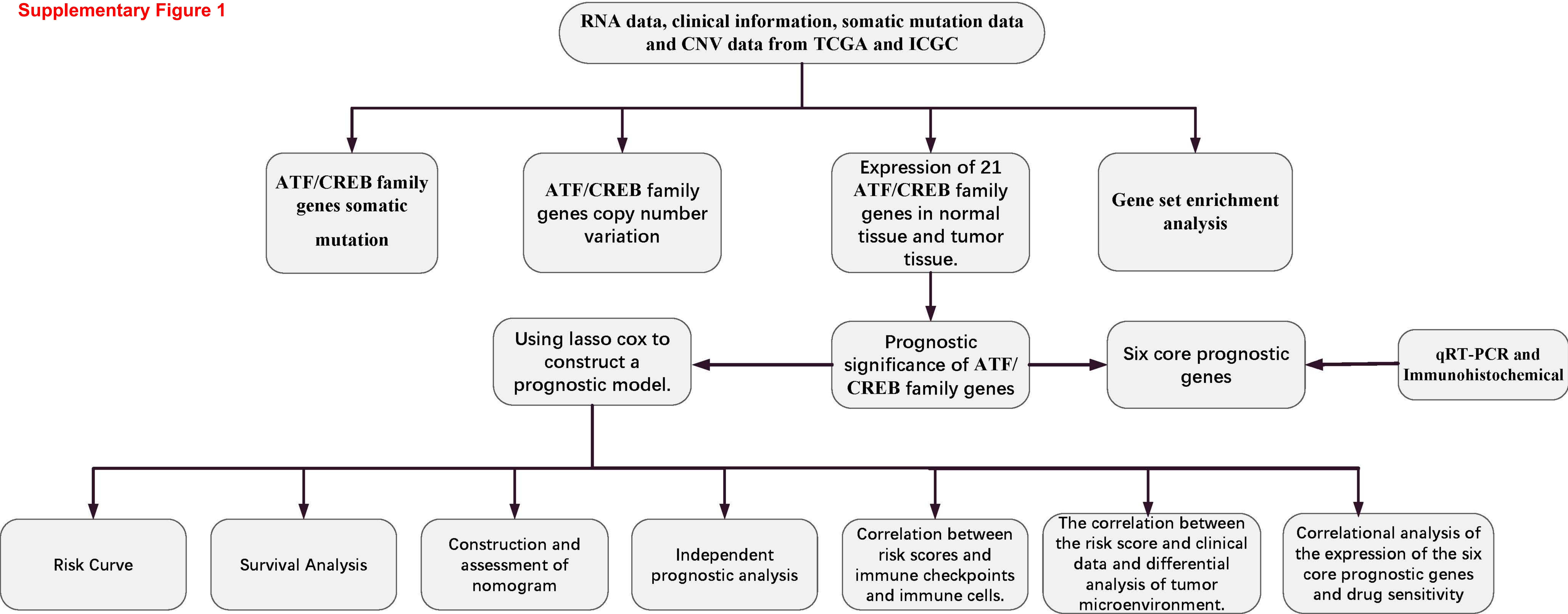


Supplementary Figure 1



Supplementary Figure 1: Supplementary Figure 1 shows the flow chart of our study design.



**Supplementary Table 1: Supplementary Table 1 shows the risk score table from the TCGA database.**

id	futime	fustat	ATF1	ATF4	BATF	CREB1	CREB3	CREB3L1
TCGA-DD	1.665753	0	1.66667	6.127985	2.580213	1.151921	3.898825	0.228809
TCGA-CC-	0.821918	1	2.80523	6.876709	4.667978	2.18624	4.40843	6.380402
TCGA-DD	2.235616	0	2.226848	5.614671	1.274129	1.532103	2.983724	0.349161
TCGA-G3-	1.128767	0	2.901572	5.630769	2.994865	1.426651	4.026529	1.123561
TCGA-UB-	2.323288	0	3.318261	7.919102	3.799556	2.009484	4.775465	2.94267
TCGA-UB-	0.586301	1	2.506939	7.511773	2.447563	1.410332	4.951334	1.773968
TCGA-BC-	0.419178	1	3.252644	7.665592	2.45995	2.246467	4.459674	1.705897
TCGA-BC-	2.293151	1	2.848547	6.963305	1.374098	1.786258	3.371044	0.18893
TCGA-BC-	1.49863	1	1.725331	5.583588	0.35694	1.408108	4.086143	0.185172
TCGA-FV-	0.676712	1	2.738122	6.815074	1.953469	1.739179	3.481809	0.943682
TCGA-CC-	0.6	0	1.664198	7.222996	1.637706	1.449961	4.017657	0.137839
TCGA-WC	0.082192	0	2.7196	8.216275	3.502304	1.502566	4.304141	0.997184
TCGA-ED-	1.112329	0	2.643614	7.386402	1.992069	1.932945	3.683111	2.223515
TCGA-DD	1.528767	1	2.510085	6.508323	4.741424	1.621031	4.06197	0.451682
TCGA-DD	0.032877	1	1.98615	6.907857	1.222209	1.094358	4.202189	0.54326
TCGA-MR	0.90411	0	2.332024	6.999742	2.143369	1.911298	4.230974	3.325921
TCGA-QA	0.257534	0	2.5626	6.45423	0.953205	1.804242	4.953233	0.301285
TCGA-CC-	0.383562	1	2.794245	7.743308	1.633717	1.828411	4.420602	0.377188
TCGA-FV-	6.810959	1	1.449406	6.806446	3.695692	1.033285	5.438898	0.685913
TCGA-DD	2.542466	0	3.127269	6.936642	1.508788	1.812304	4.389816	0.498797
TCGA-CC-	0.353425	1	3.123132	7.350757	1.320377	2.07686	3.269593	3.591629
TCGA-EP-	1.632877	1	2.287505	6.558751	0.9343	1.54668	4.357379	0.105506
TCGA-G3-	4.873973	0	2.315629	7.797721	2.924218	1.443307	5.4688	2.132106
TCGA-DD	1.545205	0	2.835876	6.879616	2.490921	2.158946	4.446716	2.119444
TCGA-G3-	1.60274	0	3.014873	5.901692	3.413001	1.390424	3.575978	0.297615
TCGA-DD	6.30411	0	3.210053	6.791747	0.565003	1.588683	4.080315	0.189136
TCGA-5C-	0.882192	0	2.39358	6.94805	1.189938	1.983739	4.606059	1.407529
TCGA-FV-	5.073973	1	2.813286	7.386186	1.411793	2.075549	4.230798	0.14381
TCGA-DD	5.556164	0	2.096597	6.614388	1.317801	1.47765	3.932319	0.164258
TCGA-DD	1.021918	1	2.638023	6.727988	1.922423	1.611435	4.932119	4.808447
TCGA-G3-	1.424658	0	2.113402	6.157318	1.729444	1.406596	4.108132	1.100304
TCGA-MI-	1.389041	0	1.973425	6.66077	1.97817	1.277815	4.014329	0.91287
TCGA-DD	4.273973	1	2.217763	5.865508	0.570027	1.217213	3.426553	0.543166
TCGA-CC-	0.282192	1	2.806868	7.849611	4.858574	1.50797	4.465114	1.683358
TCGA-2Y-	2.073973	1	2.686264	7.355773	3.46136	1.995584	4.065825	1.499083
TCGA-ES-	1.2	1	1.58482	6.143285	1.412388	0.777164	4.306688	0.733553
TCGA-DD	5.520548	0	2.733956	6.711944	1.509625	1.860826	3.250552	1.088265
TCGA-G3-	0.493151	0	2.12308	6.176179	3.514335	1.240661	3.612388	1.664183
TCGA-DD	6.726027	0	2.248029	7.682604	2.461284	1.477554	5.018967	2.122136
TCGA-DD	0.468493	1	2.245392	7.684842	2.989307	1.367584	4.224206	0.628562
TCGA-DD	5.526027	0	2.15073	4.530241	0.420713	1.470264	2.836909	0.527007
TCGA-DD	1.841096	0	2.224133	7.812504	0.9966	1.403249	3.695395	0.0802
TCGA-ED-	2.243836	0	2.335355	6.185404	1.365226	1.63598	3.448402	1.2415
TCGA-HP-	0.249315	1	2.519497	6.482892	2.273671	1.669262	3.909311	1.177674
TCGA-DD	6.032877	0	1.267769	7.011612	1.292636	1.353868	3.617114	0.060798
TCGA-DD	6.150685	0	1.933623	5.940432	1.250253	1.585633	3.647708	0.859443
TCGA-BC-	0.249315	1	3.176114	7.482791	4.236382	2.046966	4.474908	4.140478
TCGA-LG-	1.164384	0	3.292353	7.443821	0.852925	1.601168	4.243998	0.820649
TCGA-DD	1.813699	0	2.680553	6.308785	0.829779	1.784955	3.180745	0.907625
TCGA-DD	3.40274	0	3.154403	7.584672	2.955095	1.998425	4.125457	0.109477
TCGA-DD	5.205479	0	2.689697	6.802305	2.778203	1.755306	3.177923	0.407638
TCGA-BC-	3.70137	0	3.079295	7.076855	2.190295	1.865233	4.594112	2.272964
TCGA-DD	1.079452	1	3.091063	7.366301	1.87065	2.15794	3.840024	0.560153
TCGA-DD	1.742466	0	2.57524	6.849555	0.447375	1.911959	3.889394	0.201956
TCGA-KR-	2.482192	0	2.038675	7.952324	3.233404	1.474306	4.954691	0.662736
TCGA-ED-	0.016438	0	3.369119	7.515976	3.206958	2.145008	5.818129	1.969386
TCGA-DD	2.873973	0	1.68332	6.804962	2.841667	1.317103	3.687007	1.669708

TCGA-BW	0.054795	0	2.742318	7.253075	1.288514	1.553137	4.076758	0.3927
TCGA-DD	2.265753	1	3.041989	6.003696	0.355543	1.78551	3.189296	0.380377
TCGA-GJ-	0.183562	1	2.824897	7.136332	2.68192	1.627732	3.994801	0.761601
TCGA-DD	6.616438	0	3.212359	5.856586	2.0312	1.788509	3.521431	0.162805
TCGA-UB-	0.142466	1	2.875857	6.78647	2.658559	1.438054	4.138863	0.832499
TCGA-ES-	1.884932	1	1.088402	6.864463	0.741632	1.108778	3.489766	0.204202
TCGA-G3-	1.627397	0	2.356467	5.600966	5.068348	1.10736	3.612425	0.339576
TCGA-FV-	0.531507	1	2.605312	7.856924	0.957092	1.625752	4.054759	0.101806
TCGA-2Y-	2.323288	1	2.333267	6.04715	0.867394	1.5791	3.323287	0.696759
TCGA-4R-	0.717808	1	2.799513	7.346624	2.330575	1.641461	4.394566	0.339678
TCGA-DD	2.19726	1	2.870523	6.292295	1.164201	1.797016	3.859668	0.232132
TCGA-RC-	0.041096	0	2.083706	6.590668	0.911587	1.297269	4.430832	3.541526
TCGA-2Y-	10.06849	0	2.308479	6.160458	1.873096	1.564881	4.690261	0.22824
TCGA-DD	0.038356	1	2.736112	5.511664	0.543486	1.775018	2.410587	0.481843
TCGA-G3-	2.356164	0	2.120442	6.88339	1.835184	1.233384	3.755791	1.151058
TCGA-5R-	1.424658	0	2.944999	6.762103	0.839633	1.837696	4.079512	0.130984
TCGA-ED-	0.153425	1	2.590356	7.892882	1.437298	1.785888	4.018726	2.370661
TCGA-DD	3.372603	0	2.703021	6.289188	1.092187	1.898073	3.84578	0.061579
TCGA-BC-	3.89863	1	2.338466	7.51089	1.425283	1.39793	3.741508	1.516095
TCGA-DD	1.309589	0	1.916569	6.448662	1.001796	0.82823	3.05554	0.808556
TCGA-WX	1.684932	0	2.637205	7.73921	2.013665	1.969737	4.476377	1.477421
TCGA-PD-	1.750685	1	2.858758	7.355896	1.881353	1.790565	4.523294	1.562073
TCGA-YA-	1.128767	1	2.88235	7.743103	6.071345	2.164307	4.943838	1.093153
TCGA-5R-	1.230137	0	2.967441	6.714441	1.428664	2.064244	4.144753	3.380874
TCGA-DD	0.534247	1	2.810907	7.711563	1.197911	1.998331	4.98358	3.180571
TCGA-CC-	0.764384	1	2.581277	6.747718	1.424528	1.965371	4.788371	1.472139
TCGA-G3-	1.30411	0	1.574669	6.846532	0.876666	0.972027	4.077043	0.190644
TCGA-DD	2.090411	0	2.780827	8.04682	1.215249	1.563387	2.920588	0.627305
TCGA-DD	2.972603	0	1.926487	7.196439	2.483522	1.424217	3.937031	0.216037
TCGA-DD	2.463014	1	2.479602	7.054999	0.462661	1.963683	4.731367	1.240252
TCGA-DD	4.194521	0	2.223146	6.137106	0.990769	1.304179	3.829865	0.120847
TCGA-UB-	0.860274	0	2.464948	6.899525	2.212114	1.719151	3.546841	0.638035
TCGA-DD	1.241096	0	1.719581	7.803315	3.075334	1.254365	4.693517	0.299386
TCGA-DD	5.39726	0	2.472777	7.058282	0.90411	1.440361	3.297906	0.23544
TCGA-FV-	1.00274	1	2.704261	6.842472	3.62955	1.807172	4.121738	4.124931
TCGA-DD	6.728767	1	3.101833	6.818327	2.352681	2.038533	4.124751	2.349708
TCGA-MI-	2.046575	0	2.753533	6.760323	2.534624	1.355727	3.696865	0.424438
TCGA-UB-	1.369863	0	3.103185	6.808189	0.541342	2.039055	3.965543	0.285039
TCGA-FV-	0.032877	0	3.010369	7.036737	3.302797	2.068345	4.084557	0.115605
TCGA-DD	1.969863	0	2.454067	6.981882	0.36466	1.290456	4.148004	2.770009
TCGA-DD	3.684932	0	2.735471	7.854353	2.185565	1.257473	4.439512	2.560081
TCGA-K7-	1.421918	0	2.513816	5.954605	3.781381	2.042997	4.038482	0.400882
TCGA-XR-	2.821918	0	2.693436	6.002885	2.814149	1.571441	4.084366	1.696602
TCGA-DD	3.972603	0	2.359272	7.012953	0.543907	1.253468	4.368758	2.187475
TCGA-KR-	2.605479	0	2.006936	7.784626	4.301482	1.240334	4.533028	0.426401
TCGA-G3-	1.238356	1	3.278337	7.575466	2.665213	1.846486	4.972187	2.690468
TCGA-K7-	0.983562	0	3.365641	6.909097	1.905498	2.232457	4.497779	2.60952
TCGA-BC-	0.021918	0	2.297952	7.130464	0.68989	1.299467	4.139829	0.209866
TCGA-BC-	0.093151	1	3.077932	7.132008	0.252661	1.618481	4.048264	0.099138
TCGA-UB-	0.89589	0	2.932579	6.54441	1.234658	2.010665	3.668952	1.395841
TCGA-DD	2.219178	0	2.612938	5.953823	0.963782	1.359286	3.53476	0.274586
TCGA-ZP-	2.989041	0	2.81235	6.157348	1.474807	1.471647	3.105003	1.440491
TCGA-DD	3.758904	1	2.416901	7.218104	3.05399	1.67792	4.239315	1.020328
TCGA-CC-	0.761644	1	2.010231	7.194972	5.951049	1.207173	3.265663	0.139505
TCGA-RC	TCGA-	0	1.971787	5.721139	0.652238	1.312522	3.636398	0.108063
0.09863	TCGA-DD	0	2.758538	6.719274	1.322797	1.839474	3.948137	1.476089
1.747945		1	2.923347	7.182799	3.969142	1.63711	3.860653	0.212669
		0	2.495834	6.385861	1.493039	1.289737	3.845227	0.411733

Supplementary table 1

TCGA-DD	0.315068	1	2.13562	7.277544	2.728679	1.170837	4.56736	0.102615
TCGA-DD	3.90137	0	2.550937	6.431283	0.917937	1.720364	3.995324	0.162203
TCGA-MI-	1.726027	0	2.357615	7.045745	1.556924	1.708315	3.798144	0.592604
TCGA-FV-	2.323288	0	2.862584	7.9286	0.618467	1.68164	5.389446	1.472369
TCGA-2Y-	3.367123	1	1.609754	7.236862	2.320938	0.885622	3.719272	0.154812
TCGA-CC-	0.942466	1	3.243427	6.817748	0.460577	1.73166	3.43961	1.003027
TCGA-DD	1.80274	0	1.93979	6.797826	1.366064	1.341951	3.970102	2.02346
TCGA-BC-	0.843836	1	2.65016	7.108272	0.601451	1.704824	3.411238	1.578924
TCGA-G3-	1.70137	0	2.898759	7.108417	0.847721	1.465662	3.183439	0.267227
TCGA-CC-	0.276712	1	3.204177	7.16434	3.641142	2.381901	4.837998	2.193763
TCGA-2Y-	6.936986	1	2.53463	6.539257	1.593618	1.773584	3.1964	0.407583
TCGA-ED-	1.169863	0	2.190111	6.254928	1.463032	1.277609	3.967021	0.837441
TCGA-CC-	0.950685	1	2.235516	8.064841	2.279125	1.579962	4.192266	0.921541
TCGA-DD	7.473973	0	2.414337	6.915795	3.472239	1.610201	4.203564	0.729092
TCGA-BD-	1.120548	0	2.449094	6.574811	3.090652	1.830004	4.449747	1.182259
TCGA-DD	1.761644	1	2.138705	7.032793	6.197438	1.328956	4.158405	0.211164
TCGA-DD	0.638356	1	2.267176	7.784074	1.39053	1.216629	4.535276	0.074422
TCGA-DD	0.024658	1	2.549908	7.437673	3.187141	1.727594	4.426074	2.473746
TCGA-DD	0.950685	0	1.593974	6.74117	1.75056	1.087219	4.053766	1.033174
TCGA-CC-	0.684932	0	1.813709	6.89979	5.18542	1.024075	3.467112	2.099705
TCGA-DD	1.164384	1	3.105231	7.400266	1.650472	2.161996	3.491616	0.539004
TCGA-ZS-	6.608219	0	3.101991	6.204052	1.008773	2.063832	3.987272	0.224771
TCGA-NI-	2.189041	0	2.627124	6.376392	1.261019	1.214744	3.405941	1.3941
TCGA-DD	1.646575	1	2.142792	7.165483	0.788647	1.128858	4.377653	0.157933
TCGA-G3-	1.224658	0	1.674746	6.039673	0.877082	1.44124	3.325259	0.101207
TCGA-MI-	1.912329	0	2.309639	6.201263	0.50025	1.355801	3.775545	0.399604
TCGA-CC-	0.717808	1	3.717002	5.596953	0.879083	2.075364	3.702731	0.078872
TCGA-G3-	1.912329	0	3.07841	7.24434	2.290129	1.942127	4.361654	0.673952
TCGA-ZS-	3.4	0	2.234546	6.174406	0.232958	1.173161	3.615283	0.281412
TCGA-DD	0.775342	1	2.755037	5.75228	0.395874	1.3923	4.060242	0.190326
TCGA-RC-	1.610959	0	2.501529	5.466684	3.542149	1.324795	3.08948	0.479472
TCGA-DD	2.460274	0	1.620558	7.947931	3.902208	0.945156	3.909379	0.079136
TCGA-CC-	0.745205	1	2.981739	7.115293	1.301436	1.878982	3.760733	0.745085
TCGA-DD	0.468493	1	2.884438	7.741999	2.552489	2.136228	4.191292	3.413709
TCGA-DD	1.465753	1	1.852997	7.275497	0.874171	0.891179	3.813184	0.640961
TCGA-2Y-	1.734247	1	2.684654	6.338601	2.252524	1.617651	3.71823	0.94385
TCGA-DD	2.923288	0	2.681764	6.447091	2.139246	1.775303	3.651532	0.624725
TCGA-DD	7.523288	0	2.625165	6.683606	2.002768	2.089244	3.856451	2.434699
TCGA-2Y-	3.2	0	2.447258	7.084452	1.131405	1.592713	3.83221	0.070257
TCGA-RC-	1.753425	0	2.518539	7.154175	1.899578	1.261382	4.191018	1.499803
TCGA-G3-	1.139726	1	2.448003	7.657255	3.759626	1.574159	4.259693	0.096037
TCGA-BC-	3.827397	1	2.99411	6.874008	1.940442	2.038583	5.287468	0.367079
TCGA-DD	5.082192	0	2.27265	5.835614	0.595384	1.777417	3.354203	0.151305
TCGA-2Y-	0.978082	0	2.527513	6.86105	1.561854	1.567138	3.620375	1.318116
TCGA-2Y-	3.482192	1	2.394727	6.519538	2.624031	1.568756	3.61686	0.736073
TCGA-DD	1.89863	0	3.172479	7.30572	0.549149	1.689944	3.292062	0.226145
TCGA-DD	6.964384	1	2.312878	5.681541	1.301891	1.351268	4.012455	0.904101
TCGA-XR-	1.89863	1	2.681189	6.931586	0.803576	1.672544	3.228354	0.321363
TCGA-DD	1.517808	0	1.98478	7.712053	1.776365	1.152931	3.165032	0.107268
TCGA-DD	1.512329	0	2.364777	6.72573	1.005801	1.509286	3.561549	0.178846
TCGA-2Y-	0.712329	0	2.409337	6.394032	2.279636	1.359314	3.721155	0.645238
TCGA-BD-	3.734247	0	2.250606	6.652423	1.840336	1.532884	4.045285	0.240065
TCGA-DD	2.550685	1	2.116805	6.703648	2.354463	1.690691	4.329311	1.368754
TCGA-KR-	2.271233	0	2.096607	6.5444	1.761805	1.335576	4.824354	0.799321
TCGA-ED-	0.810959	1	3.162154	6.67251	0.285008	2.002353	4.381981	0.449518
TCGA-DD	1.550685	0	1.726086	6.134934	0.779867	1.238163	3.230977	0.249567
TCGA-G3-	0.178082	1	3.022805	7.782264	2.086824	2.009242	5.347101	0.698734
TCGA-ED-	0.016438	0	3.326509	6.976131	3.176133	2.679175	4.338561	5.542564

Supplementary table 1

TCGA-DD	6.347945	0	2.956237	6.600933	3.272173	2.145375	3.247277	1.489025
TCGA-EP-	0.994521	0	2.866975	7.110421	4.040758	1.587474	4.797135	0.514066
TCGA-FV-	0.027397	0	2.122546	6.190586	0.359503	1.537645	3.690804	0.157999
TCGA-CC-	0.863014	1	2.812852	7.976346	0.885698	1.971459	4.415031	0.822224
TCGA-CC-	1.778082	1	2.046392	6.941422	0.676732	1.404793	3.602107	0.626254
TCGA-ZS-	3.79726	1	2.295464	7.284551	1.727687	1.322704	4.337995	0.931713
TCGA-G3-	1.731507	0	3.101126	7.591542	2.928659	2.285813	4.695143	0.787833
TCGA-DD	6.30411	0	2.709323	6.241619	3.190307	1.37689	3.392897	0.28027
TCGA-EP-	1.561644	0	3.483132	6.17044	0.469984	1.703137	3.438265	0.301479
TCGA-DD	2.753425	1	3.06441	7.861236	1.661711	1.989829	4.409848	0.182155
TCGA-G3-	1.019178	0	2.723613	6.027421	1.364164	1.347515	3.711633	0.15904
TCGA-DD	1.520548	0	3.186904	6.89817	0.249276	1.691443	4.390778	1.27828
TCGA-CC-	0.353425	1	3.684863	6.840306	1.351469	2.644587	4.259235	4.943169
TCGA-DD	1.254795	0	2.769752	7.062273	2.399949	1.903648	3.975965	0.571375
TCGA-BC-	1.060274	0	2.478541	6.470252	4.809362	1.052478	4.012495	0.63168
TCGA-5C-	0.89863	0	3.227276	7.492456	1.253644	1.591144	4.143657	1.323876
TCGA-DD	0.956164	1	2.98162	6.489478	3.60162	1.804419	3.949746	0.345085
TCGA-BC-	5.79726	1	2.359219	7.25632	2.4966	1.292794	4.058705	1.275728
TCGA-GJ-	2.408219	0	2.725758	6.999694	4.032541	2.156778	4.400309	1.520386
TCGA-G3-	4.482192	0	2.577242	7.105437	0.414032	1.848843	4.05859	0.133788
TCGA-DD	4.687671	0	2.035153	5.919978	3.214436	1.23251	3.128473	0.782576
TCGA-BC-	3.109589	1	2.708333	6.657884	0.779148	2.281907	5.222344	1.156206
TCGA-2Y-	5.312329	0	2.530023	6.677696	0.604837	1.433529	3.51307	0.500666
TCGA-ZP-	2.980822	1	2.700869	6.815382	0.916403	1.573654	4.465763	0.891818
TCGA-DD	6.643836	0	2.95765	6.296956	1.623756	1.245243	3.937608	2.860382
TCGA-2Y-	4.449315	1	2.404391	6.006321	2.056424	1.631862	3.485745	0.464163
TCGA-CC-	0.994521	0	2.352207	7.645735	2.031201	1.33928	4.139124	3.814337
TCGA-DD	1.994521	0	2.67115	6.883765	1.518486	1.456141	3.776874	0.16239
TCGA-DD	3.136986	0	2.555197	6.334425	0.333944	1.264921	3.351589	0.251149
TCGA-FV-	1.591781	1	2.716425	7.040071	4.163484	1.649657	4.320179	0.594421
TCGA-G3-	0.989041	0	3.529311	7.723019	1.553475	1.840901	5.049569	3.777841
TCGA-2Y-	3.978082	0	2.451178	6.394985	0.916872	1.211885	4.193186	0.21431
TCGA-3K-	1.084932	0	2.029748	6.803945	1.179137	1.451271	3.906291	0.178237
TCGA-CC-	0.265753	1	3.217126	7.89296	2.425435	2.647223	4.381222	1.996885
TCGA-ZP-	2.09589	1	3.258641	7.611954	2.665118	2.13152	4.508126	0.875124
TCGA-2Y-	1.520548	1	2.824286	6.770179	1.224086	2.073917	4.038503	1.270065
TCGA-G3-	4.254795	0	2.881125	7.099811	1.45096	1.744815	5.115054	1.574481
TCGA-DD	1.575342	0	1.942532	7.064327	1.76159	1.382574	4.292489	0.452441
TCGA-RG-	3.008219	0	2.58126	6.92175	3.202802	1.698715	3.99354	0.264545
TCGA-DD	1.043836	1	1.856875	7.073244	1.356813	0.973634	4.096967	1.099777
TCGA-DD	3.339726	0	2.092427	7.614748	0.559539	1.893979	4.136007	1.06554
TCGA-5R-	0.126027	1	2.377645	7.022407	2.698497	1.503194	3.998152	1.51688
TCGA-EP-	0.830137	0	2.086659	7.008904	2.553622	1.244177	3.915549	0.704098
TCGA-DD	9.528767	0	1.181938	7.997488	1.939127	0.806587	5.155265	0.500528
TCGA-G3-	0.073973	1	3.073028	6.240168	0.542243	1.624445	3.913671	0.425528
TCGA-ED-	2.493151	0	2.817244	6.817693	1.37588	1.563877	5.05246	0.419682
TCGA-DD	1.920548	0	2.707987	6.273916	0.872577	1.922644	3.189102	0.388557
TCGA-MR	0.627397	0	2.019204	6.136892	0.512981	1.313623	3.775106	0.170197
TCGA-DD	4.293151	0	2.394379	6.556043	1.028377	1.442297	3.800715	0.827327
TCGA-WX	1.523288	1	2.237283	8.047062	4.214944	0.709974	3.780237	0.273973
TCGA-DD	1.676712	1	2.947134	6.482256	4.122868	1.106302	3.535362	0.19577
TCGA-DD	1.194521	0	1.772234	6.694614	1.300711	1.38854	3.856065	0.462938
TCGA-CC-	0.821918	1	2.294923	7.789615	0.7892	2.512103	4.181966	0.447467
TCGA-DD	1.136986	1	3.437404	7.118437	4.336016	1.572172	4.530978	0.152512
TCGA-WQ	1.082192	0	1.777438	7.218876	1.293231	1.155629	4.035003	1.07739
TCGA-DD	0.216438	0	2.981968	6.323661	0.325177	1.654386	4.029783	0.340309
TCGA-DD	0.375342	0	3.382485	6.311347	0.595359	1.609954	3.968286	0.12646
TCGA-DD	8.926027	1	1.272113	6.498097	2.532922	1.21808	4.6199	1.647427

Supplementary table 1



TCGA-DD	3.147945	1	3.085174	6.785116	3.595379	2.337229	4.757756	4.217943
TCGA-5C-	0.054795	0	2.140375	7.133671	3.599754	1.506349	5.552667	0.90063
TCGA-HP-	2.060274	1	2.343505	6.485067	1.321092	1.703726	3.898509	0.693136
TCGA-T1-	0.063014	0	2.255293	5.676405	4.276645	1.214723	3.523512	1.070431
TCGA-XR-	3.668493	0	2.905612	6.970183	0.730473	1.679889	3.654175	0.83765
TCGA-DD	0.024658	0	2.559319	6.915833	2.231044	1.595026	4.23666	0.147989
TCGA-MI-	0.79726	0	2.442491	7.283148	1.789707	1.002237	3.918497	0.1796
TCGA-DD	1.136986	0	2.509998	7.455687	1.661307	1.748409	4.06203	0.378918
TCGA-DD	4.279452	0	1.85069	6.38952	1.37126	1.32785	3.939692	0.36434
TCGA-DD	0.120548	0	3.567482	5.722019	0.440375	1.844813	4.071967	0.138766
TCGA-BC-	4.082192	1	2.90193	6.340001	2.74027	2.222575	3.84018	2.357522
TCGA-BC-	2.326027	0	3.08069	7.275712	2.414916	2.372056	4.792683	1.015315
TCGA-XR-	2.460274	0	3.603445	6.756753	1.123509	1.80403	4.324822	0.767819
TCGA-RC-	0.024658	0	2.616099	7.309123	1.646842	1.464086	5.230422	1.181037
TCGA-BC-	1.216438	0	2.244718	7.70055	2.391103	1.374062	4.346355	1.247478
TCGA-DD	0.043836	1	3.225516	6.296492	1.437755	1.713013	4.029289	0.231536
TCGA-DD	2.920548	0	1.755761	6.92243	1.540289	1.174184	4.331839	0.103458
TCGA-2Y-	1.909589	0	2.059522	6.624596	0.818008	1.315766	3.921306	0.191999
TCGA-ED-	2.339726	0	3.809816	7.200236	4.281446	2.91861	4.487631	1.029401
TCGA-DD	5.139726	0	1.773208	6.680164	1.081005	1.218299	4.379954	0.819152
TCGA-G3-	1.794521	0	2.525108	7.11632	0.792078	1.324964	3.883998	0.327486
TCGA-DD	6.569863	0	2.288659	5.6655	0.671593	1.520599	4.251395	0.689894
TCGA-DD	4.641096	1	2.144563	7.382992	1.450659	1.46351	4.373462	1.057408
TCGA-EP-	1.717808	1	3.007757	7.126809	2.435638	1.314707	5.119707	0.349992
TCGA-DD	1.649315	0	2.689696	7.210984	3.586225	1.760284	5.124681	6.370839
TCGA-DD	3.547945	0	2.511424	6.110486	1.002781	1.690834	3.494096	0.968557
TCGA-DD	4.942466	0	2.162268	6.063633	0.309372	1.661021	3.640316	0.268552
TCGA-BD-	3.054795	0	2.521722	7.142636	1.835684	1.401631	3.973617	1.507828
TCGA-GJ-	0.084932	1	3.21348	6.570589	1.547044	1.789277	4.294593	0.426615
TCGA-2Y-	1.983562	1	2.89666	7.128208	1.717655	2.07722	3.652076	0.689856
TCGA-BC-	1.539726	0	3.343244	6.382046	2.291174	2.337715	4.141937	0.164121
TCGA-CC-	0.679452	0	2.961496	7.71262	1.739375	1.721456	3.985338	0.299692
TCGA-CC-	0.832877	1	3.312386	7.995915	5.373938	1.640703	4.576824	0.381234
TCGA-DD	0.610959	1	2.231051	6.666125	1.098874	1.445512	3.837372	0.681206
TCGA-DD	6.367123	0	2.463931	7.833569	3.679434	1.697189	4.387811	0.567654
TCGA-FV-	0.00274	0	1.441198	6.854481	2.659937	1.093058	4.502642	1.319604
TCGA-DD	4.09589	0	2.998029	7.39166	0.664008	2.441215	4.067263	0.788921
TCGA-DD	2.147945	0	2.289436	6.789532	2.575477	1.454904	3.844286	0.402988
TCGA-DD	1.808219	1	2.876078	6.020293	0.183187	1.993932	4.354737	0.965902
TCGA-DD	1.572603	0	2.659646	5.722539	0.670958	1.714869	3.38013	0.71885
TCGA-DD	0.465753	0	2.57855	6.755194	0.767267	1.360646	4.111913	0.137748
TCGA-DD	4.616438	1	1.959594	7.101241	3.772914	1.453589	4.597545	0.624611
TCGA-G3-	2.038356	0	2.209188	5.984011	0.57784	1.213918	3.645003	0.175507
TCGA-DD	4.194521	0	2.307357	5.921693	0.189539	1.969619	3.819581	0.366562
TCGA-CC-	0.279452	1	3.079519	5.919287	1.359235	2.023082	4.800334	0.628061
TCGA-G3-	0.989041	0	1.778644	7.159464	1.033263	1.155183	4.541221	0.514049
TCGA-G3-	1.315068	0	1.899679	6.873988	1.79297	1.061003	3.966087	0.476949
TCGA-RC-	1.293151	0	2.170411	6.185768	0.493458	2.187155	3.140327	0.411394
TCGA-DD	4.432877	0	1.853182	7.385526	4.934255	1.207341	5.016408	2.65494
TCGA-DD	2.512329	0	3.426615	8.108597	3.186558	2.006722	4.623758	1.615194
TCGA-WX	2.071233	0	2.426033	6.951998	0.494269	1.433329	3.352219	0.297168
TCGA-2Y-	4.742466	0	3.115436	7.96972	1.534683	2.037524	4.339038	0.939003
TCGA-DD	4.473973	0	2.655441	6.638019	0.495672	1.577437	3.806192	0.170966
TCGA-ED-	1.117808	0	3.043976	7.234294	1.109526	1.989683	5.164051	1.372654
TCGA-DD	9.063014	0	2.123548	5.638042	1.599041	1.026958	3.589502	0.207758
TCGA-G3-	1.838356	0	2.517093	5.865426	0.206199	1.538785	3.030058	0.206688
TCGA-FV-	1.99726	0	2.525939	7.209264	5.342271	1.445769	4.047524	0.52565
TCGA-ZP-	1.082192	0	3.677133	6.501094	0.594269	1.623635	3.663707	0.129846

Supplementary table 1

TCGA-DD	0.386301	0	1.81349	6.973293	0.35155	1.280718	3.639925	0.090626
TCGA-DD	1.284932	1	1.953207	6.810775	2.130007	1.285942	4.143898	0.109688
TCGA-G3-	2.10411	1	2.688763	5.527532	0.204747	1.652635	4.229645	0.210949
TCGA-ED-	1.068493	0	2.049734	6.883144	0.618213	1.628834	4.15289	0.546269
TCGA-EP-	0.052055	1	2.697348	6.113752	3.542924	1.594378	3.408416	0.383053
TCGA-BC-	2.109589	1	2.6131	6.46807	0.858408	1.63132	3.577205	1.010336
TCGA-CC-	1	0	3.255583	6.887171	0.515632	1.717983	3.582685	0.216405
TCGA-DD	0.030137	1	2.437754	5.526448	1.591657	1.140321	3.454527	0.190752
TCGA-DD	0.293151	1	2.353099	7.191544	4.969552	1.683845	4.359299	1.080078
TCGA-DD	4.443836	1	2.589351	6.408461	1.924858	1.316602	3.331151	0.474744
TCGA-CC-	0.819178	1	2.114837	7.676898	1.772373	1.55473	4.296846	2.229299
TCGA-DD	1.978082	0	2.163816	7.011342	2.601426	1.18773	3.71323	0.311973
TCGA-DD	7.539726	0	2.678138	6.955095	0.927715	1.011703	3.859096	0.211395
TCGA-G3-	0.969863	0	2.285108	7.533808	1.132609	1.16367	4.34662	0.206631
TCGA-G3-	1.843836	0	2.451212	6.556505	1.210427	1.357442	4.003834	0.533329
TCGA-CC-	0.238356	1	3.103933	6.806183	1.674987	2.527089	5.185893	2.328694
TCGA-CC-	1.046575	0	3.130345	8.116474	3.020576	2.292702	4.47565	5.089502
TCGA-DD	3.315068	1	2.128661	6.211361	0.69608	1.412693	3.594026	0.244151
TCGA-DD	8.561644	1	2.161286	6.668234	0.592795	1.145535	4.306416	0.298182
TCGA-NI-	4.906849	1	2.142957	6.136004	0.473006	1.246182	3.359938	0.202649
TCGA-DD	2.580822	0	3.712111	5.978111	3.500317	1.547544	3.015444	0.262834
TCGA-DD	2.972603	0	2.47327	7.304452	2.543163	1.565115	4.92606	1.355756
TCGA-DD	2.761644	0	2.969736	7.376494	1.568143	2.645218	5.483441	2.583605
TCGA-BC-	2.293151	1	2.701885	6.596699	0.700313	1.699306	3.433187	0.894051
TCGA-RC-	1.282192	0	1.79138	7.688034	0.574829	1.558067	4.842571	0.99329
TCGA-WJ-	0.945205	0	2.959447	6.824741	1.063766	1.983609	4.14659	0.09962
TCGA-DD	1.123288	1	3.155827	7.835856	1.063904	2.489631	4.320044	1.01483
TCGA-CC-	0.594521	1	2.85005	6.891583	2.569786	1.761182	3.412829	0.638344
TCGA-DD	4.994521	0	2.356143	7.163887	1.120111	2.183447	4.113148	0.471661
TCGA-DD	1.764384	0	1.686437	6.959001	1.07864	1.210882	3.649406	0.518857
TCGA-BC-	1.863014	0	3.561489	6.936239	0.609531	2.352174	4.780771	0.361658
TCGA-DD	5.838356	1	2.154994	5.716814	0.446743	1.224799	3.048039	0.126306
TCGA-DD	6.884932	0	2.566676	7.008465	3.447015	1.486849	4.038892	1.279142
TCGA-CC-	1.093151	0	2.535694	7.802054	1.485689	2.001547	5.095339	1.643098
TCGA-DD	3.567123	0	2.92279	7.398507	1.097192	2.154771	4.260962	1.015521
TCGA-2Y-	6.690411	0	2.751196	6.779542	2.163657	1.970731	4.10404	1.977671
TCGA-CC-	0.830137	1	2.397351	7.518364	0.739277	2.314314	4.807737	3.392264
TCGA-DD	1.183562	1	2.427563	6.964982	0.335434	1.580586	4.390448	0.153127
TCGA-RC-	1.586301	0	1.886817	6.624201	1.021897	1.327839	2.8347	0.611802
TCGA-DD	1.608219	0	3.106708	7.364809	0.994466	2.352702	4.40233	1.015898
TCGA-G3-	2.136986	0	2.827096	6.706568	0.901483	1.652089	4.048809	1.801884
TCGA-DD	0.50137	0	2.648812	7.391329	1.567261	1.919031	3.815206	1.385356
TCGA-ZP-	1.934247	0	2.847132	7.196072	1.835287	1.693954	4.643184	1.383819
TCGA-KR-	0.178082	1	3.185268	6.670108	2.062699	1.248765	3.342703	0.808558
TCGA-BC-	1.947945	1	2.990918	6.300066	0.890898	1.753183	4.407494	0.29378
TCGA-ED-	1.112329	0	2.936815	7.164619	0.719867	1.970867	3.619156	0.499904
TCGA-CC-	0.578082	0	2.529742	7.48406	0.97498	1.735544	3.879261	0.191617
TCGA-UB-	1.646575	0	2.843888	7.761446	0.321068	1.970916	4.704637	0.55104
TCGA-ED-	1.158904	0	2.851971	6.729395	2.111616	1.957145	4.212368	1.93986
TCGA-XR-	2.534247	0	3.536192	6.683767	4.667445	1.543715	3.614413	0.563574
TCGA-DD	1	1	1.728841	6.446772	0.91831	1.480318	4.241095	2.070122
TCGA-K7-	1.728767	0	1.9356	6.268097	1.700856	1.474507	3.753449	0.822073
TCGA-ZP-	0.057534	0	2.403756	6.779447	1.416658	1.872485	4.609382	0.986237
TCGA-DD	1.147945	1	2.006081	7.421534	1.846588	1.338865	4.576487	0.574368
TCGA-DD	5.983562	0	2.219523	6.444605	0.900292	1.508929	3.095855	0.2472
TCGA-2Y-	4.153425	0	1.983541	7.382867	3.37465	1.235127	4.274624	0.860043
TCGA-DD	2.709589	0	2.816038	6.626652	1.336481	1.94674	3.936359	3.388079
TCGA-EP-	1.665753	0	3.271453	6.471992	0.631793	1.632916	3.486173	0.187107

Supplementary table 1

TCGA-DD	4.706849	0	2.240343	6.414228	1.251788	1.382934	3.432168	0.799925
TCGA-ED-	0.016438	0	3.300042	7.083329	0.498712	1.166554	3.569032	0.576575
TCGA-LG-	1.060274	0	2.291391	6.330213	0.44251	1.606458	3.903303	0.06533
TCGA-UB-	1.331507	0	2.361816	6.308608	2.474753	1.693693	3.971445	0.785784
TCGA-G3-	0.153425	1	3.383061	7.237315	2.759147	2.393275	4.935602	1.836864
TCGA-DD	5.758904	0	2.004119	7.984186	0.669163	1.039235	3.716396	0.076677
TCGA-LG-	1.00274	0	1.98088	7.231853	0.748348	1.090766	3.457158	0.322277
TCGA-ZS-	0.934247	0	2.805741	6.070284	1.32896	1.235218	3.524445	0.727375
TCGA-K7-	1.40274	0	1.883333	6.403784	1.360593	1.174782	3.576705	0.652774
TCGA-DD	1.29863	0	1.090394	5.574506	2.460532	0.6303	3.425361	0.116144
TCGA-DD	5.449315	0	3.124425	5.965074	3.490608	1.353243	2.994559	0.135174
TCGA-DD	9.416438	0	2.531561	7.348405	0.790962	1.593176	4.271136	0.597117
TCGA-DD	3.378082	0	2.555028	7.014222	1.9295	1.678305	3.258364	0.686295
TCGA-G3-	0.983562	1	2.75118	7.203145	3.251786	1.794702	3.833155	0.357582
TCGA-O8-	1.473973	0	1.690855	7.171607	1.625397	1.192924	3.840362	0.769708
TCGA-ZP-	2.142466	0	2.316414	5.885318	0.936856	1.490782	3.40273	0.679089
TCGA-G3-	1.178082	0	2.081866	6.618208	1.903692	1.227817	3.891033	0.477267
TCGA-DD	1.520548	0	2.278752	8.4216	1.980569	1.73084	5.020662	1.561915

Supplementary table 1



riskScore	risk
1.60766	low
2.376382	high
1.660299	low
1.94703	low
2.515295	high
2.065627	high
2.414556	high
2.035744	high
1.482977	low
2.026678	high
1.739007	low
2.253623	high
2.128035	high
2.083409	high
1.700667	low
2.036506	high
1.927979	low
2.166827	high
1.721556	low
2.145921	high
2.23553	high
1.803436	low
2.103016	high
2.208014	high
2.003189	high
2.040978	high
1.993703	high
2.156052	high
1.76054	low
2.046729	high
1.736634	low
1.745996	low
1.60113	low
2.323932	high
2.234568	high
1.467041	low
2.006181	high
1.805922	low
2.040049	high
2.011719	high
1.451398	low
1.892393	low
1.801265	low
1.952715	low
1.565471	low
1.657409	low
2.466028	high
2.16804	high
1.888167	low
2.335994	high
2.049864	high
2.224559	high
2.259161	high
1.938494	low
2.045842	high
2.48991	high
1.747168	low

Supplementary table 1

2.015381 high  
1.909928 low  
2.118935 high  
2.039536 high  
2.058232 high  
1.423337 low  
1.847429 low  
2.042523 high  
1.73571 low  
2.125684 high  
1.966409 low  
1.747013 low  
1.830292 low  
1.764945 low  
1.787612 low  
2.033664 high  
2.124679 high  
1.936933 low  
1.926321 low  
1.538343 low  
2.189289 high  
2.160468 high  
2.531251 high  
2.147618 high  
2.219792 high  
2.032916 high  
1.540399 low  
2.08665 high  
1.844177 low  
1.983353 high  
1.68138 low  
1.977979 high  
1.886995 low  
1.858913 low  
2.183154 high  
2.230257 high  
1.985488 high  
2.097927 high  
2.268313 high  
1.836224 low  
2.113293 high  
2.042632 high  
1.963228 low  
1.819245 low  
2.021949 high  
2.371256 high  
2.330432 high  
1.80719 low  
2.03345 high  
2.063279 high  
1.759818 low  
1.885217 low  
2.06708 high  
2.00567 high  
1.546595 low  
2.021427 high  
2.215688 high  
1.808465 low

1.888022 low  
1.877013 low  
1.93459 low  
2.157119 high  
1.651993 low  
2.064786 high  
1.741121 low  
1.959148 low  
1.969901 low  
2.453433 high  
1.915756 low  
1.720706 low  
2.054992 high  
2.038408 high  
2.038282 high  
2.081068 high  
1.910049 low  
2.16386 high  
1.613793 low  
1.869837 low  
2.245011 high  
2.058722 high  
1.81126 low  
1.751883 low  
1.538498 low  
1.693375 low  
2.126726 high  
2.240609 high  
1.615848 low  
1.758431 low  
1.808025 low  
1.844952 low  
2.116674 high  
2.327283 high  
1.642321 low  
1.958399 low  
1.988339 high  
2.07846 high  
1.910261 low  
1.943259 low  
2.137952 high  
2.196038 high  
1.712528 low  
1.932064 low  
1.914419 low  
2.088921 high  
1.690905 low  
1.933273 low  
1.804635 low  
1.818538 low  
1.845698 low  
1.84803 low  
1.900143 low  
1.782272 low  
2.08808 high  
1.517473 low  
2.317479 high  
2.514001 high

Supplementary table 1



2.208843 high  
2.216564 high  
1.666726 low  
2.187101 high  
1.731372 low  
1.902262 low  
2.39909 high  
1.946008 low  
2.036515 high  
2.277806 high  
1.820559 low  
2.068991 high  
2.466755 high  
2.129779 high  
1.968125 low  
2.181517 high  
2.163418 high  
1.949914 low  
2.275673 high  
1.958878 low  
1.712451 low  
2.084958 high  
1.818814 low  
1.952162 low  
1.941579 low  
1.82942 low  
2.005184 high  
1.938809 low  
1.730338 low  
2.177558 high  
2.399603 high  
1.757585 low  
1.752426 low  
2.507057 high  
2.392248 high  
2.082622 high  
2.118725 high  
1.795257 low  
2.071192 high  
1.675859 low  
1.926486 low  
1.979626 high  
1.83698 low  
1.639661 low  
1.945794 low  
2.017041 high  
1.914059 low  
1.603595 low  
1.808249 low  
1.982789 high  
2.039303 high  
1.67225 low  
2.12221 high  
2.363015 high  
1.701848 low  
1.928126 low  
2.029961 high  
1.597069 low

2.388057 high  
2.021632 high  
1.854831 low  
1.810937 low  
2.008112 high  
1.994465 high  
1.862292 low  
2.039009 high  
1.649998 low  
2.045663 high  
2.174061 high  
2.348742 high  
2.221078 high  
2.034137 high  
1.989981 high  
2.060093 high  
1.677106 low  
1.692924 low  
2.725311 high  
1.643951 low  
1.867338 low  
1.682653 low  
1.888987 low  
2.116066 high  
2.262718 high  
1.824138 low  
1.682064 low  
1.959717 low  
2.119172 high  
2.154983 high  
2.269353 high  
2.178263 high  
2.511125 high  
1.784431 low  
2.189732 high  
1.657925 low  
2.23121 high  
1.897896 low  
1.937796 low  
1.795349 low  
1.847914 low  
1.943875 low  
1.614605 low  
1.759035 low  
2.058832 high  
1.687685 low  
1.694748 low  
1.796505 low  
2.004568 high  
2.509981 high  
1.811896 low  
2.311165 high  
1.870756 low  
2.200772 high  
1.575428 low  
1.701205 low  
2.171346 high  
2.120014 high

Supplementary table 1

1.62987 low  
1.763618 low  
1.758589 low  
1.778431 low  
1.991153 high  
1.874405 low  
2.071894 high  
1.65801 low  
2.164002 high  
1.851294 low  
1.962406 low  
1.838896 low  
1.833402 low  
1.85665 low  
1.819314 low  
2.311023 high  
2.515001 high  
1.664858 low  
1.689792 low  
1.608425 low  
2.205417 high  
2.06258 high  
2.371133 high  
1.910142 low  
1.815618 low  
2.08664 high  
2.364133 high  
2.098245 high  
2.019795 high  
1.630274 low  
2.31341 high  
1.5476 low  
2.063987 high  
2.165294 high  
2.191855 high  
2.109811 high  
2.12466 high  
1.85902 low  
1.638939 low  
2.269153 high  
1.983489 high  
2.097177 high  
2.119272 high  
2.029758 high  
1.988781 high  
2.08842 high  
1.998092 high  
2.141848 high  
2.126059 high  
2.330312 high  
1.655505 low  
1.703739 low  
1.964162 low  
1.858544 low  
1.731356 low  
1.912191 low  
2.066427 high  
2.015049 high



1.744641 low  
2.004206 high  
1.747778 low  
1.906679 low  
2.456479 high  
1.770258 low  
1.686503 low  
1.823886 low  
1.623542 low  
1.279472 low  
2.017897 high  
1.960132 low  
1.982488 high  
2.164151 high  
1.692384 low  
1.701876 low  
1.746273 low  
2.148105 high

### Supplementary table 1

**Supplementary Table 2: Supplementary Table 2 is the risk score table for the GEO84437 cohort.**

id	futime	fustat	ATF1	ATF4	BATF	CREB1	CREB3	CREB3L1
DO50814	1.150685	0	1.642937	7.323085	1.782275	1.521785	4.408703	0.413507
DO45133	1.808219	1	2.78563	6.291894	0.411828	1.355047	2.985808	0.095547
DO48700	2.219178	0	2.578912	7.903	2.717977	1.952382	3.999457	1.709875
DO45094	4.520548	0	2.354423	6.412808	1.340935	1.482285	3.508491	0.590475
DO50806	1.479452	0	2.395317	8.371986	2.547241	1.78888	3.756529	0.270381
DO45193	0.328767	1	3.272388	6.184941	1.008991	2.52063	3.72988	0.048642
DO45283	1.39726	0	3.088479	8.731489	1.610367	2.252141	4.719297	2.199946
DO45092	3.287671	1	3.206522	7.980898	1.996482	1.788355	3.882803	1.51322
DO45263	0.739726	1	3.332684	6.583532	2.968635	2.223093	4.376327	2.095957
DO23513	3.287671	0	3.523404	6.6982	0.570905	1.857944	4.32594	0.088162
DO48759	1.972603	0	2.538664	7.907743	1.035842	1.370891	3.980995	0.675877
DO45205	0.246575	1	3.446391	7.004277	0.63144	2.302649	4.955099	0.777959
DO45211	0.657534	0	2.672256	7.290892	2.808917	2.375029	3.168623	2.067503
DO45239	2.383562	0	3.42256	7.223345	2.1633	2.184577	4.028065	0.080297
DO50813	1.150685	0	1.922836	7.083559	1.455697	1.599502	4.106689	0.710788
DO23541	2.547945	0	2.579187	6.90919	1.320438	1.922943	3.742941	0.81383
DO23532	2.630137	0	1.968694	7.602543	0.839499	1.185349	4.100468	0.477298
DO48725	2.136986	0	2.758302	7.801301	2.207507	1.799094	4.005354	0.852963
DO50778	1.726027	0	3.29128	8.190267	3.188824	2.357046	3.858939	2.820071
DO45139	3.616438	0	2.599018	7.17337	1.870715	2.029735	4.543623	1.88217
DO45129	4.027397	0	3.574012	6.400073	3.37782	1.52807	3.27611	0.348342
DO45253	2.383562	0	3.208073	7.686275	0.807902	2.217592	4.045427	2.629883
DO23535	2.630137	0	2.818192	6.983398	1.965213	2.413806	3.756064	2.45697
DO48747	1.479452	0	2.180606	8.347829	5.634068	1.629769	5.041504	3.008385
DO50844	0.821918	0	2.715628	6.956354	0.222073	2.571547	4.149304	1.587465
DO45241	2.958904	0	2.431527	8.608882	2.651797	1.214635	3.972766	2.420254
DO23540	2.054795	0	2.2749	8.14969	1.228295	1.419166	4.470103	0.758325
DO45297	3.452055	1	2.543702	8.040278	3.434321	2.523675	3.946193	5.041888
DO23521	3.041096	0	3.138749	8.217541	2.929539	2.623443	4.837334	0.651334
DO48742	1.643836	0	2.211143	6.400745	0.881995	1.472329	2.981865	0.520673
DO45095	4.438356	0	2.350171	7.410877	3.83431	1.717614	3.940369	1.051144
DO23531	2.465753	0	2.674872	6.38018	1.464544	1.87657	3.095709	0.334196
DO45091	3.616438	1	3.054003	7.11028	1.178442	1.819765	4.091948	0.091431
DO23542	2.630137	0	4.206971	7.324091	1.700986	1.77048	3.596369	0.108323
DO23527	2.876712	0	2.527687	6.680382	1.398528	1.791048	3.192798	0.714157
DO45259	0.90411	0	2.81946	7.101902	0.609898	2.128065	4.269638	0.586262
DO45137	3.616438	0	2.585986	6.764561	0.960206	2.581635	3.351012	1.678204
DO48723	1.643836	0	3.100769	8.053102	4.651583	1.60732	4.210217	0.101664
DO45165	1.890411	0	2.886494	7.474034	2.862803	2.212084	3.686252	1.788014
DO45225	2.876712	0	2.693001	7.009704	2.104454	2.561151	3.798563	0.788847
DO23539	3.041096	0	2.752233	7.767738	2.074555	1.2758	3.946952	0.468491
DO48733	1.643836	0	2.738656	7.346028	2.041734	2.181956	4.099873	1.438317
DO45183	1.561644	1	3.178541	7.535334	1.381535	2.10776	3.906398	0.29967
DO23530	0.493151	1	2.988087	7.804862	4.304253	2.136953	4.013059	2.902102
DO23518	3.616438	0	2.498503	6.700781	1.196056	1.468617	4.176616	0.501588
DO45281	2.054795	0	3.045178	7.536602	2.131749	1.624712	3.517041	1.281909
DO48741	0.657534	0	2.440812	6.642987	1.335776	1.558625	3.345819	0
DO45219	2.958904	0	2.997259	7.459175	1.039974	2.506939	3.378893	1.219672
DO48730	1.726027	0	2.733993	8.582049	3.029663	2.301622	4.909585	0.431452
DO45101	4.60274	0	2.063717	7.571145	1.057472	1.197331	3.564006	0.575795
DO45097	4.438356	0	3.0323	7.394512	0.190412	1.631862	3.935211	0
DO48706	2.383562	0	3.020641	7.026871	1.347658	1.866487	3.258864	0.06434
DO45175	3.123288	0	3.128883	6.737773	0.604278	1.205752	3.085028	0.058645
DO45267	1.561644	1	4.079795	7.9636	4.675533	1.999751	4.067724	0.413264
DO23547	2.794521	0	2.87823	8.406861	4.278798	2.336143	4.125189	2.779889
DO23516	0.054795	1	3.089604	7.34304	2.784637	1.68532	4.160792	0.112238
DO48715	1.890411	1	2.22085	7.338237	2.071557	1.583626	4.208414	0.176769

DO50825	1.068493	0	3.279393	7.756994	1.381409	1.749945	3.085362	0.056957
DO48721	2.465753	0	2.070013	5.513998	0.170218	1.446238	3.510186	0.449792
DO45249	1.726027	0	3.03593	8.238863	2.688271	2.225262	4.139711	1.848703
DO45117	3.041096	1	3.298953	6.870187	1.893546	2.041673	3.275897	0.175223
DO50774	1.972603	0	2.637468	6.814416	1.740625	1.666644	3.906208	1.002185
DO48760	1.890411	0	2.482317	6.539814	0.49845	1.231211	3.12734	0.19266
DO45247	0.575342	0	3.086524	7.151191	0.328399	2.446919	2.950626	0.310647
DO23515	3.369863	0	3.061034	8.650409	2.1061	1.958424	4.209921	1.648321
DO45195	1.068493	0	2.309151	7.147289	3.22031	1.197773	2.835314	0.152041
DO45169	3.69863	0	2.467943	6.886188	0.664625	1.533318	3.105681	0.066658
DO48674	3.452055	0	1.941744	7.156675	0.438395	1.086659	3.274636	0.168693
DO45237	2.465753	0	2.979733	6.683573	1.362676	2.198842	3.746133	2.111863
DO48677	3.123288	0	3.133501	6.260674	0.099264	1.691834	3.173382	0.475338
DO23534	2.30137	0	2.192018	6.697892	0.315088	1.495062	3.352223	0.164879
DO50820	1.39726	0	2.61603	6.842915	0.67967	2.467854	3.691905	1.327915
DO45255	1.972603	0	2.892262	7.414179	1.95256	1.416755	4.20819	0.118995
DO48712	2.219178	0	2.981229	7.01635	1.298068	2.016	3.354014	2.413526
DO45275	0.027397	1	3.701764	7.804227	3.44866	2.219656	5.093542	4.891405
DO45305	0.821918	0	2.972222	8.280025	1.620863	2.093944	5.481103	1.57751
DO45127	1.150685	1	3.68883	7.483337	2.4771	2.444573	3.971143	2.780462
DO45203	3.205479	0	3.208553	7.689214	2.009905	2.398556	3.828839	0.717169
DO50816	1.068493	0	2.894995	7.278866	1.142325	1.288207	3.695201	0.329481
DO50832	0.246575	0	2.576389	6.2505	0.323647	1.805392	2.836093	0
DO45157	5.424658	0	2.735282	7.105037	3.635437	2.438674	4.229104	1.629914
DO48682	0.328767	1	2.877775	8.255975	0.155476	1.759101	4.328363	0.524343
DO50811	1.232877	0	2.241762	8.251283	0.418881	1.798021	3.629798	0.137478
DO45215	3.205479	0	2.712973	7.413766	0.533297	1.774108	3.217723	0.681052
DO48751	1.315068	1	3.555609	7.774755	0.127846	1.666673	4.21852	0.10241
DO48736	1.643836	0	2.617967	7.508616	2.471231	2.071045	3.90169	1.37487
DO45209	3.69863	0	2.161677	8.587025	4.047106	2.223763	4.859144	0.168814
DO50839	0.90411	0	1.792222	7.08394	1.212491	0.75743	4.051315	0.493671
DO50793	1.479452	0	2.756942	7.574256	0.511731	2.073119	3.78062	0.301801
DO50776	1.890411	0	2.592156	7.214168	1.61265	1.467412	3.276326	1.138757
DO45113	4.273973	0	2.756262	7.533241	0.513543	2.195083	4.128747	0.135508
DO48761	2.383562	0	3.262283	6.864797	1.078503	2.074672	3.789235	0.155461
DO45223	2.794521	0	3.126125	7.299149	1.383882	2.474938	3.350667	1.549135
DO45141	3.616438	0	3.113827	6.882274	2.278194	2.338393	3.620233	0.561119
DO45119	1.39726	1	3.793704	7.923538	0.577561	2.48217	4.59656	1.082285
DO45099	4.356164	0	2.285	7.206916	0.936748	1.752486	3.732501	0.814053
DO45107	4.684932	0	2.685578	7.546793	0.643149	1.569911	3.636019	0.293213
DO48717	0.493151	1	3.576733	7.416228	1.804482	2.063439	4.79519	4.211602
DO23536	2.547945	0	2.781092	5.634542	1.950618	1.966594	3.001019	0.392217
DO45185	1.643836	0	3.02294	7.191706	1.518431	2.363778	4.762262	0.234018
DO45231	2.547945	0	3.17359	6.981088	1.146194	2.210392	3.960861	1.825549
DO48728	0.410959	0	3.098688	7.859878	3.287874	2.532643	3.93042	1.445305
DO45096	3.534247	1	2.225612	6.873472	0.646521	2.122588	3.800587	0.195236
DO50859	0.493151	0	2.495217	7.420626	0.376454	1.985419	2.945553	0.133059
DO23524	2.876712	0	3.678115	7.677448	2.264624	2.166108	4.271293	0.629811
DO48743	1.561644	0	2.79463	7.005207	1.760414	2.033739	3.615639	1.183398
DO45289	0.986301	0	2.773451	8.350217	0.709391	2.002928	4.553176	2.367226
DO45189	3.287671	0	3.37769	7.127788	0.537572	2.853919	3.905493	0.854816
DO23519	1.726027	0	2.695232	8.153092	2.842706	1.660806	5.054373	1.839667
DO23538	1.232877	0	2.686163	6.383946	0.545665	1.665837	2.966246	0.205409
DO23544	2.630137	0	2.208439	7.903548	1.633213	1.380653	3.431874	0.301733
DO45173	3.205479	0	3.008677	7.800257	0.722321	1.329649	4.278321	0.237688
DO45161	1.479452	1	2.99483	7.747519	1.698262	2.226184	3.580839	0.587304
DO50850	1.972603	0	2.809295	7.232845	1.246514	1.656068	3.621369	1.202387
DO45103	1.232877	0	2.821684	7.254252	1.874952	2.323427	4.203176	2.800089

Supplementary table 2



DO50807	1.479452	0	2.339267	6.442595	0.838855	1.789584	3.404641	0.173111
DO45121	4.191781	0	2.998114	7.010608	1.61474	2.233822	3.809726	0.778488
DO50787	1.315068	0	2.805311	6.566876	2.297637	1.798402	3.757083	0.266314
DO23545	1.561644	1	2.462083	7.758553	1.339237	1.666767	3.873413	0.69154
DO45273	1.315068	0	2.615324	8.143024	2.358961	2.390878	3.850825	1.614973
DO23551	0.410959	1	2.60148	7.306284	2.757074	1.973284	3.561574	0.506372
DO50840	0.90411	0	2.167284	7.40181	0.582841	1.818662	4.458496	0.134362
DO45155	5.917808	0	2.817855	7.191555	1.281769	2.596803	3.717215	4.76151
DO45109	4.356164	0	2.02795	7.142109	2.379651	1.269412	3.846672	1.540248
DO45217	0.739726	1	2.588445	8.057175	1.68404	2.273486	3.449689	1.01108
DO23550	2.712329	0	2.532084	6.738041	1.422215	1.870338	3.5984	0.183896
DO45269	2.054795	0	3.39484	7.819835	1.339456	2.057933	3.373608	0.358629
DO50800	1.39726	0	2.677612	7.342573	2.36233	2.270689	3.682897	3.086745
DO48720	1.561644	0	3.004493	7.519838	2.77328	2.663467	3.538383	2.654686
DO50791	1.315068	1	2.682809	7.027592	2.331735	1.889988	4.204766	0.611503
DO45199	3.69863	0	2.330128	7.143392	1.562737	1.727857	3.673992	0.329281
DO45299	3.945205	0	3.731242	7.828547	0.953178	2.022746	5.010676	6.542615
DO50829	1.561644	0	3.61901	7.286672	4.377828	1.733446	4.896485	5.232369
DO45105	4.60274	0	2.040216	8.033583	0.621704	1.397168	3.381458	0.156534
DO50845	0.575342	0	2.507258	8.416213	2.265456	1.141612	4.075282	1.206478
DO45197	3.205479	0	2.918086	6.648301	1.364007	2.299306	3.578295	0.696356
DO45235	2.465753	0	2.520123	6.563429	1.049708	1.840201	4.132781	0.487672
DO48672	1.232877	0	3.885135	7.457833	1.119678	1.851232	3.358457	0.581549
DO45181	3.287671	0	2.551982	6.930715	2.471524	1.853974	3.499368	0.461755
DO23525	2.876712	0	2.782927	8.710016	2.645026	1.782748	4.840674	0.349239
DO45257	2.219178	0	2.174969	7.313809	1.0913	1.632437	3.963981	0.929424
DO50803	1.479452	0	2.466981	7.527314	2.546041	1.957964	4.014341	0.623883
DO23529	2.547945	0	3.564388	6.598289	2.878532	1.680028	3.297648	0.140433
DO45115	2.30137	0	3.047548	7.377245	2.350551	1.869975	3.932906	0.119454
DO45125	4.60274	0	2.126134	7.564704	0.778314	1.4372	4.048642	0.969127
DO50809	1.972603	1	2.464297	7.539608	2.136959	1.917932	3.838825	1.44082
DO45243	2.547945	0	2.61236	7.349976	1.490242	2.157235	3.897874	1.540168
DO23508	1.068493	0	2.522559	8.049209	4.018452	1.421543	4.657217	0.474209
DO23537	2.465753	1	3.080233	6.742859	0.507001	2.143705	3.485782	0.662161
DO45251	2.465753	0	2.939659	7.925906	1.768856	2.460588	4.230129	1.424201
DO48727	1.068493	1	2.687313	6.718292	0.251026	1.519602	3.546725	0.096982
DO48719	1.890411	0	3.157353	7.270558	0.526601	1.336569	3.98518	0.221472
DO45285	1.315068	0	2.376416	7.89889	2.683698	1.934289	5.770132	1.940958
DO45191	3.287671	0	2.405879	6.995224	0.548866	1.823421	4.051775	0.485523
DO48679	3.287671	0	2.485206	7.251632	1.848189	1.546559	4.133962	0.533475
DO45261	2.712329	0	2.932773	7.17434	1.468421	1.779258	3.316947	1.101077
DO48701	2.136986	0	2.639935	7.42774	1.217462	2.058939	6.332728	0.811827
DO45213	3.287671	0	3.181042	7.476173	0.841762	2.248713	4.013536	1.452081
DO48695	1.972603	0	2.494441	6.659923	0.607288	1.176828	3.601106	0.099872
DO23552	2.219178	0	2.595783	6.46889	0.472561	1.609448	4.203526	0.081182
DO45123	1.561644	1	2.794882	7.568151	1.565881	1.833745	3.221192	0.390845
DO45131	0.986301	1	2.573036	7.94323	3.391936	2.298151	4.204295	0.044018
DO23514	3.534247	0	3.471349	6.712039	3.410665	2.071689	3.83207	0.126836
DO48746	1.561644	0	3.278643	6.63568	0.281494	1.832928	3.469175	0.103574
DO45143	3.534247	0	2.512595	7.427372	1.34415	1.807973	3.959057	0.861428
DO45187	3.452055	0	3.035404	7.107378	0.712092	2.17043	3.792673	0.477061
DO50855	1.561644	0	3.06222	7.423526	1.422686	2.143833	4.228592	1.281563
DO23549	2.712329	0	3.045047	8.030098	4.662505	1.919404	3.527408	0.125309
DO23523	2.958904	0	3.294075	7.928363	3.942364	2.638635	4.726952	1.098234
DO50805	1.890411	0	2.038258	7.873818	2.977056	1.53448	4.340642	1.49507
DO45171	1.643836	0	2.463859	6.480023	2.062372	1.412041	3.453149	0.382828
DO50783	1.315068	0	2.08692	7.069631	1.005175	1.38044	3.667461	0.167315
DO45307	0.657534	1	2.811824	7.989232	4.666412	2.214437	4.50837	4.71223

Supplementary table 2

DO45179	1.643836	0	2.354073	7.202854	0.788123	1.962277	3.485566	1.048969
DO45135	3.863014	0	2.786954	7.988617	4.943104	2.288175	4.196893	1.806451
DO48704	2.054795	0	2.981845	7.728358	0.834277	1.686441	3.620936	0.963512
DO45163	2.630137	0	2.874036	6.978913	0.154118	1.563826	2.683792	0.077071
DO50785	0.246575	1	3.168846	7.850254	1.463524	1.634808	3.228747	1.253385
DO50808	1.561644	0	2.663966	7.842594	0.917631	1.653796	4.015392	0.569241
DO48737	1.972603	0	3.126759	7.926246	3.787949	1.856005	4.48519	0.784687
DO45149	3.452055	0	2.322993	7.973107	2.719266	1.002399	4.523917	0.255184
DO45301	3.945205	1	2.248278	8.332121	1.917005	2.119957	4.78746	4.762996
DO23543	2.794521	0	2.484378	6.891109	2.763685	2.259779	3.122972	0.628539
DO227643	3.452055	0	2.305108	7.047488	0.881612	1.627517	3.315058	0.394132
DO50789	1.561644	0	2.997763	7.382359	0.612891	1.59345	3.406228	0.368203
DO23511	0.493151	1	1.886036	8.806613	1.352918	0.92361	4.847101	0.116455
DO45233	2.465753	0	2.867611	7.118741	1.758311	2.288304	3.881619	1.893928
DO50815	0.410959	0	2.690387	9.975686	2.793623	2.247146	4.363574	1.453904
DO45111	4.356164	0	2.761508	5.589238	0.205543	1.999822	3.658413	0.181961
DO45153	3.780822	0	2.934458	7.114018	1.954327	2.12392	4.05704	1.571987
DO45229	2.712329	0	2.305729	7.161238	1.416082	1.683815	3.57753	0.933338
DO45221	1.068493	1	2.958467	7.873801	3.177807	1.938836	4.615523	0.507653
DO50802	2.547945	0	3.953483	7.568628	0.82536	1.552286	3.885883	0.901669
DO45279	3.534247	0	3.140327	7.628713	1.333885	2.888842	4.598619	2.092756
DO23510	2.383562	0	2.618092	7.714464	2.329849	2.25625	4.600324	1.2743
DO45207	2.876712	0	2.759774	6.352513	0.798932	2.331366	3.692299	1.295712
DO23512	3.452055	0	2.31556	7.710993	0.945436	1.832954	3.980714	0.261792
DO50817	1.068493	0	2.304253	7.088565	1.277019	1.685337	3.638398	0.165985
DO50818	1.39726	0	2.321775	7.028717	1.928321	1.394095	3.506293	0.103962
DO23526	2.876712	0	2.658806	7.887484	1.891953	2.378991	4.212447	1.402083
DO45093	1.972603	1	2.589499	8.104426	2.46865	1.603877	3.290293	0.135468
DO48697	2.219178	1	2.62749	8.276656	3.65648	2.216399	3.924725	1.922017
DO50804	1.972603	0	2.700448	7.206951	0.381184	1.600043	3.592314	0.149814
DO45177	3.452055	0	2.963845	6.321135	1.590734	2.138583	3.755612	1.942318
DO45265	2.794521	0	3.174351	7.311186	2.322785	2.150215	3.935845	0.116338
DO23548	2.30137	0	2.764353	7.304261	2.056551	1.570156	3.400961	0.730298
DO48716	1.972603	0	2.668054	7.71323	2.152044	1.873568	4.106645	0.407928
DO45159	4.027397	0	2.56283	6.718853	1.862697	2.123644	3.592253	0.66808
DO50822	1.39726	0	3.051882	6.823351	1.866866	1.488834	3.633688	0.108298
DO45201	2.465753	0	2.510278	7.347179	1.381675	1.993787	3.630952	1.631484
DO45303	2.712329	0	3.404912	8.431997	0.779944	2.18203	5.424631	1.559318
DO45245	0.657534	1	2.424534	7.117542	0.556553	2.338919	4.288854	1.994154
DO50857	0.575342	0	3.078193	6.8604	1.466638	1.803005	3.654996	0.093655
DO50798	0.082192	1	2.709516	6.551058	0.765304	1.557048	3.642384	0.293399
DO48681	2.465753	0	3.633553	6.548079	0.518507	2.374048	2.995689	0.18833
DO227801	1.808219	0	2.417852	7.039982	1.213669	1.509603	3.500715	0.911376
DO23528	2.794521	0	2.694483	6.961214	0.52403	2.154447	4.013225	0.205138
DO45145	0.164384	1	3.514014	7.950449	3.256506	2.203199	4.654198	4.326112
DO48693	2.465753	0	2.388099	7.25956	3.118693	1.527106	3.440177	0.51242
DO45277	1.643836	0	3.078424	7.387342	4.169151	2.520691	4.086889	1.838428
DO45287	1.068493	0	2.971311	7.710754	4.548831	2.715313	4.212891	3.205575
DO45167	3.945205	1	2.135618	6.959993	0.86065	1.002844	3.306818	0.18842
DO45227	2.794521	0	3.585662	6.45598	0.400532	1.809764	2.757251	0.097209
DO48732	1.726027	0	3.071448	7.835509	2.15231	2.567791	4.236094	0.467846
DO50799	1.479452	0	2.660543	6.328442	3.015382	2.074454	4.208838	1.202301
DO50819	1.39726	0	2.672584	7.257371	3.459213	1.826496	4.499114	0.702
DO48757	1.315068	0	3.218148	6.569201	1.789164	2.301686	4.152813	0.192617
DO23533	2.465753	0	3.433095	7.432528	3.886113	1.434484	3.291648	0.126593
DO23509	2.136986	1	2.690767	6.246549	0.151145	2.003482	3.737052	0.276444
DO23546	2.876712	0	2.731444	8.068331	1.940468	1.818174	3.588788	0.639416
DO23517	3.287671	0	2.447625	7.031937	0.423191	1.350542	3.106562	0.235331

Supplementary table 2

riskScore	risk
2.707689	low
2.655549	low
3.364557	high
2.698724	low
3.244636	high
3.17835	high
3.724764	high
3.480099	high
3.531733	high
3.210456	high
3.009151	high
3.416694	high
3.353941	high
3.472742	high
2.745181	low
2.989491	high
2.689379	low
3.288139	high
3.848691	high
3.2241	high
3.314276	high
3.472973	high
3.337533	high
3.640385	high
3.149267	high
3.295362	high
3.023448	high
3.723979	high
3.799208	high
2.559537	low
3.216753	high
2.868187	low
3.1487	high
3.606682	high
2.866803	low
3.112112	high
3.092497	high
3.627599	high
3.454028	high
3.269114	high
3.128366	high
3.304335	high
3.349134	high
3.744974	high
2.825308	low
3.284991	high
2.748277	low
3.333761	high
3.650328	high
2.709783	low
3.038449	high
3.090931	high
2.847323	low
4.058194	high
3.85532	high
3.333102	high
2.934984	low

Supplementary table 2

3.277102 high  
2.311193 low  
3.661762 high  
3.261545 high  
2.996881 high  
2.585009 low  
3.158234 high  
3.622613 high  
2.863242 low  
2.716989 low  
2.470065 low  
3.219891 high  
2.850467 low  
2.563872 low  
3.071437 high  
3.13784 high  
3.219054 high  
4.102728 high  
3.59232 high  
3.823868 high  
3.526772 high  
2.982895 low  
2.650752 low  
3.489856 high  
3.21044 high  
2.949962 low  
2.974914 low  
3.318867 high  
3.28982 high  
3.510998 high  
2.472678 low  
3.104386 high  
2.957379 low  
3.140364 high  
3.210091 high  
3.391347 high  
3.342067 high  
3.727504 high  
2.860279 low  
2.96385 low  
3.744084 high  
2.838701 low  
3.358596 high  
3.324735 high  
3.711447 high  
2.81106 low  
2.886114 low  
3.691943 high  
3.159467 high  
3.398387 high  
3.460108 high  
3.474871 high  
2.722217 low  
2.895034 low  
3.119392 high  
3.368728 high  
3.071867 high  
3.403765 high

Supplementary table 2



2.692315 low  
3.258564 high  
3.052649 high  
3.044349 high  
3.468665 high  
3.190674 high  
2.850724 low  
3.453161 high  
2.829418 low  
3.297169 high  
2.901526 low  
3.428027 high  
3.380742 high  
3.626896 high  
3.159844 high  
2.893813 low  
3.903443 high  
3.965542 high  
2.753294 low  
3.185715 high  
3.13707 high  
2.874292 low  
3.482309 high  
3.046369 high  
3.528654 high  
2.848734 low  
3.193656 high  
3.32321 high  
3.308209 high  
2.808967 low  
3.17234 high  
3.191866 high  
3.364325 high  
3.086414 high  
3.522509 high  
2.754647 low  
3.041676 high  
3.41498 high  
2.85137 low  
2.996291 high  
3.129496 high  
3.298961 high  
3.379783 high  
2.636737 low  
2.763437 low  
3.131295 high  
3.448603 high  
3.484526 high  
3.020476 high  
3.050083 high  
3.172425 high  
3.367261 high  
3.629052 high  
3.918643 high  
3.110143 high  
2.790398 low  
2.654021 low  
3.88408 high

2.911026 low  
3.762253 high  
3.176698 high  
2.808345 low  
3.301242 high  
3.091941 high  
3.637242 high  
3.04083 high  
3.476606 high  
3.116261 high  
2.758333 low  
3.037228 high  
2.896294 low  
3.313407 high  
3.854745 high  
2.697541 low  
3.315741 high  
2.885634 low  
3.523215 high  
3.481747 high  
3.652209 high  
3.396654 high  
3.016434 high  
2.969885 low  
2.827785 low  
2.809474 low  
3.406348 high  
3.180399 high  
3.602095 high  
2.881306 low  
3.151863 high  
3.402182 high  
3.090411 high  
3.237816 high  
3.030448 high  
3.059631 high  
3.093757 high  
3.708126 high  
3.081721 high  
3.107961 high  
2.806923 low  
3.248145 high  
2.839823 low  
3.005013 high  
3.982644 high  
3.033023 high  
3.732525 high  
3.903088 high  
2.53027 low  
3.056716 high  
3.570998 high  
3.164046 high  
3.315472 high  
3.288219 high  
3.463961 high  
2.792889 low  
3.265617 high  
2.678975 low

Supplementary table 2

**Supplementary Table 3: Supplementary Table 3 is a table of immune cell infiltration in gastric cancer calculated**

Mixture	B cells nai	B cells mei	Plasma cel	T cells CD4	T cells CD8	T cells CD4	T cells CD4	T cells CD4	T cells folli
TCGA-DD	0.047045	0	0.003945	0.073535	0	0.113793	0.00573		0
TCGA-DD	0.057276	0	0.054572	0.071352	0	0.070822	0.004069	0.00179	
TCGA-DD	0.025561	0	0.002836	0.102632	0	0.103564	0	0.018395	
TCGA-DD	0.079387	0	0.005609	0.175137	0	0.088989	0	0.022831	
TCGA-FV	0.004272	0	0.001235	0	0	0.110289	0	0.035009	
TCGA-DD	0.036722	0	0.001985	0.029697	0	0.141234	0	0	
TCGA-DD	0.108351	0	0.047354	0.053397	0	0.096217	0	0.025693	
TCGA-EP	0.11174	0	0.065843	0.052874	0	0.137704	0	0.027418	
TCGA-EP	0.150569	0	0.016659	0.119326	0	0.071433	0	0.022287	
TCGA-DD	0.14185	0	0.029354	0.071154	0	0.084316	0	0.016307	
TCGA-BC	0.036779	0	0.009883	0.083289	0	0.123584	0	0.010714	
TCGA-BC	0.07053	0	0.005569	0.114108	0	0.047361	0	0.01764	
TCGA-DD	0.085005	0	0.012868	0.175808	0	0.1507	0	0.029837	
TCGA-G3	0.090041	0	0.03258	0.22088	0	0.207424	0	0.008581	
TCGA-DD	0.059171	0	0.007053	0.208446	0	0.21107	0.009248	0.026133	
TCGA-DD	0.057378	0	0.006953	0.146023	0	0.16119	0	0.014677	
TCGA-DD	0.078564	0	0.007783	0.045242	0	0.183698	0	0.00793	
TCGA-DD	0.053168	0	0.007225	0.088022	0	0.194795	0	0.002589	
TCGA-EP	0.017832	0	0.016397	0.178304	0	0.29077	0	0.025815	
TCGA-DD	0.093065	0	0.006065	0.159036	0	0.212929	0	0.027731	
TCGA-DD	0.055364	0	0.131154	0.171756	0	0.064239	0.022284	0.019572	
TCGA-BD	0.067891	0	0	0.090788	0	0.248353	0	0	
TCGA-DD	0.078383	0	0.012353	0.168524	0	0.152983	0	0	
TCGA-DD	0.08697	0	0.024745	0.104641	0	0.110874	0	0.00561	
TCGA-BC	0.054527	0	0.002254	0.054875	0	0.146247	0	0	
TCGA-DD	0.053404	0	0	0.088025	0	0.124629	0	0.015111	
TCGA-DD	0.073434	0	0.01246	0.119068	0	0.174406	0.001033	0	
TCGA-DD	0.016847	0.042645	0.008381	0.080263	0	0.1768	0	0.017012	
TCGA-DD	0.061998	0	0.016373	0.093913	0	0.12844	0.007498	0	
TCGA-FV	0.087773	0	0.00778	0.155132	0	0.127361	0	0.007231	
TCGA-DD	0.060144	0	0.002136	0.101821	0	0.276117	0.001153	0	
TCGA-BC	0.101535	0	0.005673	0.098001	0	0.10383	0	0.039941	
TCGA-FV	0.094126	0	0.00047	0.05341	0	0.176113	0	0	
TCGA-FV	0.068095	0	0	0.169383	0	0.302314	0.004985	0.019884	
TCGA-DD	0.23755	0	0.036776	0.097001	0	0.089667	0	0.042173	
TCGA-BC	0.075717	0	0.002436	0.065314	0	0.133146	0	0.038644	
TCGA-FV	0.014049	0	0	0.197108	0	0.153894	0	0.004767	
TCGA-BC	0.096886	0	0.012064	0.069498	0	0.249219	0.031974	0	
TCGA-BC	0.212137	0	0.074941	0.064471	0	0.104672	0	0.025689	
TCGA-DD	0.032146	0	0.030794	0.147086	0	0.127678	0	0	
TCGA-BC	0.047077	0	0	0.066573	0	0.191942	0	0	
TCGA-BC	0.053273	0	0.003284	0.110906	0	0.212248	0	0	
TCGA-DD	0.119169	0	0.031841	0.120704	0	0.264657	0	0	
TCGA-DD	0.098692	0	0	0.218736	0	0.216054	0.002019	0	
TCGA-BC	0.019407	0	0.004536	0.044073	0	0.194017	0	0.005642	
TCGA-DD	0.056792	0	0.030514	0.152654	0	0.217278	0.011719	0.008922	
TCGA-BD	0.114469	0	0.016041	0.135136	0	0.312654	0.007718	0	
TCGA-DD	0.073831	0	0.073103	0.102396	0	0.149154	0	0.012169	
TCGA-ES	0.073408	0	0.0071	0.110174	0	0.172309	0	0.040245	
TCGA-DD	0.108096	0	0.097198	0.138584	0	0.078009	0	0.008921	
TCGA-DD	0.014686	0	0.005775	0.235568	0	0.2224	0	0.002918	
TCGA-CC	0	0	0.005296	0.445347	0	0.009494	0.048321	0.026578	
TCGA-DD	0.046591	0	0	0.187018	0	0.26897	0.001325	0	
TCGA-G3	0.048068	0	0.107718	0.278067	0	0.025542	0.029217	0.07208	
TCGA-UB	0.051775	0	0.005463	0.111856	0	0.271311	0	0.01338	
TCGA-UB	0.158739	0	0.021309	0.217241	0	0.138131	0.015966	0.018712	
TCGA-BC	0.01364	0.021637	0	0.042862	0	0.160141	0	0	

TCGA-BC-	0.000255	0	0.002983	0.09675	0	0.181826	0.001307	0.013508
TCGA-BC-	0.007979	0	0	0	0	0.319213	0	0
TCGA-FV-	0.01316	0	0	0.051543	0	0.100131	0.012001	0.012525
TCGA-CC-	0.001059	0.00831	0.002667	0.045997	0	0.29377	0	0.009365
TCGA-WC	0	0.039474	0.037106	0.076858	0	0.128651	0	0.065249
TCGA-ED-	0.097846	0	0.047935	0.042129	0	0.111625	0	0
TCGA-DD	0.000586	0.000269	0	0.037935	0	0.207883	0	0
TCGA-DD	0.06657	0	0.004236	0.115588	0	0.161693	0	0.000342
TCGA-MR	0.048238	0	0.001436	0.140846	0	0.287017	0	0.004993
TCGA-QA	0.087555	0	0	0.083642	0	0.240017	0	0.076123
TCGA-CC-	0	0.053322	0.000586	0.058698	0	0.134153	0	0.007837
TCGA-FV-	0.007615	0.008175	0.00023	0.14724	0	0.073304	0.015693	0.032676
TCGA-DD	0.058044	0	0.007729	0.047735	0	0.227506	0.016432	0
TCGA-CC-	0.004561	0.00282	0.001436	0.059135	0	0.168984	0.018502	0.002705
TCGA-EP-	0.027514	0	0.014254	0.149303	0	0.260268	0	0.034724
TCGA-G3-	0.012944	0	0	0.310511	0	0.051574	0.056144	0
TCGA-DD	0.135719	0	0	0.175138	0	0.307713	0.000621	0
TCGA-G3-	0.052214	0	0.001048	0.310993	0	0.089459	0.026708	0
TCGA-DD	0.000356	0.004741	0.009823	0	0	0.255792	0	0.013707
TCGA-5C-	0.043954	0	0.01027	0.070003	0	0.375383	0	0
TCGA-FV-	0.053003	0	0.000384	0.105807	0	0.262938	0.013871	0.047018
TCGA-DD	0.009981	0	0.005849	0.113371	0	0.369974	0	0
TCGA-DD	0	0.010715	0.004824	0.068213	0	0.165862	0	0
TCGA-G3-	0.02633	0	0.006056	0.048866	0	0.137782	0.010179	0.015397
TCGA-MI-	0.103278	0	0.037259	0.137134	0	0.269313	0.002308	0.00381
TCGA-DD	0.015957	0.002829	0	0.049598	0	0.272461	0	0
TCGA-CC-	0.021722	0	0	0.18301	0	0.115909	0.010811	0.002054
TCGA-2Y-	0.005135	0.002908	0.024725	0.326831	0	0.007447	0.055786	0.03869
TCGA-ES-	0.019252	0.001783	0.027285	0.059823	0	0.151547	0	0.083705
TCGA-DD	0.025997	0	0	0.058831	0	0.296533	0.001849	0
TCGA-G3-	0.102304	0	0.018765	0.187687	0	0.083365	0	0
TCGA-DD	0.047133	0	0.015632	0.120637	0	0.137009	0.019706	0.028421
TCGA-DD	0	0.008038	0.017359	0.098501	0	0.185716	0	0
TCGA-DD	0.013078	0	0.001895	0.185217	0	0.120384	0	0
TCGA-DD	0.01699	0	0	0.028315	0	0.394082	0	0
TCGA-ED-	0.034999	0	0	0.148655	0	0.179105	0	0
TCGA-HP-	0.058337	0	0.006222	0.049841	0	0.265829	0	0.008176
TCGA-DD	0.001271	0	0	0.015761	0	0.095867	0	0
TCGA-DD	0.020143	0	0	0.020767	0	0.357288	0	0
TCGA-BC-	0	0.012858	0	0.021274	0	0.131837	0	0.047697
TCGA-LG-	0	0	0.002476	0.025367	0	0.269264	0	0
TCGA-DD	0.000432	0.011486	0	0.066691	0	0.322704	0	0
TCGA-DD	0.046994	0	0.022451	0.253471	0	0.076344	0.02438	0.047162
TCGA-DD	0.068599	0	0	0.040458	0	0.389209	0	0
TCGA-BC-	0.108522	0	0.019702	0.49917	0	0	0.145336	0.040261
TCGA-DD	0.128812	0	0.008729	0.098743	0	0.156958	0	0.01953
TCGA-DD	0.038044	0	0.00044	0.130025	0	0.036865	0	0.022669
TCGA-KR-	0.040229	0	0.00407	0.411061	0	0	0.11206	0.030314
TCGA-ED-	0.036948	0	0.002786	0.069455	0	0.162253	0	0.004992
TCGA-DD	0.160415	0	0.045645	0.107934	0	0.226621	0.009659	0.010839
TCGA-BW	0.045631	0	0.042731	0.070659	0	0.283204	0	0.030057
TCGA-DD	0.152469	0	0.027725	0.08697	0	0.111986	0.007344	0
TCGA-GJ-	0.059313	0	0.000271	0.057005	0	0.150162	0	0.018748
TCGA-DD	0.079253	0	0.006163	0.142972	0	0.194359	0.046188	0.014038
TCGA-UB-	0.054501	0	0.006065	0.045529	0	0.145403	0	0
TCGA-ES-	0.012858	0	0.005366	0.057891	0	0.213612	0	0
TCGA-G3-	0.062406	0	0.004317	0.095166	0	0.155669	0	0
TCGA-FV-	0.001611	0	0.000371	0.073729	0	0.352141	0	0.001985

Supplementary table 3

TCGA-BW	0.064875	0	0	0.33071	0	0.039802	0.10172	0.064468
TCGA-2Y-	0.039862	0	0.003823	0.135435	0	0.017695	0	0.060378
TCGA-4R-	0.081671	0	0.010793	0.026915	0	0.113605	0	0.057532
TCGA-DD	0.0148	0	0.0033	0.084386	0	0.412286	0.025413	0.006503
TCGA-RC-	0.022934	0	0.005971	0.048334	0	0.347178	0	0.003823
TCGA-2Y-	0.007809	0	0	0.333928	0	0.092814	0.059042	0.054757
TCGA-DD	0.029133	0	0.002792	0.062151	0	0.310841	0	0
TCGA-G3-	0.085821	0	0.009012	0.088925	0	0.219927	0.013054	0
TCGA-5R-	0.000957	0	0.000538	0.234144	0	0.064021	0.007203	0.01552
TCGA-ED-	0	0.00895	0.017389	0.104457	0	0.211449	0.000951	0.019438
TCGA-DD	0.029183	0	0.007452	0.284031	0	0.055695	0.037007	0.100201
TCGA-BC-	0.016008	0.000624	0	0.222013	0	0.150692	0	0.016344
TCGA-CC-	0.012777	0	0.001758	0.101021	0	0.233956	0	0.011789
TCGA-DD	0	0	0.008393	0.244208	0	0.180799	0.029097	0
TCGA-WX	0.080209	0	0.005956	0.040053	0	0.298486	0.002055	0
TCGA-PD-	0	0.001646	0.002499	0.015151	0	0.106293	0.000405	0
TCGA-YA-	0.00039	0.007517	0.00096	0.047781	0	0.121764	0	0
TCGA-5R-	0.080959	0	0.012932	0.066918	0	0.309344	0.00302	0
TCGA-DD	0.073369	0	0	0.022098	0	0.165125	0	0.018661
TCGA-CC-	0.008132	0.051624	0	0.051949	0	0.283512	0	0
TCGA-BW	0.050431	0	0.011773	0.149699	0	0.176624	0	0
TCGA-G3-	0.065797	0	0.012238	0.247014	0	0.085041	0	0.124504
TCGA-DD	0.050027	0	0.017406	0.014013	0	0.246652	0.005337	0.022841
TCGA-DD	0.011237	0	0.003768	0.318942	0	0.216212	0.014204	0.017911
TCGA-DD	0.00579	0	0.019271	0.052874	0	0.149404	0	0
TCGA-DD	0.013978	0	0	0.110805	0	0.141113	0	0
TCGA-UB-	0.075673	0	0.004529	0.093612	0	0.215379	0	0.007099
TCGA-DD	0.007917	0	0.007631	0.302005	0	0.058638	0.022335	0.076523
TCGA-DD	0.034009	0	0	0.037617	0	0.145106	0	0
TCGA-FV-	0.017898	0	0	0.083383	0	0.348539	0	0
TCGA-DD	0.064216	0	0.032403	0.226875	0	0.263604	0.001701	0
TCGA-MI-	0.000155	0	0.003884	0.238602	0	0.156587	0.035467	0
TCGA-UB-	0	0.011934	0.009021	0.074118	0	0.109773	0	0
TCGA-FV-	0.010742	0	0.03446	0.446614	0	0	0.026327	0.094752
TCGA-DD	0.172077	0	0.01563	0.039389	0	0.160313	0	0.088388
TCGA-DD	0.004294	0	0	0.012537	0	0.128572	0	0.004412
TCGA-K7-	0.058746	0	0.097511	0.400012	0	0	0.053017	0.08621
TCGA-XR-	0.040736	0	0.003238	0.334341	0	0	0.114931	0.01165
TCGA-DD	0.026428	0	0.00836	0.204118	0	0.250625	0	0.030296
TCGA-CC-	0.023791	0	0.007242	0.178766	0	0.174758	0	0.088374
TCGA-KR-	0	0.001544	0.006374	0.422655	0	0	0.006718	0.077069
TCGA-G3-	0.056044	0	0.006349	0.082581	0	0.302591	0.046477	0.048572
TCGA-K7-	0.066851	0	0.005378	0.019412	0	0.155003	0.001384	0.054602
TCGA-DD	0.113902	0	0.000911	0	0	0.08574	0	0.002285
TCGA-BC-	0.05201	0	0	0.000635	0	0.332209	0	0
TCGA-BC-	0.092537	0	0.002369	0.013804	0	0.047056	0	0.116191
TCGA-UB-	0.02583	0	0.004595	0.067856	0	0.237199	0	0
TCGA-DD	0.052757	0	0	0.008341	0	0.148791	0.020093	0
TCGA-ZP-	0.083027	0	0.003202	0.038173	0	0.180332	0	0.03513
TCGA-DD	0.103826	0	0.038147	0.091779	0	0.147657	0	0.005809
TCGA-CC-	0.02043	0	0.005254	0.013178	0.02746	0	0	0.038265
TCGA-RC-	0.003601	0	0.003744	0.054139	0	0	0	0
TCGA-ED-	0.055969	0	0.005357	0.088526	0	0.12522	0	0
TCGA-2Y-	0.011605	0	0.000849	0.009925	0	0.180976	0	0
TCGA-DD	0.028648	0	0	0.226135	0	0.130696	0	0
TCGA-DD	0.006585	0	0.149639	0.433456	0	0	0.079949	0.059828
TCGA-DD	0.046475	0	0	0.110586	0	0.303338	0	0
TCGA-MI-	0.000329	0.003396	0	0.191119	0	0.149425	0	0.019383

Supplementary table 3



TCGA-FV-	0.003449	0.003902	0	0.010902	0	0.217356	0	0.005907
TCGA-2Y-	0.038821	0	0.010499	0.17937	0	0.19033	0.009976	0.001243
TCGA-CC-	0.047054	0	0	0.05902	0	0.21748	0	0
TCGA-DD	0.047588	0	0.000424	0.080343	0	0.244406	0.013424	0.006468
TCGA-BC-	0	0.007584	0.004471	0.103636	0	0.197639	0	0.002206
TCGA-G3-	0.039181	0	0	0.073455	0	0.23444	0.034425	0
TCGA-CC-	0.025741	0	0.001102	0.158422	0	0.113215	0.089539	0.056713
TCGA-2Y-	0.036434	0	0.001381	0.085135	0	0.185345	0	0
TCGA-ED-	0.074392	0	0.160869	0.121709	0	0.136065	0	0.021084
TCGA-CC-	0.048611	0	0.028164	0.051997	0	0.141594	0.019911	0.019443
TCGA-DD	0.082779	0	0.053928	0.18923	0	0.110317	0.016941	0.082941
TCGA-BD-	0.086013	0.079654	0	0.095826	0	0.245993	0	0.06137
TCGA-DD	0.010749	0	0.004452	0.307086	0	0	0.070381	0.013487
TCGA-DD	0	0.004021	0	0.135113	0	0.180592	0	0.018842
TCGA-DD	0.024335	0	0.004037	0.275104	0	0.12692	0.041687	0.061874
TCGA-DD	0.046895	0.007854	0.012822	0.16588	0	0.196684	0	0.023704
TCGA-CC-	0.02009	0	0.017747	0.217754	0	0.242042	0	0.014051
TCGA-DD	0.056992	0	0.006559	0.075234	0	0.239834	0	0.041442
TCGA-ZS-	0.068962	0	0.003026	0.066644	0	0.353141	0	0.014241
TCGA-NI-	0.146754	0	0.02288	0.118012	0	0.217083	0	0
TCGA-DD	0.018541	0	0	0.27413	0	0.337343	0	0
TCGA-G3-	0.008177	0	0.006175	0.247663	0	0.142524	0	0.042968
TCGA-MI-	0.038803	0	0	0.023939	0	0.19101	0.006993	0
TCGA-CC-	0.033042	0	0	0	0	0.233287	0	0.000252
TCGA-G3-	0.044824	0.003853	0	0.188027	0	0.172274	0.011581	0.031286
TCGA-ZS-	0.080972	0	0.020453	0.079137	0	0.088572	0	0.084265
TCGA-DD	0	0	0	0.104944	0	0.127292	0	0
TCGA-RC-	0.024323	0	0.001695	0.094416	0	0.181133	0	0.060241
TCGA-DD	0	0.028716	0.004769	0.477824	0	0	0.107388	0.021687
TCGA-CC-	0	0.011989	0.003948	0.09439	0	0.227184	0	6.53E-05
TCGA-DD	0.00238	0.022338	0.015698	0.118863	0	0.139784	0.01654	0.023685
TCGA-DD	0.038998	0	0.006386	0.067823	0	0.295671	0	0
TCGA-2Y-	0	0	0.026955	0.264803	0	0.073049	0	0.084163
TCGA-DD	0.057184	0	0	0.155134	0	0.169935	0.006754	0.03121
TCGA-DD	0.027559	0	0.007688	0.181056	0	0.269987	0.009732	0.017526
TCGA-2Y-	0.021994	0.013638	0	0.064687	0	0.485251	0	0
TCGA-RC-	0.066274	0	0	0.119856	0	0.184061	0.012117	0.07866
TCGA-G3-	0.004309	0	0	0.058826	0	0.187069	0	0
TCGA-BC-	0.010488	0	0.009647	0.140045	0	0.284788	0.005023	0.020827
TCGA-DD	0.085278	0	0	0.11218	0	0.084492	0.001831	0
TCGA-2Y-	0.043622	0	0	0.075817	0	0.347896	0	0
TCGA-2Y-	0.026405	0	0.005338	0.015845	0	0.179247	0.003481	0
TCGA-DD	0.078916	0	0.00957	0.054152	0	0.086608	0	0
TCGA-DD	0.026458	0	0.00201	0.087408	0	0.213311	0	0.030168
TCGA-XR-	0.064775	0	0.007947	0.275875	0	0.073481	0.050836	0.087272
TCGA-DD	0.008355	0	0.00346	0.019659	0	0.068229	0.052096	0.023478
TCGA-DD	0.093568	0	0.009206	0.11778	0	0.264623	0	0
TCGA-2Y-	0.03818	0	0.004724	0.324915	0	0.106022	0.014204	0.032249
TCGA-BD-	0.030099	0	0.003481	0.223752	0	0.253809	0.00815	0
TCGA-DD	0.029919	0	0.00244	0.127371	0	0.316692	0	0.012645
TCGA-KR-	0.029484	0	0.015672	0.024525	0	0.518299	0	0
TCGA-ED-	0.054137	0	0	0.034268	0	0.174685	0	0.063095
TCGA-DD	0.021142	0	0.000192	0.080558	0	0.055242	0.004203	0.004103
TCGA-G3-	0.024732	0	0.003933	0.120516	0	0.195448	0	0.016409
TCGA-ED-	0.060299	0	0.033227	0.06318	0	0.150844	0	0.004028
TCGA-DD	0.037954	0	0.001446	0.047686	0	0.429694	0	0
TCGA-ZS-	0.027572	0	0	0.079924	0	0.299257	0	0
TCGA-EP-	0.017204	0	0.04932	0.17262	0	0.096202	0.009907	0.042001

Supplementary table 3

TCGA-FV-	0	0.018206	0.049222	0.121864	0	0.290415	0	0.00056
TCGA-CC-	0.067645	0	0.001205	0.024357	0	0.295604	0	0
TCGA-CC-	0.015484	0	0.009232	0.026017	0	0.259246	0	0
TCGA-ZS-	0.033777	0	0.000548	0.062028	0	0.297876	0.009307	0
TCGA-G3-	0.049765	0.017969	0	0.093898	0	0.366653	0	0.019348
TCGA-DD	0.048892	0	0	0.128339	0	0.250703	0	0.007055
TCGA-EP-	0.053419	0	0.002078	0.117634	0	0.140214	0	0
TCGA-DD	0	0.00867	0.004673	0.082973	0	0.195409	0.007147	0.011454
TCGA-G3-	0.052592	0	0	0.074235	0	0.038741	0	0
TCGA-DD	0.051839	0	0	0.100391	0	0.32167	0	0
TCGA-CC-	0.032549	0	0	0.043372	0	0.085586	0	0.059728
TCGA-DD	0.145806	0	0.031128	0.092729	0	0.217721	0.050498	0
TCGA-BC-	0.028189	0	0.002631	0.179393	0	0.099104	0	0
TCGA-5C-	0.100404	0	0.008331	0.03324	0	0.247836	0.003095	0
TCGA-DD	0.006689	0	0	0	0	0.208237	0	0.018302
TCGA-BC-	0.045972	0	0.005254	0.080411	0	0.234543	0.013773	0.001466
TCGA-GJ-	0.0698	0	0.009657	0.019093	0	0.13619	0.005934	0.009135
TCGA-G3-	0.043536	0	0	0.007159	0	0.17519	0.001243	0
TCGA-DD	0.034413	0	0	0.11566	0	0.301008	0.002489	0
TCGA-BC-	0.038898	0	0	0.10501	0	0.16609	0	0.009917
TCGA-2Y-	0.065825	0	0.019052	0.171401	0	0.065198	0	0.058099
TCGA-ZP-	0.055083	0	0.008311	0.137468	0	0.348766	0	0
TCGA-DD	0.018028	0	0	0.190747	0	0.151674	0	0.004967
TCGA-2Y-	0.08684	0	0.004309	0.350053	0	0.169945	0	0.017552
TCGA-CC-	0.055937	0.006259	0	0.012999	0	0.244561	0	0.00536
TCGA-DD	0.00766	0	0	0.194299	0	0.345077	0	0
TCGA-DD	0.103733	0	0.019182	0.270211	0	0.070401	0	0.017712
TCGA-FV-	0.049111	0	0.023474	0.125978	0	0.074941	0.012569	0.019609
TCGA-G3-	0	0.032666	0	0.018757	0	0.13576	0	0.022492
TCGA-2Y-	0.017373	0.01099	0	0.125931	0	0.197858	0	0
TCGA-3K-	0.069428	0	0.003846	0.170875	0	0.313366	0	0
TCGA-CC-	0.179758	0	0.022929	0.075835	0	0.217553	0	0.033173
TCGA-ZP-	0.154765	0	0.065981	0.060993	0	0.187081	0.004032	0.005557
TCGA-2Y-	0.026357	0.007715	0.014436	0.102662	0	0.262268	0	0.083433
TCGA-G3-	0.030977	0	0.0027	0.038261	0	0.215184	0	0.005873
TCGA-DD	0.030723	0	0.000182	0.237235	0	0.141767	0.022238	0.016022
TCGA-RG-	0.068939	0	0.062086	0.266996	0	0.041268	0.026088	0.082584
TCGA-DD	0.015784	0.009639	0	0.081248	0	0.177254	0	0
TCGA-DD	0.010728	0	0	0.095622	0	0.256609	0	0
TCGA-5R-	0.119902	0	0.019851	0.10268	0	0.246879	0.004629	0
TCGA-EP-	0.033114	0	0.003151	0.183784	0	0.135844	0.019882	0.028479
TCGA-DD	0.018627	0	0	0.131432	0	0.124291	0	0
TCGA-G3-	0.00702	0	0.0002	0	0	0.360094	0	0.025052
TCGA-ED-	0	0.013852	0	0.007802	0	0.118313	0	0.019316
TCGA-DD	0.048368	0	0	0.258631	0	0	0	0.024774
TCGA-MR	0.038714	0	0.005862	0.12056	0	0.205411	0.011748	0
TCGA-RC-	0.159739	0	0.074683	0.126429	0	0.143397	0.073905	0.051182
TCGA-DD	0.00262	0.006165	0.011993	0.121586	0	0.285827	0	0
TCGA-WX	0.141265	0	0.008278	0	0	0.181459	0	0.02541
TCGA-DD	0.143777	0	0.007301	0.003855	0	0.081536	0	0
TCGA-DD	0.05078	0	0.004595	0.262512	0	0.012476	0.027827	0.038739
TCGA-CC-	0.089756	0	0.005051	0.090807	0	0.214361	0	0.057786
TCGA-DD	0.001505	0	0.000858	0	0	0.075847	0.003779	0.012474
TCGA-WC	0	0.017358	0.003567	0.051008	0	0.216015	0	0
TCGA-DD	0.033653	0	0	0	0	0.27118	0	0.062755
TCGA-DD	0.02147	0	0	0	0	0.148005	0	0.010714
TCGA-DD	0.127061	0	0.058072	0.155182	0	0.285291	0	0.001578
TCGA-DD	0.081741	0	0.007438	0.162658	0	0.174309	0.019137	0.050496

Supplementary table 3

TCGA-5C-	0.001582	0.007161	0.062835	0.237208	0	0.075666	0.014606	0.059737
TCGA-HP-	0.076017	0	0.005765	0.026419	0	0.211567	0	0
TCGA-T1-	0	0.001492	0.031486	0.10866	0	0.162812	0	0
TCGA-XR-	0.000324	0.015056	0	0.015426	0	0.488517	0	0
TCGA-DD	0.01086	0	0.003048	0.0772	0	0.297971	0	0.021883
TCGA-MI-	0.025978	0	0.004705	0.181232	0	0.245309	0.000889	0.001286
TCGA-DD	0.084592	0	0.00118	0.104773	0	0.22768	0	0.053292
TCGA-DD	0.088682	0	0.005895	0.31504	0	0.069386	0.001614	0.013679
TCGA-DD	0.09947	0	0.003796	0.095644	0	0.012706	0	0.005781
TCGA-BC-	0.012862	0	0.0013	0.224739	0	0.150733	0.05778	0.038698
TCGA-BC-	0.044041	0	0.005326	0.155464	0	0.078575	0.081362	0.039367
TCGA-XR-	0.081841	0	0.008261	0.020814	0	0.213617	0	0.002127
TCGA-RC-	0.059141	0	0.007566	0.055316	0	0.169934	0.000584	0.054802
TCGA-BC-	0.041647	0	0.001764	0.064881	0	0.164138	0	0
TCGA-DD	0.009642	0	0.009425	0.018151	0	0.183553	0	0.003638
TCGA-DD	0.074473	0	0	0.197043	0	0.226761	0.064266	0
TCGA-2Y-	0.019564	0	0.009583	0.14423	0	0.153934	0	0.004191
TCGA-ED-	0.208531	0	0.035817	0.21986	0	0.189642	0.01833	0.034893
TCGA-DD	0.012969	0.012057	3.08E-06	0.093037	0	0.191809	0	0.003088
TCGA-G3-	0	0	0	0.067217	0	0.247729	0	0
TCGA-DD	0.01388	0	0	0.094123	0	0.252057	0	0.001063
TCGA-DD	0.041359	0	0	0.061406	0	0.231405	0	0
TCGA-EP-	0.020702	0	0.019713	0.256189	0	0.145064	0.000375	0.014561
TCGA-DD	0.017108	0	0.009686	0.209986	0	0.027331	0.054759	0.066768
TCGA-DD	0.020954	0	0.00846	0.097644	0	0.321717	0.002355	0.004282
TCGA-DD	0.039295	0	0	0.101505	0	0.067475	0	0.086115
TCGA-BD-	0.043999	0	0.004861	0.03684	0	0.19797	0.006556	0
TCGA-GJ-	0.006817	0	0	0.026895	0	0.042532	0.013872	0.036484
TCGA-2Y-	0.046477	0	0.00278	0.029341	0	0.108131	0	0
TCGA-BC-	0.008226	0	0.002022	0.244432	0	0.139537	0.019971	0.073043
TCGA-CC-	0.051881	0	0.00915	0.135875	0	0.13615	0	0.045979
TCGA-CC-	0	0.036852	0	0.241241	0	0.06415	0	0.060634
TCGA-DD	0.041911	0	0.004436	0.087572	0	0.262554	0	0
TCGA-DD	0.002571	0	0.014972	0.415211	0	0	0.051691	0.05598
TCGA-FV-	0.047421	0	0	0.121724	0	0.206547	0	0.012301
TCGA-DD	0.046539	0	0.001088	0.09104	0	0.303707	0	0
TCGA-DD	0.037708	0	0.003697	0.527946	0	0	0.0041	0.032615
TCGA-DD	0.042066	0	0.001314	0	0	0.179848	0	0.01751
TCGA-DD	0.099954	0	0	0.109205	0	0.117575	0	0.019371
TCGA-DD	0.017569	0	0	0.187868	0	0.086519	0	0
TCGA-DD	0.02694	0	0.005049	0.090355	0	0.066367	0.021961	0.022806
TCGA-DD	0.062946	0	0.030618	0.346717	0	0.075907	0.023145	0.045702
TCGA-G3-	0.054449	0	0.005358	0.114568	0	0.241774	0	0.014618
TCGA-DD	0.009914	0	0.000632	0	0	0.335567	0	0
TCGA-CC-	0.095754	0	0.010346	0.160314	0	0.226369	0.059682	0.053917
TCGA-G3-	0.105624	0	0.019935	0.088658	0	0.166855	0	0
TCGA-G3-	0.026205	0.028122	0	0.184048	0	0.19723	0	0.087872
TCGA-RC-	0.027489	0	0.00501	0.102569	0	0.052096	0	0
TCGA-DD	0.029666	0	0.0306	0.307084	0	0.004163	0.070567	0.091129
TCGA-2V-	0.029294	0	0.005273	0.296878	0	0.102177	0.019291	0.048447
TCGA-DD	0	0.001385	0.00206	0.0278	0	0.13635	0	0.010607
TCGA-WX	0.059814	0	0.006609	0.052355	0	0.140925	0	0.017443
TCGA-2Y-	0.018434	0.004022	0.006522	0.101117	0	0.177281	0	0.008802
TCGA-DD	0.019347	0	0.002331	0.129831	0	0.218925	0.020022	0
TCGA-ED-	0.158096	0	0.017897	0.056823	0	0.323066	0	0
TCGA-DD	0.106315	0	0.002654	0.127673	0	0.090683	0	0
TCGA-G3-	0.034703	0	0	0.011102	0	0.146891	0	0
TCGA-FV-	0.073716	0	0.005703	0.176027	0	0.15796	0.004587	0.023488

Supplementary table 3

TCGA-ZP-	0.068444	0	0	0.011033	0	0.163137	0.002799	0
TCGA-DD	0.124023	0	0	0.102872	0	0.260032	0.004539	0.020548
TCGA-DD	0.024962	0	0.006094	0.087572	0	0.188783	0.003551	0
TCGA-G3-	0.002734	0.00304	0	0.02205	0	0.145142	0	0
TCGA-ED-	0.057734	0	0.030589	0.153222	0	0.190646	0	0.027963
TCGA-EP-	0.063815	0	0.007018	0	0	0.194145	0	0.000203
TCGA-BC-	0.109907	0	0.002743	0.10133	0	0.168198	0	0
TCGA-CC-	0.059922	0	0.002065	0.124287	0	0.102262	0	0.028397
TCGA-DD	0.017254	0	0	0.054826	0	0.13732	0	0
TCGA-DD	0	0.006994	0.046745	0.129109	0	0.048337	0.03703	0.041415
TCGA-DD	0.06533	0	0.007942	0.059295	0	0.04312	0.030462	0
TCGA-CC-	0	0.027837	0.016225	0.06927	0	0.140794	0	0.038759
TCGA-DD	0.010269	0	0.002242	0.177409	0	0.074868	0	0.009564
TCGA-DD	0.131777	0	0.016713	0.165671	0	0.034851	0.00338	0.031482
TCGA-G3-	0.087697	0	0.006213	0.172218	0	0.082749	0	0.025231
TCGA-G3-	0.08674	0	0.001088	0.116244	0	0.20339	0	0
TCGA-CC-	0.026439	0	0.006371	0.148527	0	0.192976	0	0
TCGA-CC-	0	0.038362	0.000568	0.197977	0	0.113142	0.026357	0.049695
TCGA-DD	0.039416	0	0	0.173571	0	0.070492	0	0.006301
TCGA-DD	0.030387	0	0	0.395199	0	0.056838	0	0.030342
TCGA-NI-	0.049401	0	0	0	0	0.160138	0	0.024245
TCGA-DD	0.064539	0	0.004851	0.134161	0.013864	0	0	0
TCGA-DD	0.035052	0	0	0.145237	0	0.28635	0	0.013892
TCGA-DD	0.033688	0	0.001199	0.021899	0	0.17921	0.005756	0
TCGA-BC-	0.051102	0	0.006607	0.103869	0	0.219667	0	0
TCGA-RC-	0	0.013739	0.04716	0.162875	0	0.193385	0	0.081184
TCGA-WJ-	0.085216	0	0	0.011828	0	0.332716	0	0
TCGA-DD	0.00332	0.001741	0.015771	0.052098	0	0.093562	0	0.017844
TCGA-CC-	0.074245	0	0.014739	0.17582	0	0.109857	0.088152	0.100798
TCGA-DD	0.039306	0	0.012776	0.14174	0	0.32254	0.004012	0
TCGA-DD	0.046508	0	0	0.260108	0	0.222757	0	0.003731
TCGA-BC-	0.010316	0	0.012885	0.117908	0	0.301715	0	0.031608
TCGA-DD	0.060363	0	0.004614	0.056124	0	0.110462	0	0.006676
TCGA-DD	0.064307	0	0.003474	0.077214	0	0.414934	0.044459	0
TCGA-CC-	0.091298	0	0.011239	0.072877	0	0.030698	0	0.020093
TCGA-DD	0.098026	0	0.007796	0.088785	0	0.276165	0	0
TCGA-2Y-	0.056331	0	0.007621	0.103103	0	0.340292	0.001198	0
TCGA-CC-	0.028981	0	0.005819	0.087365	0	0.077904	0	0.001062
TCGA-DD	0.039543	0	0	0.031367	0	0.162518	0	0
TCGA-RC-	0.022371	0	0.002514	0.13615	0	0.214397	0	0.049484
TCGA-DD	0.066643	0	0.005019	0.076132	0	0.27474	0	0.032801
TCGA-G3-	0.12766	0	0.007619	0.114013	0	0.276241	0	0
TCGA-DD	0.042629	0	0.000292	0.049146	0	0.25172	0	0.005242
TCGA-ZP-	0.058936	0	0.004149	0.117255	0	0.227898	0.012645	0
TCGA-KR-	0.07077	0	0.010168	0.072028	0	0.123845	0	0.002864
TCGA-BC-	0.001227	0	0.005732	0.149898	0	0.221362	0	0.027705
TCGA-ED-	0.049061	0	0	0.171366	0	0.268658	0	0.00374
TCGA-CC-	0.032548	0	0	0.106405	0	0.22386	0	0.062566
TCGA-UB-	0.023541	0	0	0.042114	0	0.23621	0	0.07213
TCGA-ED-	0.050909	0	0.008109	0.281033	0	0.301068	0	0
TCGA-XR-	0.056449	0	0.002909	0.003291	0	0.406617	0	0
TCGA-DD	0.049251	0	0	0.119406	0	0.113415	0	0.061183
TCGA-K7-	0.054324	0	0	0.150436	0	0.22587	0	0
TCGA-ZP-	0.022536	0	0	0.080024	0	0.450817	0	0
TCGA-DD	0.046287	0	0	0.285728	0	0.16811	0	0.021185
TCGA-DD	0.080089	0	0	0.108839	0	0.088721	0	0
TCGA-2Y-	0.022377	0	0.029133	0.221685	0	0.150476	0	0.030686
TCGA-DD	0.028685	0	0.008129	0.167319	0	0.385697	0	0

Supplementary table 3

TCGA-EP-	0.054393	0	0.010404	0.093543	0	0.134015	0	0
TCGA-DD	0.058109	0	0.006305	0.144091	0	0.303076	0	0
TCGA-ED-	0.005952	0.00247	0	0.084857	0	0.095412	0	0.009527
TCGA-LG-	0.010129	0	0	0.048942	0	0.267043	0	0.023075
TCGA-UB-	0.058805	0	0.010021	0.166221	0	0.129975	0.004662	0.093172
TCGA-G3-	0.119502	0	0.009309	0.142307	0	0.022689	0	0.01359
TCGA-DD	0.001326	0	0.00865	0.075056	0	0.062052	0	0.000594
TCGA-LG-	0.143197	0	0	0.089678	0	0.211912	0	0
TCGA-ZS-	0.07611	0	0.009322	0.088294	0	0.132252	0	0.001646
TCGA-K7-	0.038867	0	0.001299	0.17739	0	0.157911	0	0.032122
TCGA-DD	0.053381	0	0.018352	0.407972	0	0	0.012274	0.018881
TCGA-DD	0.009357	0	0	0.077766	0	0.089961	0	0.030187
TCGA-DD	0.002978	0.002228	0.008348	0.056633	0	0.222827	0	0.031955
TCGA-DD	0.136664	0	0.003663	0.193597	0	0.311822	0.017839	0.011679
TCGA-G3-	0.029127	0	0	0	0	0.15132	0	0
TCGA-O8-	0.041575	0	0.00685	0.217662	0	0.105949	0.00548	0
TCGA-ZP-	0.10026	0	0.006488	0.061479	0	0.117214	0	0
TCGA-G3-	0.040957	0	0.005115	0.046464	0	0.071388	0	0.022911
TCGA-DD	0.016646	0.011877	0	0.073607	0	0.139066	0	0

Supplementary table 3



T cells reg	T cells gan	NK cells re	NK cells ac	Monocyte	Macroph	Macroph	Macroph	Dendritic c
0	0.037974	0.017675	0.02393	0.158097	0	0.049659	0.351158	0.011901
0	0.022976	0	0.030992	0.112064	0.06664	0.050159	0.381044	0
0	0.000102	0	0.062259	0.081174	0.121904	0.108944	0.330358	0.013381
0.006104	0.048486	0.003015	0.049456	0.037835	0	0.058428	0.298769	0.004402
0	0.022759	0	0.046761	0.260065	0.102741	0.067865	0.189045	0
0	0.02619	0	0.032309	0.136074	0.032031	0.073886	0.434971	0
0.003404	0.047351	0	0.05654	0.00519	0.046486	0.043646	0.428407	0
0.002102	0.010091	0	0.095868	0.057922	0.032302	0.040614	0.294163	0
0	0.003098	0	0.065486	0.122858	0	0.039385	0.159438	0.028039
0.000769	0	0	0.051428	0.053874	0	0.054213	0.482599	0
0.012764	0.006893	0.003255	0.054482	0.080772	0.066267	0.122079	0.326559	0.038626
0	0	0	0.063358	0.157686	0	0.09782	0.375553	0
0	0	0.025593	0.005631	0.048693	0.005919	0.137419	0.254518	0.006074
0.031752	0.005131	0.023563	0	0.015169	0.004424	0.119835	0.212073	0.000646
0.033908	0	0	0.01059	0.016825	0	0.172254	0.170183	0.029202
0.012429	0	0.045425	0.022681	0.096622	0	0.059778	0.277196	0.009413
0	0.037049	0	0.074866	0.086771	0	0.036996	0.330941	0
0	0.014395	0	0.061743	0.138341	0.095399	0.027447	0.284206	0
0.006418	0	0	0.011319	0.022082	0	0.132393	0.24591	0
0	0.024699	0	0.026514	0.013529	0.025302	0.113353	0.275927	2.67E-05
0	0.049429	0	0.004721	0.058821	0	0.04157	0.367772	0
0.028414	0.005744	0	0.090162	0.048651	0.094702	0.074987	0.177656	0.009718
0	0	0.052433	0.013664	0.06226	0.00193	0.024656	0.389478	0
0.024032	0.016933	0	0.030586	0.080215	0.043242	0.203124	0.229471	0.019846
0	0.022235	0.030469	0.019719	0.174942	0.026251	0.050211	0.363344	0
0.026338	0.004437	0.020887	0.078537	0.132692	0.112131	0.070587	0.252361	0
0.001838	0	0	0.058176	0.079688	0.074458	0.071791	0.143925	0
0.071203	0.000311	0	0.056149	0.074823	0.027303	0.131287	0.218822	0
0.0239	0.045986	0.009187	0.003689	0.00094	0.017694	0.144867	0.354785	0.003648
0	0.036778	0	0.077086	0.021261	0.141858	0.087122	0.202151	0.023827
0.00629	0.009158	0.004096	0.031199	0.052046	0.045025	0.075246	0.270199	0.002157
0	0.001892	0	0.062844	0.064673	0.245365	0.04719	0.178009	0
0.002777	0.054014	0	0.071828	0.036975	0	0.115169	0.251119	0.017082
0.000362	0	0	0.038033	0.035313	0.020562	0.077531	0.184453	0.063788
0	0.024598	0.006151	0.02778	0.009973	0.061791	0.117902	0.096449	0.002835
0	0.07546	0	0.044729	0.069226	0.064402	0.053794	0.306872	0.002294
0	0.032463	0	0.056699	0.038106	0.031528	0.088881	0.346256	0.020022
0.006131	0.034717	0.045696	0	0.10971	0	0.12734	0.19909	0.001066
0.002277	0.068226	0.010981	0.005941	0.090885	0	0.025912	0.273734	0
0.028183	0	0.03296	0.033982	0.049165	0.004381	0.033374	0.428568	0
0	0.084137	0.003137	0.040997	0.085176	0.040388	0.076477	0.353627	0
0	0	0	0.02965	0.130029	0.098257	0.032363	0.225092	0
0.024657	0	0.00445	0.038552	0.014894	0.033529	0.086236	0.200361	0.028535
0.00526	0	0	0.018996	0.037269	0	0.135452	0.219768	0.004448
0	0	0.045443	0.019285	0.205992	0.026337	0.079308	0.298101	0
0.021704	0.062735	0.014819	0	0.003257	0.001808	0.14218	0.22589	0.017325
0.011486	0	0	0.045998	0.038525	0.031387	0.103411	0.125357	0.026839
0.044626	0.013682	0.025409	0.062504	0.024777	0.024764	0.058679	0.30509	0.002831
0.010758	0	0	0.050388	0.025393	0.042517	0.303182	0.042438	0.00731
0.009059	0	0.06518	0.041214	0.122728	0.027764	0.049973	0.201587	0
0.02791	0.041073	0	0.058313	0	0.03516	0.13347	0.130337	0.020728
0.01266	0.018944	0	0.027244	0.033989	0.011141	0.106845	0.235032	0.01911
0.01555	0	0	0.071736	0.040743	0.0293	0.134835	0.080391	0.017165
0.041219	0	0	0.028485	0	0.158863	0.063745	0.105006	0.016287
0.026663	0	0	0.09523	0.013494	0.030651	0.069729	0.125891	0.123497
0.015194	0.006529	0	0.053484	0.026856	0.029864	0.160834	0.059045	0.008317
0.030547	0	0	0.093272	0.084702	0.173626	0.024249	0.169823	0.003865

Supplementary table 3

0	0.075427	0	0	0.002284	0.158099	0.01297	0.240622	0.003514
0.014098	0.010675	0	0.10793	0.043542	0.074564	0.093065	0.194017	0.011212
0.099	0	0.000156	0.03766	0.019499	0.304178	0.125013	0.10713	0.037474
0.045832	0	0	0.0979	0.031664	0.126618	0.019395	0.262054	0.028708
0.02108	0	0	0.071294	0.021304	0.24534	0.058585	0.191529	0.008343
0.023446	0	0	0.009167	0	0.239644	0.02807	0.320206	0.042626
0.034352	0.011314	0	0.052618	0.009213	0.165209	0.029258	0.297905	0
0.082679	0	0	0.075274	0.009257	0.106459	0.077151	0.20707	0.01731
0.084446	0	0.008922	0.024209	0	0.150074	0.084246	0.131809	0.006637
0.132838	0.00647	0	0.073399	0	0	0.026681	0.184922	0.019199
0.020185	0.01668	0	0.065237	0.010353	0.188441	0.10398	0.117334	0.060293
0.060448	0	0	0.060916	0.024921	0.334915	0.033477	0.176557	0.001685
0.009407	0	0	0.008079	0.009038	0.075983	0.104624	0.197631	0.180759
0.034085	0	0	0.010623	0.010227	0.424197	0.089799	0.103639	0.019519
0	0	0	0.071998	0.05472	0.137691	0.047928	0.173163	0.005907
0.040308	0	0.001689	0.025761	0	0.099605	0.056132	0.197004	0.077441
0.054989	0	0	0.052688	0.005499	0.046804	0.041371	0.088084	0.033311
0.014234	0	0	0.057434	0.026987	0.078996	0.133836	0.102537	0.002003
0.050109	0	0.003166	0.127095	0.02491	0.248344	0.03868	0.117105	0
0.049275	0	0	0.086196	0.007437	0.083224	0.106507	0.083256	0.01323
0.034916	0	0.011187	0.016897	0.025437	0.028925	0.087952	0.138721	0.141322
0	0.097883	0	0.041548	0	0.110404	0.047922	0.14293	0.031913
0.063219	0	0	0.052695	0.028188	0.254771	0.076929	0.184996	0
0.057589	0.005686	0	0.038694	0.011181	0.328929	0.091916	0.09466	0.049129
0.024424	0	0	0.05225	0.021376	0.061047	0.061782	0.116162	0.055181
0.03295	0	0	0.125779	0.01913	0.036362	0.091828	0.183134	0.040973
0.029121	0	0	0.040004	0.000963	0.098254	0.093832	0.201395	0.008388
0.077587	0	0	0.032805	0.012047	0.219542	0.059545	0.119751	0.017202
0.064844	0	0.000373	0.037858	0.014053	0.097483	0.100607	0.307423	0.011012
0.030892	0	0	0.021742	0.025393	0.315544	0.089172	0.089704	0.004927
0.05574	0	0.01221	0.051444	0.139938	0.013523	0.07691	0.18395	0
0.05584	0	0	0.040737	0.00936	0.142678	0.136474	0.125115	0.058318
0.091981	0	0	0.068431	0	0.099396	0.032517	0.280808	0.076611
0.002422	0	0	0.097391	0.060909	0.067445	0.138878	0.116103	0.011152
0.000676	0	0	0.042898	0.037177	0.168155	0.036471	0.239383	0.005764
0.045202	0.008043	0	0.033718	0.032695	0.082084	0.120809	0.20616	0.069911
0.053192	0	0	0.052707	0.001611	0.079077	0.080876	0.184361	0.069902
0.012769	0.003147	0	0.050447	0	0.530581	0.021869	0.224717	0.002779
0.010986	0	0	0.029346	0.027146	0.039908	0.164951	0.154153	0.052585
0	0	0	0.035945	0.026442	0.154017	0.117825	0.232222	0.1524
0	0	0.031794	0	0.032411	0.094086	0.004429	0.351132	0
0.004616	0.031535	0	0.052763	0.042191	0	0.048026	0.325841	0.004693
0.115745	0	0	0.037265	0.00305	0.190408	0.061297	0.071133	0.031576
0.042027	0	0	0.062815	0.015528	0.022594	0.065863	0.121128	0.121713
0	0	0	0.038509	0.010815	0.017667	0.043745	0.02061	0.00073
0.119159	0	0	0.0334	0	0.167795	0.051016	0.085956	0.090292
0	0	0.040013	0.089088	0.016165	0.055597	0.139438	0.205949	0.054945
0.067695	0	0	0.014483	0.025388	0.021425	0.101619	0.116022	0.011569
0.042801	0	0	0.051256	0.053176	0.233276	0.041335	0.22882	0
0.054027	0	0	0.018852	0.016019	0.048883	0.074544	0.118178	0.074341
0.023966	0.032594	0	0.048468	0	0.168412	0.056732	0.132062	0
0.035536	0	0.019487	0.049633	0.047449	0.049648	0.136456	0.142274	0.017858
0.016878	0	0	0.0189	0.040211	0.193242	0.103059	0.218274	0.044621
0	0	0	0.039564	0.013541	0.071387	0.140742	0.138643	0.015577
0.065113	0.00952	0	0.073455	0.008866	0.117514	0.114738	0.224821	0.087371
0.016698	0	0	0.141236	0.031737	0.000936	0.036252	0.274311	0
0.027618	0.005137	0.03126	0.038637	0.092559	0.05354	0.075606	0.267927	0.000394
0	0	0	0.03971	0.005868	0.128995	0.092997	0.217281	0.030709

Supplementary table 3

0.042653	0.005627	0	0.01543	0.00457	0.060051	0.110619	0.084033	0.062785
0.025711	0	0	0.062009	0.001667	0.178317	0.062588	0.353522	0.006569
0.057822	0.032004	0	0.062654	0	0.182677	0.117706	0.191248	0.000328
0.013099	0	0	0.023611	0	0.130683	0.082164	0.130209	0.037511
0	0	0	0.089296	0.027145	0.014091	0.039622	0.227337	0.003249
0.022454	0	0	0.063044	0.01386	0.043476	0.087137	0.107476	0.007539
0.030449	0.006303	0	0.064868	0.032891	0.057897	0.065355	0.203517	0
0.039365	0	0	0.033379	0.036841	0.068281	0.12164	0.144228	0.075375
0	0	0	0.048637	0.016539	0	0.118365	0.339599	0.009305
0.099112	0	0	0.01098	0.017584	0.171593	0.084895	0.112619	0.041931
0.002777	0	0	0.008841	0.010741	0.062021	0.104548	0.258088	0.006125
0.019043	0	0	0.064962	0.009657	0.055838	0.030928	0.370965	0.004296
0.024987	0.03759	0	0.043527	0.035024	0	0.009404	0.410532	0
0.019461	0	0.004506	0.089697	0.030553	0.083298	0.019756	0.200572	0.005625
0.034551	0	0.00726	0.001492	0.004971	0.167278	0.150132	0.13295	0.025772
0.030356	0	0	0.023425	0	0.560812	0.065714	0.129635	0.006671
0.011301	0	0	0.046367	0.20584	0.002047	0.050823	0.377474	0.002587
0.014283	0.00894	0	0.041466	0.019613	0.070442	0.029481	0.258857	0.012631
0.030127	0	0.034269	0.073839	0.030253	0.128053	0.047415	0.330473	0.003689
0.050864	0	0	0.125789	0.000368	0.191713	0.058324	0.051649	0.01827
0.007208	0.011104	0	0.041536	0.040691	0.073712	0.178846	0.133179	0.072686
0.003315	0.01557	0	0.054847	0.016477	0.013055	0.142118	0.162189	0.00847
0.025804	0.021015	0.029599	0	0	0.271302	0.064533	0.219242	0
0.032636	0	0	0.057611	0	0.068818	0.091811	0.131391	0.011498
0.04287	0	0.045724	0	0.032687	0.182857	0.03288	0.27844	0.045721
0.029309	0.02057	0	0.100978	0.00076	0.123468	0.109043	0.163085	0.026246
0	0	0	0.055574	0.006806	0.032146	0.118943	0.223158	0.080874
0.098396	0	0	0.034366	0.017822	0.197325	0.04573	0.096366	0.013642
0	0	0	0.122125	0.031715	0.062348	0.134767	0.143941	0.015177
0	0	0	0.046223	0.006504	0.096183	0.024514	0.246519	0.076197
0.016854	0.001495	0	0.020694	0.016091	0.079992	0.07571	0.145229	0.027829
0.041369	0	0.027489	0.066976	0.093132	0.018505	0.105144	0.139545	0.023178
0	0	0.04273	0.052095	0.081146	0.065608	0.133869	0.177432	0.023915
0.04926	0.052648	0	0.028326	0.04433	0.013451	0.07635	0.115953	0.00232
0.027843	0	0	0.114629	0	0.149033	0.074063	0.103774	0
0.017165	0	0	0.050452	0.059127	0.015764	0.0229	0.516942	0
0.061591	0	0	0.00872	0.012386	0.055839	0.055299	0.089121	0.015398
0	0	0	0.028106	0	0.210079	0.087078	0.118259	0.01892
0.009369	0.027388	0	0.085234	0	0.05458	0.073391	0.194671	0.035541
0.071208	0	0	0.037538	0	0.140703	0.092106	0.065199	0.067131
0.11651	0	0	0.098434	0.014758	0.081314	0.037271	0.117221	0.005197
0.015638	0	0	0.001508	0.012201	0.039365	0.111036	0.208425	0.006389
0.020413	0	0	0.024398	0	0.31523	0.075428	0.137661	0.037077
0.021329	0	0.004943	0.12693	0.109346	0.142869	0.016325	0.160391	0.021096
0	0	0	0.030883	0.019631	0.038299	0.129692	0.172614	0.042134
0	0	0	0.07546	0	0.076887	0	0.288803	0
0.021802	0	0	0.031041	0.04245	0.007989	0.149948	0.142119	0.207559
0.005303	0.029758	0.025702	0	0.018206	0.225456	0.100827	0.125866	0.019219
0.023101	0	0	0.058053	0.013677	0.034214	0.102952	0.254559	0.07996
0.063188	0	0	0.06908	0	0.218848	0.093437	0.087407	0.02107
0.00289	0	0	0.073543	0.034887	0.238748	0.065472	0.220992	0.008798
0.012343	0	0	0.100028	0.028795	0.135641	0.085431	0.277274	0.020537
0.047124	0	0	0.077869	0.004627	0.122672	0.086271	0.205678	0.106285
0.013088	0.010781	0	0.052296	0.045687	0.287488	0.037198	0.18189	0
0.007476	0	0	0.111389	0.015031	0.046787	0.182346	0.114457	0.018828
0.036646	0	0	0.030974	0.003167	0.033257	0.08413	0.065477	0
0.03972	0.001465	0	0.039132	0.016367	0.014839	0.039782	0.226857	0.090903
0.034753	0	0	0.082779	0.02344	0.195773	0.037753	0.158022	0

Supplementary table 3

0.021773	0	0	0.088166	0.011701	0.304702	0.003952	0.232996	0
0.045962	0	0	0.106214	0.017585	0.097861	0.075242	0.129582	0.014267
0.020581	0	0	0.058952	0.033005	0.105545	0.087379	0.261634	0
0.043572	0	0.004034	0.027125	0.015326	0.243384	0.094948	0.130357	0.019162
0.032221	0	0	0.03584	0.10321	0.019823	0.084507	0.202126	0.037107
0.003419	0	0.025938	0.015337	0.014383	0.03672	0.104633	0.227767	0.039843
0.016934	0	0.00828	0.046091	0.012606	0.134336	0.098475	0.16933	0.019468
0.07297	0	0	0.038138	0.003274	0.03722	0.05467	0.438343	0
0.0236	0.00204	0	0.072765	0.014007	0.022611	0.056627	0.16756	0.031099
0.018005	0.012153	0	0.040225	0	0.302604	0.082123	0.135833	0.046379
0.059712	0	0	0.022656	0.018047	0.170416	0.059975	0.051506	0.030191
0.06325	0	0	0.047507	0	0.082482	0.050027	0.07654	0.088782
0.007138	0.016445	0	0.116082	0.069023	0.033826	0.094199	0.112574	0.020856
0.032644	0	0	0.040913	0	0.168136	0.035925	0.280856	0.000178
0.045645	0	0.007418	0.021239	0.007878	0.103535	0.061247	0.194025	0.014475
0.045571	0	0	0.04228	0.009684	0.122664	0.059494	0.201186	0.012561
0.099178	0.005287	0	0.038713	0	0.19422	0.067403	0.064298	0
0.019456	0.001839	0	0.066713	0	0.150827	0.137572	0.155775	0.033899
0.066944	0.000184	0	0.04546	0.016721	0	0.092838	0.174845	0.054646
0.003996	0.009577	0.004169	0.019288	0.022283	0.025333	0.047294	0.19314	0
0	0	0	0.07358	0.006392	0.016875	0.062741	0.131394	0.012338
0.023829	0	0	0.079846	0.017248	0.04945	0.05952	0.217754	0.002769
0.006046	0	0.013091	0.024683	0.0426	0.119413	0.073023	0.238486	0.004886
0	0	0	0.143623	0.102108	0.033399	0.129013	0.151816	0.009832
0.052304	0	0	0.023447	0	0.232617	0.095553	0.071646	0.045712
0	0	0.05373	0	0.001572	0.068137	0.186636	0.284583	0.001617
0	0	0.070326	0.103938	0.061106	0.026053	0.074923	0.252839	0.001955
0.014035	0.000719	0	0.037919	0	0.119526	0.127451	0.244189	0.032949
0.040311	0	0	0.021693	0.019608	0.113896	0.063716	0.072821	0.00574
0.043329	0	0	0.03808	0	0.321257	0.040852	0.15854	0.025244
0.028609	0.051504	0	0.03316	0.023398	0.192319	0.047036	0.206457	0.017636
0	0.015027	0.015115	0.018002	0.002059	0.129051	0.077151	0.225696	0.055458
0.088319	0	0	0.076139	0.020233	0.131223	0.055528	0.148348	0.010687
0.069962	0	0	0.0481	0.004644	0.180064	0.098822	0.092237	0.032288
0.030217	0	0	0.018424	0.02056	0.059216	0.116511	0.156768	0.054318
0.017827	0	0	0.03104	0.047344	0.005415	0.048021	0.132672	0.033115
0.058168	0	0.002871	0.026399	0.008049	0.107137	0.151313	0.093276	0.054035
0.004437	0.102439	0	0.054028	0.01862	0.17136	0.026394	0.235556	0.010406
0.044545	0.026727	0	0.005125	0	0.116049	0.110024	0.184099	0.013622
0	0	0.203131	0.017887	0.035672	0.013743	0.088861	0.259495	0.023736
0.074201	0	0	0.045833	0.026834	0.040564	0.026837	0.152639	0.115316
0.045761	0	0	0.014896	0.009233	0.459904	0.078087	0.019777	0.108258
0	0	0.030877	0.077753	0.051751	0.11925	0.146363	0.16877	0.022963
0.066706	0.022546	0	0.070085	0	0.11146	0.111285	0.142964	0.036075
0.003516	0.039794	0	0	0.022385	0.040567	0.091365	0.242186	0
0	0.096955	0	0.124194	0.001507	0.20071	0.07405	0.260489	0.001652
0.050128	0	0	0.064458	0.018252	0.029398	0.072811	0.124526	0.097422
0.076757	0	0	0.003152	0.011207	0.0366	0.133846	0.181734	0.007559
0.064039	0	0.007943	0.033515	0.026555	0.021436	0.113333	0.118756	0.023228
0.056883	0.026277	0	0.07048	0.005209	0.05204	0.063681	0.133676	0.033779
0.05523	0.038439	0	0.03159	0	0	0.061325	0.201112	0
0.009142	0	0	0.030279	0	0.317043	0.04865	0.218997	0
0	0.020736	0	0.095914	0.042645	0.076101	0.052234	0.537977	0
0.014327	0	0	0.03898	0.000579	0.419934	0.030955	0.07077	0.009304
0.020214	0	0	0.031076	0.004236	0.406732	0.046406	0.130969	0.004074
0.051608	0	0	0.039382	0.005986	0.048296	0.030694	0.150192	0.115586
0.067426	0.002829	0	0.067344	0.005085	0.051677	0.112112	0.167773	0.078265
0.057112	0	0	0.090617	0.022223	0.101664	0.066298	0.16398	0.034878

Supplementary table 3

0.001391	0	0	0	0.066694	0.189049	0.037896	0	0.012813
0.000528	0	0	0.052322	0.017418	0	0.093659	0.282445	0.009205
0.032395	0	0	0.058647	0.023269	0.109043	0.098628	0.122474	0.01658
0.009249	0	0	0.021658	0.030868	0.11829	0.130505	0.163562	0.040796
0.052778	0	0	0.019593	0.01013	0.084389	0.076162	0.145613	0.031364
0.000977	0	0	0.065025	0.051594	0.039134	0.058961	0.17986	0.015023
0	0.04647	0.001126	0.077374	0.042491	0.002351	0.134393	0.258383	0
0.003797	0	0	0.052757	0.052049	0.120584	0.08736	0.321848	0.008318
0	0	0.080876	0.045943	0.026699	0.031833	0.037246	0.358204	0.011313
0.03828	0.016742	0	0.027661	0.008208	0	0.11644	0.220233	0.072621
0.012692	0	0	0.034223	0.006799	0.110137	0.06033	0.123788	0.347043
0.055057	0	0.014991	0.01616	0.016465	0.046532	0.111148	0.064709	0.070456
0.012912	0	0.012868	0.057741	0.093446	0.058404	0.082391	0.178171	0.064695
0	0	0	0.049303	0	0.128839	0.045163	0.244767	0.000903
0.023311	0	0.051801	0.059026	0.075085	0.109804	0.043098	0.267342	0.001845
0	0	0	0.032174	0.204616	0.032456	0.05577	0.20841	0.006776
0.062347	0	0	0.030713	0	0.422503	0.068904	0.085115	0.028218
0	0.04366	0.044695	0.018358	0.096545	0	0.082313	0.258895	0.000678
0.00146	0	0	0.025431	0.001427	0.079884	0.035619	0.34998	0
0.04197	0	0	0.090011	0.107103	0.078495	0.044576	0.269516	0.023771
0.058881	0	0	0.068946	0.022281	0.053124	0.066676	0.263052	0.011189
0	0	0	0.028289	0.031057	0.001476	0.148522	0.136887	0
0.078195	0	0	0.077818	0.010041	0.172173	0.054583	0.133645	0.029327
0.04903	0	0	0.088525	0.030654	0.007513	0.076917	0.076012	0.005103
0.022446	0.003129	0	0.082706	0	0.244967	0.077519	0.146464	0.024031
0.043842	0	0	0.066503	0.017095	0.059138	0.050699	0.116185	0.059035
0	0.016715	0	0.093632	0.01466	0.086254	0.061324	0.120655	0.000652
0.026051	0	0.01837	0.030122	0.001526	0.222861	0.073531	0.231193	0.017191
0.017225	0	0.001691	0.002583	0	0.578106	0.03291	0.120324	0
0.065358	0	0	0.077329	0.002019	0	0.059539	0.215578	0.151395
0.010242	0	0	0.120911	0.015725	0.067193	0.06196	0.118171	0
0.056053	0	0	0.042632	0	0.058521	0.05073	0.074038	0.120471
0	0	0	0.01171	0	0.112399	0.103202	0.218464	0
0.057384	0	0	0.049115	0.010267	0.064347	0.086278	0.113315	0.076455
0.020414	0	0	0.107558	0	0.383729	0.016047	0.120986	0.005362
0.017141	0.019325	0	0.05977	0	0.126875	0.144911	0.075344	0.008983
0.0654	0	0	0.089587	0	0.159606	0.053266	0.047791	0.003948
0	0.039302	0	0.089326	0.01083	0.069423	0.107727	0.244384	0.008759
0.017276	0.038347	0	0.05378	0	0.052754	0.064454	0.325997	0
0	0	0	0.004758	0.039288	0.036807	0.123432	0.260461	0.014352
0.028278	0	0	0.035517	0.025748	0.090239	0.162913	0.168495	0.029653
0.05912	0	0	0.062452	0.030121	0	0.038551	0.414729	0.008434
0.007342	0.053159	0	0.063011	0.053794	0	0.110913	0.163534	0
0.008354	0	0	0.064411	0.035387	0.181968	0.079779	0.376827	0
0.022662	0	0.049871	0.041983	0.027975	0.038227	0.045252	0.331336	0.005876
0.033163	0	0.055372	0.000513	0.000145	0.111325	0.061024	0.262349	0.019086
0.000767	0	0.032834	0.004755	0.001647	0.105883	0.055494	0.138627	0.020602
0.055088	0	0	0.033503	0.010734	0.062979	0.141147	0.087852	0.119937
0.019788	0	0.202256	0	0.024348	0.327325	0.022903	0.018376	0
0	0	0.087007	0.049922	0.038571	0.049924	0.066229	0.305597	0
0.112871	0	0	0.077783	0.008143	0.074348	0.090344	0.147813	0.014461
0.058907	0	0.010191	0.058989	0.000845	0.155494	0.064505	0.149288	0.002154
0.032669	0.027973	0.02863	0	0.003759	0.362048	0.030312	0.281	0.077197
0.012507	0	0	0.126634	0.018909	0.108495	0.07511	0.210916	0.034539
0.003608	0	0	0.100852	0.136982	0.179043	0.028793	0.14763	0
0.017219	0.051993	0	0.020943	0	0.306846	0.091624	0.186956	0.003301
0.027933	0.011098	0	0.109607	0.014852	0.013181	0.010926	0.124544	0.001333
0.034882	0	0	0.024742	0.029194	0.169817	0.112597	0.060033	0.024086

Supplementary table 3



0.07068	0	0	0.023874	0.004934	0.170674	0.090183	0.099722	0.0429
0.003227	0.028504	0.003817	0.068261	0.059984	0.033725	0.104518	0.133582	0.05019
0.044665	0	0	0.03409	0.015527	0.027495	0.064758	0.255571	0.200605
0	0	0	0.042383	0	0.009229	0.068841	0.260516	0.051023
0.061676	0	0	0.052357	0	0.069557	0.086214	0.26886	0.050374
0.169074	0.001316	0.008045	0.004579	0.006129	0.106567	0.074139	0.152483	0
0.029869	0	0	0.055639	0.001574	0.197724	0.081901	0.038891	0.081748
0.045875	0	0	0.055407	0.033995	0.051957	0.082465	0.163742	0.026224
0	0.020709	0	0.074575	0	0.036745	0.05074	0.19316	0.009419
0.039031	0	0	0.041027	0.00104	0.077173	0.077223	0.136079	0.059439
0.031334	0	0	0.007959	0	0.251264	0.058013	0.134765	0.022591
0.02798	0.020756	0	0.097111	0.00273	0.088585	0.133194	0.106922	0.080874
0.10243	0	0	0.020237	0.004678	0.293809	0.065617	0.129432	0.014676
0.058621	0	0	0.046979	0	0.411454	0.03392	0.148539	0.012873
0.026648	0	0	0.095776	0.040632	0.146664	0.099876	0.329851	0.003273
0.030422	0	0.009407	0.022207	0.041711	0.015567	0.059976	0.118631	0.082906
0.052447	0.001347	0	0.082166	0.035224	0.024425	0.12368	0.242128	0.023291
0.059867	0.013178	0	0	0	0.079701	0.083302	0.044114	0
0	0.051157	0	0.077393	0.004335	0.046455	0.062802	0.209273	0.033353
0.015922	0	0.026813	0.009435	0.034835	0.110146	0.054707	0.266246	0.045074
0.04237	0	0.040952	0.029431	0.038451	0.09127	0.078526	0.231589	0.022568
0.045913	0	0	0.054637	0.015267	0.189921	0.072036	0.229314	0.027598
0.064077	0.021458	0	0.080689	0.001137	0.099189	0.119422	0.061504	0.036589
0.085301	0.074084	0.045243	0.039926	0	0.161781	0.084328	0.085958	0.004596
0	0	0	0.000603	0.018682	0.145412	0.202707	0.047396	0.020469
0	0	0	0.079729	0.02405	0.116738	0.125212	0.196473	0.045533
0.035546	0	0	0.094002	0.016243	0.231474	0.090338	0.149293	0.024531
0.040593	0.00761	0.015478	0	0	0.627462	0.073978	0.101046	0.003108
0.026787	0.003971	0	0.0296	0.005597	0.201782	0.15922	0.288488	0.039903
0.011674	0	0	0.105566	0.014457	0.071011	0.129294	0.048703	0.061697
0.069546	0	0	0.031558	0.022097	0.26911	0.070095	0.058601	0.013553
0.033005	0.027012	0	0.048787	0.015089	0.025039	0.153741	0.216183	0.005246
0.012608	0	0	0.058086	0	0.245876	0.038656	0.168888	0.043742
0.057354	0.03249	0	0.045232	0.016364	0.061856	0.083176	0.119605	0.0194
0.054653	0.024312	0	0.076779	0.036022	0.041319	0.085952	0.138474	0.040673
0.004768	0	0	0.069976	0.01751	0.118083	0.102091	0.157456	0.012384
0.045099	0.034886	0	0.095682	0.008228	0.007983	0.055679	0.051911	0.021713
0	0	0	0.052892	0.091027	0.047707	0.105319	0.304689	0
0.01319	0	0	0.057148	0	0.151419	0.047511	0.228114	0.100857
0.008651	0	0	0.067023	0.023282	0.117626	0.117767	0.13059	0.011465
0.011946	0	0	0.067713	0.079531	0.116611	0.162062	0.117458	0.027574
0.058447	0.003354	0	0.061424	0.017656	0.053883	0.070107	0.110625	0.035795
0.006256	0.026104	0.107051	0	0	0.069442	0.075772	0.273819	0
0.010743	0	0.066487	0.050676	0.050862	0.025151	0.057812	0.194465	0
0.010344	0	0	0	0.004104	0.054932	0.040402	0.211884	0.001981
0.065394	0	0.020772	0.038377	0	0.180296	0.044031	0.176211	0.059308
0.039169	0.011215	0	0.013591	0.01064	0	0.128811	0.228386	0.012679
0.005973	0	0	0.028539	0.007499	0.150175	0.10876	0.149776	0.018994
0.060384	0.055385	0	0.02758	0	0.056707	0.081613	0.148753	0.007543
0.074999	0	0	0.050242	0	0.172293	0.094713	0.051885	0.007437
0.043221	0	0	0.034214	0	0.303522	0.020279	0	0.121171
0	0.023838	0	0.085833	0.137655	0.033918	0.087418	0.308599	0
0.061454	0	0	0.085445	0.028035	0.333266	0.073741	0.031968	0.02476
0	0	0	0.067343	0.037991	0.021976	0.038716	0.301203	0.013849
0.089558	0	0	0.117163	0.028792	0.037829	0	0.103788	0
0	0	0.035712	0.036777	0.008257	0	0.017769	0.292266	0
0.000519	0	0	0.109588	0.048468	0.074619	0.125809	0.133038	0.016189
0.065942	0.00161	0	0.035534	0.011956	0.062623	0.111749	0.179005	0.059034

Supplementary table 3

0.013619	0	0	0.028153	0.047202	0.04444	0.167205	0.181993	0.015113
0	0	0	0	0.091457	0	0.076777	0.278803	0
0.01578	0.06923	0	0.003316	0	0.239725	0.019975	0.289498	0.028353
0.043296	0	0	0.139023	0.057915	0.068314	0.070887	0.345713	0.018376
0.003215	0	0.006132	0.050587	0.012733	0.055249	0.128561	0.091272	0.126879
0.004955	0	0.014107	0.01303	0.002007	0.196653	0.20396	0.157894	0.011302
0.015295	0.016683	0.005139	0.015643	0.092605	0.044503	0.064662	0.338442	0
0	0	0.024975	0.089959	0.016092	0.015945	0.072526	0.188572	0
0	0	0	0.079998	0.055927	0.153021	0.181449	0.000854	0.008997
0.030156	0	0	0.009091	0.028622	0.364873	0.066539	0.13991	0.018515
0.05374	0.051634	0	0.067166	0.001822	0.161907	0.066339	0.243639	0.014967
0.014406	0	0	0.043543	0.014893	0.279573	0.05245	0.269842	0.016945
0.036632	0	0	0.077545	0.018035	0.153837	0.082853	0.24584	0.011999
0.017555	0.021111	0	0.034824	0.013293	0.052555	0.162525	0.145717	0.006439
0.044114	0	0	0.045826	0.033182	0.082706	0.062566	0.31157	0.004524
0.091822	0	0	0.051046	0.006438	0.013753	0.207497	0.114885	0.024158
0.062203	0	0	0.031699	0.086669	0.097638	0.060524	0.18117	0.063996
0	0.122213	0	0.027839	0	0	0.104237	0.278017	0.017846
0	0	0.111796	0.00881	0	0.025595	0.085034	0.400868	0.010935
0.028313	0	0	0.100018	0.034747	0.012704	0.034691	0.172085	0.012202
0.013018	0	0.076637	0.000751	0.079175	0.31588	0.075298	0.163463	0.008732
0	0	0	0.07412	0.035484	0.01252	0.050621	0.495868	0.011462
0.025506	0.057916	0	0.082392	0.00699	0.04608	0.107854	0.086473	0.03812
0.041663	0	0	0.070496	0	0.231089	0.079338	0.260319	0.00285
0	0.01806	0	0.054226	0.013595	0.014672	0.119958	0.189192	0.013952
0.07333	0	0	0.066347	0.00659	0.134681	0.086642	0.08138	0.005188
0	0.019255	0	0.032565	0	0.309268	0.157627	0	0.007037
0.02145	0	0	0.120266	0	0.390899	0.057623	0.045245	0.120934
0.052305	0	0	0.000286	0.01177	0.21695	0.046938	0.068328	0.039811
0.014176	0	0	0.059827	0.027422	0.062244	0.05045	0.072982	0.135081
0.011754	0.007509	0	0	0	0	0.103512	0.201158	0.140852
0.034711	0	0	0.056554	0.025742	0.123663	0.091028	0.10557	0.024606
0.058673	0.054312	0.024248	0.058868	0	0.048047	0.060628	0.401841	0
0.033484	0	0	0.010294	0.017808	0.005168	0.043787	0.154679	0.086868
0	0	0	0.062047	0	0.323745	0.030755	0.203938	0
0.003823	0	0	0.066793	0.020122	0.048385	0.164392	0.098936	0.043646
0.004854	0	0	0.017341	0.009605	0.124199	0.080271	0.166253	0.0569
0.014686	0	0	0.00773	0	0.484038	0.10015	0.155584	0.001898
0.007824	0	0	0.102284	0.007893	0.072074	0.22943	0.112721	0.031715
0.053762	0	0	0.110289	0	0.170384	0.142911	0.032631	0.012442
0.00151	0	0	0.046472	0	0.184197	0.099299	0.127784	0.013182
0.053589	0.020012	0	0.052139	0.000163	0	0.079887	0.166979	0.024334
0.047852	0.009002	0	0.080232	0.011349	0.120971	0.056647	0.199116	0.024934
0.021351	0	0	0.050237	0.013673	0.045375	0.17235	0.120498	0.048382
0.019083	0	0	0.071073	0	0.197561	0.073933	0.288669	0.059648
0.066434	0	0	0.043049	0.01854	0.067272	0.146389	0.184105	0.017181
0.053394	0	0	0.09671	0.018085	0.083385	0.066329	0.055199	0.014594
0.043654	0.004056	0	0.059091	0.018995	0	0.084408	0.22196	0.109261
0.001984	0.017695	0	0.123431	0.019631	0.076203	0.094248	0.171062	0
0	0	0	0.047351	0.023753	0.00098	0.105783	0.143004	0.010042
0	0.070508	0	0.045398	0.046535	0.039405	0.098725	0.202601	0.008776
0.007709	0	0.007313	0.069794	0.036499	0.05566	0.073352	0.302393	0.016003
0.005651	0.01758	0	0.04063	0.026828	0.053548	0.11962	0.225898	0
0.057653	0	0	0.073173	0.001831	0.104877	0.040642	0.106295	0.015671
0	0	0	0.077456	0	0.151848	0.05725	0.120283	0
0.003038	0.030663	0	0.041534	0.037787	0.165514	0.194837	0.068365	0.034104
0.064867	0	0	0.053311	0.017017	0.041718	0.064495	0.101196	0.0047
0	0	0	0.067282	0.008995	0.061198	0.06099	0.173878	0.03371

Supplementary table 3

0	0	0.046031	0.070892	0.018816	0.173271	0.061088	0.213587	0.020615
0.005958	0.010111	0	0.054796	0.028125	0.058813	0.117224	0.143154	0.015818
0.064896	0	0.11427	0	0.066898	0.393486	0	0.138415	0
0.047746	0	0.043668	0.068497	0.057697	0.033247	0.035324	0.193124	0.007828
0.093904	0	0	0.029615	0	0.22061	0.061117	0.093125	0.013172
0.033195	0	0	0.050382	0	0.525176	0.021123	0.020754	0
0.049283	0	0	0.028486	0.082427	0.172063	0.001246	0.334089	0.00583
0.008663	0.040205	0	0.0785	0.000142	0.004992	0.110177	0.158783	0
0	0.034346	0	0.112858	0.016721	0	0.128673	0.269868	0
0.069311	0	0	0.05069	0.029497	0.055425	0.14291	0.179938	0.0134
0.107553	0	0	0.056389	0.035665	0.032564	0.056896	0.160893	0
0.006846	0	0	0.114588	0.086214	0.025922	0.119182	0.260469	0
0.012846	0	0.001958	0.058277	0.035208	0.098195	0.021671	0.280378	0.012476
0.024856	0.004209	0	0.02407	0.000408	0.03418	0.076689	0.105679	0.030094
0.057297	0.01535	0	0.043487	0.024589	0.128425	0.071437	0.251149	0.180731
0.085118	0	0	0.031501	0.016632	0.128704	0.054509	0.204271	0.045079
0.048081	0	0	0.035789	0.033516	0.126196	0.13644	0.238664	0.02833
0.001871	0	0	0.057769	0.039556	0.164117	0	0.456497	0.000411
0.037561	0	0	0.100008	0	0.400243	0.095022	0.090038	0.001151

Supplementary table 3

Dendritic c	Mast cells	Mast cells	Eosinophil	Neutrophil	P-value	Correlation	RMSE
0	0.061784	0	0	0.043775	0.251	0.050774	1.062903
0	0.075529	0	0	0.000716	0.062	0.136161	1.029371
0	0	0.019792	0	0.0091	0.271	0.047196	1.078243
0	0.119019	0	0	0.002532	0.578	0.00328	1.079488
0.01475	0	0.040961	0	0.104249	0.228	0.055911	1.079927
0	0.022389	0	0	0.032514	0.222	0.057935	1.0727
0	0.031064	0	0	0.006902	0.231	0.055429	1.067325
0	0	0.061983	0	0.009377	0.164	0.073434	1.056346
0	0	0.10791	0	0.093512	0.143	0.081016	1.053435
0	0.010226	0	0	0.003909	0.136	0.085232	1.060085
0	0	0.014754	0	0.009299	0.187	0.066452	1.065343
0	0	0.035051	0.000981	0.014344	0.227	0.056386	1.070071
0	0.043144	0	0	0.018792	0.34	0.03307	1.075558
0	0.019691	0	0	0.00821	0.08	0.123297	1.047355
0	0.037016	0	0	0.0089	0.037	0.168959	1.032668
0	0.061288	0	0	0.028947	0.426	0.021829	1.070206
0	0.091833	0	0	0.018327	0.518	0.008466	1.074843
0	0.027417	0	0	0.005252	0.208	0.060487	1.060588
0	0.041838	0	0	0.010923	0.175	0.06971	1.072765
0	0	0.013893	0	0.007929	0.209	0.06038	1.070772
0	0.006359	0	0	0.006959	0.084	0.119909	1.041027
0	0	0.041504	0	0.021429	0.164	0.073547	1.06123
0	0.038277	0	0	0.005058	0.355	0.03136	1.073288
0	0	0.012254	0	0.007458	0.105	0.105249	1.059534
0	0.023465	0	0	0.031463	0.361	0.030325	1.07554
0	0	0.020862	0	0	0.453	0.016746	1.081771
0	0.162518	0	0	0.027205	0.46	0.01601	1.06805
0	0.074345	0	0	0.003809	0.178	0.069095	1.05746
0	0.060097	0	0	0.026984	0.187	0.066684	1.063587
0	0	0.020648	0	0.003992	0.055	0.143667	1.033647
0	0.054768	0	0	0.008448	0.447	0.018205	1.076472
0	0	0.03864	0	0.012405	0.22	0.058215	1.06899
0	0.114355	0	0	0.012562	0.453	0.017002	1.07573
0	0.008539	0	0	0.006757	0.092	0.115213	1.047503
0	0.149355	0	0	0	0.605	0.000533	1.092726
0	0.054278	0	0	0.013689	0.28	0.045114	1.063273
0	0.004316	0.006848	0	0.005062	0.245	0.05214	1.077446
0	0.002205	0.003624	0	0.01078	0.14	0.082258	1.055043
0	0.027103	0	0	0.013032	0.015	0.238605	0.990523
0	0.051683	0	0	0	0.223	0.057671	1.063635
0	0	0.010416	0	5.24E-05	0.39	0.026009	1.081703
0.007052	0.048319	0.040257	0	0.009269	0.251	0.050623	1.059645
0	0.03157	0	0	0.000847	0.162	0.074091	1.057978
0	0.028492	0	0	0.014815	0.075	0.127707	1.044684
0	0.0191	0	0.005426	0.033332	0.273	0.046484	1.068906
0	0.032076	0	0	0.000327	0.164	0.073401	1.067714
0	0.030978	0	0	0	0.011	0.29665	0.966446
0	0.026985	0	0	0	0.596	0.001515	1.084253
0.00328	0.108243	0	0	0.003254	0.011	0.299151	0.991458
0	0.033293	0	0	0.018393	0.102	0.107162	1.040701
0	0.068361	0	0	0.003299	0.073	0.129166	1.056315
0	0	0	0	0	0.002	0.513015	0.857642
0	0.106377	0	0	0	0.237	0.054064	1.08223
0	0.025703	0	0	0	0.013	0.259443	0.983371
0	0.047146	0	0	0.013913	0.764	-0.01475	1.094664
0	0.069778	0	0	0	0.011	0.29384	0.973331
0	0.135309	0	0.03738	0.008948	0.737	-0.01199	1.083612

Supplementary table 3

	0	0.207573	0	0	0.002882	0.188	0.065965	1.062132
	0	0.123704	0	0	0	0.521	0.008215	1.08411
	0	0.075096	0	0.005432	0	0.027	0.18373	1.021522
	0	0.026661	0	0	0	0.338	0.03312	1.082286
	0	0.031299	0	0	0.00389	0.133	0.086792	1.056064
	0	0.033951	0	0	0.003354	0.017	0.218038	1.005729
	0	0.120713	0	0	0.032744	0.118	0.097042	1.049976
	0	0.076371	0	0	0	0.446	0.018599	1.077176
	0	0.027127	0	0	0	0.021	0.199075	1.015318
0.021233		0.02406	0	0	0.02386	0.798	-0.01886	1.113038
	0	0.140694	0	0.000546	0.02166	0.107	0.103581	1.041046
	0	0.022147	0	0	0	0.04	0.165553	1.036277
	0	0.055188	0	0	0.001846	0.093	0.11496	1.033639
	0	0.03749	0	0	0.012277	0.03	0.180183	1.039252
	0	0.019582	0	0	0.002948	0.694	-0.00866	1.098646
	0	0.03919	0	0	0.031698	0.02	0.205028	1.004209
	0	0.052868	0	0	0.005196	0.088	0.117114	1.05481
	0	0.09802	0	0.005531	0	0.272	0.046813	1.082308
	0	0.098934	0	0.004038	0.003198	0.196	0.063036	1.069938
	0	0.071265	0	0	0	0.75	-0.01302	1.109821
	0	0.031622	0	0	0	0.506	0.009826	1.081017
	0	0.028223	0	0	0	0.279	0.045316	1.090368
	0	0.040009	0	0	0.049579	0.298	0.041037	1.080762
	0	0.077243	0	0.000363	0	0.04	0.16556	1.027928
	0	0.051698	0	0	0.002978	0.25	0.051349	1.065965
	0	0.128999	0	0	0	0.907	-0.03128	1.102451
	0	0.103252	0	0	0.091283	0.107	0.103192	1.044047
	0	0	0	0	0	0.118	0.097601	1.062815
	0	0.020815	0	0	0.002136	0.326	0.035408	1.075756
	0	0.038596	0	0	0.000819	0.043	0.161019	1.03464
	0	0.065207	0	0.004915	0.004043	0.21	0.06024	1.056377
	0	0.06062	0	0	0.00232	0.023	0.191091	1.008923
	0	0.040641	0	0	0	0.737	-0.01193	1.092495
	0	0.185125	0	0	0	0.434	0.020608	1.087275
	0	0.029621	0	0	0.000468	0.453	0.01683	1.089671
	0	0.038619	0	0	0	0.284	0.044083	1.070715
	0	0.089344	0	0	0.000525	0.081	0.122714	1.0316
	0	0.040793	0	0	0	0.026	0.187754	1.069349
	0	0.122727	0	0	0	0.552	0.006191	1.090847
	0	0.067118	0	0	0.000364	0.439	0.019523	1.082453
	0	0.18904	0	0	0	0.647	-0.00372	1.089241
0.006424		0.082599	0	0	0	0.608	-6.42E-05	1.08862
	0	0.018723	0	0	0	0.058	0.139933	1.041383
	0	0.050066	0	0	0	0.852	-0.0245	1.099249
	0	0.046673	0	0	0.00826	0.3	0.04025	1.116116
	0	0.039609	0	0	0	0.048	0.151706	1.023874
	0	0.148623	0	0	0.022139	0.505	0.010053	1.086147
	0	0.044067	0	0	0	0.129	0.089777	1.070916
0.007133		0.053614	0	0	0.012156	0.08	0.123255	1.040449
	0	0.034044	0	0	0	0.041	0.161742	1.020503
	0	0.06227	0	0	0.003215	0.084	0.120395	1.039866
	0	0.106317	0	0	0.008848	0.38	0.027154	1.072025
	0	0.079314	0	0	0	0.169	0.072054	1.057171
	0	0.097573	0	0	0	0.12	0.095393	1.049048
	0	0	0.042569	0	0.004535	0.145	0.080647	1.057073
	0	0.199139	0	0	0.009963	0.87	-0.02722	1.100561
	0	0.089764	0	0	0	0.577	0.00351	1.074989
	0	0.032419	0	0	0.022184	0.354	0.031633	1.083049

Supplementary table 3



	0	0.012657	0	0	0	0.02	0.20955	1.011355
	0	0.052426	0	0	0	0.427	0.02154	1.087817
0.015189	0	0.049855	0	0	0	0.239	0.053607	1.068497
	0	0.03229	0	0	0.003745	0.26	0.049425	1.080462
	0	0.17102	0	0	0	0.651	-0.00394	1.088365
	0	0.103722	0	0	0.002943	0.177	0.069441	1.07938
	0	0.131034	0	0	0.002769	0.786	-0.01742	1.090705
	0	0.064151	0	0	0	0.106	0.1043	1.039358
	0	0.144662	0	0	0.000511	0.482	0.013275	1.086638
	0	0.098652	0	0	0	0.226	0.056828	1.063539
	0	0.033289	0	0	0	0.516	0.008695	1.091744
	0	0.036707	0	0	0.001925	0.373	0.028352	1.087013
	0	0.073467	0.004167	0	0	0.011	0.297968	0.964729
	0	0.084035	0	0	0	0.497	0.010971	1.095001
	0	0.048834	0	0	0	0.258	0.049663	1.07443
	0	0.057393	0	0	0	0.011	0.29304	1.005155
	0	0.117243	0	0	0.007905	0.25	0.051116	1.067298
	0	0.06836	0	0	0.002754	0.194	0.063974	1.057259
	0	0.03965	0	0	0.002978	0.569	0.004546	1.08596
	0	0.107807	0	0	0	0.32	0.036498	1.081215
	0	0.052513	0	0	0	0.698	-0.00892	1.100319
	0	0.049364	0	0	0	0.866	-0.02614	1.118391
	0	0.012229	0	0	0	0.094	0.113651	1.05111
	0	0.022752	0	0	0.001209	0.022	0.197001	1.030203
	0	0.101755	0	0.009728	0	0.356	0.031227	1.07169
	0	0.15705	0	0	0.003595	0.228	0.056197	1.068036
	0	0.069468	0	0	0.016739	0.504	0.01039	1.077049
	0	0.021305	0	0	0	0.117	0.098358	1.066858
	0	0.257693	0	0	0.015502	0.436	0.020008	1.086689
	0	0.05404	0	0	0	0.564	0.005285	1.087883
	0	0.025964	0	0	0.001343	0.084	0.119725	1.046927
	0	0.049968	0	0	0	0.13	0.08959	1.063153
	0	0.205535	0	0.012823	0	0.491	0.011937	1.079501
	0	0.004465	0	0	0	0.116	0.098825	1.087542
	0	0.054861	0	0	0	0.335	0.033377	1.078533
0.01394	0	0.141137	0	0.004027	0.008733	0.12	0.095365	1.058007
	0	0.003894	0	0.002076	0.00018	0.014	0.254088	0.99632
	0	0.022909	0	0	0.009753	0.077	0.124838	1.044517
	0	0	0	0	0	0.759	-0.01391	1.118314
	0	0.053183	0	0	0	0.564	0.005294	1.096933
	0	0.014935	0	0	0	0.241	0.053379	1.115417
	0	0.06226	0	0	0.000565	0.223	0.057339	1.065858
	0	0	0.015754	0	0.071409	0.166	0.072946	1.073291
	0	0.160724	0	0	0.03321	0.253	0.050399	1.061242
	0	0.179708	0	0	0.002186	0.458	0.016291	1.07577
0.202582	0	0.067398	0	0	0.016912	0.757	-0.0136	1.087933
	0	0.061611	0	0	0	0.377	0.027736	1.074449
	0	0.21968	0	0	0	0.166	0.072824	1.056956
	0	0.064316	0	0	0.029304	0.833	-0.02235	1.084922
	0	0.048555	0	0	0.011196	0.016	0.234108	0.991397
	0	0.236869	0	0.008593	0.004621	0.096	0.112356	1.051298
	0	0.27545	0	0.001397	0.001621	0.378	0.027622	1.090108
	0	0.073814	0	0	0.000589	0.261	0.04895	1.061311
	0	0.168217	0	0	0	0.107	0.103384	1.052683
	0	0.118208	0	0	0	0.042	0.161243	1.042188
	0	0.016893	0	0	0	0.017	0.215315	1.024175
	0	0.070536	0	0	0	0.874	-0.02795	1.095402
	0	0.092991	0	0.00091	0.009927	0.174	0.070215	1.066614

Supplementary table 3

0.040457	0.050379	0	0	0.004357	0.035	0.170638	1.03243
0	0.079352	0	0	0.003698	0.239	0.053628	1.073648
0	0.088836	0.01517	0	0.005345	0.569	0.004442	1.080777
0	0.029412	0	0	2.79E-05	0.11	0.101032	1.053526
0	0.162781	0	0	0.00685	0.865	-0.02572	1.085047
0	0.144466	0	0	0.005993	0.435	0.020241	1.068636
0	0.036965	0	0	0.012784	0.023	0.192222	1.008655
0	0.04709	0	0	0	0.363	0.030024	1.080546
0	0	0.06825	0	0.027319	0.011	0.29613	0.966344
0	0.052956	0	0	0	0.086	0.117986	1.045295
0	0.051362	0	0	0	0.014	0.248004	0.985345
0	0.014378	0	0	0.008178	0.021	0.203535	1.007467
0	0.123701	0	0	0	0.137	0.084621	1.0661
0	0.031306	0	0	0.071472	0.369	0.02918	1.085129
0	0	0	0	0.010582	0.02	0.204626	1.012943
0	0.042283	0	0	0.010437	0.107	0.103081	1.047017
0	0.018022	0	0	0.001195	0.402	0.02504	1.105688
0	0.013858	0	0	0	0.218	0.058473	1.073996
0	0.042349	0	0	0	0.598	0.00124	1.095089
0.00434	0.165852	0	0	0	0.772	-0.01564	1.083866
0	0.066667	0	0	0	0.784	-0.01722	1.134953
0	0.061606	0	0	0.040473	0.51	0.009594	1.093863
0	0.217027	0	0	0	0.466	0.015076	1.07346
0	0.160846	0	0.002781	0	0.638	-0.00308	1.091662
0	0.003273	0.000502	0	0.0231	0.151	0.079075	1.068285
0	0.043655	0	0	0.006671	0.45	0.017649	1.091812
0	0.169999	0	0	0.006626	0.988	-0.04694	1.110918
0	0.061404	0	0	0	0.17	0.071664	1.061817
0	0.02183	0	0	0	0.118	0.097119	1.075993
0	0.032059	0	0	0.003063	0.372	0.028624	1.096064
0	0.060591	0	0	0	0.025	0.188216	1.009766
0	0.048433	0	0	0.005129	0.155	0.077464	1.05448
0	0.020552	0	0	0	0.168	0.072303	1.075639
0	0.053666	0	0	0	0.068	0.132764	1.038286
0	0.028308	0	0	0.002129	0.208	0.060573	1.072965
0	0.090979	0	0	0.008016	0.739	-0.01219	1.106593
0	0.037782	0	0	0	0.677	-0.00712	1.10095
0	0.123849	0	0	0.002706	0.49	0.012127	1.085335
0	0.028991	0	0	0	0.214	0.059032	1.076877
0	0.073694	0	0	0	0.807	-0.01975	1.101541
0	0.05044	0	0	0	0.483	0.013165	1.084649
0	0.028689	0	0	0.005078	0.009	0.318643	0.969242
0	0.147139	0	0	0.005887	0.409	0.024265	1.077633
0	0.079524	0	0	0	0.28	0.045054	1.073714
0	0	0	0	0	0.762	-0.01443	1.104286
0	0	0.064883	0.000284	0	0.208	0.060512	1.087623
0	0.057827	0	0	0	0.75	-0.01306	1.09081
0	0.028851	0	0	0	0.297	0.041802	1.093491
0	0.071904	0	0	0	0.708	-0.00993	1.111573
0	0.057444	0	0	0.011463	0.374	0.028218	1.09146
0.00081	0.023514	0	0	0	0.641	-0.00332	1.119319
0	0.049705	0	0	0	0.192	0.06496	1.076826
0	0	0.008891	6.20E-05	0	0.357	0.031009	1.104322
0	0.054114	0	0	0	0.32	0.036404	1.10394
0	0.040229	0	0	0.004487	0.04	0.166436	1.038864
0	0.041475	0	0	0	0.373	0.028434	1.084207
0	0.040735	0	0	0	0.247	0.051823	1.073578
0	0.075976	0	0	0	0.069	0.131518	1.031681

Supplementary table 3

0	0.198996	0	0	0.012894	0.207	0.060914	1.06062
0	0.139558	0	0	0.016053	0.939	-0.03545	1.092115
0	0.228987	0	0	0	0.453	0.016942	1.076642
0	0.043585	0	0	0.037952	0.161	0.074571	1.058977
0	0.024356	0	0	0.007982	0.12	0.095317	1.05865
0	0.110808	0.037758	0	0.005872	0.251	0.050801	1.063497
0	0.124069	0	0	0	0.569	0.00443	1.08906
0	0.035799	0	0	0.007163	0.492	0.011807	1.086618
0	0.240972	0	0	0.001345	0.623	-0.00154	1.088171
0	0.025914	0	0	0	0.719	-0.01088	1.100199
0	0.051798	0	0	0.031955	0.488	0.012604	1.081045
0	0.056143	0	0	0.010457	0.488	0.012575	1.078678
0	0.121737	0	0	0.00832	0.44	0.019443	1.068764
0	0.138118	0	0	0	0.614	-0.00061	1.077973
0	0.102514	0	0.025091	0.007855	0.373	0.02849	1.069109
0	0.071834	0	0	0.006546	0.131	0.088026	1.042968
0	0.049006	0	0	0.003385	0.002	0.507665	0.861184
0	0.159556	0	0	0.068172	0.623	-0.00147	1.077057
0	0.052628	0	0	0	0.578	0.003275	1.091858
0	0.022653	0	0.000168	0.001821	0.602	0.000912	1.085675
0	0.076274	0	0	0	0.771	-0.0156	1.087702
0	0.080107	0	0	0.024034	0.346	0.032599	1.08961
0	0.078802	0	0	0	0.659	-0.00451	1.096797
0	0.035896	0	0	0.001651	0.053	0.147105	1.061697
0	0.06473	0	0	0.008892	0.16	0.075751	1.060466
0	0.040467	0	0	0	0.45	0.017634	1.105663
0	0.124868	0	0	0	0.405	0.024823	1.083926
0	0.044507	0	0	0.028966	0.117	0.098437	1.04958
0	0.037485	0	0	0	0.025	0.188449	1.067493
0	0.076629	0	0	0	0.537	0.007104	1.080361
0.006791	0.041426	0	0	6.47E-05	0.447	0.018329	1.104808
0	0.062035	0	0	0.006272	0.013	0.268712	0.97378
0	0.049522	0	0	0.026295	0.013	0.268838	0.97508
0	0.045968	0	0	0	0.567	0.004939	1.091906
0	0.048683	0	0	0.004227	0.011	0.291103	0.978954
0	0.097772	0	0	0.001712	0.107	0.102558	1.061391
0	0.028371	0	0	0.004069	0.027	0.184674	1.02465
0	0.133422	0	0	0.012901	0.187	0.066884	1.061056
0	0.082794	0	0	0.001638	0.691	-0.00828	1.094361
0	0.02696	0	0	0	0.136	0.085452	1.053135
0	0.054903	0	0	0	0.042	0.161405	1.028307
0	0.112243	0	0	0	0.376	0.027958	1.075704
0	0.153291	0	0	0.00259	0.591	0.001941	1.091849
0.065988	0	0.028004	0	0	0.315	0.037695	1.094874
0	0.105044	0	0	0	0.692	-0.00833	1.089714
0	0.074729	0	0	0	0.502	0.010582	1.078604
0	0.010057	0	0	0	0.578	0.00335	1.085392
0	0.060571	0	0	0	0.317	0.037355	1.080566
0.00779	0.008197	0	0	0.012603	0.163	0.073623	1.073761
0	0.151777	0	0	0.014503	0.532	0.007785	1.076992
0	0.077308	0	0	0	0.647	-0.00364	1.098228
0	0.038463	0	0	0.003403	0.698	-0.0089	1.09502
0	0.061274	0	0.000675	0	0.026	0.187552	1.038262
0	0.124943	0	0	0	0.448	0.017893	1.079271
0	0	0.012128	0	0.023376	0.327	0.035049	1.077782
0	0.13935	0	0	0.001579	0.096	0.112262	1.053763
0	0.059343	0	0	0	0.012	0.283103	0.979651
0	0.048872	0	0	0	0.044	0.157729	1.025983

Supplementary table 3

	0	0.022403	0	0	0.015833	0.083	0.121452	1.042784
	0	0.194423	0	0	0	0.565	0.005226	1.073954
	0	0.052428	0	0	0.00041	0.263	0.048675	1.059292
	0	0.048684	0	0	0	0.921	-0.0331	1.111943
	0	0	0	0	0	0.65	-0.00385	1.100542
	0	0.016368	0	0	0.001901	0.457	0.016514	1.105559
	0	0.041137	0	0	0	0.413	0.023054	1.081908
	0	0.040363	0	0	0.005677	0.29	0.043478	1.078337
0.015649	0.381607	0	0	0	0	0.618	-0.00102	1.101744
	0	0.064618	0	0	0.018258	0.095	0.11262	1.044573
	0	0.021224	0	0	0.068714	0.108	0.102093	1.048567
	0	0	0.099186	0	0.016002	0.581	0.003049	1.094174
	0	0.021779	0	0	0	0.355	0.031436	1.08714
	0	0.012682	0	0	0.002501	0.031	0.175307	1.040629
	0	0.012857	0	0	0.020012	0.137	0.084417	1.064353
	0	0.056629	0	0	0	0.786	-0.01746	1.092632
	0	0.082847	0	0	0.000941	0.569	0.004532	1.088612
	0	0.012765	0	0	0	0.006	0.332025	0.957171
	0	0.200279	0	0	0.001989	0.355	0.031355	1.071663
	0	0.110608	0	0.000416	0.010851	0.225	0.057042	1.058957
	0	0.058141	0	0	0.005578	0.375	0.028129	1.075141
	0	0.031145	0	0	0	0.352	0.03197	1.078607
	0	0.028096	0	0	0.031235	0.106	0.103916	1.067029
	0	0.033144	0	0	0	0.013	0.273164	0.982986
	0	0.108965	0	0	0.000354	0.127	0.092233	1.070116
	0	0.098455	0	0	0.01942	0.794	-0.01854	1.091472
	0	0.066899	0	0	0.001449	0.223	0.057442	1.067911
	0	0	0	0	0.004125	0.016	0.224136	1.062199
	0	0.057922	0	0	0	0.12	0.095862	1.065941
	0	0.068591	0	0	0.001776	0.02	0.20807	1.017992
	0	0.086405	0	0	0	0.173	0.07111	1.062211
	0	0.073022	0	0	0	0.505	0.010358	1.09884
	0	0.035671	0	0	0	0.102	0.106949	1.051275
	0	0.024098	0	0	0	0.187	0.066896	1.091123
	0	0.111739	0	0	0.002085	0.101	0.107975	1.04327
	0	0.069799	0	0	0.005559	0.232	0.055067	1.068421
	0	0.065588	0	0	0.007167	0.083	0.121061	1.096672
	0	0.157628	0	0	0	0.955	-0.03814	1.094722
	0	0.052858	0	0	0.002798	0.276	0.045791	1.063204
	0	0.230603	0	0	0.001037	0.353	0.031809	1.078064
	0	0.176407	0	0.007221	0	0.222	0.058051	1.06496
	0	0.000724	0	0	0.002951	0.025	0.188486	1.026898
	0	0.010791	0	0	0	0.257	0.049829	1.075439
0.006395	0.190452	0	0.000842	0	0	0.885	-0.02888	1.094069
	0	0.063452	0	0	0.00652	0.28	0.045029	1.067212
	0	0.03454	0	0	0	0.623	-0.00162	1.083563
	0	0.032032	0	0	0	0.155	0.077592	1.070509
	0	0.330924	0	0.012198	0	0.791	-0.01802	1.105297
	0	0.017182	0	0	0.011644	0.081	0.122954	1.051951
	0	0.046714	0	0	0.000358	0.053	0.146579	1.046213
	0	0.036101	0	0	0.26329	0.068	0.132506	1.068878
	0	0	0.028581	0	0.017012	0.512	0.009483	1.084995
	0	0.03653	0	0	0.008623	0.017	0.215544	1.009752
	0	0.12402	0	0	0.004445	0.805	-0.01959	1.08916
0.009713	0.054624	0	0	0	0.002651	0.003	0.371043	0.934019
	0	0.278586	0	0	0.003306	0.695	-0.00872	1.087933
	0	0.296194	0	0.002881	0	0.544	0.006716	1.09225
	0	0.031064	0	0	0	0.405	0.024792	1.079948

Supplementary table 3

0	0.241148	0	0	0.015713	0.384	0.026858	1.079735
0	0.033975	0	0	0.006974	0.994	-0.04847	1.101833
0	0.023161	0	0	0	0.093	0.114696	1.053258
0	0.078359	0	0	0.005151	0.935	-0.03461	1.107182
0	0.065218	0	0	0	0.721	-0.01113	1.089604
0	0.130911	0	0	0	0.093	0.114457	1.056524
0	0.024849	0	0	0	0.223	0.057503	1.060478
0	0.274999	0	0	0	0.795	-0.01866	1.096978
0	0.310354	0	0	0	0.219	0.058311	1.086544
0	0.024288	0	0	0.008376	0.041	0.161951	1.035503
0	0.132639	0	0	0	0.148	0.07987	1.050587
0	0.015464	0	0	0	0.098	0.110951	1.056802
0	0.098908	0	0	0	0.369	0.02904	1.078602
0	0.150235	0	0	0.011871	0.297	0.041294	1.073625
0	0.041406	0	0	0	0.465	0.015197	1.078269
0	0.070267	0	0	0.012673	0.389	0.026022	1.102555
0	0.04179	0	0	0	0.051	0.148375	1.023065
0	0.020142	0	0	0.003605	0.313	0.037841	1.087606
0	0.067182	0	0	0	0.82	-0.02118	1.101339
0	0.092474	0	0	0	0.758	-0.01374	1.122432
0	0.033263	0	0	0	0.092	0.115482	1.050539
0	0.10248	0	0	2.92E-05	0.759	-0.01382	1.100435
0	0.064419	0	0	0.003719	0.077	0.125173	1.055373
0	0.041131	0	0	0.031364	0.243	0.052376	1.076252
0	0.1951	0	0	0	0.602	0.00096	1.085133
0	0.047498	0	0	0	0.557	0.005681	1.100195
0	0.025588	0	0	0.0189	0.099	0.110467	1.064142
0	0.053127	0	0.006119	0	0.043	0.160049	1.042536
0	0	0	0	0	0.167	0.072467	1.063794
0	0.057444	0	0	0	0.614	-0.00063	1.09026
0	0.00211	0	0	0	0.306	0.039516	1.084
0	0.024006	0	0	0.039686	0.771	-0.0156	1.105264
0	0.054354	0	0	0.000789	0.489	0.012376	1.08487
0	0.028688	0	0	0.014838	0.082	0.122082	1.04321
0	0.038427	0	0.114883	0	0.079	0.123624	1.051401
0	0.08313	0	0	0	0.138	0.0836	1.061566
0	0.029722	0	0	0.002312	0.038	0.168566	1.020559
0	0.017846	0	0	0.016935	0	0.687069	0.735496
0	0.180659	0	0.005294	0.016678	0.261	0.048807	1.093357
0	0.050047	0	0.002618	0	0.206	0.061172	1.089186
0	0.072221	0	0	0	0.18	0.068553	1.061809
0	0.077364	0	0	0	0.457	0.016456	1.086576
0	0.092857	0	0	0.008012	0.514	0.008898	1.079536
0	0.103616	0	0	0.003634	0.137	0.084426	1.060316
0	0.010357	0	0	0	0.097	0.111485	1.049311
0	0.051108	0	0	0	0.28	0.045236	1.083676
0	0.11948	0	0	0	0.761	-0.01438	1.110851
0	0.033195	0	0	0	0.693	-0.00854	1.091768
0	0.086039	0	0	0.035712	0.788	-0.01767	1.099817
0	0	0.02568	0.000537	0.001751	0.076	0.126213	1.063944
0	0	0.018786	0	0	0.603	0.000644	1.096751
0.000876	0.074225	0	0	0.012921	0.346	0.032559	1.068824
0	0.068089	0	0	0.011526	0.145	0.080551	1.057661
0	0.042955	0	0	0.003526	0.533	0.007741	1.112477
0	0.071853	0	0	0	0.409	0.024218	1.095528
0	0.146509	0	0	0	0.111	0.100608	1.05721
0	0.198339	0	0	0	0.107	0.103621	1.050655
0	0	0.004118	0	0	0.32	0.036714	1.096093

Supplementary table 3



0	0.103345	0	0	0	0.346	0.032594	1.071094
0	0.048854	0	0	0.005565	0.244	0.052286	1.075893
0	0	0.020022	0	0.003795	0.225	0.056995	1.096186
0	0.156962	0	0.004969	0.001749	0.973	-0.04126	1.100134
0	0.025601	0	0	0	0.04	0.167459	1.028002
0	0.041974	0	0	0	0.063	0.135282	1.072362
0	0.145337	0	0.003913	0.029646	0.128	0.091507	1.055997
0	0.143758	0	0	0.009993	0.763	-0.01455	1.096476
0	0.117744	0	0	0.012165	0.521	0.008203	1.088854
0	0.050254	0	0	0.000987	0.357	0.031101	1.086015
0.001554	0.037627	0	0	0	0.107	0.102819	1.066785
0	0.172031	0	0.005569	0.001909	0.582	0.002961	1.087504
0	0.148908	0	0	0.005114	0.613	-0.0004	1.080966
0	0.02455	0	0	0	0.443	0.019269	1.100431
0	0.03103	0	0.016058	0	0.283	0.044531	1.067874
0	0.05667	0	0	0	0.228	0.056036	1.063661
0	0.064919	0	0	0.002624	0.195	0.063668	1.060934
0	0.091939	0	0	0.001005	0.336	0.033282	1.092313
0	0.034781	0	0	0	0.073	0.129268	1.062999

Supplementary table 3

**Supplementary Table 4: Supplementary Table 4 shows the correlation between the expression of the six core prognostic genes and drug sensitivity.**

Gene	Drug	cor	pvalue
BATF	LEE-011	0.549817	5.36E-06
CREB1	Nelarabine	0.537829	9.35E-06
BATF	Raloxifene	0.514869	2.57E-05
BATF	Dexrazoxa	0.489822	7.12E-05
CREB3L1	Cabozanti	0.447147	0.000341
BATF	LDK-378	0.441188	0.000418
BATF	Fulvestran	0.405665	0.001302
ATF4	Fluphenaz	0.388824	0.002139
CREB3	Palbociclik	-0.38814	0.002181
CREB3L1	Lenvatinib	0.386813	0.002266
ATF1	Ifosfamide	0.378112	0.002895
CREB3L1	Zoledrona	0.372769	0.003354
CREB3	Cobimetin	-0.36191	0.004491
ATF4	Megestrol	0.36095	0.004607
CREB3	LEE-011	-0.35641	0.005188
CREB3L1	Midostaur	0.356171	0.005221
ATF1	Dexrazoxa	0.355694	0.005286
BATF	Erlotinib	-0.35129	0.005921
CREB3L1	Dasatinib	0.349281	0.006232
CREB3	Oxaliplatin	-0.34867	0.006329
CREB3L1	Abirateron	0.348419	0.00637
CREB3	Selumetini	-0.347	0.006602
CREB3	Rapamycir	0.344584	0.007016
ATF1	Palbociclik	0.340399	0.007785
BATF	Palbociclik	0.336081	0.008656
BATF	Cyclophos	0.334434	0.00901
CREB3	LDK-378	-0.33441	0.009015
CREB3L1	JNJ-42756	0.333865	0.009135
ATF1	Nelarabine	0.330604	0.009881
ATF4	Nelarabine	0.32982	0.010068
CREB3L1	Dabrafenik	-0.32875	0.010328
ATF1	Hydroxyur	0.327524	0.010634
BATF	Sonidegib	-0.32543	0.011174
CREB3L1	Cobimetin	-0.32318	0.01178
CREB3	Trametinik	-0.32025	0.012612
CREB3	ARRY-162	-0.31909	0.012954
CREB3	Everolimus	0.318673	0.01308
CREB1	LEE-011	0.316981	0.013599
BATF	Selumetini	0.313918	0.014584
CREB3	IPI-145	0.312157	0.015178
CREB3	Temsirolin	0.30497	0.01782
BATF	Ibrutinib	-0.30211	0.018974
CREB1	Chlorambu	0.302056	0.018998
CREB3	Ibrutinib	0.299219	0.020208
CREB3	Nilotinib	-0.29629	0.021526
ATF1	Parthenoli	0.289936	0.024634
CREB3	RAPAMYC	0.288295	0.025496
CREB3L1	Neratinib	-0.28664	0.026392
ATF1	LEE-011	0.285914	0.026791
CREB3	Floxuridine	0.285423	0.027065
CREB3L1	Panobinos	-0.28522	0.027179
ATF4	Irofulven	-0.2843	0.027703
CREB1	Midostaur	0.283386	0.028227
CREB1	Hydroxyur	0.283353	0.028246
CREB3L1	Axitinib	0.282168	0.028941
BATF	Vemurafer	0.281754	0.029188
ATF4	ETHINYL E	0.281076	0.029595

**Supplementary table 4**

ATF1	Lomustine	0.280309	0.030061
CREB3L1	Simvastatin	0.279901	0.030312
CREB3	Sunitinib	-0.27732	0.031937
ATF1	Chlorambucil	0.276698	0.03234
CREB3L1	Idelalisib	0.276311	0.032592
CREB3	Actinomycin D	-0.27571	0.032985
CREB3L1	Osimertinib	-0.27396	0.034164
ATF1	6-Thioguanine	0.273513	0.034468
CREB3	Denileukin	-0.27347	0.034499
CREB3L1	IPI-145	0.273324	0.034597
CREB3L1	Selumetinib	-0.27053	0.036567
ATF1	Vemurafenib	-0.27018	0.036818
BATF	Dabrafenib	0.266158	0.039828
BATF	TYROTHRI	0.2659	0.040028
ATF4	Vismodegib	0.265362	0.040448
CREB3L1	Oxaliplatin	-0.26416	0.041403
CREB3	Imatinib	-0.26414	0.041413
ATF1	Uracil mustard	0.264133	0.04142
CREB1	Melphalan	0.263588	0.041857
BATF	ABT-199	0.263528	0.041906
BATF	Dromostatin	0.263196	0.042174
CREB1	Uracil mustard	0.261993	0.043158
CREB1	Dexamethasone	0.261821	0.043301
CREB3L1	Bleomycin	0.26034	0.044543
CREB3L1	Dexrazoxane	-0.25987	0.04494
CREB3	Depsipeptide	-0.25888	0.045793
BATF	Simvastatin	-0.25805	0.046519
CREB1	Idarubicin	0.257448	0.04705
BATF	Melphalan	0.257307	0.047176
ATF4	Axitinib	0.256629	0.047781
CREB3	Crizotinib	-0.2565	0.047896
BATF	DAUNORUBICIN	0.256463	0.047931
CREB3L1	Vorinostat	-0.25639	0.047992
ATF1	Oxaliplatin	0.255864	0.048472
BATF	Nitrogen mustard	0.255601	0.048712
CREB3L1	ARRY-162	-0.25516	0.049117
ATF1	Allopurinol	0.254437	0.049784

Supplementary table 4