0.004794	0.003153	31
BP	GO:0002062	11/655	103/18862	0.000897	0.004815	0.003166	11
BP	GO:0006940	8/655	59/18862	0.000941	0.005039	0.003314	8
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BP	GO:0046777	18/655	226/18862	0.000953	0.005098	0.003353	18
BP	GO:0003158	13/655	137/18862	0.000981	0.005241	0.003447	13
BP	GO:0003181	5/655	23/18862	0.000995	0.005295	0.003482	5
BP	GO:0048668	5/655	23/18862	0.000995	0.005295	0.003482	5
BP	GO:1902932	5/655	23/18862	0.000995	0.005295	0.003482	5
BP	GO:0010092	6/655	34/18862	0.001004	0.005318	0.003497	6
BP	GO:0010543	6/655	34/18862	0.001004	0.005318	0.003497	6
BP	GO:0046640	6/655	34/18862	0.001004	0.005318	0.003497	6

BP	GO:0070232	6/655	34/18862	0.001004	0.005318	0.003497	6
BP	GO:2000352	6/655	34/18862	0.001004	0.005318	0.003497	6
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BP	GO:0062207	11/655	105/18862	0.001053	0.005561	0.003658	11
BP	GO:0060401	15/655	173/18862	0.001057	0.005579	0.003669	15
BP	GO:0034349	4/655	14/18862	0.001092	0.005736	0.003773	4
BP	GO:0038166	4/655	14/18862	0.001092	0.005736	0.003773	4
BP	GO:0072540	4/655	14/18862	0.001092	0.005736	0.003773	4
BP	GO:0010001	17/655	210/18862	0.001092	0.005736	0.003773	17
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BP	GO:0045862	25/655	367/18862	0.001108	0.005785	0.003804	25
BP	GO:0007218	11/655	106/18862	0.001139	0.005941	0.003907	11
BP	GO:0021700	20/655	268/18862	0.001145	0.005969	0.003926	20
BP	GO:0051402	18/655	230/18862	0.001165	0.006062	0.003987	18
BP	GO:0032970	26/655	389/18862	0.001169	0.006079	0.003998	26
BP	GO:0003170	8/655	61/18862	0.001176	0.006094	0.004008	8
BP	GO:0048645	8/655	61/18862	0.001176	0.006094	0.004008	8
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BP	GO:1905207	6/655	35/18862	0.001177	0.006094	0.004008	6
BP	GO:0060348	16/655	193/18862	0.001179	0.006096	0.004009	16
BP	GO:0060333	10/655	91/18862	0.001218	0.006284	0.004133	10
BP	GO:0002407	5/655	24/18862	0.001221	0.006284	0.004133	5
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BP	GO:1903901	5/655	24/18862	0.001221	0.006284	0.004133	5
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BP	GO:0030500	9/655	76/18862	0.001243	0.006378	0.004195	9
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BP	GO:0006693	7/655	48/18862	0.001258	0.006428	0.004228	7
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BP	GO:0034614	14/655	159/18862	0.001323	0.006744	0.004435	14
BP	GO:0010038	24/655	352/18862	0.001363	0.006933	0.00456	24
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BP	GO:0070231	7/655	49/18862	0.001425	0.007215	0.004745	7
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BP	GO:0010919	4/655	15/18862	0.001448	0.007272	0.004782	4
BP	GO:0032645	4/655	15/18862	0.001448	0.007272	0.004782	4
BP	GO:0035635	4/655	15/18862	0.001448	0.007272	0.004782	4
BP	GO:0042976	4/655	15/18862	0.001448	0.007272	0.004782	4
BP	GO:0060099	4/655	15/18862	0.001448	0.007272	0.004782	4
BP	GO:0071380	4/655	15/18862	0.001448	0.007272	0.004782	4

BP	GO:2000846	4/655	15/18862	0.001448	0.007272	0.004782	4
BP	GO:0014015	8/655	63/18862	0.001456	0.007294	0.004797	8
BP	GO:2000401	8/655	63/18862	0.001456	0.007294	0.004797	8
BP	GO:0043523	16/655	197/18862	0.001461	0.007311	0.004808	16
BP	GO:0003171	5/655	25/18862	0.001483	0.007387	0.004859	5
BP	GO:0021884	5/655	25/18862	0.001483	0.007387	0.004859	5
BP	GO:0032682	5/655	25/18862	0.001483	0.007387	0.004859	5
BP	GO:1990776	5/655	25/18862	0.001483	0.007387	0.004859	5
BP	GO:0071241	17/655	216/18862	0.001484	0.007387	0.004859	17
BP	GO:0006937	14/655	161/18862	0.001491	0.007406	0.00487	14
BP	GO:0030307	14/655	161/18862	0.001491	0.007406	0.00487	14
BP	GO:0030522	20/655	274/18862	0.001496	0.00741	0.004874	20
BP	GO:0001570	9/655	78/18862	0.001497	0.00741	0.004874	9
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BP	GO:0051341	11/655	110/18862	0.001542	0.007628	0.005017	11
BP	GO:0035051	13/655	144/18862	0.00155	0.007657	0.005036	13
BP	GO:0015837	10/655	94/18862	0.001562	0.0077	0.005064	10
BP	GO:0070167	10/655	94/18862	0.001562	0.0077	0.005064	10
BP	GO:0046633	6/655	37/18862	0.00159	0.007813	0.005139	6
BP	GO:0051931	6/655	37/18862	0.00159	0.007813	0.005139	6
BP	GO:0060412	6/655	37/18862	0.00159	0.007813	0.005139	6
BP	GO:0003281	8/655	64/18862	0.001614	0.007925	0.005212	8
BP	GO:0001910	9/655	79/18862	0.001638	0.008028	0.00528	9
BP	GO:0042445	17/655	218/18862	0.001639	0.008028	0.00528	17
BP	GO:0030900	24/655	357/18862	0.001646	0.008057	0.005299	24
BP	GO:0002262	13/655	145/18862	0.00165	0.008066	0.005305	13
BP	GO:0030324	14/655	163/18862	0.001676	0.008183	0.005382	14
BP	GO:0010466	19/655	257/18862	0.001677	0.008183	0.005382	19
BP	GO:0010522	10/655	95/18862	0.001693	0.008249	0.005425	10
BP	GO:0010950	15/655	182/18862	0.001756	0.008551	0.005624	15
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BP	GO:0003156	5/655	26/18862	0.001784	0.008658	0.005694	5
BP	GO:0061082	5/655	26/18862	0.001784	0.008658	0.005694	5
BP	GO:0010660	9/655	80/18862	0.00179	0.00868	0.005709	9
BP	GO:0019079	12/655	129/18862	0.001797	0.008705	0.005725	12
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BP	GO:0032964	7/655	51/18862	0.001809	0.008743	0.00575	7
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BP	GO:0002714	6/655	38/18862	0.001833	0.008806	0.005791	6
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BP	GO:2000249	6/655	38/18862	0.001833	0.008806	0.005791	6
BP	GO:0060249	29/655	466/18862	0.001867	0.008941	0.00588	29
BP	GO:0032604	4/655	16/18862	0.001879	0.008941	0.00588	4
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BP	GO:0061081	4/655	16/18862	0.001879	0.008941	0.00588	4

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BP	GO:1905153	4/655	16/18862	0.001879	0.008941	0.00588	4
BP	GO:0009743	17/655	221/18862	0.001896	0.009014	0.005928	17
BP	GO:0046683	12/655	130/18862	0.001919	0.009115	0.005995	12
BP	GO:0014910	9/655	81/18862	0.001953	0.009269	0.006096	9
BP	GO:0001933	24/655	362/18862	0.001978	0.009366	0.00616	24
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BP	GO:0001658	7/655	52/18862	0.002029	0.009588	0.006305	7
BP	GO:0050433	7/655	52/18862	0.002029	0.009588	0.006305	7
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BP	GO:0007548	19/655	262/18862	0.002089	0.009852	0.006479	19
BP	GO:0045622	6/655	39/18862	0.002104	0.009864	0.006488	6
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BP	GO:1904407	6/655	39/18862	0.002104	0.009864	0.006488	6
BP	GO:2000279	6/655	39/18862	0.002104	0.009864	0.006488	6
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BP	GO:0007263	5/655	27/18862	0.002128	0.009933	0.006533	5
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BP	GO:0045669	8/655	67/18862	0.002172	0.010132	0.006664	8
BP	GO:0043281	16/655	205/18862	0.002197	0.010237	0.006732	16
BP	GO:0002090	7/655	53/18862	0.002269	0.01054	0.006932	7
BP	GO:0002704	7/655	53/18862	0.002269	0.01054	0.006932	7
BP	GO:0050432	7/655	53/18862	0.002269	0.01054	0.006932	7
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BP	GO:0001946	4/655	17/18862	0.00239	0.010959	0.007208	4
BP	GO:0002076	4/655	17/18862	0.00239	0.010959	0.007208	4
BP	GO:0002295	4/655	17/18862	0.00239	0.010959	0.007208	4
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BP	GO:0034374	4/655	17/18862	0.00239	0.010959	0.007208	4
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BP	GO:0010657	9/655	84/18862	0.002515	0.011454	0.007533	9
BP	GO:0010039	5/655	28/18862	0.002517	0.011454	0.007533	5
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BP	GO:0032607	5/655	28/18862	0.002517	0.011454	0.007533	5
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BP	GO:0070228	7/655	54/18862	0.00253	0.01148	0.00755	7
BP	GO:0022408	15/655	189/18862	0.002536	0.011484	0.007553	15
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BP	GO:0009266	17/655	228/18862	0.00263	0.011898	0.007825	17
BP	GO:0043280	12/655	135/18862	0.002635	0.011907	0.007831	12
BP	GO:0090276	16/655	209/18862	0.002668	0.012045	0.007922	16
BP	GO:0002220	11/655	118/18862	0.002701	0.01217	0.008004	11
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BP	GO:0019915	9/655	85/18862	0.002729	0.012253	0.008058	9
BP	GO:0033003	6/655	41/18862	0.002735	0.012253	0.008058	6
BP	GO:0090279	6/655	41/18862	0.002735	0.012253	0.008058	6
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BP	GO:1904646	6/655	41/18862	0.002735	0.012253	0.008058	6
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BP	GO:0045063	4/655	18/18862	0.002989	0.013201	0.008682	4
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BP	GO:0071453	17/655	231/18862	0.00301	0.013283	0.008736	17
BP	GO:0071560	18/655	251/18862	0.003045	0.013425	0.008829	18
BP	GO:0031532	10/655	103/18862	0.003089	0.013603	0.008946	10
BP	GO:0003197	6/655	42/18862	0.003099	0.013621	0.008958	6
BP	GO:0062208	6/655	42/18862	0.003099	0.013621	0.008958	6
BP	GO:0010883	7/655	56/18862	0.003122	0.013698	0.009009	7
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BP	GO:0043627	8/655	71/18862	0.003141	0.013766	0.009054	8
BP	GO:0007586	12/655	138/18862	0.003159	0.013835	0.009099	12
BP	GO:0043534	14/655	175/18862	0.003234	0.014149	0.009305	14
BP	GO:0038111	5/655	30/18862	0.003447	0.015006	0.009869	5
BP	GO:0042755	5/655	30/18862	0.003447	0.015006	0.009869	5
BP	GO:0050901	5/655	30/18862	0.003447	0.015006	0.009869	5
BP	GO:0090183	5/655	30/18862	0.003447	0.015006	0.009869	5
BP	GO:2000406	5/655	30/18862	0.003447	0.015006	0.009869	5
BP	GO:0002532	9/655	88/18862	0.003455	0.015006	0.009869	9
BP	GO:0014909	9/655	88/18862	0.003455	0.015006	0.009869	9
BP	GO:0060993	9/655	88/18862	0.003455	0.015006	0.009869	9
BP	GO:0034142	6/655	43/18862	0.003497	0.015173	0.009979	6

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BP	GO:0010002	4/655	19/18862	0.003683	0.015891	0.010451	4
BP	GO:0033005	4/655	19/18862	0.003683	0.015891	0.010451	4
BP	GO:0043902	4/655	19/18862	0.003683	0.015891	0.010451	4
BP	GO:0044320	4/655	19/18862	0.003683	0.015891	0.010451	4
BP	GO:0045780	4/655	19/18862	0.003683	0.015891	0.010451	4
BP	GO:0051147	13/655	159/18862	0.003707	0.01598	0.01051	13
BP	GO:0042493	23/655	359/18862	0.003715	0.015998	0.010521	23
BP	GO:0007173	11/655	123/18862	0.003726	0.016029	0.010542	11
BP	GO:0042058	9/655	89/18862	0.003729	0.016029	0.010542	9
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BP	GO:1903556	8/655	73/18862	0.003736	0.016029	0.010542	8
BP	GO:1901222	10/655	106/18862	0.003803	0.016303	0.010722	10
BP	GO:0060675	7/655	58/18862	0.003814	0.016334	0.010742	7
BP	GO:0071559	18/655	257/18862	0.003907	0.016718	0.010995	18
BP	GO:0060421	6/655	44/18862	0.003933	0.016798	0.011047	6
BP	GO:0060976	6/655	44/18862	0.003933	0.016798	0.011047	6
BP	GO:0070229	5/655	31/18862	0.003995	0.017046	0.011211	5
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BP	GO:0043084	3/655	10/18862	0.004167	0.017539	0.011535	3
BP	GO:0045625	3/655	10/18862	0.004167	0.017539	0.011535	3
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BP	GO:0003007	17/655	239/18862	0.004253	0.017869	0.011752	17
BP	GO:0099177	25/655	406/18862	0.004263	0.017898	0.011771	25
BP	GO:0030510	9/655	91/18862	0.004326	0.018146	0.011934	9
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BP	GO:0051495	16/655	220/18862	0.00441	0.018464	0.012143	16
BP	GO:0043536	8/655	75/18862	0.004415	0.018466	0.012145	8
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BP	GO:0034104	4/655	20/18862	0.004479	0.018553	0.012202	4
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BP	GO:0043373	4/655	20/18862	0.004479	0.018553	0.012202	4
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BP	GO:0071496	20/655	303/18862	0.004739	0.019458	0.012797	20
BP	GO:0032409	19/655	283/18862	0.004865	0.019958	0.013126	19
BP	GO:0101023	6/655	46/18862	0.004923	0.020159	0.013258	6
BP	GO:1905562	6/655	46/18862	0.004923	0.020159	0.013258	6
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BP	GO:0003298	5/655	33/18862	0.005271	0.021378	0.01406	5
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BP	GO:0050792	14/655	186/18862	0.005552	0.022158	0.014573	14
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BP	GO:0022898	18/655	268/18862	0.006008	0.023746	0.015617	18
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BP	GO:0060541	14/655	188/18862	0.00609	0.02397	0.015764	14
BP	GO:1901184	9/655	96/18862	0.006148	0.024178	0.015901	9
BP	GO:0002223	10/655	114/18862	0.006358	0.024962	0.016417	10
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BP	GO:0032330	6/655	49/18862	0.006735	0.026198	0.01723	6
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BP	GO:0045824	7/655	65/18862	0.007175	0.027796	0.01828	7
BP	GO:0044409	12/655	153/18862	0.007184	0.027796	0.01828	12
BP	GO:0110053	18/655	273/18862	0.007228	0.027796	0.01828	18
BP	GO:0002002	3/655	12/18862	0.007253	0.027796	0.01828	3
BP	GO:0002003	3/655	12/18862	0.007253	0.027796	0.01828	3
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BP	GO:0043254	26/655	446/18862	0.00726	0.027799	0.018283	26
BP	GO:0007623	15/655	212/18862	0.007329	0.028018	0.018426	15
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BP	GO:0032648	6/655	50/18862	0.007434	0.02835	0.018645	6

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BP	GO:0043279	9/655	99/18862	0.007495	0.028534	0.018766	9
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BP	GO:0071676	4/655	23/18862	0.00754	0.028567	0.018787	4
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BP	GO:0050804	24/655	405/18862	0.007979	0.03018	0.019849	24
BP	GO:0032092	8/655	83/18862	0.008117	0.030679	0.020176	8
BP	GO:0052126	13/655	175/18862	0.008204	0.030982	0.020376	13
BP	GO:0034394	7/655	67/18862	0.008449	0.031829	0.020933	7
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BP	GO:0014812	9/655	101/18862	0.00851	0.032034	0.021068	9
BP	GO:0050868	10/655	119/18862	0.008531	0.032086	0.021102	10
BP	GO:0010737	5/655	37/18862	0.008642	0.032479	0.021361	5
BP	GO:0061351	11/655	138/18862	0.008756	0.032822	0.021586	11
BP	GO:0072006	11/655	138/18862	0.008756	0.032822	0.021586	11
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BP	GO:0050708	18/655	279/18862	0.00895	0.03334	0.021927	18
BP	GO:0002886	6/655	52/18862	0.008987	0.033392	0.021961	6
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BP	GO:0045137	15/655	217/18862	0.008992	0.033392	0.021961	15
BP	GO:0006026	7/655	68/18862	0.009144	0.033584	0.022087	7
BP	GO:0043507	7/655	68/18862	0.009144	0.033584	0.022087	7
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BP	GO:0002430	3/655	13/18862	0.009188	0.033584	0.022087	3
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BP	GO:0010810	15/655	218/18862	0.009359	0.03418	0.022479	15
BP	GO:0009306	22/655	367/18862	0.009513	0.034718	0.022833	22
BP	GO:0010811	10/655	121/18862	0.009544	0.034774	0.02287	10
BP	GO:0034101	10/655	121/18862	0.009544	0.034774	0.02287	10
BP	GO:0032637	9/655	103/18862	0.009626	0.035033	0.02304	9
BP	GO:2000241	12/655	159/18862	0.009629	0.035033	0.02304	12
BP	GO:0097242	5/655	38/18862	0.009674	0.035166	0.023128	5
BP	GO:0045861	21/655	346/18862	0.009763	0.035463	0.023323	21
BP	GO:0035592	22/655	368/18862	0.0098	0.03557	0.023393	22
BP	GO:0007369	13/655	179/18862	0.00982	0.035614	0.023422	13
BP	GO:0001541	6/655	53/18862	0.009844	0.035648	0.023444	6
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BP	GO:0072088	7/655	69/18862	0.00988	0.03575	0.023512	7
BP	GO:0019218	10/655	122/18862	0.010083	0.036456	0.023976	10
BP	GO:0001562	4/655	25/18862	0.010198	0.036586	0.024062	4
BP	GO:0031664	4/655	25/18862	0.010198	0.036586	0.024062	4
BP	GO:0033622	4/655	25/18862	0.010198	0.036586	0.024062	4
BP	GO:0035902	4/655	25/18862	0.010198	0.036586	0.024062	4
BP	GO:0042730	4/655	25/18862	0.010198	0.036586	0.024062	4
BP	GO:0042832	4/655	25/18862	0.010198	0.036586	0.024062	4
BP	GO:0051873	4/655	25/18862	0.010198	0.036586	0.024062	4
BP	GO:0071378	4/655	25/18862	0.010198	0.036586	0.024062	4
BP	GO:0072012	4/655	25/18862	0.010198	0.036586	0.024062	4
BP	GO:0072202	4/655	25/18862	0.010198	0.036586	0.024062	4
BP	GO:0062013	11/655	141/18862	0.010206	0.036586	0.024062	11
BP	GO:0019058	21/655	348/18862	0.010376	0.037168	0.024444	21
BP	GO:0055067	12/655	161/18862	0.010574	0.037849	0.024892	12
BP	GO:0007498	10/655	123/18862	0.010646	0.038077	0.025042	10
BP	GO:0010676	6/655	54/18862	0.010759	0.038376	0.025238	6
BP	GO:0046622	6/655	54/18862	0.010759	0.038376	0.025238	6
BP	GO:0002701	5/655	39/18862	0.010787	0.038376	0.025238	5
BP	GO:0044058	5/655	39/18862	0.010787	0.038376	0.025238	5
BP	GO:0072210	5/655	39/18862	0.010787	0.038376	0.025238	5
BP	GO:1905521	5/655	39/18862	0.010787	0.038376	0.025238	5
BP	GO:2001222	5/655	39/18862	0.010787	0.038376	0.025238	5
BP	GO:0007179	14/655	202/18862	0.011129	0.039561	0.026018	14
BP	GO:0002864	3/655	14/18862	0.011396	0.040266	0.026482	3
BP	GO:0010872	3/655	14/18862	0.011396	0.040266	0.026482	3
BP	GO:0010935	3/655	14/18862	0.011396	0.040266	0.026482	3
BP	GO:0032966	3/655	14/18862	0.011396	0.040266	0.026482	3
BP	GO:0035437	3/655	14/18862	0.011396	0.040266	0.026482	3
BP	GO:0036295	3/655	14/18862	0.011396	0.040266	0.026482	3
BP	GO:0051547	3/655	14/18862	0.011396	0.040266	0.026482	3
BP	GO:0090715	3/655	14/18862	0.011396	0.040266	0.026482	3

BP	GO:0032024	7/655	71/18862	0.011481	0.040414	0.026579	7
BP	GO:0032720	7/655	71/18862	0.011481	0.040414	0.026579	7
BP	GO:0061333	7/655	71/18862	0.011481	0.040414	0.026579	7
BP	GO:0072028	7/655	71/18862	0.011481	0.040414	0.026579	7
BP	GO:0098586	7/655	71/18862	0.011481	0.040414	0.026579	7
BP	GO:0007229	9/655	106/18862	0.011504	0.040432	0.026591	9
BP	GO:0048259	9/655	106/18862	0.011504	0.040432	0.026591	9
BP	GO:0046890	14/655	203/18862	0.011586	0.040659	0.02674	14
BP	GO:1902905	14/655	203/18862	0.011586	0.040659	0.02674	14
BP	GO:0001945	4/655	26/18862	0.011728	0.040802	0.026834	4
BP	GO:0010460	4/655	26/18862	0.011728	0.040802	0.026834	4
BP	GO:0021772	4/655	26/18862	0.011728	0.040802	0.026834	4
BP	GO:0042104	4/655	26/18862	0.011728	0.040802	0.026834	4
BP	GO:0048520	4/655	26/18862	0.011728	0.040802	0.026834	4
BP	GO:0060142	4/655	26/18862	0.011728	0.040802	0.026834	4
BP	GO:0061437	4/655	26/18862	0.011728	0.040802	0.026834	4
BP	GO:0061440	4/655	26/18862	0.011728	0.040802	0.026834	4
BP	GO:0098868	4/655	26/18862	0.011728	0.040802	0.026834	4
BP	GO:1900746	4/655	26/18862	0.011728	0.040802	0.026834	4
BP	GO:0001912	6/655	55/18862	0.011731	0.040802	0.026834	6
BP	GO:1903428	6/655	55/18862	0.011731	0.040802	0.026834	6
BP	GO:0150077	5/655	40/18862	0.011985	0.041651	0.027393	5
BP	GO:0071692	22/655	375/18862	0.012007	0.041699	0.027424	22
BP	GO:0051052	21/655	353/18862	0.012044	0.041796	0.027488	21
BP	GO:0019935	8/655	89/18862	0.012146	0.042087	0.027679	8
BP	GO:0051149	8/655	89/18862	0.012146	0.042087	0.027679	8
BP	GO:1903036	7/655	72/18862	0.012349	0.042757	0.02812	7
BP	GO:1903169	11/655	145/18862	0.012418	0.042965	0.028257	11
BP	GO:0007584	12/655	165/18862	0.012676	0.043826	0.028823	12
BP	GO:0021872	6/655	56/18862	0.012764	0.044066	0.028981	6
BP	GO:0060135	6/655	56/18862	0.012764	0.044066	0.028981	6
BP	GO:0071456	14/655	206/18862	0.013045	0.045001	0.029596	14
BP	GO:0048469	12/655	166/18862	0.013249	0.04564	0.030016	12
BP	GO:0060193	7/655	73/18862	0.013262	0.04564	0.030016	7
BP	GO:0046596	5/655	41/18862	0.013269	0.04564	0.030016	5
BP	GO:0050691	5/655	41/18862	0.013269	0.04564	0.030016	5
BP	GO:0003401	4/655	27/18862	0.013397	0.045844	0.03015	4
BP	GO:0010758	4/655	27/18862	0.013397	0.045844	0.03015	4
BP	GO:0010818	4/655	27/18862	0.013397	0.045844	0.03015	4
BP	GO:0032967	4/655	27/18862	0.013397	0.045844	0.03015	4
BP	GO:0034123	4/655	27/18862	0.013397	0.045844	0.03015	4
BP	GO:0045671	4/655	27/18862	0.013397	0.045844	0.03015	4
BP	GO:0051883	4/655	27/18862	0.013397	0.045844	0.03015	4
BP	GO:0030301	9/655	109/18862	0.013642	0.046648	0.030679	9
BP	GO:0055008	6/655	57/18862	0.01386	0.047057	0.030948	6
BP	GO:0010713	3/655	15/18862	0.013883	0.047057	0.030948	3
BP	GO:0010838	3/655	15/18862	0.013883	0.047057	0.030948	3
BP	GO:0010934	3/655	15/18862	0.013883	0.047057	0.030948	3
BP	GO:0045579	3/655	15/18862	0.013883	0.047057	0.030948	3

BP	GO:0048532	3/655	15/18862	0.013883	0.047057	0.030948	3
BP	GO:0055091	3/655	15/18862	0.013883	0.047057	0.030948	3
BP	GO:0072224	3/655	15/18862	0.013883	0.047057	0.030948	3
BP	GO:1900225	3/655	15/18862	0.013883	0.047057	0.030948	3
BP	GO:2000345	3/655	15/18862	0.013883	0.047057	0.030948	3
BP	GO:2001028	3/655	15/18862	0.013883	0.047057	0.030948	3
BP	GO:2001224	3/655	15/18862	0.013883	0.047057	0.030948	3
BP	GO:0042593	15/655	229/18862	0.014213	0.048141	0.031661	15
BP	GO:0051702	8/655	92/18862	0.014637	0.049527	0.032573	8
BP	GO:0045687	5/655	42/18862	0.014644	0.049527	0.032573	5
BP	GO:0033500	15/655	230/18862	0.014736	0.049804	0.032755	15
BP	GO:1901343	11/655	149/18862	0.014977	0.050581	0.033266	11
BP	GO:0010575	4/655	28/18862	0.015211	0.051259	0.033712	4
BP	GO:0010714	4/655	28/18862	0.015211	0.051259	0.033712	4
BP	GO:1902547	4/655	28/18862	0.015211	0.051259	0.033712	4
BP	GO:0001937	7/655	75/18862	0.015233	0.051259	0.033712	7
BP	GO:0002200	7/655	75/18862	0.015233	0.051259	0.033712	7
BP	GO:0014013	8/655	93/18862	0.015545	0.052271	0.034377	8
BP	GO:0043535	11/655	150/18862	0.015675	0.052671	0.03464	11
BP	GO:0021782	9/655	112/18862	0.016062	0.053933	0.03547	9
BP	GO:0045840	5/655	43/18862	0.01611	0.053979	0.0355	5
BP	GO:1900744	5/655	43/18862	0.01611	0.053979	0.0355	5
BP	GO:2000404	5/655	43/18862	0.01611	0.053979	0.0355	5
BP	GO:0043271	19/655	319/18862	0.016196	0.054227	0.035663	19
BP	GO:0032663	6/655	59/18862	0.016244	0.054269	0.035691	6
BP	GO:0051055	6/655	59/18862	0.016244	0.054269	0.035691	6
BP	GO:0090303	6/655	59/18862	0.016244	0.054269	0.035691	6
BP	GO:0051302	12/655	171/18862	0.016412	0.054792	0.036035	12
BP	GO:0002693	3/655	16/18862	0.016653	0.055164	0.03628	3
BP	GO:0002830	3/655	16/18862	0.016653	0.055164	0.03628	3
BP	GO:0010819	3/655	16/18862	0.016653	0.055164	0.03628	3
BP	GO:0036035	3/655	16/18862	0.016653	0.055164	0.03628	3
BP	GO:0044764	3/655	16/18862	0.016653	0.055164	0.03628	3
BP	GO:0048012	3/655	16/18862	0.016653	0.055164	0.03628	3
BP	GO:0048486	3/655	16/18862	0.016653	0.055164	0.03628	3
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BP	GO:0051580	3/655	16/18862	0.016653	0.055164	0.03628	3
BP	GO:0051709	3/655	16/18862	0.016653	0.055164	0.03628	3
BP	GO:0090594	3/655	16/18862	0.016653	0.055164	0.03628	3
BP	GO:0001916	4/655	29/18862	0.017172	0.05672	0.037303	4
BP	GO:0003209	4/655	29/18862	0.017172	0.05672	0.037303	4
BP	GO:0072539	4/655	29/18862	0.017172	0.05672	0.037303	4
BP	GO:1900745	4/655	29/18862	0.017172	0.05672	0.037303	4
BP	GO:0032868	17/655	278/18862	0.017607	0.058118	0.038223	17
BP	GO:0036294	14/655	214/18862	0.017635	0.058167	0.038255	14
BP	GO:0046427	5/655	44/18862	0.017672	0.058247	0.038307	5
BP	GO:0010633	9/655	114/18862	0.017841	0.058764	0.038647	9
BP	GO:0071897	13/655	194/18862	0.018181	0.059843	0.039357	13
BP	GO:0003300	8/655	96/18862	0.018511	0.060776	0.03997	8

BP	GO:0032091	8/655	96/18862	0.018511	0.060776	0.03997	8
BP	GO:0043255	8/655	96/18862	0.018511	0.060776	0.03997	8
BP	GO:0090101	10/655	134/18862	0.018517	0.060776	0.03997	10
BP	GO:0070373	7/655	78/18862	0.018566	0.060895	0.040049	7
BP	GO:0015849	19/655	324/18862	0.018739	0.06142	0.040394	19
BP	GO:0001704	9/655	115/18862	0.018782	0.061473	0.040429	9
BP	GO:0030218	9/655	115/18862	0.018782	0.061473	0.040429	9
BP	GO:0032623	6/655	61/18862	0.018896	0.061804	0.040646	6
BP	GO:0002828	4/655	30/18862	0.019283	0.062717	0.041247	4
BP	GO:0007176	4/655	30/18862	0.019283	0.062717	0.041247	4
BP	GO:0019934	4/655	30/18862	0.019283	0.062717	0.041247	4
BP	GO:0032743	4/655	30/18862	0.019283	0.062717	0.041247	4
BP	GO:0035666	4/655	30/18862	0.019283	0.062717	0.041247	4
BP	GO:0055022	4/655	30/18862	0.019283	0.062717	0.041247	4
BP	GO:0060045	4/655	30/18862	0.019283	0.062717	0.041247	4
BP	GO:0061117	4/655	30/18862	0.019283	0.062717	0.041247	4
BP	GO:0002707	5/655	45/18862	0.01933	0.062737	0.04126	5
BP	GO:0032924	5/655	45/18862	0.01933	0.062737	0.04126	5
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BP	GO:1902903	21/655	370/18862	0.019371	0.062827	0.04132	21
BP	GO:0001890	10/655	135/18862	0.0194	0.062836	0.041325	10
BP	GO:0042542	10/655	135/18862	0.0194	0.062836	0.041325	10
BP	GO:0002027	8/655	97/18862	0.019584	0.063223	0.04158	8
BP	GO:0010596	8/655	97/18862	0.019584	0.063223	0.04158	8
BP	GO:0034284	13/655	196/18862	0.019612	0.063223	0.04158	13
BP	GO:0042594	13/655	196/18862	0.019612	0.063223	0.04158	13
BP	GO:1903792	14/655	217/18862	0.019641	0.063223	0.04158	14
BP	GO:0001696	3/655	17/18862	0.01971	0.063223	0.04158	3
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BP	GO:0002312	7/655	79/18862	0.019783	0.063326	0.041648	7
BP	GO:0006826	7/655	79/18862	0.019783	0.063326	0.041648	7
BP	GO:0070588	18/655	304/18862	0.019945	0.063802	0.041961	18
BP	GO:0097193	17/655	283/18862	0.020555	0.06571	0.043215	17
BP	GO:2001257	12/655	177/18862	0.020923	0.06684	0.043959	12
BP	GO:0001895	7/655	80/18862	0.021054	0.067211	0.044202	7
BP	GO:0051701	14/655	219/18862	0.021071	0.06722	0.044209	14
BP	GO:0043303	5/655	46/18862	0.021086	0.067223	0.04421	5
BP	GO:0002230	4/655	31/18862	0.021548	0.068182	0.044841	4
BP	GO:0002323	4/655	31/18862	0.021548	0.068182	0.044841	4
BP	GO:0002347	4/655	31/18862	0.021548	0.068182	0.044841	4
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BP	GO:0035456	4/655	31/18862	0.021548	0.068182	0.044841	4
BP	GO:0042044	4/655	31/18862	0.021548	0.068182	0.044841	4
BP	GO:0045920	4/655	31/18862	0.021548	0.068182	0.044841	4
BP	GO:0060317	4/655	31/18862	0.021548	0.068182	0.044841	4
BP	GO:0097421	4/655	31/18862	0.021548	0.068182	0.044841	4
BP	GO:0008202	19/655	329/18862	0.021582	0.068243	0.044881	19
BP	GO:0015718	12/655	178/18862	0.021757	0.068749	0.045214	12
BP	GO:0046916	9/655	118/18862	0.021822	0.068908	0.045319	9
BP	GO:0014897	8/655	99/18862	0.021861	0.068985	0.04537	8
BP	GO:0001889	10/655	138/18862	0.022237	0.070076	0.046087	10
BP	GO:0071322	10/655	138/18862	0.022237	0.070076	0.046087	10
BP	GO:0002279	5/655	47/18862	0.022944	0.071629	0.047108	5
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BP	GO:0002837	3/655	18/18862	0.023054	0.071629	0.047108	3
BP	GO:0002862	3/655	18/18862	0.023054	0.071629	0.047108	3
BP	GO:0003128	3/655	18/18862	0.023054	0.071629	0.047108	3
BP	GO:0007597	3/655	18/18862	0.023054	0.071629	0.047108	3
BP	GO:0032695	3/655	18/18862	0.023054	0.071629	0.047108	3
BP	GO:0032930	3/655	18/18862	0.023054	0.071629	0.047108	3
BP	GO:0033189	3/655	18/18862	0.023054	0.071629	0.047108	3
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BP	GO:0070269	3/655	18/18862	0.023054	0.071629	0.047108	3
BP	GO:1901739	3/655	18/18862	0.023054	0.071629	0.047108	3
BP	GO:0008630	8/655	100/18862	0.023067	0.071629	0.047108	8
BP	GO:0031333	10/655	139/18862	0.023246	0.072135	0.047441	10
BP	GO:0002562	6/655	64/18862	0.023406	0.072392	0.04761	6
BP	GO:0016444	6/655	64/18862	0.023406	0.072392	0.04761	6
BP	GO:0016445	6/655	64/18862	0.023406	0.072392	0.04761	6
BP	GO:0072089	6/655	64/18862	0.023406	0.072392	0.04761	6
BP	GO:1902305	6/655	64/18862	0.023406	0.072392	0.04761	6
BP	GO:0001656	7/655	82/18862	0.023764	0.073401	0.048273	7
BP	GO:2000177	7/655	82/18862	0.023764	0.073401	0.048273	7
BP	GO:0010453	4/655	32/18862	0.023969	0.07379	0.048529	4
BP	GO:0038128	4/655	32/18862	0.023969	0.07379	0.048529	4
BP	GO:0048333	4/655	32/18862	0.023969	0.07379	0.048529	4
BP	GO:0071353	4/655	32/18862	0.023969	0.07379	0.048529	4
BP	GO:0090322	4/655	32/18862	0.023969	0.07379	0.048529	4
BP	GO:0046718	10/655	140/18862	0.024288	0.074672	0.049109	10

BP	GO:0061008	10/655	140/18862	0.024288	0.074672	0.049109	10
BP	GO:0014896	8/655	101/18862	0.02432	0.074672	0.049109	8
BP	GO:0097006	8/655	101/18862	0.02432	0.074672	0.049109	8
BP	GO:0043409	12/655	181/18862	0.024405	0.074884	0.049249	12
CC	GO:0019814	132/659	167/19520	7.70E-65	2.57E-62	1.69E-62	132
CC	GO:0009897	107/659	402/19520	6.79E-66	1.24E-63	1.10E-63	107
CC	GO:0042571	54/659	77/19520	4.70E-62	5.71E-60	5.10E-60	54
CC	GO:0072562	42/659	146/19520	1.32E-27	1.20E-25	1.07E-25	42
CC	GO:0062023	44/659	423/19520	3.70E-11	2.69E-09	2.41E-09	44
CC	GO:0034774	35/659	322/19520	1.21E-09	7.33E-08	6.55E-08	35
CC	GO:0060205	35/659	326/19520	1.68E-09	8.74E-08	7.81E-08	35
CC	GO:0031983	35/659	328/19520	1.98E-09	8.99E-08	8.04E-08	35
CC	GO:0070820	22/659	164/19520	3.60E-08	1.46E-06	1.30E-06	22
CC	GO:0042581	20/659	160/19520	4.80E-07	1.75E-05	1.56E-05	20
CC	GO:0045121	28/659	323/19520	5.40E-06	0.000155	0.000139	28
CC	GO:0098857	28/659	323/19520	5.40E-06	0.000155	0.000139	28
CC	GO:0070821	12/659	73/19520	5.54E-06	0.000155	0.000139	12
CC	GO:0005796	14/659	102/19520	8.34E-06	0.000217	0.000194	14
CC	GO:0031091	13/659	91/19520	1.12E-05	0.000272	0.000243	13
CC	GO:0031093	11/659	67/19520	1.37E-05	0.000313	0.000279	11
CC	GO:0030667	26/659	305/19520	1.56E-05	0.000334	0.000299	26
CC	GO:0043020	5/659	12/19520	2.81E-05	0.000568	0.000507	5
CC	GO:0005581	12/659	87/19520	3.47E-05	0.000666	0.000595	12
CC	GO:0030139	24/659	307/19520	0.000128	0.002331	0.002083	24
CC	GO:0101003	9/659	61/19520	0.000195	0.003375	0.003016	9
CC	GO:0035580	9/659	62/19520	0.000221	0.003658	0.003269	9
CC	GO:0035579	11/659	91/19520	0.000244	0.003855	0.003445	11
CC	GO:0005901	10/659	80/19520	0.000352	0.005335	0.004767	10
CC	GO:1904724	8/659	55/19520	0.000485	0.007059	0.006308	8
CC	GO:0101002	16/659	185/19520	0.000557	0.007795	0.006965	16
CC	GO:0005788	22/659	306/19520	0.000755	0.010177	0.009094	22
CC	GO:0071682	4/659	20/19520	0.004051	0.052668	0.047063	4
CC	GO:0044853	10/659	111/19520	0.004346	0.054548	0.048743	10
MF	GO:0030546	144/606	492/18337	6.80E-98	4.21E-95	3.27E-95	144
MF	GO:0048018	142/606	486/18337	2.42E-96	7.49E-94	5.81E-94	142
MF	GO:0003823	89/606	165/18337	4.41E-88	9.11E-86	7.07E-86	89
MF	GO:0034987	54/606	79/18337	1.21E-61	1.87E-59	1.45E-59	54
MF	GO:0005125	68/606	235/18337	4.67E-45	5.79E-43	4.49E-43	68
MF	GO:0008083	51/606	162/18337	5.74E-36	5.93E-34	4.60E-34	51
MF	GO:0005126	62/606	270/18337	1.18E-34	1.05E-32	8.13E-33	62
MF	GO:0019955	43/606	136/18337	1.46E-30	1.13E-28	8.80E-29	43
MF	GO:0005179	39/606	122/18337	5.05E-28	3.48E-26	2.70E-26	39
MF	GO:0001664	53/606	289/18337	1.03E-24	6.39E-23	4.96E-23	53
MF	GO:0004896	30/606	97/18337	2.32E-21	1.31E-19	1.01E-19	30
MF	GO:0140375	34/606	136/18337	9.94E-21	5.13E-19	3.98E-19	34
MF	GO:0008009	22/606	49/18337	3.91E-20	1.87E-18	1.45E-18	22
MF	GO:0008528	34/606	148/18337	1.81E-19	8.02E-18	6.22E-18	34
MF	GO:0001653	34/606	152/18337	4.46E-19	1.84E-17	1.43E-17	34
MF	GO:0042379	23/606	69/18337	1.68E-17	6.49E-16	5.04E-16	23

MF	GO:0019838	28/606	137/18337	7.24E-15	2.64E-13	2.05E-13	28
MF	GO:0005539	35/606	228/18337	3.02E-14	1.04E-12	8.06E-13	35
MF	GO:0070851	25/606	141/18337	5.81E-12	1.89E-10	1.47E-10	25
MF	GO:0045499	12/606	27/18337	1.68E-11	5.22E-10	4.05E-10	12
MF	GO:0048020	14/606	46/18337	1.44E-10	4.26E-09	3.31E-09	14
MF	GO:0008201	24/606	164/18337	9.49E-10	2.67E-08	2.08E-08	24
MF	GO:0030215	10/606	23/18337	1.12E-09	2.89E-08	2.25E-08	10
MF	GO:0038187	10/606	23/18337	1.12E-09	2.89E-08	2.25E-08	10
MF	GO:0019956	11/606	33/18337	4.69E-09	1.16E-07	9.02E-08	11
MF	GO:0042277	33/606	315/18337	5.25E-09	1.25E-07	9.72E-08	33
MF	GO:0042056	11/606	37/18337	1.84E-08	4.22E-07	3.27E-07	11
MF	GO:0045236	8/606	18/18337	4.44E-08	9.83E-07	7.62E-07	8
MF	GO:0019199	15/606	80/18337	4.69E-08	1.00E-06	7.78E-07	15
MF	GO:0033218	35/606	391/18337	9.96E-08	2.06E-06	1.60E-06	35
MF	GO:1901681	27/606	260/18337	1.57E-07	3.13E-06	2.43E-06	27
MF	GO:0005184	9/606	30/18337	3.41E-07	6.60E-06	5.12E-06	9
MF	GO:0042562	14/606	84/18337	6.00E-07	1.13E-05	8.75E-06	14
MF	GO:0019957	8/606	24/18337	6.26E-07	1.14E-05	8.85E-06	8
MF	GO:0001637	8/606	26/18337	1.25E-06	2.16E-05	1.67E-05	8
MF	GO:0004950	8/606	26/18337	1.25E-06	2.16E-05	1.67E-05	8
MF	GO:0005024	6/606	13/18337	1.79E-06	3.00E-05	2.33E-05	6
MF	GO:0071855	9/606	37/18337	2.41E-06	3.93E-05	3.05E-05	9
MF	GO:1990782	14/606	98/18337	4.04E-06	6.42E-05	4.98E-05	14
MF	GO:0017046	10/606	50/18337	4.49E-06	6.97E-05	5.41E-05	10
MF	GO:0005164	8/606	31/18337	5.47E-06	8.27E-05	6.42E-05	8
MF	GO:0038024	12/606	75/18337	5.94E-06	8.76E-05	6.80E-05	12
MF	GO:0016493	7/606	23/18337	6.43E-06	8.99E-05	6.97E-05	7
MF	GO:0004879	10/606	52/18337	6.52E-06	8.99E-05	6.97E-05	10
MF	GO:0098531	10/606	52/18337	6.52E-06	8.99E-05	6.97E-05	10
MF	GO:0050786	5/606	10/18337	8.51E-06	0.000115	8.90E-05	5
MF	GO:0050431	7/606	24/18337	8.81E-06	0.000116	9.02E-05	7
MF	GO:0030414	19/606	187/18337	1.46E-05	0.000189	0.000147	19
MF	GO:0016175	5/606	11/18337	1.52E-05	0.000192	0.000149	5
MF	GO:0048306	12/606	84/18337	1.96E-05	0.000239	0.000185	12
MF	GO:0005044	9/606	47/18337	1.96E-05	0.000239	0.000185	9
MF	GO:0005501	8/606	37/18337	2.25E-05	0.000268	0.000208	8
MF	GO:0004675	6/606	19/18337	2.39E-05	0.000274	0.000213	6
MF	GO:0030296	6/606	19/18337	2.39E-05	0.000274	0.000213	6
MF	GO:0033612	7/606	28/18337	2.69E-05	0.000298	0.000232	7
MF	GO:0061134	21/606	230/18337	2.70E-05	0.000298	0.000232	21
MF	GO:0019840	8/606	38/18337	2.76E-05	0.000298	0.000232	8
MF	GO:0032813	9/606	49/18337	2.79E-05	0.000298	0.000232	9
MF	GO:0030246	23/606	267/18337	2.88E-05	0.000303	0.000235	23
MF	GO:0004857	29/606	385/18337	3.49E-05	0.00036	0.000279	29
MF	GO:0004713	15/606	135/18337	4.08E-05	0.000414	0.000321	15
MF	GO:0033691	6/606	22/18337	6.03E-05	0.000603	0.000468	6
MF	GO:0061135	18/606	192/18337	7.09E-05	0.000698	0.000542	18
MF	GO:0017134	6/606	23/18337	7.93E-05	0.000768	0.000596	6
MF	GO:0004866	17/606	180/18337	0.000102	0.000966	0.000749	17

MF	GO:0005160	6/606	24/18337	0.000103	0.000966	0.000749	6
MF	GO:0003953	5/606	16/18337	0.000125	0.001092	0.000848	5
MF	GO:0019841	5/606	16/18337	0.000125	0.001092	0.000848	5
MF	GO:0050135	5/606	16/18337	0.000125	0.001092	0.000848	5
MF	GO:0050664	5/606	16/18337	0.000125	0.001092	0.000848	5
MF	GO:0061809	5/606	16/18337	0.000125	0.001092	0.000848	5
MF	GO:0005104	6/606	25/18337	0.000132	0.001133	0.000879	6
MF	GO:0019207	19/606	220/18337	0.000135	0.001149	0.000892	19
MF	GO:0004714	9/606	61/18337	0.000166	0.001388	0.001077	9
MF	GO:0017171	17/606	188/18337	0.000174	0.001434	0.001113	17
MF	GO:0019887	17/606	190/18337	0.000197	0.001607	0.001247	17
MF	GO:0042834	5/606	18/18337	0.000232	0.00187	0.001451	5
MF	GO:0008236	16/606	186/18337	0.000467	0.003689	0.002862	16
MF	GO:0004252	15/606	168/18337	0.00047	0.003689	0.002862	15
MF	GO:0004869	8/606	56/18337	0.000476	0.003691	0.002864	8
MF	GO:0001530	6/606	32/18337	0.000553	0.004233	0.003284	6
MF	GO:0030971	9/606	72/18337	0.00059	0.004457	0.003458	9
MF	GO:0039706	4/606	13/18337	0.000665	0.004912	0.003811	4
MF	GO:0070700	4/606	13/18337	0.000665	0.004912	0.003811	4
MF	GO:0005178	13/606	142/18337	0.000871	0.006353	0.004929	13
MF	GO:0070696	5/606	24/18337	0.000978	0.00705	0.00547	5
MF	GO:0042923	5/606	25/18337	0.001189	0.008396	0.006514	5
MF	GO:0031406	15/606	184/18337	0.001203	0.008396	0.006514	15
MF	GO:0048185	4/606	15/18337	0.001205	0.008396	0.006514	4
MF	GO:0001540	9/606	84/18337	0.001798	0.01225	0.009505	9
MF	GO:0030295	9/606	84/18337	0.001798	0.01225	0.009505	9
MF	GO:0051427	14/606	173/18337	0.001854	0.012493	0.009693	14
MF	GO:0030169	4/606	17/18337	0.001994	0.013293	0.010314	4
MF	GO:0043178	9/606	86/18337	0.002119	0.013978	0.010846	9
MF	GO:0033293	8/606	71/18337	0.002315	0.015111	0.011724	8
MF	GO:0016500	4/606	18/18337	0.002497	0.015962	0.012384	4
MF	GO:0016918	4/606	18/18337	0.002497	0.015962	0.012384	4
MF	GO:0071813	5/606	30/18337	0.002785	0.017439	0.01353	5
MF	GO:0071814	5/606	30/18337	0.002785	0.017439	0.01353	5
MF	GO:0019209	9/606	90/18337	0.002898	0.01797	0.013943	9
MF	GO:0004955	3/606	10/18337	0.003622	0.021804	0.016918	3
MF	GO:0005031	3/606	10/18337	0.003622	0.021804	0.016918	3
MF	GO:0017002	3/606	10/18337	0.003622	0.021804	0.016918	3
MF	GO:0001972	4/606	20/18337	0.003752	0.022369	0.017356	4
MF	GO:0001848	4/606	21/18337	0.004516	0.026411	0.020492	4
MF	GO:0051428	4/606	21/18337	0.004516	0.026411	0.020492	4
MF	GO:0004954	3/606	11/18337	0.004859	0.027896	0.021644	3
MF	GO:0019864	3/606	11/18337	0.004859	0.027896	0.021644	3
MF	GO:0043027	4/606	22/18337	0.005377	0.030583	0.023729	4
MF	GO:0016860	6/606	50/18337	0.005874	0.03311	0.02569	6
MF	GO:0043394	5/606	36/18337	0.006262	0.033893	0.026297	5
MF	GO:0004875	3/606	12/18337	0.006321	0.033893	0.026297	3
MF	GO:0005035	3/606	12/18337	0.006321	0.033893	0.026297	3
MF	GO:0017154	3/606	12/18337	0.006321	0.033893	0.026297	3

MF	GO:0089720	3/606	12/18337	0.006321	0.033893	0.026297	3
MF	GO:0009931	4/606	23/18337	0.006341	0.033893	0.026297	4
MF	GO:0005504	5/606	37/18337	0.007048	0.037061	0.028755	5
MF	GO:0005518	7/606	68/18337	0.007053	0.037061	0.028755	7
MF	GO:0010857	4/606	24/18337	0.007414	0.038627	0.02997	4
MF	GO:0016799	5/606	38/18337	0.0079	0.040748	0.031616	5
MF	GO:0036122	3/606	13/18337	0.008018	0.040748	0.031616	3
MF	GO:0061783	3/606	13/18337	0.008018	0.040748	0.031616	3
MF	GO:0050840	6/606	55/18337	0.009335	0.047053	0.036508	6
MF	GO:0003707	4/606	26/18337	0.009903	0.048611	0.037717	4
MF	GO:0005041	3/606	14/18337	0.009957	0.048611	0.037717	3
MF	GO:0005172	3/606	14/18337	0.009957	0.048611	0.037717	3
MF	GO:0044548	3/606	14/18337	0.009957	0.048611	0.037717	3
MF	GO:0045309	6/606	56/18337	0.010171	0.048886	0.037931	6
MF	GO:0019903	11/606	148/18337	0.010172	0.048886	0.037931	11
MF	GO:0004953	3/606	15/18337	0.012145	0.057924	0.044943	3
MF	GO:0046625	4/606	28/18337	0.012877	0.060945	0.047286	4
KEGG	hsa04060	89/395	295/8102	2.73E-48	6.85E-46	4.91E-46	89
KEGG	hsa04061	37/395	100/8102	1.14E-23	1.43E-21	1.03E-21	37
KEGG	hsa04080	55/395	350/8102	3.65E-15	3.06E-13	2.19E-13	55
KEGG	hsa04062	37/395	192/8102	2.97E-13	1.86E-11	1.34E-11	37
KEGG	hsa04630	32/395	162/8102	6.47E-12	3.25E-10	2.33E-10	32
KEGG	hsa04657	21/395	94/8102	2.94E-09	1.23E-07	8.83E-08	21
KEGG	hsa05323	19/395	93/8102	7.89E-08	2.83E-06	2.03E-06	19
KEGG	hsa04610	18/395	85/8102	9.76E-08	3.06E-06	2.20E-06	18
KEGG	hsa05417	29/395	215/8102	5.15E-07	1.44E-05	1.03E-05	29
KEGG	hsa04064	18/395	104/8102	2.28E-06	5.73E-05	4.11E-05	18
KEGG	hsa05171	28/395	232/8102	7.49E-06	0.000171	0.000122	28
KEGG	hsa04380	19/395	128/8102	1.24E-05	0.00026	0.000186	19
KEGG	hsa04010	32/395	294/8102	1.48E-05	0.000286	0.000205	32
KEGG	hsa04668	17/395	112/8102	2.65E-05	0.000471	0.000337	17
KEGG	hsa04621	23/395	184/8102	2.81E-05	0.000471	0.000337	23
KEGG	hsa04151	35/395	354/8102	4.64E-05	0.000727	0.000522	35
KEGG	hsa04014	26/395	232/8102	5.81E-05	0.000858	0.000615	26
KEGG	hsa04360	22/395	182/8102	7.02E-05	0.000978	0.000702	22
KEGG	hsa04015	24/395	210/8102	8.20E-05	0.001084	0.000777	24
KEGG	hsa04933	15/395	100/8102	9.04E-05	0.001135	0.000814	15
KEGG	hsa05144	10/395	50/8102	0.00012	0.001391	0.000998	10
KEGG	hsa05169	23/395	202/8102	0.000122	0.001391	0.000998	23
KEGG	hsa05218	12/395	72/8102	0.000164	0.001746	0.001252	12
KEGG	hsa04350	14/395	94/8102	0.000167	0.001746	0.001252	14
KEGG	hsa05133	12/395	76/8102	0.000278	0.00279	0.002001	12
KEGG	hsa01521	12/395	79/8102	0.000402	0.003746	0.002686	12
KEGG	hsa05418	17/395	139/8102	0.000403	0.003746	0.002686	17
KEGG	hsa04620	14/395	104/8102	0.000489	0.004381	0.003142	14
KEGG	hsa04650	16/395	131/8102	0.000602	0.005208	0.003734	16
KEGG	hsa04614	6/395	23/8102	0.000643	0.005377	0.003856	6
KEGG	hsa04024	22/395	219/8102	0.000979	0.007928	0.005686	22
KEGG	hsa05167	20/395	194/8102	0.001198	0.009396	0.006739	20

KEGG	hsa04020	23/395	240/8102	0.001434	0.010909	0.007823	23
KEGG	hsa04924	10/395	69/8102	0.001745	0.012884	0.009239	10
KEGG	hsa04270	15/395	134/8102	0.002152	0.015433	0.011067	15
KEGG	hsa05150	12/395	96/8102	0.002325	0.016141	0.011575	12
KEGG	hsa04066	13/395	109/8102	0.002379	0.016141	0.011575	13
KEGG	hsa04012	11/395	85/8102	0.002652	0.017516	0.012561	11
KEGG	hsa04145	16/395	152/8102	0.002926	0.018831	0.013504	16
KEGG	hsa05219	7/395	41/8102	0.003312	0.020781	0.014903	7
KEGG	hsa05146	12/395	102/8102	0.003869	0.023683	0.016984	12
KEGG	hsa04625	12/395	104/8102	0.004536	0.027109	0.01944	12
KEGG	hsa04928	12/395	106/8102	0.005293	0.030895	0.022156	12
KEGG	hsa05161	16/395	162/8102	0.005485	0.031291	0.02244	16
KEGG	hsa05226	15/395	149/8102	0.005928	0.032892	0.023588	15
KEGG	hsa05134	8/395	57/8102	0.006028	0.032892	0.023588	8
KEGG	hsa05207	19/395	212/8102	0.007453	0.039801	0.028542	19
KEGG	hsa05162	14/395	139/8102	0.007685	0.040188	0.02882	14
KEGG	hsa05223	9/395	72/8102	0.007934	0.040642	0.029146	9
KEGG	hsa05143	6/395	37/8102	0.008316	0.041748	0.029939	6
KEGG	hsa04640	11/395	99/8102	0.008538	0.042018	0.030133	11
KEGG	hsa04672	7/395	49/8102	0.009064	0.043754	0.031377	7
KEGG	hsa05340	6/395	38/8102	0.00948	0.044898	0.032198	6
KEGG	hsa04926	13/395	129/8102	0.009976	0.046369	0.033253	13
KEGG	hsa05214	9/395	75/8102	0.010305	0.047028	0.033725	9
KEGG	hsa05166	19/395	222/8102	0.011917	0.053413	0.038304	19
KEGG	hsa05224	14/395	147/8102	0.012306	0.054189	0.03886	14
KEGG	hsa04072	14/395	148/8102	0.013009	0.056299	0.040374	14
KEGG	hsa05163	19/395	225/8102	0.013607	0.057887	0.041512	19

Table.S2 GO terms and KEGG pathways enriched in blue modules

ONTOLOGY	ID	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	Count
BP	GO:0006958	87/182	141/18862	2.4557E-147	3.6221E-144	3.2208E-144	87
BP	GO:0002455	88/182	156/18862	4.8384E-144	3.5683E-141	3.1729E-141	88
BP	GO:0006956	88/182	178/18862	6.0405E-137	2.9699E-134	2.6408E-134	88
BP	GO:0019724	92/182	226/18862	1.4914E-133	5.4994E-131	4.8901E-131	92
BP	GO:0016064	91/182	223/18862	4.4402E-132	1.3098E-129	1.1647E-129	91
BP	GO:0002460	96/182	367/18862	6.6263E-118	1.629E-115	1.4485E-115	96
BP	GO:0006959	95/182	380/18862	2.1038E-114	4.4329E-112	3.9418E-112	95
BP	GO:0002449	93/182	360/18862	3.3538E-113	6.1836E-111	5.4985E-111	93
BP	GO:0002377	78/182	198/18862	3.2536E-110	5.3323E-108	4.7415E-108	78
BP	GO:0006909	89/182	381/18862	2.096E-103	3.0915E-101	2.749E-101	89
BP	GO:0002440	79/182	286/18862	3.61E-97	4.84E-95	4.31E-95	79
BP	GO:0002429	90/182	481/18862	3.46E-95	3.93E-93	3.49E-93	90
BP	GO:0002757	90/182	481/18862	3.46E-95	3.93E-93	3.49E-93	90
BP	GO:0030449	58/182	115/18862	1.05E-88	1.11E-86	9.87E-87	58
BP	GO:0002920	60/182	138/18862	9.55E-87	9.39E-85	8.35E-85	60
BP	GO:0006910	53/182	98/18862	4.82E-83	4.44E-81	3.95E-81	53
BP	GO:0002433	57/182	139/18862	2.18E-80	1.79E-78	1.59E-78	57

BP	GO:0038096	57/182	139/18862	2.18E-80	1.79E-78	1.59E-78	57
BP	GO:0038094	57/182	140/18862	3.65E-80	2.84E-78	2.52E-78	57
BP	GO:0050853	56/182	134/18862	1.65E-79	1.22E-77	1.08E-77	56
BP	GO:0002431	57/182	145/18862	4.50E-79	3.16E-77	2.81E-77	57
BP	GO:0050871	56/182	150/18862	4.43E-76	2.97E-74	2.64E-74	56
BP	GO:0006911	53/182	126/18862	2.69E-75	1.72E-73	1.53E-73	53
BP	GO:0099024	53/182	135/18862	2.69E-73	1.66E-71	1.47E-71	53
BP	GO:0050864	58/182	193/18862	2.23E-72	1.32E-70	1.17E-70	58
BP	GO:0010324	53/182	143/18862	1.17E-71	6.64E-70	5.90E-70	53
BP	GO:0038095	53/182	169/18862	4.75E-67	2.60E-65	2.31E-65	53
BP	GO:0038093	57/182	239/18862	1.43E-64	7.52E-63	6.69E-63	57
BP	GO:0042113	62/182	326/18862	7.12E-64	3.62E-62	3.22E-62	62
BP	GO:0051251	62/182	356/18862	2.41E-61	1.18E-59	1.05E-59	62
BP	GO:0008037	54/182	232/18862	2.12E-60	1.01E-58	8.96E-59	54
BP	GO:0002697	65/182	465/18862	5.09E-58	2.34E-56	2.08E-56	65
BP	GO:0002696	62/182	401/18862	5.65E-58	2.53E-56	2.25E-56	62
BP	GO:0006898	58/182	328/18862	1.41E-57	6.12E-56	5.44E-56	58
BP	GO:0050867	62/182	412/18862	3.24E-57	1.37E-55	1.22E-55	62
BP	GO:0050851	56/182	323/18862	5.50E-55	2.25E-53	2.00E-53	56
BP	GO:0042742	57/182	344/18862	7.80E-55	3.11E-53	2.77E-53	57
BP	GO:0019730	9/182	142/18862	9.88E-06	0.000383434	0.000340952	9
BP	GO:0070098	7/182	88/18862	2.28E-05	0.000862396	0.000766848	7
BP	GO:1990868	7/182	97/18862	4.29E-05	0.001543412	0.001372411	7
BP	GO:1990869	7/182	97/18862	4.29E-05	0.001543412	0.001372411	7
BP	GO:0045625	3/182	10/18862	0.000100883	0.003542929	0.003150394	3
BP	GO:0031295	5/182	57/18862	0.000220804	0.007480942	0.006652099	5
BP	GO:0050870	9/182	212/18862	0.00022316	0.007480942	0.006652099	9
BP	GO:0045785	13/182	425/18862	0.000256062	0.008334876	0.007411422	13
BP	GO:0031294	5/182	59/18862	0.000259935	0.008334876	0.007411422	5
BP	GO:0019731	5/182	61/18862	0.000304121	0.009544208	0.008486768	5
BP	GO:0022409	10/182	276/18862	0.000359743	0.011054613	0.009829829	10
BP	GO:0042102	6/182	99/18862	0.000396311	0.011929759	0.010608014	6
BP	GO:1903039	9/182	234/18862	0.000460549	0.013586195	0.012080927	9
BP	GO:0030593	6/182	103/18862	0.000489921	0.014169275	0.012599405	6
BP	GO:0045622	4/182	39/18862	0.000529831	0.015028865	0.013363758	4
BP	GO:0045580	7/182	146/18862	0.000545377	0.015177948	0.013496323	7
BP	GO:0045063	3/182	18/18862	0.000648071	0.017701942	0.015740674	3
BP	GO:1903131	12/182	411/18862	0.000666976	0.017887082	0.015905302	12
BP	GO:0070661	10/182	312/18862	0.000928852	0.024465311	0.021754703	10
BP	GO:0061844	5/182	78/18862	0.000945897	0.024477158	0.021765237	5
BP	GO:0001895	5/182	80/18862	0.001060584	0.026601175	0.023653926	5
BP	GO:0030574	4/182	47/18862	0.001082082	0.026601175	0.023653926	4
BP	GO:0097028	4/182	47/18862	0.001082082	0.026601175	0.023653926	4
BP	GO:0034612	10/182	320/18862	0.001124348	0.027187113	0.024174946	10
BP	GO:1990266	6/182	123/18862	0.001242864	0.029141782	0.02591305	6
BP	GO:0042129	7/182	168/18862	0.0012447	0.029141782	0.02591305	7
BP	GO:0070231	4/182	49/18862	0.001266282	0.029183848	0.025950454	4
BP	GO:0071621	6/182	124/18862	0.001295782	0.029404283	0.026146467	6
BP	GO:0050863	10/182	327/18862	0.001321906	0.029542585	0.026269446	10

BP	GO:1903037	10/182	330/18862	0.001414817	0.03114709	0.027696181	10
BP	GO:0043370	4/182	51/18862	0.001471354	0.031915407	0.028379373	4
BP	GO:0033209	7/182	174/18862	0.001523251	0.032461303	0.028864787	7
BP	GO:0003094	3/182	24/18862	0.001540536	0.032461303	0.028864787	3
BP	GO:0045619	7/182	175/18862	0.001574054	0.032590731	0.028979876	7
BP	GO:1902105	9/182	279/18862	0.001591699	0.032590731	0.028979876	9
BP	GO:0030595	8/182	226/18862	0.001612965	0.032590731	0.028979876	8
BP	GO:0046651	9/182	282/18862	0.001712501	0.034134311	0.030352436	9
BP	GO:0097205	3/182	25/18862	0.001738264	0.034185856	0.030398271	3
BP	GO:0032943	9/182	285/18862	0.001840551	0.035721221	0.031763527	9
BP	GO:0050671	6/182	135/18862	0.001998491	0.038282785	0.034041284	6
BP	GO:0032946	6/182	136/18862	0.002074308	0.039225687	0.034879719	6
BP	GO:0002825	3/182	27/18862	0.00217957	0.040185821	0.035733476	3
BP	GO:0033688	3/182	27/18862	0.00217957	0.040185821	0.035733476	3
BP	GO:0071356	9/182	296/18862	0.002377149	0.042784794	0.038044498	9
BP	GO:0042100	5/182	96/18862	0.002383124	0.042784794	0.038044498	5
BP	GO:0070663	8/182	241/18862	0.002407551	0.042784794	0.038044498	8
BP	GO:0030098	10/182	358/18862	0.002565615	0.045050981	0.040059606	10
BP	GO:0042098	7/182	195/18862	0.002896997	0.050271416	0.044701648	7
BP	GO:0034694	3/182	30/18862	0.002961878	0.050296625	0.044724064	3
BP	GO:0060326	9/182	306/18862	0.002966648	0.050296625	0.044724064	9
BP	GO:0007159	10/182	366/18862	0.00300519	0.050371089	0.044790278	10
BP	GO:0071887	5/182	102/18862	0.003100677	0.05127399	0.045593143	5
BP	GO:0070665	6/182	148/18862	0.003163344	0.05127399	0.045593143	6
BP	GO:0097530	6/182	148/18862	0.003163344	0.05127399	0.045593143	6
BP	GO:0007204	9/182	310/18862	0.003232522	0.051825768	0.046083788	9
BP	GO:0050777	6/182	150/18862	0.003379806	0.052712379	0.046872167	6
BP	GO:0042093	4/182	64/18862	0.003395035	0.052712379	0.046872167	4
BP	GO:0048247	4/182	64/18862	0.003395035	0.052712379	0.046872167	4
BP	GO:0022407	11/182	437/18862	0.003534615	0.054251836	0.048241062	11
BP	GO:0033687	3/182	32/18862	0.003567748	0.054251836	0.048241062	3
CC	GO:0019814	132/182	167/19520	1.8301E-261	1.9399E-259	1.9265E-259	132
CC	GO:0042571	54/182	77/19520	7.98E-95	4.23E-93	4.20E-93	54
CC	GO:0009897	66/182	402/19520	9.72E-65	3.44E-63	3.41E-63	66
CC	GO:0072562	29/182	146/19520	1.74E-30	4.61E-29	4.58E-29	29
MF	GO:0003823	83/132	165/18337	7.17E-145	1.10E-142	9.35E-143	83
MF	GO:0034987	53/132	79/18337	6.92E-99	5.30E-97	4.52E-97	53
MF	GO:0005125	12/132	235/18337	1.33E-07	6.81E-06	5.81E-06	12
MF	GO:0008009	6/132	49/18337	1.35E-06	5.15E-05	4.39E-05	6
MF	GO:0005126	11/132	270/18337	4.13E-06	0.000126407	0.000107839	11
MF	GO:0045236	4/132	18/18337	7.26E-06	0.000185121	0.000157929	4
MF	GO:0042379	6/132	69/18337	1.03E-05	0.000210702	0.000179753	6
MF	GO:0048018	14/132	486/18337	1.10E-05	0.000210702	0.000179753	14
MF	GO:0030546	14/132	492/18337	1.26E-05	0.000214924	0.000183354	14
MF	GO:0019955	6/132	136/18337	0.000454249	0.006950009	0.005929145	6
MF	GO:0001664	8/132	289/18337	0.001179002	0.016398841	0.013990067	8
MF	GO:0005164	3/132	31/18337	0.001414288	0.018032167	0.015383479	3
MF	GO:0016175	2/132	11/18337	0.002710796	0.031903982	0.027217708	2
MF	GO:0048020	3/132	46/18337	0.004415674	0.048257012	0.041168693	3

MF	GO:0032813	3/132	49/18337	0.005276101	0.053816228	0.045911333	3
MF	GO:0050664	2/132	16/18337	0.005776835	0.055240981	0.047126809	2
MF	GO:0005539	6/132	228/18337	0.006181965	0.055637682	0.047465239	6
MF	GO:0008201	5/132	164/18337	0.006696695	0.056921903	0.048560826	5
KEGG	hsa04060	17/37	295/8102	1.82E-15	2.27E-13	2.01E-13	17
KEGG	hsa04061	9/37	100/8102	4.31E-10	2.70E-08	2.38E-08	9
KEGG	hsa04062	8/37	192/8102	1.84E-06	7.67E-05	6.78E-05	8
KEGG	hsa05340	4/37	38/8102	2.43E-05	0.00076	0.000672	4
KEGG	hsa04672	3/37	49/8102	0.001398	0.03495	0.030903	3

Table S3. Correlation between IRGPI subgroups and clinicopathological factors in the TCGA cohort

Id	futime	fustat	Age	Gender	Stage	T	M	N
TCGA-J2-8192	739	0	65	FEMALE	Stage IIA	T2a	MX	N1
TCGA-91-8499	36	0	76	FEMALE	Stage IA	T1b	MX	N0
TCGA-53-7624	1043	1	40	FEMALE	Stage IV	T2	M1	N0
TCGA-55-6986	3261	0	74	FEMALE	Stage IB	T2	M0	N0
TCGA-38-4632	1357	1	42	MALE	Stage IV	T2	M1	N1
TCGA-78-7146	173	1	71	FEMALE	Stage IIIA	T2	M0	N2
TCGA-NJ-A4YG	2261	0	65	MALE	Stage IB	T2	M0	N0
TCGA-86-8279	949	0	46	MALE	Stage IIA	T2a	M0	N1
TCGA-50-6591	119	1	63	FEMALE	Stage IV	T2	M1	N0
TCGA-50-5939	460	1	85	MALE	Stage IB	T2	M0	N0
TCGA-62-8402	1498	1	73	FEMALE	Stage IIIA	T2	M0	N2
TCGA-49-4506	999	1	68	FEMALE	Stage IIB	T2	M0	N1
TCGA-91-6847	842	0	62	FEMALE	Stage IB	T2	MX	N0
TCGA-97-8547	657	0	78	FEMALE	Stage IIIA	T2a	MX	N2
TCGA-97-7546	1285	0	76	FEMALE	Stage IA	T1	MX	N0
TCGA-73-4659	711	1	66	MALE	Stage IIIA	T2	M0	N2
TCGA-55-A48Y	630	0	69	MALE	Stage IIA	T2b	M0	N0
TCGA-50-5049	3094	0	70	MALE	Stage IA	T2	M0	N0
TCGA-44-3396	1130	0	74	FEMALE	Stage IIIA	T2	M0	N2
TCGA-05-4405	610	0	74	FEMALE	Stage IB	T2	M0	N0
TCGA-78-8662	3361	1	53	FEMALE	Stage IB	T2	M0	N0
TCGA-50-8460	829	0	74	MALE	Stage IA	T1a	M0	N0
TCGA-55-8087	462	0	59	FEMALE	Stage IB	T2a	MX	N0
TCGA-MP-A4TA	950	1	75	FEMALE	Stage IA	T1	M0	N0
TCGA-55-7815	773	0	76	MALE	Stage IB	T2a	MX	N0
TCGA-55-8096	719	1	67	FEMALE	Stage IB	T2a	MX	N0
TCGA-NJ-A55R	603	0	67	MALE	Stage IA	T1b	MX	N0
TCGA-91-7771	492	0	62	MALE	Stage IIB	T3	MX	N0
TCGA-69-7760	202	0	73	MALE	Stage IIB	T3	M0	N0
TCGA-44-5644	863	0	51	FEMALE	Stage IB	T2a	unknow	N0
TCGA-69-7973	230	0	42	FEMALE	Stage IB	T2a	M0	N0
TCGA-44-6145	595	0	62	FEMALE	Stage IA	T1	M0	N0
TCGA-64-1676	1728	0	58	MALE	Stage IA	T1a	M0	N0

TCGA-97-7553	1870	0	58	FEMALE	Stage IA	T1	MX	N0
TCGA-55-8511	552	0	73	FEMALE	Stage IB	T2a	MX	N0
TCGA-MP-A4TF	336	1	58	FEMALE	Stage IIA	T2b	M0	N0
TCGA-55-8204	515	0	87	FEMALE	Stage IB	T2a	MX	N0
TCGA-55-8616	48	0	58	FEMALE	Stage IB	T2a	M0	N0
TCGA-86-8281	0	0	75	MALE	Stage IA	T1	M0	NX
TCGA-55-7574	995	1	64	FEMALE	Stage IB	T2a	M0	N0
TCGA-L9-A743	664	0	56	MALE	Stage IIA	T2a	M0	N1
TCGA-73-4670	131	0	69	FEMALE	Stage IV	T2	M1	N0
TCGA-50-5066	1442	0	72	MALE	Stage IB	T2	M0	N0
TCGA-75-5126		0	unknow	FEMALE	Stage IIIA	T3	M0	N2
TCGA-64-5779	864	0	61	MALE	Stage IIIA	T2	M0	N2
TCGA-55-6543	435	0	60	FEMALE	Stage IA	T1b	MX	N0
TCGA-55-A48Z	651	0	60	FEMALE	Stage IIIB	T1a	MX	N3
TCGA-86-8278	944	0	63	FEMALE	Stage IIB	T2	M0	N1
TCGA-L4-A4E5	578	0	48	FEMALE	Stage I	T1	M0	N0
TCGA-49-4505	428	1	61	FEMALE	Stage IIB	T2	M0	N1
TCGA-69-7980	411	0	70	FEMALE	Stage I	T1b	M0	N0
TCGA-55-7725	442	0	68	FEMALE	Stage IA	T1a	MX	N0
TCGA-78-7162	3169	1	75	MALE	Stage IA	T1	M0	N0
TCGA-80-5608	2832	0	unknow	FEMALE	Stage IA	T1	M0	N0
TCGA-78-7159	1974	0	60	FEMALE	Stage IA	T1	M0	NX
TCGA-MP-A4TI	429	1	72	MALE	Stage IIA	T2a	M0	N1
TCGA-78-7542	321	1	56	MALE	Stage IB	T2	M0	N0
TCGA-91-6836	417	0	52	FEMALE	Stage IB	T2	MX	N0
TCGA-78-7537	1622	1	72	MALE	Stage IB	T2	M0	N0
TCGA-97-7941	484	0	72	FEMALE	Stage IA	T1b	MX	N0
TCGA-MP-A4TJ	339	1	62	FEMALE	Stage IA	T1	M0	N0
TCGA-78-8660	321	1	69	MALE	Stage IIB	T2	M0	N1
TCGA-49-AARQ	6732	0	41	FEMALE	Stage I	T2	MX	N0
TCGA-05-4415	91	1	57	MALE	Stage IIIB	T4	M0	N2
TCGA-86-A4JF	737	1	56	MALE	Stage IIB	T3	M0	N0
TCGA-86-7701	947	0	66	MALE	Stage IV	T2	M1	N0
TCGA-44-3918	1036	0	60	FEMALE	Stage IA	T1	M0	N0
TCGA-50-6597	1268	1	79	FEMALE	Stage IB	T2	M0	N0
TCGA-NJ-A4YI	4	1	87	FEMALE	Stage IIIA	T2	M0	N2
TCGA-86-8280	701	0	54	FEMALE	Stage IIA	T2b	M0	N0
TCGA-44-2666	97	1	43	MALE	Stage IB	T2	M0	N0
TCGA-78-7154	593	1	72	MALE	Stage IIIA	T3	M0	N2
TCGA-55-A491	626	0	81	FEMALE	Stage IA	T1b	MX	N0
TCGA-05-4390	1126	0	58	FEMALE	Stage IB	T2	M0	N0
TCGA-05-4382	607	0	68	MALE	Stage IB	T2	M0	N0
TCGA-55-8206	888	0	56	MALE	Stage IA	T1b	M0	N0
TCGA-55-7576	670	0	54	MALE	Stage IB	T2a	M0	N0
TCGA-55-8506	11	0	62	FEMALE	Stage IIB	T3	MX	N0
TCGA-50-5930	282	1	47	MALE	Stage IIIA	T2	M0	N2
TCGA-05-4403	578	0	76	MALE	Stage IB	T2	M0	N0
TCGA-55-7911	537	0	70	FEMALE	Stage IA	T1a	MX	N0
TCGA-78-7143	4961	1	62	FEMALE	Stage IB	T2	M0	N0

TCGA-62-A46P	594	1	65	MALE	Stage IB	T2	M0	N0
TCGA-95-8494	84	0	67	MALE	Stage IIA	T2a	M0	N1
TCGA-35-5375	264	0	61	MALE	Stage IIIA	T2	M0	N2
TCGA-78-7163	7248	0	60	MALE	Stage IB	T2	M0	N0
TCGA-05-4417	455	0	51	FEMALE	Stage IB	T2	M0	N0
TCGA-91-6828	323	0	70	MALE	Stage IA	T1a	M0	N0
TCGA-44-A47A	466	0	78	FEMALE	Stage IB	T2a	MX	N0
TCGA-L9-A443	193	1	63	FEMALE	Stage IA	T1a	MX	N0
TCGA-86-A4D0	116	1	48	MALE	Stage IIA	T2b	M0	N0
TCGA-44-A479	486	0	73	FEMALE	Stage IB	T2	MX	N0
TCGA-97-A4LX	614	0	81	MALE	Stage IB	T2a	M0	N0
TCGA-49-4486	2318	1	72	MALE	Stage IA	T1	M0	N0
TCGA-50-5932	1235	1	75	MALE	Stage IIB	T2	M0	N1
TCGA-86-8073	740	0	58	MALE	Stage IB	T2a	M0	N0
TCGA-NJ-A55O	13	0	56	FEMALE	Stage IIA	T1b	M0	N1
TCGA-55-A494	481	0	61	FEMALE	Stage IB	T2a	MX	N0
TCGA-69-7765	165	0	56	MALE	unknow	T4	MX	N0
TCGA-86-8672	19	1	59	MALE	Stage IIB	T3	M0	N0
TCGA-49-4488	869	1	74	FEMALE	Stage IA	T1	MX	N0
TCGA-55-7903	567	0	64	MALE	Stage IA	T1b	MX	N0
TCGA-MP-A4T2	1136	1	71	MALE	Stage IA	T1	M0	N0
TCGA-49-4487	855	1	72	FEMALE	Stage IA	T1	M0	N0
TCGA-99-8033	656	1	74	FEMALE	Stage IV	TX	M1	NX
TCGA-50-5068	1499	1	59	FEMALE	Stage IIB	T2	MX	N1
TCGA-55-6978	176	1	81	MALE	Stage IIA	T2b	MX	N0
TCGA-91-A4BC	44	0	59	MALE	Stage IIA	T2b	MX	N0
TCGA-49-4490	385	1	45	FEMALE	Stage IIIA	T3	M0	N2
TCGA-86-7955	1072	0	62	MALE	Stage IB	T2a	M0	N0
TCGA-05-4430	761	0	59	FEMALE	Stage IB	T2	M0	N0
TCGA-44-3398	1163	0	77	FEMALE	Stage IA	T1b	M0	N0
TCGA-49-4507	268	1	73	FEMALE	Stage IIIA	T3	M0	N1
TCGA-97-A4M5	634	0	83	MALE	Stage IA	T1b	M0	N0
TCGA-49-6745	522	0	82	MALE	Stage IIIA	T2a	M0	N2
TCGA-86-8674	806	0	50	MALE	Stage IIA	T2a	M0	N1
TCGA-05-4384	426	0	66	MALE	Stage IIIA	T2	M0	N2
TCGA-69-7979	408	0	71	FEMALE	Stage IB	T2a	MX	N0
TCGA-78-7147	586	1	67	FEMALE	Stage IIB	T2	M0	N1
TCGA-93-7347	683	0	76	FEMALE	Stage IA	T1a	MX	N0
TCGA-49-4514	1700	0	79	FEMALE	Stage IA	T1	M0	N0
TCGA-49-6742	488	1	70	MALE	Stage IIA	T2a	M0	N1
TCGA-MN-A4N1	827	0	60	MALE	Stage IIA	T2a	M0	N1
TCGA-J2-A4AD	550	1	61	FEMALE	Stage IA	T1a	MX	N0
TCGA-78-7160	697	1	61	MALE	Stage IV	T4	M1	N2
TCGA-05-4397	731	1	65	MALE	Stage IIB	T2	M0	N1
TCGA-91-8497	434	1	75	FEMALE	Stage IA	T1a	MX	N0
TCGA-55-7283	609	0	76	FEMALE	Stage IIIA	T3	MX	N2
TCGA-05-4244	0	0	70	MALE	Stage IV	T2	M1	N2
TCGA-91-6848	224	0	59	MALE	Stage IIIA	T2	MX	N2
TCGA-MP-A4TD	307	1	71	MALE	Stage IIIA	T2	M0	N2

TCGA-55-8620	375	1	60	MALE	Stage IV	T1a	M1b	N1
TCGA-97-7547	1965	0	67	FEMALE	Stage IB	T2	MX	N0
TCGA-44-6777	987	1	85	FEMALE	Stage IB	T2	MX	NX
TCGA-38-4629	864	1	68	MALE	Stage IIB	T3	M0	N0
TCGA-55-8097	476	0	60	FEMALE	Stage IA	T1a	MX	N0
TCGA-97-8179	435	0	72	MALE	Stage IA	T1a	M0	N0
TCGA-78-8648	1209	1	58	FEMALE	Stage IIB	T3	M0	N0
TCGA-75-5125	2027	1	unknow	MALE	Stage IIB	T2	M0	N1
TCGA-95-7944	377	0	71	MALE	Stage IA	T1a	M0	N0
TCGA-44-6147	845	0	67	FEMALE	Stage IA	T1b	M0	NX
TCGA-55-7727	119	0	70	MALE	Stage IIIA	T1a	MX	N2
TCGA-95-7039	1272	0	54	FEMALE	Stage IIB	T3	MX	N0
TCGA-55-6975	118	1	61	MALE	Stage IIB	T2	M0	N1
TCGA-05-4433	730	0	82	MALE	Stage IB	T2	M0	N0
TCGA-05-4427	791	0	65	FEMALE	Stage IIB	T2	M0	N1
TCGA-86-7711	1046	1	70	MALE	Stage IIA	T2a	M0	N1
TCGA-69-7761	186	0	84	MALE	Stage IB	T2a	MX	N0
TCGA-44-2661	1159	0	69	FEMALE	Stage IA	T1	M0	N0
TCGA-55-6981	1379	1	53	FEMALE	Stage IIIA	T1	M0	N2
TCGA-MP-A4TH	741	0	70	FEMALE	Stage IA	T1a	M0	N0
TCGA-55-8299	469	1	61	FEMALE	Stage IA	T1b	MX	N0
TCGA-L4-A4E6	435	0	67	MALE	Stage IA	T1	M0	N0
TCGA-44-A47F	337	0	74	MALE	Stage IIB	T2b	M0	N1
TCGA-55-7913	561	1	61	FEMALE	Stage IA	T1b	MX	N0
TCGA-38-4628	1492	1	65	FEMALE	Stage IIB	T2	M0	N1
TCGA-67-6215	174	0	52	FEMALE	Stage IB	T2a	M0	N0
TCGA-NJ-A7XG	617	0	49	MALE	Stage IIIA	T4	M0	N1
TCGA-67-3772	573	0	82	FEMALE	Stage IB	T2	M0	N0
TCGA-S2-AA1A	513	0	68	FEMALE	Stage IA	T1b	M0	N0
TCGA-49-6767	677	0	46	FEMALE	Stage IIB	T3	MX	N0
TCGA-55-6980	2109	0	56	MALE	Stage IA	T1	M0	N0
TCGA-44-6144	723	0	58	MALE	Stage IA	T1a	M0	N0
TCGA-44-5645	852	0	61	FEMALE	Stage IA	T1	unknow	NX
TCGA-MP-A4T7	167	1	75	FEMALE	Stage IV	T2	M1	N0
TCGA-62-A46V	2199	0	78	FEMALE	Stage IB	T2	M0	N0
TCGA-44-6774	658	0	56	FEMALE	Stage IIIA	T1	M0	N2
TCGA-55-8621	515	0	75	FEMALE	Stage IA	T1a	MX	N0
TCGA-05-4396	303	1	76	MALE	Stage IIIB	T4	M0	N1
TCGA-55-7573	487	0	72	FEMALE	Stage IA	T1b	MX	N0
TCGA-49-AARR	4992	0	68	MALE	Stage IA	T1	MX	N0
TCGA-97-A4M3	540	0	69	FEMALE	Stage IA	T1b	M0	N0
TCGA-49-AARO	3759	0	39	FEMALE	Stage IA	T1a	MX	N0
TCGA-91-6830	60	0	65	FEMALE	Stage IIA	T1	MX	N1
TCGA-38-6178	448	0	70	FEMALE	Stage IIIA	T2b	unknow	N2
TCGA-55-8091	600	0	74	MALE	Stage IB	T2	MX	N0
TCGA-55-8507	418	0	53	MALE	Stage IA	T1a	MX	N0
TCGA-75-7030		0	unknow	MALE	Stage IIB	T3	M0	N0
TCGA-86-A456	896	0	78	FEMALE	Stage IA	T1a	M0	N0
TCGA-55-A492	596	0	70	FEMALE	Stage IA	T1a	MX	N0

TCGA-64-1678	1189	0	70	FEMALE	unknow	T2b	M0	N0
TCGA-62-8399	2696	0	62	MALE	Stage IIIA	T2	M0	N2
TCGA-55-6985	1233	0	58	FEMALE	Stage IB	T2	MX	N0
TCGA-44-8120	260	0	58	MALE	Stage IB	T2a	M0	N0
TCGA-50-5935	653	1	86	FEMALE	Stage IA	T1	M0	N0
TCGA-50-5044	624	1	72	FEMALE	Stage IIIB	T4	M0	N1
TCGA-55-8085	904	0	64	MALE	Stage IA	T1b	M0	N0
TCGA-L9-A444	307	0	60	FEMALE	Stage IA	T1a	MX	N0
TCGA-55-8615	446	0	67	MALE	Stage IIIA	T3	MX	N2
TCGA-97-A4M0	652	0	60	FEMALE	Stage IB	T2a	M0	N0
TCGA-95-7562	87	1	71	MALE	Stage IIA	T2a	M0	N1
TCGA-38-4626	3674	0	57	FEMALE	unknow	T2b	M0	N0
TCGA-67-6216	141	0	57	FEMALE	Stage IA	T1a	M0	N0
TCGA-75-6203		0	unknow	FEMALE	Stage IIIA	T2	M0	N2
TCGA-67-3773	427	0	84	FEMALE	Stage IB	T2	M0	N0
TCGA-78-7161	291	1	69	FEMALE	Stage IIB	T3	M0	N0
TCGA-NJ-A4YQ	1432	0	69	FEMALE	Stage IA	T1b	M0	N0
TCGA-50-5072	250	1	74	MALE	Stage IIIA	T2	M0	N2
TCGA-50-5931	434	1	75	FEMALE	Stage IB	T2	M0	N0
TCGA-49-AARN	1135	1	56	FEMALE	Stage IA	T1	MX	N0
TCGA-64-1681	1167	1	61	FEMALE	Stage IA	T1	M0	N0
TCGA-99-7458	747	0	74	FEMALE	Stage IIIA	T4	M0	N0
TCGA-35-4122	225	0	69	MALE	Stage IA	T1	M0	N0
TCGA-55-7728	704	0	64	FEMALE	Stage IB	T2a	MX	N0
TCGA-44-7672	719	0	52	FEMALE	Stage IA	T1b	M0	N0
TCGA-44-7662	218	0	61	MALE	Stage IB	T2a	MX	N0
TCGA-86-7714	625	1	61	FEMALE	Stage IIIA	T1b	M0	N2
TCGA-97-7552	1932	0	70	MALE	Stage IB	T2	MX	N0
TCGA-44-5643	1013	0	53	MALE	Stage IIIA	T2b	M0	N2
TCGA-75-7025	3305	0	unknow	MALE	Stage IB	T2	M0	N0
TCGA-78-8655	2360	0	77	FEMALE	Stage IA	T1	M0	N0
TCGA-97-7937	564	0	65	MALE	Stage IB	T2a	MX	N0
TCGA-64-1679	2488	0	58	FEMALE	Stage IIIA	T1	M0	N2
TCGA-86-A4P8	805	0	59	FEMALE	Stage IIIA	T1b	MX	N2
TCGA-55-8205	599	0	76	FEMALE	Stage IIA	T2b	M0	N0
TCGA-44-2668	761	1	51	MALE	Stage IB	T2	M0	N0
TCGA-NJ-A4YP	50	0	52	MALE	Stage IB	T2a	M0	N0
TCGA-49-4494	1081	1	77	MALE	Stage IIIA	T3	M0	N2
TCGA-49-AAR9	260	1	61	MALE	Stage IIB	T3	MX	N0
TCGA-38-4625	2973	0	66	FEMALE	Stage IB	T2a	M0	N0
TCGA-44-7661	557	1	69	FEMALE	Stage IB	T2a	M0	N0
TCGA-55-7726	652	0	72	FEMALE	Stage IA	T1b	MX	N0
TCGA-75-6205		1	unknow	FEMALE	Stage IB	T2a	M0	N0
TCGA-55-6972	1632	1	72	MALE	Stage IB	T2	M0	N0
TCGA-86-8359	444	1	52	MALE	Stage IIIA	T3	M0	N2
TCGA-50-6673	22	1	84	FEMALE	Stage I	T1	M0	N0
TCGA-44-3917	1183	0	33	FEMALE	Stage IB	T2	M0	N0
TCGA-95-7567	568	0	61	MALE	Stage IIB	T2b	M0	N1
TCGA-97-8176	468	1	63	MALE	Stage IIIA	T3	M0	N1

TCGA-64-1677	628	1	77	FEMALE	Stage IIIA	T2	M0	N2
TCGA-50-5942	1847	0	67	FEMALE	Stage IA	T1	M0	N0
TCGA-38-4627	1147	1	64	FEMALE	Stage IIA	T1b	M0	N1
TCGA-86-8055	124	1	79	MALE	Stage IIA	T2a	M0	N1
TCGA-55-A4DF	440	1	88	MALE	Stage IA	T1b	MX	N0
TCGA-44-2664	1251	0	66	FEMALE	Stage IA	T1	M0	N0
TCGA-44-A47B	287	0	79	MALE	Stage IB	T2a	M0	N0
TCGA-62-A46R	1725	1	54	FEMALE	Stage IB	T2	M0	N0
TCGA-71-8520	210	1	60	FEMALE	Stage IB	T2	M0	N0
TCGA-80-5611	2595	0	unknow	MALE	Stage IB	T2	M0	N0
TCGA-05-4250	121	1	79	FEMALE	Stage IIIA	T3	M0	N1
TCGA-78-7158	179	1	59	FEMALE	Stage IIIB	T4	M0	N2
TCGA-53-7813	424	0	51	FEMALE	Stage IIIB	T4	M0	N0
TCGA-55-6970	464	1	67	FEMALE	Stage IIIA	T2	MX	N2
TCGA-73-A9RS	340	1	41	MALE	Stage IIB	T3	M0	N0
TCGA-69-7764	414	0	75	MALE	Stage IA	T1b	M0	N0
TCGA-55-8094	541	0	51	MALE	Stage IV	T2b	M1b	N0
TCGA-95-A4VN	553	0	62	FEMALE	Stage IIA	T2a	M0	N1
TCGA-69-8254	409	0	85	MALE	unknow	T2b	unknow	unknow
TCGA-49-AAR3	1893	0	69	MALE	Stage IIB	T2	MX	N1
TCGA-49-4510	896	1	51	FEMALE	Stage IIB	T2	M0	N1
TCGA-55-7281	872	0	70	FEMALE	Stage IA	T1b	M0	N0
TCGA-69-7763	690	0	69	MALE	Stage IA	T1b	M0	N0
TCGA-78-7148	626	1	71	MALE	Stage IIB	T2	M0	N1
TCGA-97-A4M7	629	0	74	MALE	Stage IA	T1b	M0	N0
TCGA-86-8668	423	0	61	FEMALE	Stage IA	T1b	M0	N0
TCGA-49-AAQV	677	1	63	FEMALE	Stage II	T1	MX	N1
TCGA-71-6725	256	0	48	FEMALE	Stage IB	T2	M0	N0
TCGA-55-7570	824	0	60	MALE	Stage IA	T1a	MX	N0
TCGA-05-4402	244	1	57	FEMALE	Stage IV	T2	M1	NX
TCGA-67-4679	448	0	69	MALE	unknow	T3	M0	N0
TCGA-05-4422	365	0	68	MALE	Stage IB	T2	M0	N0
TCGA-55-7227	952	1	77	MALE	Stage IIIA	T3	MX	N1
TCGA-55-1594	1178	0	68	MALE	Stage IIIA	T2	M0	N2
TCGA-49-AAR4	879	1	51	MALE	Stage IIIA	T2	MX	N2
TCGA-62-A46Y	414	1	70	FEMALE	Stage IIIA	T2	M0	N2
TCGA-86-8054	1148	0	61	MALE	Stage IIB	T2b	M0	N1
TCGA-62-A46S	1653	1	73	MALE	Stage IB	T2	M0	N0
TCGA-97-8177	499	0	59	FEMALE	Stage IB	T2a	M0	N0
TCGA-05-5425	882	0	68	MALE	Stage IIB	T2b	M0	N1
TCGA-49-6744	1683	0	64	FEMALE	Stage IIA	T2a	MX	N1
TCGA-44-6778	1864	0	59	MALE	Stage IA	T1	MX	N0
TCGA-75-6206	2590	0	unknow	MALE	Stage IB	T2	M0	N0
TCGA-80-5607		0	unknow	FEMALE	Stage IIB	T2	M0	N1
TCGA-NJ-A4YF	2161	0	50	FEMALE	Stage IA	T1	M0	N0
TCGA-78-7220	807	1	53	FEMALE	Stage IIIA	T2	M0	N2
TCGA-50-6595	189	1	74	FEMALE	Stage IIIA	T2	M0	N2
TCGA-78-7167	2681	1	77	MALE	Stage IV	T2	M1	N0
TCGA-95-7948	476	0	42	FEMALE	Stage IB	T2a	M0	N0

TCGA-75-6207		1	unknow	MALE	Stage IIIA	T2	M0	N2
TCGA-05-4389	1369	0	70	MALE	Stage IA	T1	M0	N0
TCGA-05-5429	275	1	60	MALE	Stage IIIA	T3	M0	N2
TCGA-55-7907	343	1	77	MALE	Stage IIA	T2a	MX	N1
TCGA-67-3776	61	0	57	FEMALE	Stage IIB	T2	M0	N1
TCGA-73-4677	38	1	74	MALE	unknow	T2a	M0	N0
TCGA-97-8172	545	0	75	FEMALE	Stage IB	T2a	M0	N0
TCGA-75-5147	1333	0	unknow	FEMALE	Stage IB	T2	M0	N0
TCGA-50-5045	2174	1	57	FEMALE	unknow	T2	M0	N1
TCGA-44-A4SU	409	1	67	FEMALE	Stage IA	T1a	MX	N0
TCGA-55-8301	534	0	58	MALE	Stage IB	T2a	MX	N0
TCGA-55-1596	2065	0	55	MALE	Stage IIB	T2	M0	N1
TCGA-55-A4DG	608	0	71	MALE	Stage IA	T1b	MX	N0
TCGA-49-AARE	1229	1	51	FEMALE	Stage IA	T1	MX	N0
TCGA-50-6592	777	1	71	FEMALE	Stage IB	T2	M0	N0
TCGA-J2-A4AG	988	0	66	FEMALE	Stage IA	T1b	MX	N0
TCGA-67-3771	610	0	77	FEMALE	Stage IA	T1	M0	N0
TCGA-73-4662	2515	0	65	FEMALE	Stage IA	T1	M0	N0
TCGA-05-5420	457	0	67	MALE	Stage IIIA	T2	M0	N2
TCGA-86-8056	139	0	63	FEMALE	Stage IIIA	T4	M0	N0
TCGA-J2-A4AE	1079	0	77	FEMALE	Stage IA	T1a	MX	N0
TCGA-44-7669	574	1	59	MALE	Stage IIA	T1b	MX	N1
TCGA-44-8119	285	0	73	MALE	Stage IIB	T3	M0	N0
TCGA-50-5941	1474	0	55	FEMALE	Stage IIIA	T2a	M0	N2
TCGA-64-5781	1559	0	55	FEMALE	Stage IB	T2	M0	N0
TCGA-73-4666	800	0	52	FEMALE	Stage IV	T1	M1	N0
TCGA-L9-A8F4	476	0	64	FEMALE	Stage IB	T2a	MX	N0
TCGA-69-8253	426	0	59	FEMALE	Stage IIA	T1a	MX	N1
TCGA-97-8552	626	0	55	FEMALE	Stage I	T1a	MX	N0
TCGA-44-6776	2616	0	60	FEMALE	Stage IA	T1	MX	N0
TCGA-L9-A5IP	58	1	40	FEMALE	Stage IV	T3	M1b	N2
TCGA-44-6148	704	0	60	MALE	Stage IA	T1b	M0	N0
TCGA-38-4630	1073	1	75	FEMALE	Stage IB	T2	M0	N0
TCGA-95-7947	477	0	67	MALE	Stage IA	T1a	M0	N0
TCGA-4B-A93V	300	1	52	FEMALE	Stage IA	T1b	M0	N0
TCGA-86-8076	993	0	42	MALE	Stage IA	T1	M0	N0
TCGA-05-4410	0	0	62	MALE	Stage IB	T2	M0	N0
TCGA-62-A472	910	0	70	MALE	Stage IIB	T3	M0	N0
TCGA-55-6968	1293	1	61	MALE	Stage IV	T1	M1	N0
TCGA-55-8514	520	0	70	FEMALE	Stage IB	T2a	MX	N0
TCGA-75-7031		0	unknow	FEMALE	Stage IB	T2	M0	N0
TCGA-62-8397	1289	0	70	FEMALE	Stage IIB	T3	M0	N0
TCGA-86-7953	997	0	69	FEMALE	Stage IA	T1b	M0	N0
TCGA-75-5146	2368	0	unknow	MALE	Stage IB	T2	M0	N0
TCGA-44-A47G	351	0	73	FEMALE	Stage IA	T1	M0	N0
TCGA-86-8671	839	0	72	FEMALE	Stage IIB	T2b	M0	N1
TCGA-86-8358	653	0	44	MALE	Stage IB	T2a	M0	N0
TCGA-93-A4JN	718	0	71	MALE	Stage IV	T2a	M1a	N0
TCGA-05-4432	761	0	66	MALE	Stage IIB	T2	M0	N1

TCGA-86-8669	938	0	64	MALE	Stage IA	T1b	M0	N0
TCGA-95-A4VK	651	0	74	FEMALE	Stage IIIA	T2b	M0	N2
TCGA-44-7670	882	0	47	FEMALE	Stage IIA	T1b	M0	N1
TCGA-73-7499	1531	1	81	FEMALE	Stage IB	T2a	M0	N0
TCGA-62-A46U	2067	0	71	FEMALE	Stage IIB	T2	M0	N1
TCGA-55-8508	617	0	60	FEMALE	Stage IIA	T2a	MX	N1
TCGA-44-2657	1351	0	74	FEMALE	Stage IB	T2	M0	NX
TCGA-97-8171	568	0	81	MALE	Stage IV	T2a	M1a	N2
TCGA-50-5944	1750	0	69	FEMALE	Stage IA	T1	M0	N0
TCGA-78-7633	1528	1	67	MALE	Stage IB	T2	M0	N0
TCGA-64-5775	62	1	71	MALE	Stage IIIA	T4	M0	N0
TCGA-J2-8194	724	0	69	FEMALE	Stage IIB	T3	MX	N0
TCGA-78-7539	791	0	75	FEMALE	Stage IIA	T2b	M0	N0
TCGA-91-6829	1258	1	78	MALE	Stage IB	T2	MX	N0
TCGA-99-8028	1118	0	50	FEMALE	Stage IA	T1a	M0	N0
TCGA-78-7153	3635	0	65	FEMALE	Stage IB	T2	M0	N0
TCGA-L9-A50W	442	1	75	MALE	Stage IIA	T1b	MX	N1
TCGA-50-6594	370	1	79	FEMALE	Stage IIIA	T3	M0	N2
TCGA-50-5936	257	1	58	MALE	Stage IIIA	T2	M0	N2
TCGA-05-5428	670	0	57	MALE	Stage IIA	T1b	M0	N1
TCGA-55-5899	930	0	58	MALE	unknow	T1a	M0	N1
TCGA-44-7659	691	0	70	MALE	Stage IA	T1b	MX	N0
TCGA-55-7816	468	1	49	FEMALE	Stage IV	TX	MX	NX
TCGA-05-4425	669	0	70	FEMALE	Stage IV	T2	M1	N0
TCGA-44-2665	1301	0	55	FEMALE	Stage IIB	T2	M0	N1
TCGA-05-4424	913	0	70	MALE	Stage IIB	T3	M0	N0
TCGA-78-7156	976	1	62	MALE	Stage IV	T4	M1	N1
TCGA-49-4512	905	1	69	FEMALE	Stage IIIA	T2	MX	N2
TCGA-78-7536	244	1	69	MALE	Stage IIIA	T2	M0	N2
TCGA-97-8175	551	0	55	FEMALE	Stage IB	T2a	M0	N0
TCGA-49-4501	1421	1	67	FEMALE	Stage IB	T2	M0	N0
TCGA-53-7626	929	1	76	FEMALE	Stage IIA	T1	M0	N1
TCGA-55-6984	760	1	71	FEMALE	Stage IIB	T2	M0	N1
TCGA-44-2659	1367	0	65	FEMALE	Stage IIB	T1	M0	N1
TCGA-MP-A4SW	1778	1	53	MALE	Stage IIB	T2	M0	N1
TCGA-55-A48X	689	0	63	FEMALE	Stage IIA	T1b	M0	N1
TCGA-55-1592	701	1	65	MALE	Stage IA	T2	M0	N0
TCGA-86-8673	862	0	61	MALE	Stage IB	T2	M0	N0
TCGA-35-4123	182	0	38	MALE	Stage IA	T1	M0	N0
TCGA-78-8640	7062	0	59	MALE	Stage IIA	T1	M0	N1
TCGA-75-7027	3059	0	unknow	MALE	Stage IB	T2	M0	N0
TCGA-99-8032	44	0	61	MALE	Stage IA	T1a	M0	N0
TCGA-49-6761	354	0	68	FEMALE	Stage IIIA	T1	MX	N2
TCGA-MP-A4SY	1501	1	61	MALE	Stage IIB	T2	M0	N1
TCGA-55-A490	99	1	78	MALE	Stage IIA	T2b	MX	N0
TCGA-93-7348	531	0	75	FEMALE	Stage IA	T1a	MX	N0
TCGA-49-AAR0	4765	0	57	MALE	Stage IA	T1	MX	N0
TCGA-93-A4JP	578	0	64	MALE	Stage IV	TX	M1b	NX
TCGA-55-6979	237	1	59	FEMALE	Stage IIB	T2	M0	N1

TCGA-73-7498	1189	0	58	FEMALE	Stage IA	T1b	M0	N0
TCGA-MP-A4T8	161	1	68	MALE	Stage IIIA	T2	M0	N2
TCGA-50-6590	1288	1	72	FEMALE	Stage IB	T2	M0	N0
TCGA-64-5815	866	0	74	MALE	Stage IIB	T2	M0	N1
TCGA-78-7540	1197	1	66	FEMALE	Stage IB	T2	M0	N0
TCGA-55-8510	539	0	55	FEMALE	Stage IB	T2a	MX	N0
TCGA-44-7671	889	0	64	MALE	Stage IB	T2a	M0	N0
TCGA-91-8496	505	0	63	FEMALE	Stage IB	T2a	MX	NX
TCGA-55-8089	702	1	56	MALE	Stage IA	T1a	M0	N0
TCGA-99-AA5R	658	0	70	FEMALE	Stage IA	T1a	M0	N0
TCGA-55-8505	440	0	62	MALE	Stage IIIA	T1a	MX	N2
TCGA-05-5423	151	0	65	MALE	Stage IIB	T2	M0	N1
TCGA-55-8614	536	0	76	MALE	Stage IB	T2a	MX	N0
TCGA-50-5946	1617	0	62	MALE	Stage IA	T1	MX	N0
TCGA-05-4245	730	0	81	MALE	Stage IIIA	T2	M0	N2
TCGA-91-A4BD	603	0	78	MALE	Stage IIA	T1b	MX	N1
TCGA-55-8512	607	1	41	MALE	Stage IV	T1a	M1b	N1
TCGA-NJ-A55A	15	0	76	FEMALE	Stage IB	T2	M0	N0
TCGA-05-4434	457	1	67	FEMALE	Stage IV	T4	M1	N1
TCGA-97-A4M6	568	0	45	FEMALE	Stage IA	T1a	M0	N0
TCGA-86-7954	605	0	68	FEMALE	Stage IB	T2	M0	N0
TCGA-78-7150	666	1	59	MALE	Stage IIB	T2	M0	N1
TCGA-62-A470	1194	1	84	MALE	Stage IB	T2	M0	N0
TCGA-69-8255	129	0	71	MALE	Stage IA	T1a	M0	N0
TCGA-55-8208	674	0	73	FEMALE	Stage IA	T1b	M0	N0
TCGA-50-5051	478	1	42	FEMALE	Stage IIIA	T2	M0	N2
TCGA-55-7910	1040	0	50	FEMALE	Stage IIA	T2b	M0	N0
TCGA-38-7271	800	1	72	FEMALE	Stage IA	T1	M0	N0
TCGA-86-8585	353	0	57	MALE	Stage IB	T2a	M0	N0
TCGA-86-8075	694	1	66	FEMALE	Stage IB	T2	M0	N0
TCGA-73-4676	281	1	45	MALE	Stage IIA	T2a	M0	N1
TCGA-50-5933	2393	1	72	MALE	Stage IIIB	T4	M0	N2
TCGA-73-4675	922	1	59	MALE	Stage IIIA	T3	M0	N1
TCGA-55-6987	2137	0	77	MALE	Stage IA	T1	M0	N0
TCGA-50-5055	1830	1	79	FEMALE	Stage IIA	T1	M0	N1
TCGA-MN-A4N5	84	0	63	MALE	Stage IA	T1a	M0	N0
TCGA-38-A44F	133	0	80	MALE	Stage IB	T2a	M0	N0
TCGA-55-6971	1400	0	59	FEMALE	Stage IB	T2	MX	N0
TCGA-69-7974	184	0	54	FEMALE	Stage IIIA	T2a	MX	N2
TCGA-44-6779	500	1	50	FEMALE	Stage IIB	T2	MX	N1
TCGA-MP-A4TC	74	1	77	MALE	Stage IIIA	T1	M0	N2
TCGA-55-8302	478	0	54	MALE	Stage IB	T2	MX	N0
TCGA-67-3774	385	0	73	FEMALE	Stage IB	T2	M0	N0
TCGA-55-A493	28	0	54	FEMALE	Stage IB	T2a	M0	N0
TCGA-50-7109	308	1	60	MALE	Stage IA	T1	M0	N0
TCGA-55-6982	995	1	79	FEMALE	Stage IIB	T2	M0	N1
TCGA-86-8074	24	0	62	FEMALE	Stage IIA	T1b	M0	N1
TCGA-69-A59K	591	0	60	FEMALE	Stage IIB	T3	M0	N0
TCGA-55-8090	598	1	80	MALE	Stage IA	T1a	M0	N0

TCGA-97-A4M2	624	0	66	MALE	Stage IA	T1a	M0	N0
TCGA-MP-A4T9	1265	1	54	FEMALE	Stage IIIA	T2	MX	N2
TCGA-MP-A4TK	582	1	56	FEMALE	Stage IIB	T2	MX	N1
TCGA-91-6849	35	0	75	FEMALE	Stage IIIA	T2	MX	N2
TCGA-50-6593	336	1	49	FEMALE	Stage IIIA	T1	M0	N2
TCGA-95-7043	503	1	63	FEMALE	Stage IA	T1a	MX	N0
TCGA-55-7724	705	0	76	FEMALE	Stage IB	T2a	MX	N0
TCGA-53-A4EZ	1071	0	63	MALE	Stage IIA	T2a	MX	N1
TCGA-44-7667	1097	0	49	FEMALE	Stage IIB	T3	MX	N0
TCGA-44-8117	385	0	54	FEMALE	Stage IB	T2a	M0	N0
TCGA-55-6983	2823	0	81	MALE	Stage IIB	T2	M0	N1
TCGA-44-6146	728	0	64	MALE	Stage IIB	T3	M0	N0
TCGA-55-8513	791	0	77	FEMALE	Stage IIB	T3	MX	N0
TCGA-MP-A5C7	2248	0	76	FEMALE	Stage IB	T2	M0	N0
TCGA-75-6214	1115	1	unknow	FEMALE	Stage IIIA	T2	M0	N2
TCGA-86-7713	1157	0	70	MALE	Stage IIA	T2b	M0	N0
TCGA-75-6212	1516	1	unknow	FEMALE	Stage IIB	T2	M0	N1
TCGA-62-8394	139	1	65	FEMALE	Stage IIIB	T4	M0	N2
TCGA-64-5778	1305	0	60	MALE	Stage IB	T2	M0	N0
TCGA-97-8174	164	1	67	MALE	Stage IIA	T2b	M0	N0
TCGA-50-8459	1119	0	68	MALE	Stage IIB	T3	M0	N0
TCGA-50-8457	1125	0	63	FEMALE	Stage IA	T1a	M0	N0
TCGA-97-A4M1	601	0	52	FEMALE	Stage IA	T1a	M0	N0
TCGA-78-7166	258	1	84	MALE	Stage IIB	T2	M0	N1
TCGA-83-5908	824	0	59	FEMALE	Stage IA	T1	M0	N0
TCGA-05-4426	791	0	71	MALE	Stage IB	T2	M0	N0
TCGA-55-7995	889	0	73	FEMALE	Stage IA	T1b	M0	N0
TCGA-93-8067	186	0	77	MALE	Stage IB	T2a	MX	N0
TCGA-55-7284	243	1	74	MALE	Stage IIB	T3	MX	N0
TCGA-55-1595	1479	0	74	FEMALE	Stage IA	T1	M0	N0
TCGA-44-2655	1324	0	65	FEMALE	Stage IA	T1	M0	N0
TCGA-69-8453	813	0	77	MALE	Stage IIB	T3	MX	N0
TCGA-91-6835	79	0	81	FEMALE	Stage IA	T1	M0	N0
TCGA-95-8039	830	0	72	MALE	Stage IA	T1	MX	N0
TCGA-97-7938	18	1	76	FEMALE	Stage IA	T1a	MX	N0
TCGA-69-7978	134	0	59	MALE	Stage IIB	T2b	MX	N1
TCGA-55-7994	603	0	81	MALE	Stage IIB	T3	MX	N0
TCGA-55-8619	416	0	72	FEMALE	Stage IIB	T3	MX	N0
TCGA-78-7149	3940	0	71	MALE	Stage IIIB	T4	M0	N0
TCGA-38-4631	354	1	72	FEMALE	Stage IB	T2	M0	N0
TCGA-44-2662	1280	0	65	MALE	Stage IB	T2	M0	N0
TCGA-MP-A4SV	2620	1	67	MALE	Stage IB	T2	M0	N0
TCGA-L9-A7SV	565	0	69	MALE	Stage IIA	T2a	M0	N1
TCGA-93-A4JQ	526	0	49	MALE	Stage IA	T1b	MX	N0
TCGA-35-3615	14	0	57	MALE	Stage IB	T2	M0	N0
TCGA-05-4418	274	1	69	MALE	Stage IIIA	T3	M0	N2
TCGA-05-4249	1523	0	67	MALE	Stage IB	T2	M0	N0
TCGA-MN-A4N4	1175	0	57	MALE	Stage IA	T1b	M0	N0
TCGA-73-4658	1600	1	80	FEMALE	Stage IB	T2	M0	N0

TCGA-44-A4SS	415	0	73	MALE	Stage IA	T1b	M0	N0
TCGA-95-A4VP	605	0	66	FEMALE	Stage IIIA	T2b	M0	N2
TCGA-55-7914	187	1	71	FEMALE	Stage IIA	T1b	MX	N1
TCGA-78-7145	826	1	52	FEMALE	Stage IV	T4	M1	N1
TCGA-55-8092	154	1	75	MALE	Stage IIB	T3	MX	N0
TCGA-MP-A4TE	896	1	56	MALE	Stage IIA	T2b	MX	N0
TCGA-MP-A4T4	2617	1	68	FEMALE	Stage IIB	T2	M0	N1
TCGA-55-8203	547	0	69	FEMALE	Stage IA	T1b	M0	N0
TCGA-55-6712	171	1	71	MALE	Stage IIA	T2a	MX	N1
TCGA-49-6743	1621	0	81	FEMALE	Stage IIIA	T1	MX	N2
TCGA-73-4668	467	0	66	FEMALE	Stage IIB	T2	M0	N1
TCGA-67-3770	610	0	70	FEMALE	Stage IA	T1	M0	N0
TCGA-64-1680	1126	0	63	MALE	Stage IV	T2a	M1	N2
TCGA-05-4398	1431	0	47	FEMALE	Stage IIIB	T4	M0	N3
TCGA-78-7155	1171	1	68	MALE	Stage IB	T2	M0	N0
TCGA-78-7152	1215	1	65	MALE	Stage IB	T2	M0	N0
TCGA-75-6211		1	unknow	FEMALE	Stage IB	T2	M0	N0
TCGA-MP-A4T6	1790	1	76	FEMALE	Stage IIIA	T1	MX	N2
TCGA-55-A57B	546	0	80	FEMALE	Stage IA	T1b	M0	N0
TCGA-44-2656	1429	0	59	MALE	Stage IB	T2	M0	N0
TCGA-93-A4JO	33	1	70	MALE	Stage IA	T1a	MX	N0
TCGA-78-7535	949	1	45	MALE	Stage IB	T2	M0	N0
TCGA-62-8398	444	1	55	MALE	Stage IIIA	T2	M0	N2
TCGA-91-6840	372	0	59	FEMALE	Stage IA	T1b	M0	N0
TCGA-75-5122		1	unknow	MALE	Stage IB	T2	M0	N0
TCGA-99-8025	1060	0	72	FEMALE	Stage IIIA	T3	M0	N2
TCGA-55-8207	977	0	73	MALE	Stage IB	T2a	MX	N0
TCGA-55-6969	1239	0	52	MALE	Stage IB	T2	M0	N0
TCGA-64-5774	2676	0	60	MALE	Stage IB	T2	M0	N0
TCGA-O1-A52J	1798	1	74	FEMALE	Stage IA	T1	MX	N0
TCGA-86-6851	179	0	73	FEMALE	Stage IIA	T1b	M0	N1
TCGA-62-8395	1216	0	80	FEMALE	Stage IIB	T3	M0	N0
TCGA-86-A4P7	415	0	63	FEMALE	Stage IB	T2a	M0	N0
TCGA-91-6831	310	0	66	MALE	Stage IB	T2	MX	N0
TCGA-05-4420	912	0	41	MALE	Stage IB	T2	M0	N0
TCGA-05-4395	0	1	76	MALE	Stage IIIB	T4	M0	N2
TCGA-67-6217	422	0	73	FEMALE	Stage IIA	T2a	M0	N1
TCGA-44-4112	808	1	60	FEMALE	Stage IB	T2a	M0	N0
TCGA-49-AAR2	2224	0	64	MALE	Stage IB	T2	MX	N0
TCGA-62-A46O	1454	1	65	FEMALE	Stage IB	T2	M0	N0
TCGA-44-7660	592	0	72	MALE	Stage IB	T2	MX	N0
TCGA-44-3919	1026	1	71	FEMALE	Stage IA	T1	M0	N0
TCGA-44-6775	705	0	72	FEMALE	Stage IB	T2a	MX	N0
TCGA-97-7554	775	0	83	FEMALE	Stage IIIA	T2a	M0	N2
TCGA-86-6562	376	1	52	MALE	Stage IIA	T2a	M0	N1
TCGA-55-6642	2449	0	63	MALE	Stage IB	T2	MX	N0
TCGA-62-A471	1246	0	64	MALE	Stage IIB	T2b	M0	N1
TCGA-05-5715	62	0	69	FEMALE	Stage IB	T2a	M0	N0

Table S4. The gene set enrichment analysis between the high-
and low-risk subgroups

ID	setSize	enrichmentScore	NES	pvalue	p.adjust	qvalues	rank
#1	108	-0.78347	-1.94129	1.00E-10	1.83E-08	1.61E-08	2117
#2	36	-0.82145	-1.86182	1.48E-06	0.000135	0.000119	2602
#3	177	0.447522	1.74263	1.14E-05	0.000696	0.000613	1920
#4	29	-0.81464	-1.81128	2.94E-05	0.001154	0.001015	1887
#5	30	-0.80439	-1.80192	3.69E-05	0.001154	0.001015	2709
#6	99	-0.65877	-1.62257	3.78E-05	0.001154	0.001015	3031
#7	20	-0.83547	-1.77066	8.01E-05	0.002094	0.001842	2594
#8	23	0.773562	2.178365	0.000183	0.004187	0.003685	1396
#9	72	-0.65598	-1.58529	0.000598	0.012162	0.010703	3027
#10	71	0.540156	1.864178	0.001092	0.019978	0.017582	1840
#11	164	-0.56256	-1.41309	0.001811	0.027615	0.024303	3027
#12	35	-0.71845	-1.62488	0.001884	0.027615	0.024303	2709
#13	57	-0.6646	-1.59091	0.001962	0.027615	0.024303	3431
#14	31	-0.73701	-1.65933	0.002873	0.037555	0.033051	2709
#15	113	-0.58248	-1.44813	0.003225	0.039339	0.034621	2709
#16	30	-0.72247	-1.61841	0.004	0.045748	0.040261	2709
#17	98	-0.5811	-1.42895	0.006952	0.074836	0.065861	3027
#18	58	-0.61572	-1.47027	0.009152	0.092892	0.081752	3307
#19	67	-0.60473	-1.45947	0.009645	0.092892	0.081752	3344
#20	71	-0.59293	-1.43486	0.010385	0.095024	0.083627	2786
#21	111	0.396354	1.433297	0.011518	0.097331	0.085658	2571
#22	44	0.541685	1.738763	0.011701	0.097331	0.085658	2793
#23	28	0.589287	1.768519	0.015211	0.118001	0.103849	276
#24	28	0.585709	1.757781	0.015476	0.118001	0.103849	652
#25	83	-0.56495	-1.38175	0.02355	0.169521	0.14919	3951
#26	26	0.577483	1.717124	0.024085	0.169521	0.14919	2722
#27	21	-0.68579	-1.46051	0.035672	0.241776	0.212779	919
#28	12	-0.75192	-1.44868	0.043194	0.271988	0.239368	3177
#29	193	-0.4933	-1.24244	0.04431	0.271988	0.239368	2998
#30	41	0.47476	1.492806	0.044588	0.271988	0.239368	1526

ID	Name
#1	KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS
#2	KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION
#3	KEGG_FOCAL_ADHESION
#4	KEGG_PRIMARY_IMMUNODEFICIENCY
#5	KEGG_ALLOGRAFT_REJECTION
#6	KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY
#7	KEGG_ASTHMA
#8	KEGG_PENTOSE_PHOSPHATE_PATHWAY
#9	KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY
#10	KEGG_ECM_RECEPTOR_INTERACTION
#11	KEGG_CHEMOKINE_SIGNALING_PATHWAY
#12	KEGG_TYPE_I_DIABETES_MELLITUS
#13	KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION

#14	KEGG_GRAFT_VERSUS_HOST_DISEASE
#15	KEGG_CELL_ADHESION_MOLECULES_CAMS
#16	KEGG_AUTOIMMUNE_THYROID_DISEASE
#17	KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY
#18	KEGG_VIRAL_MYOCARDITIS
#19	KEGG_LEISHMANIA_INFECTION
#20	KEGG_HEMATOPOIETIC_CELL_LINEAGE
#21	KEGG_AXON_GUIDANCE
#22	KEGG_GLUTATHIONE_METABOLISM
#23	KEGG_RETINOL_METABOLISM
#24	KEGG_DRUG_METABOLISM_OTHER_ENZYMES
#25	KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY
#26	KEGG_BUTANOATE_METABOLISM
#27	KEGG_OLFACTORY_TRANSDUCTION
#28	KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS
#29	KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION
#30	KEGG_DRUG_METABOLISM_CYTOCHROME_P450

Table S5. The differential genes between the high- and low-risk subgroups

genes	logFC
LRRC38	5.77209
ITLN1	5.093469
CGB5	5.0637
SPINK4	5.018862
WFDC5	4.863646
MSTN	4.85163
REG4	3.462981
TKTL1	3.317839
BHMT	3.201467
PCSK2	2.601331
WFDC12	2.596349
CASP14	2.544977
CYP2A6	2.437882
FABP7	2.207876
TM4SF20	2.204879
PRG4	2.129739
KRT20	2.108255
MYBPC1	2.027449
RHCG	1.969365
PI3	1.925202
SPANXB1	1.914373
MAGEB2	1.873272
KRT75	1.83063
BPIFB4	1.819879
C8A	1.790626
NNAT	1.776173

MUCL1	1.730919
MUCL3	1.728357
CGA	1.722207
PNMA5	1.695974
LINC00922	1.695028
IL11	1.691951
COL2A1	1.66523
GUCA2B	1.648576
ALPP	1.638716
KRT81	1.622893
PICSAR	1.616223
GCG	1.610601
RNA5-8SP4	1.610593
RNA5-8SP2	1.607272
BMX	1.58001
IBSP	1.572115
MAEL	1.563401
MAGEA4	1.53959
UPK1B	1.519657
LINC00941	1.507221
L1CAM	1.492518
IGF2BP1	1.466408
FLNC	1.460028
AL355916.1	1.459204
LYPD2	1.454452
GAGE2A	1.45111
SFRP1	1.444445
FBN2	1.432985
MFAP5	1.430841
PRR20G	1.410451
NTSR1	1.405714
IL1A	1.40561
AC003092.1	1.40216
AL161431.1	1.394849
PTPRR	1.384654
CD177	1.384526
UGT1A10	1.358814
MT1A	1.35077
ARL14	1.317029
AC026785.3	1.311899
WNT7A	1.305529
AC245041.1	1.276577
MAGEA10	1.265337
HMGA2	1.263004
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GCA1	0.192918
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SAMD11	0.188616
SPR	0.188586
C16orf89	0.188577
FOXC1	0.188492
FGFBP1	0.18844
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OSBP2	0.188308
CCDC85C	0.188232
SRD5A3	0.188058

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UNC5B	0.187524
AP1S3	0.187512
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PDGFC	0.186613
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GPAT2	0.181148
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PTGS1	0.16785
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TRAF7	0.153673
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NME2	0.14723
ELK3	0.146982
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THOC3	0.146899
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CYP2D6	0.146125
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PGM2L1	0.145573
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MAGED1	0.143946
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ZNF503	0.143723
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NADK2	0.143355
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YAP1	0.141366
SH3GL1	0.141235
H1-0	0.141207
STIL	0.141175
APLP2	0.141126
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RPL13AP5	0.109809
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WDR43	0.109801
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SH3YL1	0.109719
AL355802.3	0.109711
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UBQLN4	0.109424
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WIP1	0.109236
AKIRIN1	0.109185
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CTDSPL	0.109093
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CGN	0.108969
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SHC3	0.108582
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CDK14	0.107604
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CTF1	0.107428
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JCAD	0.107338
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GCNT2	0.107156
VASP	0.107133
CD36	0.107114
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COPS2	0.107035
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CENPA	0.106852
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CENPO	0.106685
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MANBAL	0.106582
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DHX33	0.106561
GART	0.106521
FAM3C2P	0.106512
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DROSHA	0.10616
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GAPLINC	0.105073
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CAMK2G	0.10344
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MAP3K14-AS1	0.103111
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BGN	0.087436
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DDA1	0.086294
GFER	0.08625
EDC3	0.086241
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WASF2	0.086117
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ANKMY2	0.085511
FBXO22	0.085501

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FBXW8	0.085379
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AL353150.1	0.085316
AK1	0.085259
PHETA2	0.085254
AC106028.3	0.085251
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ACTL6A	0.085222
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ILK	0.085085
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FIBIN	0.084885
DAP3	0.084858
AC005255.1	0.084826
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KPNA6	0.084807
IVD	0.08478
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UBE2G1	0.084671
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TMED7	0.084628
AL035446.1	0.084591
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GALE	0.084503
EVPL	0.084479
SLC35E1	0.084469
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RUVBL1	0.084383
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ABCF3	0.084207
MORF4L1	0.084194

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CISD3	0.083669
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MAPK13	0.083212
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DYNLL2	0.083068
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AC092687.3	0.082973
CARNMT1	0.082962
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ZNF415	0.082917
MICALL2	0.082889
VDAC1	0.082831
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ZNF362	0.082069
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AC089983.1	0.081988
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MPZL1	0.081874
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PDCD11	0.081593
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DANCR	0.079035
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GCSH	0.078996
SMPD4	0.078995
NACC1	0.078993
SENP8	0.078992
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SULT1A1	0.078931
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MEGF8	0.078683
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SNAP47	0.07863
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GPS1	0.078477
GBF1	0.078461
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SETD7	0.077601
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OGDH	0.077522
PLTP	0.077463

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TKFC	0.077139
RPL4	0.077139
SLC6A9	0.077069
BICDL2	0.07705
CAMSAP3	0.07703
DOLPP1	0.077028
SBNO2	0.076995
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CUTA	0.076773
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PSMB4	0.076607
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COX10	0.076544
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IRAK2	0.076291
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TAF1A	0.076192
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CBX8	0.076107
C15orf62	0.07609
MRTO4	0.076089
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BMT2	0.076049

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IQSEC2	0.075974
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AC022509.3	0.075928
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ACVR1	0.07587
TM2D1	0.075853
TARBP2	0.075825
ACTR3B	0.075816
SEC13	0.075759
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ELFN2	0.07573
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SAMM50	0.075694
INHBB	0.075687
PLD3	0.075659
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KCNMB2-AS1	0.075456
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LDLR	0.075429
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TCEAL9	0.075286
UBE4B	0.075252
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IER5	0.075173
EEF1GP1	0.075171
ANAPC13	0.075168
NDUFB2	0.075154
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CECR2	0.075084
AC007849.1	0.07507
ZNF384	0.07507
NCAM2	0.075061
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ECI2	0.074813
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KPNA1	0.073963
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MYH9	0.073435
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CSNK2B	0.073401
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GLT1D1	0.07323
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AC091849.1	0.072888
RPL13AP25	0.072869
ZFP64	0.072831
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DGCR6L	0.072737
TMEM44	0.072708
EXOC3	0.072704
AC008966.1	0.072696
ZNF628	0.072658
RETSAT	0.072646
EXOC1	0.072641
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PCNX3	0.072577
VTCN1	0.072576
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METTL9	0.072544
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SMARCA1	0.07195
CHMP1B	0.071926
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FRG1BP	0.071768
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TRMT10C	0.07173
RHOBTB3	0.071728
TJP3	0.071713
PGAP2	0.071712
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PACSIN2	0.071657
CTNND1	0.071613
HARS2	0.071562
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FKBP7	0.07155
QARS1	0.071543
PMM1	0.071451

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GLRX2	0.071179
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GEMIN5	0.070929
MXI1	0.070914
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SNX7	0.070696
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SNF8	0.070425
HSPA9	0.070324
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NSUN5	0.070229
PDIA3P1	0.070221
TWF1	0.070127

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PRAG1	0.069518
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CARHSP1	0.069436
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TTC27	0.069148
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MYH14	0.069074
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CHMP2B	0.068953

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FADS3	0.068775
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RACGAP1	0.068584
RAI14	0.068565
DNASE1L1	0.068538
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TXNDC12	0.068419
MRPL51	0.068345
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SKP1	0.06827
LIPG	0.068269
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LINC01006	0.068239
SPIN1	0.068226
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PCBP4	0.068069
SYMPK	0.068061
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CDK16	0.068033
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VAT1	0.067939
ZDHHHC12	0.067934
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BCL6B	0.067675
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S1PR3	0.067633
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MYBL1	0.067523
MAN1B1	0.067516
SCAMP2	0.067478
MANSC1	0.067466
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UXS1	0.067413
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GNB5	0.067286
MARCHF6	0.067282
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ARF1	0.067128
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MCAT	0.067011
STAM	0.066942
BRI3P1	0.066925
TM9SF3	0.06691
AC026271.1	0.066909
SET	0.06689
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TNFSF10	0.066838
ABCC10	0.066815
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JAG2	0.066725
OGFOD1	0.066725
CATSPER1	0.066618
EML1	0.066542
KLHL20	0.066482
IGSF3	0.066438
INPP5A	0.066415

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BUD23	0.048766
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GNPDA2	0.048749
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COX19	0.048612
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LDLRAP1	0.046918
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MICB	0.044142
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COG5	0.042532
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FLOT1	0.042351
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ANXA11	0.042151
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COX17P1	0.042137
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MAFG-DT	0.04195
SGMS1-AS1	0.041926
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EIF2B3	0.041836
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SPPL3	0.04065
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TAF9	0.039694
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PARG	0.039676
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GANAB	0.039508
ACO1	0.039428
TFAP2C	0.039425
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WDR41	0.03939
UNC5B-AS1	0.039389
TIPRL	0.039381
CMTM3	0.039362
GJA1	0.039361
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BAP1	0.039324
C3orf33	0.039289
PRKAG1	0.039283
PRELID3B	0.039278
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TAF8	0.039206
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TBX3	0.039162
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C16orf91	0.039104
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NFE2L1	0.03906
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DHX30	0.038996
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CNOT8	0.038967
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GLTP	0.038686
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VPS50	0.038556
NIP7	0.038535
NDUFA6	0.038516
NAA35	0.038512
YIPF2	0.038509
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ZNF777	0.038452
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PLCE1	0.03832
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COX20	0.038251
PPP2R3A	0.038186
MTFR2	0.038174
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SPTAN1	0.037883
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MED9	0.037797
MOGS	0.037766
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PRPS2	0.037702
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SP1	0.037561
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STN1	0.037498
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REEP5	0.037314
MAIP1	0.037281
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GPX7	0.037236
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UBE2E1	0.037131
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TP53BP2	0.037105
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BUD13	0.036912
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DNAJC30	0.036862
SORCS2	0.036824
CHADL	0.036805
UBE2D4	0.036798
NCBP2	0.036784
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ABL2	0.036365
CCDC47	0.036344
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VWA8	0.03604
TMEM163	0.036031
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SLC12A4	0.035992
CREB3	0.035967
REEP1	0.035952
UTP25	0.035908
ACAA1	0.035901
ERO1B	0.035894
TEX264	0.035886
CACNA2D2	0.035878
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RWDD4P2	0.035805
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CSNK1D	0.035733
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PDS5A	0.035647
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TIMP1	0.035625
PRDX5	0.035611
ELOVL5	0.035593
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DDB1	0.035432
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SIKE1	0.035379
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NFRKB	0.035361
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ACADVL	0.035305

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ASCC2	0.035286
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CSNK2A2	0.035186
COX7A2L	0.035157
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GLOD4	0.035049
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DCAF12	0.034842
NAB1	0.034825
AHCY	0.034793
ARIH1	0.034774
LINC00511	0.034759
SDHC	0.034732
DOCK5	0.034708
NIPBL	0.034686
UBE2M	0.034678
RPS11P5	0.034671
AMMECR1L	0.03467
SH3BGRL2	0.034656
GXYLT1	0.034648
ZDHHC9	0.034647
RUVBL2	0.034588
ACP1	0.034576
SSR2	0.034531
ZNF146	0.034531
CDS1	0.034521
AC131206.1	0.034483
ZNF629	0.034441
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STARD3NL	0.034368
KRT8P33	0.034361
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PPT2	0.034265
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SSRP1	0.034173
HMCES	0.034134
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XPOT	0.033921
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CHERP	0.033852
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THAP10	0.033696
PTPN11	0.033651
AMPD2	0.033651
MAPK12	0.033626
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MTX1	0.033598
CHCHD5	0.033561
RASSF6	0.03356
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CDH24	0.033449
DPY30	0.03342
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ATP5F1D	0.033391
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ITPR3	0.033225
HTR7P1	0.033185
RBBP8	0.033161
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CTDSPL2	0.03308
EIF3M	0.03308
SH3BP4	0.033076
WSB2	0.033036

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KHDC4	0.033016
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WDR53	0.032957
SNRNP27	0.032939
SLC6A6	0.032929
CDC37	0.032914
AL132712.1	0.032913
MEGF9	0.032902
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SOCS6	0.031505
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TROAP	0.025225
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TRIP12	0.01749
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LGSN	0.017366
E2F4	0.017302
PWP1	0.017301
SYNGR2	0.017299
CBX5	0.017297
LMO7	0.017288
PSMA5	0.01728
HPF1	0.017253
LYPD1	0.017237
KLF15	0.017235
MICU1	0.01722
PSMG4	0.017207
LPCAT3	0.017201
NDUFV1	0.017184
PRLR	0.017183
EIF4G3	0.017177
LINC00957	0.017107
RAB22A	0.017099
COPB1	0.017099
EIF2S1	0.017098
ZNF140	0.017089
ZDHHHC5	0.017067
RAD50	0.017049
ZNF76	0.017036
REST	0.016996

POLR1D	0.016989
YPEL1	0.016975
NUDT14	0.016974
NUP85	0.016957
FBXO4	0.01695
FAM185A	0.016879
PCDHB9	0.01686
DLGAP4	0.016842
TEX10	0.016834
DHX15	0.01683
UFM1	0.016823
RABIF	0.016814
SUSD4	0.016704
OSBP	0.016691
IFFO2	0.016677
PPP4C	0.016639
DPH1	0.016636
GUCD1	0.016625
TIMM23	0.016623
F2RL3	0.016606
ACBD5	0.016595
LINC00513	0.016546
SNRPB	0.016518
CLDN3	0.016503
NABP2	0.016449
ZBTB8A	0.016437
DPYSL3	0.016411
RAD51C	0.016375
LRRC58	0.016367
PITHD1	0.016343
ECD	0.016321
CCDC15	0.016312
TUFM	0.016307
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CHM	0.016275
RHOA	0.016274
GGPS1	0.016251
HINFP	0.016241
TESK1	0.01624
SHLD2	0.01622
MKRN1	0.016185
SLC14A1	0.016178
APOOL	0.016178
AC005288.1	0.016173
MAPK3	0.016162
KYAT1	0.016147
THUMPD2	0.016143
PSRC1	0.016082
FAM193A	0.016049

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KANSL2	0.015964
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TUSC2	0.015943
RFTN1	0.015936
DENR	0.01591
UBE2F	0.015899
DOP1B	0.015876
MFSD6L	0.015869
ITGA9	0.015852
CAPN5	0.015837
PDRG1	0.015834
VLDLR	0.015829
UBE4A	0.015815
SRGAP2C	0.015804
DMAC2	0.015734
MYL6	0.015731
RAB32	0.015688
CNOT6	0.015679
FEM1B	0.015677
C11orf45	0.015676
MIR589	0.01567
RBM22	0.015641
PRPSAP1	0.015627
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NUDCD2	0.015577
AC099850.1	0.015576
C15orf40	0.015575
UPF1	0.015562
ZNF691	0.015554
MIER3	0.015554
RWDD4	0.015543
MGST2	0.015532
COX7A1	0.015523
NAT9	0.015494
MICOS10P3	0.015492
MRPL32	0.015489
KXD1	0.015434
PLXNB3	0.015378
WRAP53	0.015325
PCGF2	0.015269
ZG16B	0.015262
BLOC1S3	0.015241
TCF3	0.015211
CDK13	0.015187
BAZ1B	0.015166
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RAB5C	0.015137
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MID1	0.015087
CENPW	0.01508
TMTC1	0.015076
RAB3D	0.015031
RRP15	0.015031
STRN	0.015015
RNMT	0.015014
PDXDC1	0.014998
PDCD2L	0.014991
DDX49	0.014979
SECTM1	0.014955
TFPI2	0.014946
VASH2	0.014897
UBE2Z	0.014889
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CENPB	0.014861
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SORT1	0.014725
RPN1	0.014677
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TSPAN4	0.014621
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MED14	0.014555
CHTF18	0.014476
SOCS5	0.014418
POLE4	0.014412
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UBTF	0.014405
TOR1B	0.014395
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DPEP1	0.014361
SHROOM3	0.01434
CMTM1	0.01429
QTRT2	0.014289
STAG3L4	0.014239
OXSM	0.01423
TNKS2-AS1	0.014227
CYB5A	0.014212
MEAF6	0.014211
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TAF5L	0.014195
KLC2	0.014173
LARS1	0.01417
PHACTR4	0.014139
FUBP1	0.014134

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LARS2	0.014049
ARMT1	0.014039
POLL	0.01403
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SYNCRIP	0.013994
CPSF3	0.013982
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FBXO5	0.013957
HSPD1	0.013953
NORAD	0.01391
AEBP2	0.01386
COG8	0.01386
USP39	0.013851
C6orf226	0.01385
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AL031602.1	0.013795
ZNF544	0.013794
GTF2F1	0.013786
GLRX	0.013783
NUP37	0.013768
BBOX1-AS1	0.013762
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ABCB8	0.013749
ELP6	0.013725
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CIAO3	0.01367
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RETREG3	0.013588
IGFBP4	0.013587
AGPAT2	0.013584
TERF2	0.013556
DNAJC19	0.013555
PPP2CB	0.013548
TONSL	0.013512
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ZDHHC20	0.013421
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COX5A	0.013331
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MYPOP	0.013274
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AL035461.2	0.013201
RNY3P8	0.013178
TRPT1	0.01316
CACYBP	0.013137
CDK18	0.013111
GPR161	0.013107
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SGTA	0.012947
ECSIT	0.012946
ACBD3	0.012934
AC092071.1	0.012934
KAT14	0.012916
FOXP1	0.01291
EEF1E1	0.01291
MBTPS1	0.012881
TMCC1	0.012864
ERCC8	0.012846
ANKRD17	0.012839
FOXRED1	0.012838
MAPRE1	0.012838
NDUFA4	0.012832
NCBP1	0.012794
THUMPD3	0.012782
ENAH	0.012702
FAM149B1	0.012686
POLR3A	0.012685
H3P36	0.012682
RPAP3	0.012672
ANAPC16	0.012619
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GNAS	0.012583
BORCS7	0.012562
GNG10	0.012552
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AC009318.3	0.012502
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FAM210B	0.012465
NDUFAB1	0.01236

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DCAF1	0.012261
RPL5P4	0.01223
PLEKHA8	0.012201
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DYNLL1	0.012143
FER	0.012142
SHPK	0.012128
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THAP1	0.012036
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ADO	0.01202
GPI	0.012004
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H2BC15	0.011961
CYCSP34	0.01196
CAST	0.011881
CST5	0.011861
KEAP1	0.011858
OPA1	0.011839
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ZFAND5	0.011806
ZSWIM9	0.011798
DNAJC8	0.011798
STXBP5	0.011793
GMPPA	0.011779
RBMS3-AS3	0.011759
EIF3L	0.01175
CFI	0.011719
HTRA2	0.011669
RAB21	0.011655
ZC3H18	0.011648
GTF3C1	0.011638
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ZNF883	0.011587
TMEM94	0.011567
BECN1	0.011549
TFCP2	0.011545
STPG1	0.01154
RMDN3	0.011527
NAA60	0.011476
CDYL2	0.011472
LYVE1	0.01147
IPMK	0.011445

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IPO11	0.011292
ARHGEF12	0.011279
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EBP	0.011265
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ZBTB10	0.01124
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TMCO6	0.011163
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HSPBP1	0.011012
MTG2	0.011004
MRPL55	0.010964
NDUFA2	0.010947
COX7CP1	0.010898
AC107027.3	0.010896
PDE2A	0.010872
FBXL13	0.010769
PCDHB8	0.010731
MCTP2	0.010713
SNX19	0.010712
SYNJ2	0.010695
SRGAP2	0.010678
AL513477.2	0.010673
SLC7A10	0.010639
MED19	0.010627
NOXA1	0.010564
LMNTD2	0.010551
AC020915.2	0.010547
HMGXB4	0.010541
NXPH3	0.010541
AC104447.1	0.010537
CENPJ	0.010529
ARID1A	0.010521
MED1	0.010521
DCLRE1B	0.010511
BOLA3	0.010505
ZSCAN22	0.010498
ZNF670	0.010485
WDCP	0.010478
MYBL2	0.010454
NXT2	0.010439
NME6	0.010423
FKBP1B	0.010422

BPNT2	0.010415
TMEM230	0.01039
SLC66A3	0.010364
RTCB	0.01035
ACD	0.010349
SCOC	0.010347
BRAP	0.010337
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VAPB	0.010328
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DNA2	0.010303
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C1orf50	0.010179
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MACO1	0.010123
ARMCX5	0.010112
FZD4	0.010102
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SKA2	0.010005
NCK1	0.009998
UBE2E2	0.009992
SLF1	0.009965
TYW3	0.009945
SLC35F3	0.009844
ILDR1	0.009835
IL4R	0.009825
MPG	0.009808
EDF1	0.009777
HBS1L	0.009757
RHEB	0.009748
CINP	0.009747
UBALD1	0.009739
PBK	0.009729
OGDHL	0.009686
TECR	0.009673
DCTN4	0.009669
TADA2B	0.00966
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LARP4	0.009631
C8orf58	0.00963
LAS1L	0.009589
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EVA1C	0.009537
RPL18	0.009528
COG3	0.009522
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DBT	0.009471
HCFC1	0.009466
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ALPK3	0.009362
STX5	0.009357
PIK3R4	0.009352
ALKBH7	0.009303
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PRRG4	0.009098
UCN3	0.00909
TRMT12	0.009066
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FAM53C	0.009053
TSC2	0.009044
MOCS2	0.009042
LSS	0.00902
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ATP6V0B	0.008972
AC020978.4	0.008939
ZNF837	0.008928
WBP4	0.008917
DDX18	0.008887
SKIL	0.008873
SDHD	0.008855
C9orf16	0.008749
ROR2	0.008744
SIK2	0.008743
THAP9-AS1	0.00869
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ISOC2	0.008622
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BRD9	0.008606
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C8orf82	0.008545
GTF3C3	0.00854
EIF2A	0.008513
HCG18	0.008503
UTP15	0.008437
CAMSAP1	0.008428
MAML2	0.008422
XPNPEP1	0.008414
PDCD10	0.008411
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AC010615.2	0.008228
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HDHD5	0.008135
RNU6-30P	0.008128
ILRUN	0.008118
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SREK1IP1	0.008078
DHODH	0.008073
CRPPA	0.008064
PPP1R10	0.008041
LRRC37A3	0.008038
MCRIP1	0.008034
ATP5MG	0.007994
HMGXB3	0.007994
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EID1	0.007969
SNAPIN	0.007932
ZNF398	0.007884
SMC1A	0.007865
TK2	0.007848
CNPY4	0.007813
DHX9	0.007794
NVL	0.007779
ATF6	0.007777
ESYT1	0.007768
ZC3H3	0.007754
GTF2H5	0.007729
ACOT8	0.007701
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GSPT1	0.007692
CDCA2	0.00765
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NKD2	0.007576
UPF3B	0.007518
DAZAP2	0.007517
TMEM219	0.007475
ITGB1BP1	0.007466
BRD3	0.007357
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PEX13	0.007277
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SCAT8	0.007238
ABCB7	0.007233
ZNF827	0.007226
MTFP1	0.007221
WFDC10B	0.007162
PARK7	0.007157
RPS6	0.007126
TMEM97	0.007085
AC018645.3	0.007039
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NUP62	0.007005
CCL28	0.007004
AGO1	0.00697
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POLR2C	0.006839
DNAJC15	0.006805
UBXN6	0.006798
C15orf61	0.006785
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GPATCH3	0.006588
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MRPL20-DT	0.006351
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ARL1	0.006176
CREB3L4	0.00615
DGCR6	0.006133
FUNDC1	0.006124
SDAD1	0.006123
NUDT22	0.006043
DONSON	0.006036
TYSND1	0.006025
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DDX27	0.005883
HMGB1	0.005869
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HARS1	0.005555
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SHOC2	0.005545
AC073896.2	0.005524
PRDX3	0.005493
QRICH1	0.00549
GATC	0.005482
RAB14	0.005471
GLYR1	0.005449
CCNK	0.005428
CA8	0.005423
POLR3G	0.005398
FZR1	0.005392
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MRPL30	0.005371
ANP32E	0.005355
RALY	0.00534

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FTL	0.005311
NADK	0.005301
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CYP2S1	0.005251
TPT1P4	0.00525
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GEM	0.005241
INTS12	0.00524
H3P14	0.00524
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CNPPD1	0.005161
NAP1L1P1	0.005158
PSMD7	0.005126
OSGEPL1	0.005119
TRPM4	0.005096
ZKSCAN4	0.005059
TMEM42	0.005059
INTS7	0.005052
RNF44	0.005036
MRPL18	0.005032
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CFDP1	0.004997
SF3B3	0.004974
TRAPPC6A	0.004973
UQCR10	0.004963
SLC27A3	0.004948
CYP2J2	0.004926
RPTOR	0.004911
RNASEL	0.004874
PPP1CA	0.004866
SFR1	0.004848
RBM27	0.004819
DDX42	0.004803
KTN1-AS1	0.004791
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DCAKD	0.004782
IAH1	0.004778
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EIF2B5	0.004765
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KIAA0895	0.004309
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KIAA0753	0.004103
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SMC1B	0.004051
ADCK2	0.004044
Z99129.4	0.004038
SLC25A17	0.004034
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PRR3	0.004006
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SPTBN1	0.003945
GPX1	0.003942
RECQL5	0.003935
DHX8	0.003895
C5orf15	0.003883
JMJD4	0.003857
PHYH	0.003796
WFDC3	0.003755
PDE8A	0.003749
C22orf23	0.003733
CYCS	0.003733
OTUB1	0.003728
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STK31	0.003706
ZFAND2B	0.003634
ZNF148	0.003634
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CNOT3	0.003558
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THAP3	0.003546
OSER1	0.003538
MAGOHB	0.003518
R3HDM1	0.003506
CTC-338M12.4	0.003498
SRSF9	0.003491
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STX10	0.003465
JADE1	0.003441
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COX8A	0.003322
SETD9	0.003303
PITPNB	0.003298
DBR1	0.003289
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SDC1	0.003279
DRAP1	0.003276
GTPBP4	0.003273
MLEC	0.003262
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ZSWIM8	0.003198
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PCNP	0.003176
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PRUNE2	-0.84394
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TRGV10	-0.84553
IRF8	-0.84793
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GHRL	-0.84886
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SNORA71C	-0.85098
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CXCR4	-0.85186
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LGALS2	-0.85473
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RCSD1	-0.87535
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NCF1	-0.88663
CNGA3	-0.88765
CD8B	-0.88844
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PCP4	-0.89038
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TNFSF8	-0.90996
LINC02351	-0.91048
CHST9	-0.91052
POU2F2	-0.91054
AC004130.1	-0.91056
SPP2	-0.91189
SLC38A4	-0.91221
MIR5195	-0.91258
AC007906.2	-0.91371
SLC5A8	-0.91405
CD3G	-0.91508
RN7SL151P	-0.9154
CD247	-0.91555
CPLX2	-0.91732
CDC20B	-0.91761
RN7SL381P	-0.9181

C7	-0.91846
KRT5	-0.92258
TRBV11-2	-0.92304
CCDC170	-0.9234
TRAV1-2	-0.92429
TRBV6-5	-0.92446
RGS1	-0.92608
RNU1-88P	-0.92637
HSPE1P18	-0.92681
MALAT1	-0.92937
SLFN12L	-0.93038
LRP2	-0.93128
RNY4P7	-0.93233
TOMM20P2	-0.9324
ZC3H12D	-0.933
ABCA13	-0.93419
TRBJ2-1	-0.93492
RNVU1-15	-0.93522
AL162578.1	-0.93535
AC004884.2	-0.93629
AC114402.1	-0.93708
AL022313.2	-0.93866
IGKV5-2	-0.93965
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GFI1	-0.94047
IL16	-0.94231
LDLRAD1	-0.94321
AL732366.2	-0.94339
IKZF3	-0.94345
SPAG8	-0.94402
AC131971.1	-0.94619
AC015722.2	-0.94752
ITGAL	-0.94766
MPHOSPH6P1	-0.94825
TESPA1	-0.94907
NLRC3	-0.94909
AL121790.2	-0.94933
RNVU1-2	-0.94954
AC012645.3	-0.95041
GP1BA	-0.95048
TRAC	-0.95171
TRG-AS1	-0.95177
TRAV8-6	-0.95222
IKZF1	-0.95248
RASAL3	-0.95274
CCDC17	-0.95295
RHOH	-0.9531
CACNG6	-0.95337
RNU4ATAC12P	-0.95353

UBASH3A	-0.95468
CXCR6	-0.95479
ZCCHC12	-0.95503
LRRIQ1	-0.95603
NEK5	-0.95632
GRAP2	-0.95649
LINC02541	-0.95707
MDH1B	-0.95751
HLA-DPA3	-0.95806
CFAP157	-0.95868
CLEC4E	-0.95981
CD2	-0.96223
RN7SL128P	-0.96223
ZNF474	-0.96228
CD96	-0.9623
TRBJ2-3	-0.96259
RNU6-759P	-0.96302
WDFY4	-0.96475
CDHR3	-0.96541
TRBC2	-0.96761
MACC1-AS1	-0.96816
CYTIP	-0.96835
TEKT2	-0.96839
AC122718.2	-0.96917
CFLAR-AS1	-0.97034
RAB39B	-0.97046
MIR553	-0.97149
CTNND2	-0.97299
POLRMTP1	-0.9738
MIR155HG	-0.97515
CD3D	-0.97525
STMN2	-0.9769
TRBV7-3	-0.97824
CCR4	-0.98218
ZMYND10	-0.98309
P2RY8	-0.98379
TRAV13-2	-0.98481
ICOS	-0.98592
RN7SL141P	-0.9871
CD6	-0.99065
TRAV8-4	-0.99229
RN7SL663P	-0.99237
PNMA3	-0.99265
TRAV41	-0.99288
RNU6-130P	-0.9936
JSRP1	-0.99392
RPL32P1	-0.99398
AC108471.1	-0.99415
MIR5692C2	-0.99465

AL645924.1	-0.99466
RN7SL116P	-0.99517
CPNE5	-0.99801
ATP6V0E1P1	-0.99846
CADM3	-0.9989
RNU4-24P	-1.00044
TRAV4	-1.00164
TIGIT	-1.00251
AL022067.1	-1.00296
C6	-1.00355
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AC005326.1	-1.00499
AL021068.1	-1.00714
AP001429.1	-1.00772
TCTEX1D1	-1.00773
DYDC2	-1.00814
TRBV29-1	-1.01065
AC034105.1	-1.01212
SNORD38D	-1.01248
RNU7-45P	-1.01291
AL606517.2	-1.01311
APOA1	-1.01344
NWD1	-1.0145
PIM2	-1.01462
MT-TV	-1.01535
CD3E	-1.01641
CXCL9	-1.01793
NAALADL2-AS2	-1.01832
IGHV1OR15-2	-1.02036
PPP1R16B	-1.02099
TRBV6-1	-1.02192
IGLC7	-1.02448
MIR7848	-1.02496
DERL3	-1.02521
KLRB1	-1.02582
AC141557.1	-1.02618
SIRPG	-1.02628
DLEC1	-1.02744
TRBV7-9	-1.02772
MS4A8	-1.02868
RN7SKP80	-1.03057
CLCA2	-1.03157
TBC1D10C	-1.03193
MAP4K1	-1.03212
MIR4420	-1.03213
RNU7-79P	-1.03235
IL18RAP	-1.03319
MIR4802	-1.03344
ICAM3	-1.03393

IGHV3-65	-1.03398
PARP15	-1.03459
AC007684.1	-1.03498
TRAV9-2	-1.03533
NOTUM	-1.03608
BAALC	-1.03637
ACAP1	-1.03834
PATL2	-1.03894
TRAV16	-1.03919
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AC068587.2	-1.04116
LINC01215	-1.04239
SPAG6	-1.04261
LRRC46	-1.04343
RNU6-795P	-1.04449
SAXO2	-1.04456
EOMES	-1.04492
LTA	-1.04594
TRAV17	-1.04598
PACRG	-1.04731
STMND1	-1.04747
NOS2	-1.04951
RN7SL665P	-1.05003
TIMM9P2	-1.05132
IGLV2-23	-1.05251
SIT1	-1.05453
ANXA13	-1.05554
CFAP91	-1.05728
DNAI3	-1.05758
SNORD71	-1.05805
H2AC20	-1.06065
TRBV19	-1.06089
AC011939.2	-1.06145
RN7SL564P	-1.0618
IGKV3OR2-268	-1.06185
TRBV3-1	-1.0619
ROPN1L	-1.06199
RNU6-608P	-1.0621
TRBV12-4	-1.06226
GIMAP5	-1.06245
IGLV3-9	-1.06425
RN7SL396P	-1.06469
MIR1205	-1.06525
TRBV28	-1.06532
TRBV18	-1.06671
DYNLRB2	-1.06691
TRAV3	-1.06745
ENKUR	-1.0677
CDK5R2	-1.06843

IGKV2D-40	-1.06843
RNU7-181P	-1.07011
H2BC6	-1.07061
SNORD67	-1.07116
SNORA5A	-1.07301
CD5	-1.07307
TRBJ2-2P	-1.07336
TRBJ2-2	-1.07396
IGKV2D-24	-1.07537
CNGA4	-1.07583
SLC13A2	-1.07647
THEMIS	-1.07728
P2RX5	-1.07935
SEPTIN1	-1.08011
IGHV3-79	-1.08275
MIR3142HG	-1.0855
AC007878.1	-1.08643
SNORD94	-1.08955
CYP2F1	-1.09161
CEL	-1.09323
TLR10	-1.09365
TRAV8-2	-1.09532
AC096741.1	-1.09704
PTGDS	-1.09782
BCL2L1-AS1	-1.09835
TTLL10	-1.09849
NKD1	-1.09933
KLHL6	-1.09955
RN7SL838P	-1.09964
FTH1P22	-1.10004
TAF5LP1	-1.10279
EFCAB1	-1.10296
RNU6-1176P	-1.10372
TRAV14DV4	-1.10414
RNU6-107P	-1.10426
SLC38A3	-1.10435
DRC1	-1.10447
LINC00996	-1.10471
TRAJ31	-1.10479
C1orf194	-1.10503
H2BC13	-1.10613
IGHV3-22	-1.1103
RASGRP2	-1.11077
VWA3B	-1.1119
C11orf16	-1.11208
MEI1	-1.11213
CUZD1	-1.11275
RNU7-80P	-1.11398
SNORD9	-1.11417

SLAMF7	-1.11438
SCG3	-1.1157
MTMR7	-1.11655
AC114760.2	-1.11955
SYT4	-1.12014
SNORA74B	-1.12041
SNTN	-1.1212
HPX	-1.12436
IGHV4-34	-1.12576
OMG	-1.12754
TRAF3IP3	-1.12765
AC007991.2	-1.12832
SH2D1A	-1.12885
LILRA2	-1.12898
TRBJ2-7	-1.12929
CFAP43	-1.13113
AF178030.1	-1.13137
DDC	-1.13381
RNVU1-27	-1.13496
SCARNA8	-1.13674
LY9	-1.13858
CD48	-1.13962
TRBC1	-1.14131
AC004386.6	-1.1416
TFAP2D	-1.14188
F2	-1.14266
CAPSL	-1.14592
DCDC2B	-1.14879
MUC6	-1.14941
LINC00426	-1.15028
AC087286.1	-1.15098
TRBV20-1	-1.15211
P2RY10	-1.15215
IGHV3-38	-1.15661
IGHD	-1.15879
TRBV2	-1.1604
TRBV5-4	-1.16063
IGKV3D-15	-1.16147
IGLV7-46	-1.16226
TRAV12-1	-1.16276
TRBV6-6	-1.16465
PYHIN1	-1.16575
STOML3	-1.16683
AC004687.1	-1.1677
IGLV3-12	-1.16809
SNORA28	-1.16827
RSPH4A	-1.16949
IGHV5-78	-1.17042
RN7SL752P	-1.17085

CLECL1	-1.17097
AC015911.3	-1.17203
ZBP1	-1.17328
ANKRD44-AS1	-1.17382
CTLA4	-1.17388
IGHG2	-1.17476
TRAV8-3	-1.17546
IGHD6-19	-1.17549
RN7SL767P	-1.17693
IGHA2	-1.1771
TRBV5-1	-1.17737
SNORA1B	-1.17761
SAA4	-1.18235
BTBD9-AS1	-1.18281
CXCR2P1	-1.18442
RERGL	-1.18593
IGLV3-13	-1.18776
ANKRD36C	-1.18841
ADGRG5	-1.1885
IGHV1-69D	-1.19142
RNU6-942P	-1.19142
FAM166B	-1.19525
ITK	-1.19548
IGHV3-43	-1.19628
IGHG3	-1.19655
IGHV1OR21-1	-1.19723
TRAJ3	-1.19758
SLAMF1	-1.1983
IGHD2-15	-1.19928
APOH	-1.20149
IGHV3-60	-1.20237
MORN5	-1.20254
AC245128.3	-1.20321
ZAP70	-1.20348
IGLV3-21	-1.20382
IGHV1-67	-1.20542
IGHV3OR16-15	-1.20613
CD300LG	-1.2063
DNAI1	-1.20685
GZMK	-1.20734
CFAP73	-1.20766
RNU6-122P	-1.20941
RNA5SP111	-1.21055
C9orf24	-1.21113
CD40LG	-1.21195
IGHV3OR16-8	-1.21699
IGLC6	-1.21719
AL157871.3	-1.21893
MIR644A	-1.22038

TUBA4B	-1.22282
CCDC154	-1.22292
C9orf135	-1.22507
RET	-1.22732
IGLC2	-1.22748
CFAP65	-1.22892
AL139120.1	-1.22905
CFAP77	-1.22954
GPR15	-1.23068
IGLV5-37	-1.23145
SPRR2A	-1.23296
SNORA53	-1.23684
IGHV3-66	-1.23799
SLAMF6	-1.23838
CREB3L2-AS1	-1.23988
RNU6-920P	-1.24016
PSMD10P1	-1.24036
RNU6-522P	-1.24263
RNVU1-31	-1.24326
CFAP100	-1.24416
DNAAF1	-1.24496
IGHV1-18	-1.2454
C1orf189	-1.24568
CD27	-1.24576
GVINP1	-1.24798
IGHV1-46	-1.24855
MIR1245A	-1.24895
IGHV1-58	-1.24996
AKAP14	-1.25014
TRAT1	-1.25023
AC234772.1	-1.25023
FCMR	-1.25094
RN7SKP227	-1.2523
IGKV1OR10-1	-1.25285
RNU6-2	-1.25289
AC243960.1	-1.25316
IGHV3OR15-7	-1.25383
CFAP52	-1.25651
IGHA1	-1.25772
SNORA2C	-1.25787
IGLV2-28	-1.25848
ECT2L	-1.26122
IGHJ2	-1.26254
VWA3A	-1.26288
GPR18	-1.26307
CCR7	-1.26384
RPL12P20	-1.26387
IGHV3OR16-12	-1.26508
IGHV3-6	-1.26628

AL133304.2	-1.2667
IGKV2OR22-4	-1.26706
IGHV7-81	-1.26732
IGHV3-49	-1.26814
RNU7-124P	-1.27269
IGLV1-50	-1.27306
IGLC3	-1.27384
AC022022.2	-1.27487
IGKV2-29	-1.27558
SPRR1A	-1.27641
GPR174	-1.27655
RN7SKP9	-1.27692
RNU7-70P	-1.27742
PNOC	-1.2776
WDR38	-1.27841
IGKV1D-43	-1.27913
H2BC9	-1.28233
HOATZ	-1.28349
IGKV3D-11	-1.28381
RNU6-681P	-1.28531
TRBV4-2	-1.28593
IGLJ2	-1.28798
TTC29	-1.28898
C1orf87	-1.28901
AC100826.1	-1.28947
MIAT	-1.29078
APOBEC4	-1.29195
IGHV3-62	-1.29437
LILRP1	-1.29512
SNORA20	-1.30147
LRRC71	-1.30177
IGKV3-7	-1.30243
CDHR4	-1.30384
IGHV3-47	-1.30448
IGLV2-33	-1.30589
DNAAF6	-1.3064
TRBV10-3	-1.307
IGHV3-63	-1.30747
MZB1	-1.30855
KIF19	-1.30914
IGHV1-45	-1.30921
RNVU1-7	-1.31285
IGHV3OR16-9	-1.31369
IGHV1-17	-1.3146
IGLV4-69	-1.31759
IGHV1-69	-1.31802
LRRC18	-1.3202
LINC01857	-1.32051
IGHJ3	-1.32103

AC091925.2	-1.32108
IGKV1-17	-1.32109
FCRL2	-1.32132
OBP2A	-1.32154
LINC01765	-1.32203
IGLV2-5	-1.32269
IGHV7-27	-1.32477
TRBV4-1	-1.32511
C20orf85	-1.32512
SPIB	-1.32563
C6orf118	-1.32721
IGLV3-25	-1.32734
IGHGP	-1.32835
IGHV3-53	-1.32913
WDR49	-1.32972
SNORD56B	-1.33036
IGLV3-10	-1.33055
C22orf15	-1.33208
IGKV1D-17	-1.33295
TEKT1	-1.33399
IGKV3D-20	-1.33458
LTF	-1.33712
IGKV3-15	-1.33868
RNU6-998P	-1.33959
IGHV3-41	-1.33997
IGHV3-35	-1.3435
IGHV3-73	-1.34483
CIBAR2	-1.34743
AC103591.3	-1.34983
SNORA14B	-1.35126
IGKV1-16	-1.35156
IGHD6-6	-1.35319
IGLV2-34	-1.35473
ATP12A	-1.35492
MIR624	-1.35539
IGHV1OR15-9	-1.35638
IGLV1-47	-1.3575
H3C13	-1.36004
SRGAP3-AS2	-1.36016
IGKV1-8	-1.36089
POU2AF1	-1.36264
CHRD12	-1.3627
IGKV1D-13	-1.36563
IGLV4-3	-1.36595
NCR3	-1.36892
IGKV2D-28	-1.36963
SCARNA7	-1.37045
IGLV2-11	-1.37093
AC103563.3	-1.37107

IGHD3-9	-1.37485
AC022973.4	-1.37658
IGKV1-27	-1.37765
IGHV3-37	-1.37773
AL049830.4	-1.38016
SCARNA22	-1.38063
IGKV2-30	-1.38365
IGHV4-59	-1.38491
PI15	-1.38503
RPS20P15	-1.38875
RNU11	-1.38918
DNAH9	-1.39013
ADAMDEC1	-1.39212
IGHV3-48	-1.39315
ITIH2	-1.39332
C11orf97	-1.39333
IGLV5-48	-1.39369
IGKV1OR2-3	-1.39448
IGHV3-52	-1.39475
UMODL1	-1.39479
IGHV3OR16-13	-1.39815
IGHV3-75	-1.40013
DTHD1	-1.40026
RNU5A-8P	-1.4005
BTLA	-1.4017
NUGGC	-1.40294
IGHV3OR16-10	-1.40459
LINC00582	-1.40463
DNAI2	-1.40485
IGHVIII-67-2	-1.40577
IGLV7-43	-1.4059
SNORA63C	-1.40767
IGHV3OR16-17	-1.41019
AC010359.1	-1.41022
IGHV4-61	-1.41117
RNU6-126P	-1.41268
IGHV3-30	-1.41491
IGLV6-57	-1.4163
AC134879.2	-1.41686
DEFB4A	-1.41781
H3C12	-1.4179
LINC00861	-1.41904
FAM216B	-1.41946
IGKV3-20	-1.41959
TRAJ17	-1.41985
CD22	-1.42023
RNU5F-1	-1.42181
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STAP1	-1.42365

IGHV3-76	-1.42475
IGKV1-5	-1.42507
RNU1-11P	-1.42609
IGHV4-28	-1.42962
IGHV2-70	-1.43035
IGHV4-31	-1.43095
IGHV5-51	-1.43127
IGKV1D-8	-1.43177
IGLL5	-1.43181
TAC4	-1.43197
IGKC	-1.4335
PAH	-1.43377
IGHV1-12	-1.43418
IGHG1	-1.43452
TMEM190	-1.43544
ZBBX	-1.43685
AC245517.5	-1.43748
IGKV1D-33	-1.44073
TRAJ6	-1.44099
IGFBP1	-1.44393
TRAJ18	-1.44402
RNU6-1045P	-1.44482
IGKV1-9	-1.44514
IGLV1-44	-1.44543
SCARNA21	-1.4469
IGHV3-72	-1.44701
IGKV7-3	-1.45019
IGLV1-40	-1.45061
AC135068.1	-1.452
UGT2B4	-1.45256
IGLV1-51	-1.45382
IGHV3-64	-1.45563
IGLV2-8	-1.45771
LAX1	-1.4603
IGHV3-33	-1.46103
IGHV4-55	-1.46313
MIR8071-1	-1.46353
IGKV1OR2-108	-1.46692
RNU4-51P	-1.46732
AC090571.1	-1.46876
IGKV2-18	-1.46994
AL357093.2	-1.47002
VPREB3	-1.47086
RNU6-1283P	-1.47167
IGKV2D-29	-1.47321
SNORA46	-1.47381
MIR3140	-1.47862
TRAJ1	-1.48111
IGHV7-56	-1.48318

TCL1A	-1.48433
TRAJ2	-1.4846
AC025423.5	-1.48498
FCRL5	-1.48904
ERICH3	-1.48905
MIR5690	-1.49073
RN7SL648P	-1.49243
IGHV3-19	-1.49339
TSPAN19	-1.49376
IGKV2-28	-1.49849
IGHV1-3	-1.49883
LINC02362	-1.49919
IGKV3-11	-1.50038
IGHV1OR16-1	-1.50064
IGKV1D-39	-1.50141
AC037487.2	-1.50216
IRF4	-1.50233
MIR34C	-1.50412
AC130895.1	-1.50516
PVALB	-1.50541
ASCL1	-1.50709
JCHAIN	-1.50744
IGHV3-21	-1.50963
TRAJ5	-1.51112
AC009032.1	-1.51121
FGF19	-1.51204
IGLV2-14	-1.5175
IGLJ1	-1.51857
SNORA7B	-1.51953
SCARNA9	-1.52379
TRAJ10	-1.52406
H2AC16	-1.52424
SNORA40B	-1.52942
SNRPGP18	-1.53172
IGHV3-74	-1.53191
IGKV1OR22-5	-1.53339
AL033519.1	-1.53459
IGHV3-15	-1.53565
ANKRD44-IT1	-1.53586
CLC	-1.53817
IGKV1-6	-1.53878
RNY4	-1.54039
IGHV1-2	-1.54049
CD79B	-1.54203
ASGR2	-1.54255
DTNB-AS1	-1.54614
IGKV2OR2-1	-1.54668
IGHD3-22	-1.54857
RNU6ATAC	-1.5494

IGHV3-25	-1.55808
IGLV3-1	-1.55813
SNORA63D	-1.56084
VTRNA1-1	-1.56198
IGKV1-39	-1.56325
IGHV3-42	-1.56582
TNFRSF17	-1.56603
IGHD4-17	-1.56678
IGKV2OR22-3	-1.56749
AGT	-1.57199
COPDA1	-1.57459
IGHV3-71	-1.57552
RN7SL329P	-1.57767
IGHV3-23	-1.57881
IGKV6D-21	-1.58035
IGHV3-7	-1.58046
IGHV3-20	-1.58357
SNORA74A	-1.58481
SMYD3-AS1	-1.59021
AC142381.1	-1.59311
RN7SL2	-1.59476
IGHV4-39	-1.59774
RNU4ATAC	-1.59876
IGHJ2P	-1.60061
IGHV2-26	-1.60197
SCARNA18	-1.60201
TMEM14EP	-1.60302
ANKRD36BP2	-1.60403
TRAJ39	-1.60447
IGKJ5	-1.60488
IGHD4-23	-1.60547
CYP17A1	-1.60829
PLA2G2D	-1.6098
IGLV3-19	-1.61322
IGHV3-11	-1.61549
LINC00926	-1.61778
AL136320.1	-1.6195
RNU4-1	-1.62565
IGHV3OR16-6	-1.63199
IGKV3D-7	-1.63344
IGHD6-25	-1.63485
AKR1C4	-1.63572
IGLV2-18	-1.63779
LINC01419	-1.64047
INSM1	-1.64462
IGHJ1	-1.64612
IGKV2-24	-1.65335
SNORD8	-1.65439
IGHD6-13	-1.65753

IGKV4-1	-1.65846
IGLJ3	-1.65974
TRAJ38	-1.66141
CXCL13	-1.66147
IGKV1OR2-11	-1.66284
MIR8071-2	-1.66357
IGKV2-26	-1.66825
CR2	-1.67309
KRT13	-1.67997
TNFRSF13C	-1.68622
RNU2-59P	-1.69125
IGLV4-60	-1.69152
IGHV1-24	-1.69716
SCARNA12	-1.70318
IGLV3-27	-1.70409
H2BC14	-1.7044
IGKV1OR22-1	-1.70972
RNA5SP202	-1.71358
RNU4-2	-1.7164
AL157402.2	-1.72068
IGHJ3P	-1.72071
CD79A	-1.72085
RN7SKP203	-1.72189
FAM30A	-1.72345
H4C5	-1.72791
IGKV1OR2-6	-1.73093
IGHV4-4	-1.73604
SNORA80B	-1.73929
TRAJ12	-1.74117
IGHV2-5	-1.74161
SCARNA13	-1.74961
H3C1	-1.75036
IGKV1-33	-1.75523
PCSK1	-1.75564
H1-4	-1.75786
IGHV6-1	-1.75919
CCL19	-1.75958
AC103563.1	-1.76172
SNORA74D	-1.76433
TRAJ13	-1.76946
IGHD2-2	-1.772
IGKV1-12	-1.78118
IGHD4-4	-1.78165
SCARNA1	-1.78395
A2ML1	-1.78901
IGKV1-13	-1.80106
TRAJ8	-1.80129
IGHD1-1	-1.80263
PAX5	-1.80368

IGLV8-61	-1.80478
SNORA38B	-1.80698
FCRL3	-1.80806
MIR3609	-1.80971
IGHV1OR16-3	-1.81311
SCARNA3	-1.81935
IGLV5-45	-1.82416
NSG2	-1.83017
TRAJ37	-1.83182
H3C11	-1.83259
SCN3A	-1.83308
RMRP	-1.83651
RNU7-84P	-1.83837
SNORA47	-1.84022
SNORA37	-1.84373
TRAJ16	-1.84443
RNU7-4P	-1.84952
RNU2-23P	-1.85143
RN7SL507P	-1.85622
SCGB1A1	-1.85633
SCARNA10	-1.86049
APOA2	-1.86107
H2AC12	-1.86391
AC022973.1	-1.86708
TMEM229A	-1.87259
FCRLA	-1.87959
SNORA49	-1.88447
IGLV10-54	-1.8863
IGHV3-13	-1.88743
RNVU1-2A	-1.8928
TIMM9P1	-1.91892
CD19	-1.91949
IGKV6-21	-1.92875
LBP	-1.92944
CELF3	-1.93698
SNORA73B	-1.94363
PCK1	-1.94573
SNORA38	-1.9482
MIR4538	-1.95328
SNORA14A	-1.96007
FCER2	-1.97103
IGHD3-16	-1.97511
H2AC14	-1.97675
MIR4539	-1.98294
IGKV1D-12	-1.98454
TRAJ21	-1.99608
SNORA23	-1.99933
MIR4537	-2.00197
LINC01781	-2.009

RNY1	-2.01912
BLK	-2.02103
MIR5739	-2.02834
IGLV3-16	-2.02852
SNORA71A	-2.037
SNORA54	-2.03955
H4C2	-2.04238
RNU5A-1	-2.04283
IGHD2-21	-2.04894
IGLV3-6	-2.05135
RN7SKP71	-2.0532
SNORA22	-2.06114
RN7SKP255	-2.06966
H2AC4	-2.07856
IGLV1-36	-2.08964
AP000763.2	-2.09197
MIR4480	-2.10362
IGHV3OR16-11	-2.10471
RNU5B-1	-2.11417
IGHM	-2.11623
IGLVI-70	-2.13673
IGHD3-3	-2.14397
IGHV2-70D	-2.14455
TRAJ14	-2.1559
IGKV2D-30	-2.15803
RN7SL546P	-2.16742
FCRL1	-2.16827
GP2	-2.17207
AL391314.1	-2.17701
AL032819.2	-2.18405
H4C3	-2.19563
H2AC21	-2.19605
FDCSP	-2.20049
SCARNA6	-2.20191
SNORA80D	-2.23568
7SK	-2.24163
RNY3	-2.24738
H4C4	-2.25232
TF	-2.25293
SNORA71D	-2.25533
SCARNA5	-2.26062
RNU5E-1	-2.30351
TTR	-2.30384
H1-3	-2.30704
MS4A1	-2.32415
SNORA84	-2.34665
IGKV1D-16	-2.3485
CALML3	-2.34987
SPRR2E	-2.35576

SNORA79B	-2.37683
SNORA12	-2.40609
H3C7	-2.45617
RNU5D-1	-2.47109
SNORA80A	-2.4732
OLFM4	-2.49383
H1-5	-2.49467
WNT16	-2.49735
DEFA8P	-2.53499
CEACAM7	-2.55247
H4C1	-2.56295
RNA5-8SN1	-2.5711
IGHD1-26	-2.62426
SNORA22C	-2.65106
SNORD17	-2.71863
ALB	-2.72694
SST	-2.84613
H4C13	-2.85144
IGKV6D-41	-2.8825
AL121584.1	-3.00972
H2BC3	-3.04524
TAC1	-3.0936
H2BC10	-3.1528
SCG2	-3.16376
AL355075.4	-3.17743
IGLV9-49	-3.21637
VTN	-3.27353
VGLL2	-3.30562
AC026333.1	-3.71732
RN7SL434P	-3.84358
DEFA9P	-4.05329
GC	-4.1742
H1-1	-4.17922
H4C6	-4.3171
KIR2DL1	-4.46937
AC093001.1	-4.71482
DKK4	-4.95641
CALB1	-4.9594
AFP	-5.21308
NPY	-5.70133
DEFA5	-8.16463

Table S6. Immune cell bubbles of different IRGPI subgroups in multiplatform.

immune	cor	pvalue
B cell_TIMER	-0.55147	2.31E-41

T cell CD4+_TIMER	-0.37626	2.31E-18
T cell CD8+_TIMER	-0.19221	1.42E-05
Neutrophil_TIMER	-0.21329	1.38E-06
Myeloid dendritic cell_TIMER	-0.26619	1.32E-09
B cell naive_CIBERSORT	-0.09194	0.039289
B cell memory_CIBERSORT	-0.37676	2.07E-18
B cell plasma_CIBERSORT	-0.15689	0.000413
T cell CD8+_CIBERSORT	-0.18148	4.24E-05
T cell CD4+ memory resting_CIBERSORT	-0.16941	0.000135
T cell CD4+ memory activated_CIBERSORT	-0.11327	0.011015
T cell follicular helper_CIBERSORT	-0.13623	0.002199
T cell regulatory (Tregs)_CIBERSORT	-0.15135	0.00066
T cell gamma delta_CIBERSORT	-0.11461	0.010097
NK cell resting_CIBERSORT	0.125525	0.004812
Monocyte_CIBERSORT	0.103994	0.019655
Macrophage M0_CIBERSORT	0.09377	0.035515
Macrophage M1_CIBERSORT	-0.23424	1.07E-07
Macrophage M2_CIBERSORT	0.222494	4.63E-07
Myeloid dendritic cell activated_CIBERSORT	0.175099	7.89E-05
Mast cell resting_CIBERSORT	0.123491	0.005548
B cell naive_CIBERSORT-ABS	-0.19715	8.41E-06
B cell memory_CIBERSORT-ABS	-0.43266	2.31E-24
B cell plasma_CIBERSORT-ABS	-0.35859	1.04E-16
T cell CD8+_CIBERSORT-ABS	-0.39786	1.59E-20
T cell CD4+ memory resting_CIBERSORT-ABS	-0.37755	1.73E-18
T cell CD4+ memory activated_CIBERSORT-ABS	-0.12242	0.005977
T cell follicular helper_CIBERSORT-ABS	-0.39443	3.59E-20
T cell regulatory (Tregs)_CIBERSORT-ABS	-0.26382	1.87E-09
T cell gamma delta_CIBERSORT-ABS	-0.12249	0.005947
NK cell resting_CIBERSORT-ABS	0.110028	0.013548
NK cell activated_CIBERSORT-ABS	-0.27148	6.01E-10
Macrophage M1_CIBERSORT-ABS	-0.37349	4.27E-18
Macrophage M2_CIBERSORT-ABS	-0.22728	2.57E-07
Myeloid dendritic cell activated_CIBERSORT-ABS	0.113686	0.010722
Mast cell resting_CIBERSORT-ABS	0.088957	0.046142
B cell_QUANTISEQ	-0.58235	5.29E-47
Macrophage M2_QUANTISEQ	-0.207	2.84E-06
T cell CD4+ (non-regulatory)_QUANTISEQ	0.097661	0.028518
T cell CD8+_QUANTISEQ	-0.38636	2.36E-19
T cell regulatory (Tregs)_QUANTISEQ	-0.4022	5.57E-21
uncharacterized cell_QUANTISEQ	0.248431	1.64E-08
T cell_MCPCOUNTER	-0.50201	1.81E-33
T cell CD8+_MCPCOUNTER	-0.37434	3.54E-18
cytotoxicity score_MCPCOUNTER	-0.27295	4.81E-10
NK cell_MCPCOUNTER	-0.28027	1.57E-10
B cell_MCPCOUNTER	-0.71852	4.88E-81
Monocyte_MCPCOUNTER	-0.15291	0.000579

Macrophage/Monocyte_MCPCOUNTER	-0.15291	0.000579
Myeloid dendritic cell_MCPCOUNTER	-0.23215	1.40E-07
Myeloid dendritic cell activated_XCELL	-0.42981	4.95E-24
B cell_XCELL	-0.65135	4.73E-62
T cell CD4+ memory_XCELL	-0.18295	3.66E-05
T cell CD4+ naive_XCELL	-0.39015	9.81E-20
T cell CD4+ (non-regulatory)_XCELL	-0.10644	0.016936
T cell CD4+ central memory_XCELL	-0.10643	0.016952
T cell CD4+ effector memory_XCELL	-0.11748	0.008357
T cell CD8+ naive_XCELL	-0.14511	0.0011
T cell CD8+_XCELL	-0.46329	3.96E-28
T cell CD8+ central memory_XCELL	-0.48617	3.36E-31
T cell CD8+ effector memory_XCELL	-0.15866	0.000354
Class-switched memory B cell_XCELL	-0.51721	9.31E-36
Common lymphoid progenitor_XCELL	0.210013	2.02E-06
Myeloid dendritic cell_XCELL	-0.28041	1.53E-10
Eosinophil_XCELL	-0.08951	0.044805
Cancer associated fibroblast_XCELL	-0.15857	0.000357
Hematopoietic stem cell_XCELL	-0.09028	0.042977
Macrophage_XCELL	-0.23025	1.78E-07
Macrophage M1_XCELL	-0.23968	5.28E-08
Macrophage M2_XCELL	-0.1083	0.015094
Mast cell_XCELL	-0.18326	3.55E-05
B cell memory_XCELL	-0.51448	2.45E-35
Monocyte_XCELL	-0.15199	0.000626
B cell naive_XCELL	-0.22963	1.92E-07
Neutrophil_XCELL	0.14862	0.000827
Plasmacytoid dendritic cell_XCELL	-0.37055	8.11E-18
B cell plasma_XCELL	-0.50514	6.26E-34
immune score_XCELL	-0.51066	9.34E-35
stroma score_XCELL	-0.11654	0.008892
microenvironment score_XCELL	-0.46832	8.75E-29
B cell_EPIC	-0.7118	6.80E-79
T cell CD4+_EPIC	-0.19314	1.29E-05
Macrophage_EPIC	-0.21922	6.87E-07
uncharacterized cell_EPIC	0.224086	3.82E-07

Table.S3 GO terms and KEGG pathways enriched in blue modules

ONTOLOGY	ID	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	Count
BP	GO:0006958	87/182	141/18862	2.4557E-147	3.6221E-144	3.2208E-144	87
BP	GO:0002455	88/182	156/18862	4.8384E-144	3.5683E-141	3.1729E-141	88
BP	GO:0006956	88/182	178/18862	6.0405E-137	2.9699E-134	2.6408E-134	88
BP	GO:0019724	92/182	226/18862	1.4914E-133	5.4994E-131	4.8901E-131	92
BP	GO:0016064	91/182	223/18862	4.4402E-132	1.3098E-129	1.1647E-129	91
BP	GO:0002460	96/182	367/18862	6.6263E-118	1.629E-115	1.4485E-115	96
BP	GO:0006959	95/182	380/18862	2.1038E-114	4.4329E-112	3.9418E-112	95
BP	GO:0002449	93/182	360/18862	3.3538E-113	6.1836E-111	5.4985E-111	93
BP	GO:0002377	78/182	198/18862	3.2536E-110	5.3323E-108	4.7415E-108	78
BP	GO:0006909	89/182	381/18862	2.096E-103	3.0915E-101	2.749E-101	89
BP	GO:0002440	79/182	286/18862	3.61E-97	4.84E-95	4.31E-95	79
BP	GO:0002429	90/182	481/18862	3.46E-95	3.93E-93	3.49E-93	90
BP	GO:0002757	90/182	481/18862	3.46E-95	3.93E-93	3.49E-93	90
BP	GO:0030449	58/182	115/18862	1.05E-88	1.11E-86	9.87E-87	58
BP	GO:0002920	60/182	138/18862	9.55E-87	9.39E-85	8.35E-85	60
BP	GO:0006910	53/182	98/18862	4.82E-83	4.44E-81	3.95E-81	53
BP	GO:0002433	57/182	139/18862	2.18E-80	1.79E-78	1.59E-78	57
BP	GO:0038096	57/182	139/18862	2.18E-80	1.79E-78	1.59E-78	57
BP	GO:0038094	57/182	140/18862	3.65E-80	2.84E-78	2.52E-78	57
BP	GO:0050853	56/182	134/18862	1.65E-79	1.22E-77	1.08E-77	56
BP	GO:0002431	57/182	145/18862	4.50E-79	3.16E-77	2.81E-77	57
BP	GO:0050871	56/182	150/18862	4.43E-76	2.97E-74	2.64E-74	56
BP	GO:0006911	53/182	126/18862	2.69E-75	1.72E-73	1.53E-73	53
BP	GO:0099024	53/182	135/18862	2.69E-73	1.66E-71	1.47E-71	53
BP	GO:0050864	58/182	193/18862	2.23E-72	1.32E-70	1.17E-70	58
BP	GO:0010324	53/182	143/18862	1.17E-71	6.64E-70	5.90E-70	53
BP	GO:0038095	53/182	169/18862	4.75E-67	2.60E-65	2.31E-65	53
BP	GO:0038093	57/182	239/18862	1.43E-64	7.52E-63	6.69E-63	57
BP	GO:0042113	62/182	326/18862	7.12E-64	3.62E-62	3.22E-62	62
BP	GO:0051251	62/182	356/18862	2.41E-61	1.18E-59	1.05E-59	62
BP	GO:0008037	54/182	232/18862	2.12E-60	1.01E-58	8.96E-59	54
BP	GO:0002697	65/182	465/18862	5.09E-58	2.34E-56	2.08E-56	65
BP	GO:0002696	62/182	401/18862	5.65E-58	2.53E-56	2.25E-56	62
BP	GO:0006898	58/182	328/18862	1.41E-57	6.12E-56	5.44E-56	58
BP	GO:0050867	62/182	412/18862	3.24E-57	1.37E-55	1.22E-55	62
BP	GO:0050851	56/182	323/18862	5.50E-55	2.25E-53	2.00E-53	56
BP	GO:0042742	57/182	344/18862	7.80E-55	3.11E-53	2.77E-53	57
BP	GO:0019730	9/182	142/18862	9.88E-06	0.000383434	0.000340952	9
BP	GO:0070098	7/182	88/18862	2.28E-05	0.000862396	0.000766848	7
BP	GO:1990868	7/182	97/18862	4.29E-05	0.001543412	0.001372411	7
BP	GO:1990869	7/182	97/18862	4.29E-05	0.001543412	0.001372411	7
BP	GO:0045625	3/182	10/18862	0.000100883	0.003542929	0.003150394	3
BP	GO:0031295	5/182	57/18862	0.000220804	0.007480942	0.006652099	5
BP	GO:0050870	9/182	212/18862	0.00022316	0.007480942	0.006652099	9
BP	GO:0045785	13/182	425/18862	0.000256062	0.008334876	0.007411422	13
BP	GO:0031294	5/182	59/18862	0.000259935	0.008334876	0.007411422	5

BP	GO:0019731	5/182	61/18862	0.000304121	0.009544208	0.008486768	5
BP	GO:0022409	10/182	276/18862	0.000359743	0.011054613	0.009829829	10
BP	GO:0042102	6/182	99/18862	0.000396311	0.011929759	0.010608014	6
BP	GO:1903039	9/182	234/18862	0.000460549	0.013586195	0.012080927	9
BP	GO:0030593	6/182	103/18862	0.000489921	0.014169275	0.012599405	6
BP	GO:0045622	4/182	39/18862	0.000529831	0.015028865	0.013363758	4
BP	GO:0045580	7/182	146/18862	0.000545377	0.015177948	0.013496323	7
BP	GO:0045063	3/182	18/18862	0.000648071	0.017701942	0.015740674	3
BP	GO:1903131	12/182	411/18862	0.000666976	0.017887082	0.015905302	12
BP	GO:0070661	10/182	312/18862	0.000928852	0.024465311	0.021754703	10
BP	GO:0061844	5/182	78/18862	0.000945897	0.024477158	0.021765237	5
BP	GO:0001895	5/182	80/18862	0.001060584	0.026601175	0.023653926	5
BP	GO:0030574	4/182	47/18862	0.001082082	0.026601175	0.023653926	4
BP	GO:0097028	4/182	47/18862	0.001082082	0.026601175	0.023653926	4
BP	GO:0034612	10/182	320/18862	0.001124348	0.027187113	0.024174946	10
BP	GO:1990266	6/182	123/18862	0.001242864	0.029141782	0.02591305	6
BP	GO:0042129	7/182	168/18862	0.0012447	0.029141782	0.02591305	7
BP	GO:0070231	4/182	49/18862	0.001266282	0.029183848	0.025950454	4
BP	GO:0071621	6/182	124/18862	0.001295782	0.029404283	0.026146467	6
BP	GO:0050863	10/182	327/18862	0.001321906	0.029542585	0.026269446	10
BP	GO:1903037	10/182	330/18862	0.001414817	0.03114709	0.027696181	10
BP	GO:0043370	4/182	51/18862	0.001471354	0.031915407	0.028379373	4
BP	GO:0033209	7/182	174/18862	0.001523251	0.032461303	0.028864787	7
BP	GO:0003094	3/182	24/18862	0.001540536	0.032461303	0.028864787	3
BP	GO:0045619	7/182	175/18862	0.001574054	0.032590731	0.028979876	7
BP	GO:1902105	9/182	279/18862	0.001591699	0.032590731	0.028979876	9
BP	GO:0030595	8/182	226/18862	0.001612965	0.032590731	0.028979876	8
BP	GO:0046651	9/182	282/18862	0.001712501	0.034134311	0.030352436	9
BP	GO:0097205	3/182	25/18862	0.001738264	0.034185856	0.030398271	3
BP	GO:0032943	9/182	285/18862	0.001840551	0.035721221	0.031763527	9
BP	GO:0050671	6/182	135/18862	0.001998491	0.038282785	0.034041284	6
BP	GO:0032946	6/182	136/18862	0.002074308	0.039225687	0.034879719	6
BP	GO:0002825	3/182	27/18862	0.00217957	0.040185821	0.035733476	3
BP	GO:0033688	3/182	27/18862	0.00217957	0.040185821	0.035733476	3
BP	GO:0071356	9/182	296/18862	0.002377149	0.042784794	0.038044498	9
BP	GO:0042100	5/182	96/18862	0.002383124	0.042784794	0.038044498	5
BP	GO:0070663	8/182	241/18862	0.002407551	0.042784794	0.038044498	8
BP	GO:0030098	10/182	358/18862	0.002565615	0.045050981	0.040059606	10
BP	GO:0042098	7/182	195/18862	0.002896997	0.050271416	0.044701648	7
BP	GO:0034694	3/182	30/18862	0.002961878	0.050296625	0.044724064	3
BP	GO:0060326	9/182	306/18862	0.002966648	0.050296625	0.044724064	9
BP	GO:0007159	10/182	366/18862	0.00300519	0.050371089	0.044790278	10
BP	GO:0071887	5/182	102/18862	0.003100677	0.05127399	0.045593143	5
BP	GO:0070665	6/182	148/18862	0.003163344	0.05127399	0.045593143	6
BP	GO:0097530	6/182	148/18862	0.003163344	0.05127399	0.045593143	6
BP	GO:0007204	9/182	310/18862	0.003232522	0.051825768	0.046083788	9
BP	GO:0050777	6/182	150/18862	0.003379806	0.052712379	0.046872167	6
BP	GO:0042093	4/182	64/18862	0.003395035	0.052712379	0.046872167	4
BP	GO:0048247	4/182	64/18862	0.003395035	0.052712379	0.046872167	4

BP	GO:0022407	11/182	437/18862	0.003534615	0.054251836	0.048241062	11
BP	GO:0033687	3/182	32/18862	0.003567748	0.054251836	0.048241062	3
CC	GO:0019814	132/182	167/19520	1.8301E-261	1.9399E-259	1.9265E-259	132
CC	GO:0042571	54/182	77/19520	7.98E-95	4.23E-93	4.20E-93	54
CC	GO:0009897	66/182	402/19520	9.72E-65	3.44E-63	3.41E-63	66
CC	GO:0072562	29/182	146/19520	1.74E-30	4.61E-29	4.58E-29	29
MF	GO:0003823	83/132	165/18337	7.17E-145	1.10E-142	9.35E-143	83
MF	GO:0034987	53/132	79/18337	6.92E-99	5.30E-97	4.52E-97	53
MF	GO:0005125	12/132	235/18337	1.33E-07	6.81E-06	5.81E-06	12
MF	GO:0008009	6/132	49/18337	1.35E-06	5.15E-05	4.39E-05	6
MF	GO:0005126	11/132	270/18337	4.13E-06	0.000126407	0.000107839	11
MF	GO:0045236	4/132	18/18337	7.26E-06	0.000185121	0.000157929	4
MF	GO:0042379	6/132	69/18337	1.03E-05	0.000210702	0.000179753	6
MF	GO:0048018	14/132	486/18337	1.10E-05	0.000210702	0.000179753	14
MF	GO:0030546	14/132	492/18337	1.26E-05	0.000214924	0.000183354	14
MF	GO:0019955	6/132	136/18337	0.000454249	0.006950009	0.005929145	6
MF	GO:0001664	8/132	289/18337	0.001179002	0.016398841	0.013990067	8
MF	GO:0005164	3/132	31/18337	0.001414288	0.018032167	0.015383479	3
MF	GO:0016175	2/132	11/18337	0.002710796	0.031903982	0.027217708	2
MF	GO:0048020	3/132	46/18337	0.004415674	0.048257012	0.041168693	3
MF	GO:0032813	3/132	49/18337	0.005276101	0.053816228	0.045911333	3
MF	GO:0050664	2/132	16/18337	0.005776835	0.055240981	0.047126809	2
MF	GO:0005539	6/132	228/18337	0.006181965	0.055637682	0.047465239	6
MF	GO:0008201	5/132	164/18337	0.006696695	0.056921903	0.048560826	5
KEGG	hsa04060	17/37	295/8102	1.82E-15	2.27E-13	2.01E-13	17
KEGG	hsa04061	9/37	100/8102	4.31E-10	2.70E-08	2.38E-08	9
KEGG	hsa04062	8/37	192/8102	1.84E-06	7.67E-05	6.78E-05	8
KEGG	hsa05340	4/37	38/8102	2.43E-05	0.00076	0.000672	4
KEGG	hsa04672	3/37	49/8102	0.001398	0.03495	0.030903	3

Table S4. Correlation between IRGPI subgroups and clinicopathological factors in the TCGA cohort

Id	futime	fustat	Age	Gender	Stage	T	M	N
TCGA-J2-8192	739	0	65	FEMALE	Stage IIA	T2a	MX	N1
TCGA-91-8499	36	0	76	FEMALE	Stage IA	T1b	MX	N0
TCGA-53-7624	1043	1	40	FEMALE	Stage IV	T2	M1	N0
TCGA-55-6986	3261	0	74	FEMALE	Stage IB	T2	M0	N0
TCGA-38-4632	1357	1	42	MALE	Stage IV	T2	M1	N1
TCGA-78-7146	173	1	71	FEMALE	Stage IIIA	T2	M0	N2
TCGA-NJ-A4YG	2261	0	65	MALE	Stage IB	T2	M0	N0
TCGA-86-8279	949	0	46	MALE	Stage IIA	T2a	M0	N1
TCGA-50-6591	119	1	63	FEMALE	Stage IV	T2	M1	N0
TCGA-50-5939	460	1	85	MALE	Stage IB	T2	M0	N0
TCGA-62-8402	1498	1	73	FEMALE	Stage IIIA	T2	M0	N2
TCGA-49-4506	999	1	68	FEMALE	Stage IIB	T2	M0	N1
TCGA-91-6847	842	0	62	FEMALE	Stage IB	T2	MX	N0
TCGA-97-8547	657	0	78	FEMALE	Stage IIIA	T2a	MX	N2
TCGA-97-7546	1285	0	76	FEMALE	Stage IA	T1	MX	N0
TCGA-73-4659	711	1	66	MALE	Stage IIIA	T2	M0	N2
TCGA-55-A48Y	630	0	69	MALE	Stage IIA	T2b	M0	N0
TCGA-50-5049	3094	0	70	MALE	Stage IA	T2	M0	N0
TCGA-44-3396	1130	0	74	FEMALE	Stage IIIA	T2	M0	N2
TCGA-05-4405	610	0	74	FEMALE	Stage IB	T2	M0	N0
TCGA-78-8662	3361	1	53	FEMALE	Stage IB	T2	M0	N0
TCGA-50-8460	829	0	74	MALE	Stage IA	T1a	M0	N0
TCGA-55-8087	462	0	59	FEMALE	Stage IB	T2a	MX	N0
TCGA-MP-A4TA	950	1	75	FEMALE	Stage IA	T1	M0	N0
TCGA-55-7815	773	0	76	MALE	Stage IB	T2a	MX	N0
TCGA-55-8096	719	1	67	FEMALE	Stage IB	T2a	MX	N0
TCGA-NJ-A55R	603	0	67	MALE	Stage IA	T1b	MX	N0
TCGA-91-7771	492	0	62	MALE	Stage IIB	T3	MX	N0
TCGA-69-7760	202	0	73	MALE	Stage IIB	T3	M0	N0
TCGA-44-5644	863	0	51	FEMALE	Stage IB	T2a	unknow	N0
TCGA-69-7973	230	0	42	FEMALE	Stage IB	T2a	M0	N0
TCGA-44-6145	595	0	62	FEMALE	Stage IA	T1	M0	N0
TCGA-64-1676	1728	0	58	MALE	Stage IA	T1a	M0	N0
TCGA-97-7553	1870	0	58	FEMALE	Stage IA	T1	MX	N0
TCGA-55-8511	552	0	73	FEMALE	Stage IB	T2a	MX	N0
TCGA-MP-A4TF	336	1	58	FEMALE	Stage IIA	T2b	M0	N0
TCGA-55-8204	515	0	87	FEMALE	Stage IB	T2a	MX	N0
TCGA-55-8616	48	0	58	FEMALE	Stage IB	T2a	M0	N0
TCGA-86-8281	0	0	75	MALE	Stage IA	T1	M0	NX
TCGA-55-7574	995	1	64	FEMALE	Stage IB	T2a	M0	N0
TCGA-L9-A743	664	0	56	MALE	Stage IIA	T2a	M0	N1
TCGA-73-4670	131	0	69	FEMALE	Stage IV	T2	M1	N0
TCGA-50-5066	1442	0	72	MALE	Stage IB	T2	M0	N0
TCGA-75-5126		0	unknow	FEMALE	Stage IIIA	T3	M0	N2

TCGA-64-5779	864	0	61	MALE	Stage IIIA	T2	M0	N2
TCGA-55-6543	435	0	60	FEMALE	Stage IA	T1b	MX	N0
TCGA-55-A48Z	651	0	60	FEMALE	Stage IIIB	T1a	MX	N3
TCGA-86-8278	944	0	63	FEMALE	Stage IIB	T2	M0	N1
TCGA-L4-A4E5	578	0	48	FEMALE	Stage I	T1	M0	N0
TCGA-49-4505	428	1	61	FEMALE	Stage IIB	T2	M0	N1
TCGA-69-7980	411	0	70	FEMALE	Stage I	T1b	M0	N0
TCGA-55-7725	442	0	68	FEMALE	Stage IA	T1a	MX	N0
TCGA-78-7162	3169	1	75	MALE	Stage IA	T1	M0	N0
TCGA-80-5608	2832	0	unknow	FEMALE	Stage IA	T1	M0	N0
TCGA-78-7159	1974	0	60	FEMALE	Stage IA	T1	M0	NX
TCGA-MP-A4TI	429	1	72	MALE	Stage IIA	T2a	M0	N1
TCGA-78-7542	321	1	56	MALE	Stage IB	T2	M0	N0
TCGA-91-6836	417	0	52	FEMALE	Stage IB	T2	MX	N0
TCGA-78-7537	1622	1	72	MALE	Stage IB	T2	M0	N0
TCGA-97-7941	484	0	72	FEMALE	Stage IA	T1b	MX	N0
TCGA-MP-A4TJ	339	1	62	FEMALE	Stage IA	T1	M0	N0
TCGA-78-8660	321	1	69	MALE	Stage IIB	T2	M0	N1
TCGA-49-AARQ	6732	0	41	FEMALE	Stage I	T2	MX	N0
TCGA-05-4415	91	1	57	MALE	Stage IIIB	T4	M0	N2
TCGA-86-A4JF	737	1	56	MALE	Stage IIB	T3	M0	N0
TCGA-86-7701	947	0	66	MALE	Stage IV	T2	M1	N0
TCGA-44-3918	1036	0	60	FEMALE	Stage IA	T1	M0	N0
TCGA-50-6597	1268	1	79	FEMALE	Stage IB	T2	M0	N0
TCGA-NJ-A4YI	4	1	87	FEMALE	Stage IIIA	T2	M0	N2
TCGA-86-8280	701	0	54	FEMALE	Stage IIA	T2b	M0	N0
TCGA-44-2666	97	1	43	MALE	Stage IB	T2	M0	N0
TCGA-78-7154	593	1	72	MALE	Stage IIIA	T3	M0	N2
TCGA-55-A491	626	0	81	FEMALE	Stage IA	T1b	MX	N0
TCGA-05-4390	1126	0	58	FEMALE	Stage IB	T2	M0	N0
TCGA-05-4382	607	0	68	MALE	Stage IB	T2	M0	N0
TCGA-55-8206	888	0	56	MALE	Stage IA	T1b	M0	N0
TCGA-55-7576	670	0	54	MALE	Stage IB	T2a	M0	N0
TCGA-55-8506	11	0	62	FEMALE	Stage IIB	T3	MX	N0
TCGA-50-5930	282	1	47	MALE	Stage IIIA	T2	M0	N2
TCGA-05-4403	578	0	76	MALE	Stage IB	T2	M0	N0
TCGA-55-7911	537	0	70	FEMALE	Stage IA	T1a	MX	N0
TCGA-78-7143	4961	1	62	FEMALE	Stage IB	T2	M0	N0
TCGA-62-A46P	594	1	65	MALE	Stage IB	T2	M0	N0
TCGA-95-8494	84	0	67	MALE	Stage IIA	T2a	M0	N1
TCGA-35-5375	264	0	61	MALE	Stage IIIA	T2	M0	N2
TCGA-78-7163	7248	0	60	MALE	Stage IB	T2	M0	N0
TCGA-05-4417	455	0	51	FEMALE	Stage IB	T2	M0	N0
TCGA-91-6828	323	0	70	MALE	Stage IA	T1a	M0	N0
TCGA-44-A47A	466	0	78	FEMALE	Stage IB	T2a	MX	N0
TCGA-L9-A443	193	1	63	FEMALE	Stage IA	T1a	MX	N0
TCGA-86-A4D0	116	1	48	MALE	Stage IIA	T2b	M0	N0
TCGA-44-A479	486	0	73	FEMALE	Stage IB	T2	MX	N0
TCGA-97-A4LX	614	0	81	MALE	Stage IB	T2a	M0	N0

TCGA-49-4486	2318	1	72	MALE	Stage IA	T1	M0	N0
TCGA-50-5932	1235	1	75	MALE	Stage IIB	T2	M0	N1
TCGA-86-8073	740	0	58	MALE	Stage IB	T2a	M0	N0
TCGA-NJ-A55O	13	0	56	FEMALE	Stage IIA	T1b	M0	N1
TCGA-55-A494	481	0	61	FEMALE	Stage IB	T2a	MX	N0
TCGA-69-7765	165	0	56	MALE	unknow	T4	MX	N0
TCGA-86-8672	19	1	59	MALE	Stage IIB	T3	M0	N0
TCGA-49-4488	869	1	74	FEMALE	Stage IA	T1	MX	N0
TCGA-55-7903	567	0	64	MALE	Stage IA	T1b	MX	N0
TCGA-MP-A4T2	1136	1	71	MALE	Stage IA	T1	M0	N0
TCGA-49-4487	855	1	72	FEMALE	Stage IA	T1	M0	N0
TCGA-99-8033	656	1	74	FEMALE	Stage IV	TX	M1	NX
TCGA-50-5068	1499	1	59	FEMALE	Stage IIB	T2	MX	N1
TCGA-55-6978	176	1	81	MALE	Stage IIA	T2b	MX	N0
TCGA-91-A4BC	44	0	59	MALE	Stage IIA	T2b	MX	N0
TCGA-49-4490	385	1	45	FEMALE	Stage IIIA	T3	M0	N2
TCGA-86-7955	1072	0	62	MALE	Stage IB	T2a	M0	N0
TCGA-05-4430	761	0	59	FEMALE	Stage IB	T2	M0	N0
TCGA-44-3398	1163	0	77	FEMALE	Stage IA	T1b	M0	N0
TCGA-49-4507	268	1	73	FEMALE	Stage IIIA	T3	M0	N1
TCGA-97-A4M5	634	0	83	MALE	Stage IA	T1b	M0	N0
TCGA-49-6745	522	0	82	MALE	Stage IIIA	T2a	M0	N2
TCGA-86-8674	806	0	50	MALE	Stage IIA	T2a	M0	N1
TCGA-05-4384	426	0	66	MALE	Stage IIIA	T2	M0	N2
TCGA-69-7979	408	0	71	FEMALE	Stage IB	T2a	MX	N0
TCGA-78-7147	586	1	67	FEMALE	Stage IIB	T2	M0	N1
TCGA-93-7347	683	0	76	FEMALE	Stage IA	T1a	MX	N0
TCGA-49-4514	1700	0	79	FEMALE	Stage IA	T1	M0	N0
TCGA-49-6742	488	1	70	MALE	Stage IIA	T2a	M0	N1
TCGA-MN-A4N1	827	0	60	MALE	Stage IIA	T2a	M0	N1
TCGA-J2-A4AD	550	1	61	FEMALE	Stage IA	T1a	MX	N0
TCGA-78-7160	697	1	61	MALE	Stage IV	T4	M1	N2
TCGA-05-4397	731	1	65	MALE	Stage IIB	T2	M0	N1
TCGA-91-8497	434	1	75	FEMALE	Stage IA	T1a	MX	N0
TCGA-55-7283	609	0	76	FEMALE	Stage IIIA	T3	MX	N2
TCGA-05-4244	0	0	70	MALE	Stage IV	T2	M1	N2
TCGA-91-6848	224	0	59	MALE	Stage IIIA	T2	MX	N2
TCGA-MP-A4TD	307	1	71	MALE	Stage IIIA	T2	M0	N2
TCGA-55-8620	375	1	60	MALE	Stage IV	T1a	M1b	N1
TCGA-97-7547	1965	0	67	FEMALE	Stage IB	T2	MX	N0
TCGA-44-6777	987	1	85	FEMALE	Stage IB	T2	MX	NX
TCGA-38-4629	864	1	68	MALE	Stage IIB	T3	M0	N0
TCGA-55-8097	476	0	60	FEMALE	Stage IA	T1a	MX	N0
TCGA-97-8179	435	0	72	MALE	Stage IA	T1a	M0	N0
TCGA-78-8648	1209	1	58	FEMALE	Stage IIB	T3	M0	N0
TCGA-75-5125	2027	1	unknow	MALE	Stage IIB	T2	M0	N1
TCGA-95-7944	377	0	71	MALE	Stage IA	T1a	M0	N0
TCGA-44-6147	845	0	67	FEMALE	Stage IA	T1b	M0	NX
TCGA-55-7727	119	0	70	MALE	Stage IIIA	T1a	MX	N2

TCGA-95-7039	1272	0	54	FEMALE	Stage IIB	T3	MX	N0
TCGA-55-6975	118	1	61	MALE	Stage IIB	T2	M0	N1
TCGA-05-4433	730	0	82	MALE	Stage IB	T2	M0	N0
TCGA-05-4427	791	0	65	FEMALE	Stage IIB	T2	M0	N1
TCGA-86-7711	1046	1	70	MALE	Stage IIA	T2a	M0	N1
TCGA-69-7761	186	0	84	MALE	Stage IB	T2a	MX	N0
TCGA-44-2661	1159	0	69	FEMALE	Stage IA	T1	M0	N0
TCGA-55-6981	1379	1	53	FEMALE	Stage IIIA	T1	M0	N2
TCGA-MP-A4TH	741	0	70	FEMALE	Stage IA	T1a	M0	N0
TCGA-55-8299	469	1	61	FEMALE	Stage IA	T1b	MX	N0
TCGA-L4-A4E6	435	0	67	MALE	Stage IA	T1	M0	N0
TCGA-44-A47F	337	0	74	MALE	Stage IIB	T2b	M0	N1
TCGA-55-7913	561	1	61	FEMALE	Stage IA	T1b	MX	N0
TCGA-38-4628	1492	1	65	FEMALE	Stage IIB	T2	M0	N1
TCGA-67-6215	174	0	52	FEMALE	Stage IB	T2a	M0	N0
TCGA-NJ-A7XG	617	0	49	MALE	Stage IIIA	T4	M0	N1
TCGA-67-3772	573	0	82	FEMALE	Stage IB	T2	M0	N0
TCGA-S2-AA1A	513	0	68	FEMALE	Stage IA	T1b	M0	N0
TCGA-49-6767	677	0	46	FEMALE	Stage IIB	T3	MX	N0
TCGA-55-6980	2109	0	56	MALE	Stage IA	T1	M0	N0
TCGA-44-6144	723	0	58	MALE	Stage IA	T1a	M0	N0
TCGA-44-5645	852	0	61	FEMALE	Stage IA	T1	unknow	NX
TCGA-MP-A4T7	167	1	75	FEMALE	Stage IV	T2	M1	N0
TCGA-62-A46V	2199	0	78	FEMALE	Stage IB	T2	M0	N0
TCGA-44-6774	658	0	56	FEMALE	Stage IIIA	T1	M0	N2
TCGA-55-8621	515	0	75	FEMALE	Stage IA	T1a	MX	N0
TCGA-05-4396	303	1	76	MALE	Stage IIIB	T4	M0	N1
TCGA-55-7573	487	0	72	FEMALE	Stage IA	T1b	MX	N0
TCGA-49-AARR	4992	0	68	MALE	Stage IA	T1	MX	N0
TCGA-97-A4M3	540	0	69	FEMALE	Stage IA	T1b	M0	N0
TCGA-49-AARO	3759	0	39	FEMALE	Stage IA	T1a	MX	N0
TCGA-91-6830	60	0	65	FEMALE	Stage IIA	T1	MX	N1
TCGA-38-6178	448	0	70	FEMALE	Stage IIIA	T2b	unknow	N2
TCGA-55-8091	600	0	74	MALE	Stage IB	T2	MX	N0
TCGA-55-8507	418	0	53	MALE	Stage IA	T1a	MX	N0
TCGA-75-7030		0	unknow	MALE	Stage IIB	T3	M0	N0
TCGA-86-A456	896	0	78	FEMALE	Stage IA	T1a	M0	N0
TCGA-55-A492	596	0	70	FEMALE	Stage IA	T1a	MX	N0
TCGA-64-1678	1189	0	70	FEMALE	unknow	T2b	M0	N0
TCGA-62-8399	2696	0	62	MALE	Stage IIIA	T2	M0	N2
TCGA-55-6985	1233	0	58	FEMALE	Stage IB	T2	MX	N0
TCGA-44-8120	260	0	58	MALE	Stage IB	T2a	M0	N0
TCGA-50-5935	653	1	86	FEMALE	Stage IA	T1	M0	N0
TCGA-50-5044	624	1	72	FEMALE	Stage IIIB	T4	M0	N1
TCGA-55-8085	904	0	64	MALE	Stage IA	T1b	M0	N0
TCGA-L9-A444	307	0	60	FEMALE	Stage IA	T1a	MX	N0
TCGA-55-8615	446	0	67	MALE	Stage IIIA	T3	MX	N2
TCGA-97-A4M0	652	0	60	FEMALE	Stage IB	T2a	M0	N0
TCGA-95-7562	87	1	71	MALE	Stage IIA	T2a	M0	N1

TCGA-38-4626	3674	0	57	FEMALE	unknow	T2b	M0	N0
TCGA-67-6216	141	0	57	FEMALE	Stage IA	T1a	M0	N0
TCGA-75-6203		0	unknow	FEMALE	Stage IIIA	T2	M0	N2
TCGA-67-3773	427	0	84	FEMALE	Stage IB	T2	M0	N0
TCGA-78-7161	291	1	69	FEMALE	Stage IIB	T3	M0	N0
TCGA-NJ-A4YQ	1432	0	69	FEMALE	Stage IA	T1b	M0	N0
TCGA-50-5072	250	1	74	MALE	Stage IIIA	T2	M0	N2
TCGA-50-5931	434	1	75	FEMALE	Stage IB	T2	M0	N0
TCGA-49-AARN	1135	1	56	FEMALE	Stage IA	T1	MX	N0
TCGA-64-1681	1167	1	61	FEMALE	Stage IA	T1	M0	N0
TCGA-99-7458	747	0	74	FEMALE	Stage IIIA	T4	M0	N0
TCGA-35-4122	225	0	69	MALE	Stage IA	T1	M0	N0
TCGA-55-7728	704	0	64	FEMALE	Stage IB	T2a	MX	N0
TCGA-44-7672	719	0	52	FEMALE	Stage IA	T1b	M0	N0
TCGA-44-7662	218	0	61	MALE	Stage IB	T2a	MX	N0
TCGA-86-7714	625	1	61	FEMALE	Stage IIIA	T1b	M0	N2
TCGA-97-7552	1932	0	70	MALE	Stage IB	T2	MX	N0
TCGA-44-5643	1013	0	53	MALE	Stage IIIA	T2b	M0	N2
TCGA-75-7025	3305	0	unknow	MALE	Stage IB	T2	M0	N0
TCGA-78-8655	2360	0	77	FEMALE	Stage IA	T1	M0	N0
TCGA-97-7937	564	0	65	MALE	Stage IB	T2a	MX	N0
TCGA-64-1679	2488	0	58	FEMALE	Stage IIIA	T1	M0	N2
TCGA-86-A4P8	805	0	59	FEMALE	Stage IIIA	T1b	MX	N2
TCGA-55-8205	599	0	76	FEMALE	Stage IIA	T2b	M0	N0
TCGA-44-2668	761	1	51	MALE	Stage IB	T2	M0	N0
TCGA-NJ-A4YP	50	0	52	MALE	Stage IB	T2a	M0	N0
TCGA-49-4494	1081	1	77	MALE	Stage IIIA	T3	M0	N2
TCGA-49-AAR9	260	1	61	MALE	Stage IIB	T3	MX	N0
TCGA-38-4625	2973	0	66	FEMALE	Stage IB	T2a	M0	N0
TCGA-44-7661	557	1	69	FEMALE	Stage IB	T2a	M0	N0
TCGA-55-7726	652	0	72	FEMALE	Stage IA	T1b	MX	N0
TCGA-75-6205		1	unknow	FEMALE	Stage IB	T2a	M0	N0
TCGA-55-6972	1632	1	72	MALE	Stage IB	T2	M0	N0
TCGA-86-8359	444	1	52	MALE	Stage IIIA	T3	M0	N2
TCGA-50-6673	22	1	84	FEMALE	Stage I	T1	M0	N0
TCGA-44-3917	1183	0	33	FEMALE	Stage IB	T2	M0	N0
TCGA-95-7567	568	0	61	MALE	Stage IIB	T2b	M0	N1
TCGA-97-8176	468	1	63	MALE	Stage IIIA	T3	M0	N1
TCGA-64-1677	628	1	77	FEMALE	Stage IIIA	T2	M0	N2
TCGA-50-5942	1847	0	67	FEMALE	Stage IA	T1	M0	N0
TCGA-38-4627	1147	1	64	FEMALE	Stage IIA	T1b	M0	N1
TCGA-86-8055	124	1	79	MALE	Stage IIA	T2a	M0	N1
TCGA-55-A4DF	440	1	88	MALE	Stage IA	T1b	MX	N0
TCGA-44-2664	1251	0	66	FEMALE	Stage IA	T1	M0	N0
TCGA-44-A47B	287	0	79	MALE	Stage IB	T2a	M0	N0
TCGA-62-A46R	1725	1	54	FEMALE	Stage IB	T2	M0	N0
TCGA-71-8520	210	1	60	FEMALE	Stage IB	T2	M0	N0
TCGA-80-5611	2595	0	unknow	MALE	Stage IB	T2	M0	N0
TCGA-05-4250	121	1	79	FEMALE	Stage IIIA	T3	M0	N1

TCGA-78-7158	179	1	59	FEMALE	Stage IIIB	T4	M0	N2
TCGA-53-7813	424	0	51	FEMALE	Stage IIIB	T4	M0	N0
TCGA-55-6970	464	1	67	FEMALE	Stage IIIA	T2	MX	N2
TCGA-73-A9RS	340	1	41	MALE	Stage IIB	T3	M0	N0
TCGA-69-7764	414	0	75	MALE	Stage IA	T1b	M0	N0
TCGA-55-8094	541	0	51	MALE	Stage IV	T2b	M1b	N0
TCGA-95-A4VN	553	0	62	FEMALE	Stage IIA	T2a	M0	N1
TCGA-69-8254	409	0	85	MALE	unknow	T2b	unknow	unknow
TCGA-49-AAR3	1893	0	69	MALE	Stage IIB	T2	MX	N1
TCGA-49-4510	896	1	51	FEMALE	Stage IIB	T2	M0	N1
TCGA-55-7281	872	0	70	FEMALE	Stage IA	T1b	M0	N0
TCGA-69-7763	690	0	69	MALE	Stage IA	T1b	M0	N0
TCGA-78-7148	626	1	71	MALE	Stage IIB	T2	M0	N1
TCGA-97-A4M7	629	0	74	MALE	Stage IA	T1b	M0	N0
TCGA-86-8668	423	0	61	FEMALE	Stage IA	T1b	M0	N0
TCGA-49-AAQV	677	1	63	FEMALE	Stage II	T1	MX	N1
TCGA-71-6725	256	0	48	FEMALE	Stage IB	T2	M0	N0
TCGA-55-7570	824	0	60	MALE	Stage IA	T1a	MX	N0
TCGA-05-4402	244	1	57	FEMALE	Stage IV	T2	M1	NX
TCGA-67-4679	448	0	69	MALE	unknow	T3	M0	N0
TCGA-05-4422	365	0	68	MALE	Stage IB	T2	M0	N0
TCGA-55-7227	952	1	77	MALE	Stage IIIA	T3	MX	N1
TCGA-55-1594	1178	0	68	MALE	Stage IIIA	T2	M0	N2
TCGA-49-AAR4	879	1	51	MALE	Stage IIIA	T2	MX	N2
TCGA-62-A46Y	414	1	70	FEMALE	Stage IIIA	T2	M0	N2
TCGA-86-8054	1148	0	61	MALE	Stage IIB	T2b	M0	N1
TCGA-62-A46S	1653	1	73	MALE	Stage IB	T2	M0	N0
TCGA-97-8177	499	0	59	FEMALE	Stage IB	T2a	M0	N0
TCGA-05-5425	882	0	68	MALE	Stage IIB	T2b	M0	N1
TCGA-49-6744	1683	0	64	FEMALE	Stage IIA	T2a	MX	N1
TCGA-44-6778	1864	0	59	MALE	Stage IA	T1	MX	N0
TCGA-75-6206	2590	0	unknow	MALE	Stage IB	T2	M0	N0
TCGA-80-5607		0	unknow	FEMALE	Stage IIB	T2	M0	N1
TCGA-NJ-A4YF	2161	0	50	FEMALE	Stage IA	T1	M0	N0
TCGA-78-7220	807	1	53	FEMALE	Stage IIIA	T2	M0	N2
TCGA-50-6595	189	1	74	FEMALE	Stage IIIA	T2	M0	N2
TCGA-78-7167	2681	1	77	MALE	Stage IV	T2	M1	N0
TCGA-95-7948	476	0	42	FEMALE	Stage IB	T2a	M0	N0
TCGA-75-6207		1	unknow	MALE	Stage IIIA	T2	M0	N2
TCGA-05-4389	1369	0	70	MALE	Stage IA	T1	M0	N0
TCGA-05-5429	275	1	60	MALE	Stage IIIA	T3	M0	N2
TCGA-55-7907	343	1	77	MALE	Stage IIA	T2a	MX	N1
TCGA-67-3776	61	0	57	FEMALE	Stage IIB	T2	M0	N1
TCGA-73-4677	38	1	74	MALE	unknow	T2a	M0	N0
TCGA-97-8172	545	0	75	FEMALE	Stage IB	T2a	M0	N0
TCGA-75-5147	1333	0	unknow	FEMALE	Stage IB	T2	M0	N0
TCGA-50-5045	2174	1	57	FEMALE	unknow	T2	M0	N1
TCGA-44-A4SU	409	1	67	FEMALE	Stage IA	T1a	MX	N0
TCGA-55-8301	534	0	58	MALE	Stage IB	T2a	MX	N0

TCGA-55-1596	2065	0	55	MALE	Stage IIB	T2	M0	N1
TCGA-55-A4DG	608	0	71	MALE	Stage IA	T1b	MX	N0
TCGA-49-AARE	1229	1	51	FEMALE	Stage IA	T1	MX	N0
TCGA-50-6592	777	1	71	FEMALE	Stage IB	T2	M0	N0
TCGA-J2-A4AG	988	0	66	FEMALE	Stage IA	T1b	MX	N0
TCGA-67-3771	610	0	77	FEMALE	Stage IA	T1	M0	N0
TCGA-73-4662	2515	0	65	FEMALE	Stage IA	T1	M0	N0
TCGA-05-5420	457	0	67	MALE	Stage IIIA	T2	M0	N2
TCGA-86-8056	139	0	63	FEMALE	Stage IIIA	T4	M0	N0
TCGA-J2-A4AE	1079	0	77	FEMALE	Stage IA	T1a	MX	N0
TCGA-44-7669	574	1	59	MALE	Stage IIA	T1b	MX	N1
TCGA-44-8119	285	0	73	MALE	Stage IIB	T3	M0	N0
TCGA-50-5941	1474	0	55	FEMALE	Stage IIIA	T2a	M0	N2
TCGA-64-5781	1559	0	55	FEMALE	Stage IB	T2	M0	N0
TCGA-73-4666	800	0	52	FEMALE	Stage IV	T1	M1	N0
TCGA-L9-A8F4	476	0	64	FEMALE	Stage IB	T2a	MX	N0
TCGA-69-8253	426	0	59	FEMALE	Stage IIA	T1a	MX	N1
TCGA-97-8552	626	0	55	FEMALE	Stage I	T1a	MX	N0
TCGA-44-6776	2616	0	60	FEMALE	Stage IA	T1	MX	N0
TCGA-L9-A5IP	58	1	40	FEMALE	Stage IV	T3	M1b	N2
TCGA-44-6148	704	0	60	MALE	Stage IA	T1b	M0	N0
TCGA-38-4630	1073	1	75	FEMALE	Stage IB	T2	M0	N0
TCGA-95-7947	477	0	67	MALE	Stage IA	T1a	M0	N0
TCGA-4B-A93V	300	1	52	FEMALE	Stage IA	T1b	M0	N0
TCGA-86-8076	993	0	42	MALE	Stage IA	T1	M0	N0
TCGA-05-4410	0	0	62	MALE	Stage IB	T2	M0	N0
TCGA-62-A472	910	0	70	MALE	Stage IIB	T3	M0	N0
TCGA-55-6968	1293	1	61	MALE	Stage IV	T1	M1	N0
TCGA-55-8514	520	0	70	FEMALE	Stage IB	T2a	MX	N0
TCGA-75-7031		0	unknow	FEMALE	Stage IB	T2	M0	N0
TCGA-62-8397	1289	0	70	FEMALE	Stage IIB	T3	M0	N0
TCGA-86-7953	997	0	69	FEMALE	Stage IA	T1b	M0	N0
TCGA-75-5146	2368	0	unknow	MALE	Stage IB	T2	M0	N0
TCGA-44-A47G	351	0	73	FEMALE	Stage IA	T1	M0	N0
TCGA-86-8671	839	0	72	FEMALE	Stage IIB	T2b	M0	N1
TCGA-86-8358	653	0	44	MALE	Stage IB	T2a	M0	N0
TCGA-93-A4JN	718	0	71	MALE	Stage IV	T2a	M1a	N0
TCGA-05-4432	761	0	66	MALE	Stage IIB	T2	M0	N1
TCGA-86-8669	938	0	64	MALE	Stage IA	T1b	M0	N0
TCGA-95-A4VK	651	0	74	FEMALE	Stage IIIA	T2b	M0	N2
TCGA-44-7670	882	0	47	FEMALE	Stage IIA	T1b	M0	N1
TCGA-73-7499	1531	1	81	FEMALE	Stage IB	T2a	M0	N0
TCGA-62-A46U	2067	0	71	FEMALE	Stage IIB	T2	M0	N1
TCGA-55-8508	617	0	60	FEMALE	Stage IIA	T2a	MX	N1
TCGA-44-2657	1351	0	74	FEMALE	Stage IB	T2	M0	NX
TCGA-97-8171	568	0	81	MALE	Stage IV	T2a	M1a	N2
TCGA-50-5944	1750	0	69	FEMALE	Stage IA	T1	M0	N0
TCGA-78-7633	1528	1	67	MALE	Stage IB	T2	M0	N0
TCGA-64-5775	62	1	71	MALE	Stage IIIA	T4	M0	N0

TCGA-J2-8194	724	0	69	FEMALE	Stage IIB	T3	MX	N0
TCGA-78-7539	791	0	75	FEMALE	Stage IIA	T2b	M0	N0
TCGA-91-6829	1258	1	78	MALE	Stage IB	T2	MX	N0
TCGA-99-8028	1118	0	50	FEMALE	Stage IA	T1a	M0	N0
TCGA-78-7153	3635	0	65	FEMALE	Stage IB	T2	M0	N0
TCGA-L9-A50W	442	1	75	MALE	Stage IIA	T1b	MX	N1
TCGA-50-6594	370	1	79	FEMALE	Stage IIIA	T3	M0	N2
TCGA-50-5936	257	1	58	MALE	Stage IIIA	T2	M0	N2
TCGA-05-5428	670	0	57	MALE	Stage IIA	T1b	M0	N1
TCGA-55-5899	930	0	58	MALE	unknow	T1a	M0	N1
TCGA-44-7659	691	0	70	MALE	Stage IA	T1b	MX	N0
TCGA-55-7816	468	1	49	FEMALE	Stage IV	TX	MX	NX
TCGA-05-4425	669	0	70	FEMALE	Stage IV	T2	M1	N0
TCGA-44-2665	1301	0	55	FEMALE	Stage IIB	T2	M0	N1
TCGA-05-4424	913	0	70	MALE	Stage IIB	T3	M0	N0
TCGA-78-7156	976	1	62	MALE	Stage IV	T4	M1	N1
TCGA-49-4512	905	1	69	FEMALE	Stage IIIA	T2	MX	N2
TCGA-78-7536	244	1	69	MALE	Stage IIIA	T2	M0	N2
TCGA-97-8175	551	0	55	FEMALE	Stage IB	T2a	M0	N0
TCGA-49-4501	1421	1	67	FEMALE	Stage IB	T2	M0	N0
TCGA-53-7626	929	1	76	FEMALE	Stage IIA	T1	M0	N1
TCGA-55-6984	760	1	71	FEMALE	Stage IIB	T2	M0	N1
TCGA-44-2659	1367	0	65	FEMALE	Stage IIB	T1	M0	N1
TCGA-MP-A4SW	1778	1	53	MALE	Stage IIB	T2	M0	N1
TCGA-55-A48X	689	0	63	FEMALE	Stage IIA	T1b	M0	N1
TCGA-55-1592	701	1	65	MALE	Stage IA	T2	M0	N0
TCGA-86-8673	862	0	61	MALE	Stage IB	T2	M0	N0
TCGA-35-4123	182	0	38	MALE	Stage IA	T1	M0	N0
TCGA-78-8640	7062	0	59	MALE	Stage IIA	T1	M0	N1
TCGA-75-7027	3059	0	unknow	MALE	Stage IB	T2	M0	N0
TCGA-99-8032	44	0	61	MALE	Stage IA	T1a	M0	N0
TCGA-49-6761	354	0	68	FEMALE	Stage IIIA	T1	MX	N2
TCGA-MP-A4SY	1501	1	61	MALE	Stage IIB	T2	M0	N1
TCGA-55-A490	99	1	78	MALE	Stage IIA	T2b	MX	N0
TCGA-93-7348	531	0	75	FEMALE	Stage IA	T1a	MX	N0
TCGA-49-AAR0	4765	0	57	MALE	Stage IA	T1	MX	N0
TCGA-93-A4JP	578	0	64	MALE	Stage IV	TX	M1b	NX
TCGA-55-6979	237	1	59	FEMALE	Stage IIB	T2	M0	N1
TCGA-73-7498	1189	0	58	FEMALE	Stage IA	T1b	M0	N0
TCGA-MP-A4T8	161	1	68	MALE	Stage IIIA	T2	M0	N2
TCGA-50-6590	1288	1	72	FEMALE	Stage IB	T2	M0	N0
TCGA-64-5815	866	0	74	MALE	Stage IIB	T2	M0	N1
TCGA-78-7540	1197	1	66	FEMALE	Stage IB	T2	M0	N0
TCGA-55-8510	539	0	55	FEMALE	Stage IB	T2a	MX	N0
TCGA-44-7671	889	0	64	MALE	Stage IB	T2a	M0	N0
TCGA-91-8496	505	0	63	FEMALE	Stage IB	T2a	MX	NX
TCGA-55-8089	702	1	56	MALE	Stage IA	T1a	M0	N0
TCGA-99-AA5R	658	0	70	FEMALE	Stage IA	T1a	M0	N0
TCGA-55-8505	440	0	62	MALE	Stage IIIA	T1a	MX	N2

TCGA-05-5423	151	0	65	MALE	Stage IIB	T2	M0	N1
TCGA-55-8614	536	0	76	MALE	Stage IB	T2a	MX	N0
TCGA-50-5946	1617	0	62	MALE	Stage IA	T1	MX	N0
TCGA-05-4245	730	0	81	MALE	Stage IIIA	T2	M0	N2
TCGA-91-A4BD	603	0	78	MALE	Stage IIA	T1b	MX	N1
TCGA-55-8512	607	1	41	MALE	Stage IV	T1a	M1b	N1
TCGA-NJ-A55A	15	0	76	FEMALE	Stage IB	T2	M0	N0
TCGA-05-4434	457	1	67	FEMALE	Stage IV	T4	M1	N1
TCGA-97-A4M6	568	0	45	FEMALE	Stage IA	T1a	M0	N0
TCGA-86-7954	605	0	68	FEMALE	Stage IB	T2	M0	N0
TCGA-78-7150	666	1	59	MALE	Stage IIB	T2	M0	N1
TCGA-62-A470	1194	1	84	MALE	Stage IB	T2	M0	N0
TCGA-69-8255	129	0	71	MALE	Stage IA	T1a	M0	N0
TCGA-55-8208	674	0	73	FEMALE	Stage IA	T1b	M0	N0
TCGA-50-5051	478	1	42	FEMALE	Stage IIIA	T2	M0	N2
TCGA-55-7910	1040	0	50	FEMALE	Stage IIA	T2b	M0	N0
TCGA-38-7271	800	1	72	FEMALE	Stage IA	T1	M0	N0
TCGA-86-8585	353	0	57	MALE	Stage IB	T2a	M0	N0
TCGA-86-8075	694	1	66	FEMALE	Stage IB	T2	M0	N0
TCGA-73-4676	281	1	45	MALE	Stage IIA	T2a	M0	N1
TCGA-50-5933	2393	1	72	MALE	Stage IIIB	T4	M0	N2
TCGA-73-4675	922	1	59	MALE	Stage IIIA	T3	M0	N1
TCGA-55-6987	2137	0	77	MALE	Stage IA	T1	M0	N0
TCGA-50-5055	1830	1	79	FEMALE	Stage IIA	T1	M0	N1
TCGA-MN-A4N5	84	0	63	MALE	Stage IA	T1a	M0	N0
TCGA-38-A44F	133	0	80	MALE	Stage IB	T2a	M0	N0
TCGA-55-6971	1400	0	59	FEMALE	Stage IB	T2	MX	N0
TCGA-69-7974	184	0	54	FEMALE	Stage IIIA	T2a	MX	N2
TCGA-44-6779	500	1	50	FEMALE	Stage IIB	T2	MX	N1
TCGA-MP-A4TC	74	1	77	MALE	Stage IIIA	T1	M0	N2
TCGA-55-8302	478	0	54	MALE	Stage IB	T2	MX	N0
TCGA-67-3774	385	0	73	FEMALE	Stage IB	T2	M0	N0
TCGA-55-A493	28	0	54	FEMALE	Stage IB	T2a	M0	N0
TCGA-50-7109	308	1	60	MALE	Stage IA	T1	M0	N0
TCGA-55-6982	995	1	79	FEMALE	Stage IIB	T2	M0	N1
TCGA-86-8074	24	0	62	FEMALE	Stage IIA	T1b	M0	N1
TCGA-69-A59K	591	0	60	FEMALE	Stage IIB	T3	M0	N0
TCGA-55-8090	598	1	80	MALE	Stage IA	T1a	M0	N0
TCGA-97-A4M2	624	0	66	MALE	Stage IA	T1a	M0	N0
TCGA-MP-A4T9	1265	1	54	FEMALE	Stage IIIA	T2	MX	N2
TCGA-MP-A4TK	582	1	56	FEMALE	Stage IIB	T2	MX	N1
TCGA-91-6849	35	0	75	FEMALE	Stage IIIA	T2	MX	N2
TCGA-50-6593	336	1	49	FEMALE	Stage IIIA	T1	M0	N2
TCGA-95-7043	503	1	63	FEMALE	Stage IA	T1a	MX	N0
TCGA-55-7724	705	0	76	FEMALE	Stage IB	T2a	MX	N0
TCGA-53-A4EZ	1071	0	63	MALE	Stage IIA	T2a	MX	N1
TCGA-44-7667	1097	0	49	FEMALE	Stage IIB	T3	MX	N0
TCGA-44-8117	385	0	54	FEMALE	Stage IB	T2a	M0	N0
TCGA-55-6983	2823	0	81	MALE	Stage IIB	T2	M0	N1

TCGA-44-6146	728	0	64	MALE	Stage IIB	T3	M0	N0
TCGA-55-8513	791	0	77	FEMALE	Stage IIB	T3	MX	N0
TCGA-MP-A5C7	2248	0	76	FEMALE	Stage IB	T2	M0	N0
TCGA-75-6214	1115	1	unknow	FEMALE	Stage IIIA	T2	M0	N2
TCGA-86-7713	1157	0	70	MALE	Stage IIA	T2b	M0	N0
TCGA-75-6212	1516	1	unknow	FEMALE	Stage IIB	T2	M0	N1
TCGA-62-8394	139	1	65	FEMALE	Stage IIIB	T4	M0	N2
TCGA-64-5778	1305	0	60	MALE	Stage IB	T2	M0	N0
TCGA-97-8174	164	1	67	MALE	Stage IIA	T2b	M0	N0
TCGA-50-8459	1119	0	68	MALE	Stage IIB	T3	M0	N0
TCGA-50-8457	1125	0	63	FEMALE	Stage IA	T1a	M0	N0
TCGA-97-A4M1	601	0	52	FEMALE	Stage IA	T1a	M0	N0
TCGA-78-7166	258	1	84	MALE	Stage IIB	T2	M0	N1
TCGA-83-5908	824	0	59	FEMALE	Stage IA	T1	M0	N0
TCGA-05-4426	791	0	71	MALE	Stage IB	T2	M0	N0
TCGA-55-7995	889	0	73	FEMALE	Stage IA	T1b	M0	N0
TCGA-93-8067	186	0	77	MALE	Stage IB	T2a	MX	N0
TCGA-55-7284	243	1	74	MALE	Stage IIB	T3	MX	N0
TCGA-55-1595	1479	0	74	FEMALE	Stage IA	T1	M0	N0
TCGA-44-2655	1324	0	65	FEMALE	Stage IA	T1	M0	N0
TCGA-69-8453	813	0	77	MALE	Stage IIB	T3	MX	N0
TCGA-91-6835	79	0	81	FEMALE	Stage IA	T1	M0	N0
TCGA-95-8039	830	0	72	MALE	Stage IA	T1	MX	N0
TCGA-97-7938	18	1	76	FEMALE	Stage IA	T1a	MX	N0
TCGA-69-7978	134	0	59	MALE	Stage IIB	T2b	MX	N1
TCGA-55-7994	603	0	81	MALE	Stage IIB	T3	MX	N0
TCGA-55-8619	416	0	72	FEMALE	Stage IIB	T3	MX	N0
TCGA-78-7149	3940	0	71	MALE	Stage IIIB	T4	M0	N0
TCGA-38-4631	354	1	72	FEMALE	Stage IB	T2	M0	N0
TCGA-44-2662	1280	0	65	MALE	Stage IB	T2	M0	N0
TCGA-MP-A4SV	2620	1	67	MALE	Stage IB	T2	M0	N0
TCGA-L9-A7SV	565	0	69	MALE	Stage IIA	T2a	M0	N1
TCGA-93-A4JQ	526	0	49	MALE	Stage IA	T1b	MX	N0
TCGA-35-3615	14	0	57	MALE	Stage IB	T2	M0	N0
TCGA-05-4418	274	1	69	MALE	Stage IIIA	T3	M0	N2
TCGA-05-4249	1523	0	67	MALE	Stage IB	T2	M0	N0
TCGA-MN-A4N4	1175	0	57	MALE	Stage IA	T1b	M0	N0
TCGA-73-4658	1600	1	80	FEMALE	Stage IB	T2	M0	N0
TCGA-44-A4SS	415	0	73	MALE	Stage IA	T1b	M0	N0
TCGA-95-A4VP	605	0	66	FEMALE	Stage IIIA	T2b	M0	N2
TCGA-55-7914	187	1	71	FEMALE	Stage IIA	T1b	MX	N1
TCGA-78-7145	826	1	52	FEMALE	Stage IV	T4	M1	N1
TCGA-55-8092	154	1	75	MALE	Stage IIB	T3	MX	N0
TCGA-MP-A4TE	896	1	56	MALE	Stage IIA	T2b	MX	N0
TCGA-MP-A4T4	2617	1	68	FEMALE	Stage IIB	T2	M0	N1
TCGA-55-8203	547	0	69	FEMALE	Stage IA	T1b	M0	N0
TCGA-55-6712	171	1	71	MALE	Stage IIA	T2a	MX	N1
TCGA-49-6743	1621	0	81	FEMALE	Stage IIIA	T1	MX	N2
TCGA-73-4668	467	0	66	FEMALE	Stage IIB	T2	M0	N1

TCGA-67-3770	610	0	70	FEMALE	Stage IA	T1	M0	N0
TCGA-64-1680	1126	0	63	MALE	Stage IV	T2a	M1	N2
TCGA-05-4398	1431	0	47	FEMALE	Stage IIIB	T4	M0	N3
TCGA-78-7155	1171	1	68	MALE	Stage IB	T2	M0	N0
TCGA-78-7152	1215	1	65	MALE	Stage IB	T2	M0	N0
TCGA-75-6211		1	unknow	FEMALE	Stage IB	T2	M0	N0
TCGA-MP-A4T6	1790	1	76	FEMALE	Stage IIIA	T1	MX	N2
TCGA-55-A57B	546	0	80	FEMALE	Stage IA	T1b	M0	N0
TCGA-44-2656	1429	0	59	MALE	Stage IB	T2	M0	N0
TCGA-93-A4JO	33	1	70	MALE	Stage IA	T1a	MX	N0
TCGA-78-7535	949	1	45	MALE	Stage IB	T2	M0	N0
TCGA-62-8398	444	1	55	MALE	Stage IIIA	T2	M0	N2
TCGA-91-6840	372	0	59	FEMALE	Stage IA	T1b	M0	N0
TCGA-75-5122		1	unknow	MALE	Stage IB	T2	M0	N0
TCGA-99-8025	1060	0	72	FEMALE	Stage IIIA	T3	M0	N2
TCGA-55-8207	977	0	73	MALE	Stage IB	T2a	MX	N0
TCGA-55-6969	1239	0	52	MALE	Stage IB	T2	M0	N0
TCGA-64-5774	2676	0	60	MALE	Stage IB	T2	M0	N0
TCGA-O1-A52J	1798	1	74	FEMALE	Stage IA	T1	MX	N0
TCGA-86-6851	179	0	73	FEMALE	Stage IIA	T1b	M0	N1
TCGA-62-8395	1216	0	80	FEMALE	Stage IIB	T3	M0	N0
TCGA-86-A4P7	415	0	63	FEMALE	Stage IB	T2a	M0	N0
TCGA-91-6831	310	0	66	MALE	Stage IB	T2	MX	N0
TCGA-05-4420	912	0	41	MALE	Stage IB	T2	M0	N0
TCGA-05-4395	0	1	76	MALE	Stage IIIB	T4	M0	N2
TCGA-67-6217	422	0	73	FEMALE	Stage IIA	T2a	M0	N1
TCGA-44-4112	808	1	60	FEMALE	Stage IB	T2a	M0	N0
TCGA-49-AAR2	2224	0	64	MALE	Stage IB	T2	MX	N0
TCGA-62-A46O	1454	1	65	FEMALE	Stage IB	T2	M0	N0
TCGA-44-7660	592	0	72	MALE	Stage IB	T2	MX	N0
TCGA-44-3919	1026	1	71	FEMALE	Stage IA	T1	M0	N0
TCGA-44-6775	705	0	72	FEMALE	Stage IB	T2a	MX	N0
TCGA-97-7554	775	0	83	FEMALE	Stage IIIA	T2a	M0	N2
TCGA-86-6562	376	1	52	MALE	Stage IIA	T2a	M0	N1
TCGA-55-6642	2449	0	63	MALE	Stage IB	T2	MX	N0
TCGA-62-A471	1246	0	64	MALE	Stage IIB	T2b	M0	N1
TCGA-05-5715	62	0	69	FEMALE	Stage IB	T2a	M0	N0

Table S5. The gene set enrichment analysis between the high-
and low-risk subgroups

ID	setSize	enrichmentScore	NES	pvalue	p.adjust	qvalues	rank
#1	108	-0.78347	-1.94129	1.00E-10	1.83E-08	1.61E-08	2117
#2	36	-0.82145	-1.86182	1.48E-06	0.000135	0.000119	2602
#3	177	0.447522	1.74263	1.14E-05	0.000696	0.000613	1920
#4	29	-0.81464	-1.81128	2.94E-05	0.001154	0.001015	1887
#5	30	-0.80439	-1.80192	3.69E-05	0.001154	0.001015	2709
#6	99	-0.65877	-1.62257	3.78E-05	0.001154	0.001015	3031
#7	20	-0.83547	-1.77066	8.01E-05	0.002094	0.001842	2594
#8	23	0.773562	2.178365	0.000183	0.004187	0.003685	1396
#9	72	-0.65598	-1.58529	0.000598	0.012162	0.010703	3027
#10	71	0.540156	1.864178	0.001092	0.019978	0.017582	1840
#11	164	-0.56256	-1.41309	0.001811	0.027615	0.024303	3027
#12	35	-0.71845	-1.62488	0.001884	0.027615	0.024303	2709
#13	57	-0.6646	-1.59091	0.001962	0.027615	0.024303	3431
#14	31	-0.73701	-1.65933	0.002873	0.037555	0.033051	2709
#15	113	-0.58248	-1.44813	0.003225	0.039339	0.034621	2709
#16	30	-0.72247	-1.61841	0.004	0.045748	0.040261	2709
#17	98	-0.5811	-1.42895	0.006952	0.074836	0.065861	3027
#18	58	-0.61572	-1.47027	0.009152	0.092892	0.081752	3307
#19	67	-0.60473	-1.45947	0.009645	0.092892	0.081752	3344
#20	71	-0.59293	-1.43486	0.010385	0.095024	0.083627	2786
#21	111	0.396354	1.433297	0.011518	0.097331	0.085658	2571
#22	44	0.541685	1.738763	0.011701	0.097331	0.085658	2793
#23	28	0.589287	1.768519	0.015211	0.118001	0.103849	276
#24	28	0.585709	1.757781	0.015476	0.118001	0.103849	652
#25	83	-0.56495	-1.38175	0.02355	0.169521	0.14919	3951
#26	26	0.577483	1.717124	0.024085	0.169521	0.14919	2722
#27	21	-0.68579	-1.46051	0.035672	0.241776	0.212779	919
#28	12	-0.75192	-1.44868	0.043194	0.271988	0.239368	3177
#29	193	-0.4933	-1.24244	0.04431	0.271988	0.239368	2998
#30	41	0.47476	1.492806	0.044588	0.271988	0.239368	1526

ID	Name
#1	KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS
#2	KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION
#3	KEGG_FOCAL_ADHESION
#4	KEGG_PRIMARY_IMMUNODEFICIENCY
#5	KEGG_ALLOGRAFT_REJECTION
#6	KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY
#7	KEGG_ASTHMA
#8	KEGG_PENTOSE_PHOSPHATE_PATHWAY
#9	KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY
#10	KEGG_ECM_RECEPTOR_INTERACTION
#11	KEGG_CHEMOKINE_SIGNALING_PATHWAY
#12	KEGG_TYPE_I_DIABETES_MELLITUS
#13	KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION

#14	KEGG_GRAFT_VERSUS_HOST_DISEASE
#15	KEGG_CELL_ADHESION_MOLECULES_CAMS
#16	KEGG_AUTOIMMUNE_THYROID_DISEASE
#17	KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY
#18	KEGG_VIRAL_MYOCARDITIS
#19	KEGG_LEISHMANIA_INFECTION
#20	KEGG_HEMATOPOIETIC_CELL_LINEAGE
#21	KEGG_AXON_GUIDANCE
#22	KEGG_GLUTATHIONE_METABOLISM
#23	KEGG_RETINOL_METABOLISM
#24	KEGG_DRUG_METABOLISM_OTHER_ENZYMES
#25	KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY
#26	KEGG_BUTANOATE_METABOLISM
#27	KEGG_OLFACTORY_TRANSDUCTION
#28	KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS
#29	KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION
#30	KEGG_DRUG_METABOLISM_CYTOCHROME_P450

Table S6. The differential genes between the high- and low-risk subgroups

genes	logFC
LRRC38	5.77209
ITLN1	5.093469
CGB5	5.0637
SPINK4	5.018862
WFDC5	4.863646
MSTN	4.85163
REG4	3.462981
TKTL1	3.317839
BHMT	3.201467
PCSK2	2.601331
WFDC12	2.596349
CASP14	2.544977
CYP2A6	2.437882
FABP7	2.207876
TM4SF20	2.204879
PRG4	2.129739
KRT20	2.108255
MYBPC1	2.027449
RHCG	1.969365
PI3	1.925202
SPANXB1	1.914373
MAGEB2	1.873272
KRT75	1.83063
BPIFB4	1.819879
C8A	1.790626
NNAT	1.776173
MUCL1	1.730919
MUCL3	1.728357
CGA	1.722207
PNMA5	1.695974
LINC00922	1.695028
IL11	1.691951
COL2A1	1.66523
GUCA2B	1.648576
ALPP	1.638716
KRT81	1.622893
PICSAR	1.616223
GCG	1.610601
RNA5-8SP4	1.610593
RNA5-8SP2	1.607272
BMX	1.58001
IBSP	1.572115
MAEL	1.563401
MAGEA4	1.53959

UPK1B	1.519657
LINC00941	1.507221
L1CAM	1.492518
IGF2BP1	1.466408
FLNC	1.460028
AL355916.1	1.459204
LYPD2	1.454452
GAGE2A	1.45111
SFRP1	1.444445
FBN2	1.432985
MFAP5	1.430841
PRR20G	1.410451
NTSR1	1.405714
IL1A	1.40561
AC003092.1	1.40216
AL161431.1	1.394849
PTPRR	1.384654
CD177	1.384526
UGT1A10	1.358814
MT1A	1.35077
ARL14	1.317029
AC026785.3	1.311899
WNT7A	1.305529
AC245041.1	1.276577
MAGEA10	1.265337
HMGA2	1.263004
PRSS3	1.2572
S100A8	1.254445
S100A2	1.23664
SPX	1.234377
APCDD1L	1.226511
PAGE1	1.202966
MTCO2P22	1.198571
AC079949.1	1.198534
ADH7	1.193546
AKR1B10	1.187747
CRABP1	1.182868
GNRH2	1.181262
UCA1	1.135296
S100A12	1.134962
REG1A	1.128967
ECEL1	1.124277
C11orf53	1.116484
PRB3	1.116215
TFF2	1.10781
RPS26P47	1.104639
SPOCK1	1.092716
MUC5AC	1.091366
HMGCS2	1.085384

LINC00460	1.078901
CYP1A1	1.072883
AGTR2	1.06832
MAGEA1	1.053921
KRT17	1.052473
LINC02617	1.04324
CNMD	1.040852
ELOVL3	1.033271
AC022784.1	1.032325
IL20RB	1.024204
PAGE2	1.017271
CDA	1.015468
ADH1C	1.012369
ANXA8	1.009556
INHA	1.001223
SCGB3A1	0.998306
PRSS1	0.997704
MIR31HG	0.98239
MIR205HG	0.970571
GJB3	0.96818
EEF1A2	0.964264
IFNWP19	0.960663
H19	0.960427
CLDN6	0.955193
SERTM1	0.950803
NFE4	0.94168
PAX8	0.941592
LYPD3	0.939495
SLC10A2	0.937731
GTSF1	0.935252
ANKRD1	0.922819
NMRAL2P	0.922716
AC005336.1	0.921071
MSLN	0.912468
HES2	0.910022
AF274573.1	0.907673
GNLY	0.898218
AKAP12	0.894397
NDP	0.890693
FER1L6	0.885863
INSL4	0.885768
FOSL1	0.883756
CLRN3	0.880914
PPBP	0.880777
LINC01980	0.869656
AC018629.1	0.866006
RASL10B	0.865306
RNA5-8SP6	0.863819
MMP11	0.861186

LAMC2	0.855959
POPDC3	0.850887
FGF12	0.850674
PRSS2	0.845783
B3GALT5	0.835431
AC239859.5	0.831119
TGFBI	0.830386
TMSB15A	0.829064
MYO16-AS1	0.820272
CYP11A1	0.816109
CDHR5	0.81557
AC245041.2	0.808441
CYP4F11	0.803369
CA2	0.803338
PSCA	0.80327
C11orf86	0.803245
HOXC12	0.798625
CDHR2	0.798386
ANXA10	0.798149
NCCRP1	0.795815
LINP1	0.795215
CSAG1	0.792818
DKK1	0.790566
5_8S_rRNA	0.789106
GKN2	0.788584
SCX	0.785875
AC079949.2	0.78538
NRK	0.780601
COL9A3	0.773406
KLK6	0.770771
TNS4	0.769407
MSMB	0.767966
EYA1	0.767228
RSPO3	0.765168
GPA33	0.760637
LINC01133	0.757954
VEGFC	0.756868
TINCR	0.754866
AL365181.2	0.753692
AL049555.1	0.752942
TRIM29	0.749249
FAM83B	0.748794
MYBPH	0.748191
GRAMD1B	0.743815
CES1	0.742699
KRT6A	0.742239
HBE1	0.73665
KYNU	0.735975
ANGPTL4	0.735081

ANPEP	0.732464
TAC3	0.722078
KIAA0319	0.719836
TMEM59L	0.718632
COL11A1	0.718609
PPP2R2C	0.717675
CRISPLD1	0.714747
PTGR1	0.712019
MAGEA3	0.710233
NPTX2	0.709255
MAGEA6	0.709219
CALB2	0.707643
CYSRT1	0.707635
AC092868.1	0.704609
HTR1D	0.704323
SERPINB7	0.703994
CBR3	0.696425
COL11A2	0.696299
RHOV	0.696025
LINC01559	0.695817
SLCO1B3	0.691481
MELTF	0.690413
LAMA3	0.689228
MIR193BHG	0.687876
RAET1G	0.685675
TMEM130	0.680404
FNDC4	0.677782
C16orf74	0.6776
FGFBP2	0.676206
DNER	0.674921
LOXL2	0.672705
LINC01511	0.671959
LUCAT1	0.66749
FSTL3	0.667241
TRIM48	0.666802
FNDC1	0.663844
KRTDAP	0.661209
RGS20	0.661032
SOX11	0.658616
F2RL2	0.656839
AC027288.2	0.656682
CA12	0.655903
PCSK9	0.652949
CLIC3	0.648543
SLC15A1	0.648291
G0S2	0.647001
COL12A1	0.646864
APOBEC1	0.644914
CRYBG2	0.644128

RBP2	0.6432
SPDYC	0.642724
KRT80	0.639623
MAGEA12	0.635833
NREP	0.634474
SLC16A1	0.633884
SERPINB5	0.632749
AC129507.4	0.629909
ACKR3	0.629565
KRT16	0.628475
COL7A1	0.627589
APLN	0.626652
SMOC1	0.626497
SLC2A1	0.623029
PDX1	0.621847
LINC02154	0.621445
LINC01597	0.621186
CXCL5	0.61849
ECEL1P2	0.617552
AC004847.1	0.617163
AARD	0.617013
NUPR2	0.616833
AP000695.2	0.615668
TRIM16L	0.6126
AL513318.1	0.611485
TM4SF4	0.610395
FSCN1	0.608734
ITGA5	0.608191
FBN3	0.608108
PDPN	0.607668
ALPG	0.606487
MESP2	0.605643
EDIL3	0.605614
SBSN	0.604853
MDFI	0.601895
UGT2B15	0.59951
ALDOB	0.599455
GJB5	0.591901
PLCD3	0.589604
HHIP	0.58573
AC073325.2	0.58478
SHISA3	0.582101
S100A1	0.581286
NMU	0.581093
LASTR	0.579826
ACE2	0.576063
LINC01088	0.576044
OVOL1	0.575931
TREML3P	0.575566

AP000695.1	0.571421
FAM133A	0.571006
S100P	0.570569
UPK2	0.569685
TFF1	0.568404
BCL2L10	0.567684
PTGES	0.564895
GLI3	0.564233
RASD2	0.564024
SLC7A11	0.562749
LINC00973	0.555947
RAET1E	0.555933
ELFN1-AS1	0.554982
MSLN	0.552235
IGFBP3	0.552122
ZFP42	0.551466
F3	0.550399
CYP4F3	0.548404
SLAMF9	0.547683
HOXA1	0.547573
AC084375.1	0.547451
VSIG10L	0.545872
CHAD	0.543658
PLPP4	0.542584
CAV2	0.542116
KISS1	0.539465
TNNT2	0.539077
HHIPL2	0.537751
AP003119.3	0.537616
GPAT3	0.535227
MME	0.534858
SRXN1	0.53441
AKR1B15	0.533292
VGLL1	0.531878
FOXE1	0.528733
P3H2	0.528104
GCLC	0.528072
PLAU	0.52792
NR0B1	0.527524
OPN3	0.526695
HOXA10	0.524789
AL109615.3	0.524727
RPL29P19	0.52366
ASAP2	0.522771
CACNG4	0.522556
PTX3	0.522375
F2RL1	0.521756
CNGA1	0.52063
ARNTL2	0.520512

PCOLCE2	0.519745
PLEK2	0.51931
RRAS2P1	0.519236
AC244153.1	0.518306
SHOX2	0.51749
FAM171A2	0.517298
ODC1	0.517188
FAM3D	0.517069
COL10A1	0.515255
PKP2	0.514922
BMPR1B	0.514747
LINC01116	0.514415
FJX1	0.514247
AC079384.1	0.514222
CAV1	0.512929
FNDC5	0.512529
PANX2	0.511565
UGDH	0.509797
SNAI2	0.507654
PMEPA1	0.505988
TSPAN8	0.505149
FAM83A	0.504168
SOX15	0.503313
CABYR	0.501734
AC102953.2	0.501713
TSKU	0.500445
LINGO1	0.49982
COLCA2	0.499057
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FGFR3	0.498462
CSF2	0.49842
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TFAP2A	0.493706
IL22RA1	0.493306
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CMBL	0.491877
VGLL3	0.4916
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CITED4	0.490839
MAGEC1	0.489453
ANLN	0.489279
PGF	0.48909
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MSX2	0.486093
HEPACAM2	0.485688
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ADM	0.480422
ITGA11	0.479909
SUGCT	0.479518
ASPH	0.479426
SRMS	0.479362
EMSLR	0.479292
CTSV	0.479164
SCAT1	0.478944
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ALDH3A1	0.474757
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MTCO1P40	0.469431
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NAT8L	0.467848
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TCEAL2	0.46591
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IGFBP6	0.460441
EPHX3	0.459548
BCAS1	0.458187
LDLRAD3	0.457472
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TCN1	0.45584
GPR87	0.455525
FABP5P7	0.455453
LINC01705	0.455333
MTCO2P12	0.455266
CDR2L	0.455047
ADGRG3	0.454962
SLCO4A1	0.453563
SDCBP2	0.452335
MAFK	0.451826
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NOS3	0.451648
GJB2	0.451465
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NKILA	0.445151
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MFAP2	0.43956
MIR100HG	0.439441
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AC106771.1	0.438499
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CDCP1	0.436496
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GJC1	0.435599
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LOX	0.434205
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VSIG1	0.427739
AL365181.3	0.427393
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EPHA2	0.426187
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BCAR3	0.425607
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COL17A1	0.421017
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PADI3	0.418698
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MAMLD1	0.410122
ADAMTSL5	0.409058
PRRX2	0.408732
SPINK2	0.408681
AVPI1	0.407585
SHH	0.40646
SEMA3B	0.40555
ERRFI1	0.405059
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SEMA7A	0.402395
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GRHL3	0.401297
CEMIP	0.401268
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MEDAG	0.375882
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AATK	0.372343
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MAPK4	0.320329
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SPOCD1	0.318307
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ST3GAL4	0.312023
AKR1C2	0.311296
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MEIS3P1	0.303513
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SMURF1	0.252495
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TAX1BP3	0.24513
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BRINP1	0.244424

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CRYZ	0.098824
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FBLIM1	0.098785

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VSIG2	0.098487
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ETV5	0.098425
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DARS1	0.098352
ATN1	0.098346
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AKT1S1	0.09833
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COPG1	0.098077
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RCCD1	0.096993

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SCARA3	0.096835
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NOP14-AS1	0.095875
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KPNA3	0.086812
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AARS2	0.086162
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ACSL3	0.085921
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ABCF3	0.084207
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NACC1	0.078993
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MAPK14	0.078905
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MEGF8	0.078683
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SNAP47	0.07863
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NOL7	0.07853
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SEC13	0.075759
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ASCC1	0.069131
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ZFR	0.068742
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DIAPH1	0.067955
VAT1	0.067939
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MARCHF6	0.067282
SCN1B	0.067167
ARF1	0.067128
ATP1B1	0.067119
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POGK	0.067038
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MCAT	0.067011
STAM	0.066942
BRI3P1	0.066925
TM9SF3	0.06691
AC026271.1	0.066909
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ABCC10	0.066815
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KLHL20	0.066482
IGSF3	0.066438
INPP5A	0.066415
NFYC	0.066391
AC009171.2	0.066378
UBE3A	0.066299
VKORC1	0.066292
CCT7	0.066286
CRLS1	0.066274
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MINPP1	0.066207
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SPAG7	0.065991
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IFNLR1	0.065875
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GAA	0.065404
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HDHD3	0.065322
NOP14	0.065317
KPNA4	0.065314
TRAPPC1	0.065296
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CSDE1	0.065187
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METTL2A	0.064768
PRDM16	0.064744
SMIM19	0.06473
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AL139156.2	0.064714
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MT-TL1	0.06461
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FOXP4-AS1	0.064598
LEO1	0.064553
SCAP	0.064553
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AC115522.1	0.064522
CEP85	0.064518
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KCNE3	0.064414

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GNA11	0.064256
CHD4	0.064242
SF3A1	0.064225
EGLN1	0.064211
PLEKHG2	0.06419
SCYL1	0.064178
PRKAB2	0.064165
GRWD1	0.064001
NR2F1-AS1	0.063983
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AL139100.1	0.063838
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HDAC2	0.063806
SPON1	0.063791
HEBP2	0.063757
RTN4	0.063731
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SCMH1	0.063605
SFXN3	0.063521
KIFC3	0.063492
CCT8	0.063373
CASK	0.063361
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CAB39	0.062712
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TRAPPC4	0.062414
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C22orf46	0.062389
MRPS11	0.062316
CDCA7	0.062293
NOP2	0.062287
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DPM2	0.062226
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SAP130	0.062139
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MOV10	0.061748
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NT5C	0.061699
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AC007182.2	0.061635
C1orf116	0.061622
AC018868.1	0.061609
COG6	0.061608
SMC4	0.061574
AC084117.1	0.061566
MYOZ1	0.061551
UBE2Q1	0.061463
INPP5F	0.061418
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LOXL1	0.061321
BUB1	0.061321
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PUS3	0.061158
LYSMD1	0.061141
RCOR1	0.061097
BCAS2	0.061037
HSF1	0.060997
GYS1	0.060944
RANGAP1	0.060909
PTMAP9	0.060885
FAHD2B	0.060867
OPA3	0.060858
AC046143.1	0.060851
NECAB3	0.060839
BMS1	0.060827
PPFIA1	0.060774
POLR2B	0.060727
CPLANE2	0.060725
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TM9SF4	0.060665
TAGLN2	0.060665
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GARS1	0.060461
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TBC1D13	0.060429
SNRPEP11	0.060424
AC022211.2	0.060423
COA4	0.060399
PCDHGB7	0.060348
GTPBP2	0.060337
AC005229.3	0.0603
SYNDIG1	0.060292
SCP2	0.060279
COIL	0.060268
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LARP1	0.060225
MORN4	0.060224
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HEBP1	0.060145
AC090589.1	0.060126
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SEC16A	0.06008
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EMC7	0.059884
FOX2-AS1	0.059858
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SPART	0.059808
PRRC1	0.059793
CAP1	0.059786
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HNRNPA1	0.059739
PIK3C2B	0.059583
WDR24	0.059582
ERBB3	0.059531
PBX2	0.059518
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YIPF1	0.05944

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KCNS3	0.059201
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GFPT1	0.059097
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SUV39H1	0.05903
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EIF2B2	0.058973
LLGL2	0.05892
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KLHL12	0.058861
CCDC102A	0.058832
PLPPR2	0.058791
SKI	0.058749
SUGT1	0.058696
AC022007.1	0.058694
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TGOLN2	0.058663
PSMD5	0.0586
ELF3	0.058595
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CYB5R2	0.058434
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SHROOM2	0.058403
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ATG10	0.05836
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GHITM	0.058215
RNF168	0.058189
SLC35A1	0.058178
AC106795.1	0.05816
YWHAQ	0.058156
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DDX23	0.057909
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DM1-AS	0.057852
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CDC27	0.05745
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EPOP	0.049834
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AC036214.2	0.048795
MEF2D	0.048776
BUD23	0.048766
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KLF10	0.048175
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RHBDD2	0.047536

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B4GALT3	0.045589
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EFCAB14	0.043168
PCGF1	0.043131
USP19	0.043119
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COG5	0.042532
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YBX1P1	0.042436
CUL2	0.042414
TRAPPC12-AS1	0.042385
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FLOT1	0.042351
XDH	0.04232
C1orf216	0.042276
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SRA1	0.042259

UBIAD1	0.042251
SCNM1	0.042242
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SLC39A13	0.042231
BCL2L12	0.042223
FAM120A	0.042213
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XRCC5	0.042173
ACO2	0.042154
ANXA11	0.042151
XXYLT1	0.042148
COX17P1	0.042137
SIAE	0.042112
EEF2	0.042066
DHDDS	0.042042
B4GALT6	0.041992
CARD11	0.041967
POT1	0.041955
MAFG-DT	0.04195
SGMS1-AS1	0.041926
CZIB	0.041922
COA8	0.041921
IFT22	0.041889
HMMR	0.041878
RPSA	0.041861
SELENOF	0.041849
RNF25	0.041847
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EIF2B3	0.041836
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MAP3K13	0.041556
C1orf198	0.041522
EIF3C	0.041514
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DARS2	0.041429
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CDC73	0.041207
CUEDC2	0.041192
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SNX12	0.041167
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MTREX	0.041081
ZNF595	0.041073
PRPF4	0.041072
SNAPC1	0.041015
ARSJ	0.041002
NRAS	0.040966
CCDC90B	0.040826
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TFB2M	0.040763
CHCHD1	0.040755
ZNF512B	0.040713
LAMTOR1	0.040709
KDM4A	0.040704
STAU1	0.040699
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SPPL3	0.04065
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MORC4	0.0406
MIER2	0.040592
MEMO1P1	0.040589
TMEM43	0.040587
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ITPKC	0.040551
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SUCLA2	0.040404
CBLL1	0.040401
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COX20	0.038251
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PIK3CB	0.037456
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CHERP	0.033852
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MTX2	0.033714
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MTX1	0.033598
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CDH24	0.033449
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ITPR3	0.033225
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CTDSPL2	0.03308
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KHDC4	0.033016
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WDR53	0.032957
SNRNP27	0.032939
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AL132712.1	0.032913
MEGF9	0.032902
RPS15	0.032873
MAGOH	0.032872
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PMS2P5	0.032721

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ITPK1	0.031315
CHAMP1	0.031314
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NKIRAS2	0.030673
MTSS2	0.030642
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SHANK2	0.030585

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CYB561	0.028535
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MAP1S	0.0282
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GPSM2	0.028149
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PEX7	0.027349
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SNRPN	0.027272
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CMPK1	0.027223
ESRP2	0.027221

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KARS1	0.027132
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DLK1	0.027036
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CD63	0.027028
UTP6	0.027023
SERP2	0.026975
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OSR1	0.026934
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FANCC	0.026904
INCENP	0.026888
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SAE1	0.02681
THRAP3	0.026767
FUBP3	0.026751
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ENPEP	0.026703
EXOC7	0.026661
GDPGP1	0.026656
ATXN2	0.026631
USP42	0.026625
AC073073.2	0.026616
PTRH2	0.026608
YDJC	0.026605
ZNF610	0.026547
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HMGA1P5	0.026442
PUDP	0.02644
AC092718.3	0.026425
SRP14-AS1	0.026397
PML	0.026391

OVOL2	0.026389
CALML4	0.026385
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IPO11	0.011292
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PPTC7	0.011042
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DAZAP2	0.007517
TMEM219	0.007475
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BRD3	0.007357
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DNAJC15	0.006805
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WARS2-AS1	0.005706
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SHOC2	0.005545
AC073896.2	0.005524
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RNASEL	0.004874
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AUTS2	0.004786
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ETFBKMT	0.004758
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PRR3	0.004006
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DHX8	0.003895
C5orf15	0.003883
JMJD4	0.003857
PHYH	0.003796
WFDC3	0.003755
PDE8A	0.003749
C22orf23	0.003733
CYCS	0.003733
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IGHV3-65	-1.03398
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SYT4	-1.12014
SNORA74B	-1.12041
SNTN	-1.1212
HPX	-1.12436
IGHV4-34	-1.12576
OMG	-1.12754
TRAF3IP3	-1.12765
AC007991.2	-1.12832
SH2D1A	-1.12885
LILRA2	-1.12898
TRBJ2-7	-1.12929
CFAP43	-1.13113
AF178030.1	-1.13137
DDC	-1.13381

RNVU1-27	-1.13496
SCARNA8	-1.13674
LY9	-1.13858
CD48	-1.13962
TRBC1	-1.14131
AC004386.6	-1.1416
TFAP2D	-1.14188
F2	-1.14266
CAPSL	-1.14592
DCDC2B	-1.14879
MUC6	-1.14941
LINC00426	-1.15028
AC087286.1	-1.15098
TRBV20-1	-1.15211
P2RY10	-1.15215
IGHV3-38	-1.15661
IGHD	-1.15879
TRBV2	-1.1604
TRBV5-4	-1.16063
IGKV3D-15	-1.16147
IGLV7-46	-1.16226
TRAV12-1	-1.16276
TRBV6-6	-1.16465
PYHIN1	-1.16575
STOML3	-1.16683
AC004687.1	-1.1677
IGLV3-12	-1.16809
SNORA28	-1.16827
RSPH4A	-1.16949
IGHV5-78	-1.17042
RN7SL752P	-1.17085
CLECL1	-1.17097
AC015911.3	-1.17203
ZBP1	-1.17328
ANKRD44-AS1	-1.17382
CTLA4	-1.17388
IGHG2	-1.17476
TRAV8-3	-1.17546
IGHD6-19	-1.17549
RN7SL767P	-1.17693
IGHA2	-1.1771
TRBV5-1	-1.17737
SNORA1B	-1.17761
SAA4	-1.18235
BTBD9-AS1	-1.18281
CXCR2P1	-1.18442
RERGL	-1.18593
IGLV3-13	-1.18776
ANKRD36C	-1.18841

ADGRG5	-1.1885
IGHV1-69D	-1.19142
RNU6-942P	-1.19142
FAM166B	-1.19525
ITK	-1.19548
IGHV3-43	-1.19628
IGHG3	-1.19655
IGHV1OR21-1	-1.19723
TRAJ3	-1.19758
SLAMF1	-1.1983
IGHD2-15	-1.19928
APOH	-1.20149
IGHV3-60	-1.20237
MORN5	-1.20254
AC245128.3	-1.20321
ZAP70	-1.20348
IGLV3-21	-1.20382
IGHV1-67	-1.20542
IGHV3OR16-15	-1.20613
CD300LG	-1.2063
DNAI1	-1.20685
GZMK	-1.20734
CFAP73	-1.20766
RNU6-122P	-1.20941
RNA5SP111	-1.21055
C9orf24	-1.21113
CD40LG	-1.21195
IGHV3OR16-8	-1.21699
IGLC6	-1.21719
AL157871.3	-1.21893
MIR644A	-1.22038
TUBA4B	-1.22282
CCDC154	-1.22292
C9orf135	-1.22507
RET	-1.22732
IGLC2	-1.22748
CFAP65	-1.22892
AL139120.1	-1.22905
CFAP77	-1.22954
GPR15	-1.23068
IGLV5-37	-1.23145
SPRR2A	-1.23296
SNORA53	-1.23684
IGHV3-66	-1.23799
SLAMF6	-1.23838
CREB3L2-AS1	-1.23988
RNU6-920P	-1.24016
PSMD10P1	-1.24036
RNU6-522P	-1.24263

RNVU1-31	-1.24326
CFAP100	-1.24416
DNAAF1	-1.24496
IGHV1-18	-1.2454
C1orf189	-1.24568
CD27	-1.24576
GVINP1	-1.24798
IGHV1-46	-1.24855
MIR1245A	-1.24895
IGHV1-58	-1.24996
AKAP14	-1.25014
TRAT1	-1.25023
AC234772.1	-1.25023
FCMR	-1.25094
RN7SKP227	-1.2523
IGKV1OR10-1	-1.25285
RNU6-2	-1.25289
AC243960.1	-1.25316
IGHV3OR15-7	-1.25383
CFAP52	-1.25651
IGHA1	-1.25772
SNORA2C	-1.25787
IGLV2-28	-1.25848
ECT2L	-1.26122
IGHJ2	-1.26254
VWA3A	-1.26288
GPR18	-1.26307
CCR7	-1.26384
RPL12P20	-1.26387
IGHV3OR16-12	-1.26508
IGHV3-6	-1.26628
AL133304.2	-1.2667
IGKV2OR22-4	-1.26706
IGHV7-81	-1.26732
IGHV3-49	-1.26814
RNU7-124P	-1.27269
IGLV1-50	-1.27306
IGLC3	-1.27384
AC022022.2	-1.27487
IGKV2-29	-1.27558
SPRR1A	-1.27641
GPR174	-1.27655
RN7SKP9	-1.27692
RNU7-70P	-1.27742
PNOC	-1.2776
WDR38	-1.27841
IGKV1D-43	-1.27913
H2BC9	-1.28233
HOATZ	-1.28349

IGKV3D-11	-1.28381
RNU6-681P	-1.28531
TRBV4-2	-1.28593
IGLJ2	-1.28798
TTC29	-1.28898
C1orf87	-1.28901
AC100826.1	-1.28947
MIAT	-1.29078
APOBEC4	-1.29195
IGHV3-62	-1.29437
LILRP1	-1.29512
SNORA20	-1.30147
LRRC71	-1.30177
IGKV3-7	-1.30243
CDHR4	-1.30384
IGHV3-47	-1.30448
IGLV2-33	-1.30589
DNAAF6	-1.3064
TRBV10-3	-1.307
IGHV3-63	-1.30747
MZB1	-1.30855
KIF19	-1.30914
IGHV1-45	-1.30921
RNVU1-7	-1.31285
IGHV3OR16-9	-1.31369
IGHV1-17	-1.3146
IGLV4-69	-1.31759
IGHV1-69	-1.31802
LRRC18	-1.3202
LINC01857	-1.32051
IGHJ3	-1.32103
AC091925.2	-1.32108
IGKV1-17	-1.32109
FCRL2	-1.32132
OBP2A	-1.32154
LINC01765	-1.32203
IGLV2-5	-1.32269
IGHV7-27	-1.32477
TRBV4-1	-1.32511
C20orf85	-1.32512
SPIB	-1.32563
C6orf118	-1.32721
IGLV3-25	-1.32734
IGHGP	-1.32835
IGHV3-53	-1.32913
WDR49	-1.32972
SNORD56B	-1.33036
IGLV3-10	-1.33055
C22orf15	-1.33208

IGKV1D-17	-1.33295
TEKT1	-1.33399
IGKV3D-20	-1.33458
LTF	-1.33712
IGKV3-15	-1.33868
RNU6-998P	-1.33959
IGHV3-41	-1.33997
IGHV3-35	-1.3435
IGHV3-73	-1.34483
CIBAR2	-1.34743
AC103591.3	-1.34983
SNORA14B	-1.35126
IGKV1-16	-1.35156
IGHD6-6	-1.35319
IGLV2-34	-1.35473
ATP12A	-1.35492
MIR624	-1.35539
IGHV1OR15-9	-1.35638
IGLV1-47	-1.3575
H3C13	-1.36004
SRGAP3-AS2	-1.36016
IGKV1-8	-1.36089
POU2AF1	-1.36264
CHRD12	-1.3627
IGKV1D-13	-1.36563
IGLV4-3	-1.36595
NCR3	-1.36892
IGKV2D-28	-1.36963
SCARNA7	-1.37045
IGLV2-11	-1.37093
AC103563.3	-1.37107
IGHD3-9	-1.37485
AC022973.4	-1.37658
IGKV1-27	-1.37765
IGHV3-37	-1.37773
AL049830.4	-1.38016
SCARNA22	-1.38063
IGKV2-30	-1.38365
IGHV4-59	-1.38491
PI15	-1.38503
RPS20P15	-1.38875
RNU11	-1.38918
DNAH9	-1.39013
ADAMDEC1	-1.39212
IGHV3-48	-1.39315
ITIH2	-1.39332
C11orf97	-1.39333
IGLV5-48	-1.39369
IGKV1OR2-3	-1.39448

IGHV3-52	-1.39475
UMODL1	-1.39479
IGHV3OR16-13	-1.39815
IGHV3-75	-1.40013
DTHD1	-1.40026
RNU5A-8P	-1.4005
BTLA	-1.4017
NUGGC	-1.40294
IGHV3OR16-10	-1.40459
LINC00582	-1.40463
DNAI2	-1.40485
IGHVIII-67-2	-1.40577
IGLV7-43	-1.4059
SNORA63C	-1.40767
IGHV3OR16-17	-1.41019
AC010359.1	-1.41022
IGHV4-61	-1.41117
RNU6-126P	-1.41268
IGHV3-30	-1.41491
IGLV6-57	-1.4163
AC134879.2	-1.41686
DEFB4A	-1.41781
H3C12	-1.4179
LINC00861	-1.41904
FAM216B	-1.41946
IGKV3-20	-1.41959
TRAJ17	-1.41985
CD22	-1.42023
RNU5F-1	-1.42181
SNORD15B	-1.4223
STAP1	-1.42365
IGHV3-76	-1.42475
IGKV1-5	-1.42507
RNU1-11P	-1.42609
IGHV4-28	-1.42962
IGHV2-70	-1.43035
IGHV4-31	-1.43095
IGHV5-51	-1.43127
IGKV1D-8	-1.43177
IGLL5	-1.43181
TAC4	-1.43197
IGKC	-1.4335
PAH	-1.43377
IGHV1-12	-1.43418
IGHG1	-1.43452
TMEM190	-1.43544
ZBBX	-1.43685
AC245517.5	-1.43748
IGKV1D-33	-1.44073

TRAJ6	-1.44099
IGFBP1	-1.44393
TRAJ18	-1.44402
RNU6-1045P	-1.44482
IGKV1-9	-1.44514
IGLV1-44	-1.44543
SCARNA21	-1.4469
IGHV3-72	-1.44701
IGKV7-3	-1.45019
IGLV1-40	-1.45061
AC135068.1	-1.452
UGT2B4	-1.45256
IGLV1-51	-1.45382
IGHV3-64	-1.45563
IGLV2-8	-1.45771
LAX1	-1.4603
IGHV3-33	-1.46103
IGHV4-55	-1.46313
MIR8071-1	-1.46353
IGKV1OR2-108	-1.46692
RNU4-51P	-1.46732
AC090571.1	-1.46876
IGKV2-18	-1.46994
AL357093.2	-1.47002
VPREB3	-1.47086
RNU6-1283P	-1.47167
IGKV2D-29	-1.47321
SNORA46	-1.47381
MIR3140	-1.47862
TRAJ1	-1.48111
IGHV7-56	-1.48318
TCL1A	-1.48433
TRAJ2	-1.4846
AC025423.5	-1.48498
FCRL5	-1.48904
ERICH3	-1.48905
MIR5690	-1.49073
RN7SL648P	-1.49243
IGHV3-19	-1.49339
TSPAN19	-1.49376
IGKV2-28	-1.49849
IGHV1-3	-1.49883
LINC02362	-1.49919
IGKV3-11	-1.50038
IGHV1OR16-1	-1.50064
IGKV1D-39	-1.50141
AC037487.2	-1.50216
IRF4	-1.50233
MIR34C	-1.50412

AC130895.1	-1.50516
PVALB	-1.50541
ASCL1	-1.50709
JCHAIN	-1.50744
IGHV3-21	-1.50963
TRAJ5	-1.51112
AC009032.1	-1.51121
FGF19	-1.51204
IGLV2-14	-1.5175
IGLJ1	-1.51857
SNORA7B	-1.51953
SCARNA9	-1.52379
TRAJ10	-1.52406
H2AC16	-1.52424
SNORA40B	-1.52942
SNRPGP18	-1.53172
IGHV3-74	-1.53191
IGKV1OR22-5	-1.53339
AL033519.1	-1.53459
IGHV3-15	-1.53565
ANKRD44-IT1	-1.53586
CLC	-1.53817
IGKV1-6	-1.53878
RNY4	-1.54039
IGHV1-2	-1.54049
CD79B	-1.54203
ASGR2	-1.54255
DTNB-AS1	-1.54614
IGKV2OR2-1	-1.54668
IGHD3-22	-1.54857
RNU6ATAC	-1.5494
IGHV3-25	-1.55808
IGLV3-1	-1.55813
SNORA63D	-1.56084
VTRNA1-1	-1.56198
IGKV1-39	-1.56325
IGHV3-42	-1.56582
TNFRSF17	-1.56603
IGHD4-17	-1.56678
IGKV2OR22-3	-1.56749
AGT	-1.57199
COPDA1	-1.57459
IGHV3-71	-1.57552
RN7SL329P	-1.57767
IGHV3-23	-1.57881
IGKV6D-21	-1.58035
IGHV3-7	-1.58046
IGHV3-20	-1.58357
SNORA74A	-1.58481

SMYD3-AS1	-1.59021
AC142381.1	-1.59311
RN7SL2	-1.59476
IGHV4-39	-1.59774
RNU4ATAC	-1.59876
IGHJ2P	-1.60061
IGHV2-26	-1.60197
SCARNA18	-1.60201
TMEM14EP	-1.60302
ANKRD36BP2	-1.60403
TRAJ39	-1.60447
IGKJ5	-1.60488
IGHD4-23	-1.60547
CYP17A1	-1.60829
PLA2G2D	-1.6098
IGLV3-19	-1.61322
IGHV3-11	-1.61549
LINC00926	-1.61778
AL136320.1	-1.6195
RNU4-1	-1.62565
IGHV3OR16-6	-1.63199
IGKV3D-7	-1.63344
IGHD6-25	-1.63485
AKR1C4	-1.63572
IGLV2-18	-1.63779
LINC01419	-1.64047
INSM1	-1.64462
IGHJ1	-1.64612
IGKV2-24	-1.65335
SNORD8	-1.65439
IGHD6-13	-1.65753
IGKV4-1	-1.65846
IGLJ3	-1.65974
TRAJ38	-1.66141
CXCL13	-1.66147
IGKV1OR2-11	-1.66284
MIR8071-2	-1.66357
IGKV2-26	-1.66825
CR2	-1.67309
KRT13	-1.67997
TNFRSF13C	-1.68622
RNU2-59P	-1.69125
IGLV4-60	-1.69152
IGHV1-24	-1.69716
SCARNA12	-1.70318
IGLV3-27	-1.70409
H2BC14	-1.7044
IGKV1OR22-1	-1.70972
RNA5SP202	-1.71358

RNU4-2	-1.7164
AL157402.2	-1.72068
IGHJ3P	-1.72071
CD79A	-1.72085
RN7SKP203	-1.72189
FAM30A	-1.72345
H4C5	-1.72791
IGKV1OR2-6	-1.73093
IGHV4-4	-1.73604
SNORA80B	-1.73929
TRAJ12	-1.74117
IGHV2-5	-1.74161
SCARNA13	-1.74961
H3C1	-1.75036
IGKV1-33	-1.75523
PCSK1	-1.75564
H1-4	-1.75786
IGHV6-1	-1.75919
CCL19	-1.75958
AC103563.1	-1.76172
SNORA74D	-1.76433
TRAJ13	-1.76946
IGHD2-2	-1.772
IGKV1-12	-1.78118
IGHD4-4	-1.78165
SCARNA1	-1.78395
A2ML1	-1.78901
IGKV1-13	-1.80106
TRAJ8	-1.80129
IGHD1-1	-1.80263
PAX5	-1.80368
IGLV8-61	-1.80478
SNORA38B	-1.80698
FCRL3	-1.80806
MIR3609	-1.80971
IGHV1OR16-3	-1.81311
SCARNA3	-1.81935
IGLV5-45	-1.82416
NSG2	-1.83017
TRAJ37	-1.83182
H3C11	-1.83259
SCN3A	-1.83308
RMRP	-1.83651
RNU7-84P	-1.83837
SNORA47	-1.84022
SNORA37	-1.84373
TRAJ16	-1.84443
RNU7-4P	-1.84952
RNU2-23P	-1.85143

RN7SL507P	-1.85622
SCGB1A1	-1.85633
SCARNA10	-1.86049
APOA2	-1.86107
H2AC12	-1.86391
AC022973.1	-1.86708
TMEM229A	-1.87259
FCRLA	-1.87959
SNORA49	-1.88447
IGLV10-54	-1.8863
IGHV3-13	-1.88743
RNVU1-2A	-1.8928
TIMM9P1	-1.91892
CD19	-1.91949
IGKV6-21	-1.92875
LBP	-1.92944
CELF3	-1.93698
SNORA73B	-1.94363
PCK1	-1.94573
SNORA38	-1.9482
MIR4538	-1.95328
SNORA14A	-1.96007
FCER2	-1.97103
IGHD3-16	-1.97511
H2AC14	-1.97675
MIR4539	-1.98294
IGKV1D-12	-1.98454
TRAJ21	-1.99608
SNORA23	-1.99933
MIR4537	-2.00197
LINC01781	-2.009
RNY1	-2.01912
BLK	-2.02103
MIR5739	-2.02834
IGLV3-16	-2.02852
SNORA71A	-2.037
SNORA54	-2.03955
H4C2	-2.04238
RNU5A-1	-2.04283
IGHD2-21	-2.04894
IGLV3-6	-2.05135
RN7SKP71	-2.0532
SNORA22	-2.06114
RN7SKP255	-2.06966
H2AC4	-2.07856
IGLV1-36	-2.08964
AP000763.2	-2.09197
MIR4480	-2.10362
IGHV3OR16-11	-2.10471

RNU5B-1	-2.11417
IGHM	-2.11623
IGLVI-70	-2.13673
IGHD3-3	-2.14397
IGHV2-70D	-2.14455
TRAJ14	-2.1559
IGKV2D-30	-2.15803
RN7SL546P	-2.16742
FCRL1	-2.16827
GP2	-2.17207
AL391314.1	-2.17701
AL032819.2	-2.18405
H4C3	-2.19563
H2AC21	-2.19605
FDCSP	-2.20049
SCARNA6	-2.20191
SNORA80D	-2.23568
7SK	-2.24163
RNY3	-2.24738
H4C4	-2.25232
TF	-2.25293
SNORA71D	-2.25533
SCARNA5	-2.26062
RNU5E-1	-2.30351
TTR	-2.30384
H1-3	-2.30704
MS4A1	-2.32415
SNORA84	-2.34665
IGKV1D-16	-2.3485
CALML3	-2.34987
SPRR2E	-2.35576
SNORA79B	-2.37683
SNORA12	-2.40609
H3C7	-2.45617
RNU5D-1	-2.47109
SNORA80A	-2.4732
OLFM4	-2.49383
H1-5	-2.49467
WNT16	-2.49735
DEFA8P	-2.53499
CEACAM7	-2.55247
H4C1	-2.56295
RNA5-8SN1	-2.5711
IGHD1-26	-2.62426
SNORA22C	-2.65106
SNORD17	-2.71863
ALB	-2.72694
SST	-2.84613
H4C13	-2.85144

IGKV6D-41	-2.8825
AL121584.1	-3.00972
H2BC3	-3.04524
TAC1	-3.0936
H2BC10	-3.1528
SCG2	-3.16376
AL355075.4	-3.17743
IGLV9-49	-3.21637
VTN	-3.27353
VGLL2	-3.30562
AC026333.1	-3.71732
RN7SL434P	-3.84358
DEFA9P	-4.05329
GC	-4.1742
H1-1	-4.17922
H4C6	-4.3171
KIR2DL1	-4.46937
AC093001.1	-4.71482
DKK4	-4.95641
CALB1	-4.9594
AFP	-5.21308
NPY	-5.70133
DEFA5	-8.16463

Table S7. Immune cell bubbles of different IRGPI subgroups in multiplatform.

immune	cor	pvalue
B cell_TIMER	-0.55147	2.31E-41
T cell CD4+_TIMER	-0.37626	2.31E-18
T cell CD8+_TIMER	-0.19221	1.42E-05
Neutrophil_TIMER	-0.21329	1.38E-06
Myeloid dendritic cell_TIMER	-0.26619	1.32E-09
B cell naive_CIBERSORT	-0.09194	0.039289
B cell memory_CIBERSORT	-0.37676	2.07E-18
B cell plasma_CIBERSORT	-0.15689	0.000413
T cell CD8+_CIBERSORT	-0.18148	4.24E-05
T cell CD4+ memory resting_CIBERSORT	-0.16941	0.000135
T cell CD4+ memory activated_CIBERSORT	-0.11327	0.011015
T cell follicular helper_CIBERSORT	-0.13623	0.002199
T cell regulatory (Tregs)_CIBERSORT	-0.15135	0.00066
T cell gamma delta_CIBERSORT	-0.11461	0.010097
NK cell resting_CIBERSORT	0.125525	0.004812
Monocyte_CIBERSORT	0.103994	0.019655
Macrophage M0_CIBERSORT	0.09377	0.035515
Macrophage M1_CIBERSORT	-0.23424	1.07E-07
Macrophage M2_CIBERSORT	0.222494	4.63E-07
Myeloid dendritic cell activated_CIBERSORT	0.175099	7.89E-05
Mast cell resting_CIBERSORT	0.123491	0.005548
B cell naive_CIBERSORT-ABS	-0.19715	8.41E-06
B cell memory_CIBERSORT-ABS	-0.43266	2.31E-24
B cell plasma_CIBERSORT-ABS	-0.35859	1.04E-16
T cell CD8+_CIBERSORT-ABS	-0.39786	1.59E-20
T cell CD4+ memory resting_CIBERSORT-ABS	-0.37755	1.73E-18
T cell CD4+ memory activated_CIBERSORT-ABS	-0.12242	0.005977
T cell follicular helper_CIBERSORT-ABS	-0.39443	3.59E-20
T cell regulatory (Tregs)_CIBERSORT-ABS	-0.26382	1.87E-09
T cell gamma delta_CIBERSORT-ABS	-0.12249	0.005947
NK cell resting_CIBERSORT-ABS	0.110028	0.013548
NK cell activated_CIBERSORT-ABS	-0.27148	6.01E-10
Macrophage M1_CIBERSORT-ABS	-0.37349	4.27E-18
Macrophage M2_CIBERSORT-ABS	-0.22728	2.57E-07
Myeloid dendritic cell activated_CIBERSORT-ABS	0.113686	0.010722
Mast cell resting_CIBERSORT-ABS	0.088957	0.046142
B cell_QUANTISEQ	-0.58235	5.29E-47
Macrophage M2_QUANTISEQ	-0.207	2.84E-06
T cell CD4+ (non-regulatory)_QUANTISEQ	0.097661	0.028518
T cell CD8+_QUANTISEQ	-0.38636	2.36E-19
T cell regulatory (Tregs)_QUANTISEQ	-0.4022	5.57E-21
uncharacterized cell_QUANTISEQ	0.248431	1.64E-08

T cell_MCPCOUNTER	-0.50201	1.81E-33
T cell CD8+_MCPCOUNTER	-0.37434	3.54E-18
cytotoxicity score_MCPCOUNTER	-0.27295	4.81E-10
NK cell_MCPCOUNTER	-0.28027	1.57E-10
B cell_MCPCOUNTER	-0.71852	4.88E-81
Monocyte_MCPCOUNTER	-0.15291	0.000579
Macrophage/Monocyte_MCPCOUNTER	-0.15291	0.000579
Myeloid dendritic cell_MCPCOUNTER	-0.23215	1.40E-07
Myeloid dendritic cell activated_XCELL	-0.42981	4.95E-24
B cell_XCELL	-0.65135	4.73E-62
T cell CD4+ memory_XCELL	-0.18295	3.66E-05
T cell CD4+ naive_XCELL	-0.39015	9.81E-20
T cell CD4+ (non-regulatory)_XCELL	-0.10644	0.016936
T cell CD4+ central memory_XCELL	-0.10643	0.016952
T cell CD4+ effector memory_XCELL	-0.11748	0.008357
T cell CD8+ naive_XCELL	-0.14511	0.0011
T cell CD8+_XCELL	-0.46329	3.96E-28
T cell CD8+ central memory_XCELL	-0.48617	3.36E-31
T cell CD8+ effector memory_XCELL	-0.15866	0.000354
Class-switched memory B cell_XCELL	-0.51721	9.31E-36
Common lymphoid progenitor_XCELL	0.210013	2.02E-06
Myeloid dendritic cell_XCELL	-0.28041	1.53E-10
Eosinophil_XCELL	-0.08951	0.044805
Cancer associated fibroblast_XCELL	-0.15857	0.000357
Hematopoietic stem cell_XCELL	-0.09028	0.042977
Macrophage_XCELL	-0.23025	1.78E-07
Macrophage M1_XCELL	-0.23968	5.28E-08
Macrophage M2_XCELL	-0.1083	0.015094
Mast cell_XCELL	-0.18326	3.55E-05
B cell memory_XCELL	-0.51448	2.45E-35
Monocyte_XCELL	-0.15199	0.000626
B cell naive_XCELL	-0.22963	1.92E-07
Neutrophil_XCELL	0.14862	0.000827
Plasmacytoid dendritic cell_XCELL	-0.37055	8.11E-18
B cell plasma_XCELL	-0.50514	6.26E-34
immune score_XCELL	-0.51066	9.34E-35
stroma score_XCELL	-0.11654	0.008892
microenvironment score_XCELL	-0.46832	8.75E-29
B cell_EPIC	-0.7118	6.80E-79
T cell CD4+_EPIC	-0.19314	1.29E-05
Macrophage_EPIC	-0.21922	6.87E-07
uncharacterized cell_EPIC	0.224086	3.82E-07