

Table S1- Patients information

ID	ICI score	ζ TMB group	ICI score+TMB	ICI score	ICI gene cluster	ICI cluster	Stage	Age	Gender	Data source	ill survival (day)	Status
TCGA-34	High	Low	L-TMB+H-ICI score	1.54404	A	C1	1,2	71	Femal	TCGA	2271	Alive
TCGA-96	Low	High	H-TMB+L-ICI score	-0.9316	B	C1	1,2	83	Male	TCGA	2160	Alive
TCGA-85	Low	Low	L-TMB+L-ICI score	-1.1379	A	C1	1,2	60	Femal	TCGA	910	Alive
TCGA-85	High	High	H-TMB+H-ICI score	1.31615	A	C4	1,2	71	Male	TCGA	383	Alive
TCGA-85	High	Low	L-TMB+H-ICI score	-0.0794	B	C1	1,2	62	Male	TCGA	455	Alive
TCGA-66	High	High	H-TMB+H-ICI score	0.48593	B	C3	3,4	73	Male	TCGA	123	Dead
TCGA-22	High	High	H-TMB+H-ICI score	0.48451	A	C1	1,2	71	Male	TCGA	669	Dead
TCGA-96	High	Low	L-TMB+H-ICI score	1.62746	A	C4	1,2	78	Femal	TCGA	842	Alive
TCGA-77	High	High	H-TMB+H-ICI score	-0.4646	A	C1	1,2	74	Femal	TCGA	1189	Dead
TCGA-63	High	High	H-TMB+H-ICI score	0.85194	A	C2	1,2	67	Male	TCGA	0	Dead
TCGA-90	High	High	H-TMB+H-ICI score	-0.0512	A	C2	1,2	70	Male	TCGA	428	Alive
TCGA-85	High	High	H-TMB+H-ICI score	0.04297	B	C2	1,2	58	Male	TCGA	111	Alive
TCGA-37	High	High	H-TMB+H-ICI score	0.46568	A	C4	1,2	65	Male	TCGA	13	Alive
TCGA-O2	High	High	H-TMB+H-ICI score	1.64748	B	C2	3,4	71	Femal	TCGA	340	Dead
TCGA-58	High	High	H-TMB+H-ICI score	0.74257	A	C3	1,2	70	Male	TCGA	911	Alive
TCGA-66	Low	Low	L-TMB+L-ICI score	-0.819	B	C4	1,2	71	Male	TCGA	61	Alive
TCGA-77	High	High	H-TMB+H-ICI score	0.33032	B	C2	1,2	66	Femal	TCGA	351	Dead
TCGA-98	High	High	H-TMB+H-ICI score	-0.7235	B	C2	1,2	67	Male	TCGA	826	Alive
TCGA-66	High	High	H-TMB+H-ICI score	-0.1619	A	C4	1,2	65	Male	TCGA	60	Alive
TCGA-43	High	Low	L-TMB+H-ICI score	0.54584	B	C2	1,2	70	Male	TCGA	849	Alive
TCGA-22	High	High	H-TMB+H-ICI score	0.35531	A	C2	1,2	67	Male	TCGA	1975	Dead
TCGA-60	Low	Low	L-TMB+L-ICI score	-1.5816	B	C1	1,2	73	Male	TCGA	1154	Dead
TCGA-77	High	High	H-TMB+H-ICI score	0.24714	B	C2	1,2	74	Male	TCGA	2224	Dead
TCGA-63	Low	Low	L-TMB+L-ICI score	-2.1814	B	C2	1,2	68	Male	TCGA	2148	Alive
TCGA-66	High	High	H-TMB+H-ICI score	-0.3319	B	C1	1,2	62	Femal	TCGA	1311	Alive
TCGA-43	Low	High	H-TMB+L-ICI score	-2.2177	B	C1	3,4	47	Femal	TCGA	1176	Alive
TCGA-52	High	Low	L-TMB+H-ICI score	-0.4461	B	C2	1,2	67	Male	TCGA	266	Dead
TCGA-85	Low	High	H-TMB+L-ICI score	-1.8357	B	C1	1,2	72	Male	TCGA	23	Alive
TCGA-85	High	Low	L-TMB+H-ICI score	0.99308	B	C4	1,2	63	Male	TCGA	61	Alive
TCGA-94	High	Low	L-TMB+H-ICI score	0.60285	A	C2	1,2	73	Male	TCGA	640	Alive
TCGA-60	High	Low	L-TMB+H-ICI score	-0.7151	B	C1	1,2	41	Male	TCGA	372	Dead
TCGA-77	High	Low	L-TMB+H-ICI score	0.01001	B	C3	3,4	73	Male	TCGA	212	Dead
TCGA-85	High	High	H-TMB+H-ICI score	0.03992	B	C3	1,2	71	Male	TCGA	911	Alive
TCGA-39	High	High	H-TMB+H-ICI score	1.95209	B	C2	3,4	59	Male	TCGA	519	Dead
TCGA-66	Low	High	H-TMB+L-ICI score	-0.8528	A	C1	3,4	68	Male	TCGA	122	Alive
TCGA-33	High	High	H-TMB+H-ICI score	-0.4233	B	C2	3,4	57	Male	TCGA	428	Dead
TCGA-NC	High	High	H-TMB+H-ICI score	1.39553	A	C2	1,2	53	Male	TCGA	37	Alive
TCGA-22	High	High	H-TMB+H-ICI score	1.39343	B	C1	1,2	69	Male	TCGA	131	Dead
TCGA-60	High	High	H-TMB+H-ICI score	0.63113	A	C2	1,2	74	Femal	TCGA	642	Alive
TCGA-77	High	High	H-TMB+H-ICI score	-0.6417	A	C2	1,2	70	Male	TCGA	1884	Alive
TCGA-63	High	High	H-TMB+H-ICI score	-0.163	B	C4	1,2	56	Male	TCGA	769	Alive
TCGA-22	High	Low	L-TMB+H-ICI score	-0.1717	B	C2	1,2	61	Male	TCGA	223	Dead
TCGA-21	High	High	H-TMB+H-ICI score	0.18106	B	C2	1,2	69	Male	TCGA	284	Dead
TCGA-O2	High	High	H-TMB+H-ICI score	-0.1563	B	C2	1,2	75	Femal	TCGA	1335	Dead
TCGA-33	High	High	H-TMB+H-ICI score	0.80011	B	C2	1,2	66	Male	TCGA	211	Dead
TCGA-63	High	High	H-TMB+H-ICI score	-0.4769	B	C2	1,2	67	Male	TCGA	0	Dead
TCGA-96	High	High	H-TMB+H-ICI score	0.34545	B	C2	1,2	75	Femal	TCGA	531	Alive
TCGA-63	High	High	H-TMB+H-ICI score	2.86557	B	C3	1,2	76	Male	TCGA	1639	Alive
TCGA-37	High	High	H-TMB+H-ICI score	-0.5751	A	C1	1,2	69	Male	TCGA	12	Alive
TCGA-56	High	Low	L-TMB+H-ICI score	-0.6436	B	C2	1,2	70	Male	TCGA	405	Alive
TCGA-56	High	High	H-TMB+H-ICI score	3.77414	B	C2	1,2	56	Male	TCGA	150	Alive
TCGA-98	High	High	H-TMB+H-ICI score	2.84831	B	C1	1,2	76	Femal	TCGA	618	Alive
TCGA-94	High	High	H-TMB+H-ICI score	0.39569	A	C2	1,2	71	Femal	TCGA	430	Alive
TCGA-43	High	High	H-TMB+H-ICI score	2.49428	A	C2	1,2	75	Femal	TCGA	2378	Alive
TCGA-NC	High	High	H-TMB+H-ICI score	-0.7493	A	C2	1,2	77	Male	TCGA	1499	Alive
TCGA-63	Low	High	H-TMB+L-ICI score	-1.1087	B	C4	1,2	67	Male	TCGA	2142	Alive
TCGA-22	High	High	H-TMB+H-ICI score	0.51192	A	C4	1,2	75	Male	TCGA	1845	Alive
TCGA-77	High	High	H-TMB+H-ICI score	0.41257	B	C4	1,2	74	Male	TCGA	1640	Dead
TCGA-37	High	High	H-TMB+H-ICI score	0.48811	A	C1	1,2	49	Male	TCGA	867	Alive
TCGA-85	High	High	H-TMB+H-ICI score	0.89373	A	C2	1,2	52	Male	TCGA	815	Alive
TCGA-NC	High	High	H-TMB+H-ICI score	0.81118	B	C3	3,4	69	Male	TCGA	770	Alive
TCGA-85	High	Low	L-TMB+H-ICI score	4.53431	A	C4	1,2	61	Male	TCGA	741	Alive
TCGA-33	High	High	H-TMB+H-ICI score	0.27969	A	C2	1,2	55	Male	TCGA	3149	Dead
TCGA-43	High	High	H-TMB+H-ICI score	0.26494	A	C2	1,2	59	Femal	TCGA	550	Alive
TCGA-34	High	High	H-TMB+H-ICI score	0.51767	A	C2	1,2	80	Male	TCGA	1031	Alive
TCGA-56	High	High	H-TMB+H-ICI score	-0.0617	A	C2	1,2	74	Male	TCGA	510	Alive
TCGA-18	High	High	H-TMB+H-ICI score	-0.0013	B	C2	1,2	50	Male	TCGA	827	Dead
TCGA-21	Low	Low	L-TMB+L-ICI score	-1.0015	A	C4	1,2	80	Femal	TCGA	1268	Alive
TCGA-90	High	High	H-TMB+H-ICI score	-0.6047	B	C2	1,2	69	Male	TCGA	615	Alive
TCGA-MF	High	High	H-TMB+H-ICI score	-0.2956	B	C2	1,2	54	Male	TCGA	360	Alive
TCGA-46	High	High	H-TMB+H-ICI score	-0.6162	B	C2	3,4	58	Male	TCGA	299	Dead
TCGA-77	Low	High	H-TMB+L-ICI score	-1.5691	A	C1	3,4	62	Femal	TCGA	2133	Dead
TCGA-56	High	Low	L-TMB+H-ICI score	0.51221	B	C2	1,2	66	Male	TCGA	543	Alive
TCGA-85	High	High	H-TMB+H-ICI score	-0.526	B	C2	1,2	71	Male	TCGA	960	Alive
TCGA-56	High	High	H-TMB+H-ICI score	-0.5422	B	C2	3,4	61	Male	TCGA	951	Alive
TCGA-NC	High	High	H-TMB+H-ICI score	0.18439	A	C2	3,4	59	Male	TCGA	1963	Alive
TCGA-56	Low	High	H-TMB+L-ICI score	-0.9517	B	C2	1,2	72	Male	TCGA	105	Alive
TCGA-60	High	High	H-TMB+H-ICI score	0.32033	B	C3	1,2	73	Male	TCGA	2945	Dead
TCGA-39	High	High	H-TMB+H-ICI score	-0.5007	A	C2	1,2	73	Male	TCGA	2165	Alive
TCGA-33	High	High	H-TMB+H-ICI score	0.20045	A	C2	3,4	71	Male	TCGA	601	Dead
TCGA-34	Low	Low	L-TMB+L-ICI score	-1.759	B	C1	1,2	84	Male	TCGA	1000	Dead
TCGA-39	High	High	H-TMB+H-ICI score	0.35741	A	C2	3,4	65	Femal	TCGA	2510	Alive
TCGA-77	High	High	H-TMB+H-ICI score	0.80456	A	C2	1,2	59	Femal	TCGA	2227	Alive
TCGA-85	High	High	H-TMB+H-ICI score	1.12182	A	C2	1,2	61	Male	TCGA	683	Alive
TCGA-O2	High	High	H-TMB+H-ICI score	-0.2057	B	C4	3,4	44	Femal	TCGA	113	Dead
TCGA-68	High	High	H-TMB+H-ICI score	-0.2026	A	C2	1,2	66	Male	TCGA	244	Alive
TCGA-70	High	Low	L-TMB+H-ICI score	0.19814	A	C2	1,2	65	Male	TCGA	375	Alive
TCGA-68	High	High	H-TMB+H-ICI score	1.05175	B	C1	1,2	78	Male	TCGA	406	Alive
TCGA-85	High	High	H-TMB+H-ICI score	-0.2714	A	C2	1,2	49	Male	TCGA	1063	Alive
TCGA-66	High	High	H-TMB+H-ICI score	1.45638	A	C2	3,4	68	Male	TCGA	30	Alive
TCGA-85	Low	High	H-TMB+L-ICI score	-3.134	A	C1	1,2	66	Male	TCGA	1224	Alive
TCGA-94	High	High	H-TMB+H-ICI score	0.88289	B	C2	1,2	80	Male	TCGA	559	Alive
TCGA-22	Low	Low	L-TMB+L-ICI score	-3.4492	B	C4	1,2	73	Male	TCGA	53	Dead
TCGA-85	High	High	H-TMB+H-ICI score	0.69447	A	C2	1,2	73	Male	TCGA	550	Alive
TCGA-63	High	High	H-TMB+H-ICI score	1.5471	B	C2	1,2	68	Male	TCGA	2026	Alive
TCGA-94	High	High	H-TMB+H-ICI score	-0.3459	B	C2	1,2	70	Male	TCGA	153	Alive

TCGA-85- High	High	H-TMB+H-ICI score	-0.2802 B	C3	1,2	70 Male	TCGA	236 Alive
TCGA-60- High	Low	L-TMB+H-ICI score	0.53458 B	C2	1,2	39 Male	TCGA	1475 Alive
TCGA-O2 High	High	H-TMB+H-ICI score	-0.4238 B	C2	3,4	57 Female	TCGA	387 Dead
TCGA-51- High	High	H-TMB+H-ICI score	-0.2236 B	C2	1,2	65 Male	TCGA	12 Dead
TCGA-22- Low	High	H-TMB+L-ICI score	-0.8782 B	C2	1,2	58 Female	TCGA	916 Dead
TCGA-85- High	Low	L-TMB+H-ICI score	-0.3134 B	C1	1,2	63 Female	TCGA	294 Alive
TCGA-85- Low	High	H-TMB+L-ICI score	-2.208 B	C1	1,2	62 Male	TCGA	1050 Alive
TCGA-77- Low	Low	L-TMB+L-ICI score	-1.1801 B	C1	1,2	68 Male	TCGA	2639 Dead
TCGA-39- Low	Low	L-TMB+L-ICI score	-0.871 B	C1	3,4	75 Male	TCGA	52 Dead
TCGA-34- High	High	H-TMB+H-ICI score	-0.1492 B	C3	1,2	83 Female	TCGA	1196 Alive
TCGA-43- Low	Low	L-TMB+L-ICI score	-7.0614 B	C1	1,2	76 Male	TCGA	116 Dead
TCGA-63- High	High	H-TMB+H-ICI score	0.59978 B	C2	3,4	65 Male	TCGA	1784 Alive
TCGA-63- High	High	H-TMB+H-ICI score	0.20279 A	C2	1,2	68 Male	TCGA	1386 Alive
TCGA-39- Low	Low	L-TMB+L-ICI score	-4.4515 A	C1	3,4	81 Female	TCGA	59 Dead
TCGA-51- Low	High	H-TMB+L-ICI score	-1.7076 B	C2	1,2	73 Female	TCGA	12 Dead
TCGA-22- High	High	H-TMB+H-ICI score	-0.0574 B	C2	1,2	74 Male	TCGA	1713 Dead
TCGA-66- Low	High	H-TMB+L-ICI score	-0.953 B	C1	1,2	71 Male	TCGA	30 Alive
TCGA-33- High	High	H-TMB+H-ICI score	0.06955 B	C2	1,2	68 Male	TCGA	2419 Alive
TCGA-52- High	High	H-TMB+H-ICI score	0.16592 B	C2	1,2	60 Female	TCGA	923 Alive
TCGA-77- High	High	H-TMB+H-ICI score	-0.7439 B	C2	1,2	56 Male	TCGA	4261 Alive
TCGA-66- Low	High	H-TMB+L-ICI score	-1.1422 B	C4	3,4	70 Male	TCGA	1492 Alive
TCGA-33- High	High	H-TMB+H-ICI score	-0.7569 A	C4	1,2	40 Male	TCGA	5287 Dead
TCGA-90- Low	Low	L-TMB+L-ICI score	-1.2005 B	C4	1,2	66 Female	TCGA	289 Alive
TCGA-60- High	Low	L-TMB+H-ICI score	-0.4652 B	C3	1,2	70 Male	TCGA	667 Dead
TCGA-56- High	High	H-TMB+H-ICI score	0.89301 B	C1	1,2	78 Male	TCGA	616 Alive
TCGA-85- High	High	H-TMB+H-ICI score	-0.4537 B	C3	1,2	65 Male	TCGA	687 Alive
TCGA-60- High	Low	L-TMB+H-ICI score	0.50836 B	C1	1,2	73 Male	TCGA	983 Alive
TCGA-22- High	Low	L-TMB+H-ICI score	0.44485 A	C1	1,2	69 Female	TCGA	17 Dead
TCGA-33- High	High	H-TMB+H-ICI score	-0.0448 B	C2	1,2	67 Male	TCGA	9 Alive
TCGA-60- High	Low	L-TMB+H-ICI score	2.09585 B	C1	1,2	51 Male	TCGA	1075 Dead
TCGA-85- High	Low	L-TMB+H-ICI score	0.59103 A	C2	1,2	72 Male	TCGA	510 Alive
TCGA-58- High	High	H-TMB+H-ICI score	-0.363 A	C2	1,2	61 Male	TCGA	1072 Alive
TCGA-37- High	Low	L-TMB+H-ICI score	5.22516 B	C2	1,2	52 Female	TCGA	242 Alive
TCGA-21- High	High	H-TMB+H-ICI score	-0.4789 B	C2	1,2	57 Male	TCGA	2134 Alive
TCGA-43- High	High	H-TMB+H-ICI score	0.71101 A	C4	1,2	71 Male	TCGA	596 Alive
TCGA-58- High	High	H-TMB+H-ICI score	2.22083 A	C1	1,2	60 Male	TCGA	412 Alive
TCGA-98- High	Low	L-TMB+H-ICI score	0.0951 A	C2	1,2	77 Male	TCGA	630 Alive
TCGA-85- High	High	H-TMB+H-ICI score	0.58443 B	C2	1,2	64 Male	TCGA	1111 Alive
TCGA-34- High	High	H-TMB+H-ICI score	0.29343 B	C2	1,2	72 Male	TCGA	1984 Alive
TCGA-34- High	High	H-TMB+H-ICI score	0.25373 B	C2	1,2	78 Female	TCGA	151 Dead
TCGA-22- Low	High	H-TMB+L-ICI score	-0.8965 A	C4	3,4	73 Female	TCGA	506 Dead
TCGA-98- High	Low	L-TMB+H-ICI score	3.8209 B	C1	1,2	77 Female	TCGA	822 Alive
TCGA-94- High	High	H-TMB+H-ICI score	0.69166 B	C4	1,2	73 Male	TCGA	810 Alive
TCGA-90- High	Low	L-TMB+H-ICI score	1.34877 A	C1	1,2	56 Male	TCGA	89 Alive
TCGA-96- High	Low	L-TMB+H-ICI score	-0.5609 B	C2	1,2	67 Female	TCGA	557 Alive
TCGA-34- High	High	H-TMB+H-ICI score	0.16876 B	C2	1,2	70 Male	TCGA	80 Dead
TCGA-56- High	High	H-TMB+H-ICI score	-0.1239 A	C2	1,2	78 Male	TCGA	440 Alive
TCGA-21- High	Low	L-TMB+H-ICI score	0.146 B	C2	1,2	67 Male	TCGA	1426 Dead
TCGA-22- High	Low	L-TMB+H-ICI score	1.07179 A	C4	1,2	66 Female	TCGA	2170 Dead
TCGA-77- High	High	H-TMB+H-ICI score	0.49125 A	C1	1,2	81 Male	TCGA	1182 Alive
TCGA-L3- High	Low	L-TMB+H-ICI score	0.54416 A	C2	1,2	71 Male	TCGA	392 Alive
TCGA-60- Low	High	H-TMB+L-ICI score	-1.3734 A	C1	1,2	74 Female	TCGA	1092 Alive
TCGA-37- High	High	H-TMB+H-ICI score	0.84418 A	C1	3,4	51 Male	TCGA	122 Alive
TCGA-66- High	High	H-TMB+H-ICI score	-0.2064 A	C2	1,2	63 Female	TCGA	30 Alive
TCGA-63- High	High	H-TMB+H-ICI score	-0.6304 A	C1	1,2	67 Male	TCGA	1602 Alive
TCGA-L3- High	High	H-TMB+H-ICI score	-0.3222 B	C2	1,2	45 Female	TCGA	490 Alive
TCGA-98- High	High	H-TMB+H-ICI score	0.41348 B	C2	1,2	75 Female	TCGA	937 Alive
TCGA-77- Low	Low	L-TMB+L-ICI score	-0.809 B	C2	1,2	70 Male	TCGA	840 Alive
TCGA-66- High	High	H-TMB+H-ICI score	-0.2432 A	C4	1,2	57 Male	TCGA	1217 Alive
TCGA-77- High	Low	L-TMB+H-ICI score	-0.4665 B	C3	1,2	74 Male	TCGA	539 Dead
TCGA-63- High	High	H-TMB+H-ICI score	0.0357 B	C2	1,2	70 Female	TCGA	2716 Alive
TCGA-66- High	High	H-TMB+H-ICI score	0.33627 A	C4	1,2	57 Male	TCGA	61 Alive
TCGA-77- High	Low	L-TMB+H-ICI score	-0.185 B	C2	1,2	72 Male	TCGA	3189 Alive
TCGA-43- High	High	H-TMB+H-ICI score	-0.0982 A	C2	3,4	61 Male	TCGA	366 Alive
TCGA-22- Low	Low	L-TMB+L-ICI score	-5.0149 A	C1	1,2	63 Male	TCGA	1953 Dead
TCGA-66- High	Low	L-TMB+H-ICI score	-0.5958 B	C3	1,2	65 Male	TCGA	366 Dead
TCGA-77- Low	Low	L-TMB+L-ICI score	-0.8767 B	C1	1,2	60 Male	TCGA	1106 Alive
TCGA-66- High	High	H-TMB+H-ICI score	1.3936 A	C3	1,2	72 Male	TCGA	699 Alive
TCGA-98- High	High	H-TMB+H-ICI score	-0.1636 B	C4	1,2	61 Male	TCGA	933 Alive
TCGA-58- High	High	H-TMB+H-ICI score	1.79169 B	C2	3,4	73 Male	TCGA	1723 Alive
TCGA-O2 High	High	H-TMB+H-ICI score	0.98593 A	C2	1,2	78 Male	TCGA	1006 Dead
TCGA-63- Low	Low	L-TMB+L-ICI score	-5.0562 B	C1	1,2	67 Female	TCGA	2073 Alive
TCGA-37- High	High	H-TMB+H-ICI score	1.45936 A	C2	1,2	68 Male	TCGA	207 Alive
TCGA-66- High	High	H-TMB+H-ICI score	-0.5728 B	C2	1,2	55 Female	TCGA	516 Dead
TCGA-34- Low	High	H-TMB+L-ICI score	-1.3585 B	C3	1,2	70 Male	TCGA	34 Dead
TCGA-NC High	High	H-TMB+H-ICI score	0.12148 A	C2	1,2	79 Male	TCGA	2 Dead
TCGA-56- High	High	H-TMB+H-ICI score	-0.2007 B	C2	1,2	83 Male	TCGA	601 Alive
TCGA-18- High	High	H-TMB+H-ICI score	-0.6334 A	C1	1,2	77 Male	TCGA	2803 Alive
TCGA-56- High	Low	L-TMB+H-ICI score	0.07517 A	C2	1,2	84 Male	TCGA	925 Alive
TCGA-33- High	High	H-TMB+H-ICI score	0.58016 A	C2	1,2	57 Female	TCGA	826 Dead
TCGA-43- Low	High	H-TMB+L-ICI score	-1.4639 A	C1	3,4	62 Female	TCGA	1223 Alive
TCGA-77- Low	High	H-TMB+L-ICI score	-1.1533 B	C1	3,4	64 Male	TCGA	3838 Dead
TCGA-33- High	High	H-TMB+H-ICI score	-0.0129 A	C2	1,2	73 Male	TCGA	4601 Alive
TCGA-46- High	High	H-TMB+H-ICI score	0.6554 B	C2	1,2	81 Male	TCGA	423 Alive
TCGA-18- High	Low	L-TMB+H-ICI score	0.77372 A	C2	3,4	73 Male	TCGA	716 Dead
TCGA-63- High	High	H-TMB+H-ICI score	-0.0238 A	C2	1,2	63 Male	TCGA	1052 Alive
TCGA-56- High	High	H-TMB+H-ICI score	0.38042 B	C2	1,2	80 Female	TCGA	455 Alive
TCGA-60- Low	Low	L-TMB+L-ICI score	-3.2891 A	C1	1,2	79 Female	TCGA	274 Dead
TCGA-60- High	High	H-TMB+H-ICI score	-0.0055 A	C4	1,2	62 Male	TCGA	311 Dead
TCGA-52- High	High	H-TMB+H-ICI score	1.65902 A	C2	1,2	74 Male	TCGA	166 Dead
TCGA-34- High	High	H-TMB+H-ICI score	0.47385 B	C4	1,2	75 Female	TCGA	2471 Alive
TCGA-18- High	High	H-TMB+H-ICI score	-0.3588 B	C2	1,2	63 Male	TCGA	188 Dead
TCGA-37- High	High	H-TMB+H-ICI score	0.17877 A	C2	3,4	59 Male	TCGA	660 Alive
TCGA-85- High	Low	L-TMB+H-ICI score	3.00445 A	C2	1,2	74 Female	TCGA	482 Alive
TCGA-60- High	High	H-TMB+H-ICI score	-0.7517 B	C4	1,2	60 Female	TCGA	97 Alive
TCGA-60- High	High	H-TMB+H-ICI score	-0.6386 B	C1	1,2	67 Female	TCGA	2024 Alive
TCGA-94- High	High	H-TMB+H-ICI score	-0.0612 B	C2	1,2	64 Male	TCGA	122 Alive
TCGA-22- High	High	H-TMB+H-ICI score	0.38432 B	C3	1,2	77 Male	TCGA	1067 Dead

TCGA-18- High	High	H-TMB+H-ICI score	-0.5268	A	C2	1,2	73	Male	TCGA	2811	Alive
TCGA-66- High	High	H-TMB+H-ICI score	0.94749	B	C2	3,4	68	Male	TCGA	306	Dead
TCGA-21- High	High	H-TMB+H-ICI score	0.3664	B	C3	3,4	71	Male	TCGA	965	Dead
TCGA-92- Low	High	H-TMB+L-ICI score	-1.1749	A	C1	1,2	58	Male	TCGA	160	Alive
TCGA-63- High	Low	L-TMB+H-ICI score	0.38335	A	C2	1,2	67	Male	TCGA	1682	Alive
TCGA-60- High	Low	L-TMB+H-ICI score	-0.0719	A	C4	1,2	58	Male	TCGA	2820	Alive
TCGA-98- High	Low	L-TMB+H-ICI score	-0.7812	B	C1	1,2	73	Male	TCGA	652	Alive
TCGA-37- High	High	H-TMB+H-ICI score	2.49249	B	C2	1,2	65	Femal	TCGA	12	Alive
TCGA-22- High	Low	L-TMB+H-ICI score	-0.1685	A	C2	1,2	65	Male	TCGA	1346	Dead
TCGA-33- High	High	H-TMB+H-ICI score	2.90422	B	C2	1,2	76	Femal	TCGA	4068	Alive
TCGA-77- High	High	H-TMB+H-ICI score	-0.508	B	C2	3,4	60	Male	TCGA	1150	Dead
TCGA-56- High	Low	L-TMB+H-ICI score	-0.1239	B	C1	1,2	66	Male	TCGA	428	Alive
TCGA-56- High	High	H-TMB+H-ICI score	0.30199	A	C2	1,2	81	Male	TCGA	4	Alive
TCGA-37- High	High	H-TMB+H-ICI score	4.2751	A	C4	1,2	56	Male	TCGA	247	Alive
TCGA-58- High	Low	L-TMB+H-ICI score	0.32016	A	C2	1,2	64	Male	TCGA	2589	Alive
TCGA-43- High	High	H-TMB+H-ICI score	0.52838	B	C2	1,2	70	Male	TCGA	699	Alive
TCGA-77- High	High	H-TMB+H-ICI score	0.353	A	C2	3,4	66	Male	TCGA	678	Dead
TCGA-39- High	High	H-TMB+H-ICI score	-0.7682	B	C4	1,2	76	Femal	TCGA	1841	Alive
TCGA-90- High	High	H-TMB+H-ICI score	0.29603	A	C4	1,2	61	Femal	TCGA	322	Alive
TCGA-68- High	High	H-TMB+H-ICI score	-0.5567	A	C2	1,2	60	Femal	TCGA	83	Alive
TCGA-66- High	High	H-TMB+H-ICI score	0.52135	A	C1	3,4	62	Male	TCGA	61	Alive
TCGA-66- High	High	H-TMB+H-ICI score	-0.1088	B	C4	1,2	60	Male	TCGA	578	Alive
TCGA-85- High	High	H-TMB+H-ICI score	0.11718	B	C1	1,2	59	Male	TCGA	1259	Alive
TCGA-56- High	High	H-TMB+H-ICI score	-0.6863	B	C2	1,2	73	Femal	TCGA	106	Alive
TCGA-56- High	High	H-TMB+H-ICI score	0.94873	B	C2	1,2	79	Male	TCGA	608	Alive
TCGA-18- High	High	H-TMB+H-ICI score	0.64346	A	C4	1,2	65	Male	TCGA	2645	Alive
TCGA-51- High	High	H-TMB+H-ICI score	0.34998	A	C2	1,2	72	Femal	TCGA	1856	Dead
TCGA-NC High	High	H-TMB+H-ICI score	0.98637	A	C4	1,2	73	Male	TCGA	88	Dead
TCGA-77- High	Low	L-TMB+H-ICI score	0.18847	A	C4	3,4	75	Male	TCGA	4026	Alive
TCGA-96- High	Low	L-TMB+H-ICI score	0.11201	A	C1	1,2	73	Male	TCGA	1736	Alive
TCGA-NC High	High	H-TMB+H-ICI score	0.47549	A	C2	1,2	76	Male	TCGA	1212	Alive
TCGA-33- Low	Low	L-TMB+L-ICI score	-0.8497	A	C4	1,2	62	Femal	TCGA	47	Dead
TCGA-85- High	High	H-TMB+H-ICI score	0.03306	B	C2	1,2	67	Male	TCGA	600	Alive
TCGA-60- High	Low	L-TMB+H-ICI score	-0.4365	A	C2	1,2	64	Femal	TCGA	1260	Alive
TCGA-33- High	High	H-TMB+H-ICI score	-0.2343	A	C2	1,2	68	Male	TCGA	3924	Alive
TCGA-NC High	High	H-TMB+H-ICI score	3.22818	A	C4	1,2	59	Male	TCGA	418	Dead
TCGA-21- High	High	H-TMB+H-ICI score	-0.0814	A	C4	3,4	65	Male	TCGA	329	Dead
TCGA-85- High	Low	L-TMB+H-ICI score	0.43025	B	C2	1,2	66	Male	TCGA	468	Alive
TCGA-34- High	High	H-TMB+H-ICI score	-0.3012	B	C3	1,2	73	Femal	TCGA	1541	Alive
TCGA-77- Low	High	H-TMB+L-ICI score	-0.8082	A	C2	3,4	68	Male	TCGA	2023	Alive
TCGA-56- High	High	H-TMB+H-ICI score	1.41832	B	C2	1,2	59	Male	TCGA	302	Alive
TCGA-33- High	High	H-TMB+H-ICI score	-0.6904	B	C2	1,2	60	Male	TCGA	143	Dead
TCGA-39- High	High	H-TMB+H-ICI score	-0.0711	A	C2	1,2	73	Male	TCGA	3108	Alive
TCGA-56- High	Low	L-TMB+H-ICI score	-0.5568	B	C1	1,2	76	Femal	TCGA	41	Alive
TCGA-56- High	High	H-TMB+H-ICI score	1.27486	A	C1	1,2	71	Male	TCGA	692	Alive
TCGA-77- High	High	H-TMB+H-ICI score	-0.1594	B	C2	1,2	69	Male	TCGA	708	Dead
TCGA-85- High	High	H-TMB+H-ICI score	0.83906	A	C2	1,2	57	Male	TCGA	493	Alive
TCGA-77- High	High	H-TMB+H-ICI score	0.15204	B	C2	1,2	70	Male	TCGA	833	Alive
TCGA-85- High	High	H-TMB+H-ICI score	0.35037	B	C2	1,2	63	Male	TCGA	377	Alive
TCGA-XC High	Low	L-TMB+H-ICI score	-0.0355	B	C4	1,2	77	Femal	TCGA	6	Dead
TCGA-66- High	High	H-TMB+H-ICI score	0.4994	A	C1	1,2	71	Male	TCGA	365	Dead
TCGA-68- High	High	H-TMB+H-ICI score	0.721	B	C1	3,4	73	Femal	TCGA	492	Alive
TCGA-77- High	Low	L-TMB+H-ICI score	0.91597	B	C2	1,2	63	Male	TCGA	180	Dead
TCGA-90- High	High	H-TMB+H-ICI score	2.12303	A	C1	1,2	53	Male	TCGA	688	Alive
TCGA-98- High	High	H-TMB+H-ICI score	0.16393	A	C1	3,4	70	Male	TCGA	649	Alive
TCGA-34- High	Low	L-TMB+H-ICI score	-0.0202	B	C2	1,2	71	Femal	TCGA	804	Alive
TCGA-56- Low	Low	L-TMB+L-ICI score	-2.3735	B	C1	1,2	74	Male	TCGA	378	Alive
TCGA-66- High	High	H-TMB+H-ICI score	0.24773	B	C4	1,2	68	Femal	TCGA	790	Alive
TCGA-39- High	High	H-TMB+H-ICI score	-0.3773	B	C2	1,2	65	Male	TCGA	1690	Alive
TCGA-56- Low	High	H-TMB+L-ICI score	-0.9813	B	C1	1,2	77	Femal	TCGA	666	Alive
TCGA-NK High	High	H-TMB+H-ICI score	1.45232	A	C2	1,2	70	Male	TCGA	1997	Alive
TCGA-22- High	High	H-TMB+H-ICI score	1.41622	B	C1	1,2	65	Male	TCGA	822	Dead
TCGA-39- High	High	H-TMB+H-ICI score	-0.0427	A	C4	1,2	44	Male	TCGA	3850	Alive
TCGA-63- High	High	H-TMB+H-ICI score	0.24391	A	C1	1,2	69	Femal	TCGA	456	Dead
TCGA-33- High	High	H-TMB+H-ICI score	-0.2853	A	C2	3,4	66	Male	TCGA	2979	Dead
TCGA-63- High	High	H-TMB+H-ICI score	0.40281	B	C1	1,2	74	Male	TCGA	498	Alive
TCGA-18- High	High	H-TMB+H-ICI score	1.32099	A	C4	1,2	83	Male	TCGA	973	Alive
TCGA-66- High	High	H-TMB+H-ICI score	-0.4252	B	C2	1,2	69	Male	TCGA	31	Alive
TCGA-63- High	High	H-TMB+H-ICI score	0.38364	A	C4	1,2	67	Male	TCGA	2133	Alive
TCGA-56- Low	High	H-TMB+L-ICI score	-1.2661	B	C2	1,2	79	Male	TCGA	517	Alive
TCGA-18- High	Low	L-TMB+H-ICI score	-0.489	A	C2	1,2	77	Femal	TCGA	2304	Alive
TCGA-NK High	Low	L-TMB+H-ICI score	1.66043	B	C2	1,2	57	Male	TCGA	511	Alive
TCGA-85- High	High	H-TMB+H-ICI score	-0.5015	B	C2	3,4	57	Male	TCGA	195	Alive
TCGA-22- Low	High	H-TMB+L-ICI score	-1.6324	A	C4	1,2	73	Femal	TCGA	1161	Dead
TCGA-56- High	High	H-TMB+H-ICI score	-0.4899	A	C4	1,2	76	Femal	TCGA	570	Alive
TCGA-56- Low	High	H-TMB+L-ICI score	-1.4834	B	C1	1,2	66	Femal	TCGA	3	Alive
TCGA-92- Low	Low	L-TMB+L-ICI score	-0.822	B	C3	1,2	71	Male	TCGA	106	Alive
TCGA-85- Low	High	H-TMB+L-ICI score	-1.556	B	C1	3,4	72	Male	TCGA	94	Alive
TCGA-85- High	High	H-TMB+H-ICI score	0.53781	A	C2	1,2	68	Male	TCGA	927	Alive
TCGA-77- High	High	H-TMB+H-ICI score	0.43614	A	C4	1,2	79	Male	TCGA	899	Dead
TCGA-22- High	High	H-TMB+H-ICI score	-0.5772	A	C1	3,4	57	Male	TCGA	734	Dead
TCGA-33- High	High	H-TMB+H-ICI score	1.631	B	C2	1,2	63	Femal	TCGA	1656	Dead
TCGA-56- High	High	H-TMB+H-ICI score	1.28795	A	C2	1,2	55	Male	TCGA	585	Alive
TCGA-21- High	High	H-TMB+H-ICI score	0.11865	B	C1	1,2	54	Femal	TCGA	1852	Alive
TCGA-6A High	High	H-TMB+H-ICI score	0.79843	A	C2	1,2	73	Femal	TCGA	0	Dead
TCGA-63- High	Low	L-TMB+H-ICI score	0.40744	B	C2	1,2	67	Femal	TCGA	0	Alive
TCGA-39- Low	Low	L-TMB+L-ICI score	-3.3198	B	C1	1,2	76	Male	TCGA	1679	Dead
TCGA-43- High	High	H-TMB+H-ICI score	-0.3362	A	C3	1,2	85	Male	TCGA	166	Dead
TCGA-98- High	Low	L-TMB+H-ICI score	-0.3541	B	C3	3,4	56	Femal	TCGA	84	Dead
TCGA-77- High	High	H-TMB+H-ICI score	0.17912	B	C2	1,2	64	Male	TCGA	15	Alive
TCGA-92- High	High	H-TMB+H-ICI score	-0.2529	B	C1	1,2	45	Femal	TCGA	82	Alive
TCGA-56- Low	High	H-TMB+L-ICI score	-0.917	B	C3	1,2	68	Male	TCGA	55	Alive
TCGA-70- Low	High	H-TMB+L-ICI score	-0.8535	B	C1	3,4	47	Male	TCGA	367	Alive
TCGA-43- Low	Low	L-TMB+L-ICI score	-3.7196	B	C4	1,2	76	Femal	TCGA	432	Alive
TCGA-66- High	High	H-TMB+H-ICI score	-0.3396	A	C1	1,2	79	Male	TCGA	700	Alive
TCGA-85- High	High	H-TMB+H-ICI score	0.72172	A	C2	1,2	59	Femal	TCGA	42	Alive
TCGA-58- Low	Low	L-TMB+L-ICI score	-1.9507	B	C4	1,2	60	Male	TCGA	403	Dead
TCGA-85- High	High	H-TMB+H-ICI score	1.30518	A	C2	3,4	67	Male	TCGA	161	Alive

TCGA-21- Low	High	H-TMB+L-ICI score	-0.9383 A	C2	1,2	64 Male	TCGA	1032 Alive
TCGA-33- High	High	H-TMB+H-ICI score	0.00757 A	C2	1,2	65 Femal	TCGA	1344 Dead
TCGA-56- High	High	H-TMB+H-ICI score	0.33879 B	C1	3,4	66 Femal	TCGA	315 Alive
TCGA-34- High	High	H-TMB+H-ICI score	0.45895 A	C2	1,2	76 Femal	TCGA	1874 Dead
TCGA-60- High	High	H-TMB+H-ICI score	1.69595 A	C2	1,2	56 Male	TCGA	358 Dead
TCGA-77- High	High	H-TMB+H-ICI score	-0.51 B	C2	1,2	77 Femal	TCGA	1992 Alive
TCGA-66- High	High	H-TMB+H-ICI score	-0.7683 B	C1	3,4	66 Male	TCGA	153 Dead
TCGA-68- High	Low	L-TMB+H-ICI score	-0.5574 B	C2	3,4	84 Male	TCGA	202 Alive
TCGA-94- High	Low	L-TMB+H-ICI score	0.02345 B	C2	1,2	73 Male	TCGA	5 Dead
TCGA-56- High	High	H-TMB+H-ICI score	0.78742 B	C2	1,2	72 Femal	TCGA	8 Alive
TCGA-22- Low	High	H-TMB+L-ICI score	-1.4481 A	C4	1,2	73 Femal	TCGA	358 Dead
TCGA-77- High	High	H-TMB+H-ICI score	-0.0033 B	C3	1,2	69 Male	TCGA	4765 Alive
TCGA-21- High	High	H-TMB+H-ICI score	0.18013 A	C2	1,2	66 Male	TCGA	3724 Alive
TCGA-98- High	High	H-TMB+H-ICI score	-0.0848 A	C4	1,2	64 Male	TCGA	565 Alive
TCGA-34- Low	Low	L-TMB+L-ICI score	-1.0752 B	C3	1,2	60 Male	TCGA	276 Dead
TCGA-21- High	High	H-TMB+H-ICI score	12.5014 B	C2	1,2	68 Femal	TCGA	962 Dead
TCGA-60- High	High	H-TMB+H-ICI score	0.19911 B	C3	1,2	64 Femal	TCGA	2447 Alive
TCGA-96- Low	High	H-TMB+L-ICI score	-0.8015 A	C2	1,2	65 Male	TCGA	589 Alive
TCGA-66- Low	High	H-TMB+L-ICI score	-1.5136 A	C1	1,2	56 Male	TCGA	699 Alive
TCGA-56- High	Low	L-TMB+H-ICI score	1.43424 A	C2	1,2	84 Male	TCGA	420 Alive
TCGA-22- High	High	H-TMB+H-ICI score	-0.5409 B	C2	1,2	78 Male	TCGA	1933 Dead
TCGA-21- High	Low	L-TMB+H-ICI score	0.68245 B	C2	1,2	77 Male	TCGA	979 Alive
TCGA-85- Low	Low	L-TMB+L-ICI score	-1.9472 B	C1	1,2	57 Male	TCGA	579 Alive
TCGA-21- High	High	H-TMB+H-ICI score	0.95576 B	C2	1,2	76 Male	TCGA	2680 Dead
TCGA-46- Low	High	H-TMB+L-ICI score	-1.526 B	C2	1,2	59 Femal	TCGA	405 Alive
TCGA-39- Low	Low	L-TMB+L-ICI score	-1.311 B	C4	1,2	70 Male	TCGA	2086 Dead
TCGA-90- Low	High	H-TMB+L-ICI score	-1.0205 B	C1	1,2	64 Male	TCGA	758 Alive
TCGA-39- High	High	H-TMB+H-ICI score	-0.7657 B	C4	1,2	70 Femal	TCGA	4053 Alive
TCGA-39- High	Low	L-TMB+H-ICI score	-0.3183 B	C2	1,2	70 Male	TCGA	3387 Alive
TCGA-98- High	High	H-TMB+H-ICI score	-0.1028 B	C2	1,2	63 Male	TCGA	173 Alive
TCGA-66- Low	Low	L-TMB+L-ICI score	-0.8836 A	C2	1,2	67 Male	TCGA	121 Alive
TCGA-37- High	High	H-TMB+H-ICI score	0.21442 A	C2	3,4	64 Male	TCGA	103 Alive
TCGA-56- Low	Low	L-TMB+L-ICI score	-1.6131 B	C1	1,2	74 Male	TCGA	397 Alive
TCGA-63- High	High	H-TMB+H-ICI score	0.60759 B	C2	1,2	62 Male	TCGA	3123 Alive
TCGA-60- High	High	H-TMB+H-ICI score	-0.1688 A	C2	1,2	66 Male	TCGA	908 Alive
TCGA-85- High	Low	L-TMB+H-ICI score	0.70518 B	C1	1,2	62 Male	TCGA	765 Alive
TCGA-56- High	High	H-TMB+H-ICI score	1.34681 B	C2	3,4	66 Male	TCGA	442 Alive
TCGA-43- High	High	H-TMB+H-ICI score	-0.0926 B	C1	1,2	72 Femal	TCGA	407 Alive
TCGA-18- High	High	H-TMB+H-ICI score	-0.6872 B	C2	1,2	57 Male	TCGA	1519 Alive
TCGA-77- High	High	H-TMB+H-ICI score	-0.1891 B	C3	1,2	65 Male	TCGA	3253 Dead
TCGA-60- High	High	H-TMB+H-ICI score	0.02262 A	C2	1,2	83 Femal	TCGA	1297 Alive
TCGA-22- High	High	H-TMB+H-ICI score	0.16148 B	C3	1,2	79 Male	TCGA	24 Dead
TCGA-66- High	High	H-TMB+H-ICI score	0.3684 A	C2	1,2	65 Femal	TCGA	1338 Alive
TCGA-18- High	High	H-TMB+H-ICI score	-0.3917 A	C1	1,2	67 Male	TCGA	371 Dead
TCGA-77- High	Low	L-TMB+H-ICI score	-0.6167 B	C1	1,2	90 Male	TCGA	0 Dead
TCGA-21- High	High	H-TMB+H-ICI score	-0.1952 A	C4	3,4	60 Femal	TCGA	3636 Alive
TCGA-43- High	High	H-TMB+H-ICI score	2.11877 A	C4	1,2	67 Femal	TCGA	296 Alive
TCGA-85- High	Low	L-TMB+H-ICI score	-0.1316 B	C3	1,2	48 Male	TCGA	952 Alive
TCGA-85- Low	High	H-TMB+L-ICI score	-0.8902 B	C3	1,2	50 Male	TCGA	35 Alive
TCGA-NC High	High	H-TMB+H-ICI score	0.23407 B	C2	3,4	69 Male	TCGA	804 Alive
TCGA-58- High	High	H-TMB+H-ICI score	1.08689 A	C4	1,2	68 Femal	TCGA	1058 Alive
TCGA-66- High	High	H-TMB+H-ICI score	-0.0418 B	C1	1,2	72 Male	TCGA	61 Alive
TCGA-LA- High	Low	L-TMB+H-ICI score	1.10944 B	C2	3,4	71 Male	TCGA	408 Alive
TCGA-77- High	Low	L-TMB+H-ICI score	-0.2522 B	C1	1,2	68 Male	TCGA	198 Dead
TCGA-85- High	High	H-TMB+H-ICI score	-0.3251 A	C2	1,2	53 Male	TCGA	995 Alive
TCGA-22- Low	Low	L-TMB+L-ICI score	-2.0872 A	C4	1,2	74 Male	TCGA	445 Dead
TCGA-77- High	High	H-TMB+H-ICI score	-0.2587 A	C2	1,2	69 Femal	TCGA	632 Dead
TCGA-22- High	High	H-TMB+H-ICI score	0.01761 B	C2	3,4	73 Femal	TCGA	1057 Dead
TCGA-66- High	High	H-TMB+H-ICI score	-0.2994 A	C4	3,4	64 Male	TCGA	1645 Alive
TCGA-22- High	High	H-TMB+H-ICI score	0.63158 A	C2	1,2	62 Male	TCGA	1485 Dead
TCGA-77- High	Low	L-TMB+H-ICI score	-0.1276 B	C2	1,2	76 Male	TCGA	1280 Alive
TCGA-56- High	High	H-TMB+H-ICI score	0.30311 B	C2	1,2	60 Male	TCGA	562 Alive
TCGA-85- High	High	H-TMB+H-ICI score	-0.6905 A	C1	3,4	73 Male	TCGA	1001 Alive
TCGA-66- High	High	H-TMB+H-ICI score	-0.6977 A	C4	1,2	71 Male	TCGA	639 Alive
TCGA-85- High	High	H-TMB+H-ICI score	3.38559 A	C1	1,2	46 Male	TCGA	576 Alive
TCGA-39- High	High	H-TMB+H-ICI score	-0.7515 B	C3	1,2	73 Femal	TCGA	1107 Dead
TCGA-85- High	Low	L-TMB+H-ICI score	-0.6457 B	C2	1,2	53 Male	TCGA	734 Alive
TCGA-43- High	Low	L-TMB+H-ICI score	0.06661 B	C2	1,2	52 Male	TCGA	1190 Alive
TCGA-NK High	Low	L-TMB+H-ICI score	-0.2506 A	C2	1,2	73 Male	TCGA	111 Alive
TCGA-39- Low	Low	L-TMB+L-ICI score	-0.9224 A	C4	1,2	72 Femal	TCGA	2080 Alive
TCGA-43- High	Low	L-TMB+H-ICI score	-0.5703 B	C1	1,2	69 Femal	TCGA	757 Alive
TCGA-18- Low	Low	L-TMB+L-ICI score	-1.5888 B	C3	1,2	64 Male	TCGA	85 Dead
TCGA-NC High	High	H-TMB+H-ICI score	0.2996 A	C2	3,4	74 Male	TCGA	138 Dead
TCGA-39- Low	Low	L-TMB+L-ICI score	-0.8604 A	C4	3,4	67 Male	TCGA	740 Dead
TCGA-43- High	High	H-TMB+H-ICI score	-0.5911 A	C4	1,2	78 Male	TCGA	559 Alive
TCGA-22- High	High	H-TMB+H-ICI score	-0.3795 B	C2	1,2	80 Femal	TCGA	429 Dead
TCGA-34- High	High	H-TMB+H-ICI score	-0.1319 A	C1	3,4	62 Femal	TCGA	1180 Alive
TCGA-60- Low	Low	L-TMB+L-ICI score	-3.2629 B	C1	1,2	69 Male	TCGA	1505 Alive
TCGA-85- High	High	H-TMB+H-ICI score	0.50802 B	C2	1,2	46 Male	TCGA	465 Alive
TCGA-NC High	High	H-TMB+H-ICI score	0.632 A	C2	1,2	68 Femal	TCGA	1743 Alive
TCGA-18- High	High	H-TMB+H-ICI score	0.54158 B	C1	1,2	74 Male	TCGA	3747 Alive
TCGA-56- High	High	H-TMB+H-ICI score	1.10083 A	C4	1,2	55 Femal	TCGA	818 Alive
TCGA-85- High	High	H-TMB+H-ICI score	0.7273 B	C3	1,2	70 Male	TCGA	402 Alive
TCGA-18- High	High	H-TMB+H-ICI score	2.17495 A	C4	1,2	81 Male	TCGA	146 Dead
TCGA-22- Low	Low	L-TMB+L-ICI score	-2.3024 B	C1	1,2	76 Male	TCGA	454 Dead
TCGA-66- High	Low	L-TMB+H-ICI score	-0.2786 A	C4	3,4	68 Femal	TCGA	578 Alive
TCGA-34- High	High	H-TMB+H-ICI score	0.62373 A	C1	3,4	75 Male	TCGA	1834 Alive
TCGA-34- High	High	H-TMB+H-ICI score	-0.0619 B	C2	3,4	67 Male	TCGA	123 Dead
TCGA-66- High	Low	L-TMB+H-ICI score	-0.523 A	C4	1,2	64 Male	TCGA	61 Alive
TCGA-85- High	High	H-TMB+H-ICI score	-0.6967 A	C2	3,4	70 Male	TCGA	307 Alive
TCGA-92- High	High	H-TMB+H-ICI score	-0.4992 A	C4	1,2	74 Femal	TCGA	70 Alive
TCGA-46- Low	High	H-TMB+L-ICI score	-2.2234 B	C1	1,2	62 Femal	TCGA	370 Alive
TCGA-77- Low	Low	L-TMB+L-ICI score	-2.4316 A	C1	1,2	72 Male	TCGA	383 Dead
TCGA-94- High	High	H-TMB+H-ICI score	-0.2255 B	C2	1,2	61 Male	TCGA	491 Alive
TCGA-18- Low	Low	L-TMB+L-ICI score	-1.4283 B	C3	1,2	72 Male	TCGA	136 Dead
TCGA-77- Low	High	H-TMB+L-ICI score	-1.6228 B	C2	1,2	72 Male	TCGA	3166 Alive
TCGA-21- High	Low	L-TMB+H-ICI score	1.06673 A	C2	1,2	77 Male	TCGA	474 Dead
TCGA-18- Low	High	H-TMB+L-ICI score	-1.6212 A	C2	3,4	63 Femal	TCGA	3576 Alive

TCGA-66- High	High	H-TMB+H-ICI score	-0.1397 B	C2	3,4	70 Male	TCGA	641 Alive
TCGA-56- High	High	H-TMB+H-ICI score	0.34449 B	C2	1,2	58 Male	TCGA	881 Dead
TCGA-77- High	High	H-TMB+H-ICI score	0.24346 A	C2	1,2	63 Male	TCGA	4570 Alive
TCGA-22- High	Low	L-TMB+H-ICI score	-0.5119 B	C2	1,2	81 Male	TCGA	357 Dead
TCGA-NK High	Low	L-TMB+H-ICI score	0.27315 A	C2	3,4	66 Male	TCGA	13 Alive
TCGA-22- Low	High	H-TMB+L-ICI score	-2.5396 B	C1	1,2	64 Male	TCGA	1912 Dead
TCGA-O2 High	Low	L-TMB+H-ICI score	0.56683 A	C2	1,2	63 Male	TCGA	261 Dead
TCGA-52- High	High	H-TMB+H-ICI score	0.04172 A	C4	1,2	68 Male	TCGA	835 Dead
TCGA-46- High	High	H-TMB+H-ICI score	-0.184 B	C2	1,2	71 Male	TCGA	324 Alive
TCGA-58- High	High	H-TMB+H-ICI score	-0.1013 B	C2	3,4	57 Femal	TCGA	2167 Alive
TCGA-85- High	Low	L-TMB+H-ICI score	0.20795 B	C2	1,2	47 Male	TCGA	826 Alive
TCGA-18- High	High	H-TMB+H-ICI score	-0.7378 B	C3	3,4	65 Male	TCGA	1097 Alive
TCGA-60- High	High	H-TMB+H-ICI score	0.06185 B	C3	3,4	47 Male	TCGA	717 Alive
TCGA-94- High	High	H-TMB+H-ICI score	-0.1052 B	C2	1,2	62 Male	TCGA	538 Alive
TCGA-43- High	High	H-TMB+H-ICI score	-0.1273 B	C2	1,2	73 Male	TCGA	358 Alive
TCGA-34- High	Low	L-TMB+H-ICI score	0.63726 A	C1	1,2	79 Male	TCGA	515 Alive
TCGA-77- High	Low	L-TMB+H-ICI score	-0.7455 B	C3	1,2	64 Male	TCGA	5 Dead
TCGA-56- High	High	H-TMB+H-ICI score	0.25474 B	C2	1,2	75 Male	TCGA	532 Alive
TCGA-85- High	High	H-TMB+H-ICI score	-0.2184 B	C3	1,2	84 Male	TCGA	604 Alive
TCGA-66- High	Low	L-TMB+H-ICI score	-0.2521 B	C2	1,2	58 Male	TCGA	913 Alive
TCGA-98- High	High	H-TMB+H-ICI score	0.3531 A	C2	1,2	70 Male	TCGA	552 Alive
TCGA-22- Low	High	H-TMB+L-ICI score	-3.4668 B	C1	3,4	60 Femal	TCGA	1470 Dead
TCGA-58- High	High	H-TMB+H-ICI score	-0.0557 A	C1	3,4	75 Male	TCGA	1 Dead
TCGA-22- High	High	H-TMB+H-ICI score	-0.5907 A	C2	1,2	72 Femal	TCGA	2409 Dead
TCGA-66- High	High	H-TMB+H-ICI score	2.05383 A	C2	3,4	67 Male	TCGA	61 Alive
TCGA-21- High	High	H-TMB+H-ICI score	0.01745 A	C4	1,2	61 Male	TCGA	3644 Alive
TCGA-58- High	Low	L-TMB+H-ICI score	-0.3007 B	C2	1,2	70 Male	TCGA	501 Dead
TCGA-60- High	High	H-TMB+H-ICI score	-0.4783 B	C1	1,2	64 Male	TCGA	1731 Alive
TCGA-22- Low	High	H-TMB+L-ICI score	-1.0845 B	C2	1,2	64 Male	TCGA	2625 Alive
TCGA-37- High	High	H-TMB+H-ICI score	-0.3602 A	C2	3,4	63 Male	TCGA	238 Alive
TCGA-63- High	High	H-TMB+H-ICI score	-0.4483 A	C2	1,2	48 Male	TCGA	0 Dead
TCGA-66- High	High	H-TMB+H-ICI score	-0.7608 A	C1	3,4	75 Male	TCGA	215 Dead
TCGA-LA- High	High	H-TMB+H-ICI score	-0.1563 A	C2	1,2	68 Male	TCGA	401 Alive
TCGA-66- High	High	H-TMB+H-ICI score	-0.623 A	C4	3,4	66 Male	TCGA	762 Alive
TCGA-22- Low	High	H-TMB+L-ICI score	-2.0586 B	C1	1,2	81 Male	TCGA	291 Dead
TCGA-66- High	High	H-TMB+H-ICI score	-0.113 A	C4	1,2	69 Male	TCGA	92 Dead
TCGA-66- High	High	H-TMB+H-ICI score	-0.2162 B	C1	1,2	63 Male	TCGA	28 Alive
TCGA-77- High	Low	L-TMB+H-ICI score	-0.2808 A	C2	3,4	64 Male	TCGA	1655 Dead
TCGA-37- High	High	H-TMB+H-ICI score	0.6784 A	C2	1,2	53 Male	TCGA	1143 Alive
TCGA-77- High	Low	L-TMB+H-ICI score	-0.1033 B	C2	1,2	68 Male	TCGA	1695 Alive
TCGA-33- High	High	H-TMB+H-ICI score	-0.0967 B	C2	1,2	59 Femal	TCGA	1114 Dead
TCGA-58- High	High	H-TMB+H-ICI score	-0.2024 A	C2	1,2	52 Male	TCGA	910 Alive
TCGA-33- High	High	H-TMB+H-ICI score	-0.0358 B	C2	1,2	83 Male	TCGA	2249 Dead
TCGA-63- High	High	H-TMB+H-ICI score	0.48889 B	C1	1,2	78 Male	TCGA	2381 Alive
TCGA-43- High	High	H-TMB+H-ICI score	-0.3283 B	C2	1,2	66 Male	TCGA	353 Alive
TCGA-43- High	High	H-TMB+H-ICI score	-0.3221 B	C2	1,2	59 Femal	TCGA	653 Alive
TCGA-22- High	Low	L-TMB+H-ICI score	0.04231 B	C2	1,2	75 Male	TCGA	587 Dead
TCGA-58- High	Low	L-TMB+H-ICI score	0.04899 A	C2	3,4	59 Male	TCGA	1045 Dead
TCGA-77- High	High	H-TMB+H-ICI score	1.03213 A	C4	1,2	58 Male	TCGA	990 Alive
TCGA-18- Low	High	H-TMB+L-ICI score	-1.8989 B	C1	1,2	74 Male	TCGA	4694 Alive
TCGA-85- High	High	H-TMB+H-ICI score	0.07552 A	C4	1,2	65 Male	TCGA	921 Alive
TCGA-22- Low	High	H-TMB+L-ICI score	-1.2318 B	C1	1,2	73 Male	TCGA	399 Dead
TCGA-56- High	High	H-TMB+H-ICI score	-0.3689 B	C2	1,2	73 Male	TCGA	198 Alive
TCGA-39- High	Low	L-TMB+H-ICI score	-0.2239 A	C3	1,2	76 Male	TCGA	544 Dead
TCGA-J1- Low	High	H-TMB+L-ICI score	-1.5999 B	C2	1,2	70 Male	TCGA	581 Alive
TCGA-92- High	High	H-TMB+H-ICI score	-0.2234 A	C2	3,4	52 Male	TCGA	122 Alive
TCGA-46- High	High	H-TMB+H-ICI score	-0.5806 A	C1	1,2	57 Male	TCGA	135 Alive
TCGA-43- High	High	H-TMB+H-ICI score	0.0668 B	C2	1,2	55 Femal	TCGA	89 Dead
TCGA-NC High	High	H-TMB+H-ICI score	0.91726 A	C2	3,4	70 Femal	TCGA	1336 Alive
TCGA-22- High	Low	L-TMB+H-ICI score	-0.7634 B	C1	1,2	78 Femal	TCGA	974 Dead
TCGA-60- Low	High	H-TMB+L-ICI score	-1.245 A	C4	1,2	66 Femal	TCGA	1531 Alive
TCGA-33- High	High	H-TMB+H-ICI score	0.16256 B	C2	3,4	80 Male	TCGA	1927 Alive
TCGA-63- High	Low	L-TMB+H-ICI score	1.58834 B	C1	1,2	69 Male	TCGA	1100 Alive
TCGA-85- High	High	H-TMB+H-ICI score	-0.6947 B	C3	1,2	56 Femal	TCGA	1038 Alive
TCGA-NC High	High	H-TMB+H-ICI score	0.97354 A	C2	1,2	58 Femal	TCGA	128 Alive
TCGA-43- High	High	H-TMB+H-ICI score	2.04207 B	C1	1,2	71 Male	TCGA	1007 Alive
TCGA-21- High	High	H-TMB+H-ICI score	-0.2388 A	C2	1,2	75 Male	TCGA	3016 Alive
TCGA-98- High	High	H-TMB+H-ICI score	1.64198 B	C2	1,2	69 Male	TCGA	61 Dead
TCGA-85- High	Low	L-TMB+H-ICI score	-0.1122 A	C2	1,2	60 Male	TCGA	932 Alive
TCGA-68- High	High	H-TMB+H-ICI score	1.03185 A	C2	1,2	74 Femal	TCGA	448 Alive
TCGA-66- High	High	H-TMB+H-ICI score	-0.278 B	C2	3,4	54 Male	TCGA	31 Alive
TCGA-NC High	High	H-TMB+H-ICI score	0.83484 A	C2	1,2	75 Femal	TCGA	1244 Alive
TCGA-NC High	High	H-TMB+H-ICI score	2.082 A	C4	1,2	60 Male	TCGA	2336 Alive
TCGA-98- High	High	H-TMB+H-ICI score	2.7239 B	C1	1,2	68 Male	TCGA	645 Alive
TCGA-66- Low	High	H-TMB+L-ICI score	-1.6518 B	C2	3,4	67 Male	TCGA	759 Alive
TCGA-77- High	Low	L-TMB+H-ICI score	0.24802 B	C2	1,2	67 Male	TCGA	340 Dead
TCGA-56- High	High	H-TMB+H-ICI score	0.36051 B	C2	1,2	63 Male	TCGA	481 Alive
TCGA-79- High	High	H-TMB+H-ICI score	-0.4087 B	C2	3,4	67 Male	TCGA	0 Alive
TCGA-63- High	High	H-TMB+H-ICI score	-0.1611 B	C3	1,2	54 Male	TCGA	1824 Alive
TCGA-56- Low	High	H-TMB+L-ICI score	-1.9323 B	C1	1,2	67 Male	TCGA	0 Alive
TCGA-51- High	High	H-TMB+H-ICI score	0.21641 B	C2	1,2	55 Male	TCGA	911 Alive
TCGA-34- High	High	H-TMB+H-ICI score	1.51635 A	C2	1,2	70 Femal	TCGA	1361 Alive
TCGA-85- High	High	H-TMB+H-ICI score	0.15708 B	C3	1,2	49 Male	TCGA	1160 Alive
TCGA-77- High	High	H-TMB+H-ICI score	0.26803 B	C2	1,2	67 Male	TCGA	1841 Alive
TCGA-77- High	High	H-TMB+H-ICI score	0.76426 A	C2	3,4	74 Male	TCGA	2284 Dead
TCGA-85- High	High	H-TMB+H-ICI score	-0.0731 A	C2	1,2	52 Femal	TCGA	1113 Alive
TCGA-56- High	Low	L-TMB+H-ICI score	0.90845 A	C1	1,2	75 Femal	TCGA	640 Alive
TCGA-21- High	High	H-TMB+H-ICI score	1.05567 B	C2	1,2	75 Male	TCGA	1315 Dead
TCGA-46- High	Low	L-TMB+H-ICI score	0.01736 A	C1	1,2	76 Male	TCGA	396 Alive
TCGA-56- High	Low	L-TMB+H-ICI score	-0.4151 A	C2	1,2	69 Male	TCGA	555 Alive
TCGA-68- High	High	H-TMB+H-ICI score	0.04515 B	C3	1,2	74 Male	TCGA	211 Alive
TCGA-56- High	High	H-TMB+H-ICI score	1.50135 B	C4	3,4	67 Male	TCGA	637 Alive
TCGA-18- High	Low	L-TMB+H-ICI score	-0.3029 A	C2	1,2	52 Male	TCGA	345 Dead
TCGA-37- High	High	H-TMB+H-ICI score	-0.6077 A	C4	3,4	61 Femal	TCGA	227 Alive
TCGA-22- High	High	H-TMB+H-ICI score	0.03492 B	C3	1,2	74 Male	TCGA	573 Dead
TCGA-85- High	High	H-TMB+H-ICI score	0.2221 B	C2	1,2	74 Male	TCGA	942 Alive
TCGA-60- High	Low	L-TMB+H-ICI score	-0.0763 B	C1	1,2	74 Male	TCGA	816 Alive
TCGA-77- High	High	H-TMB+H-ICI score	-0.0658 A	C2	1,2	75 Male	TCGA	1423 Dead

TCGA-33- High	High	H-TMB+H-ICI score	0.09179 B	C2	1,2	60 Male	TCGA	3600 Dead
TCGA-43- High	Low	L-TMB+H-ICI score	-0.3925 B	C2	1,2	68 Femal	TCGA	236 Alive
TCGA-22- High	High	H-TMB+H-ICI score	1.19022 B	C2	1,2	70 Male	TCGA	671 Alive
TCGA-90- High	High	H-TMB+H-ICI score	-0.3304 B	C2	1,2	55 Male	TCGA	358 Alive
TCGA-21- Low	High	H-TMB+L-ICI score	-1.4828 B	C2	1,2	64 Male	TCGA	1058 Dead
TCGA-NC High	High	H-TMB+H-ICI score	1.5306 A	C2	3,4	70 Male	TCGA	448 Dead
TCGA-60- High	High	H-TMB+H-ICI score	-0.6876 A	C4	1,2	76 Femal	TCGA	109 Dead
TCGA-22- High	High	H-TMB+H-ICI score	0.03327 A	C2	3,4	80 Male	TCGA	623 Dead
TCGA-77- High	Low	L-TMB+H-ICI score	0.28225 A	C2	3,4	76 Male	TCGA	803 Dead
TCGA-NK High	High	H-TMB+H-ICI score	-0.5511 B	C2	1,2	77 Male	TCGA	2542 Alive
TCGA-56- High	High	H-TMB+H-ICI score	0.24435 B	C2	1,2	58 Femal	TCGA	1011 Alive
TCGA-63- Low	Low	L-TMB+L-ICI score	-2.4732 A	C1	1,2	78 Femal	TCGA	345 Dead
TCGA-52- High	High	H-TMB+H-ICI score	-0.6236 B	C4	1,2	62 Femal	TCGA	862 Alive
GSM442070				C1	1,2	64 Femal	GSE17710	150.8008215
GSM442071				C1	1,2	61 Male	GSE17710	172.4845995
GSM442072				C1	1,2	61 Femal	GSE17710	666.2833677
GSM442073				C1	1,2	80 Femal	GSE17710	119.2607802
GSM442074				C1	1,2	68 Femal	GSE17710	151.7864475
GSM442075				C1	1,2	61 Male	GSE17710	41.396304
GSM442076				C1	1,2	59 Femal	GSE17710	371.5811088
GSM442077				C1	1,2	57 Femal	GSE17710	1.9712526
GSM442078				C1	1,2	73 Femal	GSE17710	1609.527721
GSM442079				C1	1,2	74 Male	GSE17710	2527.145791
GSM442080				C1	1,2	53 Male	GSE17710	112.3613964
GSM442081				C1	1,2	68 Femal	GSE17710	1114.743326
GSM442082				C1	1,2	69 Femal	GSE17710	1321.724846
GSM442083				C1	1,2	76 Femal	GSE17710	594.332649
GSM442084				C1	1,2	63 Male	GSE17710	488.8706367
GSM442085				C1	1,2	55 Male	GSE17710	3429.979466
GSM442086				C1	1,2	49 Femal	GSE17710	532.238193
GSM442087				C1	1,2	81 Male	GSE17710	1277.371663
GSM442088				C1	3,4	82 Male	GSE17710	825.9548256
GSM442089				C1	1,2	61 Femal	GSE17710	1008.295688
GSM442090				C1	1,2	73 Male	GSE17710	12.8131416
GSM442091				C1	1,2	65 Femal	GSE17710	931.4168379
GSM442092				C1	1,2	61 Femal	GSE17710	447.4743327
GSM442093				C1	1,2	53 Male	GSE17710	653.4702258
GSM442094				C1	1,2	76 Male	GSE17710	94.6201233
GSM442095				C1	1,2	83 Femal	GSE17710	702.7515399
GSM442096				C1	1,2	85 Male	GSE17710	2441.396304
GSM442097				C1	1,2	42 Femal	GSE17710	231.6221766
GSM442098				C3	1,2	62 Male	GSE17710	1162.053388
GSM442099				C1	1,2	78 Male	GSE17710	18.7268994
GSM442100				C1	1,2	58 Femal	GSE17710	647.5564683
GSM442101				C1	1,2	81 Male	GSE17710	764.8459959
GSM442102				C1	1,2	79 Male	GSE17710	9.8562627
GSM442103				C1	1,2	73 Femal	GSE17710	1829.322382
GSM442104				C1	1,2	50 Femal	GSE17710	1766.2423
GSM442105				C1	1,2	65 Male	GSE17710	803.285421
GSM442106				C1	1,2	67 Male	GSE17710	411.9917865
GSM442107				C1	1,2	81 Femal	GSE17710	1477.453799
GSM442108				C1	1,2	73 Male	GSE17710	1543.49076
GSM442109				C1	1,2	80 Male	GSE17710	729.3634497
GSM442110				C1	1,2	49 Male	GSE17710	882.1355235
GSM442111				C1	1,2	75 Femal	GSE17710	834.825462
GSM442112				C1	1,2	59 Male	GSE17710	405.0924024
GSM442113				C1	1,2	73 Male	GSE17710	1049.691992
GSM442114				C1	1,2	67 Male	GSE17710	509.5687884
GSM442115				C1	1,2	67 Femal	GSE17710	24.6406572
GSM442116				C1	1,2	52 Male	GSE17710	799.3429158
GSM442117				C1	1,2	41 Femal	GSE17710	481.9712526
GSM442118				C1	1,2	70 Male	GSE17710	466.2012321
GSM442119				C1	3,4	68 Male	GSE17710	899.8767966
GSM442120				C1	1,2	78 Femal	GSE17710	822.0123204
GSM442121				C1	1,2	70 Male	GSE17710	487.8850104
GSM442122				C1	1,2	70 Male	GSE17710	4.9281315
GSM442123				C1	1,2	66 Male	GSE17710	373.5523614
GSM442124				C3	3,4	67 Male	GSE17710	691.9096509
GSM442125				C1	1,2	63 Male	GSE17710	630.8008215
GSM4750621				C1		63 Male	GSE157010	1259.506849
GSM4750622				C1	1	78 Male	GSE157010	993.2054795
GSM4750623				C3	0	68 Male	GSE157010	2071.232877
GSM4750624				C3	0	71 Female	GSE157010	2836.60274
GSM4750625				C3	1	83 Male	GSE157010	452.7123288
GSM4750626				C4	1	63 Female	GSE157010	835.3972603
GSM4750627				C3	0	73 Male	GSE157010	1945.972603
GSM4750628				C2	1	71 Male	GSE157010	234.739726
GSM4750629				C3	1	60 Male	GSE157010	690.4109589
GSM4750630				C3	0	76 Female	GSE157010	1045.479452
GSM4750631				C2	1	72 Male	GSE157010	581.9178082
GSM4750632				C1	0	78 Male	GSE157010	1919.342466
GSM4750633				C2	1	72 Male	GSE157010	982.3561644
GSM4750634				C1	1	71 Female	GSE157010	1091.835616
GSM4750635				C3	1	68 Female	GSE157010	671.6712329
GSM4750636				C2	0	59 Male	GSE157010	1880.876712
GSM4750637				C2	0	83 Female	GSE157010	1959.780822
GSM4750638				C1	1	57 Female	GSE157010	323.5068493
GSM4750639				C4	1	52 Male	GSE157010	1534.684932
GSM4750640				C1	1	66 Male	GSE157010	226.8493151
GSM4750641				C2	0	55 Female	GSE157010	238.6849315
GSM4750642				C1	0	79 Male	GSE157010	2388.821918
GSM4750643				C1	0	62 Female	GSE157010	1802.958904
GSM4750644				C2	0	51 Female	GSE157010	1843.39726
GSM4750645				C3	1	81 Female	GSE157010	967.5616438
GSM4750646				C1	0	75 Male	GSE157010	1820.712329
GSM4750647				C2	1	59 Male	GSE157010	1609.643836
GSM4750648				C2	0	62 Male	GSE157010	1868.054795
GSM4750649				C1	0	74 Male	GSE157010	2327.671233

GSM4750650	C1	1	79 Male	GSE157010	966.5753425
GSM4750651	C3	0	64 Female	GSE157010	1815.780822
GSM4750652	C3	1	55 Female	GSE157010	258.4109589
GSM4750653	C2	0	72 Female	GSE157010	2216.219178
GSM4750654	C1	1	72 Male	GSE157010	176.5479452
GSM4750655	C2	1	70 Male	GSE157010	962.630137
GSM4750656	C1	1	84 Female	GSE157010	836.3835616
GSM4750657	C1	1	81 Female	GSE157010	691.3972603
GSM4750658	C3	0	66 Male	GSE157010	2113.643836
GSM4750659	C4	0	68 Female	GSE157010	1935.123288
GSM4750660	C4	0	63 Male	GSE157010	1830.575342
GSM4750661	C2	0	73 Male	GSE157010	1835.506849
GSM4750662	C1	0	79 Male	GSE157010	1808.876712
GSM4750663	C1	0	61 Male	GSE157010	1151.013699
GSM4750664	C1	1	54 Male	GSE157010	1389.69863
GSM4750665	C1	1	66 Female	GSE157010	1596.821918
GSM4750666	C1	1	74 Female	GSE157010	1670.794521
GSM4750667	C1	0	81 Male	GSE157010	1996.273973
GSM4750668	C1	1	61 Male	GSE157010	1670.794521
GSM4750669	C2	1	75 Male	GSE157010	280.109589
GSM4750670	C2	1	64 Female	GSE157010	160.7671233
GSM4750671	C1	1	83 Male	GSE157010	788.0547945
GSM4750672	C2	1	60 Male	GSE157010	308.7123288
GSM4750673	C1	0	58 Male	GSE157010	1010.958904
GSM4750674	C1	0	66 Female	GSE157010	1743.780822
GSM4750675	C1	0	64 Female	GSE157010	1805.917808
GSM4750676	C1	0	59 Male	GSE157010	1639.232877
GSM4750677	C1	1	57 Female	GSE157010	1216.109589
GSM4750678	C2	0	74 Male	GSE157010	1513.972603
GSM4750679	C2	1	64 Male	GSE157010	839.3424658
GSM4750680	C4	1	62 Female	GSE157010	1746.739726
GSM4750681	C2	0	66 Male	GSE157010	4.931506849
GSM4750682	C1	0	71 Male	GSE157010	1999.232877
GSM4750683	C2	1	66 Male	GSE157010	751.5616438
GSM4750684	C1	1	79 Male	GSE157010	775.2328767
GSM4750685	C3	0	57 Female	GSE157010	1668.821918
GSM4750686	C4	0	64 Male	GSE157010	964.6027397
GSM4750687	C2	1	88 Male	GSE157010	1030.684932
GSM4750688	C1	0	70 Female	GSE157010	1852.273973
GSM4750689	C2	1	63 Male	GSE157010	237.6986301
GSM4750690	C2	0	79 Female	GSE157010	1886.794521
GSM4750691	C4	0	71 Male	GSE157010	2344.438356
GSM4750692	C1	1	72 Female	GSE157010	1387.726027
GSM4750693	C3	1	62 Male	GSE157010	843.2876712
GSM4750694	C2	1	55 Male	GSE157010	228.8219178
GSM4750695	C1	1	68 Male	GSE157010	1424.219178
GSM4750696	C2	0	72 Male	GSE157010	203.1780822
GSM4750697	C1	1	76 Male	GSE157010	119.3424658
GSM4750698	C1	1	63 Male	GSE157010	295.890411
GSM4750699	C1	1	81 Male	GSE157010	947.8356164
GSM4750700	C1	0	72 Male	GSE157010	2070.246575
GSM4750701	C1	1	78 Female	GSE157010	1325.589041
GSM4750702	C2	1	67 Male	GSE157010	1370.958904
GSM4750703	C1	0	63 Male	GSE157010	1855.232877
GSM4750704	C2	0	67 Male	GSE157010	1944
GSM4750705	C1	1	64 Female	GSE157010	2016
GSM4750706	C2	0	61 Female	GSE157010	1857.205479
GSM4750707	C2	0	79 Male	GSE157010	2037.69863
GSM4750708	C1	1	82 Male	GSE157010	1902.575342
GSM4750709	C1	1	65 Male	GSE157010	498.0821918
GSM4750710	C3	1	64 Male	GSE157010	382.6849315
GSM4750711	C1	0	69 Male	GSE157010	2079.123288
GSM4750712	C1	1	64 Female	GSE157010	1368.986301
GSM4750713	C1	1	82 Female	GSE157010	975.4520548
GSM4750714	C3	1	69 Male	GSE157010	1477.479452
GSM4750715	C1	1	52 Female	GSE157010	2160.986301
GSM4750716	C2	0	73 Male	GSE157010	1886.794521
GSM4750717	C1	0	89 Female	GSE157010	2106.739726
GSM4750718	C2	1	80 Male	GSE157010	1424.219178
GSM4750719	C1	1	70 Male	GSE157010	635.1780822
GSM4750720	C4	0	79 Male	GSE157010	2084.054795
GSM4750721	C1	1	77 Female	GSE157010	2714.30137
GSM4750722	C1	0	69 Male	GSE157010	1823.671233
GSM4750723	C1	0	65 Male	GSE157010	2164.931507
GSM4750724	C1	0	73 Male	GSE157010	2040.657534
GSM4750725	C1	0	54 Male	GSE157010	3062.465753
GSM4750726	C1	1	61 Male	GSE157010	1739.835616
GSM4750727	C1	1	61 Female	GSE157010	532.6027397
GSM4750728	C1	1	71 Male	GSE157010	1423.232877
GSM4750729	C2	0	48 Female	GSE157010	2160.986301
GSM4750730	C1	1	78 Female	GSE157010	976.4383562
GSM4750731	C3	0	80 Male	GSE157010	2385.863014
GSM4750732	C2	0	60 Female	GSE157010	2002.191781
GSM4750733	C1	0	79 Female	GSE157010	1871.013699
GSM4750734	C2	0	59 Male	GSE157010	1851.287671
GSM4750735	C1	1	82 Female	GSE157010	485.260274
GSM4750736	C1	1	84 Male	GSE157010	1430.136986
GSM4750737	C1	0	68 Female	GSE157010	2539.726027
GSM4750738	C1	0	63 Male	GSE157010	1853.260274
GSM4750739	C2	0	69 Male	GSE157010	1832.547945
GSM4750740	C1	0	65 Male	GSE157010	1995.287671
GSM4750741	C1	0	63 Male	GSE157010	2003.178082
GSM4750742	C1	0	51 Male	GSE157010	2065.315068
GSM4750743	C1	0	64 Male	GSE157010	2029.808219
GSM4750744	C1	1	72 Male	GSE157010	1339.39726
GSM4750745	C2	1	73 Male	GSE157010	169.6438356
GSM4750746	C1	1	60 Male	GSE157010	1552.438356
GSM4750747	C3	0	72 Female	GSE157010	1832.547945

GSM4750748	C1	1	76 Male	GSE157010	734.7945205
GSM4750749	C4	0	63 Female	GSE157010	2130.410959
GSM4750750	C1	1	84 Male	GSE157010	137.0958904
GSM4750751	C1	0	63 Female	GSE157010	1996.273973
GSM4750752	C2	1	65 Male	GSE157010	878.7945205
GSM4750753	C1	0	75 Male	GSE157010	1924.273973
GSM4750754	C1	1	61 Male	GSE157010	622.3561644
GSM4750755	C2	0	67 Male	GSE157010	2069.260274
GSM4750756	C1	0	74 Male	GSE157010	1140.164384
GSM4750757	C1	0	71 Female	GSE157010	1967.671233
GSM4750758	C1	1	65 Male	GSE157010	1812.821918
GSM4750759	C1	0	79 Female	GSE157010	1863.123288
GSM4750760	C1	1	80 Male	GSE157010	1949.917808
GSM4750761	C3	1	78 Male	GSE157010	292.9315068
GSM4750762	C2	0	66 Male	GSE157010	1823.671233
GSM4750763	C1	1	82 Female	GSE157010	595.7260274
GSM4750764	C2	0	65 Female	GSE157010	1921.315068
GSM4750765	C1	0	78 Male	GSE157010	1671.780822
GSM4750766	C4	1	70 Male	GSE157010	804.8219178
GSM4750767	C2	1	59 Male	GSE157010	911.3424658
GSM4750768	C1	0	85 Female	GSE157010	2611.726027
GSM4750769	C3	0	65 Female	GSE157010	1178.630137
GSM4750770	C2	1	74 Female	GSE157010	1533.69863
GSM4750771	C4	1	76 Female	GSE157010	1876.931507
GSM4750772	C1	1	74 Male	GSE157010	1570.191781
GSM4750773	C2	1	61 Female	GSE157010	466.5205479
GSM4750774	C1	1	64 Female	GSE157010	254.4657534
GSM4750775	C3	1	64 Male	GSE157010	221.9178082
GSM4750776	C4	0	56 Male	GSE157010	1820.712329
GSM4750777	C1	0	70 Male	GSE157010	1895.671233
GSM4750778	C3	1	59 Female	GSE157010	413.260274
GSM4750779	C2	0	73 Female	GSE157010	1998.246575
GSM4750780	C1	0	69 Male	GSE157010	353.0958904
GSM4750781	C1	0	71 Female	GSE157010	1825.643836
GSM4750782	C2	0	68 Male	GSE157010	1915.39726
GSM4750783	C1	0	61 Male	GSE157010	1810.849315
GSM4750784	C1	0	71 Male	GSE157010	1859.178082
GSM4750785	C1	1	78 Male	GSE157010	143.0136986
GSM4750786	C3	0	73 Male	GSE157010	1924.273973
GSM4750787	C1	1	59 Male	GSE157010	1530.739726
GSM4750788	C1	1	65 Male	GSE157010	306.739726
GSM4750789	C3	1	62 Female	GSE157010	780.1643836
GSM4750790	C1	1	76 Male	GSE157010	541.4794521
GSM4750791	C1	1	68 Male	GSE157010	1288.109589
GSM4750792	C1	0	69 Female	GSE157010	1483.39726
GSM4750793	C1	1	73 Male	GSE157010	360
GSM4750794	C3	1	79 Male	GSE157010	864
GSM4750795	C1	0	68 Female	GSE157010	2577.205479
GSM4750796	C1	0	72 Female	GSE157010	2730.082192
GSM4750797	C2	1	59 Male	GSE157010	663.7808219
GSM4750798	C1	0	73 Female	GSE157010	1835.506849
GSM4750799	C2	1	53 Male	GSE157010	1182.575342
GSM4750800	C1	1	60 Male	GSE157010	1396.60274
GSM4750801	C1	1	81 Male	GSE157010	518.7945205
GSM4750802	C3	1	61 Male	GSE157010	106.5205479
GSM4750803	C2	0	65 Male	GSE157010	2007.123288
GSM4750804	C1	0	68 Female	GSE157010	1670.794521
GSM4750805	C1	1	68 Male	GSE157010	245.5890411
GSM4750806	C1	0	71 Male	GSE157010	1940.054795
GSM4750807	C2	1	55 Female	GSE157010	256.4383562
GSM4750808	C2	1	63 Male	GSE157010	441.8630137
GSM4750809	C1	1	65 Male	GSE157010	383.6712329
GSM4750810	C1	1	66 Male	GSE157010	564.1643836
GSM4750811	C4	0	59 Male	GSE157010	1864.109589
GSM4750812	C1	1	65 Male	GSE157010	1246.684932
GSM4750813	C1	0	65 Female	GSE157010	1870.027397
GSM4750814	C1	0	55 Male	GSE157010	393.5342466
GSM4750815	C1	1	64 Male	GSE157010	811.7260274
GSM4750816	C2	1	70 Female	GSE157010	932.0547945
GSM4750817	C2	0	46 Male	GSE157010	2138.30137
GSM4750818	C1	1	67 Male	GSE157010	841.3150685
GSM4750819	C2	0	73 Male	GSE157010	1831.561644
GSM4750820	C1	0	71 Male	GSE157010	2071.232877
GSM4750821	C2	0	55 Male	GSE157010	1907.506849
GSM4750822	C1	1	86 Female	GSE157010	209.0958904
GSM4750823	C1	0	70 Female	GSE157010	2120.547945
GSM4750824	C3	1	75 Male	GSE157010	707.1780822
GSM4750825	C3	1	68 Female	GSE157010	1615.561644
GSM4750826	C3	0	73 Male	GSE157010	1836.493151
GSM4750827	C2	0	48 Male	GSE157010	1840.438356
GSM4750828	C1	1	66 Female	GSE157010	139.0684932
GSM4750829	C1	0	73 Male	GSE157010	1831.561644
GSM4750830	C2	0	71 Female	GSE157010	1923.287671
GSM4750831	C1	0	61 Male	GSE157010	1820.712329
GSM4750832	C1	1	81 Female	GSE157010	423.1232877
GSM4750833	C2	0	70 Male	GSE157010	2036.712329
GSM4750834	C1	0	70 Female	GSE157010	2057.424658
GSM4750835	C1	1	71 Male	GSE157010	1449.863014
GSM4750836	C1	0	82 Male	GSE157010	1850.30137
GSM4750837	C1	0	66 Male	GSE157010	1035.616438
GSM4750838	C1	0	60 Female	GSE157010	1934.136986
GSM4750839	C1	0	77 Male	GSE157010	2071.232877
GSM4750840	C1	0	65 Male	GSE157010	2156.054795
GSM4750841	C1	1	67 Male	GSE157010	1994.30137
GSM4750842	C1	0	69 Male	GSE157010	1808.876712
GSM4750843	C1	1	52 Male	GSE157010	452.7123288
GSM4750844	C1	0	65 Male	GSE157010	1851.287671
GSM4750845	C1	0	75 Female	GSE157010	2061.369863

GSM4750846	C1	0	82 Female	GSE157010	1731.945205
GSM4750847	C2	0	59 Male	GSE157010	1926.246575
GSM4750848	C1	0	82 Female	GSE157010	1728
GSM4750849	C1	1	57 Female	GSE157010	589.8082192
GSM4750850	C1	1	53 Female	GSE157010	1164.821918
GSM4750851	C1	0	70 Male	GSE157010	1632.328767
GSM4750852	C3	1	63 Male	GSE157010	639.1232877
GSM4750853	C1	1	77 Male	GSE157010	360
GSM4750854	C1	0	69 Male	GSE157010	1911.452055
GSM4750855	C1	0	72 Female	GSE157010	1805.917808

TGCA-90	-0.3625	0.12731	-0.40831	1.15024	-0.2832	0.81745	-0.2081	-0.4735	3.21299	-0.5416	-0.0908	-0.2692	0.75737	1.21502	-1.4232	-0.5036	-0.3588	-0.3974	-0.6123	-0.1189	-0.669	-1.1875
TGCA-96	-0.3625	1.14771	-0.71	0.14699	-0.2832	-0.5786	-1.1257	-0.4735	2.26561	-0.1067	0.88767	-0.2692	-0.3852	-0.895	-0.2145	-0.5036	0.71231	0.14144	-0.1638	-0.5744	-0.669	0.95064
TGCA-34	-0.3625	1.45314	-0.2699	1.16119	-0.2832	0.17606	0.06606	-0.4735	-0.393	-0.2564	-0.6566	-0.2692	-0.3267	-0.5517	-0.3283	-0.5036	-0.4168	-0.1411	-0.0823	-0.5924	-0.2831	0.30657
TGCA-56	-0.3625	0.769	0.10809	-0.2832	-0.3956	-0.0891	-0.4735	-0.2003	-0.2933	2.46573	-0.2692	-0.2725	-0.7761	0.87901	-0.5036	0.23209	-0.3974	0.6123	1.29697	0.2432	-0.669	-1.1875
TGCA-21	-0.3625	-0.0595	0.04994	0.8538	-0.2832	-0.2871	-0.9883	-0.4735	-0.5226	-0.5416	-0.2493	-0.2692	0.70309	0.13521	-0.5036	-0.04994	-0.3974	0.6474	-0.5924	1.31668	-0.669	-1.0218
TGCA-22	-0.3625	-0.4284	-0.2478	1.0639	-0.2832	-0.5889	1.34052	-0.4735	5.91602	-0.5416	-0.7652	-0.2692	0.44504	201149	-1.4656	-0.5036	-0.3841	-0.3974	-0.6123	0.63894	-0.669	-1.0218
TGCA-77	-0.3625	0.9812	0.15826	1.8134	-0.2832	-0.8617	-1.1257	-0.4735	0.08067	-0.5416	0.33659	-0.2692	-0.7209	0.46711	-0.87	-0.5036	1.35786	-0.3471	-0.548	1.48581	-0.669	0.21927
TGCA-L3	-0.3625	-0.1566	-0.5289	-0.2793	-0.2832	-0.4071	0.07351	-0.4735	-0.5526	0.52489	-0.8413	-0.2692	0.75816	-0.5036	-0.3747	0.48395	-0.8948	-0.3974	0.68908	-0.5924	1.54484	1.00139
TGCA-60	-0.3625	-0.1785	2.44186	1.08838	-0.2832	1.45149	-1.1257	-0.4735	-0.5526	2.1998	-0.2972	-0.2692	-0.7723	-0.0466	-0.8432	-0.5036	0.15831	0.22058	-0.6123	-0.5924	2.0764	-0.7497
TGCA-37	-0.3625	-0.0248	1.37304	-1.3487	-0.2832	2.20421	0.69481	0.35463	-0.5526	1.1214	0.14103	0.33982	-1.5147	0.23836	0.48793	-0.1024	-0.9589	-0.3974	2.05787	-0.5924	2.0566	-0.7021
TGCA-66	-0.3625	2.70996	-0.7223	-0.5702	-0.2832	-0.7585	1.1257	-0.4735	0.46318	-0.5416	-0.8413	-0.2692	0.29459	-0.3454	0.29417	-0.5036	0.77238	-0.3974	-0.0697	0.02925	-0.6485	0.55845
TGCA-63	-0.3625	-0.1364	1.37955	0.8538	-0.2832	1.91325	-0.4912	-0.4735	1.1231	0.3056	1.28155	-0.2692	-0.6009	0.1948	-0.1614	-0.5036	0.67993	0.20595	0.4105	0.79072	-0.669	-1.0811
TGCA-L3	-0.3625	-0.1444	-0.3903	-0.7942	-0.2832	0.06294	1.1987	-0.4735	0.21921	-0.5416	-0.8413	-0.2692	2.0222	-0.2113	1.0494	-0.5036	-0.5898	-0.3974	-0.6123	-0.5924	-0.1519	-1.1036
TGCA-99	-0.3625	3.88571	-0.8495	0.20559	-0.2832	-0.1455	-1.0569	-0.4735	-0.3545	-0.4517	-0.8413	-0.2692	-0.0591	-1.1208	-0.4101	-0.4813	-0.1813	-0.3196	-0.6123	-0.5924	-0.669	0.76535
TGCA-77	-0.3625	1.25621	-0.252	-1.0696	-0.2832	0.79566	0.34441	-0.4735	2.76615	-0.5416	-0.8046	-0.2692	-0.7453	0.96212	-0.799	-0.5036	0.38235	-0.3173	-0.6123	-0.5924	0.15669	0.93435
TGCA-66	-0.3625	-0.1428	1.20368	-1.1588	-0.2832	2.22643	-0.3602	-0.2488	-0.5526	-0.5416	0.89708	-0.2692	-0.9417	-0.0344	1.01135	-0.5036	0.16574	-0.3974	-0.5505	-0.5924	-0.0887	-0.1076
TGCA-77	-0.3625	1.59043	-0.10809	0.07630	-0.2832	-0.4082	-0.6341	-0.4735	0.07516	-0.5416	-0.8413	-0.2692	1.62188	-1.1743	0.31838	0.28129	-0.9589	-0.3974	-0.5485	-0.5924	-0.669	0.00163
TGCA-63	-0.3625	0.0552	-1.0809	0.16359	-0.2832	-0.1083	0.03703	-0.4735	-0.5526	2.97066	-0.8413	-0.2692	1.49654	-0.5498	-0.8083	0.27726	-0.9589	-0.3974	-0.5429	0.13109	-0.669	0.59273
TGCA-66	-0.3625	-0.0847	-0.5572	-0.7302	-0.2832	0.63882	-0.9817	-0.4735	-0.5526	1.00767	-0.8413	-0.2692	0.58074	0.02488	1.41014	1.76446	-0.9589	-0.3974	1.26487	0.38774	-0.1924	-1.268
TGCA-77	-0.3625	1.62819	-0.10809	-0.1658	-0.2832	-0.178	0.00372	-0.4735	1.5098	-0.5159	-0.8413	-0.2692	1.19491	-1.2942	-0.0669	-0.5036	0.73313	-0.3974	0.17493	0.16321	-0.669	0.45721
TGCA-43	1.16447	-0.8234	-0.8692	0.67952	-0.2832	-0.3522	0.99066	-0.4735	-0.5526	2.26527	-0.6596	-0.2692	0.21453	-0.6891	-0.1672	-0.5036	1.39349	-0.3974	1.62646	0.43584	-0.669	-0.5984
TGCA-22	-0.3625	0.06464	0.06091	-1.5382	-0.2832	1.16508	-0.3512	-0.4735	3.43018	-0.4955	-0.7221	-0.2692	-0.7787	-0.0331	-1.4871	-0.5036	0.33263	-0.3974	-0.471	-0.4736	-0.2314	3.55414
TGCA-66	-0.3625	-0.4397	-0.5045	-0.6464	-0.2832	-0.2545	-0.2493	-0.4735	-0.2082	1.3589	-0.8413	-0.2692	0.86201	-0.0783	0.79881	-0.3994	-0.6005	-0.3974	0.16816	-0.1383	-0.4693	0.70312
TGCA-77	-0.3625	0.3584	-0.0214	0.25939	-0.2832	1.02965	-0.1516	-0.0151	1.26131	-0.5416	-0.5968	-0.2692	0.46223	-0.0601	-0.1814	-0.5036	0.24861	-0.3974	-0.1612	-0.3689	-0.669	-0.3628
TGCA-66	-0.3625	0.75705	0.30446	0.67617	-0.2832	1.27213	0.8897	-0.4735	-0.4497	-0.5416	-0.8413	-0.2692	-0.5892	1.17809	-0.5703	-0.5036	-0.4304	-0.3974	-0.2562	0.51189	-0.669	-1.1124
TGCA-99	-0.3625	0.6478	-0.8495	-0.944	-0.2832	0.91361	0.001	-0.4735	0.91361	-0.5416	-0.8413	-0.2692	0.18716	-0.6272	-0.5036	0.28444	-0.9589	-0.3974	-0.6123	0.5198	-0.669	-0.5849
TGCA-58	-0.3625	0.38122	-0.0241	1.33829	-0.2832	0.83701	0.54327	-0.4443	-0.5526	-0.4384	-1.7436	-0.2692	-0.1606	0.04491	-0.5245	-0.5036	0.33659	-0.3974	-0.6123	0.09433	-0.669	-0.5849
TGCA-O2	-0.3625	0.86236	0.03579	0.94343	-0.2832	-0.2974	0.57336	-0.4735	-0.5526	-0.5416	-0.2869	-0.2692	-0.4178	1.47652	-0.128	-0.5036	0.56065	1.13018	-0.6123	0.81822	0.27862	-1.0137
TGCA-63	-0.3625	0.23945	0.09046	0.90467	-0.2832	0.09821	-1.1257	-0.4735	-0.1812	-0.4146	-0.8413	-0.2692	-0.1289	-0.9132	0.17794	-0.5036	0.67429	-0.2708	-0.4359	-0.5924	0.20147	1.32488
TGCA-37	-0.3625	-0.0263	0.15388	-1.5382	-0.2832	1.2005	0.48873	0.23092	-0.5526	-0.5416	1.93127	-0.2692	-1.1966	1.1764	2.39081	-0.5036	0.00842	-0.2581	-0.4728	-0.5924	-0.669	-0.6165
TGCA-66	-0.3625	0.24383	0.22257	0.31555	-0.2832	0.11305	-0.3537	-0.4735	-0.5526	-0.5416	1.76205	-0.2692	-0.9893	0.1168	0.66726	-0.5036	0.95241	-0.3974	-0.3663	-0.3527	-0.6219	0.37168
TGCA-34	-0.3625	1.74966	-0.9496	-0.4543	-0.2832	-0.6952	-0.8017	-0.2929	0.46012	-0.5416	-0.8413	-0.2692	0.39012	-0.1178	1.01935	-0.5036	0.09944	-0.3974	-0.5552	-0.0111	-0.669	0.26476
TGCA-9C	-0.3625	0.94325	0.04455	-0.7232	-0.2832	0.6127	-0.9693	-0.4735	-0.2095	-0.5976	0.37678	-0.2692	0.2921	-0.1011	1.14507	-0.9589	-0.3974	1.17669	0.41587	-0.669	-1.2918	
TGCA-56	-0.3625	-0.3138	-0.295	-0.7538	-0.2832	0.22988	0.75382	-0.4735	0.79334	-0.5416	0.0025	-0.2692	0.90736	0.22822	0.92533	-0.5036	0.94416	-0.3974	-0.5656	-0.5924	0.23395	-1.2373
TGCA-L8	-0.3625	0.25594	0.15009	0.18189	-0.2832	1.41245	-0.9508	-0.3762	-0.5526	-0.5416	0.26491	-0.2692	-1.0984	0.98724	-0.3159	-0.5036	-0.2467	1.89088	-0.3288	-0.5924	1.25492	-0.9574
TGCA-56	-0.3625	0.96067	-0.6932	0.61457	-0.2832	0.10753	-0.2056	-0.4735	-0.5526	-0.5416	-0.8413	-0.2692	0.8161	-1.137	-0.6733	0.32702	-0.9589	-0.3974	0.30716	-0.4239	-0.669	0.87916
TGCA-33	-0.3625	-0.0464	0.53144	-1.0221	-0.2832	1.9076	-1.1257	-0.60699	-0.5526	3.13433	-0.8413	-0.2692	-0.0516	-0.3261	-0.8394	-0.5036	-0.1101	-0.3974	-0.5504	-0.4089	-0.6647	-0.7054
TGCA-43	0.93699	-0.905	-0.7483	1.9843	-0.2832	0.56498	1.21406	-0.4735	1.9738	-0.5416	-0.8413	-0.2692	1.20148	-0.602	-0.443	-0.5036	0.61009	-0.2862	-0.6123	0.82015	-0.669	-0.5876
TGCA-77	0.88397	0.57786	-0.116	1.23352	-0.2832	0.93976	-0.828	-0.4735	2.47381	-0.4019	-0.3012	-0.2692	-0.6071	-1.1854	-0.5055	-0.5036	-0.1789	1.97595	0.5516	-0.5932	-0.669	-0.0046
TGCA-52	-0.3625	0.10435	0.04455	-0.7232	-0.2832	0.6127	-0.9693	-0.4735	-0.2095	-0.5976	0.37678	-0.2692	0.2921	-0.1011	1.14507	-0.9589	-0.3974	1.17669	0.41587	-0.669	-1.2918	
TGCA-46	-0.3625	0.41599	-1.0809	-1.5382	-0.2832	0.63774	-0.6525	-0.4735	2.09846	-0.5416	-0.8413	-0.2692	2.60501	-0.6856	-0.5055	-0.5036	0.33659	-0.3974	-0.354	-0.158	0.7651	1.0846
TGCA-L8	-0.3625	1.46312	-1.0576	0.15682	-0.2832	1.64397	0.57806	-0.4282	-0.5526	-0.2927	0.87069	-0.2692	-1.383	-0.6879	-0.6258	-0.5036	0.64432	-0.3974	4.22625	0.09184	-0.669	-0.7323
TGCA-63	-0.3625	0.47361	-0.1054	-1.5382	-0.2164	-0.3326	-1.1257	-0.4735	2.92706	-0.3233	-0.8413	-0.2692	-0.9997	-1.0371	-1.9717	0.9944	-0.9589	-0.3974	1.73152	-0.5924	0.10864	-0.4435
TGCA-56	-0.3625	0.3052	-1.0809	1.59132	-0.2832	-0.5973	0.95794	-0.4735	-0.5526	1.75073	-0.8413	-0.2692	0.70889	-0.8786	-0.5022	2.55021	-0.9589	-0.3974	-0.0553	-0.5924	-0.669	-1.1411
TGCA-60	-0.3625	0.11526	-0.0224	0.62299	-0.2832	0.37997	-0.4905	-0.4735	0.77455	-0.5416	-0.8413	-0.2692	1.04152	0.43149	-0.7461	-0.5036	-0.2956	-0.3974	-0.6048	-0.5924	0.24881	1.09815
TGCA-60	-0.3625	-0.5891	0.59535	-0.2996	-0.2832	1.63024	-0.22	-0.4735	0.97147	-0.0531	1.03362	0.98268	-0.248	-0.45	0.66771	-0.5036	0.36314	3.30418	0.10333	-0.5924	0.29928	1.114
TGCA-52	-0.3625	0.94325	0.04455	-0.7232	-0.2832	0.6127	-0.9693	-0.4735	-0.2095	-0.5976	0.37678	-0.2692	0.2921	-0.1011	1.14507	-0.9589	-0.3974	1.17669	0.41587	-0.669	-1.2918	
TGCA-34	-0.3625	0.99998	-0.2874	0.10563	-0.2832																	

TCGA-43 -0.3625 -0.8512 0.31102 1.43339 -0.2832 0.738 -1.1257 -0.4735 -0.5526 0.74106 0.55747 -0.2692 0.06194 -0.4276 1.76365 -0.4077 -0.9589 -0.3974 -0.4684 -0.5924 0.33691 -1.2479

TCGA-99 -0.3625 -0.905 0.90946 0.78435 -0.2832 0.37031 -1.1257 -0.4735 -0.5526 -0.4054 -0.4418 -0.2692 0.91186 0.79661 -0.0628 -0.5036 -0.2837 -0.3974 -0.4363 -0.5924 1.03782 -0.8134

TCGA-77 -0.3625 0.89474 -0.17198 -0.99 -0.2832 0.4537 0.8095 -0.4735 0.3633 -0.5416 3.75724 -0.2692 -1.1874 1.57772 -0.1471 -0.5036 1.02056 -0.3609 -0.6123 -0.5924 0.13303 -0.8114

TCGA-92 -0.3625 0.54281 -0.2398 1.04275 -0.2832 0.41457 -0.14275 -0.4735 -0.5526 0.05611 -0.4068 -0.2692 0.94907 -1.17076 0.2898 -0.5036 0.87525 -0.2742 0.04099 -0.5924 0.54441 -0.706

TCGA-56 -0.3625 0.30621 -1.0809 -0.5352 -0.2832 0.27642 -0.0215 -0.4735 -0.1475 -0.5416 -0.8413 -0.2692 0.42809 -1.5771 -0.1841 -0.5036 0.3321 -0.3974 -0.223 -0.669 2.21979 -0.669

TCGA-70 -0.3625 0.41653 -0.0676 0.93711 -0.2832 -1.0332 -1.1257 -0.4735 0.47691 -1.9045 -0.8413 -0.2692 0.91667 0.24918 0.81738 0.08285 -0.9589 -0.3974 -0.3434 -0.5924 1.48051 -0.2405

TCGA-43 -0.1741 1.20395 0.35346 -0.3814 -0.2832 0.48318 -0.3791 -0.3261 0.09004 -0.5416 -0.8413 -0.2692 -0.7444 -0.6905 -1.2852 -0.5036 -0.1453 -0.4679 -0.6123 -0.4675 -0.669 3.10003

TCGA-66 -0.3625 0.3306 0.68647 -0.7959 -0.2832 0.96073 -0.1977 -0.4735 -0.3283 -0.5416 -0.8413 -0.2692 1.22576 -0.015 0.06864 -0.5036 -0.1466 -0.2611 -0.5873 -0.5924 0.9137 -0.4717

TCGA-85 -0.3625 -0.2789 0.56575 -0.245 -0.2832 1.29807 0.36794 -0.4735 3.2884 -0.2378 3.96991 -0.2692 -1.2187 0.63444 -1.3591 0.22494 -0.9589 0.5173 -0.0726 -0.5924 1.49804 -0.8962

TCGA-58 -0.3625 0.37405 0.74208 -0.1477 -0.2832 0.65551 -0.1074 0.74405 -0.165 -0.5416 -0.0474 -0.2692 -0.7081 0.01488 -0.1709 -0.5036 0.44457 -0.3974 0.06282 -0.3818 -0.669 2.44412

TCGA-85 -0.3625 -0.5009 -0.2035 -1.2535 -0.2832 2.31132 1.8794 -0.4735 -0.5526 2.19134 -0.8413 -0.2692 0.72209 -0.3476 -1.0772 -0.5036 0.90253 -0.3974 -0.6123 0.02356 -0.2269 -1.1057

TCGA-21 -0.3625 0.71174 -0.6236 -0.2052 -0.2832 0.23662 -0.0745 -0.4735 -0.1475 -0.5416 -0.8413 -0.2692 0.59491 -1.136 -0.8599 -0.5036 0.3321 -0.3974 -0.223 -0.669 1.74207 -0.669

TCGA-33 -0.3625 0.17488 0.44395 -1.5382 -0.2832 1.81861 0.1548 -0.4735 1.73229 0.69315 -0.8413 -0.2692 -0.8626 1.21381 -1.3259 -0.5036 -0.1392 -0.3974 -0.6123 -0.5924 -0.669 0.6144

TCGA-56 -0.3625 0.14711 0.37904 -0.2713 -0.2832 0.4923 0.03337 -0.4735 1.77475 -0.5416 0.6181 -0.2692 -0.4798 0.20226 0.25161 -0.5036 0.4282 1.27277 -0.5886 -0.4715 0.9578 -0.208

TCGA-34 -0.3625 0.05414 -1.0809 -0.1391 -0.2832 0.87191 0.2673 -0.4735 -0.5526 0.3026 0.46995 -0.2692 -0.4573 -0.2194 -1.1922 -0.1766 -0.1237 0.45292 -0.2958 0.58603 -0.2942 -0.444

TCGA-60 -0.3625 0.28299 1.95183 1.41305 -0.2832 1.13836 -1.1257 0.00668 -0.5526 -0.5416 -0.2199 -0.2692 -0.7706 0.37037 -1.3077 -0.5036 0.55124 -0.3974 -0.6123 -0.5924 -0.3503 -0.1895

TCGA-77 -0.3625 0.04693 -0.3714 0.7932 -0.2832 0.36496 -0.3341 -0.4735 -0.5526 -0.5416 -0.8413 -0.2692 0.338 -0.494 -1.036 0.46799 -0.7247 -0.3974 -0.4167 -0.5924 2.52383 -0.7395

TCGA-66 -0.3625 -0.2032 2.20599 -0.9142 -0.2832 1.93667 -0.8909 -0.2687 -0.11309 0.4824 -0.1778 -0.2692 -0.8774 -0.0141 0.41882 -0.5036 -0.0064 -0.0328 -0.4053 -0.5924 1.31155 -0.15

TCGA-66 -0.3625 0.85131 -0.5931 -1.582 -0.2832 0.36355 -0.4094 -0.319 -0.24 -0.58538 -0.8413 -0.2692 1.35279 -1.0396 -0.5414 -0.5036 0.77032 -0.3974 -0.3233 -0.1105 -0.669 0.84111

TCGA-94 -0.3625 0.11417 -0.1089 -0.6343 -0.2832 -0.6662 0.18108 -0.4735 -0.4225 0.05189 -0.4003 -0.2692 2.9493 -0.6178 -0.276 -0.5036 -0.1155 -0.3974 -0.0751 0.69444 -0.669 -0.9197

TCGA-56 -0.3625 0.20502 -0.9395 0.98557 -0.2832 0.15503 -1.1257 -0.4735 2.79699 -0.0317 -0.3793 -0.2692 -0.997 -1.0966 -1.1232 -0.5036 1.18056 0.52923 1.11075 -0.059 -0.669 0.96075

TCGA-22 -0.3625 0.38246 0.72238 1.8745 -0.2832 0.86983 0.03002 -0.4735 1.17341 -0.5416 0.20802 -0.2692 -0.6052 0.21886 1.13002 -0.5036 0.54511 -0.3974 -0.3914 -0.4902 -0.669 -0.0661

TCGA-77 -0.2498 -0.8061 -0.7322 0.57767 -0.2832 -0.4858 0.45311 -0.4735 1.16353 -0.3134 0.45457 -0.0919 2.17076 -1.3224 0.0674 1.89327 -0.9589 -0.3974 -0.5127 -0.5924 -0.669 -1.0891

TCGA-21 -0.3625 0.42839 1.52694 -0.8563 -0.2832 2.14672 -0.2077 -0.4735 -0.2921 0.78007 -0.6414 -0.2692 -0.6039 -0.5682 -0.5929 -0.5036 0.55006 -0.3052 0.1271 -0.5924 0.30272 -0.2844

TCGA-98 -0.3625 1.12547 -0.67487 0.23713 -0.2832 0.39167 1.10959 -0.4735 0.35683 -0.5416 -0.8413 -0.2692 -0.2799 -0.4963 -0.5862 -0.5036 0.24126 -0.3731 -0.6123 -0.1875 -0.5111 -0.8382

TCGA-34 -0.3625 0.38629 0.1989 0.00493 -0.2832 0.3971 -1.1257 -0.4735 -0.0157 -0.4735 -0.3189 0.90624 -0.2692 0.5907 -1.3218 -0.6966 -0.5036 0.3321 -0.3974 -0.223 -0.669 0.84111

TCGA-21 -0.3625 0.72216 0.87993 -0.8681 -0.2832 0.59537 -0.4316 -0.4735 -0.5526 -0.4728 -0.6564 -0.2692 0.64405 -1.2991 -0.6607 -0.5036 1.18572 -0.3974 -0.6123 -0.0511 0.42036 0.55031

TCGA-60 -0.3625 -0.9044 -1.0809 1.22956 -0.2832 -0.807 -1.1257 -0.4735 -0.5526 0.86988 -0.68054 -0.2692 2.57256 -1.7519 0.62335 -0.5036 -0.1981 -0.3974 -0.3042 -0.5924 0.11775 -1.2017

TCGA-96 -0.3625 -0.4719 0.90834 0.17511 -0.2832 0.25773 -0.3805 1.44615 -0.5526 -0.5416 -0.9626 -0.2692 0.60709 0.10235 -0.1041 -0.5036 0.79565 -0.3974 -0.6123 -0.2989 -0.669 -0.3679

TCGA-66 -0.3625 0.14548 -0.1211 0.00363 -0.2832 0.59767 -1.1257 -0.4735 -0.4613 -0.3015 -0.4254 -0.2692 -0.0766 0.92862 -0.2658 -0.5036 0.66562 -0.3974 0.95659 -0.5924 -0.0088 0.72183

TCGA-56 -0.3625 0.41732 -0.0809 0.56456 -0.2832 -0.278 -0.3748 0.76066 -0.5526 -0.5416 -0.8587 -0.2692 -0.2968 -1.4884 -0.4082 -0.5036 1.65467 0.04656 -0.6123 -0.0878 -0.669 -0.8641

TCGA-22 -0.3625 1.43567 -0.0751 0.89495 -0.2832 -0.1445 -1.1257 -0.4735 -0.5526 -0.5416 -0.8413 -0.2692 0.49826 -0.5812 0.7642 -0.393 -0.4331 -0.3974 -0.5325 -0.0756 -0.0379 0.45396

TCGA-21 -0.3625 0.22621 -0.5782 0.55249 -0.2832 0.26481 0.9737 -0.4735 0.34414 -0.1747 -0.4735 0.2692 -0.2459 -0.0214 1.15226 -0.5036 0.37575 -0.0768 -0.6123 0.04026 -0.669 -0.3531

TCGA-85 -0.3625 1.7749 -0.4829 0.84188 -0.2832 0.41939 -0.6803 -0.4735 1.11216 -0.5416 -0.8716 -0.2692 0.72749 -0.4229 -0.6131 -0.5036 -0.249 -0.3974 -0.3514 -0.5924 0.0981 -0.9194

TCGA-21 -0.3625 1.42115 -1.0809 1.82243 -0.2832 -1.0915 -1.1257 -0.4735 -0.5526 -0.3689 -0.8413 -0.2692 1.4381 -0.8132 -0.7006 -0.5036 -0.7447 -0.3974 -0.6123 -0.5924 0.15478 0.55317

TCGA-46 -0.3625 0.78705 -0.0757 1.7738 -0.2832 -1.0685 -0.8343 -0.4735 -0.5526 -0.5416 -0.7326 -0.2692 -0.7109 0.08365 0.56135 -0.5036 0.43318 -0.3974 -0.3475 -0.437 -0.326 2.20188

TCGA-39 -0.3625 -0.245 0.58366 0.88133 -0.2832 1.02986 -1.1257 -0.4735 -0.2505 -0.3225 -0.1133 -0.2692 0.28745 -0.0254 -0.4271 -0.5036 0.05703 -0.2297 -0.6123 -0.5924 -0.669 0.40481

TCGA-90 -0.3625 1.2996 -0.6325 -0.3267 -0.2832 -0.1701 -0.3309 -0.3542 0.88288 -0.5416 -0.8413 -0.2692 1.19676 -0.9381 -0.114 -0.2812 -0.3303 -0.3974 0.13457 -0.5924 -0.669 0.13197

TCGA-39 -0.3625 0.11384 0.54828 -0.6145 -0.2832 0.92956 0.60145 1.1415 -0.4417 -0.5416 -0.212 -0.2692 -0.6895 1.08476 1.14839 -0.5036 -0.4935 1.9279 -0.416 -0.4418 -0.669 -0.6245

TCGA-98 -0.3625 0.34809 0.1989 0.00493 -0.2832 0.31744 -1.1257 -0.4735 -0.3878 -0.3189 0.71243 -0.2692 0.4307 -1.7125 -0.574 -0.5036 0.69262 0.1139 -0.6123 -0.5924 -0.669 -0.3531

TCGA-98 0.69677 -0.6716 -0.1119 0.9131 -0.2832 -0.8023 -1.1257 -0.4735 -0.3421 0.98156 1.48146 -0.2692 1.05622 -1.3685 0.58258 2.9251 -0.9589 0.21642 -0.1196 -0.5572 -0.4481 -0.7711

TCGA-66 -0.3625 1.81516 -0.501 -1.0389 -0.2832 0.08179 -0.2257 -0.4735 -0.5526 0.70081 -0.6469 -0.2692 -0.8945 -1.3082 -1.1263 -0.5036 0.96654 -0.3974 3.95842 0.05322 -0.669 1.86928

TCGA-37 -0.3625 -0.4397 0.29874 -0.1848 -0.2832 2.09891 0.68197 -0.4735 3.92107 -0.5416 -0.8413 -0.2692 -0.1823 0.41154 -0.8887 -0.5036 -0.2919 -0.3974 -0.6123 -0.4704 -0.669 0.23234

TCGA-56 -0.3625 -0.6327 -0.396 2.2723 -0.2832 0.69592 -0.7189 -0.4735 -0.5526 -0.5416 -0.0496 -0.2692 0.62685 0.07721 0.32677 -0.4998 -0.8649 -0.3974 -0.2904 -0.5924 1.09749 -1.2255

TCGA-63 -0.3625 1.46112 0.28276 -1.5382 -0.2832 0.91425 2.71398 -0.4735 -0.2313 -0.5416 1.25746 -0.2692 -0.7081 1.02941 -0.3872 -0.5036 -0.7422 -0.2719 -0.5216 -0.4042 0.38053 -0.7873

TCGA-60 -0.3625 0.10235 -0.1693 -1.5382 -0.2832 0.13415 1.17417 -0.4735 0.83613 -0.5416 -0.1799 -0.2692 0.71291 -0.5458 2.57795 -0.5036 0.42499 -0.3974 -0.6123 -0.5924 0.43533 -0.8587

TCGA-90 0.94867 0.34809 0.1989 0.00493 -0.2832 0.22943 0.98043 -0.4735 0.11334 -0.4042 -0.2692 0.03813 -0.9197 -0.5036 0.69262 0.1139 -0.6123 -0.5924 -0.669 -0.3531

TCGA-56 -0.3625 0.04562 -0.1017 0.12064 -0.2832 -0.9067 -1.1257 -0.4735 -0.5526 -0.5416 -0.7982 -0.2692 5.7798 2.30482 -1.5466 2.00014 -0.1416 -0.9589 -0.3974 -0.6123 -0.5924 2.22033 -1.2042

TCGA-43 -0.3625 0.78965 -0.3836 1.12124 -0.2832 0.79631 -0.4969 -0.4268 -0.1742 -0.1762 -0.5483 -0.2692 0.15213 -0.7648 0.17022 -0.5036 -0.1416 -0.3974 -0.2861 -0.5924 -0.669 -0.0772

TCGA-18 -0.3625 -0.5675 0.37263 1.11906 -0.2832 2.44862 -0.2081 -0.4735 -0.0252 -0.5416 -0.5786 -0.2692 -0.7318 -1.1847 -0.6884 -0.5036 -0.6606 0.3628 -0.6123 -0.5924 0.15253 -1.0799

TCGA-77 -0.3625 1.03205 -0.5652 1.02237 -0.2832 -0.8273 -1.1257 -0.4735 -0.5526 -0.5416 -0.3839 -0.2692 1.31 0.56396 -0.524 -0.5036 -0.5411 -0.3974 -0.0907 -0.5924 -0.1619 -0.8185

TCGA-60 -0.3625 0.11373 -0.3021 0.23497 -0.2832 0.32282 -0.1684 -0.4735 -0.2915 -0.1184 -0.1473 -0.2692 0.46525 -0.4737 0.58311 -0.5036 0.3362 1.30409 -0.2143 -0.5924 0.44408 -0.4315

TCGA-22 -0.3625 0.85901 -0.8989 1.56144 -0.2832 -0.5381 -0.5966 -0.4735 0.42001 -0.5416 -0.8413 -0.2692 2.11908 -0.5826 -0.0208 -0.5036 -0.779 -0.3974 -0.6123 -0.5924 -0.669 -1.1011

TCGA-66 -0.3625 0.21148 -0.1582 0.55249 -0.2832 0.26481 0.9737 -0.4735 0.34414 -0.1747 -0.4735 0.2692 -0.2459 -0.0214 1.15226 -0.5036 0.37575 -0.0768 -0.6123 0.04026 -0.669 -0.3531

TCGA-18 -0.3625 0.24331 0.0717 0.82217 -0.2832 -0.2325 -0.1031 -0.1506 -0.5526 -0.5416 0.98313 2.5056 -1.2806 0.30047 -0.4898 -0.5036 -0.0749 -0.2103 0.55117 -0.5924 -0.669 1.86872

TCGA-77 -0.3625 0.79361 -0.9413 -0.1619 -0.2832 -0.2794 -0.4326 -0.4735 0.66441 -0.5416 -0.4429 -0.2692 1.22179 -0.3376 -0.363 0.90642 -0.9589 -0.3974 -0.6123 -0.5924 -0.1213 0.4269

TCGA-21 -0.3625 0.52551 0.20646 0.74801 -0.2832 0.17918 1.12051 -0.4735 -0.5526 0.70041 -0.7723 -0.2692 -0.7597 -0.0482 -0.3753 -0.5036 -0.5427 -0.3974 0.48813 -0.5924 0.64371 0.64617

TCGA-43 -0.3625 -0.6254 2.46715 -0.9424 -0.2832 2.80013 -0.26 -0.4735 -0.5526 -0.5416 0.16419 -0.2692 -0.5591 -0.58745 0.20699 -0.5036 -0.0108 -0.3974 -0.5616 -0.5924 0.21254 -1.2202

TCGA-85 -0.3625 1.44712 -0.6301 1.69999 -0.2832 0.2432 -0.8563 -0.4735 -0.5526 -0.4834 -0.8413 -0.2692 0.58377 0.01091 0.19817 -0.5036 -0.9281 -0.3974 -0.6123 -0.5127 -0.669 -1.6781

TCGA-85 -0.3625 1.2773 -0.8915 0.02766 -0.2832 -0.3355 -0.3414 -0.4735 0.71087 -0.5416 -0.8413 -0.2692 1.14658 -0.3762 0.60327 -0.3409 -0.9589 -0.3974 -0.1176 -0.5924 -0.669 0.98811

TCGA-98 -0.3625 0.34809 0.1989 0.00493 -0.2832 0.01249 0.94867 -0.4735 0.15983 -0.5416 -0.8413 -0.2692 0.4307 -1.7125 -0.574 -0.5036 0.69262 0.1139 -0.6123 -0.5924 -0.669 -0.3531

TCGA-58 -0.3625 0.05303 0.73763 0.62673 -0.2832 0.3243 0.44552 -0.4735 0.22511 0.36073 0.489 -0.2692 -0.6887 -0.3596 0.27675 -0.5036 0.06033 -0.3974 -0.0743 -0.1886 -0.1047 -0.8649

TCGA-66 -0.3625 0.70232 -0.1809 1.60827 -0.2832 0.55949 -1.1257 -0.4735 -0.5526 -0.5416 -0.5704 -0.2692 -1.1072 -0.297 1.0254 -0.4423 -0.1287 0.09843 -0.3704 -0.5924 -0.5232 0.9496

TCGA-LA -0.3625 -0.6507 -0.6211 -1.2398 -0.1306 -0.8618 -1.1257 -0.4735 -0.5526 1.77008 -0.8413 -0.2692 2.36198 -1.7519 1.54484 1.09424 -0.9589 -0.3974 1.10588 -0.5924 0.59825 -1.2484

TCGA-77 -0.3625 -0.3679 -0.2561 0.01334 -0.2832 0.53142 -0.5113 -0.4735 -0.4818 -0.5416 -0.8413 -0.2692 0.82088 -0.9155 2.84632 -0.4053 -0.8938 0.42426 -0.0303 -0.5924 0.02784 -1.066

TCGA-85 -0.3625 -0.0494 -0.07712 1.17177 -0.2832 0.1306 0.0499 -0.4735 1.08145 -0.5416 -0.8413 -0.2692 0.33638 -0.7217 0.01353 1.59838 -0.9589 -0.3974 -0.6123 0.06255 0.3341 -0.4861

TCGA-22 -0.3625 0.15995 -0.1976 -1.5382 -0.2832 1.09825 0.9469 -0.4735 2.99547 -0.5416 -0.4707 -0.2692 -0.3611 0.97977 -0.3121 -0.5036 0.36642 -0.3974 -0.4315 -0.5924 0.96271 0.94765

TCGA-77 -0.3625 0.34809 0.1989 0.00493 -0.2832 0.22943 0.98043 -0.4735 0.11334 -0.4042 -0.2692 0.03813 -0.9197 -0.5036 0.69262 0.1139 -0.6123 -0.5924 -0.669 -0.3531

TCGA-22 -0.3625 1.78883 -0.1977 0.3534 -0.2832 0.38539 -0.2959 -0.4735 0.55637 1.90153 1.03888 -0.2692 -1.0036 -0.8827 0.00513 -0.5036 0.30103 -0.1675 -0.3731 -0.124 -0.669 0.2423

TCGA-66 -0.3625 -0.2462 0.92205 -1.5382 -0.2832 3.76843 -0.1718 -0.4735 0.64023 -0.5416 0.99733 -0.2692 -0.7237 -0.3304 -0.6273 -0.5036 0.24858 -0.3974 -0.6123 -0.5924 2.16104 -1.181

TCGA-22 -0.3625 -0.5606 0.85652 0.93874 -0.2832 0.32526 1.08412 -0.4735 0.05856 1.50473 1.4858 -0.2692 -0.7302 -0.2988 0.30844 -0.5036 1.53079 -0.3974 0.17861 -0.4201 -0.669 -1.1693

TCGA-77 -0.3625 2.46812 -0.8651 0.3541 -0.2832 -0.1054 0.55993 -0.4735 0.07833 0.13492 -0.7528 -0.2692 -0.3791 -1.3176 -0.9062 -0.5036 0.23782 -0.3974 -0.3025 0.72837 -0.669 1.15813

TCGA-56 -0.3625 -0.6279 -1.0809 -0.6043 -0.2832 -1.028 0.73615 -0.4735 -0.5526 2.35878 -0.8413 1.95006 0.228 -1.7172 -0.6779 8.70903 -0.9589 -0.3974 0.17185 -0.4634 -0.669 -0.6525

TCGA-85 -0.3625 -0.5782 1.06201 -1.0539 -0.2832 0.22761 1.0328

GSMA750	1.14482	-0.905	-1.0809	1.22289	-0.2832	-1.1028	1.24526	-0.4735	-0.5526	4.76351	-0.8413	-0.2692	-0.535	-0.9819	0.73111	-0.5036	0.09118	-0.3974	-0.6123	-0.0417	0.16688	0.53184
GSMA750	0.4481	-0.905	0.37329	-0.3084	0.11806	-0.6568	-0.0567	1.17743	-0.5526	-0.4427	0.09005	-0.1425	-0.4343	1.22439	0.5522	1.05492	-0.9589	-0.3974	0.36612	-0.5924	0.50786	-0.2896
GSMA750	0.70225	-0.905	0.06999	-0.06	-0.2832	-0.0467	0.40474	-0.4735	-0.5526	2.31088	-0.5526	0.2992	0.59243	-0.5377	-0.2099	-0.7407	-0.3974	0.27863	-0.5924	0.33448	-0.5036	0.53184
GSMA750	0.3625	-0.905	-0.1597	-0.5526	-0.2832	-0.6915	-0.2832	2.61881	-0.5526	-0.5416	-0.0641	0.56235	-0.4064	0.35701	0.5549	-0.9589	-0.3974	-0.1593	-0.5924	-0.3974	-0.1593	0.53184
GSMA750	2.51929	-0.905	0.30085	-0.1954	1.80354	-0.7745	1.03818	0.22696	-0.5526	-0.5416	1.56111	-0.2692	-0.9637	2.15601	0.43731	-0.3028	-0.9547	-0.3974	0.1037	-0.5924	0.32463	-0.1692
GSMA750	-0.3625	-0.6945	0.1932	1.07653	-0.2832	-1.1028	-1.0356	1.59731	-0.5526	-0.5416	0.0302	-0.2692	-0.6271	1.45945	0.71444	-0.5036	0.52127	-0.3974	0.04097	-0.5469	-0.6483	0.79662
GSMA750	-0.2563	-0.905	0.4166	0.56492	-0.2832	-1.1028	-1.1257	-0.4735	-0.5526	-0.5416	-0.8413	-0.2692	1.11089	-0.7172	-0.093	2.5097	-0.9589	-0.3974	0.46797	-0.5924	1.39665	0.56676
GSMA750	-0.3625	-0.0334	-0.4526	-0.8691	-0.2832	-0.5513	1.68095	1.18769	-0.5526	-0.5416	-0.211	-0.1953	-0.7155	0.93306	0.57544	-0.259	-0.4401	-0.3974	-0.4959	-0.5924	-0.6176	1.07671
GSMA750	-0.3625	-0.4625	-1.0302	-1.3985	2.98114	-1.1028	1.2157	-0.4735	2.21378	0.03911	-0.8413	0.04443	0.41376	-0.5972	-0.1979	1.69353	-0.9589	-0.3974	-0.0885	-0.5924	4.38111	0.67219
GSMA750	-0.3625	-0.7169	1.34269	-1.1321	1.92095	-0.4675	0.07899	1.51363	-0.5526	-0.5416	-0.5967	-0.0992	-0.1434	1.13968	0.69036	0.56341	-0.9589	-0.3974	0.15648	-0.2254	-0.669	0.2965
GSMA750	-0.3625	-0.905	1.14643	-0.7423	-0.2832	-0.1152	0.88639	1.03044	-0.5526	-0.5416	-0.1345	-0.2692	-0.5603	0.94724	0.02604	-0.1495	-0.7791	-0.3974	0.1158	0.31667	-0.669	1.39639
GSMA750	0.45669	-0.905	0.30085	-0.1954	1.80354	-0.7745	1.03818	0.22696	-0.5526	-0.5416	1.56111	-0.2692	-0.9637	2.15601	0.43731	-0.3028	-0.9547	-0.3974	0.1037	-0.5924	0.32463	-0.1692
GSMA750	-0.3625	-0.905	0.03942	0.91005	-1.1028	-1.0356	1.59731	-0.5526	-0.5416	-0.1177	-0.1545	-0.1559	0.50346	1.09709	-0.8019	0.80806	-0.9589	-0.3974	0.32131	-0.5924	3.57881	-0.247
GSMA750	-0.3625	-0.4915	-0.91	0.93335	-0.2832	-1.1028	1.52652	2.2878	-0.5526	-0.5416	-0.306	-0.2692	0.27523	0.00727	0.63728	-0.1046	-0.9589	-0.3974	1.57592	-0.5081	-0.669	0.06028
GSMA750	-0.3625	-0.4546	-0.0161	-0.2049	1.03479	-1.1028	0.99689	2.69985	-0.5526	-0.5416	-0.4939	-0.2692	-0.3971	0.61706	-0.0453	-0.2078	-0.8419	-0.3974	-0.2949	-0.3354	-0.669	2.19775
GSMA750	0.20688	-0.905	0.68933	-0.163	3.57118	-1.1028	1.63758	0.07791	-0.5526	0.09936	-0.3031	-0.2692	-1.0349	0.88896	0.70586	-0.0568	-0.4729	-0.0881	0.0394	-0.2301	1.07026	0.93447
GSMA750	0.38669	-0.905	-0.5243	1.64725	0.8371	-1.1028	1.1257	-0.4735	-0.5526	-0.2988	-0.4401	-0.2692	0.24923	-0.2917	0.0395	-0.5036	0.01259	-0.3974	-0.5194	-0.5924	1.07026	1.74485
GSMA750	0.28728	-0.905	0.68933	-0.163	3.57118	-1.1028	1.63758	0.07791	-0.5526	0.09936	-0.3031	-0.2692	-1.0349	0.88896	0.70586	-0.0568	-0.4729	-0.0881	0.0394	-0.2301	1.07026	0.93447
GSMA750	0.82079	-0.7035	0.05681	0.2117	-0.0723	-0.2952	0.79907	0.4735	-0.5526	-0.5416	1.99477	-0.2692	-0.1304	0.45986	-0.9952	-0.5036	1.5836	-0.3974	-0.6123	0.4277	1.45568	-0.495
GSMA750	3.38743	-0.905	-1.0809	0.84853	1.091	-1.1028	2.36189	-0.4735	-0.5526	0.30933	0.38663	-0.2692	-0.4153	-0.5298	-1.4656	0.89535	-0.3609	0.5145	-0.6123	-0.5924	-0.2377	-0.028
GSMA750	-0.3625	-0.8464	-0.0839	0.05169	-0.2832	-1.1028	0.04226	2.5887	-0.5526	-0.5416	-0.182	-0.2692	0.01063	0.76573	1.73665	0.19027	-0.9589	-0.3974	0.02549	0.61798	-0.669	-0.0612
GSMA750	-0.3625	-0.7845	0.14226	1.06661	-0.2832	-0.866	-0.3985	0.97971	-0.5526	-0.5416	-0.7845	-0.2692	0.93552	0.85026	-0.2613	-0.0505	-0.9589	-0.3974	-0.1449	-0.5924	-0.669	0.53853
GSMA750	-0.3625	-0.5886	-0.7813	1.20725	-0.2832	-1.1028	-1.0293	-0.2491	-0.5526	-0.5416	-0.8413	-0.2692	-0.5884	0.01148	0.4801	0.0283	0.0814	-0.3974	-0.5609	-0.5924	0.44407	3.23527
GSMA750	0.82482	-0.905	-0.3317	0.76483	-0.2832	-0.9904	-0.2073	-0.4735	-0.5526	-0.5416	-0.8413	-0.2692	1.24813	-0.5317	1.43022	0.2176	-0.9819	-0.3974	-0.6123	-0.5924	2.72881	-0.6354
GSMA750	-0.3625	-0.905	1.0809	-0.2923	2.23383	-1.1028	1.52848	-0.4735	-0.5526	0.3484	0.01629	-0.2692	0.17497	-1.1607	0.32427	0.07062	-0.7967	-0.3974	-0.3043	-0.5924	1.9489	3.36271
GSMA750	-0.3625	-0.905	1.13247	-0.5874	-0.2832	-0.1152	0.88639	1.03044	-0.5526	-0.5416	-0.1345	-0.2692	-0.5603	0.94724	0.02604	-0.1495	-0.7791	-0.3974	0.1158	0.31667	-0.669	1.39639
GSMA750	0.87158	-0.905	-0.0671	0.21981	1.64436	-1.1028	-0.6335	-0.4735	-0.5526	0.41071	0.31161	1.92499	-0.2841	-1.3005	0.70783	1.81288	-0.9589	-0.3974	0.44324	-0.4885	0.14784	0.89922
GSMA750	-0.3625	-0.4366	-0.8887	0.05727	-0.2832	-1.1028	0.2798	0.70453	-0.5526	-0.285	-0.7334	-0.2692	0.21959	-0.584	0.01277	2.56553	-0.9589	-0.3974	0.27191	-0.0989	-0.2956	1.0937
GSMA750	-0.3625	-0.9005	0.10195	-0.1584	0.70977	-1.1028	0.51394	1.13334	-0.5526	-0.54	-0.211	-0.2692	-0.4841	0.74942	0.69723	1.41735	-0.9589	-0.3974	0.3405	0.44753	-0.669	1.09772
GSMA750	0.48959	-0.905	-0.4058	-0.0703	-0.2832	-0.731	-0.0786	-0.4735	-0.5526	-0.5416	2.88586	-0.2692	-1.5147	0.5739	1.83408	-0.5036	1.98819	0.41165	0.12527	0.49963	0.34311	-0.4346
GSMA750	-0.3625	-0.905	1.35196	0.01899	2.97843	-0.9982	0.20433	0.5731	-0.5526	0.50942	-0.7039	0.08411	0.09952	0.34025	-0.1546	0.45219	-0.9589	-0.3974	-0.6123	-0.5924	0.7545	0.55273
GSMA750	-0.3625	-0.4047	0.8987	-0.8173	-0.2832	-0.1585	0.33126	1.3582	-0.5526	-0.5416	0.15583	-0.2692	-0.9938	2.11409	0.67609	-0.1305	-0.9589	-0.3974	-0.0666	0.40328	-0.669	0.59215
GSMA750	1.4638	-0.905	0.8049	-1.3422	2.49736	-0.06059	2.0534	0.19166	-0.5526	0.20447	0.62757	-0.2692	-0.0485	2.22902	-0.1087	-0.5036	-0.4735	-0.3974	-0.6123	0.4277	1.45568	-0.495
GSMA750	-0.3625	-0.7299	-0.8941	-0.2183	1.61022	-1.1028	-0.3495	-0.7476	-0.5526	-0.26194	-0.8413	-0.2692	1.10119	0.6975	0.24272	1.32186	-0.9589	-0.3974	0.67968	-0.5924	0.23776	1.23252
GSMA750	-0.3625	-0.5064	-0.4411	0.87738	-0.2832	-0.7756	-0.5989	-0.4735	-0.5526	0.83437	-1.3917	-0.2692	-1.4127	-0.0606	0.46109	0.77709	1.05503	2.73053	-0.0839	-0.5508	0.98403	-0.1862
GSMA750	-0.3625	-0.8142	0.53087	-0.6631	-0.2832	-0.901	-0.515	1.58406	-0.5526	-0.3268	-0.7382	-0.2692	-0.306	1.44519	1.56893	-0.5036	-0.1565	-0.3974	-0.3257	-0.5924	1.91908	1.32626
GSMA750	1.30512	-0.905	0.08152	-0.1458	1.1379	-1.1028	0.23646	-0.3233	-0.5526	-0.2503	0.45414	-0.2692	1.2632	-0.8222	0.79852	0.02349	-0.6458	-0.3974	-0.1357	-0.4331	-0.6243	-0.346
GSMA750	-0.3625	-0.6284	-0.3401	-0.3393	-0.2832	-1.1028	-0.3401	3.1146	-0.5526	-0.5416	-0.0858	-0.2692	0.18515	0.40039	0.49745	0.40944	-0.9589	-0.3974	0.28172	-0.5623	-0.669	1.34163
GSMA750	0.44656	-0.905	-0.4668	0.26542	-0.2832	-1.1028	1.38336	2.23877	-0.5526	-0.4963	0.33434	2.04505	-0.8905	-0.3054	1.43198	1.74499	-0.9589	-0.3974	1.1707	-0.0862	-0.669	0.04676
GSMA750	-0.3625	-0.905	1.13247	-0.5874	-0.2832	-0.1152	0.88639	1.03044	-0.5526	-0.5416	-0.1345	-0.2692	-0.5603	0.94724	0.02604	-0.1495	-0.7791	-0.3974	0.1158	0.31667	-0.669	1.39639
GSMA750	0.31039	-0.905	-0.2493	0.43154	0.97332	-1.1028	0.68464	-0.4735	-0.5526	-0.4389	0.33256	-0.2692	-0.0816	0.7501	-0.3035	0.21022	-0.9589	-0.3974	0.05628	-0.0446	-0.3132	1.7271
GSMA750	-0.3625	-0.4893	0.28302	-0.6967	-0.2832	-0.5077	0.85464	-0.4735	-0.5526	-0.0395	-0.4411	-0.2692	-0.925	1.12382	0.22109	-0.5036	0.79273	-0.3974	-0.444	0.02561	-0.0756	1.61221
GSMA750	-0.3625	-0.353	0.17647	0.6228	0.88343	-0.8049	-0.464	2.675	-0.5526	-0.5114	-0.2614	-0.2692	-0.4441	0.63419	0.28179	-0.3198	-0.8002	-0.3974	0.11004	-0.5924	-0.669	1.49828
GSMA750	0.41482	-0.905	-0.4638	1.30224	-0.2832	-0.753	1.22652	-0.4735	-0.5526	1.16652	2.58107	-0.2692	-1.5147	0.6775	0.75484	0.39784	-0.9589	-0.3974	-0.1683	-0.5924	3.01281	-0.1818
GSMA750	-0.2138	-0.905	1.64019	-1.2667	-0.2832	-0.7288	1.4874	2.48717	-0.5526	2.40873	1.17453	-0.2692	-1.0637	1.66545	-0.1007	-0.3537	-0.8682	-0.3974	-0.4516	-0.17864	-0.669	-0.032
GSMA750	-0.3625	-0.4925	0.5554	-0.5198	-0.2832	-1.051	2.4699	4.19933	-0.5526	1.30121	0.35381	4.2638	-0.6213	0.56068	-0.2823	-0.2762	-0.8339	-0.3974	-0.133	-0.5924	-0.669	0.5573
GSMA750	0.3625	-0.905	1.13247	-0.5874	-0.2832	-0.1152	0.88639	1.03044	-0.5526	-0.5416	-0.1345	-0.2692	-0.5603	0.94724	0.02604	-0.1495	-0.7791	-0.3974	0.1158	0.31667	-0.669	1.39639
GSMA750	-0																					

GSM4750	-0.3625	-0.5723	2.65028	-1.5382	-0.2832	0.41625	-0.0535	5.23378	-0.5526	-0.5416	0.66839	-0.1832	-1.3974	1.53042	-0.5805	0.11908	-0.9589	-0.3974	-0.6123	0.84933	-0.669	-0.0439	
GSM4750	-0.3625	-0.905	0.94753	-0.372	2.04747	-1.1028	0.38281	-0.4735	-0.5526	-0.5416	0.25109	-0.2692	-0.0294	2.10319	-0.1372	0.14069	-0.9589	-0.3974	0.34098	0.42359	0.42914	0.31935	
GSM4750	0.10449	-0.905	-0.10449	1.23207	-0.2832	-1.1028	-0.5439	0.05223	-0.5526	2.53035	-0.2708	-0.2692	0.09812	-0.5036	0.43001	-0.5036	0.83626	-0.3974	-0.2003	-0.5924	0.19558	0.78362	
GSM4750	0.3625	-0.6779	-0.7426	-0.2832	-1.0446	0.44432	-0.2068	-0.5526	-0.5416	1.83654	0.30947	-0.7789	1.85599	0.65559	-0.5036	-0.485	-0.3974	0.11437	-0.3974	2.7195	0.31775		
GSM4750	2.43667	-0.905	1.0809	0.12556	2.26961	-1.101	-0.4506	0.4735	-0.5526	0.02324	-0.2139	-0.2692	-0.2764	-0.954	0.01719	0.33005	-0.9589	-0.3974	-0.6123	-0.5924	2.33497	2.57909	
GSM4750	-0.3625	-0.2317	-1.0809	0.20149	-0.2832	-1.1028	0.28212	-0.4735	-0.5526	2.01799	-0.064	0.88138	0.32406	-0.341	0.71252	1.12226	-0.9589	0.00915	-0.1019	-0.5924	0.67021	1.05389	
GSM4750	-0.3625	-0.8427	-0.6497	1.1554	-0.2832	-0.6708	-0.144	0.39726	-0.5526	-0.5416	-0.0044	-0.2692	-0.0768	0.38702	-0.3212	1.30241	-0.9589	-0.3974	-0.1724	-0.4003	-0.3985	1.48227	
GSM4750	-0.1843	-0.8868	-0.6385	-0.2148	2.01166	-1.1028	0.87275	-0.4735	-0.5526	-0.5416	-0.4537	-0.2692	0.86467	1.12298	1.14045	-0.5036	-0.2411	-0.3974	-0.6123	-0.2523	-0.2123	0.53124	
GSM4750	0.18681	-0.8039	-0.852	-0.5495	-0.2832	-0.7853	3.77484	-0.4735	-0.5526	-0.3582	-0.2743	-0.2692	-0.1694	0.09921	1.31783	-0.3388	-0.651	-0.3974	-0.1618	0.3569	-0.5033	1.45704	
GSM4750	-0.3625	-0.905	0.02626	0.12384	1.39791	-1.1028	-0.1989	0.72993	-0.5526	-0.5416	-0.6695	-0.2692	0.6662	0.31918	-0.2767	-0.5036	-0.391	-0.3974	-0.6123	-0.5661	0.75087	1.8746	
GSM4750	0.76182	-0.905	0.07628	-0.1965	-0.2832	-0.9633	0.10242	0.69738	-0.5526	-0.2641	-0.2557	-0.2692	1.67976	-0.483	0.66226	-0.2132	-0.5277	-0.3974	0.42234	-0.5924	-0.669	-0.4018	
GSM4750	0.05367	-0.905	0.43046	0.25322	-0.2832	-0.0456	0.85549	0.20614	-0.5526	0.84903	0.7699	-0.2692	-1.5147	0.83298	2.95234	0.19792	-0.9589	-0.3974	-0.061	-0.4129	0.71618	-0.8464	
GSM4750	0.0497	-0.905	0.15344	0.6162	-0.2832	-1.1028	-0.9835	2.70056	-0.5526	0.643	-0.5477	2.10592	-0.2788	1.60336	-0.206	-0.12	0.23053	-0.3974	-0.2909	-0.3772	-0.669	0.42139	
GSM4750	-0.3625	-0.6235	1.09238	-0.1222	-0.2832	-0.8585	-0.4933	2.33845	-0.3984	-0.5416	-0.8413	0.31717	-0.069	0.4591	-0.152	1.19116	-0.9589	-0.3974	0.10925	-0.5924	-0.5464	0.98126	
GSM4750	0.17261	-0.905	-1.0809	0.19783	-0.2832	-1.1028	-0.0516	-0.4735	-0.5526	0.16957	1.74521	0.05979	0.34545	-1.2358	0.17022	0.42748	-0.9589	-0.3974	0.21342	-0.5924	1.01525	-0.253	
GSM4750	1.12942	-0.905	-1.0809	0.48935	-0.2832	-0.6674	1.91554	-0.4735	0.24749	-0.2941	0.61882	-0.2692	-0.6371	0.97154	1.04684	0.05982	-0.7452	-0.3974	-0.263	0.25999	0.47707	0.22709	
GSM4750	-0.3625	-0.6329	-0.2817	0.34391	-0.2832	-1.1028	-0.4335	0.66792	-0.5526	-0.5416	-0.8413	-0.2692	0.046	0.01055	0.25578	2.20031	-0.9589	-0.3974	-0.0512	-0.5924	-0.0542	1.22725	
GSM4750	0.3625	-0.6433	1.43721	-1.5382	2.31347	-0.7101	0.64893	3.06669	-0.5526	-0.5416	-0.5103	-0.2692	-0.1478	1.49026	0.23809	-0.5036	-0.5343	-0.3974	0.02805	-0.2816	-0.6419	0.72119	
GSM4750	0.19292	-0.905	-0.6052	0.49086	-0.2832	-0.8116	-0.0988	-0.0941	-0.5526	0.85301	0.64507	-0.2672	0.18681	-0.6482	1.13236	-0.1106	0.03576	-0.3974	0.09405	-0.5924	0.48979	0.39277	
GSM4750	-0.3625	-0.7619	0.31085	0.54694	-0.2832	-0.769	-1.1003	3.40416	-0.5526	-0.5416	1.08877	1.47061	0.14567	-0.1083	0.62659	-0.5036	0.49392	-0.3974	-0.3132	0.18611	-0.669	0.39403	
GSM4750	-0.3625	-0.892	0.88314	0.31976	-0.2832	-1.0129	-1.1257	1.97408	-0.5526	-0.5416	0.97906	1.23908	-0.0955	-0.6353	0.78458	-0.5036	0.4651	-0.3974	-0.1664	-0.2303	-0.669	0.90002	
GSM4750	-0.3625	-0.905	1.97475	-1.5382	2.98621	-1.0404	0.51975	3.71122	-0.5526	-0.4341	-0.2829	-0.2692	-0.5977	1.51689	0.26767	-0.3659	-0.7991	-0.3974	0.06462	-0.1856	-0.669	0.01843	
GSM4750	-0.2588	-0.8919	0.15596	0.71115	-0.2832	-1.0022	0.34843	-0.4051	-0.5526	-0.0097	1.54212	-0.129	-0.2785	-0.9901	1.58958	-0.5036	0.86539	-0.3974	0.3061	-0.15	-0.669	0.91715	
GSM4750	0.82744	-0.905	-1.0809	0.5859	0.29166	-1.0891	-0.6992	-0.4735	-0.5526	-0.3468	1.06631	-0.2692	-0.15003	-0.3728	0.57146	-0.1922	0.63093	-0.3974	-0.6123	-0.5924	2.3866	0.37307	
GSM4750	-0.3625	-0.2521	0.73447	0.38092	0.51982	-1.1028	0.30291	3.45947	-0.5526	-0.5416	-0.1122	0.2826	-0.8495	2.13928	-0.7098	-0.3636	-0.3273	-0.3974	-0.1875	-0.5924	-0.669	0.8164	
GSM4750	0.35859	-0.905	-0.0508	0.49086	-0.2832	-1.1028	-0.0689	0.80951	-0.5526	0.2969	-0.8413	-0.2692	-0.1675	0.1798	-0.762	2.18638	-0.9589	-0.3974	-0.6123	-0.5924	0.77618	0.39277	
GSM4750	0.44401	-0.905	-0.0425	0.08291	-0.2832	-0.3129	0.73341	2.36072	-0.5526	-0.5416	-0.3973	-0.2692	0.83298	0.9829	0.42469	-0.2662	-0.9589	-0.3974	-0.6123	-0.5924	-0.669	-0.6227	
GSM4750	-0.3625	-0.4686	-0.444	0.15153	0.4142	-1.1028	0.73485	-0.1529	-0.5526	-0.3749	-0.6004	0.99974	0.43354	-0.6594	-0.2709	1.06013	-0.9589	-0.3974	-0.0372	0.47988	-0.5924	0.71247	1.62777
GSM4750	-0.3625	-0.3	1.10636	0.99906	0.56248	-1.1028	1.87852	-0.4735	-0.5526	0.24799	-0.1656	-0.2692	-0.5822	0.99349	-0.6985	-0.2583	0.23179	1.57022	-0.0721	-0.5924	0.35883	0.52933	
GSM4750	-0.3625	-0.7993	0.65134	-0.3069	-0.2832	-0.7041	-0.8955	3.47588	-0.5526	0.37362	0.4402	-0.2692	-0.8863	1.4149	0.30405	-0.3497	-0.9545	-0.3974	-0.1123	-0.2123	-0.669	1.28145	
GSM4750	-0.3625	-0.563	-0.3372	-1.0269	2.95266	-1.1028	0.85562	0.77465	-0.5526	0.59778	-0.7392	-0.2692	-0.5371	0.86253	1.00096	0.01999	-0.9589	-0.3974	0.89627	-0.1316	-0.669	1.64523	
GSM4750	-0.3625	-0.8476	-0.3516	0.11723	-0.2832	0.07632	1.48485	0.81902	-0.5526	0.60833	-0.3029	-0.2692	-1.0823	0.83024	0.94645	0.93149	-0.9589	-0.3974	0.37491	0.366	-0.669	0.61075	
GSM4750	1.21761	-0.905	-0.0043	0.57321	-0.2832	-1.1028	0.30291	3.23723	-0.5526	0.1616	-0.2692	-0.2692	-0.1478	0.98775	-1.251	0.11297	-0.9589	-0.3974	-0.6123	-0.5924	0.77618	0.39277	
GSM4750	-0.3625	-0.0918	-0.7433	0.59785	-0.2832	-1.1028	-0.5188	-0.2081	-0.5526	-0.5416	2.74742	-0.2692	-0.9285	-0.3882	1.17594	-0.5036	0.26015	-0.3974	-0.1245	0.20682	-0.2481	1.62249	
GSM4750	0.24672	-0.905	-0.4532	0.04293	-0.2832	-1.0978	-0.5736	0.33461	-0.5526	1.082	-0.8413	-0.2692	0.55091	1.00789	0.70292	1.56029	-0.9589	-0.3974	-0.3606	-0.5924	1.07595	-0.6905	
GSM4750	-0.3625	-0.7712	-0.2383	-0.12422	-0.0398	-1.1028	0.58381	-0.4149	-0.5526	-0.4059	-0.4465	-0.2692	0.63338	0.04408	0.3853	1.06688	-0.9589	-0.3974	0.84815	-0.5924	0.6633	0.70346	
GSM4750	0.95079	-0.905	-1.0809	0.17317	2.20498	-1.1028	2.3057	-0.4735	-0.5526	2.12326	1.9095	-0.2692	0.01829	-1.0343	-0.893	1.87795	-0.9589	-0.3974	-0.4135	-0.5924	2.79494	1.80888	
GSM4750	1.50324	-0.905	0.06389	-1.5235	-0.2832	-0.9197	3.34092	2.10935	-0.5526	0.08085	0.60622	-0.2692	-0.4457	0.06354	0.43918	0.76584	-0.9589	-0.3974	0.39888	-0.5924	-0.669	0.64514	
GSM4750	-0.3625	-0.8308	-0.5966	-0.221	3.80685	-1.1028	0.87331	1.29329	-0.5526	-0.5416	-0.8413	-0.2692	-0.0197	1.78173	0.49788	-0.5036	-0.2554	-0.3974	-0.2416	-0.5924	1.56853	0.57891	
GSM4750	0.21671	-0.905	-0.0043	0.57321	-0.2832	-1.1028	-0.0689	0.80951	-0.5526	0.2969	-0.8413	-0.2692	-0.1675	0.1798	-0.762	2.18638	-0.9589	-0.3974	-0.6123	-0.5924	0.77618	0.39277	
GSM4750	-0.3625	-0.905	-0.5621	-1.4268	0.58776	-1.1028	0.72774	0.69226	0.354	-0.5416	-0.3973	-0.2692	2.5842	-0.4955	-0.4026	0.3728	-0.9589	-0.3974	-0.0314	-0.5924	0.05364	-0.4762	
GSM4750	-0.3625	-0.7574	3.11852	-1.2363	-0.2832	-0.4595	-0.2673	1.89371	-0.5526	-0.3107	0.15995	0.14581	-1.0896	2.47021	-0.147	-0.2465	-0.9589	-0.3974	-0.373	-0.5924	1.00762	0.49027	
GSM4750	-0.0862	-0.905	-1.0809	-1.5382	-0.0285	0.27227	3.2727	1.45959	0.61314	-0.5416	-0.0118	0.71031	1.28636	-0.4767	0.89914	1.05613	-0.9589	0.00853	-0.6123	-0.5924	-0.669	-0.6161	
GSM4750	-0.3625	-0.5294	1.48879	-1.2423	-0.2832	-0.1897	-0.1022	2.99892	-0.5526	-0.5416	0.89247	-0.2692	-0.5443	0.64255	-0.9564	-0.5036	-0.241	-0.3974	-0.3099	-0.5924	-0.669	1.81167	
GSM4750	-0.3625	-0.4236	0.32572	-0.0862	-0.2832	-0.4944	0.36011	1.37638	-0.5526	-0.5213	0.1551	-0.2692	-0.1306	0.87301	-0.3912	-0.5036	-0.91722	-0.3974	-0.5624	-0.5924	-0.669	0.94514	
GSM4750	5.53075	-0.905	-0.1018	-0.7969	9.88756	-1.1028	0.35246	-0.4735	1.45737	0.68601	1.48968	1.65951	-1.3384	-0.8417	-1.7338	0.33882	-0.9589	0.41882	-0.6123	-0.5924	3.38536	1.18104	
GSM4750	0.21671	-0.905	-0.0043	0.57321	-0.2832	-1.1028	-0.0689	0.80951	-0.5526	0.2969	-0.8413	-0.2692	-0.1675	0.1798	-0.762	2.18638	-0.9589	-0.3974	-0.6123	-0.5924	0.77618	0.39	

Table-S3: Relative Immune Scores of 792 LUSC patients

Tag	StromalScore	ImmuneScore	ESTIMATEScore
TCGA-34-5234	1.025465691	1.076242958	3828.502618
TCGA-96-7544	0.598534772	-0.003268653	2252.850872
TCGA-85-A513	0.495060209	1.222116877	3386.359923
TCGA-85-8584	-0.380446726	0.547142659	1723.311156
TCGA-85-A511	0.327116712	-0.029414645	1923.88306
TCGA-66-2789	0.244808076	-0.358094693	1497.251174
TCGA-22-0940	0.111828422	0.812043072	2541.593667
TCGA-96-A4JL	0.1076451	1.162917858	2894.503436
TCGA-77-8136	0.428599883	0.730273962	2811.104918
TCGA-63-5131	-0.883969511	-0.806407856	-216.921083
TCGA-90-7964	-0.227792951	-0.309654644	1020.201919
TCGA-85-A5B5	-0.891543263	-1.250761623	-678.1891858
TCGA-37-3789	-0.416986635	0.21692942	1346.096987
TCGA-O2-A5IB	-1.570660881	-2.08621223	-2286.025109
TCGA-58-8390	-0.023348336	-0.596680061	955.4237101
TCGA-66-2777	-0.126807561	0.243140757	1696.028618
TCGA-77-8140	-1.323314124	-1.199890821	-1107.282037
TCGA-98-A538	-0.489002918	-0.554821891	479.4043935
TCGA-66-2785	-0.132727824	0.911940642	2370.994732
TCGA-43-5670	-1.272947118	-1.714581908	-1575.691329
TCGA-22-5472	-0.434718161	-0.196264599	905.2687715
TCGA-60-2704	1.105030081	0.851411568	3688.005433
TCGA-77-6843	-1.438329101	-1.744074934	-1789.960206
TCGA-63-A5MG	-0.304797375	-0.015659168	1234.034284
TCGA-66-2734	0.162883304	0.247694386	2023.345517
TCGA-43-2581	0.473038655	0.868824681	3001.797937
TCGA-52-7811	-0.1761049	-0.288678156	1099.152123
TCGA-85-8287	0.712496688	0.688580024	3084.838054
TCGA-85-8355	0.115381596	1.435190236	3180.588139
TCGA-94-7033	-1.614055326	-0.99227335	-1219.549575
TCGA-60-2697	0.641146165	1.445288343	3776.509435
TCGA-77-8145	0.24544599	-0.902183456	943.4918304
TCGA-85-7844	0.195454911	-0.395851406	1403.801328
TCGA-39-5040	-0.931924102	-1.059487971	-528.244847
TCGA-66-2795	0.374061953	0.096178496	2104.163139
TCGA-33-4586	-0.760956839	-1.162556012	-442.8450363
TCGA-NC-A5HH	-1.278844409	-1.232179538	-1090.653576
TCGA-22-1002	0.270774667	0.091735135	1984.586952
TCGA-60-2695	-0.516915499	-0.357723574	649.172482
TCGA-77-A5G8	-0.562302211	-0.522301639	430.8996416
TCGA-63-A5MP	-0.443857534	0.382288318	1484.680366
TCGA-22-0944	-1.131422137	-1.285530883	-980.8144141
TCGA-21-1081	-0.306832079	-1.275843898	-52.46096322
TCGA-O2-A52V	-0.437840791	-0.274951442	821.6024072
TCGA-33-AASB	-1.995017502	-1.724641281	-2390.23124
TCGA-63-5128	-0.760629087	-1.419406739	-704.2313646
TCGA-96-8170	-0.367921953	-0.194050845	981.926691
TCGA-63-A5MW	-0.030886012	-1.303295241	226.93047
TCGA-37-3792	0.346164296	1.422398774	3424.613287
TCGA-56-A4BX	-1.9824549	-2.156521287	-2816.358414
TCGA-56-8083	-1.043036121	-2.128409309	-1741.324782
TCGA-98-A53H	0.768494334	0.983950962	3448.218418
TCGA-94-A4VJ	-0.52197128	-0.567111322	430.1581923
TCGA-43-7658	-1.392097238	-0.120770574	-84.1874108
TCGA-NC-A5HN	-1.475708927	-1.365560636	-1445.859974
TCGA-63-7021	-0.073979595	0.147910483	1657.824564

TCGA-22-5471	-0.379255479	0.366317616	1540.362886
TCGA-77-8133	-0.567055656	0.439610823	1405.870555
TCGA-37-A5EM	0.450198965	0.175942689	2270.25554
TCGA-85-8071	-1.227054346	-1.10876815	-907.2004027
TCGA-NC-A5HP	-0.136495767	-1.277707251	135.3717127
TCGA-85-A4PA	-0.106647877	2.089261427	3599.828148
TCGA-33-4582	-1.262863972	-1.349883231	-1192.802996
TCGA-43-2578	-0.648921564	-0.496443377	360.7690491
TCGA-34-A5IX	-1.093832782	-0.598315952	-238.6180761
TCGA-56-8504	-0.288577094	-0.276462679	986.3218783
TCGA-18-5595	-1.244101872	-1.663562586	-1491.568868
TCGA-21-5784	-1.32E-01	0.377518799	1826.966417
TCGA-90-A4ED	-0.332468985	-0.68571269	520.3738181
TCGA-MF-A522	-1.485677393	-1.373119074	-1464.666148
TCGA-46-3768	-0.795944832	-0.823229675	-136.0162898
TCGA-77-7335	1.391190939	1.170692668	4332.122806
TCGA-56-A4BY	-0.88547875	-0.863088595	-276.3643698
TCGA-85-8070	-1.901898515	-1.943437906	-2509.480532
TCGA-56-7579	-0.551940557	-0.804123671	155.2419676
TCGA-NC-A5HG	-1.581851315	-1.472608101	-1673.178133
TCGA-56-8305	-0.531533546	-1.037616156	-59.97487197
TCGA-60-2703	-0.01706485	-1.053622711	496.7616169
TCGA-39-5036	-1.673381602	-0.829138379	-1119.383449
TCGA-33-6737	-0.192945031	-0.19990947	1170.856878
TCGA-34-2608	0.854106886	0.647973673	3201.191521
TCGA-39-5024	-1.070244369	-0.429152103	-39.9523087
TCGA-77-7142	-0.43205067	-0.665429758	430.1232356
TCGA-85-8350	-0.139633451	-0.296440629	1131.865797
TCGA-O2-A52Q	-0.017249573	0.936456627	2524.60561
TCGA-68-8250	-0.453836373	-0.082930525	999.4701437
TCGA-70-6723	-1.590652849	-1.674294129	-1888.516017
TCGA-68-8251	0.257681447	-0.013211733	1863.05364
TCGA-85-7697	-0.412143576	-0.337053792	786.9383709
TCGA-66-2756	-0.723149357	-0.932961337	-166.7573158
TCGA-85-6561	0.980539883	0.662260801	3356.58048
TCGA-94-7943	-0.866914366	-0.653297489	-41.89227222
TCGA-22-1011	-0.065339455	0.623979876	2152.601235
TCGA-85-8664	-1.820663966	-1.480683824	-1947.412887
TCGA-63-A5MH	-0.906164862	-1.34464821	-790.1535952
TCGA-94-8490	-1.431298492	-1.677315784	-1714.096155
TCGA-85-8481	0.183232769	-0.150626776	1640.090996
TCGA-60-2716	-1.554604552	-1.815371246	-1992.131944
TCGA-O2-A52S	-1.083650533	-0.317709547	58.68390309
TCGA-51-4080	-1.242493257	-1.297735261	-1116.969833
TCGA-22-5485	-0.768178252	-0.844256454	-126.5160465
TCGA-85-6175	1.249568546	0.623461846	3616.702739
TCGA-85-8276	0.560406752	0.473797987	2696.55042
TCGA-77-8008	1.135210501	0.3714328	3232.485643
TCGA-39-5028	0.13923723	0.052031595	1797.610986
TCGA-34-5928	0.739778024	-0.280374895	2127.783336
TCGA-43-6773	0.838944505	1.033994407	3577.688632
TCGA-63-A5MI	-1.17441083	-1.545608611	-1293.737967
TCGA-63-A5ML	-0.551041168	-0.707303248	254.911507
TCGA-39-5030	0.705882363	1.352794155	3754.357827
TCGA-51-4079	-0.323237184	-0.346255096	876.5911865
TCGA-22-5491	-1.410210588	-0.895683633	-894.0615115
TCGA-66-2744	0.339818815	1.242565493	3234.280809
TCGA-33-4547	-0.236255275	-0.408877137	909.6603933

TCGA-52-7810	-0.860790244	-1.364342798	-759.6827748
TCGA-77-7139	-0.769211515	-0.923878984	-208.8086784
TCGA-66-2800	-0.09478775	0.145304896	1631.991796
TCGA-33-4566	-0.345401202	0.416629499	1629.343791
TCGA-90-7766	-0.984018553	0.212506831	709.9932593
TCGA-60-2707	0.224475642	-0.184582114	1651.426769
TCGA-56-8628	0.330686389	0.57522069	2544.030881
TCGA-85-8666	0.19535043	-0.081605873	1723.92624
TCGA-60-2721	0.045795669	0.499879914	2149.922939
TCGA-22-4596	0.896317535	1.407394838	4022.119274
TCGA-33-A5GW	-1.663732618	-1.677496318	-1973.180268
TCGA-60-2715	1.007280345	0.927548246	3656.714821
TCGA-85-8351	-0.681416568	-0.705960136	111.0597088
TCGA-58-A46M	-0.840818964	-0.134830896	515.5333289
TCGA-37-4129	-1.239574923	-2.055291471	-1885.729473
TCGA-21-1075	-1.343705296	-1.844400925	-1786.802298
TCGA-43-7656	-0.090858776	0.538176408	2036.735583
TCGA-58-8388	0.089264734	0.112345983	1803.413571
TCGA-98-A53J	-1.239306093	-1.204506216	-1018.411924
TCGA-85-7696	-0.529269532	-0.720546741	265.665985
TCGA-34-5231	-0.75985464	-0.523580758	209.5494687
TCGA-34-5929	-0.612780044	-0.544849088	351.6965223
TCGA-22-5492	-0.090780824	0.640593598	2141.193706
TCGA-98-A53C	1.003498559	1.560443192	4297.47291
TCGA-94-8491	-0.814272196	0.067727137	751.5256427
TCGA-90-7767	0.343819475	0.284381201	2262.270698
TCGA-96-8169	-0.216924423	-0.163677923	1181.069921
TCGA-34-2596	-0.440841875	-0.296373409	796.428912
TCGA-56-A62T	-0.450835192	-0.652174585	422.707903
TCGA-21-1071	-0.188850443	-0.373258574	998.7611144
TCGA-22-5480	-0.249783306	0.526066723	1847.374446
TCGA-77-A5GH	0.237583551	0.925908807	2797.706125
TCGA-L3-A4E7	-0.579201473	-0.198880471	741.6681489
TCGA-60-2723	-0.027081028	0.295027945	1859.987657
TCGA-37-3783	0.123468053	0.755313173	2496.746342
TCGA-66-2763	-0.623775803	-0.431092818	455.3754583
TCGA-63-6202	0.426532737	1.116402916	3202.298632
TCGA-L3-A524	-0.759368915	-1.2870164	-567.9113781
TCGA-98-8021	-0.296556857	-0.820011347	423.5140096
TCGA-77-A5GF	-0.577623262	-0.665158168	268.2518568
TCGA-66-2787	-0.101242217	0.201973846	1682.55258
TCGA-77-8138	0.023594205	-0.05752245	1557.155999
TCGA-63-A5MR	-1.057478832	-0.786482338	-389.8812712
TCGA-66-2768	-0.665640917	0.127360075	977.851482
TCGA-77-8146	-0.515778001	-0.564540204	439.6768405
TCGA-43-A56V	-0.848762092	-0.867840202	-240.3092521
TCGA-22-1005	0.500729345	1.53453317	3711.05172
TCGA-66-2780	0.063313958	-0.225556691	1430.158116
TCGA-77-8156	0.227028796	0.763493481	2620.435371
TCGA-66-2790	-0.089698054	-0.1199771	1367.317492
TCGA-98-8022	-0.231399048	0.122452117	1456.536508
TCGA-58-A46L	-0.324387174	-0.235944092	987.7259763
TCGA-O2-A52N	-0.746037753	-0.360205128	391.4324219
TCGA-63-7022	1.18948229	1.029190815	3963.245004
TCGA-37-4135	-0.648182328	-0.281967532	580.1604697
TCGA-66-2727	-0.489387005	-0.321037618	717.2214142
TCGA-34-7107	0.243194448	-0.65217267	1195.764871
TCGA-NC-A5HD	-1.375497688	-1.801573286	-1778.569933

TCGA-56-7582	-0.509233472	-0.589630584	421.3974598
TCGA-18-3415	0.000594676	0.120508611	1712.965507
TCGA-56-7580	-0.761493562	-0.792771793	-66.60322727
TCGA-33-AASL	-1.442896861	-0.556796864	-585.1169161
TCGA-43-2576	0.583600147	0.631943986	2883.548121
TCGA-77-A5FZ	1.132066428	2.03195983	4921.193206
TCGA-33-4583	-1.270133153	-0.561827384	-397.8080458
TCGA-46-6026	-1.547557067	-1.460578977	-1622.720348
TCGA-18-3414	-0.431176163	-0.270558195	833.5029711
TCGA-63-A5MY	-2.013117514	-1.998423609	-2689.398255
TCGA-56-8082	-1.142365034	-1.396746892	-1106.341313
TCGA-60-2712	0.559858756	1.173126388	3408.611507
TCGA-60-2698	-0.074610437	0.613986711	2132.090783
TCGA-52-7809	-0.951099625	-1.073871886	-564.2621402
TCGA-34-5232	-0.675741414	0.807023032	1659.231719
TCGA-18-4083	-0.225715623	-0.615814199	710.5147473
TCGA-37-A5EN	-1.047951346	-0.745504679	-337.5094363
TCGA-85-A510	-0.601216364	-0.028558129	890.718608
TCGA-60-2720	-0.206349421	0.365389178	1732.010662
TCGA-60-2710	-0.07012645	0.016629333	1528.330471
TCGA-94-8035	-1.240324448	-1.104517664	-917.6499144
TCGA-22-4593	0.166088882	-1.079838331	674.0542573
TCGA-18-3419	-0.976995543	0.041951235	544.0061711
TCGA-66-2793	-1.736304752	-1.91913874	-2300.268719
TCGA-21-1079	0.088224725	-0.724802118	949.1343818
TCGA-92-8064	0.390439822	0.94973276	2992.245816
TCGA-63-7023	-0.907736685	-0.82370019	-261.0167647
TCGA-60-2706	-0.290515537	0.359117018	1631.869177
TCGA-98-7454	1.210013697	1.187161064	4147.098508
TCGA-37-4141	-0.413420664	-0.193339431	931.9722782
TCGA-22-5477	-1.009830072	-0.881568355	-433.7072504
TCGA-33-4533	-0.255965975	-1.239315306	41.42253928
TCGA-77-8128	-0.347806922	-1.842208071	-675.2717043
TCGA-56-8309	0.405294493	1.458363863	3527.127616
TCGA-56-A5DR	-0.42083098	-0.683931589	423.7656072
TCGA-37-4130	-0.264922177	1.378773673	2699.488263
TCGA-58-A46J	-0.568734235	-0.189778445	762.6029249
TCGA-43-6143	-0.454766396	-1.214256769	-154.4775534
TCGA-77-A5G6	-1.270056515	-1.280201101	-1129.802861
TCGA-39-5031	-0.092376174	-0.034523902	1451.418062
TCGA-90-A59Q	0.108483961	1.139325003	2871.394811
TCGA-68-7755	-0.392078166	-1.340891973	-213.7027399
TCGA-66-2767	0.305379212	1.241848909	3195.189499
TCGA-66-2771	-0.006861092	1.02561288	2627.034312
TCGA-85-6560	0.327738037	0.08722643	2043.441701
TCGA-56-8304	-1.244057418	-0.461441911	-266.4623961
TCGA-56-7221	-1.418467126	-1.447760035	-1465.868113
TCGA-18-3421	-0.553400749	0.030926595	1004.598411
TCGA-51-6867	-0.508272571	-0.586144045	426.0208341
TCGA-NC-A5HL	-0.857783769	0.241291729	879.935822
TCGA-77-A5G1	-0.26467833	0.058919243	1354.722823
TCGA-96-7545	0.179857026	0.328405408	2124.50292
TCGA-NC-A5HM	-1.327556108	-0.627393722	-528.586774
TCGA-33-4589	-0.426096758	0.401897996	1524.447293
TCGA-85-A4QR	-2.240102839	-2.00716949	-2951.141914
TCGA-60-2711	-1.117592389	-0.636719359	-304.2191986
TCGA-33-4532	-1.520646959	-1.459354342	-1591.498133
TCGA-NC-A5HJ	-0.07531946	1.071201586	2597.239494

TCGA-21-5787	-0.076986682	0.659947707	2176.281894
TCGA-85-8479	-1.222625147	-1.514106294	-1315.338809
TCGA-34-5240	-0.094957645	-0.633517072	838.1207834
TCGA-77-8148	-0.319480509	-0.830576227	387.2137095
TCGA-56-8626	-0.447024901	-0.621228663	458.4884154
TCGA-33-A4WN	-1.103013923	-0.909978161	-566.4532997
TCGA-39-5027	-1.875687504	-1.669740129	-2201.365128
TCGA-56-8503	0.948596275	0.597748003	3255.255934
TCGA-56-8623	0.80265673	1.566976848	4080.420631
TCGA-77-6845	-1.141928717	-1.808257073	-1525.217047
TCGA-85-A50Z	-0.971546486	-0.113623078	391.5330352
TCGA-77-8144	-1.108975132	-0.850646854	-512.6299402
TCGA-85-A53L	-0.876871465	-0.971289483	-377.0423642
TCGA-XC-AA0X	-0.279532459	0.316572654	1600.746734
TCGA-66-2782	0.113764197	0.44834864	2173.116191
TCGA-68-A59I	0.114978828	0.118895133	1838.729696
TCGA-77-A5G7	-1.517395005	-1.329890131	-1455.941527
TCGA-90-A4EE	0.387485817	1.424555057	3472.837289
TCGA-98-8023	0.386182896	0.55795417	2588.250512
TCGA-34-8456	-0.659931382	-0.745519003	94.67765098
TCGA-56-5897	0.969634468	0.617896064	3299.222115
TCGA-66-2786	-0.282955158	0.155438561	1432.725805
TCGA-39-5037	-2.077191141	-1.805462474	-2564.124792
TCGA-56-6545	0.95940524	0.567335519	3236.302908
TCGA-NK-A5CT	-1.365318377	-0.685914235	-630.2859023
TCGA-22-1016	0.471527978	0.370213839	2491.990986
TCGA-39-5016	-0.925226359	0.264208168	828.1675918
TCGA-63-A5MM	0.444132406	0.753976437	2852.56076
TCGA-33-4538	-1.000256873	-0.859714626	-400.7733083
TCGA-63-A5MT	-0.02846392	0.019670133	1577.835705
TCGA-18-3416	-0.607403701	0.862869933	1792.263127
TCGA-66-2753	-0.214352986	-0.397576477	945.5728518
TCGA-63-7020	-0.530223751	0.048425844	1048.247579
TCGA-56-8308	-0.310705676	-0.483705012	750.4771498
TCGA-18-3408	-0.174404787	-0.150088682	1242.279558
TCGA-NK-A5D1	-1.346620595	-1.469319656	-1407.811784
TCGA-85-6798	-0.337000031	-1.408308882	-221.0563712
TCGA-22-4599	-0.084203178	0.828658941	2340.173913
TCGA-56-A4ZK	-0.47934305	0.182347235	1241.39838
TCGA-56-7731	0.343915835	0.340684384	2319.75547
TCGA-92-7341	-0.080345075	-0.808446778	676.1298696
TCGA-85-8353	0.463346061	0.150547669	2259.020071
TCGA-85-A4QQ	-1.341983268	-1.047909865	-973.1962033
TCGA-77-6842	0.039704245	0.942373853	2594.074575
TCGA-22-4595	0.146415288	0.066059315	1819.901737
TCGA-33-4587	-1.060061171	-1.410309454	-1028.48729
TCGA-56-A4BW	-0.346473056	-0.430062228	765.3034133
TCGA-21-1076	0.750871087	1.227073541	3676.349829
TCGA-6A-AB49	-2.048981267	-1.464918508	-2185.661321
TCGA-63-A5M9	-0.547210752	-0.554031657	415.3740621
TCGA-39-5022	0.59798522	1.254188986	3533.688484
TCGA-43-6771	-0.05715588	-0.276588335	1243.965712
TCGA-98-8020	0.086069597	-0.062706645	1621.462017
TCGA-77-7141	-0.95797164	-1.143952196	-643.3340653
TCGA-92-7340	0.844858624	0.134916627	2668.044114
TCGA-56-8622	-0.060328059	-0.553515337	958.2216085
TCGA-70-6722	0.355044922	0.104134397	2091.088439
TCGA-43-A56U	0.095712963	1.356456174	3078.443649

TCGA-66-2770	0.091997607	0.047699752	1740.57795
TCGA-85-7710	-0.850051088	-0.408637193	226.2195139
TCGA-58-8387	-0.674486809	0.538278411	1386.756951
TCGA-85-8352	-1.884326039	-1.781035167	-2324.405816
TCGA-21-5786	-0.436896551	-0.794468062	293.2252445
TCGA-33-AASI	-1.152409121	-0.155938391	146.9538731
TCGA-56-8625	0.874268388	1.349265386	3938.320956
TCGA-34-2600	-1.461514403	-1.220972782	-1282.702629
TCGA-60-2726	-0.958908155	-0.189225381	328.5656404
TCGA-77-8153	-1.335829735	-1.795557688	-1728.254831
TCGA-66-2791	0.280444326	0.728545159	2644.317905
TCGA-68-7756	-0.342205911	-0.680198694	515.1474039
TCGA-94-7557	-0.446308058	-0.59726559	483.7071664
TCGA-56-A5DS	-0.609167233	-0.011812958	898.9270843
TCGA-22-4613	-0.459989988	0.284405364	1366.960452
TCGA-77-8130	0.094454728	-0.959350204	717.0505348
TCGA-21-1080	-0.890470368	-0.520366904	67.33641259
TCGA-98-A53I	-0.354883206	0.361757119	1562.862786
TCGA-34-5236	0.535618774	-0.210101449	1971.991835
TCGA-21-5782	-0.16755779	-0.458604792	935.5036354
TCGA-60-2708	0.444166739	-0.878562927	1188.911034
TCGA-96-A4JK	-0.59144869	-0.367834569	555.8486904
TCGA-66-2788	0.556567708	0.378877677	2595.54287
TCGA-56-8624	-0.158541367	-0.565226603	836.8905707
TCGA-22-5473	-0.524521857	-0.734736401	256.4938548
TCGA-21-A5DI	-0.952575038	-1.20472115	-699.2513986
TCGA-85-8049	0.711913616	0.919527959	3319.542978
TCGA-21-5783	-0.353115913	-1.360969952	-190.7651316
TCGA-46-3765	-0.295376222	-0.180927557	1076.10649
TCGA-39-5021	-0.223779956	0.035648358	1376.563182
TCGA-90-6837	0.549140382	0.432135804	2641.544118
TCGA-39-5011	-0.226466693	1.091249317	2449.312186
TCGA-39-5019	-0.143053645	-0.167336511	1259.62357
TCGA-98-A539	-0.504645455	-0.537217503	479.9210024
TCGA-66-2781	-0.346751607	-0.433604375	761.3834151
TCGA-37-5819	-0.664221371	-0.638180927	199.2852556
TCGA-56-8201	0.735357503	1.259351128	3691.963235
TCGA-63-A5MB	-0.970366228	-0.780165409	-286.4121744
TCGA-60-2722	-1.067344925	-1.296775304	-920.9000416
TCGA-85-8048	0.500910362	1.047549956	3214.978569
TCGA-56-7223	-1.431409623	-2.418594296	-2469.641933
TCGA-43-8115	0.967909063	0.795600031	3478.394779
TCGA-18-5592	-0.877907725	-0.973701125	-380.6542734
TCGA-77-7337	0.400101294	-0.407404867	1619.975781
TCGA-60-2719	-0.894520498	-0.560302422	22.12763501
TCGA-22-5478	-0.09160751	-0.485053829	993.148279
TCGA-66-2757	-0.395520946	-0.21103022	933.881812
TCGA-18-3406	0.37104932	0.533500824	2546.473846
TCGA-77-A5GB	0.007621304	0.123355939	1723.693873
TCGA-21-1070	-0.178106506	0.791922883	2198.141347
TCGA-43-A475	-0.233990391	1.248261097	2600.939346
TCGA-85-7698	0.162544696	-0.099562644	1669.085712
TCGA-85-7843	-0.029724614	-0.435637103	1112.437034
TCGA-NC-A5HT	-1.307129411	-2.099370059	-2005.895623
TCGA-58-8393	-0.105833558	0.799548098	2286.414325
TCGA-66-2737	0.810442651	0.082770956	2576.568778
TCGA-LA-A7SW	-0.84434729	-0.888495483	-256.4411417
TCGA-77-8007	0.432450577	0.780921015	2867.007459

TCGA-85-8354	-1.436824566	-1.233222335	-1267.684769
TCGA-22-5474	-0.14247723	0.752144531	2197.290218
TCGA-77-7140	-0.547643649	-1.25428381	-298.7209849
TCGA-22-4601	-0.899676746	-0.964471102	-395.4958837
TCGA-66-2794	-0.68263032	0.652852243	1494.446067
TCGA-22-1017	-0.723302679	-0.031159973	752.0795019
TCGA-77-A5GA	-1.027964478	-0.884798586	-457.1983864
TCGA-56-7222	-1.297761112	-1.284463155	-1165.005403
TCGA-85-7699	0.286918249	0.718654618	2641.449728
TCGA-66-2758	-0.418199026	0.517585936	1651.139545
TCGA-85-7950	0.25904642	0.287874883	2171.405339
TCGA-39-5034	0.163117991	-0.378025284	1385.94862
TCGA-85-8052	-0.730537637	-0.760737291	0.523196319
TCGA-43-3394	-0.609123316	-0.969954687	-77.44692763
TCGA-NK-A5CX	-0.178087783	-0.037807729	1352.600456
TCGA-39-5035	-0.293094669	0.543751551	1817.153705
TCGA-43-6647	0.953774135	0.435364938	3095.54206
TCGA-18-4086	-0.000870125	-0.1140821	1472.267251
TCGA-NC-A5HF	-1.556843529	-1.749143096	-1927.134088
TCGA-39-5029	-0.338858167	0.017000911	1229.378404
TCGA-43-5668	0.034934413	0.892968587	2538.413716
TCGA-22-1012	-0.610828267	-0.426367073	474.6131717
TCGA-34-8454	0.186166713	0.720872876	2531.486745
TCGA-60-2709	0.924807945	1.042163078	3681.653404
TCGA-85-A512	-0.704786112	-0.98450126	-198.8264443
TCGA-NC-A5HI	-1.520259697	-0.984846338	-1107.50523
TCGA-18-3409	1.022772841	-0.021924487	2706.382835
TCGA-56-8307	-0.842067447	0.165571623	820.2768417
TCGA-85-8288	0.177079882	-0.289585106	1491.62788
TCGA-18-3410	-0.458029832	0.604510046	1695.356031
TCGA-22-1000	1.12781969	1.025356885	3890.65414
TCGA-66-2778	-0.613888581	0.125814925	1033.921943
TCGA-34-5239	0.72003301	0.593578981	2996.418848
TCGA-34-8455	-0.279039456	-0.690539919	574.9677448
TCGA-66-2765	-0.137345702	0.269638069	1711.293433
TCGA-85-8277	-0.879359863	-0.587116624	11.68871671
TCGA-92-8065	-0.290643286	0.292336328	1563.672028
TCGA-46-3766	1.362669416	1.188862453	4318.870154
TCGA-77-8131	0.570468128	1.375199186	3626.357227
TCGA-94-A5I4	-1.087248156	-1.047640499	-689.1812854
TCGA-18-3407	0.044318423	-0.426703783	1204.014715
TCGA-77-8139	-0.279462899	-0.669031913	596.4144617
TCGA-21-1078	-1.713981941	-1.540793979	-1889.840609
TCGA-18-3411	-0.195189465	-0.060683223	1310.239544
TCGA-66-2742	-0.293609479	-0.210162276	1048.281888
TCGA-56-1622	-0.973575014	-1.50670242	-1030.385555
TCGA-77-A5G3	-0.847283807	-0.939817834	-312.0135973
TCGA-22-5482	-0.52859754	-1.170124519	-191.7411611
TCGA-NK-A7XE	-1.548175091	-0.889428095	-1041.360389
TCGA-22-5489	0.774256734	0.791581641	3258.597253
TCGA-O2-A52W	-1.339418631	-0.909326034	-829.1115562
TCGA-52-7812	-0.567838359	0.409647616	1374.463829
TCGA-46-6025	-0.770390994	-1.029286895	-317.5415344
TCGA-58-8391	-1.202456474	-1.24288108	-1016.473489
TCGA-85-A50M	-0.303810775	-0.761354943	475.2096866
TCGA-18-3417	0.528508619	-0.309385127	1862.89409
TCGA-60-2724	0.195653036	-0.719036164	1074.670937
TCGA-94-A5I6	-0.714292417	-1.135628816	-363.4262269

TCGA-43-8116	-0.722492292	-0.242004581	538.1146724
TCGA-34-5241	0.521762584	0.565212339	2746.664575
TCGA-77-7338	0.185654039	-0.401234393	1387.39879
TCGA-56-7822	-0.63215466	-0.661987541	210.7423875
TCGA-85-A4JC	-0.058145288	-0.060314698	1463.263752
TCGA-66-2792	-0.381951511	-0.849172771	298.678112
TCGA-98-A53A	-1.321486615	-1.105670906	-1009.228821
TCGA-22-4594	0.253211861	0.584433791	2467.123638
TCGA-58-8386	0.060511021	0.208444019	1869.317402
TCGA-22-5481	-0.817917378	0.005295832	683.8429197
TCGA-66-2754	-1.257420784	-1.544179908	-1384.743851
TCGA-21-1082	-0.169184746	0.044479902	1446.3749
TCGA-58-8392	-1.459491657	-1.42529793	-1488.673205
TCGA-60-2713	0.642922066	0.553812392	2870.002372
TCGA-22-5479	-0.492718965	-0.479193679	552.3364072
TCGA-37-4133	-0.471803672	-0.08592387	976.4065488
TCGA-63-A5MU	-1.613156853	-1.572173571	-1809.513428
TCGA-66-2769	0.530188033	0.71096421	2904.582178
TCGA-LA-A446	-1.351920522	-1.013842412	-949.5475033
TCGA-66-2759	-0.217409374	0.077468864	1426.277582
TCGA-22-4609	0.427248531	0.757017069	2836.853056
TCGA-66-2773	-0.249806185	0.292210254	1609.030545
TCGA-66-2755	0.236081597	1.049058855	2921.532883
TCGA-77-8150	-0.635349478	-0.155280217	723.5590159
TCGA-37-A5EL	-1.722289315	-1.304676956	-1658.471798
TCGA-77-8009	-0.609876842	-1.058286614	-168.3035391
TCGA-33-AAS8	-1.750076503	-1.319973291	-1705.011149
TCGA-58-A46N	-1.49263495	-1.556757728	-1659.558377
TCGA-33-AASD	-0.983475829	-1.310981758	-841.958739
TCGA-63-A5MS	0.272861211	0.47019233	2372.58918
TCGA-43-A474	-0.776503153	-1.925638605	-1237.803618
TCGA-43-6770	-0.179774465	-0.678121653	698.1907052
TCGA-22-4607	-0.115660115	-0.274408955	1181.020882
TCGA-58-A46K	-1.04259884	-0.93466464	-524.3165733
TCGA-77-7465	-0.287447474	0.572268939	1852.505411
TCGA-18-4721	0.333071851	0.557928809	2529.066156
TCGA-85-A4CL	-0.449301659	0.262003273	1356.036283
TCGA-22-4604	0.672633412	0.461045952	2808.560377
TCGA-56-7730	-1.81482604	-1.902211169	-2370.480251
TCGA-39-5039	0.293116303	-0.226722404	1684.938849
TCGA-J1-A4AH	-1.354981998	-1.201593073	-1144.290489
TCGA-92-8063	-0.344979948	-0.65398471	538.771644
TCGA-46-3769	0.080099549	0.396555399	2082.836885
TCGA-43-8118	-0.270388245	-0.118521384	1167.536584
TCGA-NC-A5HO	-1.127438841	-0.669834549	-348.9338357
TCGA-22-4605	0.317007444	0.042416614	1985.824493
TCGA-60-2714	-0.321273022	0.172797633	1407.735174
TCGA-33-6738	-1.231833104	-0.748213974	-545.089797
TCGA-63-A5MV	0.063441802	0.144111316	1807.021733
TCGA-85-A4CN	-0.022299168	-0.645016847	907.3332975
TCGA-NC-A5HK	-1.456708816	-0.920225026	-970.8638791
TCGA-43-3920	0.40925344	0.084651563	2131.614824
TCGA-21-1072	-0.652784691	-1.130733725	-289.9264633
TCGA-98-A53B	-0.602255855	-0.266299572	647.2832426
TCGA-85-8072	-0.815309559	-0.353721643	320.8802019
TCGA-68-A59J	-0.555992509	-0.009216724	960.8022924
TCGA-66-2766	-0.601195979	-0.760675203	144.6555575
TCGA-NC-A5HR	-1.446959325	-1.147627343	-1191.745385

TCGA-NC-A5HE	0.032863758	1.438265135	3091.808011
TCGA-98-A53D	0.952636923	0.937286161	3605.773164
TCGA-66-2783	-0.317045328	-0.272811	958.3334738
TCGA-77-7138	-1.021233695	-0.930925319	-496.708029
TCGA-56-8629	-0.764008941	-0.907752517	-186.5795571
TCGA-79-5596	-1.129967349	-1.423886058	-1120.188948
TCGA-63-A5MJ	0.011287149	-0.752403768	835.3080579
TCGA-56-6546	0.047152891	0.715716423	2371.38934
TCGA-51-4081	-0.401094077	-1.696680237	-586.3218945
TCGA-34-5927	-1.011719183	-1.454157815	-1019.325844
TCGA-85-8582	0.616655654	-0.247105454	2024.545908
TCGA-77-8154	-1.087158282	-1.705362221	-1359.352131
TCGA-77-6844	-0.946326496	-0.673060225	-150.4864347
TCGA-85-8580	-1.297986173	-0.642936497	-511.4892015
TCGA-56-A4ZJ	0.736152164	0.51848883	2937.850543
TCGA-21-1083	-0.310036527	-0.123423868	1118.377745
TCGA-46-3767	1.160302847	0.721594391	3617.277739
TCGA-56-5898	-0.203583208	-0.31809394	1038.567976
TCGA-68-7757	0.124753777	-0.387080174	1333.988426
TCGA-56-A49D	-0.515793898	0.381656528	1403.909155
TCGA-18-3412	-0.627526255	-0.557116129	322.770147
TCGA-37-4132	-0.351186715	0.229154767	1431.847791
TCGA-22-5483	0.069624243	-0.431017688	1227.805757
TCGA-85-A4JB	-0.600699134	-0.978431616	-76.70219773
TCGA-60-2725	0.454113112	0.943070421	3056.379782
TCGA-77-7463	-1.050554803	-0.725744451	-320.2720846
TCGA-33-AASJ	-1.758934854	-1.36138548	-1757.080479
TCGA-43-7657	-0.388129964	-1.402233757	-271.8171543
TCGA-22-A5C4	-1.080066514	-0.961714049	-593.6159953
TCGA-90-7769	-1.233006016	-1.537592138	-1350.835641
TCGA-21-1077	-0.297388818	-0.343285109	908.4094192
TCGA-NC-A5HQ	-1.116877175	-0.094776588	248.8604099
TCGA-60-2696	-0.242803192	0.164990747	1487.184096
TCGA-22-4591	-1.146020082	-1.012053724	-718.3794855
TCGA-77-8143	-1.378625915	-0.973879931	-938.5687352
TCGA-NK-A5CR	-1.425994048	-1.590847477	-1620.069614
TCGA-56-7823	-1.260794526	-1.227677378	-1065.960391
TCGA-63-A5MN	0.70102641	1.384218798	3780.973175
TCGA-52-7622	-0.011660087	0.560756603	2147.963216
GSM442070	2.697738748	2.371455702	7011.113512
GSM442071	2.772890515	2.05678316	6774.145956
GSM442072	2.941422207	2.988864666	7911.732913
GSM442073	2.9397058	2.001323702	6903.437974
GSM442074	2.837232427	2.257069868	7049.922279
GSM442075	1.98441281	1.581888308	5411.932814
GSM442076	2.687737564	1.534477871	6147.026306
GSM442077	2.018620732	1.320083694	5183.235999
GSM442078	1.356742853	0.82170737	3938.108419
GSM442079	2.281471036	2.029122586	6198.582882
GSM442080	1.810517517	2.036788135	5681.816255
GSM442081	1.705631912	0.774590137	4278.707353
GSM442082	2.929478689	2.484583065	7384.526235
GSM442083	2.399748643	2.28623977	6592.351057
GSM442084	3.351391216	2.646245806	8019.226886
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GSM442087	2.750087082	1.725862087	6411.511023
GSM442088	1.219063373	0.726215189	3687.437969

GSM442089	1.597461131	1.6156016	5015.277588
GSM442090	2.891759378	1.360508033	6196.98982
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GSM442092	2.259137777	1.420436974	5553.407415
GSM442093	2.370331124	0.835543945	5081.209045
GSM442094	2.475479546	1.146757619	5515.481729
GSM442095	2.182327377	2.233268524	6296.191286
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GSM442097	1.444176352	1.901447425	5135.838825
GSM442098	0.447125659	-0.981458832	1087.347727
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GSM442102	2.667876374	2.011835005	6611.368668
GSM442103	1.490229907	0.830261119	4095.511871
GSM442104	3.138556496	2.029518841	7153.663814
GSM442105	2.171029725	1.910094437	5954.267032
GSM442106	2.725305133	2.882274263	7562.383633
GSM442107	2.169842164	1.621972883	5659.32538
GSM442108	2.12294333	1.434980021	5416.525774
GSM442109	1.83650668	0.767596257	4417.356796
GSM442110	2.266863597	1.373133609	5513.807026
GSM442111	2.482409163	1.760883642	6149.043837
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GSM442113	2.947800297	2.297346586	7214.125102
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GSM442115	3.081451171	2.422407859	7490.441498
GSM442116	3.101002552	3.028544866	8129.921096
GSM442117	2.421400239	2.239411275	6568.746027
GSM442118	2.509039217	0.663722304	5060.6111
GSM442119	2.884533334	2.012739002	6853.616428
GSM442120	2.755171065	1.96915701	6665.110846
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GSM4750622	0.334130171	0.594278526	2567.288245
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GSM4750624	0.025077654	-0.296217167	1315.559385
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GSM4750626	-0.226927792	0.377723775	1721.659083
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GSM4750629	0.359421742	-1.343777685	620.4256001
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GSM4750631	-0.282877385	-0.692600727	568.592683
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GSM4750636	-0.411849616	-0.064630993	1064.886388
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GSM4750643	0.406895201	0.549862648	2603.075308
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GSM4750650	0.774903699	1.337743146	3815.900068
GSM4750651	0.249407826	-0.926871552	922.7456385
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GSM4750655	-0.255734749	-0.862255752	425.9338871
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GSM4750660	0.007618057	0.581611125	2190.688882
GSM4750661	-1.139424998	-1.148992962	-850.5854734
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GSM4750664	1.492859245	1.090121141	4363.25871
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GSM4750666	1.744369238	1.30627834	4863.688221
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GSM4750672	-1.119967153	-0.891314654	-566.3172985
GSM4750673	0.274194476	0.358271165	2260.017653
GSM4750674	0.356053335	0.821404352	2823.167032
GSM4750675	0.301090547	0.421866157	2354.784608
GSM4750676	1.174807505	1.230692942	4152.246038
GSM4750677	1.13749346	0.735401833	3605.942057
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GSM4750681	-0.543364562	-0.146681711	834.7803172
GSM4750682	0.515444946	1.085689795	3270.035669
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GSM4750834	0.281733495	0.667304094	2583.344331
GSM4750835	1.057638402	0.702476755	3483.441056
GSM4750836	1.141084475	1.090077825	3971.385118
GSM4750837	0.261982581	-0.017197456	1863.782751
GSM4750838	0.126866562	0.484849731	2224.907978
GSM4750839	0.656230749	0.647089339	2979.883098
GSM4750840	0.702059034	0.524350878	2905.849308
GSM4750841	0.485517389	0.941258106	3089.512999
GSM4750842	1.166975531	1.09653143	4006.800987
GSM4750843	0.784056256	0.89334444	3373.217012
GSM4750844	0.458488861	-0.047369539	2051.91637
GSM4750845	0.621153774	1.007216972	3307.810913
GSM4750846	0.332766672	1.024965652	3004.674064
GSM4750847	-0.532478612	-0.610713815	374.0200255
GSM4750848	-0.017337519	0.318431023	1894.690211
GSM4750849	0.81255074	0.181477682	2679.506939
GSM4750850	1.895052121	1.714392665	5447.42963
GSM4750851	0.448695099	0.954305752	3061.79455
GSM4750852	0.457725952	-1.322346884	751.7628729
GSM4750853	1.389435957	1.209126043	4369.334671
GSM4750854	0.881708805	1.084386238	3676.675571
GSM4750855	0.226586695	0.357412563	2206.114049

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FR008 17855 -0180 18422 3297 6165 65 96399
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FR010 17857 -0180 18424 3299 6167 67 96401
FR011 17858 -0180 18425 3300 6168 68 96402
FR012 17859 -0180 18426 3301 6169 69 96403
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FR288 18135 -0180 18702 3577 6445 345 96679
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FR295 1

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GP9B 13629 -1808 14071 1466 1404 72729
GP10B 13629 -1808 14071 1466 1404 72729
...
GP98B 13629 -1808 14071 1466 1404 72729

Table-S5: ICI signature genes A and B

Symbol	Group
A2M	ICI signature genes A
AADAC	ICI signature genes B
ABCA3	ICI signature genes A
ABCA6	ICI signature genes B
ABCA8	ICI signature genes B
ABCD2	ICI signature genes B
ABI3	ICI signature genes A
ABI3BP	ICI signature genes A
AC002463.1	ICI signature genes B
AC003006.1	ICI signature genes B
AC004160.1	ICI signature genes B
AC004494.1	ICI signature genes B
AC004585.1	ICI signature genes A
AC004687.1	ICI signature genes A
AC004847.1	ICI signature genes A
AC004866.2	ICI signature genes B
AC004921.1	ICI signature genes B
AC004988.1	ICI signature genes B
AC005064.1	ICI signature genes B
AC005204.1	ICI signature genes B
AC005336.1	ICI signature genes B
AC005515.1	ICI signature genes B
AC005549.1	ICI signature genes B
AC005722.3	ICI signature genes B
AC005747.1	ICI signature genes A
AC006033.2	ICI signature genes B
AC006328.1	ICI signature genes B
AC006369.1	ICI signature genes B
AC006390.1	ICI signature genes B
AC007159.1	ICI signature genes B
AC007278.1	ICI signature genes B
AC007384.1	ICI signature genes B
AC007569.1	ICI signature genes B
AC007728.2	ICI signature genes B
AC007991.2	ICI signature genes B
AC008011.2	ICI signature genes B
AC008033.3	ICI signature genes B
AC008105.3	ICI signature genes A
AC008268.1	ICI signature genes B
AC008517.1	ICI signature genes B
AC008620.2	ICI signature genes B
AC008760.2	ICI signature genes B
AC008957.1	ICI signature genes B
AC009055.2	ICI signature genes B
AC009093.1	ICI signature genes B
AC009133.3	ICI signature genes B
AC010086.2	ICI signature genes B
AC010247.2	ICI signature genes B
AC010451.3	ICI signature genes B
AC010587.2	ICI signature genes B
AC010991.1	ICI signature genes B
AC011511.5	ICI signature genes B
AC011897.1	ICI signature genes B
AC011899.2	ICI signature genes B
AC012236.1	ICI signature genes A
AC012645.3	ICI signature genes B

AC015911.3	ICI signature genes B
AC015911.7	ICI signature genes A
AC015911.8	ICI signature genes B
AC018717.1	ICI signature genes B
AC018730.4	ICI signature genes B
AC018755.4	ICI signature genes A
AC018767.2	ICI signature genes B
AC019103.1	ICI signature genes B
AC019176.1	ICI signature genes B
AC020659.1	ICI signature genes B
AC021205.2	ICI signature genes B
AC022126.1	ICI signature genes B
AC022164.1	ICI signature genes B
AC022509.2	ICI signature genes B
AC023301.1	ICI signature genes B
AC023824.4	ICI signature genes B
AC024257.3	ICI signature genes B
AC024560.2	ICI signature genes B
AC026369.3	ICI signature genes A
AC026396.1	ICI signature genes B
AC027250.1	ICI signature genes B
AC027541.1	ICI signature genes B
AC034105.1	ICI signature genes A
AC034199.1	ICI signature genes B
AC034238.2	ICI signature genes B
AC037198.1	ICI signature genes B
AC041040.1	ICI signature genes B
AC055748.1	ICI signature genes B
AC064805.1	ICI signature genes B
AC066614.1	ICI signature genes B
AC068756.1	ICI signature genes B
AC069228.1	ICI signature genes B
AC073429.2	ICI signature genes B
AC074052.2	ICI signature genes B
AC079298.3	ICI signature genes B
AC079325.6	ICI signature genes B
AC087283.2	ICI signature genes B
AC087286.2	ICI signature genes B
AC090079.2	ICI signature genes B
AC090125.1	ICI signature genes B
AC090136.3	ICI signature genes B
AC090559.1	ICI signature genes B
AC091817.1	ICI signature genes B
AC091820.2	ICI signature genes B
AC091941.1	ICI signature genes B
AC092145.1	ICI signature genes B
AC092439.1	ICI signature genes B
AC092634.2	ICI signature genes B
AC092865.2	ICI signature genes B
AC093496.1	ICI signature genes B
AC093583.1	ICI signature genes B
AC093716.1	ICI signature genes B
AC093730.1	ICI signature genes B
AC096531.2	ICI signature genes B
AC096734.1	ICI signature genes B
AC097521.1	ICI signature genes B
AC099066.2	ICI signature genes B
AC099511.1	ICI signature genes B

AC099524.1	ICI signature genes B
AC103563.1	ICI signature genes A
AC103563.3	ICI signature genes A
AC105460.1	ICI signature genes B
AC105914.1	ICI signature genes B
AC106771.1	ICI signature genes B
AC106881.1	ICI signature genes B
AC106882.1	ICI signature genes B
AC106901.1	ICI signature genes B
AC108082.1	ICI signature genes B
AC108868.2	ICI signature genes B
AC110285.2	ICI signature genes B
AC110995.1	ICI signature genes B
AC111000.3	ICI signature genes B
AC111149.2	ICI signature genes B
AC112721.1	ICI signature genes B
AC112721.2	ICI signature genes B
AC113346.1	ICI signature genes B
AC114485.1	ICI signature genes B
AC114489.2	ICI signature genes B
AC114741.1	ICI signature genes B
AC114812.2	ICI signature genes B
AC117500.5	ICI signature genes B
AC117569.1	ICI signature genes B
AC118282.4	ICI signature genes B
AC119044.1	ICI signature genes B
AC121342.1	ICI signature genes B
AC124944.1	ICI signature genes B
AC126177.1	ICI signature genes B
AC127521.1	ICI signature genes B
AC131055.2	ICI signature genes B
AC133065.3	ICI signature genes A
AC133644.2	ICI signature genes B
AC134312.5	ICI signature genes B
AC134879.2	ICI signature genes A
AC135068.2	ICI signature genes A
AC135068.8	ICI signature genes A
AC136428.1	ICI signature genes A
AC139491.2	ICI signature genes B
AC139491.3	ICI signature genes B
AC142381.1	ICI signature genes A
AC145098.1	ICI signature genes A
AC147651.4	ICI signature genes A
AC233280.2	ICI signature genes B
AC233702.5	ICI signature genes B
AC237221.2	ICI signature genes B
AC239802.1	ICI signature genes B
AC242852.2	ICI signature genes B
AC243829.4	ICI signature genes B
AC243960.1	ICI signature genes A
AC243960.3	ICI signature genes B
AC244205.1	ICI signature genes B
AC244250.2	ICI signature genes A
AC244250.4	ICI signature genes A
AC245088.1	ICI signature genes B
AC245128.3	ICI signature genes B
AC245297.1	ICI signature genes A
AC245505.3	ICI signature genes B

AC246787.2	ICI signature genes B
AC246787.3	ICI signature genes A
AC246787.4	ICI signature genes A
ACKR1	ICI signature genes A
ACOD1	ICI signature genes B
ACOXL	ICI signature genes B
ACSL5	ICI signature genes A
ACSL6	ICI signature genes B
ACSM5	ICI signature genes B
ACTA2	ICI signature genes A
ACTA2-AS1	ICI signature genes B
ACTG1P22	ICI signature genes B
ACTG2	ICI signature genes A
ADA2	ICI signature genes A
ADAM12	ICI signature genes A
ADAM19	ICI signature genes A
ADAM8	ICI signature genes A
ADAMDEC1	ICI signature genes A
ADAMTS12	ICI signature genes A
ADAMTS16	ICI signature genes A
ADAMTS2	ICI signature genes A
ADAMTS4	ICI signature genes A
ADAMTS5	ICI signature genes B
ADAMTS7P4	ICI signature genes B
ADAMTS8	ICI signature genes B
ADAMTS9-AS1	ICI signature genes B
ADCY2	ICI signature genes B
ADCYAP1	ICI signature genes B
ADGRE1	ICI signature genes B
ADGRE2	ICI signature genes A
ADGRE3	ICI signature genes B
ADGRE4P	ICI signature genes B
ADGRG5	ICI signature genes A
ADH1B	ICI signature genes A
ADH7	ICI signature genes B
ADORA1	ICI signature genes B
ADRA1B	ICI signature genes B
ADRA2A	ICI signature genes A
AEBP1	ICI signature genes A
AF127936.1	ICI signature genes B
AF127936.5	ICI signature genes B
AF165138.7	ICI signature genes B
AGER	ICI signature genes A
AGTR1	ICI signature genes B
AICDA	ICI signature genes B
AIF1	ICI signature genes A
AIM2	ICI signature genes A
AK5	ICI signature genes B
AKAP2	ICI signature genes B
AKR1B10	ICI signature genes B
AKR1B10P1	ICI signature genes B
AKR1C1	ICI signature genes B
AKR1C2	ICI signature genes B
AKR1C3	ICI signature genes B
AKR1C4	ICI signature genes B
AL021395.1	ICI signature genes B
AL023653.1	ICI signature genes B
AL031595.1	ICI signature genes B

AL031713.1	ICI signature genes B
AL031767.1	ICI signature genes B
AL031846.1	ICI signature genes B
AL033397.1	ICI signature genes B
AL033397.2	ICI signature genes B
AL035425.4	ICI signature genes B
AL049649.1	ICI signature genes B
AL079307.2	ICI signature genes B
AL096816.1	ICI signature genes B
AL109918.1	ICI signature genes B
AL121985.1	ICI signature genes B
AL122127.2	ICI signature genes A
AL133325.3	ICI signature genes B
AL133371.2	ICI signature genes A
AL133410.1	ICI signature genes B
AL133467.1	ICI signature genes A
AL135929.1	ICI signature genes B
AL137186.1	ICI signature genes B
AL138745.1	ICI signature genes B
AL138826.1	ICI signature genes B
AL139125.1	ICI signature genes B
AL139147.1	ICI signature genes B
AL139246.3	ICI signature genes B
AL157871.2	ICI signature genes B
AL158071.3	ICI signature genes B
AL159987.2	ICI signature genes B
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AL162414.1	ICI signature genes B
AL353093.1	ICI signature genes B
AL355143.1	ICI signature genes B
AL356277.2	ICI signature genes B
AL356417.2	ICI signature genes B
AL356750.1	ICI signature genes B
AL357033.3	ICI signature genes B
AL359792.1	ICI signature genes B
AL365361.1	ICI signature genes A
AL390816.3	ICI signature genes B
AL391358.1	ICI signature genes B
AL391427.1	ICI signature genes B
AL391427.3	ICI signature genes B
AL442635.1	ICI signature genes B
AL512306.2	ICI signature genes B
AL589863.1	ICI signature genes B
AL589987.1	ICI signature genes B
AL590290.1	ICI signature genes B
AL590422.1	ICI signature genes B
AL590764.1	ICI signature genes B
AL592309.2	ICI signature genes B
AL606807.1	ICI signature genes B
AL691447.2	ICI signature genes B
AL845311.1	ICI signature genes B
AL928768.3	ICI signature genes A
ALDH3A1	ICI signature genes B
ALOX5	ICI signature genes A
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ALPP	ICI signature genes B
AMPD1	ICI signature genes B

AMTN	ICI signature genes B
ANGPTL1	ICI signature genes B
ANGPTL2	ICI signature genes A
ANK2	ICI signature genes B
ANKRD1	ICI signature genes A
ANKRD18B	ICI signature genes B
ANKRD36BP2	ICI signature genes A
ANKRD44-AS1	ICI signature genes A
ANKRD55	ICI signature genes B
ANO5	ICI signature genes B
ANTXRPL1	ICI signature genes B
ANXA6	ICI signature genes A
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AOC3	ICI signature genes A
AOX1	ICI signature genes A
AP000892.4	ICI signature genes B
AP001107.5	ICI signature genes B
AP001189.3	ICI signature genes B
AP001434.1	ICI signature genes B
AP001604.1	ICI signature genes B
AP001652.1	ICI signature genes B
AP003071.4	ICI signature genes B
AP003119.1	ICI signature genes B
AP004550.1	ICI signature genes B
AP005357.1	ICI signature genes B
AP005380.1	ICI signature genes B
APBB1IP	ICI signature genes A
APCDD1L	ICI signature genes B
APCDD1L-DT	ICI signature genes B
APELA	ICI signature genes B
APLNR	ICI signature genes A
APOA4	ICI signature genes B
APOC1	ICI signature genes A
APOC1P1	ICI signature genes B
APOC2	ICI signature genes B
APOE	ICI signature genes A
APOL3	ICI signature genes A
AQP4	ICI signature genes A
AQP9	ICI signature genes A
ARHGAP15	ICI signature genes A
ARHGAP31	ICI signature genes A
ARHGAP6	ICI signature genes B
ARHGAP9	ICI signature genes A
ARHGEF38	ICI signature genes B
ARHGEF6	ICI signature genes A
ARMH1	ICI signature genes B
ARRDC5	ICI signature genes B
ART4	ICI signature genes B
ARTN	ICI signature genes B
ASGR2	ICI signature genes B
ASPN	ICI signature genes A
ASXL3	ICI signature genes B
ATP10A	ICI signature genes A
ATP13A4-AS1	ICI signature genes B
ATP6V0D2	ICI signature genes A
ATP8A1	ICI signature genes A
ATP8B4	ICI signature genes B
AXL	ICI signature genes A

B3GAT1	ICI signature genes B
BAAT	ICI signature genes B
BATF	ICI signature genes A
BATF2	ICI signature genes A
BCL2A1	ICI signature genes A
BCL2L14	ICI signature genes B
BCORP1	ICI signature genes B
BFSP2	ICI signature genes B
BGN	ICI signature genes A
BHLHE22	ICI signature genes B
BHLHE41	ICI signature genes A
BICC1	ICI signature genes A
BIN2	ICI signature genes A
BIRC3	ICI signature genes A
BIRC7	ICI signature genes B
BLK	ICI signature genes A
BMP5	ICI signature genes B
BNC2	ICI signature genes B
BNIP3P6	ICI signature genes B
BRINP3	ICI signature genes B
BST1	ICI signature genes B
BTK	ICI signature genes A
BTLA	ICI signature genes B
BX088651.2	ICI signature genes B
C11orf21	ICI signature genes B
C11orf96	ICI signature genes A
C15orf48	ICI signature genes A
C16orf54	ICI signature genes A
C16orf89	ICI signature genes A
C19orf38	ICI signature genes A
C1orf162	ICI signature genes A
C1orf61	ICI signature genes B
C1QA	ICI signature genes A
C1QB	ICI signature genes A
C1QC	ICI signature genes A
C1QTNF1	ICI signature genes A
C1QTNF3	ICI signature genes A
C1QTNF7	ICI signature genes B
C1S	ICI signature genes A
C2	ICI signature genes A
C3	ICI signature genes A
C3AR1	ICI signature genes A
C3orf80	ICI signature genes B
C4B	ICI signature genes A
C4BPA	ICI signature genes A
C4BPB	ICI signature genes B
C5AR1	ICI signature genes A
C5AR2	ICI signature genes B
C5orf46	ICI signature genes B
C7	ICI signature genes A
C9orf139	ICI signature genes B
CA12	ICI signature genes B
CA4	ICI signature genes B
CACNA1B	ICI signature genes B
CADM3	ICI signature genes A
CALHM5	ICI signature genes B
CALHM6	ICI signature genes A
CAMK1G	ICI signature genes B

CAPN6	ICI signature genes A
CAPN8	ICI signature genes A
CARMIL2	ICI signature genes A
CASC19	ICI signature genes B
CASKIN1	ICI signature genes B
CASP14	ICI signature genes B
CASP5	ICI signature genes B
CASS4	ICI signature genes A
CATSPER1	ICI signature genes B
CBLN4	ICI signature genes B
CCAT1	ICI signature genes B
CCBE1	ICI signature genes B
CCDC141	ICI signature genes B
CCDC162P	ICI signature genes B
CCDC170	ICI signature genes A
CCDC69	ICI signature genes A
CCDC8	ICI signature genes B
CCDC80	ICI signature genes A
CCL11	ICI signature genes A
CCL13	ICI signature genes A
CCL14	ICI signature genes B
CCL18	ICI signature genes A
CCL19	ICI signature genes A
CCL2	ICI signature genes A
CCL21	ICI signature genes A
CCL22	ICI signature genes A
CCL23	ICI signature genes A
CCL25	ICI signature genes B
CCL3	ICI signature genes A
CCL3L3	ICI signature genes A
CCL4	ICI signature genes A
CCL4L2	ICI signature genes A
CCL5	ICI signature genes A
CCL7	ICI signature genes B
CCL8	ICI signature genes A
CCN1	ICI signature genes A
CCN2	ICI signature genes A
CCN4	ICI signature genes A
CCN5	ICI signature genes A
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CCR4	ICI signature genes A
CCR5	ICI signature genes A
CCR5AS	ICI signature genes B
CCR6	ICI signature genes B
CCR7	ICI signature genes A
CCR8	ICI signature genes B
CCRL2	ICI signature genes A
CD14	ICI signature genes A
CD163	ICI signature genes A
CD180	ICI signature genes A
CD19	ICI signature genes A
CD1B	ICI signature genes B
CD1C	ICI signature genes A
CD1E	ICI signature genes A
CD2	ICI signature genes A
CD209	ICI signature genes A
CD22	ICI signature genes A

CD226	ICI signature genes B
CD244	ICI signature genes B
CD247	ICI signature genes A
CD248	ICI signature genes A
CD27	ICI signature genes A
CD28	ICI signature genes A
CD300A	ICI signature genes A
CD300C	ICI signature genes A
CD300E	ICI signature genes A
CD300LB	ICI signature genes B
CD300LF	ICI signature genes A
CD300LG	ICI signature genes B
CD33	ICI signature genes B
CD37	ICI signature genes A
CD3D	ICI signature genes A
CD3E	ICI signature genes A
CD3G	ICI signature genes A
CD4	ICI signature genes A
CD40LG	ICI signature genes A
CD48	ICI signature genes A
CD5	ICI signature genes A
CD52	ICI signature genes A
CD53	ICI signature genes A
CD6	ICI signature genes A
CD69	ICI signature genes A
CD7	ICI signature genes A
CD70	ICI signature genes A
CD72	ICI signature genes A
CD74	ICI signature genes A
CD79A	ICI signature genes A
CD79B	ICI signature genes A
CD80	ICI signature genes B
CD84	ICI signature genes A
CD86	ICI signature genes A
CD8A	ICI signature genes A
CD8B	ICI signature genes A
CD93	ICI signature genes A
CD96	ICI signature genes A
CDH11	ICI signature genes A
CDH13	ICI signature genes B
CDH2	ICI signature genes B
CDH8	ICI signature genes B
CDK15	ICI signature genes B
CDO1	ICI signature genes B
CEACAM21	ICI signature genes A
CEACAM4	ICI signature genes B
CEL	ICI signature genes B
CELF2	ICI signature genes A
CES1P2	ICI signature genes B
CFAP221	ICI signature genes B
CFP	ICI signature genes A
CHEK2P5	ICI signature genes B
CHGA	ICI signature genes B
CHI3L1	ICI signature genes A
CHI3L2	ICI signature genes A
CHIA	ICI signature genes B
CHIAP2	ICI signature genes B
CHIT1	ICI signature genes A

CHP2	ICI signature genes B
CHRD1	ICI signature genes A
CHRD2	ICI signature genes A
CHRM3-AS2	ICI signature genes B
CHRNA1	ICI signature genes B
CHRNA6	ICI signature genes B
CHST11	ICI signature genes A
CIITA	ICI signature genes A
CILP	ICI signature genes A
CILP2	ICI signature genes A
CKMT1A	ICI signature genes B
CKMT1B	ICI signature genes B
CLC	ICI signature genes B
CLDN18	ICI signature genes A
CLEC10A	ICI signature genes A
CLEC12A	ICI signature genes A
CLEC12B	ICI signature genes B
CLEC17A	ICI signature genes A
CLEC1A	ICI signature genes A
CLEC4A	ICI signature genes A
CLEC4C	ICI signature genes B
CLEC4D	ICI signature genes B
CLEC4E	ICI signature genes A
CLEC4G	ICI signature genes B
CLEC5A	ICI signature genes A
CLEC6A	ICI signature genes B
CLEC7A	ICI signature genes A
CLEC9A	ICI signature genes B
CLECL1	ICI signature genes B
CLIC5	ICI signature genes A
CLMP	ICI signature genes A
CLNK	ICI signature genes B
CLSTN2	ICI signature genes B
CMKLR1	ICI signature genes A
CNN1	ICI signature genes A
CNN2P11	ICI signature genes B
CNNM1	ICI signature genes B
CNR2	ICI signature genes B
CNRIP1	ICI signature genes A
CNTN3	ICI signature genes B
CNTN6	ICI signature genes B
COL10A1	ICI signature genes A
COL11A1	ICI signature genes A
COL12A1	ICI signature genes A
COL14A1	ICI signature genes A
COL15A1	ICI signature genes A
COL16A1	ICI signature genes A
COL17A1	ICI signature genes B
COL1A1	ICI signature genes A
COL1A2	ICI signature genes A
COL22A1	ICI signature genes B
COL2A1	ICI signature genes B
COL3A1	ICI signature genes A
COL4A3	ICI signature genes A
COL4A4	ICI signature genes A
COL5A1	ICI signature genes A
COL5A2	ICI signature genes A
COL5A3	ICI signature genes A

COL6A1	ICI signature genes A
COL6A2	ICI signature genes A
COL6A3	ICI signature genes A
COL6A5	ICI signature genes B
COL6A6	ICI signature genes A
COL8A1	ICI signature genes A
COL8A2	ICI signature genes A
COLEC12	ICI signature genes A
COMP	ICI signature genes A
COPDA1	ICI signature genes A
CORIN	ICI signature genes B
CORO1A	ICI signature genes A
CPA3	ICI signature genes A
CPA4	ICI signature genes B
CPED1	ICI signature genes B
CPLX2	ICI signature genes B
CPM	ICI signature genes A
CPNE5	ICI signature genes A
CPXM1	ICI signature genes A
CPZ	ICI signature genes B
CR1	ICI signature genes B
CR1L	ICI signature genes B
CR2	ICI signature genes A
CR381572.1	ICI signature genes B
CRB2	ICI signature genes B
CREB3L1	ICI signature genes A
CRHR2	ICI signature genes B
CRIP1	ICI signature genes A
CRISPLD2	ICI signature genes A
CRTAM	ICI signature genes A
CRYBB1	ICI signature genes B
CSDC2	ICI signature genes B
CSF1R	ICI signature genes A
CSF2	ICI signature genes B
CSF2RA	ICI signature genes A
CSF2RB	ICI signature genes A
CSF3R	ICI signature genes A
CSMD2	ICI signature genes B
CSPG4	ICI signature genes B
CST1	ICI signature genes A
CST7	ICI signature genes A
CTC-251116.1	ICI signature genes A
CTCFL	ICI signature genes B
CTHRC1	ICI signature genes A
CTLA4	ICI signature genes A
CTSE	ICI signature genes A
CTSK	ICI signature genes A
CTSS	ICI signature genes A
CTSW	ICI signature genes A
CX3CR1	ICI signature genes B
CXCL10	ICI signature genes A
CXCL11	ICI signature genes A
CXCL12	ICI signature genes A
CXCL13	ICI signature genes A
CXCL5	ICI signature genes A
CXCL9	ICI signature genes A
CXCR1	ICI signature genes B
CXCR2P1	ICI signature genes A

CXCR3	ICI signature genes A
CXCR4	ICI signature genes A
CXCR5	ICI signature genes B
CXCR6	ICI signature genes A
CXorf21	ICI signature genes A
CXorf65	ICI signature genes B
CYBB	ICI signature genes A
CYP1B1	ICI signature genes A
CYP27A1	ICI signature genes A
CYP2B7P	ICI signature genes A
CYP4B1	ICI signature genes A
CYP4F11	ICI signature genes B
CYP4F26P	ICI signature genes B
CYP4F29P	ICI signature genes B
CYP4F3	ICI signature genes B
CYP4F35P	ICI signature genes B
CYS1	ICI signature genes B
CYSLTR1	ICI signature genes A
CYTH4	ICI signature genes A
CYTIP	ICI signature genes A
CYTL1	ICI signature genes A
DAAM2	ICI signature genes A
DAB2	ICI signature genes A
DACT1	ICI signature genes A
DACT3	ICI signature genes B
DBH	ICI signature genes B
DBH-AS1	ICI signature genes A
DCN	ICI signature genes A
DCSTAMP	ICI signature genes B
DDO	ICI signature genes B
DDR2	ICI signature genes A
DEFA11P	ICI signature genes B
DEFA7P	ICI signature genes B
DEPP1	ICI signature genes A
DERL3	ICI signature genes A
DES	ICI signature genes A
DIO2	ICI signature genes B
DIO3	ICI signature genes B
DIPK1C	ICI signature genes B
DKK2	ICI signature genes B
DLC1	ICI signature genes A
DLG2	ICI signature genes B
DLX1	ICI signature genes B
DLX2	ICI signature genes B
DLX6-AS1	ICI signature genes B
DMBT1	ICI signature genes A
DMRT2	ICI signature genes B
DMRT3	ICI signature genes B
DMRTA2	ICI signature genes B
DNAH8	ICI signature genes B
DNAJB3	ICI signature genes B
DNAJC5B	ICI signature genes B
DNASE2B	ICI signature genes B
DNM3OS	ICI signature genes B
DOCK10	ICI signature genes A
DOCK11	ICI signature genes A
DOCK2	ICI signature genes A
DOCK8	ICI signature genes A

DOK2	ICI signature genes A
DOK3	ICI signature genes A
DOK5	ICI signature genes B
DPEP1	ICI signature genes A
DPEP2	ICI signature genes A
DPP4	ICI signature genes A
DPT	ICI signature genes A
DTHD1	ICI signature genes B
DTNB-AS1	ICI signature genes A
EBI3	ICI signature genes A
ECM2	ICI signature genes A
EDNRA	ICI signature genes A
ELN	ICI signature genes A
EMB	ICI signature genes A
EMILIN1	ICI signature genes A
EMILIN3	ICI signature genes B
EML4-AS1	ICI signature genes B
EMX2	ICI signature genes B
EMX2OS	ICI signature genes B
ENPP2	ICI signature genes A
ENPP6	ICI signature genes B
EOMES	ICI signature genes A
EPHA10	ICI signature genes B
EPSTI1	ICI signature genes A
EPYC	ICI signature genes B
EREG	ICI signature genes B
ERVMER61-1	ICI signature genes B
ESR1	ICI signature genes B
ETS1	ICI signature genes A
EVA1A	ICI signature genes A
EVI2A	ICI signature genes A
EVI2B	ICI signature genes A
EVPLL	ICI signature genes B
EXOC3L4	ICI signature genes A
F13A1	ICI signature genes A
F5	ICI signature genes A
FABP3P2	ICI signature genes B
FABP4	ICI signature genes B
FADS6	ICI signature genes B
FAM107A	ICI signature genes A
FAM155A	ICI signature genes B
FAM180A	ICI signature genes B
FAM198B-AS1	ICI signature genes B
FAM20A	ICI signature genes A
FAM216B	ICI signature genes A
FAM30A	ICI signature genes A
FAM3B	ICI signature genes B
FAM78A	ICI signature genes A
FAM92B	ICI signature genes A
FAP	ICI signature genes A
FAR2P1	ICI signature genes B
FASLG	ICI signature genes A
FAT2	ICI signature genes B
FAT4	ICI signature genes B
FBLN2	ICI signature genes A
FBLN5	ICI signature genes A
FBN1	ICI signature genes A
FBP1	ICI signature genes A

FCAR	ICI signature genes B
FCER1A	ICI signature genes A
FCER1G	ICI signature genes A
FCER2	ICI signature genes A
FCGR1A	ICI signature genes A
FCGR1B	ICI signature genes B
FCGR1CP	ICI signature genes B
FCGR2A	ICI signature genes A
FCGR2B	ICI signature genes A
FCGR2C	ICI signature genes A
FCGR3A	ICI signature genes A
FCGR3B	ICI signature genes A
FCMR	ICI signature genes A
FCN1	ICI signature genes A
FCRL1	ICI signature genes A
FCRL2	ICI signature genes A
FCRL3	ICI signature genes A
FCRL4	ICI signature genes B
FCRL5	ICI signature genes A
FCRL6	ICI signature genes B
FCRLA	ICI signature genes A
FDCSP	ICI signature genes A
FERMT3	ICI signature genes A
FEZF1	ICI signature genes B
FFAR4	ICI signature genes B
FGA	ICI signature genes A
FGD2	ICI signature genes A
FGD5	ICI signature genes A
FGF10	ICI signature genes B
FGF5	ICI signature genes B
FGF7	ICI signature genes A
FGG	ICI signature genes A
FGL2	ICI signature genes A
FGR	ICI signature genes A
FHL5	ICI signature genes B
FIBCD1	ICI signature genes B
FIBIN	ICI signature genes A
FILIP1L	ICI signature genes A
FLI1	ICI signature genes A
FLT3	ICI signature genes B
FMOD	ICI signature genes A
FN1	ICI signature genes A
FNDC1	ICI signature genes A
FOLR1	ICI signature genes A
FOLR2	ICI signature genes A
FOXC2	ICI signature genes B
FOXH1	ICI signature genes B
FOXL2	ICI signature genes B
FOXP3	ICI signature genes A
FPR1	ICI signature genes A
FPR2	ICI signature genes B
FPR3	ICI signature genes A
FREM2	ICI signature genes B
FTH1P14	ICI signature genes B
FTH1P22	ICI signature genes A
FUT7	ICI signature genes B
FXD2	ICI signature genes B
FYB1	ICI signature genes A

G0S2	ICI signature genes A
GAB3	ICI signature genes A
GACAT1	ICI signature genes B
GALNT15	ICI signature genes B
GALNT17	ICI signature genes B
GAPT	ICI signature genes A
GAS1	ICI signature genes A
GASK1B	ICI signature genes A
GBP1	ICI signature genes A
GBP4	ICI signature genes A
GBP5	ICI signature genes A
GCSAML	ICI signature genes B
GDF10	ICI signature genes B
GDNF	ICI signature genes B
GEM	ICI signature genes A
GFPT2	ICI signature genes A
GFRA1	ICI signature genes B
GGTA1P	ICI signature genes A
GGTLC1	ICI signature genes A
GIMAP1	ICI signature genes A
GIMAP2	ICI signature genes A
GIMAP4	ICI signature genes A
GIMAP5	ICI signature genes B
GIMAP6	ICI signature genes A
GIMAP7	ICI signature genes A
GIMAP8	ICI signature genes A
GJA5	ICI signature genes A
GJB2	ICI signature genes B
GJB6	ICI signature genes B
GKN2	ICI signature genes A
GLIS1	ICI signature genes B
GLT8D2	ICI signature genes A
GMFG	ICI signature genes A
GNG2	ICI signature genes A
GNGT2	ICI signature genes A
GNLY	ICI signature genes A
GOLGA6L7	ICI signature genes B
GOLGA8EP	ICI signature genes B
GOLT1A	ICI signature genes B
GP5	ICI signature genes B
GPA33	ICI signature genes B
GPC6	ICI signature genes A
GPIHBP1	ICI signature genes A
GPM6A	ICI signature genes B
GPR1	ICI signature genes B
GPR132	ICI signature genes A
GPR141	ICI signature genes B
GPR15	ICI signature genes A
GPR171	ICI signature genes A
GPR174	ICI signature genes A
GPR18	ICI signature genes A
GPR183	ICI signature genes A
GPR25	ICI signature genes B
GPR34	ICI signature genes A
GPR55	ICI signature genes B
GPR65	ICI signature genes A
GPR68	ICI signature genes A
GPR82	ICI signature genes B

GPR84	ICI signature genes A
GPR88	ICI signature genes B
GPRIN3	ICI signature genes A
GPSM3	ICI signature genes A
GPX2	ICI signature genes B
GRAP	ICI signature genes B
GRAP2	ICI signature genes B
GREM1	ICI signature genes A
GRIA3	ICI signature genes B
GRP	ICI signature genes B
GSTA1	ICI signature genes B
GSTA8P	ICI signature genes B
GSTA9P	ICI signature genes B
GUCA1A	ICI signature genes B
GVINP1	ICI signature genes A
GXYLT2	ICI signature genes A
GYPC	ICI signature genes A
GZMA	ICI signature genes A
GZMB	ICI signature genes A
GZMH	ICI signature genes A
GZMK	ICI signature genes A
GZMM	ICI signature genes A
H2AB2	ICI signature genes B
HAMP	ICI signature genes B
HAP1	ICI signature genes B
HAPLN1	ICI signature genes B
HAS1	ICI signature genes B
HAS2	ICI signature genes A
HAVCR2	ICI signature genes A
HCFC2P1	ICI signature genes B
HCST	ICI signature genes A
HEATR9	ICI signature genes B
HECW2-AS1	ICI signature genes B
HEPH	ICI signature genes A
HEPHL1	ICI signature genes B
HGF	ICI signature genes B
HHIP	ICI signature genes B
HK3	ICI signature genes A
HLA-DMA	ICI signature genes A
HLA-DMB	ICI signature genes A
HLA-DOA	ICI signature genes A
HLA-DOB	ICI signature genes A
HLA-DPA1	ICI signature genes A
HLA-DPA3	ICI signature genes B
HLA-DPB1	ICI signature genes A
HLA-DPB2	ICI signature genes A
HLA-DQA1	ICI signature genes A
HLA-DQA2	ICI signature genes A
HLA-DQB1	ICI signature genes A
HLA-DQB1-AS1	ICI signature genes A
HLA-DQB2	ICI signature genes A
HLA-DRA	ICI signature genes A
HLA-DRB1	ICI signature genes A
HLA-DRB5	ICI signature genes A
HLA-DRB6	ICI signature genes A
HMCN1	ICI signature genes A
HMGA1P7	ICI signature genes B
HNF1B	ICI signature genes B

HNMT	ICI signature genes A
HNRNPA1P21	ICI signature genes A
HP	ICI signature genes A
HPGDS	ICI signature genes A
HRH2	ICI signature genes B
HS3ST2	ICI signature genes A
HSD11B1	ICI signature genes A
HSH2D	ICI signature genes A
HSPB3	ICI signature genes B
HSPB7	ICI signature genes B
HTR1B	ICI signature genes B
HTR2A	ICI signature genes B
HTRA3	ICI signature genes A
HTRA4	ICI signature genes A
ICAM1	ICI signature genes A
ICAM2	ICI signature genes A
ICAM3	ICI signature genes A
ICOS	ICI signature genes A
IDO1	ICI signature genes A
IDO2	ICI signature genes B
IFI44L	ICI signature genes A
IFNA12P	ICI signature genes B
IFNG	ICI signature genes A
IFNG-AS1	ICI signature genes B
IFNWP5	ICI signature genes B
IGF1	ICI signature genes B
IGF2	ICI signature genes B
IGFL2	ICI signature genes A
IGFL2-AS1	ICI signature genes B
IGFL3	ICI signature genes B
IGHA1	ICI signature genes A
IGHA2	ICI signature genes A
IGHD	ICI signature genes A
IGHE	ICI signature genes A
IGHG1	ICI signature genes A
IGHG2	ICI signature genes A
IGHG3	ICI signature genes A
IGHG4	ICI signature genes A
IGHGP	ICI signature genes A
IGHJ1	ICI signature genes A
IGHJ2	ICI signature genes A
IGHJ3	ICI signature genes A
IGHJ3P	ICI signature genes A
IGHM	ICI signature genes A
IGHV1-12	ICI signature genes A
IGHV1-14	ICI signature genes A
IGHV1-17	ICI signature genes A
IGHV1-18	ICI signature genes A
IGHV1-2	ICI signature genes A
IGHV1-24	ICI signature genes A
IGHV1-3	ICI signature genes A
IGHV1-45	ICI signature genes A
IGHV1-46	ICI signature genes A
IGHV1-58	ICI signature genes A
IGHV1-67	ICI signature genes A
IGHV1-69	ICI signature genes A
IGHV1-69D	ICI signature genes A
IGHV1OR15-2	ICI signature genes A

IGHV1OR15-9	ICI signature genes A
IGHV1OR16-1	ICI signature genes A
IGHV1OR16-3	ICI signature genes A
IGHV1OR21-1	ICI signature genes A
IGHV2-26	ICI signature genes A
IGHV2-5	ICI signature genes A
IGHV2-70	ICI signature genes A
IGHV2-70D	ICI signature genes A
IGHV3-11	ICI signature genes A
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IGHV3-15	ICI signature genes A
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IGHV3-22	ICI signature genes A
IGHV3-23	ICI signature genes A
IGHV3-30	ICI signature genes A
IGHV3-33	ICI signature genes A
IGHV3-35	ICI signature genes A
IGHV3-38	ICI signature genes A
IGHV3-41	ICI signature genes A
IGHV3-43	ICI signature genes A
IGHV3-47	ICI signature genes A
IGHV3-48	ICI signature genes A
IGHV3-49	ICI signature genes A
IGHV3-52	ICI signature genes A
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IGHV3-63	ICI signature genes A
IGHV3-64	ICI signature genes A
IGHV3-66	ICI signature genes A
IGHV3-7	ICI signature genes A
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IGHV3-73	ICI signature genes A
IGHV3-74	ICI signature genes A
IGHV3-75	ICI signature genes A
IGHV3-76	ICI signature genes A
IGHV3OR15-7	ICI signature genes A
IGHV3OR16-10	ICI signature genes A
IGHV3OR16-11	ICI signature genes A
IGHV3OR16-12	ICI signature genes A
IGHV3OR16-13	ICI signature genes A
IGHV3OR16-6	ICI signature genes A
IGHV3OR16-8	ICI signature genes A
IGHV3OR16-9	ICI signature genes A
IGHV4-28	ICI signature genes A
IGHV4-31	ICI signature genes A
IGHV4-34	ICI signature genes A
IGHV4-39	ICI signature genes A
IGHV4-4	ICI signature genes A
IGHV4-55	ICI signature genes A
IGHV4-59	ICI signature genes A
IGHV4-61	ICI signature genes A
IGHV4OR15-8	ICI signature genes A
IGHV5-51	ICI signature genes A
IGHV5-78	ICI signature genes A

IGHV6-1	ICI signature genes A
IGHV7-56	ICI signature genes A
IGHV7-81	ICI signature genes A
IGKC	ICI signature genes A
IGKJ5	ICI signature genes A
IGKV1-12	ICI signature genes A
IGKV1-13	ICI signature genes A
IGKV1-16	ICI signature genes A
IGKV1-17	ICI signature genes A
IGKV1-27	ICI signature genes A
IGKV1-33	ICI signature genes A
IGKV1-39	ICI signature genes A
IGKV1-5	ICI signature genes A
IGKV1-6	ICI signature genes A
IGKV1-8	ICI signature genes A
IGKV1-9	ICI signature genes A
IGKV1D-12	ICI signature genes A
IGKV1D-13	ICI signature genes A
IGKV1D-16	ICI signature genes A
IGKV1D-17	ICI signature genes A
IGKV1D-27	ICI signature genes A
IGKV1D-33	ICI signature genes A
IGKV1D-39	ICI signature genes A
IGKV1D-42	ICI signature genes A
IGKV1D-43	ICI signature genes A
IGKV1D-8	ICI signature genes A
IGKV1OR10-1	ICI signature genes A
IGKV1OR2-108	ICI signature genes A
IGKV1OR2-11	ICI signature genes A
IGKV1OR2-3	ICI signature genes A
IGKV1OR2-6	ICI signature genes A
IGKV1OR22-1	ICI signature genes A
IGKV1OR22-5	ICI signature genes A
IGKV2-24	ICI signature genes A
IGKV2-28	ICI signature genes A
IGKV2-29	ICI signature genes A
IGKV2-30	ICI signature genes A
IGKV2D-24	ICI signature genes A
IGKV2D-28	ICI signature genes A
IGKV2D-29	ICI signature genes A
IGKV2D-30	ICI signature genes A
IGKV2D-40	ICI signature genes A
IGKV2OR22-3	ICI signature genes A
IGKV2OR22-4	ICI signature genes A
IGKV3-11	ICI signature genes A
IGKV3-15	ICI signature genes A
IGKV3-20	ICI signature genes A
IGKV3-7	ICI signature genes A
IGKV3D-11	ICI signature genes A
IGKV3D-15	ICI signature genes A
IGKV3D-20	ICI signature genes A
IGKV3D-7	ICI signature genes A
IGKV3OR2-268	ICI signature genes A
IGKV3OR2-5	ICI signature genes A
IGKV4-1	ICI signature genes A
IGKV5-2	ICI signature genes A
IGKV6-21	ICI signature genes A
IGKV6D-21	ICI signature genes A

IGKV7-3	ICI signature genes A
IGLC2	ICI signature genes A
IGLC3	ICI signature genes A
IGLC6	ICI signature genes A
IGLC7	ICI signature genes A
IGLJ2	ICI signature genes A
IGLJCOR18	ICI signature genes A
IGLL1	ICI signature genes A
IGLL3P	ICI signature genes A
IGLL5	ICI signature genes A
IGLON5	ICI signature genes B
IGLV1-36	ICI signature genes A
IGLV1-40	ICI signature genes A
IGLV1-41	ICI signature genes A
IGLV1-44	ICI signature genes A
IGLV1-47	ICI signature genes A
IGLV1-50	ICI signature genes A
IGLV1-51	ICI signature genes A
IGLV10-54	ICI signature genes A
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IGLV2-14	ICI signature genes A
IGLV2-18	ICI signature genes A
IGLV2-23	ICI signature genes A
IGLV2-28	ICI signature genes A
IGLV2-33	ICI signature genes A
IGLV2-34	ICI signature genes A
IGLV2-5	ICI signature genes A
IGLV2-8	ICI signature genes A
IGLV3-1	ICI signature genes A
IGLV3-10	ICI signature genes A
IGLV3-12	ICI signature genes A
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IGLV3-19	ICI signature genes A
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IGLV4-69	ICI signature genes A
IGLV5-37	ICI signature genes A
IGLV5-45	ICI signature genes A
IGLV5-48	ICI signature genes A
IGLV6-57	ICI signature genes A
IGLV7-43	ICI signature genes A
IGLV7-46	ICI signature genes A
IGLV8-61	ICI signature genes A
IGLV8OR8-1	ICI signature genes B
IGLV9-49	ICI signature genes A
IGLVI-70	ICI signature genes A
IGSF21	ICI signature genes B
IGSF6	ICI signature genes A
IKZF1	ICI signature genes A
IKZF3	ICI signature genes A
IL10	ICI signature genes B
IL10RA	ICI signature genes A
IL11	ICI signature genes B
IL12B	ICI signature genes B

IL12RB1	ICI signature genes A
IL13	ICI signature genes B
IL13RA2	ICI signature genes A
IL16	ICI signature genes A
IL17A	ICI signature genes B
IL17REL	ICI signature genes A
IL18RAP	ICI signature genes B
IL1A	ICI signature genes B
IL1RL1	ICI signature genes A
IL21	ICI signature genes B
IL21-AS1	ICI signature genes B
IL21R	ICI signature genes A
IL22RA2	ICI signature genes B
IL27	ICI signature genes B
IL2RA	ICI signature genes A
IL2RB	ICI signature genes A
IL2RG	ICI signature genes A
IL32	ICI signature genes A
IL36B	ICI signature genes B
IL36G	ICI signature genes B
IL36RN	ICI signature genes B
IL4I1	ICI signature genes A
IL5RA	ICI signature genes B
IL7R	ICI signature genes A
IL9R	ICI signature genes B
INHBA	ICI signature genes A
INHBA-AS1	ICI signature genes B
INMT	ICI signature genes A
INPP5D	ICI signature genes A
INSYN2B	ICI signature genes B
IQGAP2	ICI signature genes A
IQSEC3	ICI signature genes B
IRAK3	ICI signature genes A
IRF4	ICI signature genes A
IRF8	ICI signature genes A
IRS4	ICI signature genes B
ISLR	ICI signature genes A
ISM1	ICI signature genes A
ISM2	ICI signature genes B
ITGA11	ICI signature genes A
ITGA8	ICI signature genes A
ITGAD	ICI signature genes B
ITGAL	ICI signature genes A
ITGAM	ICI signature genes A
ITGAX	ICI signature genes A
ITGB2	ICI signature genes A
ITGB2-AS1	ICI signature genes A
ITGB3	ICI signature genes B
ITGB7	ICI signature genes A
ITGBL1	ICI signature genes A
ITIH3	ICI signature genes B
ITIH5	ICI signature genes A
ITK	ICI signature genes A
ITLN1	ICI signature genes B
ITM2A	ICI signature genes A
JAK3	ICI signature genes A
JAKMIP1	ICI signature genes B
JAML	ICI signature genes A

JCHAIN	ICI signature genes A
JPH2	ICI signature genes B
JSRP1	ICI signature genes A
KANK4	ICI signature genes B
KBTBD12	ICI signature genes B
KCNA1	ICI signature genes B
KCNA2	ICI signature genes B
KCNA3	ICI signature genes A
KCNA4	ICI signature genes B
KCNA5	ICI signature genes B
KCND2	ICI signature genes B
KCNE4	ICI signature genes A
KCNIP1	ICI signature genes B
KCNJ10	ICI signature genes B
KCNJ5	ICI signature genes A
KCNMB1	ICI signature genes B
KCNN3	ICI signature genes B
KCNT2	ICI signature genes B
KEL	ICI signature genes A
KERA	ICI signature genes B
KHDRBS2	ICI signature genes B
KIAA1549L	ICI signature genes B
KIAA1755	ICI signature genes B
KIF26B	ICI signature genes A
KIR2DL4	ICI signature genes B
KIR2DS4	ICI signature genes B
KIR3DL3	ICI signature genes B
KIR3DX1	ICI signature genes B
KLHDC7B	ICI signature genes A
KLHL6	ICI signature genes A
KLK8	ICI signature genes B
KLRB1	ICI signature genes A
KLRC1	ICI signature genes B
KLRC2	ICI signature genes B
KLRC4	ICI signature genes B
KLRC4-KLRK1	ICI signature genes B
KLRD1	ICI signature genes B
KLRG1	ICI signature genes B
KLRK1	ICI signature genes B
KMO	ICI signature genes B
KRT14	ICI signature genes B
KRT16P4	ICI signature genes B
KRT16P6	ICI signature genes B
KRT17	ICI signature genes B
KRT23	ICI signature genes B
KRT5	ICI signature genes B
KRT7	ICI signature genes A
KRT7-AS	ICI signature genes B
KRT75	ICI signature genes B
KRTAP19-8	ICI signature genes B
L1TD1	ICI signature genes B
L3MBTL4-AS1	ICI signature genes B
LAG3	ICI signature genes A
LAIR1	ICI signature genes A
LAIR2	ICI signature genes B
LAMA1	ICI signature genes B
LAMA2	ICI signature genes A
LAMA4	ICI signature genes A

LAMC2	ICI signature genes B
LAMP5	ICI signature genes A
LAPTM5	ICI signature genes A
LAT2	ICI signature genes A
LAX1	ICI signature genes A
LCK	ICI signature genes A
LCP1	ICI signature genes A
LCP2	ICI signature genes A
LGALS1	ICI signature genes A
LGALS2	ICI signature genes A
LGI2	ICI signature genes A
LGR5	ICI signature genes B
LHX8	ICI signature genes B
LILRA1	ICI signature genes B
LILRA2	ICI signature genes B
LILRA4	ICI signature genes B
LILRA5	ICI signature genes A
LILRA6	ICI signature genes A
LILRB1	ICI signature genes A
LILRB2	ICI signature genes A
LILRB3	ICI signature genes A
LILRB4	ICI signature genes A
LILRB5	ICI signature genes B
LILRP2	ICI signature genes B
LINC00051	ICI signature genes B
LINC00158	ICI signature genes B
LINC00221	ICI signature genes B
LINC002481	ICI signature genes B
LINC00299	ICI signature genes B
LINC00402	ICI signature genes B
LINC00426	ICI signature genes B
LINC00460	ICI signature genes B
LINC00525	ICI signature genes B
LINC00551	ICI signature genes B
LINC00582	ICI signature genes A
LINC00607	ICI signature genes B
LINC00626	ICI signature genes B
LINC00702	ICI signature genes B
LINC00861	ICI signature genes B
LINC00871	ICI signature genes B
LINC00877	ICI signature genes B
LINC00892	ICI signature genes B
LINC00898	ICI signature genes B
LINC00922	ICI signature genes B
LINC00937	ICI signature genes B
LINC00939	ICI signature genes B
LINC00944	ICI signature genes B
LINC00968	ICI signature genes B
LINC00996	ICI signature genes B
LINC01038	ICI signature genes B
LINC01094	ICI signature genes A
LINC01133	ICI signature genes B
LINC01146	ICI signature genes B
LINC01150	ICI signature genes B
LINC01194	ICI signature genes B
LINC01205	ICI signature genes B
LINC01215	ICI signature genes A
LINC01228	ICI signature genes B

LINC01231	ICI signature genes B
LINC01234	ICI signature genes B
LINC01235	ICI signature genes B
LINC01241	ICI signature genes B
LINC01281	ICI signature genes B
LINC01326	ICI signature genes B
LINC01358	ICI signature genes B
LINC01446	ICI signature genes B
LINC01480	ICI signature genes A
LINC01561	ICI signature genes B
LINC01564	ICI signature genes B
LINC01605	ICI signature genes B
LINC01614	ICI signature genes A
LINC01615	ICI signature genes B
LINC01628	ICI signature genes B
LINC01638	ICI signature genes B
LINC01665	ICI signature genes B
LINC01684	ICI signature genes B
LINC01697	ICI signature genes B
LINC01705	ICI signature genes B
LINC01711	ICI signature genes B
LINC01776	ICI signature genes B
LINC01781	ICI signature genes A
LINC01853	ICI signature genes B
LINC01857	ICI signature genes A
LINC01871	ICI signature genes A
LINC01886	ICI signature genes B
LINC01914	ICI signature genes B
LINC01915	ICI signature genes B
LINC01925	ICI signature genes B
LINC01929	ICI signature genes B
LINC01934	ICI signature genes B
LINC01936	ICI signature genes B
LINC01937	ICI signature genes B
LINC01943	ICI signature genes B
LINC01996	ICI signature genes B
LINC01997	ICI signature genes B
LINC02016	ICI signature genes B
LINC02057	ICI signature genes B
LINC02063	ICI signature genes B
LINC02084	ICI signature genes B
LINC02099	ICI signature genes B
LINC02114	ICI signature genes B
LINC02126	ICI signature genes B
LINC02195	ICI signature genes A
LINC02257	ICI signature genes B
LINC02273	ICI signature genes B
LINC02285	ICI signature genes B
LINC02303	ICI signature genes B
LINC02327	ICI signature genes B
LINC02345	ICI signature genes B
LINC02362	ICI signature genes A
LINC02384	ICI signature genes A
LINC02397	ICI signature genes B
LINC02408	ICI signature genes B
LINC02422	ICI signature genes B
LINC02423	ICI signature genes B
LINC02446	ICI signature genes A

LINC02500	ICI signature genes B
LINC02525	ICI signature genes B
LINC02528	ICI signature genes B
LINC02544	ICI signature genes B
LINC02576	ICI signature genes A
LINC02588	ICI signature genes B
LINC02611	ICI signature genes B
LINC02619	ICI signature genes B
LINC02694	ICI signature genes B
LINC02699	ICI signature genes B
LINC02778	ICI signature genes B
LIPC	ICI signature genes B
LMO3	ICI signature genes A
LMOD1	ICI signature genes A
LNCOG	ICI signature genes B
LOXL2	ICI signature genes A
LPAR4	ICI signature genes B
LPL	ICI signature genes A
LPXN	ICI signature genes A
LRRC15	ICI signature genes A
LRRC17	ICI signature genes A
LRRC2	ICI signature genes B
LRRC25	ICI signature genes A
LRRC32	ICI signature genes A
LRRC4C	ICI signature genes B
LRRC55	ICI signature genes B
LRRK2	ICI signature genes A
LRRK2-DT	ICI signature genes A
LRRN4	ICI signature genes A
LSAMP	ICI signature genes A
LSP1	ICI signature genes A
LST1	ICI signature genes A
LTA	ICI signature genes A
LTB	ICI signature genes A
LTF	ICI signature genes A
LUM	ICI signature genes A
LY6H	ICI signature genes B
LY86	ICI signature genes A
LY9	ICI signature genes A
LY96	ICI signature genes A
LYVE1	ICI signature genes A
LYZ	ICI signature genes A
M1AP	ICI signature genes B
MAGEA6	ICI signature genes B
MAGEL2	ICI signature genes B
MAGI2-AS3	ICI signature genes B
MAL	ICI signature genes A
MAMDC2	ICI signature genes A
MAN1A1	ICI signature genes A
MAP1LC3C	ICI signature genes B
MAP4K1	ICI signature genes A
MARCO	ICI signature genes A
MATN3	ICI signature genes A
MCCC1-AS1	ICI signature genes B
MCEMP1	ICI signature genes A
MCHR1	ICI signature genes B
MEDAG	ICI signature genes A
MEF2C	ICI signature genes A

MEF2C-AS1	ICI signature genes B
MEFV	ICI signature genes B
MEI1	ICI signature genes A
MEOX2	ICI signature genes A
MFAP4	ICI signature genes A
MFAP5	ICI signature genes B
MGP	ICI signature genes A
MICAL2	ICI signature genes A
MILR1	ICI signature genes A
MIR100HG	ICI signature genes B
MIR155HG	ICI signature genes A
MIR3142HG	ICI signature genes B
MIR3945HG	ICI signature genes B
MIR4314	ICI signature genes B
MIR4537	ICI signature genes A
MIR4539	ICI signature genes A
MIR670HG	ICI signature genes B
MIR8071-2	ICI signature genes A
MLLT10P2	ICI signature genes B
MME	ICI signature genes B
MMP1	ICI signature genes B
MMP10	ICI signature genes B
MMP11	ICI signature genes A
MMP12	ICI signature genes A
MMP13	ICI signature genes A
MMP16	ICI signature genes B
MMP19	ICI signature genes A
MMP2	ICI signature genes A
MMP2-AS1	ICI signature genes B
MMP28	ICI signature genes B
MMP3	ICI signature genes B
MMP7	ICI signature genes A
MMP8	ICI signature genes B
MMP9	ICI signature genes A
MMRN1	ICI signature genes A
MNDA	ICI signature genes A
MOXD1	ICI signature genes A
MPEG1	ICI signature genes A
MPPED1	ICI signature genes B
MRC1	ICI signature genes A
MRGPRF	ICI signature genes A
MRGPRG	ICI signature genes B
MRPL50P1	ICI signature genes B
MRPS10P1	ICI signature genes B
MRV11	ICI signature genes A
MS4A1	ICI signature genes A
MS4A14	ICI signature genes B
MS4A15	ICI signature genes A
MS4A2	ICI signature genes B
MS4A4A	ICI signature genes A
MS4A6A	ICI signature genes A
MS4A7	ICI signature genes A
MSLN	ICI signature genes A
MSR1	ICI signature genes A
MSRB3	ICI signature genes A
MT1M	ICI signature genes A
MUCL3	ICI signature genes B
MXRA5	ICI signature genes A

MXRA5Y	ICI signature genes B
MXRA8	ICI signature genes A
MYBPC2	ICI signature genes B
MYL3	ICI signature genes B
MYO1F	ICI signature genes A
MYO1G	ICI signature genes A
MYOCD	ICI signature genes B
MZB1	ICI signature genes A
NAIP	ICI signature genes B
NAIPP1	ICI signature genes B
NALCN	ICI signature genes B
NAPSA	ICI signature genes A
NAPSB	ICI signature genes A
NAV3	ICI signature genes B
NCAM2	ICI signature genes B
NCF1	ICI signature genes A
NCF1B	ICI signature genes A
NCF1C	ICI signature genes A
NCF4	ICI signature genes A
NCKAP1L	ICI signature genes A
NCR1	ICI signature genes B
NCR3	ICI signature genes A
NDNF	ICI signature genes A
NECAB2	ICI signature genes B
NEFL	ICI signature genes B
NEGR1	ICI signature genes B
NELL1	ICI signature genes B
NETO1	ICI signature genes B
NEXN	ICI signature genes A
NF1P8	ICI signature genes B
NFAM1	ICI signature genes A
NFATC2	ICI signature genes A
NIBAN3	ICI signature genes A
NID2	ICI signature genes A
NKAIN2	ICI signature genes B
NKG7	ICI signature genes A
NKX2-1	ICI signature genes A
NKX3-2	ICI signature genes B
NLRC3	ICI signature genes A
NLRP12	ICI signature genes B
NLRP3	ICI signature genes A
NLRP7	ICI signature genes B
NMRAL2P	ICI signature genes B
NNMT	ICI signature genes A
NOX4	ICI signature genes B
NPFFR1	ICI signature genes B
NR0B1	ICI signature genes B
NR4A3	ICI signature genes A
NRIR	ICI signature genes B
NT5E	ICI signature genes B
NTM	ICI signature genes A
NTNG1	ICI signature genes B
NTRK3	ICI signature genes B
NTS	ICI signature genes B
NUGGC	ICI signature genes A
ODAM	ICI signature genes B
OGN	ICI signature genes A
OLFML1	ICI signature genes A

OLFML2B	ICI signature genes A
OLFML3	ICI signature genes A
OLR1	ICI signature genes A
OMD	ICI signature genes A
OR10AE1P	ICI signature genes B
OR1E3	ICI signature genes B
OR2C3	ICI signature genes B
OR2I1P	ICI signature genes A
OR4C14P	ICI signature genes B
OR4K13	ICI signature genes B
OR6C66P	ICI signature genes B
OR7E22P	ICI signature genes B
OR7E47P	ICI signature genes B
ORM1	ICI signature genes A
ORM2	ICI signature genes A
OSCAR	ICI signature genes A
OSGIN1	ICI signature genes B
OSM	ICI signature genes A
OTOP1	ICI signature genes B
OTOP2	ICI signature genes B
OTOP3	ICI signature genes B
P2RX1	ICI signature genes A
P2RX5	ICI signature genes A
P2RX7	ICI signature genes A
P2RY10	ICI signature genes A
P2RY12	ICI signature genes B
P2RY13	ICI signature genes A
P2RY14	ICI signature genes A
P2RY8	ICI signature genes A
P4HA3	ICI signature genes B
PABPC5	ICI signature genes B
PADI2	ICI signature genes A
PAEP	ICI signature genes B
PAK3	ICI signature genes B
PALM2AKAP2	ICI signature genes B
PANX3	ICI signature genes B
PAPPA	ICI signature genes B
PARP15	ICI signature genes A
PART1	ICI signature genes B
PARVG	ICI signature genes A
PATL2	ICI signature genes B
PAX5	ICI signature genes A
PCAT29	ICI signature genes B
PCDHGA12	ICI signature genes B
PCDHGA9	ICI signature genes B
PCED1B-AS1	ICI signature genes A
PCOLCE	ICI signature genes A
PDCD1	ICI signature genes A
PDCD1LG2	ICI signature genes A
PDE1A	ICI signature genes B
PDE4B	ICI signature genes A
PDE6G	ICI signature genes A
PDGFRA	ICI signature genes A
PDGFRB	ICI signature genes A
PDGFRL	ICI signature genes A
PDK4	ICI signature genes A
PDLIM3	ICI signature genes A
PDPN	ICI signature genes A

PDZRN3	ICI signature genes A
PDZRN4	ICI signature genes B
PEAK3	ICI signature genes B
PEBP4	ICI signature genes A
PECAM1	ICI signature genes A
PEG3	ICI signature genes B
PGC	ICI signature genes A
PGM5	ICI signature genes B
PGR	ICI signature genes B
PIANP	ICI signature genes B
PIEZO2	ICI signature genes B
PIGR	ICI signature genes A
PIK3AP1	ICI signature genes A
PIK3CG	ICI signature genes A
PIK3R5	ICI signature genes A
PIK3R6	ICI signature genes A
PILRA	ICI signature genes A
PIM2	ICI signature genes A
PKD2L1	ICI signature genes B
PKHD1L1	ICI signature genes B
PLA1A	ICI signature genes A
PLA2G12B	ICI signature genes B
PLA2G1B	ICI signature genes A
PLA2G2A	ICI signature genes A
PLA2G2D	ICI signature genes A
PLA2G5	ICI signature genes B
PLA2G7	ICI signature genes A
PLAAT4	ICI signature genes A
PLAC8	ICI signature genes A
PLCL2	ICI signature genes A
PLCXD3	ICI signature genes B
PLD4	ICI signature genes B
PLEK	ICI signature genes A
PLN	ICI signature genes A
PLPP4	ICI signature genes B
PLPP7	ICI signature genes B
PLXNA4	ICI signature genes B
PLXNC1	ICI signature genes A
PMEPA1	ICI signature genes A
PMP22	ICI signature genes A
PNCK	ICI signature genes B
PNMA2	ICI signature genes B
PNMA3	ICI signature genes B
PNMA8A	ICI signature genes B
PNOC	ICI signature genes A
PODN	ICI signature genes A
PODNL1	ICI signature genes A
POSTN	ICI signature genes A
POU2F2	ICI signature genes A
PPFIA2	ICI signature genes B
PPIAP39	ICI signature genes B
PPP1R16B	ICI signature genes A
PPP1R1AP1	ICI signature genes B
PPP1R9A	ICI signature genes B
PQLC1P1	ICI signature genes B
PRAC2	ICI signature genes B
PRAME	ICI signature genes B
PRAMEF13	ICI signature genes B

PRELP	ICI signature genes A
PRF1	ICI signature genes A
PRG4	ICI signature genes B
PRKCB	ICI signature genes A
PRND	ICI signature genes B
PROKR2	ICI signature genes B
PRRX1	ICI signature genes A
PSMB9	ICI signature genes A
PTAFR	ICI signature genes A
PTCRA	ICI signature genes B
PTF1A	ICI signature genes B
PTGDR	ICI signature genes B
PTGDS	ICI signature genes A
PTGER2	ICI signature genes A
PTGER3	ICI signature genes B
PTGES3P2	ICI signature genes B
PTGFR	ICI signature genes B
PTGIS	ICI signature genes A
PTHLH	ICI signature genes B
PTPN22	ICI signature genes A
PTPN7	ICI signature genes A
PTPRC	ICI signature genes A
PTPRN	ICI signature genes B
PTX3	ICI signature genes B
PXDN	ICI signature genes B
PYHIN1	ICI signature genes A
RAB37	ICI signature genes A
RANBP3L	ICI signature genes B
RARRES2	ICI signature genes A
RARRES2P8	ICI signature genes B
RASAL3	ICI signature genes A
RASGRF1	ICI signature genes B
RASGRF2	ICI signature genes B
RASGRP4	ICI signature genes B
RASSF2	ICI signature genes A
RASSF4	ICI signature genes A
RBMY1A1	ICI signature genes B
RBMY3AP	ICI signature genes B
RCAN2	ICI signature genes A
RCN3	ICI signature genes A
RCSD1	ICI signature genes A
REM1	ICI signature genes B
RETN	ICI signature genes A
RFLNA	ICI signature genes A
RFTN1	ICI signature genes A
RGS1	ICI signature genes A
RGS13	ICI signature genes B
RGS18	ICI signature genes A
RGS4	ICI signature genes B
RHEX	ICI signature genes B
RHOH	ICI signature genes A
RIPOR2	ICI signature genes A
RN7SKP229	ICI signature genes B
RN7SKP231	ICI signature genes B
RN7SKP48	ICI signature genes B
RN7SL132P	ICI signature genes B
RN7SL617P	ICI signature genes B
RNA5-8SN3	ICI signature genes B

RNA5-8SP4	ICI signature genes B
RNA5SP263	ICI signature genes B
RNASE1	ICI signature genes A
RNASE2	ICI signature genes A
RNASE6	ICI signature genes A
RNASE7	ICI signature genes B
RNU1-34P	ICI signature genes B
RNU4ATAC6P	ICI signature genes B
RNU6-189P	ICI signature genes B
RNU6-562P	ICI signature genes B
RNU6-579P	ICI signature genes B
ROR1	ICI signature genes B
RORC	ICI signature genes A
ROS1	ICI signature genes A
RP1-309I22.2	ICI signature genes B
RP11-345J18.2	ICI signature genes B
RP11-366M4.11	ICI signature genes B
RP11-367G6.3	ICI signature genes B
RP11-401P9.4	ICI signature genes B
RP11-445P19.3	ICI signature genes B
RP11-556E13.1	ICI signature genes B
RP11-652L8.4	ICI signature genes B
RP11-706O15.3	ICI signature genes B
RP3-492J12.2	ICI signature genes B
RP4-669B10.3	ICI signature genes B
RPL31P41	ICI signature genes B
RSAD2	ICI signature genes A
RSPO1	ICI signature genes B
RSPO3	ICI signature genes A
RTL3	ICI signature genes B
RTN1	ICI signature genes B
RTP5	ICI signature genes B
RUBCNL	ICI signature genes A
RUFY4	ICI signature genes B
RUNX1T1	ICI signature genes B
S100A2	ICI signature genes B
S100B	ICI signature genes A
S1PR1	ICI signature genes A
S1PR4	ICI signature genes A
SAA1	ICI signature genes A
SAA2	ICI signature genes A
SAA2-SAA4	ICI signature genes A
SAGE1	ICI signature genes B
SAMD3	ICI signature genes B
SAMD9L	ICI signature genes A
SAMSN1	ICI signature genes A
SAPCD1	ICI signature genes B
SASH3	ICI signature genes A
SBSN	ICI signature genes B
SCARA5	ICI signature genes B
SCARF2	ICI signature genes A
SCGB3A1	ICI signature genes A
SCGB3A2	ICI signature genes A
SCIMP	ICI signature genes A
SCML4	ICI signature genes B
SCN1A	ICI signature genes B
SCN2B	ICI signature genes B
SCN7A	ICI signature genes A

SCTR	ICI signature genes A
SELE	ICI signature genes A
SELL	ICI signature genes A
SELP	ICI signature genes A
SELPLG	ICI signature genes A
SEMA3C	ICI signature genes B
SEMA5A	ICI signature genes B
SENCR	ICI signature genes B
SEPTIN1	ICI signature genes A
SERPINA1	ICI signature genes A
SERPING1	ICI signature genes A
SERTM2	ICI signature genes B
SFRP2	ICI signature genes A
SFRP4	ICI signature genes A
SFTA2	ICI signature genes A
SFTA3	ICI signature genes A
SFTPA1	ICI signature genes A
SFTPA2	ICI signature genes A
SFTPA3P	ICI signature genes B
SFTPB	ICI signature genes A
SFTPC	ICI signature genes A
SFTPD	ICI signature genes A
SGCA	ICI signature genes A
SGCD	ICI signature genes B
SGIP1	ICI signature genes B
SH2D1A	ICI signature genes A
SH2D1B	ICI signature genes B
SH2D5	ICI signature genes B
SHANK1	ICI signature genes B
SHISA2	ICI signature genes B
SHISA9	ICI signature genes B
SHISAL1	ICI signature genes B
SIGLEC1	ICI signature genes A
SIGLEC10	ICI signature genes A
SIGLEC11	ICI signature genes B
SIGLEC12	ICI signature genes A
SIGLEC14	ICI signature genes A
SIGLEC22P	ICI signature genes B
SIGLEC5	ICI signature genes B
SIGLEC6	ICI signature genes B
SIGLEC7	ICI signature genes A
SIGLEC8	ICI signature genes A
SIGLEC9	ICI signature genes A
SIRPB1	ICI signature genes A
SIRPB2	ICI signature genes A
SIRPG	ICI signature genes A
SIRPG-AS1	ICI signature genes B
SIT1	ICI signature genes A
SKAP1	ICI signature genes A
SLA	ICI signature genes A
SLA2	ICI signature genes A
SLAMF1	ICI signature genes A
SLAMF6	ICI signature genes A
SLAMF7	ICI signature genes A
SLAMF8	ICI signature genes A
SLC10A6	ICI signature genes B
SLC12A3	ICI signature genes B
SLC13A5	ICI signature genes B

SLC15A3	ICI signature genes A
SLC16A4	ICI signature genes A
SLC18A3	ICI signature genes B
SLC1A7	ICI signature genes B
SLC22A3	ICI signature genes A
SLC22A31	ICI signature genes A
SLC24A2	ICI signature genes B
SLC26A4-AS1	ICI signature genes B
SLC34A2	ICI signature genes A
SLC46A2	ICI signature genes B
SLC47A2	ICI signature genes B
SLC5A9	ICI signature genes B
SLC6A2	ICI signature genes B
SLC7A10	ICI signature genes B
SLC7A7	ICI signature genes A
SLCO2A1	ICI signature genes A
SLCO2B1	ICI signature genes A
SLCO5A1	ICI signature genes B
SLFN12L	ICI signature genes B
SLIT3	ICI signature genes A
SMARCE1P7	ICI signature genes B
SMIM25	ICI signature genes A
SNED1	ICI signature genes A
SNX20	ICI signature genes A
SOCAR	ICI signature genes B
SOD3	ICI signature genes A
SORCS2	ICI signature genes B
SOX11	ICI signature genes B
SOX2	ICI signature genes B
SOX2-OT	ICI signature genes B
SOX21	ICI signature genes B
SP140	ICI signature genes A
SPAG6	ICI signature genes A
SPANXA1	ICI signature genes B
SPARC	ICI signature genes A
SPATA20P1	ICI signature genes A
SPATA31C1	ICI signature genes B
SPATA8-AS1	ICI signature genes B
SPI1	ICI signature genes A
SPIB	ICI signature genes A
SPN	ICI signature genes A
SPNS3	ICI signature genes B
SPOCK1	ICI signature genes B
SPOCK2	ICI signature genes A
SPON1	ICI signature genes A
SPON2	ICI signature genes A
SRGN	ICI signature genes A
SSC5D	ICI signature genes A
SSPN	ICI signature genes A
SST	ICI signature genes B
SSTR1	ICI signature genes B
SSTR2	ICI signature genes B
SSTR3	ICI signature genes B
SSU72P3	ICI signature genes B
ST6GALNAC5	ICI signature genes A
ST8SIA2	ICI signature genes B
STAB1	ICI signature genes A
STAP1	ICI signature genes A

STARD13	ICI signature genes A
STARD8	ICI signature genes A
STAT4	ICI signature genes A
STXBP5L	ICI signature genes B
SUCNR1	ICI signature genes A
SUGCT	ICI signature genes B
SULF1	ICI signature genes A
SULT1C2	ICI signature genes B
SUSD3	ICI signature genes A
SUSD5	ICI signature genes B
SYNDIG1	ICI signature genes B
SYNE1	ICI signature genes A
SYNPO2	ICI signature genes A
SYT15	ICI signature genes B
TAFA5	ICI signature genes B
TAGAP	ICI signature genes A
TAGLN	ICI signature genes A
TBC1D10C	ICI signature genes A
TBC1D27P	ICI signature genes B
TBX21	ICI signature genes A
TBX5-AS1	ICI signature genes B
TBXAS1	ICI signature genes A
TCF21	ICI signature genes A
TCL1A	ICI signature genes A
TDRD6	ICI signature genes B
TENM2	ICI signature genes B
TENM3	ICI signature genes B
TENM3-AS1	ICI signature genes B
TENT5C	ICI signature genes A
TESPA1	ICI signature genes A
TFAP2D	ICI signature genes B
TFEC	ICI signature genes A
TGFB3	ICI signature genes A
TGFBI	ICI signature genes A
TGM2	ICI signature genes A
THBS1	ICI signature genes A
THBS2	ICI signature genes A
THEMIS	ICI signature genes B
THEMIS2	ICI signature genes A
THY1	ICI signature genes A
TIFAB	ICI signature genes B
TIGIT	ICI signature genes A
TIMD4	ICI signature genes A
TIMP2	ICI signature genes A
TIMP3	ICI signature genes A
TLR10	ICI signature genes A
TLR4	ICI signature genes A
TLR7	ICI signature genes A
TLR8	ICI signature genes A
TLX2	ICI signature genes B
TM6SF1	ICI signature genes A
TMEM100	ICI signature genes A
TMEM119	ICI signature genes A
TMEM130	ICI signature genes A
TMEM132D	ICI signature genes B
TMEM132D-AS1	ICI signature genes B
TMEM150B	ICI signature genes A
TMEM156	ICI signature genes A

TMEM158	ICI signature genes B
TMEM163	ICI signature genes B
TMEM176A	ICI signature genes A
TMEM176B	ICI signature genes A
TMEM200A	ICI signature genes A
TMEM212	ICI signature genes B
TMEM229B	ICI signature genes B
TMEM236	ICI signature genes B
TMEM271	ICI signature genes B
TMEM273	ICI signature genes A
TMEM52B	ICI signature genes B
TMIGD2	ICI signature genes B
TMIGD3	ICI signature genes A
TMPRSS11D	ICI signature genes B
TMPRSS2	ICI signature genes A
TNC	ICI signature genes B
TNFAIP6	ICI signature genes A
TNFAIP8L2	ICI signature genes A
TNFRSF13B	ICI signature genes A
TNFRSF17	ICI signature genes A
TNFRSF1B	ICI signature genes A
TNFRSF8	ICI signature genes B
TNFRSF9	ICI signature genes A
TNFSF11	ICI signature genes B
TNFSF13B	ICI signature genes A
TNFSF14	ICI signature genes B
TNFSF4	ICI signature genes A
TNFSF8	ICI signature genes A
TNIP3	ICI signature genes A
TNN	ICI signature genes B
TNNC1	ICI signature genes A
TNR	ICI signature genes B
TNR-IT1	ICI signature genes B
TNS3	ICI signature genes A
TOMM20P2	ICI signature genes B
TPTE	ICI signature genes B
TRAC	ICI signature genes A
TRAF3IP3	ICI signature genes A
TRAT1	ICI signature genes A
TRAV1-2	ICI signature genes B
TRAV10	ICI signature genes B
TRAV12-1	ICI signature genes A
TRAV12-2	ICI signature genes A
TRAV12-3	ICI signature genes A
TRAV13-1	ICI signature genes A
TRAV13-2	ICI signature genes B
TRAV14DV4	ICI signature genes B
TRAV16	ICI signature genes B
TRAV17	ICI signature genes B
TRAV19	ICI signature genes A
TRAV2	ICI signature genes A
TRAV20	ICI signature genes B
TRAV21	ICI signature genes A
TRAV22	ICI signature genes B
TRAV23DV6	ICI signature genes B
TRAV24	ICI signature genes B
TRAV25	ICI signature genes B
TRAV26-1	ICI signature genes B

TRAV26-2	ICI signature genes B
TRAV27	ICI signature genes B
TRAV29DV5	ICI signature genes B
TRAV3	ICI signature genes B
TRAV35	ICI signature genes B
TRAV36DV7	ICI signature genes B
TRAV39	ICI signature genes B
TRAV4	ICI signature genes A
TRAV41	ICI signature genes B
TRAV5	ICI signature genes B
TRAV6	ICI signature genes B
TRAV8-1	ICI signature genes B
TRAV8-2	ICI signature genes B
TRAV8-3	ICI signature genes A
TRAV8-4	ICI signature genes B
TRAV8-6	ICI signature genes A
TRAV9-2	ICI signature genes A
TRBC1	ICI signature genes A
TRBC2	ICI signature genes A
TRBJ2-7	ICI signature genes A
TRBV10-3	ICI signature genes A
TRBV11-2	ICI signature genes A
TRBV12-3	ICI signature genes B
TRBV12-4	ICI signature genes A
TRBV13	ICI signature genes B
TRBV14	ICI signature genes B
TRBV15	ICI signature genes B
TRBV18	ICI signature genes A
TRBV19	ICI signature genes A
TRBV2	ICI signature genes A
TRBV20-1	ICI signature genes A
TRBV23-1	ICI signature genes B
TRBV24-1	ICI signature genes B
TRBV27	ICI signature genes B
TRBV28	ICI signature genes A
TRBV29-1	ICI signature genes A
TRBV3-1	ICI signature genes A
TRBV30	ICI signature genes A
TRBV4-1	ICI signature genes A
TRBV4-2	ICI signature genes A
TRBV5-1	ICI signature genes A
TRBV5-4	ICI signature genes A
TRBV5-6	ICI signature genes A
TRBV6-1	ICI signature genes A
TRBV6-5	ICI signature genes A
TRBV6-6	ICI signature genes A
TRBV7-3	ICI signature genes B
TRBV7-4	ICI signature genes B
TRBV7-6	ICI signature genes B
TRBV7-9	ICI signature genes A
TRBV9	ICI signature genes A
TRDC	ICI signature genes A
TRDV1	ICI signature genes B
TREM1	ICI signature genes A
TREM2	ICI signature genes A
TREML1	ICI signature genes B
TRG-AS1	ICI signature genes B
TRGC1	ICI signature genes B

TRGC2	ICI signature genes A
TRGV10	ICI signature genes A
TRGV3	ICI signature genes B
TRGV4	ICI signature genes B
TRGV5	ICI signature genes B
TRGV7	ICI signature genes B
TRIM55	ICI signature genes B
TRIM61	ICI signature genes B
TRIML2	ICI signature genes B
TRPC7-AS2	ICI signature genes B
TRPV2	ICI signature genes A
TSHR	ICI signature genes B
TSHZ3	ICI signature genes B
TSPAN11	ICI signature genes A
TSPAN2	ICI signature genes A
TSPAN32	ICI signature genes B
TSPAN4	ICI signature genes A
TSPY2	ICI signature genes B
TTC24	ICI signature genes B
TUSC7	ICI signature genes B
TVP23A	ICI signature genes B
TWIST1	ICI signature genes B
TXK	ICI signature genes B
TYROBP	ICI signature genes A
UBASH3A	ICI signature genes A
UBD	ICI signature genes A
UBE2QL1	ICI signature genes B
UGT1A6	ICI signature genes B
UGT1A7	ICI signature genes B
UNC5A	ICI signature genes B
UNC5C	ICI signature genes B
USH1G	ICI signature genes B
USP30-AS1	ICI signature genes A
VCAM1	ICI signature genes A
VCAN	ICI signature genes A
VEGFD	ICI signature genes A
VENTX	ICI signature genes B
VENTXP5	ICI signature genes B
VGLL3	ICI signature genes A
VIM	ICI signature genes A
VNN1	ICI signature genes A
VNN2	ICI signature genes A
VSIG4	ICI signature genes A
VSTM1	ICI signature genes B
VSTM2L	ICI signature genes A
VSTM4	ICI signature genes A
WAS	ICI signature genes A
WDFY4	ICI signature genes A
WFDC5	ICI signature genes B
WIPF1	ICI signature genes A
WNT2	ICI signature genes A
XAGE2	ICI signature genes B
XCL2	ICI signature genes A
XCR1	ICI signature genes B
XIRP1	ICI signature genes B
XIST	ICI signature genes A
XKR4	ICI signature genes B
XKR7	ICI signature genes B

XPNPEP2	ICI signature genes B
XXYLT1-AS2	ICI signature genes B
Z95114.3	ICI signature genes B
ZAP70	ICI signature genes A
ZBP1	ICI signature genes A
ZBTB16	ICI signature genes B
ZC3H12D	ICI signature genes A
ZEB2	ICI signature genes A
ZEB2-AS1	ICI signature genes B
ZFHX4	ICI signature genes B
ZFP57	ICI signature genes B
ZIC3	ICI signature genes B
ZNF366	ICI signature genes B
ZNF385D	ICI signature genes B
ZNF423	ICI signature genes B
ZNF469	ICI signature genes B
ZNF521	ICI signature genes A
ZNF683	ICI signature genes A
ZNF734P	ICI signature genes B
ZNF80	ICI signature genes B
ZNF804A	ICI signature genes B
ZNF831	ICI signature genes B
ZPLD1	ICI signature genes B
ZYG11A	ICI signature genes B

Table-S6-ICI score for each individual

Tag	ICI score	ICI score group according to X-tile
TCGA-34-5234	1.544043521	High
TCGA-96-7544	-0.931571569	Low
TCGA-85-A513	-1.137877033	Low
TCGA-85-8584	1.316153426	High
TCGA-85-A511	-0.079421555	High
TCGA-66-2789	0.485929559	High
TCGA-22-0940	0.484505843	High
TCGA-96-A4JL	1.627464558	High
TCGA-77-8136	-0.464589508	High
TCGA-63-5131	0.851938446	High
TCGA-90-7964	-0.051154649	High
TCGA-85-A5B5	0.04297421	High
TCGA-37-3789	0.465675467	High
TCGA-O2-A5IB	1.647481702	High
TCGA-58-8390	0.742565671	High
TCGA-66-2777	-0.819016086	Low
TCGA-77-8140	0.330324299	High
TCGA-98-A538	-0.723476552	High
TCGA-66-2785	-0.161925757	High
TCGA-43-5670	0.545836861	High
TCGA-22-5472	0.355308529	High
TCGA-60-2704	-1.581584553	Low
TCGA-77-6843	0.247138069	High
TCGA-63-A5MG	-2.181351953	Low
TCGA-66-2734	-0.331864926	High
TCGA-43-2581	-2.217745057	Low
TCGA-52-7811	-0.446056682	High
TCGA-85-8287	-1.835688604	Low
TCGA-85-8355	0.993076602	High
TCGA-94-7033	0.602852833	High
TCGA-60-2697	-0.715056912	High
TCGA-77-8145	0.010006072	High
TCGA-85-7844	0.039917284	High
TCGA-39-5040	1.952090452	High
TCGA-66-2795	-0.852783926	Low
TCGA-33-4586	-0.423311789	High
TCGA-NC-A5HH	1.395530474	High
TCGA-22-1002	1.393429497	High
TCGA-60-2695	0.631130868	High
TCGA-77-A5G8	-0.641667067	High
TCGA-63-A5MP	-0.163034333	High
TCGA-22-0944	-0.171721731	High
TCGA-21-1081	0.181061104	High
TCGA-O2-A52V	-0.156287712	High
TCGA-33-AASB	0.800106986	High
TCGA-63-5128	-0.476911396	High
TCGA-96-8170	0.345447462	High
TCGA-63-A5MW	2.865572858	High
TCGA-37-3792	-0.575116741	High
TCGA-56-A4BX	-0.643615875	High
TCGA-56-8083	3.774137741	High
TCGA-98-A53H	2.84831054	High
TCGA-94-A4VJ	0.395689758	High
TCGA-43-7658	2.494275908	High
TCGA-NC-A5HN	-0.749283297	High
TCGA-63-7021	-1.108660243	Low

TCGA-22-5471	0.51191592 High
TCGA-77-8133	0.412573179 High
TCGA-37-A5EM	0.488107881 High
TCGA-85-8071	0.893727947 High
TCGA-NC-A5HP	0.811178257 High
TCGA-85-A4PA	4.534305926 High
TCGA-33-4582	0.279693695 High
TCGA-43-2578	0.264936655 High
TCGA-34-A5IX	0.517666704 High
TCGA-56-8504	-0.061708362 High
TCGA-18-5595	-0.001255899 High
TCGA-21-5784	-1.001546002 Low
TCGA-90-A4ED	-0.604666084 High
TCGA-MF-A522	-0.295620001 High
TCGA-46-3768	-0.616179367 High
TCGA-77-7335	-1.569075169 Low
TCGA-56-A4BY	0.512212898 High
TCGA-85-8070	-0.526043795 High
TCGA-56-7579	-0.54224447 High
TCGA-NC-A5HG	0.184387639 High
TCGA-56-8305	-0.951684134 Low
TCGA-60-2703	0.320327172 High
TCGA-39-5036	-0.50071705 High
TCGA-33-6737	0.200446804 High
TCGA-34-2608	-1.758950121 Low
TCGA-39-5024	0.357406058 High
TCGA-77-7142	0.80456417 High
TCGA-85-8350	1.121818482 High
TCGA-O2-A52Q	-0.205737 High
TCGA-68-8250	-0.202623224 High
TCGA-70-6723	0.198139195 High
TCGA-68-8251	1.051746634 High
TCGA-85-7697	-0.271425114 High
TCGA-66-2756	1.456382858 High
TCGA-85-6561	-3.133967867 Low
TCGA-94-7943	0.88289153 High
TCGA-22-1011	-3.449207954 Low
TCGA-85-8664	0.69447279 High
TCGA-63-A5MH	1.547103905 High
TCGA-94-8490	-0.345915775 High
TCGA-85-8481	-0.28016173 High
TCGA-60-2716	0.534584735 High
TCGA-O2-A52S	-0.423819252 High
TCGA-51-4080	-0.223563203 High
TCGA-22-5485	-0.87820596 Low
TCGA-85-6175	-0.313420182 High
TCGA-85-8276	-2.208041711 Low
TCGA-77-8008	-1.180111757 Low
TCGA-39-5028	-0.870954656 Low
TCGA-34-5928	-1.49E-01 High
TCGA-43-6773	-7.06142189 Low
TCGA-63-A5MI	0.599783792 High
TCGA-63-A5ML	0.202789688 High
TCGA-39-5030	-4.451494771 Low
TCGA-51-4079	-1.707616381 Low
TCGA-22-5491	-0.057444171 High
TCGA-66-2744	-0.953021985 Low
TCGA-33-4547	0.069553625 High

TCGA-52-7810	0.165922 High
TCGA-77-7139	-0.743925967 High
TCGA-66-2800	-1.142194708 Low
TCGA-33-4566	-0.756860254 High
TCGA-90-7766	-1.200490539 Low
TCGA-60-2707	-0.465204079 High
TCGA-56-8628	0.893008271 High
TCGA-85-8666	-0.453727622 High
TCGA-60-2721	0.508355134 High
TCGA-22-4596	0.444849644 High
TCGA-33-A5GW	-0.04477713 High
TCGA-60-2715	2.095849313 High
TCGA-85-8351	0.591025805 High
TCGA-58-A46M	-0.363012296 High
TCGA-37-4129	5.225163183 High
TCGA-21-1075	-0.478891042 High
TCGA-43-7656	0.711014153 High
TCGA-58-8388	2.22083007 High
TCGA-98-A53J	0.095098362 High
TCGA-85-7696	0.584426133 High
TCGA-34-5231	0.293434624 High
TCGA-34-5929	0.253729223 High
TCGA-22-5492	-0.896474997 Low
TCGA-98-A53C	3.820896174 High
TCGA-94-8491	0.691662813 High
TCGA-90-7767	1.348767852 High
TCGA-96-8169	-0.560880405 High
TCGA-34-2596	0.168756683 High
TCGA-56-A62T	-0.123939082 High
TCGA-21-1071	0.146001229 High
TCGA-22-5480	1.071792622 High
TCGA-77-A5GH	0.49124625 High
TCGA-L3-A4E7	0.544159457 High
TCGA-60-2723	-1.373418694 Low
TCGA-37-3783	0.844180038 High
TCGA-66-2763	-0.206367254 High
TCGA-63-6202	-0.630445055 High
TCGA-L3-A524	-0.322239698 High
TCGA-98-8021	0.413482162 High
TCGA-77-A5GF	-0.80902599 Low
TCGA-66-2787	-0.243183868 High
TCGA-77-8138	-0.466481713 High
TCGA-63-A5MR	0.035700693 High
TCGA-66-2768	0.336268293 High
TCGA-77-8146	-0.185015007 High
TCGA-43-A56V	-0.098230377 High
TCGA-22-1005	-5.014943001 Low
TCGA-66-2780	-0.595776118 High
TCGA-77-8156	-0.87673882 Low
TCGA-66-2790	1.393602552 High
TCGA-98-8022	-0.163579362 High
TCGA-58-A46L	1.791685064 High
TCGA-O2-A52N	0.985934528 High
TCGA-63-7022	-5.056243744 Low
TCGA-37-4135	1.459361088 High
TCGA-66-2727	-0.572792075 High
TCGA-34-7107	-1.358513964 Low
TCGA-NC-A5HD	0.121475511 High

TCGA-56-7582	-0.200658779 High
TCGA-18-3415	-0.633425372 High
TCGA-56-7580	0.075171022 High
TCGA-33-AASL	0.580161353 High
TCGA-43-2576	-1.463899566 Low
TCGA-77-A5FZ	-1.15326389 Low
TCGA-33-4583	-0.012858756 High
TCGA-46-6026	0.655403452 High
TCGA-18-3414	0.773716296 High
TCGA-63-A5MY	-0.023822898 High
TCGA-56-8082	0.380418869 High
TCGA-60-2712	-3.28913149 Low
TCGA-60-2698	-0.005514435 High
TCGA-52-7809	1.659015977 High
TCGA-34-5232	0.473845503 High
TCGA-18-4083	-0.35878798 High
TCGA-37-A5EN	0.178765968 High
TCGA-85-A510	3.004454876 High
TCGA-60-2720	-0.751712899 High
TCGA-60-2710	-0.63860232 High
TCGA-94-8035	-0.061248869 High
TCGA-22-4593	0.384324747 High
TCGA-18-3419	-0.526773938 High
TCGA-66-2793	0.9474929 High
TCGA-21-1079	0.366398699 High
TCGA-92-8064	-1.17486966 Low
TCGA-63-7023	0.383348702 High
TCGA-60-2706	-0.071895742 High
TCGA-98-7454	-0.781164834 High
TCGA-37-4141	2.49E+00 High
TCGA-22-5477	-0.168502593 High
TCGA-33-4533	2.904224877 High
TCGA-77-8128	-0.507964396 High
TCGA-56-8309	-0.123888482 High
TCGA-56-A5DR	0.30198539 High
TCGA-37-4130	4.275100832 High
TCGA-58-A46J	0.320161014 High
TCGA-43-6143	0.528383627 High
TCGA-77-A5G6	0.353002839 High
TCGA-39-5031	-0.76817175 High
TCGA-90-A59Q	0.296029593 High
TCGA-68-7755	-0.556668553 High
TCGA-66-2767	0.521349127 High
TCGA-66-2771	-0.108819361 High
TCGA-85-6560	0.117177862 High
TCGA-56-8304	-0.686302219 High
TCGA-56-7221	0.948729169 High
TCGA-18-3421	0.643462466 High
TCGA-51-6867	0.349975925 High
TCGA-NC-A5HL	0.986366675 High
TCGA-77-A5G1	0.188469689 High
TCGA-96-7545	0.112013158 High
TCGA-NC-A5HM	0.47548564 High
TCGA-33-4589	-0.849673082 Low
TCGA-85-A4QR	0.033057402 High
TCGA-60-2711	-0.436530412 High
TCGA-33-4532	-0.234280262 High
TCGA-NC-A5HJ	3.228184979 High

TCGA-21-5787	-0.081358498	High
TCGA-85-8479	0.430249148	High
TCGA-34-5240	-0.30121038	High
TCGA-77-8148	-0.808205893	Low
TCGA-56-8626	1.418324291	High
TCGA-33-A4WN	-0.690361633	High
TCGA-39-5027	-0.071101713	High
TCGA-56-8503	-0.556750313	High
TCGA-56-8623	1.27485852	High
TCGA-77-6845	-0.159446964	High
TCGA-85-A50Z	0.83906381	High
TCGA-77-8144	0.152044212	High
TCGA-85-A53L	0.350370087	High
TCGA-XC-AA0X	-0.03547021	High
TCGA-66-2782	0.499395281	High
TCGA-68-A59I	0.721002747	High
TCGA-77-A5G7	0.915970897	High
TCGA-90-A4EE	2.123028655	High
TCGA-98-8023	0.163933194	High
TCGA-34-8456	-0.020229148	High
TCGA-56-5897	-2.373501108	Low
TCGA-66-2786	0.24772739	High
TCGA-39-5037	-0.377300872	High
TCGA-56-6545	-0.981304176	Low
TCGA-NK-A5CT	1.452318915	High
TCGA-22-1016	1.416221816	High
TCGA-39-5016	-0.04274036	High
TCGA-63-A5MM	0.243906619	High
TCGA-33-4538	-0.285251767	High
TCGA-63-A5MT	0.402812476	High
TCGA-18-3416	1.320989671	High
TCGA-66-2753	-0.425227048	High
TCGA-63-7020	0.383644313	High
TCGA-56-8308	-1.266085894	Low
TCGA-18-3408	-0.488964107	High
TCGA-NK-A5D1	1.660433826	High
TCGA-85-6798	-0.501471604	High
TCGA-22-4599	-1.632363124	Low
TCGA-56-A4ZK	-0.489884652	High
TCGA-56-7731	-1.483434914	Low
TCGA-92-7341	-0.821997993	Low
TCGA-85-8353	-1.555988253	Low
TCGA-85-A4QQ	0.537810933	High
TCGA-77-6842	0.436144916	High
TCGA-22-4595	-0.577176185	High
TCGA-33-4587	1.630998547	High
TCGA-56-A4BW	1.287954387	High
TCGA-21-1076	0.118648696	High
TCGA-6A-AB49	0.798429364	High
TCGA-63-A5M9	0.407437845	High
TCGA-39-5022	-3.319823689	Low
TCGA-43-6771	-0.336222453	High
TCGA-98-8020	-0.354109889	High
TCGA-77-7141	0.179120728	High
TCGA-92-7340	-0.252878417	High
TCGA-56-8622	-0.91696446	Low
TCGA-70-6722	-0.853544923	Low
TCGA-43-A56U	-3.719582018	Low

TCGA-66-2770	-0.339617018 High
TCGA-85-7710	0.721724158 High
TCGA-58-8387	-1.950737269 Low
TCGA-85-8352	1.305181047 High
TCGA-21-5786	-0.938294924 Low
TCGA-33-AASI	0.007573276 High
TCGA-56-8625	0.338789309 High
TCGA-34-2600	0.458948446 High
TCGA-60-2726	1.695953383 High
TCGA-77-8153	-0.510025035 High
TCGA-66-2791	-0.76825371 High
TCGA-68-7756	-0.557360047 High
TCGA-94-7557	0.02344664 High
TCGA-56-A5DS	0.787422884 High
TCGA-22-4613	-1.448145772 Low
TCGA-77-8130	-0.003300349 High
TCGA-21-1080	0.180126591 High
TCGA-98-A53I	-0.084829753 High
TCGA-34-5236	-1.075191853 Low
TCGA-21-5782	22.50137288 High
TCGA-60-2708	0.199110609 High
TCGA-96-A4JK	-0.801537105 Low
TCGA-66-2788	-1.513627096 Low
TCGA-56-8624	1.43423636 High
TCGA-22-5473	-0.54090439 High
TCGA-21-A5DI	0.682453109 High
TCGA-85-8049	-1.947190998 Low
TCGA-21-5783	0.955757743 High
TCGA-46-3765	-1.52604189 Low
TCGA-39-5021	-1.311001617 Low
TCGA-90-6837	-1.020501676 Low
TCGA-39-5011	-0.765711153 High
TCGA-39-5019	-0.318277333 High
TCGA-98-A539	-0.102826076 High
TCGA-66-2781	-0.883638644 Low
TCGA-37-5819	0.214424932 High
TCGA-56-8201	-1.613089284 Low
TCGA-63-A5MB	0.607594919 High
TCGA-60-2722	-0.168766658 High
TCGA-85-8048	0.705180142 High
TCGA-56-7223	1.346806433 High
TCGA-43-8115	-0.092588521 High
TCGA-18-5592	-0.687188012 High
TCGA-77-7337	-0.189118698 High
TCGA-60-2719	0.022622379 High
TCGA-22-5478	0.161478782 High
TCGA-66-2757	0.368397961 High
TCGA-18-3406	-0.391748172 High
TCGA-77-A5GB	-0.616676328 High
TCGA-21-1070	-0.195247208 High
TCGA-43-A475	2.118772727 High
TCGA-85-7698	-0.131589659 High
TCGA-85-7843	-0.890239798 Low
TCGA-NC-A5HT	0.234071859 High
TCGA-58-8393	1.086888444 High
TCGA-66-2737	-0.041789906 High
TCGA-LA-A7SW	1.10944217 High
TCGA-77-8007	-0.252172921 High

TCGA-85-8354	-0.325128237 High
TCGA-22-5474	-2.08724215 Low
TCGA-77-7140	-0.258660807 High
TCGA-22-4601	0.017606444 High
TCGA-66-2794	-0.299388587 High
TCGA-22-1017	0.631580381 High
TCGA-77-A5GA	-0.127556959 High
TCGA-56-7222	0.30311196 High
TCGA-85-7699	-0.690546996 High
TCGA-66-2758	-0.697650645 High
TCGA-85-7950	3.385592778 High
TCGA-39-5034	-0.751543727 High
TCGA-85-8052	-0.645718199 High
TCGA-43-3394	0.066608602 High
TCGA-NK-A5CX	-0.250560304 High
TCGA-39-5035	-0.922359429 Low
TCGA-43-6647	-0.570319214 High
TCGA-18-4086	-1.58882369 Low
TCGA-NC-A5HF	0.299596367 High
TCGA-39-5029	-0.860416419 Low
TCGA-43-5668	-0.591146659 High
TCGA-22-1012	-0.379488263 High
TCGA-34-8454	-0.131920205 High
TCGA-60-2709	-3.262863343 Low
TCGA-85-A512	0.508024451 High
TCGA-NC-A5HI	0.632002674 High
TCGA-18-3409	0.541584921 High
TCGA-56-8307	1.100831319 High
TCGA-85-8288	0.727302945 High
TCGA-18-3410	2.174945862 High
TCGA-22-1000	-2.302436982 Low
TCGA-66-2778	-0.278647221 High
TCGA-34-5239	0.623726687 High
TCGA-34-8455	-0.061863877 High
TCGA-66-2765	-0.523043999 High
TCGA-85-8277	-0.696683872 High
TCGA-92-8065	-0.499190912 High
TCGA-46-3766	-2.223422752 Low
TCGA-77-8131	-2.431585374 Low
TCGA-94-A5I4	-0.225532157 High
TCGA-18-3407	-1.428288952 Low
TCGA-77-8139	-1.622769703 Low
TCGA-21-1078	1.066734384 High
TCGA-18-3411	-1.621191252 Low
TCGA-66-2742	-0.13971879 High
TCGA-56-1622	0.344485884 High
TCGA-77-A5G3	0.243460705 High
TCGA-22-5482	-0.511890403 High
TCGA-NK-A7XE	0.273150604 High
TCGA-22-5489	-2.539552993 Low
TCGA-O2-A52W	0.566834374 High
TCGA-52-7812	0.041715824 High
TCGA-46-6025	-0.184047081 High
TCGA-58-8391	-0.101286049 High
TCGA-85-A50M	0.207946479 High
TCGA-18-3417	-0.737819802 High
TCGA-60-2724	0.061846859 High
TCGA-94-A5I6	-0.105154612 High

TCGA-43-8116	-0.127290432 High
TCGA-34-5241	0.637255246 High
TCGA-77-7338	-0.745502128 High
TCGA-56-7822	0.254744324 High
TCGA-85-A4JC	-0.218403789 High
TCGA-66-2792	-0.252122075 High
TCGA-98-A53A	0.353099318 High
TCGA-22-4594	-3.46680348 Low
TCGA-58-8386	-0.055725102 High
TCGA-22-5481	-0.590709777 High
TCGA-66-2754	2.053827103 High
TCGA-21-1082	0.017446049 High
TCGA-58-8392	-0.300726982 High
TCGA-60-2713	-0.478297837 High
TCGA-22-5479	-1.084526761 Low
TCGA-37-4133	-0.36019729 High
TCGA-63-A5MU	-0.448336605 High
TCGA-66-2769	-0.760793446 High
TCGA-LA-A446	-0.156334757 High
TCGA-66-2759	-0.622966807 High
TCGA-22-4609	-2.058630622 Low
TCGA-66-2773	-0.112976694 High
TCGA-66-2755	-0.216236465 High
TCGA-77-8150	-0.280818795 High
TCGA-37-A5EL	0.678401409 High
TCGA-77-8009	-0.103286445 High
TCGA-33-AAS8	-0.096661261 High
TCGA-58-A46N	-0.202447885 High
TCGA-33-AASD	-0.035832984 High
TCGA-63-A5MS	0.488887336 High
TCGA-43-A474	-0.328302871 High
TCGA-43-6770	-0.322126026 High
TCGA-22-4607	0.042314846 High
TCGA-58-A46K	0.048989723 High
TCGA-77-7465	1.032128693 High
TCGA-18-4721	-1.898887205 Low
TCGA-85-A4CL	0.075521681 High
TCGA-22-4604	-1.231774363 Low
TCGA-56-7730	-0.368859856 High
TCGA-39-5039	-0.223910727 High
TCGA-J1-A4AH	-1.599875492 Low
TCGA-92-8063	-0.223447574 High
TCGA-46-3769	-0.580609062 High
TCGA-43-8118	0.066804227 High
TCGA-NC-A5HO	0.917257171 High
TCGA-22-4605	-0.763374738 High
TCGA-60-2714	-1.245004315 Low
TCGA-33-6738	0.162559746 High
TCGA-63-A5MV	1.588337173 High
TCGA-85-A4CN	-0.694704651 High
TCGA-NC-A5HK	0.973535556 High
TCGA-43-3920	2.042073857 High
TCGA-21-1072	-0.238834592 High
TCGA-98-A53B	1.641978695 High
TCGA-85-8072	-0.112186576 High
TCGA-68-A59J	1.031847102 High
TCGA-66-2766	-0.278028993 High
TCGA-NC-A5HR	0.834839001 High

TCGA-NC-A5HE	2.082004084 High
TCGA-98-A53D	2.723903082 High
TCGA-66-2783	-1.651771476 Low
TCGA-77-7138	0.248015041 High
TCGA-56-8629	0.360514375 High
TCGA-79-5596	-0.408746278 High
TCGA-63-A5MJ	-0.161086724 High
TCGA-56-6546	-1.932282195 Low
TCGA-51-4081	0.216405939 High
TCGA-34-5927	1.516347051 High
TCGA-85-8582	0.157081415 High
TCGA-77-8154	0.268025454 High
TCGA-77-6844	0.764260374 High
TCGA-85-8580	-0.073071091 High
TCGA-56-A4ZJ	0.908445009 High
TCGA-21-1083	1.055673543 High
TCGA-46-3767	0.017362484 High
TCGA-56-5898	-0.415102646 High
TCGA-68-7757	0.045145307 High
TCGA-56-A49D	1.501345032 High
TCGA-18-3412	-0.302912675 High
TCGA-37-4132	-0.607726157 High
TCGA-22-5483	0.03492057 High
TCGA-85-A4JB	0.222102727 High
TCGA-60-2725	-0.076331197 High
TCGA-77-7463	-0.065785386 High
TCGA-33-AASJ	0.091794948 High
TCGA-43-7657	-0.392452659 High
TCGA-22-A5C4	1.190221611 High
TCGA-90-7769	-0.330379153 High
TCGA-21-1077	-1.482813217 Low
TCGA-NC-A5HQ	1.53060454 High
TCGA-60-2696	-0.687647973 High
TCGA-22-4591	0.033267325 High
TCGA-77-8143	0.282248978 High
TCGA-NK-A5CR	-0.551077235 High
TCGA-56-7823	0.244348064 High
TCGA-63-A5MN	-2.4731655 Low
TCGA-52-7622	-0.623573495 High

Table S7-IPS score for each individual

ID	ips_ctla4_neg_pd1_neg	ips_ctla4_neg_pd1_pos	ips_ctla4_pos_pd1_neg	ips_ctla4_pos_pd1_pos
TCGA-34-5234	8	7	8	7
TCGA-96-7544	6	6	6	6
TCGA-85-A513	8	8	9	8
TCGA-85-8584	10	9	10	9
TCGA-85-A511	8	7	7	7
TCGA-66-2789	8	6	7	6
TCGA-22-0940	8	8	8	8
TCGA-96-A4JL	8	8	8	9
TCGA-77-8136	7	7	6	7
TCGA-63-5131	7	6	7	5
TCGA-90-7964	6	5	6	4
TCGA-85-A5B5	6	6	6	5
TCGA-37-3789	8	8	8	8
TCGA-O2-A5IB	7	5	7	5
TCGA-58-8390	7	5	7	5
TCGA-66-2777	7	6	7	6
TCGA-77-8140	7	6	7	5
TCGA-98-A538	7	6	6	5
TCGA-66-2785	8	9	8	9
TCGA-43-5670	8	6	8	6
TCGA-22-5472	7	6	7	5
TCGA-60-2704	6	6	6	6
TCGA-77-6843	7	6	6	5
TCGA-63-A5MG	7	6	7	6
TCGA-66-2734	6	5	5	4
TCGA-43-2581	7	6	6	6
TCGA-52-7811	8	7	8	7
TCGA-85-8287	8	8	8	8
TCGA-85-8355	7	8	7	8
TCGA-94-7033	9	8	9	7
TCGA-60-2697	9	8	9	8
TCGA-77-8145	7	6	7	6
TCGA-85-7844	7	6	6	6
TCGA-39-5040	7	7	7	6
TCGA-66-2795	7	7	7	6
TCGA-33-4586	6	6	6	6
TCGA-NC-A5HH	6	4	6	4
TCGA-22-1002	8	7	7	6
TCGA-60-2695	7	7	7	6
TCGA-77-A5G8	6	6	6	5
TCGA-63-A5MP	7	8	7	8
TCGA-22-0944	9	7	8	7
TCGA-21-1081	6	4	5	4
TCGA-O2-A52V	7	6	6	6
TCGA-33-AASB	7	6	7	5
TCGA-63-5128	7	5	6	5
TCGA-96-8170	8	6	7	6
TCGA-63-A5MW	8	6	7	6
TCGA-37-3792	6	7	7	7
TCGA-56-A4BX	7	6	6	5
TCGA-56-8083	8	6	7	5
TCGA-98-A53H	7	7	7	7
TCGA-94-A4VJ	9	8	9	8
TCGA-43-7658	7	7	7	7
TCGA-NC-A5HN	9	8	9	8
TCGA-63-7021	7	7	7	7
TCGA-22-5471	9	9	8	8
TCGA-77-8133	8	8	8	8
TCGA-37-A5EM	7	6	7	6
TCGA-85-8071	8	7	8	7
TCGA-NC-A5HP	8	6	7	6
TCGA-85-A4PA	9	9	10	10
TCGA-33-4582	7	5	6	4
TCGA-43-2578	8	7	7	6
TCGA-34-A5IX	7	6	7	5
TCGA-56-8504	8	7	7	7
TCGA-18-5595	8	7	7	6
TCGA-21-5784	9	7	8	7
TCGA-90-A4ED	8	8	8	7
TCGA-MF-A522	7	6	7	5
TCGA-46-3768	7	6	7	6
TCGA-77-7335	7	7	7	7
TCGA-56-A4BY	8	8	8	7

TCGA-85-8070	8	8	7	7
TCGA-56-7579	7	5	7	5
TCGA-NC-A5HG	8	6	8	6
TCGA-56-8305	7	6	7	5
TCGA-60-2703	7	5	6	5
TCGA-39-5036	9	8	8	7
TCGA-33-6737	6	5	6	5
TCGA-34-2608	8	7	7	7
TCGA-39-5024	9	8	9	7
TCGA-77-7142	8	6	7	6
TCGA-85-8350	9	7	8	7
TCGA-O2-A52Q	7	7	7	8
TCGA-68-8250	7	7	7	6
TCGA-70-6723	9	7	8	7
TCGA-68-8251	8	7	7	7
TCGA-85-7697	9	7	8	7
TCGA-66-2756	7	5	6	5
TCGA-85-6561	7	7	7	7
TCGA-94-7943	8	7	8	6
TCGA-22-1011	8	7	7	7
TCGA-85-8664	6	4	6	4
TCGA-63-A5MH	6	6	6	5
TCGA-94-8490	7	6	6	5
TCGA-85-8481	8	7	8	7
TCGA-60-2716	7	6	7	5
TCGA-O2-A52S	7	6	7	6
TCGA-51-4080	7	7	7	6
TCGA-22-5485	7	6	6	5
TCGA-85-6175	7	7	7	7
TCGA-85-8276	8	7	8	7
TCGA-77-8008	6	6	6	5
TCGA-39-5028	7	7	7	6
TCGA-34-5928	7	6	7	6
TCGA-43-6773	8	9	8	8
TCGA-63-A5MI	7	6	7	5
TCGA-63-A5ML	7	8	7	7
TCGA-39-5030	7	8	8	8
TCGA-51-4079	7	7	7	7
TCGA-22-5491	7	6	7	6
TCGA-66-2744	7	8	7	8
TCGA-33-4547	7	5	7	5
TCGA-52-7810	7	5	6	5
TCGA-77-7139	7	7	7	7
TCGA-66-2800	7	6	6	6
TCGA-33-4566	8	8	8	8
TCGA-90-7766	7	7	7	7
TCGA-60-2707	7	6	6	5
TCGA-56-8628	7	6	7	6
TCGA-85-8666	6	5	6	5
TCGA-60-2721	8	8	8	8
TCGA-22-4596	7	7	7	7
TCGA-33-A5GW	7	6	6	5
TCGA-60-2715	8	7	8	7
TCGA-85-8351	7	6	7	6
TCGA-58-A46M	7	8	7	7
TCGA-37-4129	7	5	6	4
TCGA-21-1075	6	5	5	5
TCGA-43-7656	7	7	7	7
TCGA-58-8388	7	7	7	7
TCGA-98-A53J	7	6	6	5
TCGA-85-7696	9	7	8	7
TCGA-34-5231	9	8	9	8
TCGA-34-5929	8	7	8	6
TCGA-22-5492	7	7	7	7
TCGA-98-A53C	8	8	8	8
TCGA-94-8491	8	7	8	7
TCGA-90-7767	8	8	7	8
TCGA-96-8169	7	6	7	6
TCGA-34-2596	7	8	6	7
TCGA-56-A62T	7	6	7	6
TCGA-21-1071	6	6	6	6
TCGA-22-5480	9	9	9	9
TCGA-77-A5GH	7	8	7	8
TCGA-L3-A4E7	7	7	7	6
TCGA-60-2723	7	8	7	8
TCGA-37-3783	9	8	9	8

TCGA-66-2763	6	6	6	6
TCGA-63-6202	7	7	7	7
TCGA-L3-A524	7	5	6	5
TCGA-98-8021	8	6	7	6
TCGA-77-A5GF	8	8	7	8
TCGA-66-2787	7	7	6	7
TCGA-77-8138	7	6	7	6
TCGA-63-A5MR	8	7	7	6
TCGA-66-2768	9	8	8	8
TCGA-77-8146	7	6	7	6
TCGA-43-A56V	6	4	6	4
TCGA-22-1005	9	9	10	9
TCGA-66-2780	8	7	8	7
TCGA-77-8156	8	7	7	7
TCGA-66-2790	8	8	8	7
TCGA-98-8022	9	8	9	8
TCGA-58-A46L	7	7	7	7
TCGA-O2-A52N	9	8	9	8
TCGA-63-7022	8	7	8	7
TCGA-37-4135	8	7	7	6
TCGA-66-2727	7	7	7	7
TCGA-34-7107	7	7	7	7
TCGA-NC-A5HD	7	5	6	4
TCGA-56-7582	6	5	6	5
TCGA-18-3415	8	8	8	8
TCGA-56-7580	8	7	8	6
TCGA-33-AASL	8	7	8	7
TCGA-43-2576	7	6	7	6
TCGA-77-A5FZ	7	8	8	8
TCGA-33-4583	9	9	8	9
TCGA-46-6026	7	5	6	4
TCGA-18-3414	8	7	7	6
TCGA-63-A5MY	5	3	4	3
TCGA-56-8082	7	6	6	5
TCGA-60-2712	8	8	8	8
TCGA-60-2698	8	7	7	7
TCGA-52-7809	8	6	7	6
TCGA-34-5232	8	7	8	8
TCGA-18-4083	6	7	6	7
TCGA-37-A5EN	9	8	8	7
TCGA-85-A510	8	7	8	7
TCGA-60-2720	9	8	9	7
TCGA-60-2710	7	7	7	7
TCGA-94-8035	6	5	6	5
TCGA-22-4593	7	6	7	5
TCGA-18-3419	6	6	6	5
TCGA-66-2793	7	5	6	4
TCGA-21-1079	7	7	7	7
TCGA-92-8064	7	8	7	9
TCGA-63-7023	9	8	9	7
TCGA-60-2706	7	7	7	7
TCGA-98-7454	7	7	7	7
TCGA-37-4141	8	8	8	7
TCGA-22-5477	7	7	6	7
TCGA-33-4533	8	6	8	6
TCGA-77-8128	7	6	7	5
TCGA-56-8309	7	8	7	8
TCGA-56-A5DR	6	5	6	5
TCGA-37-4130	8	8	8	8
TCGA-58-A46J	7	6	7	5
TCGA-43-6143	8	7	7	6
TCGA-77-A5G6	7	5	6	5
TCGA-39-5031	8	7	7	6
TCGA-90-A59Q	8	8	8	8
TCGA-68-7755	7	7	7	7
TCGA-66-2767	8	8	8	9
TCGA-66-2771	7	7	7	7
TCGA-85-6560	6	6	6	6
TCGA-56-8304	7	7	7	6
TCGA-56-7221	8	6	7	5
TCGA-18-3421	7	6	6	6
TCGA-51-6867	7	8	7	7
TCGA-NC-A5HL	8	9	8	9
TCGA-77-A5G1	7	6	7	6
TCGA-96-7545	7	7	7	7
TCGA-NC-A5HM	9	8	9	8

TCGA-33-4589	8	8	8	8
TCGA-85-A4QR	7	6	6	5
TCGA-60-2711	8	7	8	7
TCGA-33-4532	7	5	6	5
TCGA-NC-A5HJ	8	9	8	8
TCGA-21-5787	8	8	8	8
TCGA-85-8479	7	5	7	5
TCGA-34-5240	6	6	6	5
TCGA-77-8148	8	7	7	6
TCGA-56-8626	8	6	7	5
TCGA-33-A4WN	7	6	7	6
TCGA-39-5027	8	7	7	6
TCGA-56-8503	7	7	7	7
TCGA-56-8623	8	8	8	8
TCGA-77-6845	6	5	5	4
TCGA-85-A50Z	7	6	6	5
TCGA-77-8144	8	7	7	7
TCGA-85-A53L	7	5	6	5
TCGA-XC-AA0X	7	6	7	6
TCGA-66-2782	7	6	7	6
TCGA-68-A59I	7	6	7	6
TCGA-77-A5G7	8	6	8	6
TCGA-90-A4EE	7	8	8	8
TCGA-98-8023	8	7	8	7
TCGA-34-8456	7	7	7	7
TCGA-56-5897	7	7	7	7
TCGA-66-2786	8	7	8	7
TCGA-39-5037	9	8	8	7
TCGA-56-6545	7	7	7	7
TCGA-NK-A5CT	7	7	7	6
TCGA-22-1016	7	6	6	5
TCGA-39-5016	8	9	8	8
TCGA-63-A5MM	8	8	8	9
TCGA-33-4538	8	8	8	8
TCGA-63-A5MT	7	7	7	6
TCGA-18-3416	8	9	8	9
TCGA-66-2753	7	6	6	5
TCGA-63-7020	8	7	8	7
TCGA-56-8308	8	8	7	7
TCGA-18-3408	7	7	6	6
TCGA-NK-A5D1	9	7	8	7
TCGA-85-6798	7	6	6	6
TCGA-22-4599	7	7	7	7
TCGA-56-A4ZK	6	6	6	6
TCGA-56-7731	7	6	7	6
TCGA-92-7341	7	6	6	6
TCGA-85-8353	8	7	8	7
TCGA-85-A4QQ	8	6	7	6
TCGA-77-6842	6	8	6	8
TCGA-22-4595	7	6	7	6
TCGA-33-4587	7	6	7	5
TCGA-56-A4BW	8	7	8	7
TCGA-21-1076	7	7	7	7
TCGA-6A-AB49	7	6	7	6
TCGA-63-A5M9	7	7	7	7
TCGA-39-5022	9	9	9	9
TCGA-43-6771	7	7	7	7
TCGA-98-8020	8	7	7	7
TCGA-77-7141	7	7	7	6
TCGA-92-7340	7	6	7	6
TCGA-56-8622	8	7	7	6
TCGA-70-6722	7	8	7	7
TCGA-43-A56U	8	8	8	8
TCGA-66-2770	7	7	7	7
TCGA-85-7710	8	8	8	7
TCGA-58-8387	8	9	8	9
TCGA-85-8352	7	5	6	5
TCGA-21-5786	8	6	7	6
TCGA-33-AASI	10	9	9	9
TCGA-56-8625	7	7	7	7
TCGA-34-2600	7	5	7	5
TCGA-60-2726	9	8	9	7
TCGA-77-8153	7	5	6	5
TCGA-66-2791	7	8	7	8
TCGA-68-7756	7	6	7	6
TCGA-94-7557	6	5	6	5

TCGA-56-A5DS	8	6	7	6
TCGA-22-4613	7	7	7	7
TCGA-77-8130	8	7	7	6
TCGA-21-1080	6	6	6	5
TCGA-98-A53I	8	8	8	7
TCGA-34-5236	7	5	6	5
TCGA-21-5782	8	7	8	6
TCGA-60-2708	6	6	6	6
TCGA-96-A4JK	8	7	8	7
TCGA-66-2788	7	7	7	7
TCGA-56-8624	8	6	7	6
TCGA-22-5473	7	7	6	6
TCGA-21-A5DI	7	6	7	5
TCGA-85-8049	7	7	7	7
TCGA-21-5783	8	6	7	6
TCGA-46-3765	8	7	7	6
TCGA-39-5021	8	7	7	7
TCGA-90-6837	7	6	6	6
TCGA-39-5011	7	8	7	7
TCGA-39-5019	8	7	7	7
TCGA-98-A539	7	6	6	5
TCGA-66-2781	8	7	8	6
TCGA-37-5819	8	6	7	6
TCGA-56-8201	6	7	7	7
TCGA-63-A5MB	7	7	7	6
TCGA-60-2722	7	7	6	6
TCGA-85-8048	8	8	8	8
TCGA-56-7223	6	4	5	4
TCGA-43-8115	7	7	7	7
TCGA-18-5592	8	7	8	7
TCGA-77-7337	7	6	7	6
TCGA-60-2719	7	6	7	6
TCGA-22-5478	7	5	6	5
TCGA-66-2757	8	7	7	6
TCGA-18-3406	9	8	9	8
TCGA-77-A5GB	8	7	8	7
TCGA-21-1070	7	8	7	8
TCGA-43-A475	7	9	7	9
TCGA-85-7698	7	8	7	8
TCGA-85-7843	7	6	6	5
TCGA-NC-A5HT	9	7	8	6
TCGA-58-8393	7	7	7	7
TCGA-66-2737	7	7	7	7
TCGA-LA-A7SW	6	5	6	5
TCGA-77-8007	6	7	6	7
TCGA-85-8354	7	6	7	6
TCGA-22-5474	8	9	8	9
TCGA-77-7140	6	5	5	5
TCGA-22-4601	8	7	8	7
TCGA-66-2794	8	9	8	9
TCGA-22-1017	7	7	7	7
TCGA-77-A5GA	7	7	7	6
TCGA-56-7222	8	6	8	6
TCGA-85-7699	7	7	7	7
TCGA-66-2758	7	7	7	7
TCGA-85-7950	8	8	8	8
TCGA-39-5034	8	7	7	7
TCGA-85-8052	7	6	7	6
TCGA-43-3394	7	7	7	6
TCGA-NK-A5CX	8	7	8	7
TCGA-39-5035	8	9	8	9
TCGA-43-6647	6	7	6	7
TCGA-18-4086	8	8	8	8
TCGA-NC-A5HF	6	5	6	4
TCGA-39-5029	8	6	7	6
TCGA-43-5668	7	8	7	8
TCGA-22-1012	7	6	7	6
TCGA-34-8454	8	7	8	7
TCGA-60-2709	7	8	7	8
TCGA-85-A512	7	6	7	6
TCGA-NC-A5HI	6	4	6	4
TCGA-18-3409	7	7	7	6
TCGA-56-8307	8	8	8	8
TCGA-85-8288	9	8	8	8
TCGA-18-3410	7	9	7	9
TCGA-22-1000	7	7	8	7

TCGA-66-2778	7	6	7	5
TCGA-34-5239	8	8	7	7
TCGA-34-8455	8	7	7	6
TCGA-66-2765	8	8	8	8
TCGA-85-8277	8	8	7	8
TCGA-92-8065	7	6	6	6
TCGA-46-3766	8	7	8	7
TCGA-77-8131	7	7	7	7
TCGA-94-A514	7	6	7	5
TCGA-18-3407	7	7	7	7
TCGA-77-8139	8	7	7	6
TCGA-21-1078	8	7	8	6
TCGA-18-3411	6	6	6	5
TCGA-66-2742	7	6	6	5
TCGA-56-1622	7	7	7	7
TCGA-77-A5G3	7	7	6	6
TCGA-22-5482	8	6	7	6
TCGA-NK-A7XE	8	7	8	6
TCGA-22-5489	8	8	8	8
TCGA-O2-A52W	7	5	6	5
TCGA-52-7812	8	9	8	8
TCGA-46-6025	7	6	6	6
TCGA-58-8391	7	6	6	5
TCGA-85-A50M	7	6	6	6
TCGA-18-3417	8	7	8	7
TCGA-60-2724	7	6	6	5
TCGA-94-A516	6	6	6	5
TCGA-43-8116	8	7	8	7
TCGA-34-5241	8	7	8	7
TCGA-77-7338	7	6	6	5
TCGA-56-7822	7	6	7	5
TCGA-85-A4JC	8	6	7	6
TCGA-66-2792	7	7	6	6
TCGA-98-A53A	7	6	7	6
TCGA-22-4594	8	7	7	7
TCGA-58-8386	7	7	6	6
TCGA-22-5481	8	8	8	8
TCGA-66-2754	7	5	6	5
TCGA-21-1082	8	7	8	6
TCGA-58-8392	8	7	7	6
TCGA-60-2713	7	7	7	7
TCGA-22-5479	7	7	7	7
TCGA-37-4133	8	8	7	8
TCGA-63-A5MU	7	6	7	6
TCGA-66-2769	7	7	7	7
TCGA-LA-A446	7	6	6	6
TCGA-66-2759	5	7	5	6
TCGA-22-4609	7	7	7	7
TCGA-66-2773	7	7	6	6
TCGA-66-2755	7	8	7	7
TCGA-77-8150	7	7	7	7
TCGA-37-A5EL	10	9	10	8
TCGA-77-8009	7	6	6	6
TCGA-33-AAS8	7	6	7	6
TCGA-58-A46N	6	6	6	6
TCGA-33-AASD	8	7	8	6
TCGA-63-A5MS	8	7	8	7
TCGA-43-A474	7	5	6	4
TCGA-43-6770	6	6	6	5
TCGA-22-4607	7	6	7	6
TCGA-58-A46K	8	9	8	8
TCGA-77-7465	7	7	7	7
TCGA-18-4721	7	8	7	8
TCGA-85-A4CL	7	6	7	6
TCGA-22-4604	7	7	7	7
TCGA-56-7730	7	6	7	6
TCGA-39-5039	8	7	8	6
TCGA-J1-A4AH	7	6	6	6
TCGA-92-8063	6	5	6	5
TCGA-46-3769	8	8	8	8
TCGA-43-8118	7	6	6	5
TCGA-NC-A5HO	7	5	6	5
TCGA-22-4605	6	5	6	5
TCGA-60-2714	7	8	7	8
TCGA-33-6738	8	6	7	6
TCGA-63-A5MV	6	6	6	6

TCGA-85-A4CN	8	7	7	7
TCGA-NC-A5HK	7	8	6	7
TCGA-43-3920	6	6	6	6
TCGA-21-1072	7	7	7	6
TCGA-98-A53B	7	6	7	6
TCGA-85-8072	8	8	8	8
TCGA-68-A59J	8	8	8	8
TCGA-66-2766	7	7	7	7
TCGA-NC-A5HR	8	7	7	7
TCGA-NC-A5HE	7	8	7	8
TCGA-98-A53D	7	7	7	7
TCGA-66-2783	7	7	7	7
TCGA-77-7138	8	6	7	6
TCGA-56-8629	7	6	7	6
TCGA-79-5596	7	6	7	6
TCGA-63-A5MJ	7	7	6	6
TCGA-56-6546	8	7	7	7
TCGA-51-4081	6	5	6	5
TCGA-34-5927	7	5	6	4
TCGA-85-8582	7	7	7	6
TCGA-77-8154	8	6	7	5
TCGA-77-6844	7	6	7	6
TCGA-85-8580	7	6	7	6
TCGA-56-A4ZJ	7	6	7	6
TCGA-21-1083	7	7	7	7
TCGA-46-3767	8	7	7	7
TCGA-56-5898	8	7	7	6
TCGA-68-7757	7	6	7	6
TCGA-56-A49D	8	7	7	7
TCGA-18-3412	8	7	7	6
TCGA-37-4132	9	8	9	9
TCGA-22-5483	7	6	7	6
TCGA-85-A4JB	7	5	6	5
TCGA-60-2725	7	7	7	7
TCGA-77-7463	6	6	6	5
TCGA-33-AASJ	8	8	8	8
TCGA-43-7657	9	7	8	7
TCGA-22-A5C4	6	4	5	4
TCGA-90-7769	6	6	6	5
TCGA-21-1077	7	7	7	6
TCGA-NC-A5HQ	7	7	7	7
TCGA-60-2696	7	6	7	6
TCGA-22-4591	8	6	7	6
TCGA-77-8143	6	6	6	5
TCGA-NK-A5CR	6	5	5	5
TCGA-56-7823	7	6	6	5
TCGA-63-A5MN	8	9	8	9
TCGA-52-7622	7	8	7	8