

Supplementary Table S1:

cancer	infiltrates	p	rho	adj.p
ACC (n=79)	Cancer associated fibroblast_EPIC	0.10706 9	0.19016 9	0.23838 9
ACC (n=79)	Cancer associated fibroblast_MCPCOUNTER	0.09119 1	0.19915 1	0.24638 6
ACC (n=79)	Cancer associated fibroblast_TIDE	0.00087 7	0.38118	0.41669 4
ACC (n=79)	Cancer associated fibroblast_XCELL	0.39133 7	0.10182 3	0.14584 1
ACC (n=79)	NK cell activated_CIBERSORT	0.28899	0.12578 1	0.17283
ACC (n=79)	NK cell activated_CIBERSORT-ABS	0.00071 1	0.38730 3	0.42286 2
ACC (n=79)	NK cell resting_CIBERSORT	0.78335 2	-0.03274	-0.07293
ACC (n=79)	NK cell resting_CIBERSORT-ABS	0.92948 5	-0.01054	-0.02132
ACC (n=79)	NK cell_EPIC	0.65679 4	-0.05288	-0.13373
ACC (n=79)	NK cell_MCPCOUNTER	0.02191 4	0.26794 1	0.31313 2
ACC (n=79)	NK cell_QUANTISEQ	0.73500 9	0.04029 4	0.06779 9
ACC (n=79)	NK cell_XCELL	0.52136 9	0.07625 8	0.11570 1
ACC (n=79)	T cell CD8+ central memory_XCELL	0.12968	-0.17901	-1.22118
ACC (n=79)	T cell CD8+ effector memory_XCELL	0.48940 6	-0.08219	-0.24939
ACC (n=79)	T cell CD8+ naive_XCELL	0.49466 4	-0.0812	-0.24555
ACC (n=79)	T cell CD8+_CIBERSORT	0.21951 9	-0.14545	-0.74416
ACC (n=79)	T cell CD8+_CIBERSORT-ABS	0.66767 1	0.0511	0.08358 4
ACC (n=79)	T cell CD8+_EPIC	0.03602 2	-0.24586	-3.7303
ACC (n=79)	T cell CD8+_MCPCOUNTER	0.60763 1	-0.06109	-0.16292
ACC (n=79)	T cell CD8+_QUANTISEQ	0.17921 4	-0.15895	-0.9325
ACC (n=79)	T cell CD8+_TIMER	0.07951 8	0.20657 6	0.25389 2
ACC (n=79)	T cell CD8+_XCELL	0.56387 9	-0.06865	-0.19487

BLCA (n=408)	Cancer associated fibroblast_EPIC	2.76E-06	0.24155 8	0.28687
BLCA (n=408)	Cancer associated fibroblast_MCPCOUNTER	4.57E-09	0.29956 1	0.34459 3
BLCA (n=408)	Cancer associated fibroblast_TIDE	2.05E-15	0.39796 3	0.43075 9
BLCA (n=408)	Cancer associated fibroblast_XCELL	0.76670 6	0.01551 8	0.02833 1
BLCA (n=408)	NK cell activated_CIBERSORT	0.07548 9	0.09277 3	0.13561 6
BLCA (n=408)	NK cell activated_CIBERSORT-ABS	0.00072 4	0.17544 8	0.22605 3
BLCA (n=408)	NK cell resting_CIBERSORT	0.03981 9	-0.10721	-0.39311
BLCA (n=408)	NK cell resting_CIBERSORT-ABS	0.19583 5	-0.06758	-0.19001
BLCA (n=408)	NK cell_EPIC	0.03215 8	0.11171 3	0.15629 1
BLCA (n=408)	NK cell_MCPCOUNTER	4.59E-07	0.25923 9	0.30464 8
BLCA (n=408)	NK cell_QUANTISEQ	0.04007 6	-0.10707	-0.39098
BLCA (n=408)	NK cell_XCELL	0.05970 3	-0.09825	-0.33513
BLCA (n=408)	T cell CD8+ central memory_XCELL	0.20989 3	0.06551 5	0.10332
BLCA (n=408)	T cell CD8+ effector memory_XCELL	0.82021 8	0.01188 7	0.02193
BLCA (n=408)	T cell CD8+ naive_XCELL	0.72912 3	-0.01811	-0.03768
BLCA (n=408)	T cell CD8+_CIBERSORT	0.70564 8	-0.01975	-0.04189
BLCA (n=408)	T cell CD8+_CIBERSORT-ABS	0.07692	0.09232 5	0.13518 4
BLCA (n=408)	T cell CD8+_EPIC	0.00025 1	-0.18979	-1.45229
BLCA (n=408)	T cell CD8+_MCPCOUNTER	0.0562	0.09963	0.14349 3
BLCA (n=408)	T cell CD8+_QUANTISEQ	0.08752 2	0.08919 4	0.13125 5
BLCA (n=408)	T cell CD8+_TIMER	9.31E-15	0.38919 7	0.42440 4
BLCA (n=408)	T cell CD8+_XCELL	0.00334 5	-0.15257	-0.83393
BRCA (n=1100)	Cancer associated fibroblast_EPIC	1.12E-22	0.30386	0.34727
BRCA (n=1100)	Cancer associated fibroblast_MCPCOUNTER	4.28E-26	0.32633 1	0.36958 9

BRCA (n=1100)	Cancer associated fibroblast_TIDE	5.19E-30	0.34995 2	0.39050 3
BRCA (n=1100)	Cancer associated fibroblast_XCELL	0.85248 9	0.00590 5	0.01132 1
BRCA (n=1100)	NK cell activated_CIBERSORT	0.00112 3	-0.10318	-0.36466
BRCA (n=1100)	NK cell activated_CIBERSORT-ABS	0.06999	-0.0575	-0.14926
BRCA (n=1100)	NK cell resting_CIBERSORT	0.02433	0.07142 4	0.11026 8
BRCA (n=1100)	NK cell resting_CIBERSORT-ABS	0.01487	0.07723 2	0.11677 8
BRCA (n=1100)	NK cell_EPIC	2.45E-09	0.18775 2	0.23569 4
BRCA (n=1100)	NK cell_MCPCOUNTER	0.66845 9	-0.0136	-0.02803
BRCA (n=1100)	NK cell_QUANTISEQ	0.23694 7	-0.03755	-0.08627
BRCA (n=1100)	NK cell_XCELL	0.18887 3	-0.04171	-0.09736
BRCA (n=1100)	T cell CD8+ central memory_XCELL	0.08369 3	-0.05489	-0.14001
BRCA (n=1100)	T cell CD8+ effector memory_XCELL	0.34698 4	-0.02986	-0.06619
BRCA (n=1100)	T cell CD8+ naive_XCELL	1.16E-05	-0.13856	-0.67742
BRCA (n=1100)	T cell CD8+_CIBERSORT	6.42E-14	-0.23482	-2.99485
BRCA (n=1100)	T cell CD8+_CIBERSORT-ABS	4.28E-05	-0.1294	-0.57801
BRCA (n=1100)	T cell CD8+_EPIC	2.74E-08	-0.17512	-1.15868
BRCA (n=1100)	T cell CD8+_MCPCOUNTER	0.17958 3	-0.0426	-0.0997
BRCA (n=1100)	T cell CD8+_QUANTISEQ	0.06071 7	-0.05951	-0.15586
BRCA (n=1100)	T cell CD8+_TIMER	0.00021 5	0.11712	0.16283
BRCA (n=1100)	T cell CD8+_XCELL	0.22074 8	-0.03887	-0.09002
BRCA-Basal (n=191)	Cancer associated fibroblast_EPIC	0.00582 8	0.20823 6	0.25506 7
BRCA-Basal (n=191)	Cancer associated fibroblast_MCPCOUNTER	0.02249 7	0.17292 9	0.22379 1
BRCA-Basal (n=191)	Cancer associated fibroblast_TIDE	0.00010 6	0.28961 1	0.33445 9
BRCA-Basal (n=191)	Cancer associated fibroblast_XCELL	0.15417 8	-0.10849	-0.40282
BRCA-Basal (n=191)	NK cell activated_CIBERSORT	0.26029 3	-0.0858	-0.2668

BRCA-Basal (n=191)	NK cell activated_CIBERSORT-ABS	0.08223 1	-0.13212	-0.59932
BRCA-Basal (n=191)	NK cell resting_CIBERSORT	0.43161 9	0.05999 7	0.09617 8
BRCA-Basal (n=191)	NK cell resting_CIBERSORT-ABS	0.44066	0.05882 9	0.09499
BRCA-Basal (n=191)	NK cell_EPIC	0.20326 1	0.09692 5	0.14005 6
BRCA-Basal (n=191)	NK cell_MCPCOUNTER	0.29349 9	-0.08009	-0.24053
BRCA-Basal (n=191)	NK cell_QUANTISEQ	0.00578 2	-0.20842	-1.93067
BRCA-Basal (n=191)	NK cell_XCELL	0.68247 9	0.03123	0.05378 2
BRCA-Basal (n=191)	T cell CD8+ central memory_XCELL	0.03858 3	-0.15698	-0.90288
BRCA-Basal (n=191)	T cell CD8+ effector memory_XCELL	0.25928 2	-0.08598	-0.26831
BRCA-Basal (n=191)	T cell CD8+ naive_XCELL	0.01410 2	-0.1858	-1.35129
BRCA-Basal (n=191)	T cell CD8+_CIBERSORT	0.01242	-0.18917	-1.4351
BRCA-Basal (n=191)	T cell CD8+_CIBERSORT-ABS	0.01061 6	-0.19326	-1.53218
BRCA-Basal (n=191)	T cell CD8+_EPIC	0.03006 1	-0.16452	-1.01241
BRCA-Basal (n=191)	T cell CD8+_MCPCOUNTER	0.00130 4	-0.24185	-3.43278
BRCA-Basal (n=191)	T cell CD8+_QUANTISEQ	0.01726 5	-0.18032	-1.24947
BRCA-Basal (n=191)	T cell CD8+_TIMER	0.02784 6	0.16677 2	0.21742 2
BRCA-Basal (n=191)	T cell CD8+_XCELL	0.00204	-0.23229	-2.87909
BRCA-Her2 (n=82)	Cancer associated fibroblast_EPIC	0.00413 6	0.33403	0.37733 8
BRCA-Her2 (n=82)	Cancer associated fibroblast_MCPCOUNTER	0.00256 5	0.35018 7	0.39050 3
BRCA-Her2 (n=82)	Cancer associated fibroblast_TIDE	0.00031 3	0.41287 8	0.44417 2
BRCA-Her2 (n=82)	Cancer associated fibroblast_XCELL	0.68935 1	-0.04792	-0.11522
BRCA-Her2 (n=82)	NK cell activated_CIBERSORT	0.10311 6	-0.19366	-1.54924
BRCA-Her2 (n=82)	NK cell activated_CIBERSORT-ABS	0.38246 8	-0.10447	-0.37525
BRCA-Her2 (n=82)	NK cell resting_CIBERSORT	0.14297 8	0.17435 3	0.22497 5

BRCA-Her2 (n=82)	NK cell resting_CIBERSORT-ABS	0.12243 1	0.18370 1	0.2326
BRCA-Her2 (n=82)	NK cell_EPIC	0.89842	-0.01531	-0.03163
BRCA-Her2 (n=82)	NK cell_MCPCOUNTER	0.97351 5	0.00398 2	0.00766 9
BRCA-Her2 (n=82)	NK cell_QUANTISEQ	0.42490 6	0.09549 4	0.13844 3
BRCA-Her2 (n=82)	NK cell_XCELL	0.65951 2	-0.05281	-0.13316
BRCA-Her2 (n=82)	T cell CD8+ central memory_XCELL	0.22304 7	-0.14538	-0.73949
BRCA-Her2 (n=82)	T cell CD8+ effector memory_XCELL	0.61122 3	0.06091 8	0.09711 5
BRCA-Her2 (n=82)	T cell CD8+ naive_XCELL	0.06572 5	-0.21808	-2.20585
BRCA-Her2 (n=82)	T cell CD8+_CIBERSORT	0.00565	-0.323	-12.3584
BRCA-Her2 (n=82)	T cell CD8+_CIBERSORT-ABS	0.17619	-0.16118	-0.97149
BRCA-Her2 (n=82)	T cell CD8+_EPIC	0.69840 3	0.04645 3	0.07727 5
BRCA-Her2 (n=82)	T cell CD8+_MCPCOUNTER	0.91589 6	-0.01267	-0.02604
BRCA-Her2 (n=82)	T cell CD8+_QUANTISEQ	0.51483 9	-0.07801	-0.22959
BRCA-Her2 (n=82)	T cell CD8+_TIMER	0.08998 9	0.20128 4	0.24842 9
BRCA-Her2 (n=82)	T cell CD8+_XCELL	0.31911 8	-0.11908	-0.48068
BRCA-LumA (n=568)	Cancer associated fibroblast_EPIC	3.60E-40	0.53825 7	0.55922 8
BRCA-LumA (n=568)	Cancer associated fibroblast_MCPCOUNTER	2.20E-41	0.54530 4	0.56455
BRCA-LumA (n=568)	Cancer associated fibroblast_TIDE	1.59E-45	0.56815 1	0.58476 3
BRCA-LumA (n=568)	Cancer associated fibroblast_XCELL	2.36E-05	0.18478 7	0.23330 3
BRCA-LumA (n=568)	NK cell activated_CIBERSORT	8.88E-07	-0.21416	-2.09405
BRCA-LumA (n=568)	NK cell activated_CIBERSORT-ABS	4.03E-05	-0.17954	-1.23436
BRCA-LumA (n=568)	NK cell resting_CIBERSORT	0.13019 7	0.06664 3	0.10472 5
BRCA-LumA (n=568)	NK cell resting_CIBERSORT-ABS	0.10652 6	0.07106 6	0.10990 9
BRCA-LumA (n=568)	NK cell_EPIC	1.29E-05	0.19053 3	0.23850 5
BRCA-LumA (n=568)	NK cell_MCPCOUNTER	0.00680 5	-0.11889	-0.47772

BRCA-LumA (n=568)	NK cell_QUANTISEQ	0.04599 2	-0.0878	-0.27894
BRCA-LumA (n=568)	NK cell_XCELL	0.23202 6	-0.05265	-0.13201
BRCA-LumA (n=568)	T cell CD8+ central memory_XCELL	0.00241 1	-0.13318	-0.61359
BRCA-LumA (n=568)	T cell CD8+ effector memory_XCELL	0.00915 6	-0.11452	-0.44592
BRCA-LumA (n=568)	T cell CD8+ naive_XCELL	0.00593 7	-0.12085	-0.49928
BRCA-LumA (n=568)	T cell CD8+_CIBERSORT	2.73E-13	-0.31396	-10.6265
BRCA-LumA (n=568)	T cell CD8+_CIBERSORT-ABS	2.21E-07	-0.22545	-2.47994
BRCA-LumA (n=568)	T cell CD8+_EPIC	1.02E-10	-0.27926	-5.58523
BRCA-LumA (n=568)	T cell CD8+_MCPCOUNTER	0.00037 2	-0.15594	-0.86854
BRCA-LumA (n=568)	T cell CD8+_QUANTISEQ	0.00028 1	-0.15913	-0.93982
BRCA-LumA (n=568)	T cell CD8+_TIMER	2.01E-07	0.22619 5	0.27081 9
BRCA-LumA (n=568)	T cell CD8+_XCELL	0.00427 5	-0.12546	-0.53337
BRCA-LumB (n=219)	Cancer associated fibroblast_EPIC	1.55E-10	0.44088 4	0.46970 7
BRCA-LumB (n=219)	Cancer associated fibroblast_MCPCOUNTER	1.99E-11	0.45967 2	0.48795 1
BRCA-LumB (n=219)	Cancer associated fibroblast_TIDE	2.58E-15	0.53024 8	0.55155 9
BRCA-LumB (n=219)	Cancer associated fibroblast_XCELL	0.21311 9	0.09025 9	0.13237 9
BRCA-LumB (n=219)	NK cell activated_CIBERSORT	0.90074 5	0.00906	0.01703 6
BRCA-LumB (n=219)	NK cell activated_CIBERSORT-ABS	0.54342 3	0.04412	0.07367 2
BRCA-LumB (n=219)	NK cell resting_CIBERSORT	0.74516 1	0.02360 8	0.04213 9
BRCA-LumB (n=219)	NK cell resting_CIBERSORT-ABS	0.70770 9	0.02723 1	0.04812
BRCA-LumB (n=219)	NK cell_EPIC	0.05620 2	0.13804 5	0.18689 1
BRCA-LumB (n=219)	NK cell_MCPCOUNTER	0.92943	0.00643 3	0.01222 8
BRCA-LumB (n=219)	NK cell_QUANTISEQ	0.08208 5	-0.1258	-0.54268
BRCA-LumB (n=219)	NK cell_XCELL	0.11229 1	-0.11497	-0.45371
BRCA-LumB (n=219)	T cell CD8+ central memory_XCELL	0.22014 4	-0.08889	-0.2876

BRCA-LumB (n=219)	T cell CD8+ effector memory_XCELL	0.27476 6	-0.07921	-0.2363
BRCA-LumB (n=219)	T cell CD8+ naive_XCELL	0.09672 5	-0.12022	-0.49205
BRCA-LumB (n=219)	T cell CD8+_CIBERSORT	0.00750 9	-0.19239	-1.5116
BRCA-LumB (n=219)	T cell CD8+_CIBERSORT-ABS	0.08226 9	-0.12573	-0.53971
BRCA-LumB (n=219)	T cell CD8+_EPIC	0.01058 1	-0.1841	-1.30654
BRCA-LumB (n=219)	T cell CD8+_MCPCOUNTER	0.21557 1	-0.08978	-0.29261
BRCA-LumB (n=219)	T cell CD8+_QUANTISEQ	0.27838 1	-0.07862	-0.23295
BRCA-LumB (n=219)	T cell CD8+_TIMER	0.04872 1	0.14245 1	0.19197
BRCA-LumB (n=219)	T cell CD8+_XCELL	0.61066 9	-0.03697	-0.08473
CESC (n=306)	Cancer associated fibroblast_EPIC	0.15554 2	0.08556 3	0.12633 5
CESC (n=306)	Cancer associated fibroblast_MCPCOUNTER	0.26140 3	0.06770 8	0.10583 2
CESC (n=306)	Cancer associated fibroblast_TIDE	0.00311 8	0.17699 6	0.22771 4
CESC (n=306)	Cancer associated fibroblast_XCELL	0.06219 4	-0.1122	-0.42931
CESC (n=306)	NK cell activated_CIBERSORT	0.43713 6	0.04687 4	0.07768 5
CESC (n=306)	NK cell activated_CIBERSORT-ABS	0.48575 8	0.04205 5	0.07062 6
CESC (n=306)	NK cell resting_CIBERSORT	0.70992 8	-0.02245	-0.04818
CESC (n=306)	NK cell resting_CIBERSORT-ABS	0.83594 9	-0.0125	-0.02558
CESC (n=306)	NK cell_EPIC	0.31348 8	0.06077 9	0.09711 5
CESC (n=306)	NK cell_MCPCOUNTER	0.19508 1	0.07808 5	0.11726 1
CESC (n=306)	NK cell_QUANTISEQ	0.00140 1	0.19102 3	0.23877 9
CESC (n=306)	NK cell_XCELL	0.54675 3	0.03636 1	0.06177 2
CESC (n=306)	T cell CD8+ central memory_XCELL	0.94497 4	0.00416 6	0.00800 4
CESC (n=306)	T cell CD8+ effector memory_XCELL	0.40909	-0.04979	-0.12105
CESC (n=306)	T cell CD8+ naive_XCELL	0.42895 5	-0.04771	-0.11441

CESC (n=306)	T cell CD8+_CIBERSORT	0.00765 3	-0.15994	-0.95744
CESC (n=306)	T cell CD8+_CIBERSORT-ABS	0.31667 2	-0.06038	-0.15909
CESC (n=306)	T cell CD8+_EPIC	0.46110 6	-0.04446	-0.10462
CESC (n=306)	T cell CD8+_MCPCOUNTER	0.00235 1	-0.18206	-1.28172
CESC (n=306)	T cell CD8+_QUANTISEQ	0.00207 1	-0.1843	-1.31855
CESC (n=306)	T cell CD8+_TIMER	0.11523 5	0.09485 4	0.13796 9
CESC (n=306)	T cell CD8+_XCELL	0.18754 4	-0.07942	-0.23771
CHOL (n=36)	Cancer associated fibroblast_EPIC	0.00426	0.47136 3	0.49915 7
CHOL (n=36)	Cancer associated fibroblast_MCPCOUNTER	0.01215 1	0.41937 1	0.44950 8
CHOL (n=36)	Cancer associated fibroblast_TIDE	0.00073 2	0.54392 7	0.56378 8
CHOL (n=36)	Cancer associated fibroblast_XCELL	0.33016 9	0.16956	0.22025 3
CHOL (n=36)	NK cell activated_CIBERSORT	0.98148 1	-0.00407	-0.00803
CHOL (n=36)	NK cell activated_CIBERSORT-ABS	0.54861 7	0.10492	0.14916
CHOL (n=36)	NK cell resting_CIBERSORT	0.66569 5	-0.07568	-0.21978
CHOL (n=36)	NK cell resting_CIBERSORT-ABS	0.57277 4	-0.09868	-0.33921
CHOL (n=36)	NK cell_EPIC	0.88969 3	-0.02432	-0.05259
CHOL (n=36)	NK cell_MCPCOUNTER	0.77915 7	-0.04916	-0.11917
CHOL (n=36)	NK cell_QUANTISEQ	0.39248 4	-0.14915	-0.8003
CHOL (n=36)	NK cell_XCELL	0.91424 2	-0.01889	-0.03957
CHOL (n=36)	T cell CD8+ central memory_XCELL	0.61452 2	-0.08816	-0.2811
CHOL (n=36)	T cell CD8+ effector memory_XCELL	0.36956 7	-0.15641	-0.88802
CHOL (n=36)	T cell CD8+ naive_XCELL	0.25225 8	-0.1988	-1.68216
CHOL (n=36)	T cell CD8+_CIBERSORT	0.54660 3	-0.10545	-0.3803

CHOL (n=36)	T cell CD8+_CIBERSORT-ABS	0.70043 2	-0.06741	-0.18831
CHOL (n=36)	T cell CD8+_EPIC	0.31687 1	-0.17421	-1.14409
CHOL (n=36)	T cell CD8+_MCPCOUNTER	0.27687 8	-0.189	-1.40948
CHOL (n=36)	T cell CD8+_QUANTISEQ	0.44702 4	-0.13278	-0.60542
CHOL (n=36)	T cell CD8+_TIMER	0.13502 4	0.2577	0.30439 7
CHOL (n=36)	T cell CD8+_XCELL	0.54189 5	-0.10668	-0.38793
COAD (n=458)	Cancer associated fibroblast_EPIC	7.74E-39	0.68111 2	0.69052 8
COAD (n=458)	Cancer associated fibroblast_MCPCOUNTER	5.28E-41	0.69503 6	0.70302 5
COAD (n=458)	Cancer associated fibroblast_TIDE	1.06E-42	0.60977 5	0.62395 6
COAD (n=458)	Cancer associated fibroblast_XCELL	2.42E-13	0.42267 9	0.45250 3
COAD (n=458)	NK cell activated_CIBERSORT	0.91750 3	0.00627 5	0.01195 2
COAD (n=458)	NK cell activated_CIBERSORT-ABS	0.00409 3	0.17260 5	0.2237
COAD (n=458)	NK cell resting_CIBERSORT	0.00377	-0.17414	-1.13512
COAD (n=458)	NK cell resting_CIBERSORT-ABS	0.14328 7	-0.08849	-0.28421
COAD (n=458)	NK cell_EPIC	7.17E-09	0.34006 3	0.38268
COAD (n=458)	NK cell_MCPCOUNTER	3.61E-06	0.27521 3	0.32077 8
COAD (n=458)	NK cell_QUANTISEQ	0.64631 4	0.02779 3	0.04881 9
COAD (n=458)	NK cell_XCELL	0.40552 9	-0.05036	-0.12309
COAD (n=458)	T cell CD8+ central memory_XCELL	0.00105 3	0.19651 8	0.24495 2
COAD (n=458)	T cell CD8+ effector memory_XCELL	0.10224 8	0.09874 6	0.14245 3
COAD (n=458)	T cell CD8+ naive_XCELL	5.74E-05	-0.24015	-3.35445
COAD (n=458)	T cell CD8+_CIBERSORT	0.14346	-0.08845	-0.28305
COAD (n=458)	T cell CD8+_CIBERSORT-ABS	0.00016 9	0.22492 5	0.26966 5
COAD (n=458)	T cell CD8+_EPIC	8.73E-07	-0.29145	-7.32786
COAD (n=458)	T cell CD8+_MCPCOUNTER	0.00231 8	0.18297 3	0.23201 2

COAD (n=458)	T cell CD8+_QUANTISEQ	0.00044 6	0.21031 2	0.25704 8
COAD (n=458)	T cell CD8+_TIMER	9.13E-10	0.35856 9	0.39790 8
COAD (n=458)	T cell CD8+_XCELL	0.92077 1	0.00602 5	0.01152 6
DLBC (n=48)	Cancer associated fibroblast_EPIC	1.27E-07	0.71784 4	0.7236
DLBC (n=48)	Cancer associated fibroblast_MCPCOUNTER	4.99E-09	0.76695	0.77133 3
DLBC (n=48)	Cancer associated fibroblast_TIDE	6.27E-10	0.79320 2	0.79591 6
DLBC (n=48)	Cancer associated fibroblast_XCELL	0.02049 1	0.36076 5	0.39888 9
DLBC (n=48)	NK cell activated_CIBERSORT	0.26887 2	-0.17678	-1.18752
DLBC (n=48)	NK cell activated_CIBERSORT-ABS	0.17842 9	-0.21433	-2.11917
DLBC (n=48)	NK cell resting_CIBERSORT	0.82348 9	-0.03594	-0.08193
DLBC (n=48)	NK cell resting_CIBERSORT-ABS	0.744	-0.05259	-0.13148
DLBC (n=48)	NK cell_EPIC	0.65986 4	-0.07084	-0.20173
DLBC (n=48)	NK cell_MCPCOUNTER	0.05423 7	-0.30289	-8.59811
DLBC (n=48)	NK cell_QUANTISEQ	0.75365	0.05054 4	0.08282 8
DLBC (n=48)	NK cell_XCELL	0.49026 5	0.11083 7	0.15553 1
DLBC (n=48)	T cell CD8+ central memory_XCELL	0.00070 1	-0.50779	-74.4754
DLBC (n=48)	T cell CD8+ effector memory_XCELL	0.05253 1	-0.30496	-8.94541
DLBC (n=48)	T cell CD8+ naive_XCELL	0.36002 8	-0.14671	-0.76848
DLBC (n=48)	T cell CD8+_CIBERSORT	0.07152 7	-0.2844	-6.586
DLBC (n=48)	T cell CD8+_CIBERSORT-ABS	0.07413 6	-0.28192	-6.20228
DLBC (n=48)	T cell CD8+_EPIC	0.11322 4	-0.25114	-4.09269
DLBC (n=48)	T cell CD8+_MCPCOUNTER	0.03120 7	-0.33698	-16.4744
DLBC (n=48)	T cell CD8+_QUANTISEQ	0.07746 8	-0.27886	-5.45327
DLBC (n=48)	T cell CD8+_TIMER	0.28746 6	-0.17017	-1.09305

DLBC (n=48)	T cell CD8+_XCELL	0.00027 3	-0.53946	-158.242
ESCA (n=185)	Cancer associated fibroblast_EPIC	4.64E-06	0.33388 1	0.37733 8
ESCA (n=185)	Cancer associated fibroblast_MCPCOUNTER	4.27E-06	0.33508 7	0.37804 7
ESCA (n=185)	Cancer associated fibroblast_TIDE	2.45E-17	0.57660 4	0.59207 9
ESCA (n=185)	Cancer associated fibroblast_XCELL	0.1515	0.10734 2	0.15211 1
ESCA (n=185)	NK cell activated_CIBERSORT	0.40635 3	0.06226 3	0.09890 1
ESCA (n=185)	NK cell activated_CIBERSORT-ABS	0.68661 2	0.03027 6	0.05234 3
ESCA (n=185)	NK cell resting_CIBERSORT	0.93613 5	-0.00601	-0.01197
ESCA (n=185)	NK cell resting_CIBERSORT-ABS	0.89867 9	-0.00956	-0.0192
ESCA (n=185)	NK cell_EPIC	1.03E-05	0.32212 3	0.36529 4
ESCA (n=185)	NK cell_MCPCOUNTER	0.33792 7	-0.07183	-0.20591
ESCA (n=185)	NK cell_QUANTISEQ	0.05768 7	0.14174 6	0.19131 4
ESCA (n=185)	NK cell_XCELL	0.31472 8	0.07535 3	0.11472 4
ESCA (n=185)	T cell CD8+ central memory_XCELL	0.00224 6	-0.22636	-2.55384
ESCA (n=185)	T cell CD8+ effector memory_XCELL	0.71388 5	0.02751 4	0.04852 3
ESCA (n=185)	T cell CD8+ naive_XCELL	0.29935 3	0.07777 9	0.11700 1
ESCA (n=185)	T cell CD8+_CIBERSORT	0.02587	-0.16608	-1.02922
ESCA (n=185)	T cell CD8+_CIBERSORT-ABS	0.03598 6	-0.15643	-0.89391
ESCA (n=185)	T cell CD8+_EPIC	0.04954	-0.14661	-0.76342
ESCA (n=185)	T cell CD8+_MCPCOUNTER	0.02321 7	-0.16914	-1.07858
ESCA (n=185)	T cell CD8+_QUANTISEQ	0.03402 7	-0.1581	-0.9214
ESCA (n=185)	T cell CD8+_TIMER	0.14759 7	0.10837	0.15259 8
ESCA (n=185)	T cell CD8+_XCELL	0.86656 1	0.01261 1	0.02316 9
GBM (n=153)	Cancer associated fibroblast_EPIC	3.51E-07	0.41885	0.44949 8

GBM (n=153)	Cancer associated fibroblast_MCPCOUNTER	2.13E-09	0.48368 7	0.50975 4
GBM (n=153)	Cancer associated fibroblast_TIDE	1.27E-08	0.46255 1	0.49041 5
GBM (n=153)	Cancer associated fibroblast_XCELL	0.03522 7	0.18008 2	0.23000 3
GBM (n=153)	NK cell activated_CIBERSORT	0.00073 2	-0.28516	-6.78208
GBM (n=153)	NK cell activated_CIBERSORT-ABS	0.00400 7	-0.24435	-3.58387
GBM (n=153)	NK cell resting_CIBERSORT	0.00221 8	0.25927 5	0.30464 8
GBM (n=153)	NK cell resting_CIBERSORT-ABS	0.00178 4	0.26455 1	0.30999 4
GBM (n=153)	NK cell_EPIC	0.97489 6	-0.00271	-0.00532
GBM (n=153)	NK cell_MCPCOUNTER	0.00549 9	-0.236	-3.24494
GBM (n=153)	NK cell_QUANTISEQ	0.00321 1	-0.25004	-4.00061
GBM (n=153)	NK cell_XCELL	0.38551 6	0.07472	0.11435 4
GBM (n=153)	T cell CD8+ central memory_XCELL	0.06458 2	0.15835	0.20923 2
GBM (n=153)	T cell CD8+ effector memory_XCELL	0.30009	-0.08917	-0.28956
GBM (n=153)	T cell CD8+ naive_XCELL	0.11136 4	-0.13663	-0.65347
GBM (n=153)	T cell CD8+_CIBERSORT	0.35628 5	0.07941 5	0.11844 9
GBM (n=153)	T cell CD8+_CIBERSORT-ABS	0.33982 4	0.08216 4	0.12213 6
GBM (n=153)	T cell CD8+_EPIC	0.40858	-0.07117	-0.20333
GBM (n=153)	T cell CD8+_MCPCOUNTER	0.18279 9	-0.11449	-0.44384
GBM (n=153)	T cell CD8+_QUANTISEQ	0.11876	0.13390 6	0.18156 7
GBM (n=153)	T cell CD8+_TIMER	0.07773 5	0.15122 5	0.20132 8
GBM (n=153)	T cell CD8+_XCELL	0.83313	0.01816 5	0.03309 6
HNSC (n=522)	Cancer associated fibroblast_EPIC	6.04E-07	0.2227	0.26772 7
HNSC (n=522)	Cancer associated fibroblast_MCPCOUNTER	3.35E-06	0.20778 7	0.25502 5
HNSC (n=522)	Cancer associated fibroblast_TIDE	2.19E-09	0.26554 9	0.31074 9

HNSC (n=522)	Cancer associated fibroblast_XCELL	0.41895 2	0.03651 9	0.06192 1
HNSC (n=522)	NK cell activated_CIBERSORT	0.00308 7	-0.13314	-0.61023
HNSC (n=522)	NK cell activated_CIBERSORT-ABS	0.00255 7	-0.13571	-0.63864
HNSC (n=522)	NK cell resting_CIBERSORT	0.43940 3	0.03493 7	0.05958 2
HNSC (n=522)	NK cell resting_CIBERSORT-ABS	0.52669 5	0.02860 7	0.05009 9
HNSC (n=522)	NK cell_EPIC	0.22740 1	-0.05452	-0.13826
HNSC (n=522)	NK cell_MCPCOUNTER	5.18E-07	-0.22398	-2.43336
HNSC (n=522)	NK cell_QUANTISEQ	0.81974 2	0.01029 9	0.01912 1
HNSC (n=522)	NK cell_XCELL	0.67435 9	-0.01899	-0.04007
HNSC (n=522)	T cell CD8+ central memory_XCELL	0.00268 8	-0.13504	-0.62873
HNSC (n=522)	T cell CD8+ effector memory_XCELL	0.01699 3	-0.10757	-0.39773
HNSC (n=522)	T cell CD8+ naive_XCELL	0.49721 7	0.03067 7	0.05293 3
HNSC (n=522)	T cell CD8+_CIBERSORT	1.08E-08	-0.25418	-4.3858
HNSC (n=522)	T cell CD8+_CIBERSORT-ABS	2.86E-06	-0.20922	-1.95864
HNSC (n=522)	T cell CD8+_EPIC	0.01268 4	-0.1123	-0.43155
HNSC (n=522)	T cell CD8+_MCPCOUNTER	2.43E-05	-0.18907	-1.42203
HNSC (n=522)	T cell CD8+_QUANTISEQ	9.54E-07	-0.21882	-2.23909
HNSC (n=522)	T cell CD8+_TIMER	9.28E-06	0.19838 4	0.24638 6
HNSC (n=522)	T cell CD8+_XCELL	0.19092 3	0.05906 1	0.09519
HNSC-HPV+ (n=98)	Cancer associated fibroblast_EPIC	0.06179 5	0.19881 2	0.24638 6
HNSC-HPV+ (n=98)	Cancer associated fibroblast_MCPCOUNTER	0.04435	0.21369 3	0.25937 9
HNSC-HPV+ (n=98)	Cancer associated fibroblast_TIDE	0.02377 2	0.23953	0.28499 8
HNSC-HPV+ (n=98)	Cancer associated fibroblast_XCELL	0.59601 5	-0.05695	-0.14741
HNSC-HPV+ (n=98)	NK cell activated_CIBERSORT	0.74416 5	-0.03508	-0.07915
HNSC-HPV+ (n=98)	NK cell activated_CIBERSORT-ABS	0.97774 8	0.00299 9	0.0058

HNSC-HPV+ (n=98)	NK cell resting_CIBERSORT	0.76820 2	0.03168 1	0.05424
HNSC-HPV+ (n=98)	NK cell resting_CIBERSORT-ABS	0.46136 3	0.07907 5	0.11834 4
HNSC-HPV+ (n=98)	NK cell_EPIC	0.15334 3	0.15261 8	0.20257
HNSC-HPV+ (n=98)	NK cell_MCPCOUNTER	0.80538 6	0.02648 6	0.04689 7
HNSC-HPV+ (n=98)	NK cell_QUANTISEQ	0.40255	0.08982	0.13195 6
HNSC-HPV+ (n=98)	NK cell_XCELL	0.76829 1	0.03166 9	0.05424
HNSC-HPV+ (n=98)	T cell CD8+ central memory_XCELL	0.63745 8	-0.05064	-0.12482
HNSC-HPV+ (n=98)	T cell CD8+ effector memory_XCELL	0.01961 1	-0.24702	-3.81362
HNSC-HPV+ (n=98)	T cell CD8+ naive_XCELL	0.68039 2	-0.04427	-0.10388
HNSC-HPV+ (n=98)	T cell CD8+_CIBERSORT	0.02104 2	-0.2443	-3.52435
HNSC-HPV+ (n=98)	T cell CD8+_CIBERSORT-ABS	0.28501 3	-0.11457	-0.44811
HNSC-HPV+ (n=98)	T cell CD8+_EPIC	0.46887 5	-0.07776	-0.2281
HNSC-HPV+ (n=98)	T cell CD8+_MCPCOUNTER	0.964	-0.00485	-0.0096
HNSC-HPV+ (n=98)	T cell CD8+_QUANTISEQ	0.56294 3	-0.06214	-0.16671
HNSC-HPV+ (n=98)	T cell CD8+_TIMER	0.05701 1	0.20250 9	0.24959 1
HNSC-HPV+ (n=98)	T cell CD8+_XCELL	0.75596 5	-0.03341	-0.0748
HNSC-HPV- (n=422)	Cancer associated fibroblast_EPIC	2.66E-05	0.20840 1	0.25506 7
HNSC-HPV- (n=422)	Cancer associated fibroblast_MCPCOUNTER	0.00018	0.18620 8	0.23442 5
HNSC-HPV- (n=422)	Cancer associated fibroblast_TIDE	1.83E-06	0.23593 6	0.28133 3
HNSC-HPV- (n=422)	Cancer associated fibroblast_XCELL	0.19312 1	0.06520 5	0.10301 7
HNSC-HPV- (n=422)	NK cell activated_CIBERSORT	0.00284 7	-0.14882	-0.79373
HNSC-HPV- (n=422)	NK cell activated_CIBERSORT-ABS	0.00389 3	-0.14403	-0.72845
HNSC-HPV- (n=422)	NK cell resting_CIBERSORT	0.75705 4	0.01551 5	0.02833 1
HNSC-HPV- (n=422)	NK cell resting_CIBERSORT-ABS	0.95202	-0.00302	-0.00593

HNSC-HPV- (n=422)	NK cell_EPIC	0.03807 3	-0.10375	-0.36814
HNSC-HPV- (n=422)	NK cell_MCPCOUNTER	3.09E-07	-0.25251	-4.19267
HNSC-HPV- (n=422)	NK cell_QUANTISEQ	0.62517 4	0.0245	0.04355 5
HNSC-HPV- (n=422)	NK cell_XCELL	0.47445 5	-0.03586	-0.08155
HNSC-HPV- (n=422)	T cell CD8+ central memory_XCELL	0.01600 6	-0.12038	-0.49501
HNSC-HPV- (n=422)	T cell CD8+ effector memory_XCELL	0.22652 3	-0.0606	-0.16015
HNSC-HPV- (n=422)	T cell CD8+ naive_XCELL	0.48750 5	0.03481 3	0.05948 5
HNSC-HPV- (n=422)	T cell CD8+_CIBERSORT	1.93E-06	-0.23543	-3.09219
HNSC-HPV- (n=422)	T cell CD8+_CIBERSORT-ABS	4.18E-05	-0.20336	-1.77184
HNSC-HPV- (n=422)	T cell CD8+_EPIC	0.10033 5	-0.08228	-0.25054
HNSC-HPV- (n=422)	T cell CD8+_MCPCOUNTER	6.75E-05	-0.19789	-1.65851
HNSC-HPV- (n=422)	T cell CD8+_QUANTISEQ	6.55E-06	-0.22324	-2.3958
HNSC-HPV- (n=422)	T cell CD8+_TIMER	0.00128 5	0.16042 8	0.21102 7
HNSC-HPV- (n=422)	T cell CD8+_XCELL	0.02467	0.11232 2	0.15689 5
KICH (n=66)	Cancer associated fibroblast_EPIC	7.04E-10	0.67490 2	0.68502 1
KICH (n=66)	Cancer associated fibroblast_MCPCOUNTER	5.00E-08	0.61507 3	0.62864 6
KICH (n=66)	Cancer associated fibroblast_TIDE	1.98E-08	0.62922 5	0.64087 7
KICH (n=66)	Cancer associated fibroblast_XCELL	0.19691 2	0.16213 9	0.21200 9
KICH (n=66)	NK cell activated_CIBERSORT	0.82185 6	-0.02847	-0.0628
KICH (n=66)	NK cell activated_CIBERSORT-ABS	0.06416 2	0.23096 1	0.27614 9
KICH (n=66)	NK cell resting_CIBERSORT	0.30916 9	-0.1281	-0.56366
KICH (n=66)	NK cell resting_CIBERSORT-ABS	0.59929 8	-0.06639	-0.18371
KICH (n=66)	NK cell_EPIC	0.37414	-0.11206	-0.42506
KICH (n=66)	NK cell_MCPCOUNTER	0.03760 3	0.25850 2	0.30464 8
KICH (n=66)	NK cell_QUANTISEQ	0.76048 9	-0.03854	-0.08903
KICH (n=66)	NK cell_XCELL	0.45299	0.09470 9	0.13796 9

KICH (n=66)	T cell CD8+ central memory_XCELL	0.99466 2	0.00084 6	0.00164 7
KICH (n=66)	T cell CD8+ effector memory_XCELL	0.65594 2	-0.05631	-0.14489
KICH (n=66)	T cell CD8+ naive_XCELL	0.74725 6	-0.04075	-0.09486
KICH (n=66)	T cell CD8+_CIBERSORT	0.48923 3	-0.0873	-0.27537
KICH (n=66)	T cell CD8+_CIBERSORT-ABS	0.52255 9	0.08074 6	0.12023
KICH (n=66)	T cell CD8+_EPIC	0.11137 6	0.19934 8	0.24638 6
KICH (n=66)	T cell CD8+_MCPCOUNTER	0.02365 7	0.28043 2	0.32599 7
KICH (n=66)	T cell CD8+_QUANTISEQ	0.22113 9	0.15383 7	0.20388
KICH (n=66)	T cell CD8+_TIMER	0.67949 8	0.05222 3	0.08510 4
KICH (n=66)	T cell CD8+_XCELL	0.23931 5	0.14801 8	0.19795 7
KIRC (n=533)	Cancer associated fibroblast_EPIC	3.50E-12	0.31647 8	0.36028 6
KIRC (n=533)	Cancer associated fibroblast_MCPCOUNTER	4.09E-08	0.25210 6	0.29887 8
KIRC (n=533)	Cancer associated fibroblast_TIDE	1.28E-14	0.34859 9	0.38979 3
KIRC (n=533)	Cancer associated fibroblast_XCELL	0.13715 1	0.06933 7	0.10780 4
KIRC (n=533)	NK cell activated_CIBERSORT	0.00264 8	-0.13969	-0.69061
KIRC (n=533)	NK cell activated_CIBERSORT-ABS	0.53931 2	-0.02866	-0.06337
KIRC (n=533)	NK cell resting_CIBERSORT	0.08494 6	-0.08032	-0.24207
KIRC (n=533)	NK cell resting_CIBERSORT-ABS	0.12299 7	-0.07194	-0.20687
KIRC (n=533)	NK cell_EPIC	0.27203 6	0.05126 2	0.08369 4
KIRC (n=533)	NK cell_MCPCOUNTER	0.67086 8	0.01984 4	0.03578 5
KIRC (n=533)	NK cell_QUANTISEQ	3.57E-06	-0.21396	-2.06904
KIRC (n=533)	NK cell_XCELL	0.17847 9	-0.06277	-0.16893
KIRC (n=533)	T cell CD8+ central memory_XCELL	0.15883 1	0.06573 2	0.10347 8
KIRC (n=533)	T cell CD8+ effector memory_XCELL	0.93754 6	0.00365 9	0.00706 2

KIRC (n=533)	T cell CD8+ naive_XCELL	5.78E-06	-0.20941	-1.98154
KIRC (n=533)	T cell CD8+_CIBERSORT	0.03507 8	-0.09818	-0.3336
KIRC (n=533)	T cell CD8+_CIBERSORT-ABS	0.93371 4	-0.00388	-0.00765
KIRC (n=533)	T cell CD8+_EPIC	0.07314 2	-0.08354	-0.25705
KIRC (n=533)	T cell CD8+_MCPCOUNTER	0.21485 4	0.05787 7	0.09362 4
KIRC (n=533)	T cell CD8+_QUANTISEQ	0.03007 1	0.10104 3	0.14505 5
KIRC (n=533)	T cell CD8+_TIMER	0.53294 3	0.02911 3	0.05059 7
KIRC (n=533)	T cell CD8+_XCELL	0.53783 4	0.02876 6	0.05016 4
KIRP (n=290)	Cancer associated fibroblast_EPIC	1.21E-09	0.36697 7	0.40367 5
KIRP (n=290)	Cancer associated fibroblast_MCPCOUNTER	6.96E-18	0.50210 8	0.52539 2
KIRP (n=290)	Cancer associated fibroblast_TIDE	2.12E-28	0.61648 9	0.62936 3
KIRP (n=290)	Cancer associated fibroblast_XCELL	0.00013 4	0.23552 3	0.28122 1
KIRP (n=290)	NK cell activated_CIBERSORT	0.41602 7	-0.05085	-0.1257
KIRP (n=290)	NK cell activated_CIBERSORT-ABS	2.24E-06	0.28959 7	0.33445 9
KIRP (n=290)	NK cell resting_CIBERSORT	0.23952 5	-0.07348	-0.21271
KIRP (n=290)	NK cell resting_CIBERSORT-ABS	0.29017 9	-0.0661	-0.18235
KIRP (n=290)	NK cell_EPIC	0.80428 5	0.01550 2	0.02833 1
KIRP (n=290)	NK cell_MCPCOUNTER	6.52E-07	0.30386 1	0.34727
KIRP (n=290)	NK cell_QUANTISEQ	0.85723 6	-0.01125	-0.02287
KIRP (n=290)	NK cell_XCELL	0.02607 8	-0.13853	-0.67351
KIRP (n=290)	T cell CD8+ central memory_XCELL	0.26488 8	0.06966 5	0.10812 3
KIRP (n=290)	T cell CD8+ effector memory_XCELL	0.40448 1	-0.05212	-0.12956
KIRP (n=290)	T cell CD8+ naive_XCELL	0.2439	-0.07281	-0.21006
KIRP (n=290)	T cell CD8+_CIBERSORT	0.64534	0.02878 7	0.05016 4

KIRP (n=290)	T cell CD8+_CIBERSORT-ABS	3.61E-06	0.28383	0.32951 3
KIRP (n=290)	T cell CD8+_EPIC	0.05235 2	0.12093 7	0.16759 7
KIRP (n=290)	T cell CD8+_MCPCOUNTER	4.13E-05	0.25234 8	0.29887 8
KIRP (n=290)	T cell CD8+_QUANTISEQ	1.49E-06	0.29436 4	0.33950 2
KIRP (n=290)	T cell CD8+_TIMER	1.16E-08	0.34586 1	0.38771 7
KIRP (n=290)	T cell CD8+_XCELL	0.42058 7	0.05035 5	0.08267 2
LGG (n=516)	Cancer associated fibroblast_EPIC	0.81466 7	0.01074 9	0.01991 5
LGG (n=516)	Cancer associated fibroblast_MCPCOUNTER	8.07E-05	0.17932 7	0.22987 2
LGG (n=516)	Cancer associated fibroblast_TIDE	0.67849 5	0.01900 8	0.03434 7
LGG (n=516)	Cancer associated fibroblast_XCELL	0.01278 2	0.11380 8	0.15871 8
LGG (n=516)	NK cell activated_CIBERSORT	0.00861	-0.12004	-0.48906
LGG (n=516)	NK cell activated_CIBERSORT-ABS	0.59107 7	-0.02464	-0.0534
LGG (n=516)	NK cell resting_CIBERSORT	0.02444 3	0.10291 3	0.14678
LGG (n=516)	NK cell resting_CIBERSORT-ABS	0.00883	0.11965 2	0.16607 9
LGG (n=516)	NK cell_EPIC	0.19033 6	0.06000 2	0.09617 8
LGG (n=516)	NK cell_MCPCOUNTER	0.00249 2	-0.13803	-0.66375
LGG (n=516)	NK cell_QUANTISEQ	1.19E-06	-0.22	-2.30474
LGG (n=516)	NK cell_XCELL	0.18357 5	-0.06093	-0.1615
LGG (n=516)	T cell CD8+ central memory_XCELL	0.67883 8	-0.01899	-0.03997
LGG (n=516)	T cell CD8+ effector memory_XCELL	0.82645 1	0.01005 5	0.01870 6
LGG (n=516)	T cell CD8+ naive_XCELL	0.88395	0.00669 4	0.01266 8
LGG (n=516)	T cell CD8+_CIBERSORT	0.00086 8	0.15182 6	0.20182 3
LGG (n=516)	T cell CD8+_CIBERSORT-ABS	8.52E-05	0.17874 1	0.22962 3
LGG (n=516)	T cell CD8+_EPIC	0.44826 8	-0.03476	-0.07824

LGG (n=516)	T cell CD8+_MCPCOUNTER	0.68822 6	-0.0184	-0.03837
LGG (n=516)	T cell CD8+_QUANTISEQ	6.51E-05	0.18161 9	0.23096 1
LGG (n=516)	T cell CD8+_TIMER	0.00181 8	-0.14228	-0.71139
LGG (n=516)	T cell CD8+_XCELL	0.22934 1	-0.05508	-0.14132
LIHC (n=371)	Cancer associated fibroblast_EPIC	7.83E-05	0.21099 6	0.25717
LIHC (n=371)	Cancer associated fibroblast_MCPCOUNTER	0.00056 6	0.18466 4	0.23330 3
LIHC (n=371)	Cancer associated fibroblast_TIDE	0.00019 7	0.19912	0.24638 6
LIHC (n=371)	Cancer associated fibroblast_XCELL	0.92408 2	-0.00515	-0.01021
LIHC (n=371)	NK cell activated_CIBERSORT	0.15144 2	-0.07739	-0.22627
LIHC (n=371)	NK cell activated_CIBERSORT-ABS	0.01602 4	0.12958 5	0.17705 2
LIHC (n=371)	NK cell resting_CIBERSORT	0.02405 7	-0.12146	-0.50418
LIHC (n=371)	NK cell resting_CIBERSORT-ABS	0.04643 8	-0.10729	-0.39505
LIHC (n=371)	NK cell_EPIC	0.90976 6	0.00612 4	0.01169
LIHC (n=371)	NK cell_MCPCOUNTER	0.00178 5	0.16759 5	0.21817 2
LIHC (n=371)	NK cell_QUANTISEQ	0.11559 9	-0.08487	-0.26298
LIHC (n=371)	NK cell_XCELL	0.84199 1	-0.01077	-0.02184
LIHC (n=371)	T cell CD8+ central memory_XCELL	0.73410 5	0.01835 2	0.03323
LIHC (n=371)	T cell CD8+ effector memory_XCELL	0.14277 8	-0.07906	-0.23506
LIHC (n=371)	T cell CD8+ naive_XCELL	4.05E-09	-0.30998	-9.74218
LIHC (n=371)	T cell CD8+_CIBERSORT	0.95791 1	0.00285 2	0.00552 7
LIHC (n=371)	T cell CD8+_CIBERSORT-ABS	0.00565 3	0.14869 6	0.19856 2
LIHC (n=371)	T cell CD8+_EPIC	0.02318	-0.12222	-0.51462
LIHC (n=371)	T cell CD8+_MCPCOUNTER	0.01859 4	0.12666 1	0.17361 6
LIHC (n=371)	T cell CD8+_QUANTISEQ	0.0586	0.10192 3	0.14584 1

LIHC (n=371)	T cell CD8+_TIMER	4.18E-05	0.21870 4	0.26436 7
LIHC (n=371)	T cell CD8+_XCELL	0.07994 5	-0.0944	-0.31468
LUAD (n=515)	Cancer associated fibroblast_EPIC	4.38E-18	0.37687 8	0.41250 3
LUAD (n=515)	Cancer associated fibroblast_MCPCOUNTER	3.95E-21	0.40735 4	0.43930 4
LUAD (n=515)	Cancer associated fibroblast_TIDE	1.25E-20	0.40254 6	0.43465 1
LUAD (n=515)	Cancer associated fibroblast_XCELL	0.00407 2	0.12915 9	0.17676 5
LUAD (n=515)	NK cell activated_CIBERSORT	0.01400 5	-0.1106	-0.41773
LUAD (n=515)	NK cell activated_CIBERSORT-ABS	0.55368 7	-0.02674	-0.05853
LUAD (n=515)	NK cell resting_CIBERSORT	0.01902 8	0.10558 5	0.14986 3
LUAD (n=515)	NK cell resting_CIBERSORT-ABS	0.01641 3	0.10803	0.15259 8
LUAD (n=515)	NK cell_EPIC	0.83433	0.00944 3	0.01764 4
LUAD (n=515)	NK cell_MCPCOUNTER	0.00148 8	0.14271 4	0.19203 1
LUAD (n=515)	NK cell_QUANTISEQ	0.78604 7	-0.01226	-0.02502
LUAD (n=515)	NK cell_XCELL	0.00858 8	-0.11824	-0.47298
LUAD (n=515)	T cell CD8+ central memory_XCELL	0.18327 9	-0.06003	-0.15769
LUAD (n=515)	T cell CD8+ effector memory_XCELL	0.03180 3	-0.09671	-0.32732
LUAD (n=515)	T cell CD8+ naive_XCELL	0.16219	-0.06305	-0.17019
LUAD (n=515)	T cell CD8+_CIBERSORT	0.19848 4	-0.05801	-0.15104
LUAD (n=515)	T cell CD8+_CIBERSORT-ABS	0.64531 8	0.02078	0.03739 6
LUAD (n=515)	T cell CD8+_EPIC	2.34E-10	-0.28039	-5.73819
LUAD (n=515)	T cell CD8+_MCPCOUNTER	0.50336 1	0.03021	0.05233 1
LUAD (n=515)	T cell CD8+_QUANTISEQ	0.82030 5	-0.01026	-0.0207
LUAD (n=515)	T cell CD8+_TIMER	0.15884 1	0.06355 5	0.10066 6
LUAD (n=515)	T cell CD8+_XCELL	0.00244 5	-0.13618	-0.64777

LUSC (n=501)	Cancer associated fibroblast_EPIC	7.06E-13	0.32078 6	0.36424 7
LUSC (n=501)	Cancer associated fibroblast_MCPCOUNTER	9.73E-15	0.34450 9	0.38669 3
LUSC (n=501)	Cancer associated fibroblast_TIDE	8.83E-32	0.50175	0.52539 2
LUSC (n=501)	Cancer associated fibroblast_XCELL	7.14E-06	0.20392 4	0.25098 3
LUSC (n=501)	NK cell activated_CIBERSORT	0.02985 9	-0.09946	-0.34732
LUSC (n=501)	NK cell activated_CIBERSORT-ABS	0.18094 2	-0.06136	-0.16412
LUSC (n=501)	NK cell resting_CIBERSORT	0.00590 1	0.12589 1	0.17283
LUSC (n=501)	NK cell resting_CIBERSORT-ABS	0.00764 9	0.12198 5	0.16859
LUSC (n=501)	NK cell_EPIC	0.64508 6	-0.02114	-0.04516
LUSC (n=501)	NK cell_MCPCOUNTER	0.03761	-0.09523	-0.31863
LUSC (n=501)	NK cell_QUANTISEQ	0.14006 2	0.06766 1	0.10583 2
LUSC (n=501)	NK cell_XCELL	0.16221 8	-0.0641	-0.17463
LUSC (n=501)	T cell CD8+ central memory_XCELL	0.00136 3	-0.14622	-0.75693
LUSC (n=501)	T cell CD8+ effector memory_XCELL	0.00039 9	-0.16148	-0.98002
LUSC (n=501)	T cell CD8+ naive_XCELL	0.55964 5	-0.02678	-0.05876
LUSC (n=501)	T cell CD8+_CIBERSORT	4.20E-07	-0.22917	-2.72523
LUSC (n=501)	T cell CD8+_CIBERSORT-ABS	0.00062 1	-0.15614	-0.87519
LUSC (n=501)	T cell CD8+_EPIC	0.00309 5	-0.13518	-0.63274
LUSC (n=501)	T cell CD8+_MCPCOUNTER	0.03089 5	-0.09884	-0.34111
LUSC (n=501)	T cell CD8+_QUANTISEQ	0.02527 4	-0.10243	-0.36056
LUSC (n=501)	T cell CD8+_TIMER	0.00039 9	0.16149 3	0.21200 9
LUSC (n=501)	T cell CD8+_XCELL	0.00057 3	-0.15713	-0.90971
MESO (n=87)	Cancer associated fibroblast_EPIC	0.00155 5	0.33805	0.38090 1
MESO (n=87)	Cancer associated fibroblast_MCPCOUNTER	0.00060 4	0.36454 3	0.40225 9

MESO (n=87)	Cancer associated fibroblast_TIDE	0.00017	0.39685 9	0.43009 3
MESO (n=87)	Cancer associated fibroblast_XCELL	0.11050 5	0.17435 6	0.22497 5
MESO (n=87)	NK cell activated_CIBERSORT	0.08562 9	-0.18756	-1.37545
MESO (n=87)	NK cell activated_CIBERSORT-ABS	0.01822 2	-0.25561	-4.49873
MESO (n=87)	NK cell resting_CIBERSORT	0.83452 7	0.02299 6	0.04113 1
MESO (n=87)	NK cell resting_CIBERSORT-ABS	0.84812 1	0.02108 3	0.03786 3
MESO (n=87)	NK cell_EPIC	0.12780 1	-0.16648	-1.03905
MESO (n=87)	NK cell_MCPCOUNTER	0.00606 2	-0.29537	-7.87662
MESO (n=87)	NK cell_QUANTISEQ	0.26149 1	0.12315 2	0.16986 5
MESO (n=87)	NK cell_XCELL	0.32150 5	-0.10882	-0.40924
MESO (n=87)	T cell CD8+ central memory_XCELL	0.00881 1	-0.28247	-6.37378
MESO (n=87)	T cell CD8+ effector memory_XCELL	0.42533 2	0.0876	0.12912 5
MESO (n=87)	T cell CD8+ naive_XCELL	0.27545 6	-0.11964	-0.48516
MESO (n=87)	T cell CD8+_CIBERSORT	0.15886 3	-0.15418	-0.85335
MESO (n=87)	T cell CD8+_CIBERSORT-ABS	0.13918 8	-0.16174	-0.98839
MESO (n=87)	T cell CD8+_EPIC	0.00060 2	-0.36459	-21.3894
MESO (n=87)	T cell CD8+_MCPCOUNTER	0.26521 9	-0.1222	-0.51208
MESO (n=87)	T cell CD8+_QUANTISEQ	0.10386 6	-0.17763	-1.20243
MESO (n=87)	T cell CD8+_TIMER	0.07397 1	-0.19483	-1.58749
MESO (n=87)	T cell CD8+_XCELL	0.05799 8	-0.20645	-1.87299
OV (n=303)	Cancer associated fibroblast_EPIC	2.04E-12	0.42632 6	0.45585 2
OV (n=303)	Cancer associated fibroblast_MCPCOUNTER	3.19E-13	0.44017 1	0.46951 6
OV (n=303)	Cancer associated fibroblast_TIDE	1.52E-24	0.58796 8	0.60304 4

OV (n=303)	Cancer associated fibroblast_XCELL	1.37E-05	0.27171 1	0.31711 6
OV (n=303)	NK cell activated_CIBERSORT	0.29600 9	-0.06649	-0.18457
OV (n=303)	NK cell activated_CIBERSORT-ABS	0.19212 5	-0.08293	-0.25341
OV (n=303)	NK cell resting_CIBERSORT	0.76833	-0.01876	-0.03921
OV (n=303)	NK cell resting_CIBERSORT-ABS	0.75410 7	-0.01995	-0.0424
OV (n=303)	NK cell_EPIC	0.70924 6	-0.02375	-0.05109
OV (n=303)	NK cell_MCPCOUNTER	0.11855 5	-0.09917	-0.34358
OV (n=303)	NK cell_QUANTISEQ	0.14002 4	0.09378 4	0.13686 6
OV (n=303)	NK cell_XCELL	0.01588 7	-0.15269	-0.83981
OV (n=303)	T cell CD8+ central memory_XCELL	6.85E-06	-0.28074	-5.88209
OV (n=303)	T cell CD8+ effector memory_XCELL	0.16340 4	-0.08859	-0.28558
OV (n=303)	T cell CD8+ naive_XCELL	0.08789 1	0.10838	0.15259 8
OV (n=303)	T cell CD8+_CIBERSORT	0.03889 9	-0.13097	-0.59106
OV (n=303)	T cell CD8+_CIBERSORT-ABS	0.09653 7	-0.10555	-0.38225
OV (n=303)	T cell CD8+_EPIC	0.22946 7	-0.07643	-0.22271
OV (n=303)	T cell CD8+_MCPCOUNTER	0.67572 2	-0.02664	-0.05802
OV (n=303)	T cell CD8+_QUANTISEQ	0.00535 1	-0.176	-1.17335
OV (n=303)	T cell CD8+_TIMER	0.4654	-0.04647	-0.11082
OV (n=303)	T cell CD8+_XCELL	0.17279 2	-0.08667	-0.27239
PAAD (n=179)	Cancer associated fibroblast_EPIC	6.83E-27	0.70386 8	0.71114 1
PAAD (n=179)	Cancer associated fibroblast_MCPCOUNTER	1.95E-23	0.66778 8	0.67858 4
PAAD (n=179)	Cancer associated fibroblast_TIDE	8.10E-26	0.69320 7	0.70198 2
PAAD (n=179)	Cancer associated fibroblast_XCELL	2.59E-06	0.35056 6	0.39050 3
PAAD (n=179)	NK cell activated_CIBERSORT	0.79387 1	-0.02013	-0.04289
PAAD (n=179)	NK cell activated_CIBERSORT-ABS	0.03423 1	0.16203 4	0.21200 9

PAAD (n=179)	NK cell resting_CIBERSORT	0.06811 9	-0.13984	-0.69525
PAAD (n=179)	NK cell resting_CIBERSORT-ABS	0.10169 6	-0.12559	-0.53648
PAAD (n=179)	NK cell_EPIC	1.05E-09	0.44525 7	0.47322
PAAD (n=179)	NK cell_MCPCOUNTER	0.01092 9	0.19418 6	0.24238 8
PAAD (n=179)	NK cell_QUANTISEQ	0.02649 4	0.16969 5	0.22025 3
PAAD (n=179)	NK cell_XCELL	0.39896 1	-0.06491	-0.17795
PAAD (n=179)	T cell CD8+ central memory_XCELL	0.75185 8	0.02435 5	0.04338 5
PAAD (n=179)	T cell CD8+ effector memory_XCELL	0.72038 1	0.02757	0.04852 3
PAAD (n=179)	T cell CD8+ naive_XCELL	0.32636 1	0.07550 2	0.11475 2
PAAD (n=179)	T cell CD8+_CIBERSORT	0.00667 6	-0.20671	-1.89482
PAAD (n=179)	T cell CD8+_CIBERSORT-ABS	0.52028 6	0.04949 7	0.08156 8
PAAD (n=179)	T cell CD8+_EPIC	0.00287 7	-0.22662	-2.58997
PAAD (n=179)	T cell CD8+_MCPCOUNTER	0.00929 1	0.19838 8	0.24638 6
PAAD (n=179)	T cell CD8+_QUANTISEQ	0.05984 5	0.14421 9	0.19376
PAAD (n=179)	T cell CD8+_TIMER	1.04E-07	0.39320 3	0.42718 3
PAAD (n=179)	T cell CD8+_XCELL	0.81229 5	0.01829 2	0.03322 2
PCPG (n=181)	Cancer associated fibroblast_EPIC	0.00405 7	0.22127 4	0.26637 7
PCPG (n=181)	Cancer associated fibroblast_MCPCOUNTER	0.00358 3	0.22419 9	0.26916 1
PCPG (n=181)	Cancer associated fibroblast_TIDE	1.77E-06	0.35998 5	0.39888 9
PCPG (n=181)	Cancer associated fibroblast_XCELL	0.80830 5	-0.01891	-0.03972
PCPG (n=181)	NK cell activated_CIBERSORT	0.19679 2	-0.10038	-0.35194
PCPG (n=181)	NK cell activated_CIBERSORT-ABS	0.98332 2	-0.00163	-0.00319
PCPG (n=181)	NK cell resting_CIBERSORT	0.77415 7	0.02236 9	0.04009 2

PCPG (n=181)	NK cell resting_CIBERSORT-ABS	0.70843 1	0.02915 1	0.05059 7
PCPG (n=181)	NK cell_EPIC	0.01203 2	-0.19393	-1.56567
PCPG (n=181)	NK cell_MCPCOUNTER	0.41777	-0.06311	-0.17089
PCPG (n=181)	NK cell_QUANTISEQ	0.38198 8	0.06808 3	0.10622 9
PCPG (n=181)	NK cell_XCELL	0.15657 2	0.11012	0.15480 2
PCPG (n=181)	T cell CD8+ central memory_XCELL	0.90473 2	0.00933 2	0.01750 9
PCPG (n=181)	T cell CD8+ effector memory_XCELL	0.57951 1	0.04318 2	0.07238 1
PCPG (n=181)	T cell CD8+ naive_XCELL	0.09663 1	-0.12899	-0.57331
PCPG (n=181)	T cell CD8+_CIBERSORT	0.00038 5	-0.27156	-5.19505
PCPG (n=181)	T cell CD8+_CIBERSORT-ABS	0.11573 4	-0.12218	-0.50956
PCPG (n=181)	T cell CD8+_EPIC	0.00092 2	-0.25409	-4.29992
PCPG (n=181)	T cell CD8+_MCPCOUNTER	0.53467 1	-0.04838	-0.11665
PCPG (n=181)	T cell CD8+_QUANTISEQ	0.00843	-0.20324	-1.75348
PCPG (n=181)	T cell CD8+_TIMER	0.00016 7	0.28727 3	0.33263 2
PCPG (n=181)	T cell CD8+_XCELL	0.09752 7	-0.12865	-0.56892
PRAD (n=498)	Cancer associated fibroblast_EPIC	1.24E-28	0.50765 5	0.53056 6
PRAD (n=498)	Cancer associated fibroblast_MCPCOUNTER	1.81E-20	0.43330 9	0.46275 8
PRAD (n=498)	Cancer associated fibroblast_TIDE	7.96E-25	0.47522 6	0.50203 9
PRAD (n=498)	Cancer associated fibroblast_XCELL	1.86E-10	0.30582 8	0.34906 4
PRAD (n=498)	NK cell activated_CIBERSORT	0.18479 7	-0.06515	-0.17915
PRAD (n=498)	NK cell activated_CIBERSORT-ABS	8.50E-11	0.31127	0.35481 6
PRAD (n=498)	NK cell resting_CIBERSORT	0.19526 6	-0.06363	-0.17282
PRAD (n=498)	NK cell resting_CIBERSORT-ABS	0.23565 9	-0.05827	-0.15216
PRAD (n=498)	NK cell_EPIC	0.00117 3	0.15859	0.20923 4

PRAD (n=498)	NK cell_MCPCOUNTER	1.63E-13	0.35113 3	0.39064 1
PRAD (n=498)	NK cell_QUANTISEQ	0.00186 5	-0.1521	-0.8262
PRAD (n=498)	NK cell_XCELL	0.84884 4	0.00937 3	0.01754 9
PRAD (n=498)	T cell CD8+ central memory_XCELL	0.11724 9	0.07691 8	0.11650 2
PRAD (n=498)	T cell CD8+ effector memory_XCELL	0.46447 9	-0.03596	-0.0822
PRAD (n=498)	T cell CD8+ naive_XCELL	0.19059 9	-0.0643	-0.17572
PRAD (n=498)	T cell CD8+_CIBERSORT	0.26635	-0.05462	-0.13892
PRAD (n=498)	T cell CD8+_CIBERSORT-ABS	1.95E-15	0.37624 2	0.41232 1
PRAD (n=498)	T cell CD8+_EPIC	0.03438 8	0.10375 3	0.14773 9
PRAD (n=498)	T cell CD8+_MCPCOUNTER	0.00012 4	0.18709 8	0.23520 9
PRAD (n=498)	T cell CD8+_QUANTISEQ	2.59E-09	0.28672 3	0.33243 3
PRAD (n=498)	T cell CD8+_TIMER	0.56027 7	0.02863 6	0.05009 9
PRAD (n=498)	T cell CD8+_XCELL	0.16158 4	0.06875 5	0.10708 7
READ (n=166)	Cancer associated fibroblast_EPIC	2.78E-15	0.71406 1	0.72061 2
READ (n=166)	Cancer associated fibroblast_MCPCOUNTER	9.53E-13	0.66424 2	0.67576 1
READ (n=166)	Cancer associated fibroblast_TIDE	2.19E-14	0.58976 5	0.60418 3
READ (n=166)	Cancer associated fibroblast_XCELL	0.00029 3	0.37304 7	0.40932 8
READ (n=166)	NK cell activated_CIBERSORT	0.43463 8	-0.08338	-0.25565
READ (n=166)	NK cell activated_CIBERSORT-ABS	0.49970 6	0.07206 1	0.11105 7
READ (n=166)	NK cell resting_CIBERSORT	0.24357 4	-0.12418	-0.52537
READ (n=166)	NK cell resting_CIBERSORT-ABS	0.63577 1	-0.0506	-0.12438
READ (n=166)	NK cell_EPIC	6.22E-05	0.40917 4	0.44072 6
READ (n=166)	NK cell_MCPCOUNTER	0.49864 7	0.07223 8	0.11113 6
READ (n=166)	NK cell_QUANTISEQ	0.90583 8	-0.01265	-0.02594

READ (n=166)	NK cell_XCELL	0.53172	-0.06678	-0.18597
READ (n=166)	T cell CD8+ central memory_XCELL	0.04425 1	0.21259 3	0.25840 1
READ (n=166)	T cell CD8+ effector memory_XCELL	0.70765 6	-0.04007	-0.09305
READ (n=166)	T cell CD8+ naive_XCELL	0.42018 7	-0.08601	-0.26937
READ (n=166)	T cell CD8+_CIBERSORT	0.15285 2	-0.15193	-0.82025
READ (n=166)	T cell CD8+_CIBERSORT-ABS	0.16896 5	0.14625 8	0.19595 3
READ (n=166)	T cell CD8+_EPIC	0.10718 3	-0.17095	-1.10615
READ (n=166)	T cell CD8+_MCPCOUNTER	0.08441 1	0.18291 8	0.23201 2
READ (n=166)	T cell CD8+_QUANTISEQ	0.04559 3	0.21129 6	0.25717 9
READ (n=166)	T cell CD8+_TIMER	0.00208 9	0.32026 6	0.36412 7
READ (n=166)	T cell CD8+_XCELL	0.16036 6	0.14923 4	0.19897 9
SARC (n=260)	Cancer associated fibroblast_EPIC	7.47E-16	0.48577 9	0.51073 5
SARC (n=260)	Cancer associated fibroblast_MCPCOUNTER	2.16E-09	0.37127 3	0.40789
SARC (n=260)	Cancer associated fibroblast_TIDE	5.91E-15	0.47221 2	0.49945 5
SARC (n=260)	Cancer associated fibroblast_XCELL	0.66142 7	-0.02818	-0.06199
SARC (n=260)	NK cell activated_CIBERSORT	0.00020 5	-0.23552	-3.14032
SARC (n=260)	NK cell activated_CIBERSORT-ABS	0.00814 5	-0.16904	-1.07019
SARC (n=260)	NK cell resting_CIBERSORT	0.19376 8	0.08347 6	0.12387 7
SARC (n=260)	NK cell resting_CIBERSORT-ABS	0.11542 2	0.10104 4	0.14505 5
SARC (n=260)	NK cell_EPIC	0.00492 8	0.17945 7	0.22987 2
SARC (n=260)	NK cell_MCPCOUNTER	0.02095 8	-0.14775	-0.78324
SARC (n=260)	NK cell_QUANTISEQ	0.00157 2	-0.20133	-1.72007
SARC (n=260)	NK cell_XCELL	0.37692 7	0.05681 1	0.09223 9
SARC (n=260)	T cell CD8+ central memory_XCELL	0.15186 3	-0.09201	-0.30327

SARC (n=260)	T cell CD8+ effector memory_XCELL	0.04772 5	-0.12688	-0.55004
SARC (n=260)	T cell CD8+ naive_XCELL	0.24252 6	0.07509 8	0.11472 4
SARC (n=260)	T cell CD8+_CIBERSORT	0.00277 8	-0.19072	-1.47221
SARC (n=260)	T cell CD8+_CIBERSORT-ABS	0.02606	-0.14247	-0.7164
SARC (n=260)	T cell CD8+_EPIC	9.72E-10	-0.37868	-25.6337
SARC (n=260)	T cell CD8+_MCPCOUNTER	0.09025 4	-0.10869	-0.40528
SARC (n=260)	T cell CD8+_QUANTISEQ	0.03371	-0.13601	-0.64349
SARC (n=260)	T cell CD8+_TIMER	1.69E-06	0.30088 9	0.34566 8
SARC (n=260)	T cell CD8+_XCELL	0.44834 1	-0.04876	-0.11788
SKCM (n=471)	Cancer associated fibroblast_EPIC	4.77E-11	0.30135 3	0.34575 1
SKCM (n=471)	Cancer associated fibroblast_MCPCOUNTER	7.89E-16	0.36477 6	0.40225 9
SKCM (n=471)	Cancer associated fibroblast_TIDE	6.47E-34	0.52625 5	0.54805 2
SKCM (n=471)	Cancer associated fibroblast_XCELL	0.84122	-0.0094	-0.01884
SKCM (n=471)	NK cell activated_CIBERSORT	1.01E-05	-0.20492	-1.82153
SKCM (n=471)	NK cell activated_CIBERSORT-ABS	2.16E-06	-0.21952	-2.27271
SKCM (n=471)	NK cell resting_CIBERSORT	0.00901 6	0.12203 6	0.16859
SKCM (n=471)	NK cell resting_CIBERSORT-ABS	0.00546 4	0.12977 1	0.17705 2
SKCM (n=471)	NK cell_EPIC	0.24021 7	-0.05505	-0.14082
SKCM (n=471)	NK cell_MCPCOUNTER	0.02617	-0.10402	-0.3706
SKCM (n=471)	NK cell_QUANTISEQ	3.26E-11	0.30381 5	0.34727
SKCM (n=471)	NK cell_XCELL	0.07414 1	-0.08362	-0.25818
SKCM (n=471)	T cell CD8+ central memory_XCELL	2.73E-13	-0.33291	-13.9506
SKCM (n=471)	T cell CD8+ effector memory_XCELL	0.00029 7	-0.16848	-1.059
SKCM (n=471)	T cell CD8+ naive_XCELL	5.21E-06	-0.2113	-2.02112
SKCM (n=471)	T cell CD8+_CIBERSORT	5.53E-14	-0.34199	-17.7031
SKCM (n=471)	T cell CD8+_CIBERSORT-ABS	3.59E-10	-0.28789	-7.03722
SKCM (n=471)	T cell CD8+_EPIC	0.05241	-0.0908	-0.29815
SKCM (n=471)	T cell CD8+_MCPCOUNTER	1.86E-10	-0.29235	-7.56681
SKCM (n=471)	T cell CD8+_QUANTISEQ	2.04E-11	-0.30679	-9.30951
SKCM (n=471)	T cell CD8+_TIMER	0.44570 8	-0.03576	-0.0811

SKCM (n=471)	T cell CD8+_XCELL	1.02E-10	-0.29633	-8.14918
SKCM-Primary (n=103)	Cancer associated fibroblast_EPIC	0.06968 1	0.18035 7	0.23002 1
SKCM-Primary (n=103)	Cancer associated fibroblast_MCPCOUNTER	0.00464	0.27818 6	0.32381 4
SKCM-Primary (n=103)	Cancer associated fibroblast_TIDE	0.00222 8	0.29949 6	0.34459 3
SKCM-Primary (n=103)	Cancer associated fibroblast_XCELL	0.63779 3	-0.04717	-0.1128
SKCM-Primary (n=103)	NK cell activated_CIBERSORT	0.03959 4	-0.20413	-1.79637
SKCM-Primary (n=103)	NK cell activated_CIBERSORT-ABS	0.49823 4	-0.06782	-0.19128
SKCM-Primary (n=103)	NK cell resting_CIBERSORT	0.80477 2	0.02477 6	0.04395 7
SKCM-Primary (n=103)	NK cell resting_CIBERSORT-ABS	0.63204 9	0.04797 7	0.07936
SKCM-Primary (n=103)	NK cell_EPIC	0.11683 8	-0.15624	-0.88137
SKCM-Primary (n=103)	NK cell_MCPCOUNTER	0.26179 3	-0.11214	-0.42721
SKCM-Primary (n=103)	NK cell_QUANTISEQ	0.11037 6	0.15903	0.2095
SKCM-Primary (n=103)	NK cell_XCELL	0.14372 5	-0.14579	-0.75025
SKCM-Primary (n=103)	T cell CD8+ central memory_XCELL	0.06233 4	-0.18524	-1.33614
SKCM-Primary (n=103)	T cell CD8+ effector memory_XCELL	0.94849 6	0.00647 6	0.01228 1
SKCM-Primary (n=103)	T cell CD8+ naive_XCELL	0.03743 9	-0.20636	-1.85307
SKCM-Primary (n=103)	T cell CD8+_CIBERSORT	0.00022 5	-0.35749	-19.6621
SKCM-Primary (n=103)	T cell CD8+_CIBERSORT-ABS	0.05775 4	-0.18852	-1.39411
SKCM-Primary (n=103)	T cell CD8+_EPIC	0.00021 5	0.35852 8	0.39790 8
SKCM-Primary (n=103)	T cell CD8+_MCPCOUNTER	0.01707 8	-0.23572	-3.1913
SKCM-Primary (n=103)	T cell CD8+_QUANTISEQ	0.00059 4	-0.33432	-14.71
SKCM-Primary (n=103)	T cell CD8+_TIMER	0.61434 2	-0.05048	-0.12375
SKCM-Primary (n=103)	T cell CD8+_XCELL	0.82705 9	-0.0219	-0.04689
SKCM-Metastasis (n=368)	Cancer associated fibroblast_EPIC	1.76E-11	0.34742 5	0.38897 5

SKCM-Metastasis (n=368)	Cancer associated fibroblast_MCPCOUNTER	1.58E-14	0.39307 3	0.42718 3
SKCM-Metastasis (n=368)	Cancer associated fibroblast_TIDE	3.72E-32	0.57205 5	0.58809 4
SKCM-Metastasis (n=368)	Cancer associated fibroblast_XCELL	0.35927 4	0.04886 8	0.08068 3
SKCM-Metastasis (n=368)	NK cell activated_CIBERSORT	1.21E-05	-0.23028	-2.77593
SKCM-Metastasis (n=368)	NK cell activated_CIBERSORT-ABS	1.83E-05	-0.2256	-2.51302
SKCM-Metastasis (n=368)	NK cell resting_CIBERSORT	0.01254 1	0.13257 2	0.18003 7
SKCM-Metastasis (n=368)	NK cell resting_CIBERSORT-ABS	0.00809 1	0.14055	0.18999 1
SKCM-Metastasis (n=368)	NK cell_EPIC	0.39367 1	-0.04547	-0.10786
SKCM-Metastasis (n=368)	NK cell_MCPCOUNTER	0.34804 1	-0.05002	-0.12193
SKCM-Metastasis (n=368)	NK cell_QUANTISEQ	3.81E-11	0.34194 5	0.38430 6
SKCM-Metastasis (n=368)	NK cell_XCELL	0.39487 6	-0.04536	-0.1073
SKCM-Metastasis (n=368)	T cell CD8+ central memory_XCELL	6.13E-10	-0.32122	-11.778
SKCM-Metastasis (n=368)	T cell CD8+ effector memory_XCELL	0.00021 6	-0.19542	-1.60721
SKCM-Metastasis (n=368)	T cell CD8+ naive_XCELL	9.89E-06	-0.2325	-2.9228
SKCM-Metastasis (n=368)	T cell CD8+_CIBERSORT	8.75E-11	-0.33591	-15.5578
SKCM-Metastasis (n=368)	T cell CD8+_CIBERSORT-ABS	3.33E-07	-0.26727	-5.00416
SKCM-Metastasis (n=368)	T cell CD8+_EPIC	0.00028 1	-0.19192	-1.4946
SKCM-Metastasis (n=368)	T cell CD8+_MCPCOUNTER	9.23E-07	-0.25733	-4.62142
SKCM-Metastasis (n=368)	T cell CD8+_QUANTISEQ	2.27E-06	-0.24819	-3.90014
SKCM-Metastasis (n=368)	T cell CD8+_TIMER	0.98099 6	0.00127 1	0.00246 8
SKCM-Metastasis (n=368)	T cell CD8+_XCELL	3.39E-10	-0.32576	-13.0305
STAD (n=415)	Cancer associated fibroblast_EPIC	1.78E-30	0.54320 9	0.56370 8
STAD (n=415)	Cancer associated fibroblast_MCPCOUNTER	3.92E-31	0.54833 9	0.56702 5

STAD (n=415)	Cancer associated fibroblast_TIDE	9.36E-42	0.62078 9	0.63301 8
STAD (n=415)	Cancer associated fibroblast_XCELL	1.67E-15	0.39373 3	0.42723 2
STAD (n=415)	NK cell activated_CIBERSORT	0.70312	-0.01964	-0.04154
STAD (n=415)	NK cell activated_CIBERSORT-ABS	0.12564 2	0.07880 7	0.11814 3
STAD (n=415)	NK cell resting_CIBERSORT	0.74663 5	-0.01665	-0.03456
STAD (n=415)	NK cell resting_CIBERSORT-ABS	0.87979 6	-0.00779	-0.01559
STAD (n=415)	NK cell_EPIC	0.00038 6	0.18141 5	0.23096 1
STAD (n=415)	NK cell_MCPCOUNTER	0.06382 7	0.0953	0.13839
STAD (n=415)	NK cell_QUANTISEQ	0.53837 1	-0.0317	-0.07045
STAD (n=415)	NK cell_XCELL	0.60457	-0.02668	-0.05827
STAD (n=415)	T cell CD8+ central memory_XCELL	0.49024 5	-0.03554	-0.08041
STAD (n=415)	T cell CD8+ effector memory_XCELL	0.0632	-0.09553	-0.32085
STAD (n=415)	T cell CD8+ naive_XCELL	0.23550 4	-0.06108	-0.16239
STAD (n=415)	T cell CD8+_CIBERSORT	0.02540 2	-0.11482	-0.45106
STAD (n=415)	T cell CD8+_CIBERSORT-ABS	0.36278 8	0.04687 6	0.07768 5
STAD (n=415)	T cell CD8+_EPIC	0.06178 9	-0.09604	-0.32381
STAD (n=415)	T cell CD8+_MCPCOUNTER	0.03537 7	0.10811 6	0.15259 8
STAD (n=415)	T cell CD8+_QUANTISEQ	0.33481 9	0.04967 4	0.08170 7
STAD (n=415)	T cell CD8+_TIMER	2.37E-06	0.23965 7	0.28499 8
STAD (n=415)	T cell CD8+_XCELL	0.64089	-0.02404	-0.05184
TGCT (n=150)	Cancer associated fibroblast_EPIC	2.30E-33	0.79557	0.79738 2
TGCT (n=150)	Cancer associated fibroblast_MCPCOUNTER	7.70E-33	0.79170 3	0.79531 8
TGCT (n=150)	Cancer associated fibroblast_TIDE	7.70E-38	0.82547 6	0.82547 6
TGCT (n=150)	Cancer associated fibroblast_XCELL	3.93E-13	0.55268 2	0.57084 6
TGCT (n=150)	NK cell activated_CIBERSORT	0.94427 4	-0.00581	-0.01155

TGCT (n=150)	NK cell activated_CIBERSORT-ABS	0.02401 2	0.18610 9	0.23442 5
TGCT (n=150)	NK cell resting_CIBERSORT	0.70433	0.03156 1	0.05424
TGCT (n=150)	NK cell resting_CIBERSORT-ABS	0.65109 8	0.03760 8	0.06364 4
TGCT (n=150)	NK cell_EPIC	0.11404 1	-0.1309	-0.5877
TGCT (n=150)	NK cell_MCPCOUNTER	3.96E-06	-0.37009	-23.2628
TGCT (n=150)	NK cell_QUANTISEQ	1.24E-13	0.56236 8	0.57949
TGCT (n=150)	NK cell_XCELL	9.66E-05	-0.31599	-11.1229
TGCT (n=150)	T cell CD8+ central memory_XCELL	2.15E-08	-0.44164	-38.8642
TGCT (n=150)	T cell CD8+ effector memory_XCELL	2.61E-07	-0.40947	-32.7574
TGCT (n=150)	T cell CD8+ naive_XCELL	0.12523 9	-0.12702	-0.55337
TGCT (n=150)	T cell CD8+_CIBERSORT	0.26415 3	-0.09269	-0.30665
TGCT (n=150)	T cell CD8+_CIBERSORT-ABS	0.34996 7	0.07763 5	0.11698 5
TGCT (n=150)	T cell CD8+_EPIC	0.00013 3	-0.31004	-10.1051
TGCT (n=150)	T cell CD8+_MCPCOUNTER	0.52939 8	-0.05228	-0.13034
TGCT (n=150)	T cell CD8+_QUANTISEQ	0.35016 1	0.07760 4	0.11698 5
TGCT (n=150)	T cell CD8+_TIMER	3.34E-07	-0.40609	-29.7799
TGCT (n=150)	T cell CD8+_XCELL	3.89E-10	-0.48724	-53.5967
THCA (n=509)	Cancer associated fibroblast_EPIC	1.89E-16	0.36081 4	0.39888 9
THCA (n=509)	Cancer associated fibroblast_MCPCOUNTER	4.69E-32	0.49876 3	0.52313 7
THCA (n=509)	Cancer associated fibroblast_TIDE	4.57E-30	0.48431 8	0.50980 9
THCA (n=509)	Cancer associated fibroblast_XCELL	6.13E-09	0.25929 7	0.30464 8
THCA (n=509)	NK cell activated_CIBERSORT	0.10108 1	0.07431 1	0.11400 4
THCA (n=509)	NK cell activated_CIBERSORT-ABS	8.39E-07	0.22080 3	0.26617 4
THCA (n=509)	NK cell resting_CIBERSORT	0.39904 6	-0.03826	-0.08814
THCA (n=509)	NK cell resting_CIBERSORT-ABS	0.32456 5	-0.04469	-0.10543
THCA (n=509)	NK cell_EPIC	0.21422 4	-0.05632	-0.14535

THCA (n=509)	NK cell_MCPCOUNTER	0.00033 4	0.16172 2	0.21200 9
THCA (n=509)	NK cell_QUANTISEQ	0.16066 1	0.06360 3	0.10066 6
THCA (n=509)	NK cell_XCELL	0.82379 5	-0.01011	-0.02035
THCA (n=509)	T cell CD8+ central memory_XCELL	0.20335 8	0.05768 3	0.09348 2
THCA (n=509)	T cell CD8+ effector memory_XCELL	0.42342 4	0.03631 8	0.06177 2
THCA (n=509)	T cell CD8+ naive_XCELL	0.05272 9	-0.08775	-0.27776
THCA (n=509)	T cell CD8+_CIBERSORT	0.01142 1	-0.11442	-0.44164
THCA (n=509)	T cell CD8+_CIBERSORT-ABS	0.13708 5	0.06739 8	0.10572 2
THCA (n=509)	T cell CD8+_EPIC	0.17116 7	0.06204 7	0.09873 7
THCA (n=509)	T cell CD8+_MCPCOUNTER	0.11918 9	0.07062 9	0.10942 5
THCA (n=509)	T cell CD8+_QUANTISEQ	0.86872 7	-0.0075	-0.01497
THCA (n=509)	T cell CD8+_TIMER	0.13665 1	-0.06747	-0.18909
THCA (n=509)	T cell CD8+_XCELL	0.03390 5	0.09604 6	0.13901 4
THYM (n=120)	Cancer associated fibroblast_EPIC	1.85E-21	0.74333	0.74843 3
THYM (n=120)	Cancer associated fibroblast_MCPCOUNTER	9.96E-11	0.55720 4	0.57484 2
THYM (n=120)	Cancer associated fibroblast_TIDE	4.15E-27	0.80256 1	0.80347 4
THYM (n=120)	Cancer associated fibroblast_XCELL	2.27E-09	0.52157 6	0.54382 3
THYM (n=120)	NK cell activated_CIBERSORT	3.93E-06	0.41530 1	0.44623 3
THYM (n=120)	NK cell activated_CIBERSORT-ABS	5.17E-08	0.48132 3	0.50787 1
THYM (n=120)	NK cell resting_CIBERSORT	0.01140 5	-0.23518	-3.04348
THYM (n=120)	NK cell resting_CIBERSORT-ABS	0.01431 5	-0.22787	-2.63851
THYM (n=120)	NK cell_EPIC	5.66E-05	0.36635 5	0.40349 5
THYM (n=120)	NK cell_MCPCOUNTER	7.02E-07	0.44324 5	0.47165 1

THYM (n=120)	NK cell_QUANTISEQ	0.00583 8	0.25557 4	0.30229 2
THYM (n=120)	NK cell_XCELL	0.23763 6	0.11099 3	0.15553 1
THYM (n=120)	T cell CD8+ central memory_XCELL	0.17604 6	-0.12705	-0.55622
THYM (n=120)	T cell CD8+ effector memory_XCELL	0.05283	-0.18104	-1.26444
THYM (n=120)	T cell CD8+ naive_XCELL	1.25E-10	-0.55475	-244.09
THYM (n=120)	T cell CD8+_CIBERSORT	0.26843 1	-0.10406	-0.37223
THYM (n=120)	T cell CD8+_CIBERSORT-ABS	0.00428 1	0.26451 5	0.30999 4
THYM (n=120)	T cell CD8+_EPIC	5.35E-08	-0.48085	-47.016
THYM (n=120)	T cell CD8+_MCPCOUNTER	2.07E-09	-0.52269	-91.9942
THYM (n=120)	T cell CD8+_QUANTISEQ	1.83E-08	-0.49531	-62.267
THYM (n=120)	T cell CD8+_TIMER	9.94E-12	-0.58101	-511.291
THYM (n=120)	T cell CD8+_XCELL	1.56E-09	-0.52611	-115.743
UCEC (n=545)	Cancer associated fibroblast_EPIC	0.03984 8	0.21955 6	0.26503 3
UCEC (n=545)	Cancer associated fibroblast_MCPCOUNTER	0.04081 5	0.21852 2	0.26436 7
UCEC (n=545)	Cancer associated fibroblast_TIDE	1.62E-21	0.51800 6	0.54074 2
UCEC (n=545)	Cancer associated fibroblast_XCELL	0.67850 1	0.04480 5	0.07467 6
UCEC (n=545)	NK cell activated_CIBERSORT	0.19894 6	-0.13825	-0.66847
UCEC (n=545)	NK cell activated_CIBERSORT-ABS	0.86554 6	0.01831	0.03322 2
UCEC (n=545)	NK cell resting_CIBERSORT	0.57298 9	0.06090 1	0.09711 5
UCEC (n=545)	NK cell resting_CIBERSORT-ABS	0.60894 1	0.05528 4	0.08992 6
UCEC (n=545)	NK cell_EPIC	0.06494 5	-0.19763	-1.64067
UCEC (n=545)	NK cell_MCPCOUNTER	0.66990 7	-0.04608	-0.10959
UCEC (n=545)	NK cell_QUANTISEQ	0.14486 8	0.15669 1	0.20735 1
UCEC (n=545)	NK cell_XCELL	0.03042	-0.23092	-2.82234
UCEC (n=545)	T cell CD8+ central memory_XCELL	0.01347 7	-0.26252	-4.81279
UCEC (n=545)	T cell CD8+ effector memory_XCELL	0.35753 1	-0.09926	-0.34524
UCEC (n=545)	T cell CD8+ naive_XCELL	0.99279 4	-0.00098	-0.00191

UCEC (n=545)	T cell CD8+_CIBERSORT	0.02171 2	-0.24446	-3.64614
UCEC (n=545)	T cell CD8+_CIBERSORT-ABS	0.38586 6	-0.09357	-0.31073
UCEC (n=545)	T cell CD8+_EPIC	0.52820 2	-0.06813	-0.19279
UCEC (n=545)	T cell CD8+_MCPCOUNTER	0.36183 8	-0.09838	-0.33685
UCEC (n=545)	T cell CD8+_QUANTISEQ	0.27330 1	-0.11806	-0.4701
UCEC (n=545)	T cell CD8+_TIMER	0.03688	-0.22286	-2.3629
UCEC (n=545)	T cell CD8+_XCELL	0.04247 1	-0.2168	-2.16799
UCS (n=57)	Cancer associated fibroblast_EPIC	0.00387 9	0.39012 6	0.42488 9
UCS (n=57)	Cancer associated fibroblast_MCPCOUNTER	0.00280 9	0.40251 1	0.43465 1
UCS (n=57)	Cancer associated fibroblast_TIDE	0.00014 8	0.49793 9	0.52289 6
UCS (n=57)	Cancer associated fibroblast_XCELL	0.46610 3	0.10228 9	0.14612 7
UCS (n=57)	NK cell activated_CIBERSORT	0.04114 3	-0.28151	-6.04226
UCS (n=57)	NK cell activated_CIBERSORT-ABS	0.52191 7	-0.08993	-0.2942
UCS (n=57)	NK cell resting_CIBERSORT	0.81382 5	-0.03313	-0.07399
UCS (n=57)	NK cell resting_CIBERSORT-ABS	0.80883 6	-0.03403	-0.0764
UCS (n=57)	NK cell_EPIC	0.35304 4	0.13012 6	0.17726 2
UCS (n=57)	NK cell_MCPCOUNTER	0.94404 9	0.00987 5	0.01841 2
UCS (n=57)	NK cell_QUANTISEQ	0.91006 6	-0.01589	-0.03291
UCS (n=57)	NK cell_XCELL	0.31851 7	-0.13968	-0.68668
UCS (n=57)	T cell CD8+ central memory_XCELL	0.25340 3	-0.15968	-0.94946
UCS (n=57)	T cell CD8+ effector memory_XCELL	0.93458 2	-0.01155	-0.02353
UCS (n=57)	T cell CD8+ naive_XCELL	0.12015 5	0.21609 7	0.26193 6
UCS (n=57)	T cell CD8+_CIBERSORT	0.43836 6	-0.10872	-0.40714
UCS (n=57)	T cell CD8+_CIBERSORT-ABS	0.85763 8	-0.02524	-0.05484

UCS (n=57)	T cell CD8+_EPIC	0.09974 9	-0.22855	-2.68167
UCS (n=57)	T cell CD8+_MCPCOUNTER	0.57607 5	-0.07856	-0.23198
UCS (n=57)	T cell CD8+_QUANTISEQ	0.54450 8	0.08512	0.12589 2
UCS (n=57)	T cell CD8+_TIMER	0.59667 8	0.07436 1	0.11400 4
UCS (n=57)	T cell CD8+_XCELL	0.33561 6	-0.13487	-0.62466
UVM (n=80)	Cancer associated fibroblast_EPIC	0.73432 7	0.03930 3	0.06638 6
UVM (n=80)	Cancer associated fibroblast_MCPCOUNTER	0.91371 4	0.01255 3	0.02311
UVM (n=80)	Cancer associated fibroblast_TIDE	0.06593 5	0.21064 6	0.25709 9
UVM (n=80)	Cancer associated fibroblast_XCELL	0.31880 5	-0.11511	-0.45631
UVM (n=80)	NK cell activated_CIBERSORT	0.94969 4	0.00730 9	0.01380 3
UVM (n=80)	NK cell activated_CIBERSORT-ABS	0.70453 8	0.04391 1	0.07346 4
UVM (n=80)	NK cell resting_CIBERSORT	0.28260 2	0.12400 5	0.17077 3
UVM (n=80)	NK cell resting_CIBERSORT-ABS	0.14906 3	0.166	0.21673 6
UVM (n=80)	NK cell_EPIC	0.49313 8	0.07927 4	0.11844
UVM (n=80)	NK cell_MCPCOUNTER	0.31035 8	0.11712 7	0.16283
UVM (n=80)	NK cell_QUANTISEQ	0.20048 6	-0.1475	-0.77726
UVM (n=80)	NK cell_XCELL	0.51522	0.07528 4	0.11472 4
UVM (n=80)	T cell CD8+ central memory_XCELL	0.11747 6	0.17988 4	0.23000 3
UVM (n=80)	T cell CD8+ effector memory_XCELL	0.94518 9	0.00796 5	0.01500 9
UVM (n=80)	T cell CD8+ naive_XCELL	0.20423	0.14629 6	0.19595 3
UVM (n=80)	T cell CD8+_CIBERSORT	0.92470 2	0.01094 9	0.02024 3
UVM (n=80)	T cell CD8+_CIBERSORT-ABS	0.60551 9	0.05978 3	0.09617 8
UVM (n=80)	T cell CD8+_EPIC	0.7335	0.03943	0.06647 3

UVM (n=80)	T cell CD8+_MCPCOUNTER	0.25160 6	0.13223 9	0.17986 2
UVM (n=80)	T cell CD8+_QUANTISEQ	0.46853 1	0.08383 2	0.12419 6
UVM (n=80)	T cell CD8+_TIMER	0.65300 7	-0.05205	-0.12903
UVM (n=80)	T cell CD8+_XCELL	0.64888 2	-0.05271	-0.13254

Supplementary Table S2:

symbol	drug	cor	fdr	entrez
TMEM45A	(5Z)-7-Oxozeaenol	-0.0349	0.43173	55076
TMEM45A	17-AAG	-0.16897	2.86E-06	55076
TMEM45A	5-Fluorouracil	0.19542	2.04E-08	55076
TMEM45A	681640	-0.10407	0.056948	55076
TMEM45A	A-443654	0.036967	0.856681	55076
TMEM45A	A-770041	-0.03709	0.686758	55076
TMEM45A	AC220	0.032814	0.522259	55076
TMEM45A	AG-014699	-0.17317	9.67E-06	55076
TMEM45A	AICAR	0.155758	3.61E-05	55076
TMEM45A	AKT inhibitor VIII	-0.14368	0.000415	55076
TMEM45A	AMG-706	-0.10778	0.027866	55076
TMEM45A	AP-24534	0.06196	0.132315	55076
TMEM45A	AR-42	0.205344	2.6E-09	55076
TMEM45A	AS601245	-0.05994	0.245559	55076
TMEM45A	AS605240	0.194146	1.5E-07	55076
TMEM45A	AT-7519	0.188014	4.92E-08	55076
TMEM45A	ATRA	0.09156	0.03741	55076
TMEM45A	AUY922	-0.04539	0.388116	55076
TMEM45A	AZ628	-0.04163	0.618087	55076
TMEM45A	AZD6482	-0.1457	0.000152	55076
TMEM45A	AZD7762	0.100891	0.009576	55076
TMEM45A	AZD8055	0.179484	1.5E-06	55076
TMEM45A	Afatinib	-0.04436	0.247897	55076
TMEM45A	Axitinib	0.010567	0.879711	55076
TMEM45A	BAY 61-3606	0.102337	0.009051	55076
TMEM45A	BEZ235	-0.10578	0.013824	55076
TMEM45A	BHG712	0.242008	1.36E-12	55076
TMEM45A	BI-2536	0.097058	0.296097	55076
TMEM45A	BIRB 0796	-0.13242	0.003623	55076
TMEM45A	BIX02189	0.156583	8.37E-06	55076
TMEM45A	BMS-509744	-0.15532	0.056313	55076
TMEM45A	BMS-536924	-0.01345	0.883851	55076
TMEM45A	BMS-708163	-0.14245	0.000189	55076
TMEM45A	BMS-754807	-0.0471	0.387281	55076
TMEM45A	BMS345541	0.190512	3.44E-08	55076
TMEM45A	BX-795	-0.00692	0.909475	55076

TMEM45A	BX-912	0.160329	3.53E-06	55076
TMEM45A	Belinostat	0.169276	2.01E-06	55076
TMEM45A	Bexarotene	-0.05977	0.352215	55076
TMEM45A	Bicalutamide	-0.14837	0.00021	55076
TMEM45A	Bleomycin	0.016361	0.809463	55076
TMEM45A	Bleomycin (50 uM)	-0.19682	1.55E-08	55076
TMEM45A	Bortezomib	-0.07248	0.351426	55076
TMEM45A	Bosutinib	0.041052	0.456531	55076
TMEM45A	Bryostatin 1	-0.14366	0.00132	55076
TMEM45A	CAL-101	0.141373	8.24E-05	55076
TMEM45A	CAY10603	0.177046	3.25E-07	55076
TMEM45A	CCT007093	-0.15674	7.31E-05	55076
TMEM45A	CCT018159	-0.0696	0.143687	55076
TMEM45A	CEP-701	0.098759	0.011623	55076
TMEM45A	CGP-082996	-0.08634	0.319313	55076
TMEM45A	CGP-60474	-0.032	0.745874	55076
TMEM45A	CH5424802	0.016555	0.820789	55076
TMEM45A	CHIR-99021	-0.15692	1.03E-05	55076
TMEM45A	CI-1040	0.054275	0.218378	55076
TMEM45A	CMK	0.042107	0.742093	55076
TMEM45A	CP466722	0.190089	3.34E-08	55076
TMEM45A	CP724714	-0.01766	0.78608	55076
TMEM45A	CUDC-101	0.173928	8.26E-07	55076
TMEM45A	CX-5461	0.156867	8.6E-06	55076
TMEM45A	Camptothecin	0.036914	0.430092	55076
TMEM45A	Cetuximab	-0.08383	0.034668	55076
TMEM45A	Cisplatin	-0.13993	0.000963	55076
TMEM45A	Crizotinib	-0.02195	0.903163	55076
TMEM45A	Cyclopamine	-0.01188	0.933988	55076
TMEM45A	Cytarabine	0.000262	0.998024	55076
TMEM45A	DMOG	0.047729	0.298028	55076
TMEM45A	Dabrafenib	0.021377	0.659078	55076
TMEM45A	Dasatinib	-0.15786	0.010375	55076
TMEM45A	Docetaxel	-0.28824	4.35E-16	55076
TMEM45A	Doxorubicin	-0.01435	0.858057	55076
TMEM45A	EHT 1864	-0.0265	0.726493	55076
TMEM45A	EKB-569	0.170552	3.18E-06	55076
TMEM45A	EX-527	-0.06892	0.445714	55076
TMEM45A	Elesclomol	-0.1447	0.000301	55076

TMEM45A	Embelin	-0.06016	0.269606	55076
TMEM45A	Epothilone B	-0.04962	0.328388	55076
TMEM45A	Erlotinib	-0.14492	0.031735	55076
TMEM45A	Etoposide	0.054624	0.241053	55076
TMEM45A	FH535	-0.02032	0.720117	55076
TMEM45A	FK866	0.168838	1.43E-06	55076
TMEM45A	FMK	0.09472	0.085909	55076
TMEM45A	FR-180204	0.081147	0.079599	55076
TMEM45A	FTI-277	-0.19729	2.26E-07	55076
TMEM45A	Foretinib	0.038604	0.376098	55076
TMEM45A	GDC0449	-0.00688	0.963115	55076
TMEM45A	GDC0941	-0.01538	0.826011	55076
TMEM45A	GNF-2	-0.06106	0.787245	55076
TMEM45A	GSK-650394	0.020017	0.823138	55076
TMEM45A	GSK1070916	0.15407	1.37E-05	55076
TMEM45A	GSK1904529A	-0.08584	0.04744	55076
TMEM45A	GSK2126458	0.16916	1.83E-06	55076
TMEM45A	GSK269962A	-0.07321	0.108849	55076
TMEM45A	GSK429286A	0.033926	0.444912	55076
TMEM45A	GSK690693	0.171188	1.07E-06	55076
TMEM45A	GW 441756	-0.00451	0.993679	55076
TMEM45A	GW-2580	0.01723	0.977243	55076
TMEM45A	GW843682X	0.155606	0.034217	55076
TMEM45A	Gefitinib	-0.06343	0.124953	55076
TMEM45A	Gemcitabine	0.041592	0.412398	55076
TMEM45A	Genentech Cpd 10	0.106089	0.003263	55076
TMEM45A	HG-5-113-01	0.054101	0.45771	55076
TMEM45A	HG-5-88-01	-0.03311	0.850934	55076
TMEM45A	HG-6-64-1	-0.05368	0.256052	55076
TMEM45A	I-BET-762	0.264256	3.66E-15	55076
TMEM45A	IOX2	-0.09672	0.057072	55076
TMEM45A	IPA-3	0.119325	0.001592	55076
TMEM45A	Imatinib	0.007362	0.977664	55076
TMEM45A	Ispinesib Mesylate	0.144679	4.16E-05	55076
TMEM45A	JNJ-26854165	-0.11938	0.005678	55076
TMEM45A	JNK Inhibitor VIII	-0.16548	2.21E-05	55076
TMEM45A	JNK-9L	0.039709	0.496346	55076
TMEM45A	JQ1	0.037115	0.406296	55076

TMEM45A	JQ12	0.081397	0.099612	55076
TMEM45A	JW-7-24-1	0.149045	1.9E-05	55076
TMEM45A	JW-7-52-1	0.030741	0.795159	55076
TMEM45A	KIN001-055	-0.00512	0.956131	55076
TMEM45A	KIN001-102	0.215033	3.03E-10	55076
TMEM45A	KIN001-135	-0.18126	0.02812	55076
TMEM45A	KIN001-236	0.171103	1.19E-06	55076
TMEM45A	KIN001-244	0.163029	3.79E-06	55076
TMEM45A	KIN001-260	0.178285	3.14E-07	55076
TMEM45A	KIN001-266	0.086647	0.049212	55076
TMEM45A	KIN001-270	0.049298	0.220955	55076
TMEM45A	KU-55933	0.049292	0.402862	55076
TMEM45A	LAQ824	0.202682	2.92E-08	55076
TMEM45A	LFM-A13	-0.16259	0.000194	55076
TMEM45A	LY317615	0.121353	0.002104	55076
TMEM45A	Lapatinib	-0.23585	3.65E-05	55076
TMEM45A	Lenalidomide	0.043773	0.554258	55076
TMEM45A	Linifanib	0.022948	0.703689	55076
TMEM45A	Lisitinib	-0.03299	0.633378	55076
TMEM45A	MG-132	-0.07294	0.398851	55076
TMEM45A	MK-2206	0.061638	0.214907	55076
TMEM45A	MLN4924	-0.09082	0.079219	55076
TMEM45A	MP470	0.040784	0.359039	55076
TMEM45A	MPS-1-IN-1	0.163403	4.88E-06	55076
TMEM45A	MS-275	0.12081	0.096483	55076
TMEM45A	Masitinib	0.099553	0.006727	55076
TMEM45A	Methotrexate	0.259379	1.54E-13	55076
TMEM45A	Midostaurin	-0.14034	0.000429	55076
TMEM45A	Mitomycin C	0.081509	0.077506	55076
TMEM45A	NG-25	0.182546	1.27E-07	55076
TMEM45A	NPK76-II-72-1	0.251579	6.75E-14	55076
TMEM45A	NSC-207895	0.053828	0.224792	55076
TMEM45A	NSC-87877	-0.06045	0.257946	55076
TMEM45A	NU-7441	-0.0142	0.886502	55076
TMEM45A	Navitoclax	0.220837	5.13E-10	55076
TMEM45A	Nilotinib	0.069834	0.14464	55076
TMEM45A	Nutlin-3a (-)	0.116722	0.0054	55076
TMEM45A	OSI-027	0.178495	3.05E-07	55076
TMEM45A	OSI-930	0.124979	0.000704	55076
TMEM45A	OSU-03012	0.078439	0.084843	55076

TMEM45A	Obatoclox Mesylate	0.059203	0.199438	55076
TMEM45A	Olaparib	-0.11384	0.004826	55076
TMEM45A	PAC-1	0.183356	1.2E-06	55076
TMEM45A	PD-0325901	-0.04048	0.336295	55076
TMEM45A	PD-0332991	0.019676	0.767503	55076
TMEM45A	PD-173074	-0.01386	0.946657	55076
TMEM45A	PF-4708671	-0.05438	0.547426	55076
TMEM45A	PF-562271	-0.12643	0.007458	55076
TMEM45A	PFI-1	0.023622	0.663147	55076
TMEM45A	PHA-665752	-0.10793	0.383249	55076
TMEM45A	PHA-793887	0.246982	2.26E-13	55076
TMEM45A	PI-103	0.160254	4.77E-06	55076
TMEM45A	PIK-93	0.227302	2.02E-11	55076
TMEM45A	PLX4720	0.003033	0.954014	55076
TMEM45A	Paclitaxel	0.023657	0.870679	55076
TMEM45A	Parthenolide	0.042179	0.70752	55076
TMEM45A	Pazopanib	-0.13564	0.002144	55076
TMEM45A	Phenformin	0.136109	0.000158	55076
TMEM45A	Pyrimethamine	0.020912	0.882967	55076
TMEM45A	QL-VIII-58	-0.11666	0.069788	55076
TMEM45A	QL-X-138	0.160383	5.38E-06	55076
TMEM45A	QL-XI-92	0.160883	4.19E-06	55076
TMEM45A	QL-XII-47	0.119011	0.001576	55076
TMEM45A	QL-XII-61	0.140195	0.015252	55076
TMEM45A	QS11	0.0665	0.241244	55076
TMEM45A	RDEA119	-0.01259	0.764825	55076
TMEM45A	RO-3306	-0.1902	1.11E-06	55076
TMEM45A	Rapamycin	0.003311	0.985116	55076
TMEM45A	Roscovitine	-0.06081	0.712669	55076
TMEM45A	Ruxolitinib	0.056702	0.243355	55076
TMEM45A	S-Trityl-L-cysteine	0.180367	0.009874	55076
TMEM45A	SB 216763	-0.16339	0.000238	55076
TMEM45A	SB 505124	-0.08336	0.17883	55076
TMEM45A	SB52334	0.013999	0.813849	55076
TMEM45A	SB590885	0.035127	0.50016	55076
TMEM45A	SGC0946	-0.08485	0.065009	55076
TMEM45A	SL 0101-1	-0.04548	0.551573	55076
TMEM45A	SN-38	-0.02361	0.63374	55076
TMEM45A	SNX-2112	0.18935	5.03E-08	55076

TMEM45A	STF-62247	0.123317	0.001245	55076
TMEM45A	Salubrinal	0.071968	0.390256	55076
TMEM45A	Saracatinib	-0.10637	0.175312	55076
TMEM45A	Shikonin	0.03788	0.494269	55076
TMEM45A	Sorafenib	-0.01295	0.927359	55076
TMEM45A	Sunitinib	0.058937	0.449327	55076
TMEM45A	T0901317	0.117109	0.002168	55076
TMEM45A	TAE684	-0.12844	0.132093	55076
TMEM45A	TAK-715	0.197659	1.24E-08	55076
TMEM45A	TG101348	0.171675	6.95E-07	55076
TMEM45A	TGX221	-0.25066	1.11E-05	55076
TMEM45A	THZ-2-102-1	0.176736	4.21E-07	55076
TMEM45A	THZ-2-49	0.14018	8.92E-05	55076
TMEM45A	TL-1-85	0.143138	4.53E-05	55076
TMEM45A	TL-2-105	0.140014	9.16E-05	55076
TMEM45A	TPCA-1	0.275653	0	55076
TMEM45A	TW 37	-0.0577	0.19901	55076
TMEM45A	Talazoparib	-0.05107	0.257908	55076
TMEM45A	Tamoxifen	-0.0524	0.623386	55076
TMEM45A	Temozolomide	0.013629	0.883829	55076
TMEM45A	Temsirolimus	-0.03582	0.494446	55076
TMEM45A	Thapsigargin	-0.02559	0.732868	55076
TMEM45A	Tipifarnib	0.038851	0.56874	55076
TMEM45A	Tivozanib	-0.00848	0.912926	55076
TMEM45A	Trametinib	-0.05336	0.164889	55076
TMEM45A	Tubastatin A	0.22502	4.37E-11	55076
TMEM45A	UNC0638	0.105752	0.002423	55076
TMEM45A	UNC1215	-0.13048	0.003264	55076
TMEM45A	VNLG/124	0.097323	0.012424	55076
TMEM45A	VX-11e	0.152389	0.000139	55076
TMEM45A	VX-680	0.103581	0.217836	55076
TMEM45A	VX-702	0.042032	0.842078	55076
TMEM45A	Veliparib	-0.03065	0.673987	55076
TMEM45A	Vinblastine	0.012963	0.807751	55076
TMEM45A	Vinorelbine	0.022019	0.727353	55076
TMEM45A	Vorinostat	0.265146	4.39E-14	55076
TMEM45A	WH-4-023	-0.1336	0.051864	55076
TMEM45A	WZ-1-84	-0.18396	0.005118	55076
TMEM45A	WZ3105	0.203722	2.7E-09	55076
TMEM45A	XAV939	-0.14397	9.98E-05	55076

TMEM45A	XL-184	0.02706	0.598158	55076
TMEM45A	XMD11-85h	0.066511	0.673232	55076
TMEM45A	XMD13-2	0.181068	1.63E-07	55076
TMEM45A	XMD14-99	0.134029	0.00022	55076
TMEM45A	XMD15-27	0.055759	0.225518	55076
TMEM45A	XMD8-85	-0.07587	0.344064	55076
TMEM45A	XMD8-92	0.069831	0.488345	55076
TMEM45A	Y-39983	0.107801	0.003061	55076
TMEM45A	YK 4-279	-0.05903	0.249593	55076
TMEM45A	YM155	-0.00845	0.905205	55076
TMEM45A	YM201636	0.177159	4.15E-07	55076
TMEM45A	Z-LLNle-CHO	0.059681	0.434939	55076
TMEM45A	ZG-10	-0.01412	0.87026	55076
TMEM45A	ZM-447439	0.103872	0.013456	55076
TMEM45A	ZSTK474	0.191363	3.67E-08	55076
TMEM45A	Zibotentan	-0.07879	0.506987	55076
TMEM45A	piperlongumine	-0.15162	6.6E-05	55076
TMEM45A	rTRAIL	-0.04793	0.50779	55076
TMEM45A	selumetinib	-0.00275	0.952042	55076

Supplementary Table S3:

symbol	drug	cor	fdr	entrez
TMEM45A	16-beta-bromoandrosterone	0.101013	0.028622	55076
TMEM45A	1S,3R-RSL-3	0.106497	0.007435	55076
TMEM45A	3-Cl-AHPC	0.193285	2.56E-07	55076
TMEM45A	968	-0.19524	0.801757	55076
TMEM45A	A-804598	-0.09198	0.476815	55076
TMEM45A	AA-COCF3	0.182063	6.74E-06	55076
TMEM45A	ABT-199	0.101846	0.062921	55076
TMEM45A	ABT-737	0.138258	0.001054	55076
TMEM45A	AC55649	0.012223	0.945845	55076
TMEM45A	AGK-2	-0.02651	0.950025	55076
TMEM45A	AM-580	0.00079	0.990609	55076
TMEM45A	AT-406	0.038783	0.739752	55076
TMEM45A	AT13387	0.29542	1.17E-07	55076
TMEM45A	AT7867	0.13041	0.001042	55076
TMEM45A	AZ-3146	0.229211	4.41E-09	55076
TMEM45A	AZD1480	0.108227	0.117335	55076
TMEM45A	AZD4547	0.025416	0.633731	55076
TMEM45A	AZD6482	-0.04568	0.444034	55076
TMEM45A	AZD7545	0.117368	0.004802	55076
TMEM45A	AZD7762	0.206269	2.94E-08	55076
TMEM45A	AZD8055	0.156328	6.43E-05	55076
TMEM45A	B02	0.17389	9.04E-06	55076
TMEM45A	BCL-LZH-4	-0.07396	0.701483	55076
TMEM45A	BEC	0.038622	0.999979	55076
TMEM45A	BI-2536	0.277554	1.08E-14	55076
TMEM45A	BIBR-1532	0.099403	0.023184	55076
TMEM45A	BIRB-796	0.149364	0.000471	55076
TMEM45A	BIX-01294	0.244448	6.48E-11	55076
TMEM45A	BMS-195614	0.03843	0.56352	55076
TMEM45A	BMS-270394	0.079565	0.074975	55076
TMEM45A	BMS-345541	0.195568	3.24E-07	55076
TMEM45A	BMS-536924	0.076575	0.129423	55076
TMEM45A	BMS-754807	0.166511	4.38E-05	55076
TMEM45A	BRD-A02303741	0.039877	0.483708	55076
TMEM45A	BRD-A05715709	-0.08367	0.569649	55076
TMEM45A	BRD-A71883111	0.137913	0.000802	55076
TMEM45A	BRD-A86708339	0.338893	1.12E-09	55076

TMEM45A	BRD-A94377914	0.252873	1.71E-06	55076
TMEM45A	BRD-K01737880	0.217514	0.241037	55076
TMEM45A	BRD-K02251932	0.106144	0.025596	55076
TMEM45A	BRD-K02492147	-0.0842	0.134384	55076
TMEM45A	BRD-K04800985	0.037995	0.99881	55076
TMEM45A	BRD-K09344309	0.078333	0.88869	55076
TMEM45A	BRD-K09587429	-0.0181	0.815821	55076
TMEM45A	BRD-K11533227	0.135367	0.001285	55076
TMEM45A	BRD-K13999467	0.119376	0.003956	55076
TMEM45A	BRD-K14844214	0.064342	0.338449	55076
TMEM45A	BRD-K16147474	-0.02909	0.947479	55076
TMEM45A	BRD-K17060750	-0.08126	0.093566	55076
TMEM45A	BRD-K19103580	0.124481	0.006187	55076
TMEM45A	BRD-K24690302	0.164559	4.48E-05	55076
TMEM45A	BRD-K26531177	0.212178	6.86E-08	55076
TMEM45A	BRD-K27224038	-0.07327	0.784316	55076
TMEM45A	BRD-K27986637	0.095432	0.526945	55076
TMEM45A	BRD-K28456706	0.137721	0.000634	55076
TMEM45A	BRD-K29086754	-0.11847	0.502911	55076
TMEM45A	BRD-K29313308	0.125339	0.002322	55076
TMEM45A	BRD-K30019337	-0.10699	0.678438	55076
TMEM45A	BRD-K30748066	0.201781	0.243064	55076
TMEM45A	BRD-K33199242	-0.02884	0.965156	55076
TMEM45A	BRD-K33514849	0.199032	0.999288	55076
TMEM45A	BRD-K34099515	0.101586	0.874805	55076
TMEM45A	BRD-K34222889	0.250395	1.05E-11	55076
TMEM45A	BRD-K34485477	0.055892	0.998562	55076
TMEM45A	BRD-K35604418	0.182772	2.08E-06	55076
TMEM45A	BRD-K37390332	-0.03224	0.901908	55076
TMEM45A	BRD-K41334119	-0.11168	0.848147	55076
TMEM45A	BRD-K41597374	0.260713	6.36E-12	55076
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TMEM45A	BRD-K45681478	0.160494	0.000126	55076
TMEM45A	BRD-K48334597	0.16699	0.106307	55076
TMEM45A	BRD-K48477130	-0.03488	0.873942	55076
TMEM45A	BRD-K49290616	-0.06777	0.86666	55076
TMEM45A	BRD-K50799972	0.05826	0.39488	55076
TMEM45A	BRD-K51490254	0.154744	0.000166	55076
TMEM45A	BRD-K51831558	0.063621	0.379684	55076

TMEM45A	BRD-K52037352	0.081773	0.181456	55076
TMEM45A	BRD-K55116708	0.139943	0.000948	55076
TMEM45A	BRD-K61166597	0.262621	7.28E-12	55076
TMEM45A	BRD-K63431240	0.215336	7.19E-08	55076
TMEM45A	BRD-K64610608	-0.03157	0.808062	55076
TMEM45A	BRD-K66453893	0.241919	6.12E-11	55076
TMEM45A	BRD-K66532283	0.22905	3.25E-09	55076
TMEM45A	BRD-K70511574	0.275624	6.25E-14	55076
TMEM45A	BRD-K71781559	-0.03106	0.991525	55076
TMEM45A	BRD-K75293299	-0.11446	0.613493	55076
TMEM45A	BRD-K78574327	-0.10443	0.948504	55076
TMEM45A	BRD-K80183349	0.243067	1.21E-10	55076
TMEM45A	BRD-K84807411	-0.11543	0.641125	55076
TMEM45A	BRD-K85133207	0.154069	0.000244	55076
TMEM45A	BRD-K86535717	-0.10127	0.741099	55076
TMEM45A	BRD-K88742110	0.205499	1.97E-07	55076
TMEM45A	BRD-K90370028	-0.02766	0.955819	55076
TMEM45A	BRD-K92856060	0.136579	0.000703	55076
TMEM45A	BRD-K96431673	-0.115	0.985799	55076
TMEM45A	BRD-K96970199	-0.09506	0.998764	55076
TMEM45A	BRD-K97651142	0.200288	5E-07	55076
TMEM45A	BRD-K99006945	-0.21513	0.002011	55076
TMEM45A	BRD-M00053801	0.035357	0.762726	55076
TMEM45A	BRD1378	-0.02276	0.867533	55076
TMEM45A	BRD1812	0.216388	1.7E-08	55076
TMEM45A	BRD1835	0.118413	0.008629	55076
TMEM45A	BRD4132	0.023254	0.747727	55076
TMEM45A	BRD5468	-0.02406	0.820959	55076
TMEM45A	BRD6340	0.191464	7.78E-07	55076
TMEM45A	BRD8899	-0.09286	0.323793	55076
TMEM45A	BRD8958	0.050584	0.982209	55076
TMEM45A	BRD9647	0.019462	0.752442	55076
TMEM45A	BRD9876	0.039928	0.536589	55076
TMEM45A	BYL-719	0.115832	0.050636	55076
TMEM45A	Bax channel blocker	0.235403	1.05E-08	55076
TMEM45A	C6-ceramide	0.006165	0.970462	55076
TMEM45A	CAL-101	-0.06374	0.267854	55076
TMEM45A	CAY10576	-0.18255	0.004401	55076
TMEM45A	CAY10594	0.065152	0.25174	55076
TMEM45A	CAY10618	0.194999	2.27E-07	55076

TMEM45A	CBB-1007	-0.02234	0.923757	55076
TMEM45A	CCT036477	0.140839	0.000253	55076
TMEM45A	CD-1530	0.007165	0.918803	55076
TMEM45A	CD-437	0.269014	2.73E-13	55076
TMEM45A	CHIR-99021	0.131797	0.001178	55076
TMEM45A	CHM-1	0.283153	8.09E-15	55076
TMEM45A	CI-976	-0.05781	0.683665	55076
TMEM45A	CID-5951923	-0.09097	0.240523	55076
TMEM45A	CIL41	0.041468	0.591624	55076
TMEM45A	CIL55	0.000131	0.999607	55076
TMEM45A	CIL55A	0.159369	0.005935	55076
TMEM45A	CIL56	0.132649	0.024801	55076
TMEM45A	CIL70	0.147339	0.008462	55076
TMEM45A	COL-3	0.354931	1.86E-16	55076
TMEM45A	CR-1-31B	0.309674	7.66E-18	55076
TMEM45A	Ch-55	0.013923	0.81983	55076
TMEM45A	Compound 1541A	0.015305	0.850122	55076
TMEM45A	Compound 23 citrate	0.361807	1.39E-22	55076
TMEM45A	Compound 7d-cis	0.188656	5.38E-06	55076
TMEM45A	DBeQ	0.073186	0.093182	55076
TMEM45A	DNMDP	-0.10866	0.10365	55076
TMEM45A	ELCPK	0.194384	0.000679	55076
TMEM45A	ETP-46464	0.158339	0.001517	55076
TMEM45A	EX-527	-0.04005	0.75131	55076
TMEM45A	FGIN-1-27	-0.21532	0.053837	55076
TMEM45A	FQI-1	0.229415	1.49E-05	55076
TMEM45A	FQI-2	0.22857	4.29E-10	55076
TMEM45A	FSC231	-0.05494	0.99945	55076
TMEM45A	GANT-61	0.040972	0.513438	55076
TMEM45A	GDC-0879	0.068829	0.183918	55076
TMEM45A	GDC-0941	0.143708	0.000594	55076
TMEM45A	GMX-1778	0.147655	0.000169	55076
TMEM45A	GSK-3 inhibitor IX	0.116395	0.004945	55076
TMEM45A	GSK-J4	0.389637	0.006239	55076
TMEM45A	GSK1059615	-0.02539	0.9386	55076
TMEM45A	GSK2636771	-0.09447	0.270591	55076
TMEM45A	GSK4112	0.121734	0.006889	55076
TMEM45A	GSK461364	0.284548	9.21E-15	55076
TMEM45A	GSK525762A	0.307459	2.63E-17	55076
TMEM45A	GW-405833	0.299107	5E-16	55076

TMEM45A	GW-843682X	0.22295	1.04E-08	55076
TMEM45A	HBX-41108	0.133778	0.009429	55076
TMEM45A	HC-067047	0.096976	0.076604	55076
TMEM45A	HLI 373	0.216088	3.28E-08	55076
TMEM45A	I-BET151	0.321569	3.98E-19	55076
TMEM45A	IC-87114	-0.03303	0.658439	55076
TMEM45A	IPR-456	-0.05262	0.697588	55076
TMEM45A	ISOX	0.258451	2.55E-12	55076
TMEM45A	IU1	0.044981	0.629822	55076
TMEM45A	JQ-1	0.30232	7.99E-17	55076
TMEM45A	JW-480	-0.02569	0.893447	55076
TMEM45A	JW-55	-0.13956	0.251295	55076
TMEM45A	JW-74	0.090569	0.246733	55076
TMEM45A	KH-CB19	-0.09084	0.401289	55076
TMEM45A	KHS101	0.189095	2.72E-06	55076
TMEM45A	KPT185	0.270481	3.47E-10	55076
TMEM45A	KU 0060648	0.185736	1.66E-06	55076
TMEM45A	KU-0063794	0.190306	1.5E-06	55076
TMEM45A	KU-55933	0.148419	0.000313	55076
TMEM45A	KU-60019	0.247271	4.93E-11	55076
TMEM45A	KW-2449	0.1902	3.35E-07	55076
TMEM45A	KX2-391	0.255638	4.92E-12	55076
TMEM45A	Ki8751	0.076455	0.081083	55076
TMEM45A	Ko-143	0.227854	2.72E-09	55076
TMEM45A	L-685458	0.080628	0.144611	55076
TMEM45A	LE-135	0.08745	0.042352	55076
TMEM45A	LRRK2-IN-1	0.352059	3.42E-16	55076
TMEM45A	LY-2157299	-0.08863	0.696725	55076
TMEM45A	LY-2183240	0.277431	2.61E-14	55076
TMEM45A	MG-132	0.116301	0.143909	55076
TMEM45A	MGCD-265	0.172214	6.25E-06	55076
TMEM45A	MI-1	-0.03008	0.750655	55076
TMEM45A	MI-2	0.220769	0.000373	55076
TMEM45A	MK-0752	-0.08849	0.196647	55076
TMEM45A	MK-1775	0.268477	6.36E-13	55076
TMEM45A	MK-2206	0.161156	9.72E-05	55076
TMEM45A	ML006	0.067536	0.195458	55076
TMEM45A	ML029	0.189891	4.09E-06	55076
TMEM45A	ML031	0.193627	3.09E-06	55076
TMEM45A	ML050	0.094739	0.024546	55076

TMEM45A	ML083	-0.05993	0.596027	55076
TMEM45A	ML162	0.080957	0.051975	55076
TMEM45A	ML203	0.096741	0.054292	55076
TMEM45A	ML210	0.119737	0.002852	55076
TMEM45A	ML239	-0.0097	0.854524	55076
TMEM45A	ML258	-0.00283	0.984081	55076
TMEM45A	ML311	0.262675	4.58E-13	55076
TMEM45A	ML312	-0.14705	0.95729	55076
TMEM45A	ML320	0.111642	0.010662	55076
TMEM45A	ML334 diastereomer	-0.08616	0.195714	55076
TMEM45A	MLN2238	0.154295	5.9E-05	55076
TMEM45A	MLN2480	0.040364	0.732507	55076
TMEM45A	MST-312	0.140214	0.00025	55076
TMEM45A	Mdivi-1	0.134724	0.000889	55076
TMEM45A	Merck60	0.25746	2.14E-12	55076
TMEM45A	N9-isopropylolomoucine	0.186716	2.18E-06	55076
TMEM45A	NPC-26	0.006884	0.970142	55076
TMEM45A	NSC 74859	0.064396	0.208153	55076
TMEM45A	NSC19630	0.247778	4.96E-08	55076
TMEM45A	NSC23766	0.130513	0.001011	55076
TMEM45A	NSC30930	-0.11942	0.066936	55076
TMEM45A	NSC48300	0.114924	0.002973	55076
TMEM45A	NSC632839	0.226491	1.09E-09	55076
TMEM45A	NSC95397	0.213908	7.04E-08	55076
TMEM45A	NVP-231	0.26345	1.16E-12	55076
TMEM45A	NVP-ADW742	0.174101	2.12E-05	55076
TMEM45A	NVP-BEZ235	0.182767	0.000128	55076
TMEM45A	NVP-BSK805	0.174883	5.31E-06	55076
TMEM45A	NVP-TAE684	0.161938	0.00013	55076
TMEM45A	O-6-benzylguanine	-0.0312	0.837419	55076
TMEM45A	OSI-027	0.09169	0.028354	55076
TMEM45A	OSI-930	0.257653	6.09E-10	55076
TMEM45A	PAC-1	0.32486	5E-18	55076
TMEM45A	PD 153035	0.030325	0.647019	55076
TMEM45A	PD318088	0.0179	0.760902	55076
TMEM45A	PDMP	0.163913	5.35E-05	55076
TMEM45A	PF-184	0.193542	4.07E-07	55076
TMEM45A	PF-3758309	0.344558	8.79E-11	55076
TMEM45A	PF-4800567 hydrochloride	-0.04496	0.999586	55076
TMEM45A	PF-543	0.177981	3.95E-05	55076

TMEM45A	PF-573228	0.19292	3.89E-07	55076
TMEM45A	PF-750	0.15095	0.000678	55076
TMEM45A	PHA-793887	0.270204	1.14E-13	55076
TMEM45A	PI-103	0.046697	0.282567	55076
TMEM45A	PIK-93	0.109895	0.007068	55076
TMEM45A	PL-DI	0.291517	2.53E-15	55076
TMEM45A	PLX-4720	-0.08305	0.183624	55076
TMEM45A	PRIMA-1	0.2825	7.56E-14	55076
TMEM45A	PRIMA-1-Met	0.145729	0.024296	55076
TMEM45A	PRL-3 inhibitor I	-0.01177	0.947154	55076
TMEM45A	PX-12	0.336565	2.27E-20	55076
TMEM45A	PYR-41	0.043227	0.432899	55076
TMEM45A	QS-11	0.047836	0.873285	55076
TMEM45A	QW-BI-011	0.177437	0.038908	55076
TMEM45A	R428	0.173118	0.000287	55076
TMEM45A	RAF265	0.086629	0.101256	55076
TMEM45A	RG-108	0.130357	0.001747	55076
TMEM45A	RITA	0.182373	3.92E-06	55076
TMEM45A	RO4929097	0.233484	0.001192	55076
TMEM45A	Repligen 136	0.223089	3.12E-08	55076
TMEM45A	SB-225002	0.220144	1.62E-09	55076
TMEM45A	SB-431542	0.005022	0.976316	55076
TMEM45A	SB-525334	0.091537	0.054439	55076
TMEM45A	SB-743921	0.27645	1.54E-14	55076
TMEM45A	SCH-529074	0.141985	0.001183	55076
TMEM45A	SCH-79797	0.236945	2.11E-10	55076
TMEM45A	SGX-523	-0.16596	0.000664	55076
TMEM45A	SID 26681509	0.036842	0.454737	55076
TMEM45A	SJ-172550	0.03776	0.751304	55076
TMEM45A	SKI-II	0.057471	0.20878	55076
TMEM45A	SMER-3	0.132237	0.002379	55076
TMEM45A	SN-38	0.185937	9.31E-06	55076
TMEM45A	SNS-032	0.141554	0.000459	55076
TMEM45A	SNX-2112	0.265244	2.87E-13	55076
TMEM45A	SR-II-138A	0.332741	6.61E-21	55076
TMEM45A	SR1001	0.008512	0.93089	55076
TMEM45A	SR8278	0.209275	0.516578	55076
TMEM45A	SRT-1720	0.181007	1.42E-05	55076
TMEM45A	STF-31	0.159437	4.51E-05	55076
TMEM45A	SU11274	0.158302	5.58E-05	55076

TMEM45A	SZ4TA2	-0.04242	0.74487	55076
TMEM45A	StemRegenin 1	0.222504	6.97E-09	55076
TMEM45A	TG-100-115	-0.01108	0.865084	55076
TMEM45A	TG-101348	0.17219	8.74E-06	55076
TMEM45A	TGX-221	-0.06321	0.342577	55076
TMEM45A	TPCA-1	0.231657	6.16E-10	55076
TMEM45A	TW-37	0.186695	1.88E-06	55076
TMEM45A	UNC0321	-0.03961	0.730294	55076
TMEM45A	UNC0638	0.123372	0.00264	55076
TMEM45A	VAF-347	-0.04353	0.522482	55076
TMEM45A	VER-155008	0.121371	0.002982	55076
TMEM45A	VU0155056	-0.04351	0.896467	55076
TMEM45A	WAY-362450	-0.00354	0.998521	55076
TMEM45A	WP1130	0.16296	3.08E-05	55076
TMEM45A	WZ4002	0.0788	0.238165	55076
TMEM45A	WZ8040	0.076532	0.125894	55076
TMEM45A	XL765	-0.00709	0.930165	55076
TMEM45A	YK 4-279	0.256357	2.46E-12	55076
TMEM45A	YM-155	0.05311	0.281783	55076
TMEM45A	ZSTK474	0.026371	0.663412	55076
TMEM45A	abiraterone	-0.07628	0.591913	55076
TMEM45A	afatinib	0.099001	0.028026	55076
TMEM45A	alisertib	0.243699	5.79E-11	55076
TMEM45A	alvocidib	0.209405	0.000193	55076
TMEM45A	apicidin	0.282882	5.78E-15	55076
TMEM45A	austocystin D	0.096335	0.033948	55076
TMEM45A	avicin D	-0.04997	0.608189	55076
TMEM45A	avrainvillamide	0.183487	7.64E-05	55076
TMEM45A	axitinib	0.137267	0.000336	55076
TMEM45A	azacitidine	0.123729	0.007176	55076
TMEM45A	bafilomycin A1	0.325006	0.435044	55076
TMEM45A	barasertib	0.230908	7.54E-10	55076
TMEM45A	bardoxolone methyl	0.225431	2.29E-08	55076
TMEM45A	belinostat	0.409249	2.06E-15	55076
TMEM45A	bendamustine	0.095048	0.025711	55076
TMEM45A	betulinic acid	-0.06239	0.67944	55076
TMEM45A	bexarotene	0.143733	0.000577	55076
TMEM45A	birinapant	0.015364	0.853223	55076
TMEM45A	blebbistatin	-0.13028	0.845983	55076
TMEM45A	bleomycin A2	0.096732	0.053255	55076

TMEM45A	bortezomib	0.142354	0.000258	55076
TMEM45A	bosutinib	0.172192	1.34E-05	55076
TMEM45A	brefeldin A	0.192373	3.57E-06	55076
TMEM45A	brivanib	0.26012	2.71E-11	55076
TMEM45A	cabozantinib	0.063258	0.188214	55076
TMEM45A	canertinib	0.059044	0.20828	55076
TMEM45A	cediranib	0.067317	0.57645	55076
TMEM45A	ceranib-2	0.218431	2.62E-09	55076
TMEM45A	cerulenin	0.224359	2.11E-09	55076
TMEM45A	chlorambucil	0.190003	5.6E-07	55076
TMEM45A	ciclopirox	0.354513	3.08E-23	55076
TMEM45A	ciclosporin	0.069436	0.191106	55076
TMEM45A	cimetidine	-0.06058	0.965132	55076
TMEM45A	clofarabine	0.271004	6.61E-14	55076
TMEM45A	crizotinib	0.26596	8.84E-13	55076
TMEM45A	cucurbitacin I	0.152308	0.000114	55076
TMEM45A	curcumin	0.172313	5.32E-06	55076
TMEM45A	cycanoquinoline 11	0.029703	0.778572	55076
TMEM45A	cyclophosphamide	-0.03978	0.993392	55076
TMEM45A	cytarabine hydrochloride	0.328239	7.07E-20	55076
TMEM45A	cytochalasin B	0.008384	0.899761	55076
TMEM45A	dabrafenib	0.042961	0.604345	55076
TMEM45A	dacarbazine	0.233747	5.14E-10	55076
TMEM45A	daporinad	0.1788	2.1E-05	55076
TMEM45A	darinaparsin	0.093991	0.142521	55076
TMEM45A	dasatinib	-0.12355	0.003539	55076
TMEM45A	decitabine	0.309097	1.03E-17	55076
TMEM45A	dexamethasone	0.157157	0.000134	55076
TMEM45A	dinaciclib	0.237231	1.44E-05	55076
TMEM45A	docetaxel	0.239643	2.4E-05	55076
TMEM45A	doxorubicin	0.208474	1.11E-08	55076
TMEM45A	elocalcitol	0.282961	4.79E-14	55076
TMEM45A	entinostat	0.282221	2.49E-14	55076
TMEM45A	epigallocatechin-3-monogallate	0.136995	0.001391	55076
TMEM45A	erastin	0.170599	1.91E-05	55076
TMEM45A	erismodegib	0.006372	0.958136	55076
TMEM45A	erlotinib	0.089956	0.037819	55076
TMEM45A	etomoxir	0.002934	0.998386	55076
TMEM45A	etoposide	0.218359	3.38E-09	55076
TMEM45A	fingolimod	0.229782	1.5E-09	55076

TMEM45A	fluorouracil	0.27417	1.61E-13	55076
TMEM45A	fluvastatin	-0.10173	0.033106	55076
TMEM45A	foretinib	0.110659	0.006895	55076
TMEM45A	fulvestrant	-0.0226	0.966431	55076
TMEM45A	fumonisin B1	0.005458	0.950189	55076
TMEM45A	gefitinib	0.023872	0.694084	55076
TMEM45A	gemcitabine	0.298679	4.86E-15	55076
TMEM45A	gossypol	0.213646	3.83E-08	55076
TMEM45A	hyperforin	-0.01533	0.90291	55076
TMEM45A	ibrutinib	0.108233	0.046455	55076
TMEM45A	ifosfamide	-0.10472	0.543766	55076
TMEM45A	imatinib	0.164302	4.92E-05	55076
TMEM45A	importazole	0.060582	0.320988	55076
TMEM45A	indisulam	0.271417	7.37E-13	55076
TMEM45A	isoevodiamine	0.238275	1.01E-10	55076
TMEM45A	isoliquiritigenin	0.307886	0.00012	55076
TMEM45A	isonicotinohydroxamic acid	-0.00069	0.998662	55076
TMEM45A	istradefylline	0.030141	0.872331	55076
TMEM45A	itraconazole	0.059874	0.377471	55076
TMEM45A	lapatinib	0.129993	0.002016	55076
TMEM45A	lenvatinib	-0.00461	0.936514	55076
TMEM45A	leptomycin B	0.221743	1.02E-09	55076
TMEM45A	linifanib	0.20612	3.93E-08	55076
TMEM45A	linsitinib	0.160699	7.97E-05	55076
TMEM45A	lomeguatrib	0.037687	0.524126	55076
TMEM45A	lovastatin	-0.11229	0.013283	55076
TMEM45A	manumycin A	0.197617	1.17E-07	55076
TMEM45A	marinopyrrole A	0.182866	0.000194	55076
TMEM45A	masitinib	0.172174	1.43E-05	55076
TMEM45A	methotrexate	0.186154	3.22E-06	55076
TMEM45A	methylstat	0.232701	3.32E-07	55076
TMEM45A	mitomycin	0.221642	2.67E-09	55076
TMEM45A	momelotinib	0.125603	0.001756	55076
TMEM45A	myricetin	0.063968	0.542907	55076
TMEM45A	myriocin	-0.18236	0.67056	55076
TMEM45A	nakiterpiosin	0.253803	6.73E-12	55076
TMEM45A	narciclasine	0.309404	4.7E-17	55076
TMEM45A	navitoclax	0.170216	1.85E-05	55076
TMEM45A	necrostatin-1	0.112122	0.011923	55076
TMEM45A	necrostatin-7	0.126747	0.002995	55076

TMEM45A	necrosulfonamide	0.280904	4.22E-10	55076
TMEM45A	nelarabine	0.059161	0.757464	55076
TMEM45A	neopeltolide	0.243827	0.004436	55076
TMEM45A	neratinib	0.132578	0.001174	55076
TMEM45A	neuronal differentiation inducer III	0.247919	2.58E-11	55076
TMEM45A	niclosamide	-0.03327	0.491408	55076
TMEM45A	nilotinib	0.072904	0.306934	55076
TMEM45A	nintedanib	0.040538	0.480284	55076
TMEM45A	nutlin-3	0.234652	8.79E-10	55076
TMEM45A	obatoclax	0.212121	1.31E-08	55076
TMEM45A	olaparib	0.124779	0.001429	55076
TMEM45A	oligomycin A	0.180975	2.98E-06	55076
TMEM45A	omacetaxine mepesuccinate	0.199415	7.18E-06	55076
TMEM45A	ouabain	0.166132	9.4E-06	55076
TMEM45A	paclitaxel	0.223167	2.42E-09	55076
TMEM45A	palmostatin B	0.024242	0.855813	55076
TMEM45A	pandacostat	0.109019	0.016285	55076
TMEM45A	panobinostat	0.314382	2.52E-18	55076
TMEM45A	parbendazole	0.266624	1.46E-13	55076
TMEM45A	parthenolide	0.061783	0.271276	55076
TMEM45A	pazopanib	0.16169	2.79E-05	55076
TMEM45A	pevonedistat	0.238621	3.85E-10	55076
TMEM45A	phloretin	0.188445	7.83E-07	55076
TMEM45A	pifithrin-alpha	0.051813	0.393788	55076
TMEM45A	pifithrin-mu	0.251537	2.67E-11	55076
TMEM45A	piperlongumine	0.28031	1.41E-14	55076
TMEM45A	pitstop2	-0.01524	0.9517	55076
TMEM45A	pluripotin	-0.00292	0.966311	55076
TMEM45A	procarbazine	0.023208	0.918469	55076
TMEM45A	prochlorperazine	0.115871	0.006816	55076
TMEM45A	purmorphamine	0.140435	0.001791	55076
TMEM45A	pyrazolanthrone	0.051981	0.307915	55076
TMEM45A	quizartinib	0.0164	0.820907	55076
TMEM45A	regorafenib	0.053229	0.292311	55076
TMEM45A	rigosertib	0.231137	9.14E-10	55076
TMEM45A	ruxolitinib	0.053389	0.221403	55076
TMEM45A	salermide	0.021343	0.865224	55076
TMEM45A	saracatinib	0.030397	0.573406	55076
TMEM45A	selumetinib	-0.01116	0.860554	55076

TMEM45A	semagacestat	-0.02263	0.894951	55076
TMEM45A	serdemetan	0.26583	4.79E-12	55076
TMEM45A	sildenafil	0.017589	0.910486	55076
TMEM45A	silmitasertib	-0.03306	0.717892	55076
TMEM45A	simvastatin	-0.12692	0.014226	55076
TMEM45A	sirolimus	0.217484	1.01E-08	55076
TMEM45A	sitagliptin	-0.08136	0.997718	55076
TMEM45A	skepinone-L	0.23929	4.77E-05	55076
TMEM45A	sorafenib	0.067902	0.12022	55076
TMEM45A	sotrastaurin	0.362919	1.02E-16	55076
TMEM45A	spautin-1	0.093865	0.045538	55076
TMEM45A	staurosporine	-0.23081	0.016902	55076
TMEM45A	sunitinib	0.108754	0.006257	55076
TMEM45A	tacedinaline	0.297509	1.25E-11	55076
TMEM45A	tacrolimus	0.163387	5.62E-05	55076
TMEM45A	tamatinib	-0.0444	0.599205	55076
TMEM45A	tamoxifen	0.057299	0.376664	55076
TMEM45A	tandutinib	0.039814	0.399417	55076
TMEM45A	tanespimycin	0.092671	0.061954	55076
TMEM45A	temozolomide	0.081775	0.168544	55076
TMEM45A	temsirolimus	0.109546	0.07161	55076
TMEM45A	teniposide	0.327369	1.36E-10	55076
TMEM45A	thalidomide	0.031952	0.89433	55076
TMEM45A	tigecycline	0.194976	0.000619	55076
TMEM45A	tipifarnib-P1	0.173061	7.21E-06	55076
TMEM45A	tipifarnib-P2	0.235595	6.53E-06	55076
TMEM45A	tivantinib	0.322518	1.64E-09	55076
TMEM45A	tivozanib	0.031983	0.548649	55076
TMEM45A	topotecan	0.251918	3.94E-12	55076
TMEM45A	tosedostat	0.177625	1.09E-05	55076
TMEM45A	tozasertib	0.238817	0.134545	55076
TMEM45A	trametinib	0.045203	0.594853	55076
TMEM45A	tretinoin	0.161516	4.28E-05	55076
TMEM45A	triazolothiadiazine	0.300257	5.11E-17	55076
TMEM45A	trifluoperazine	0.13839	0.002497	55076
TMEM45A	triptolide	0.246789	6.18E-11	55076
TMEM45A	tubastatin A	0.139094	0.018558	55076
TMEM45A	valdecoxib	0.233379	1.59E-09	55076
TMEM45A	vandetanib	-0.1092	0.018194	55076
TMEM45A	veliparib	0.036789	0.665388	55076

TMEM45A	vemurafenib	-0.15038	0.001728	55076
TMEM45A	vincristine	0.265095	1.09E-13	55076
TMEM45A	vorapaxar	0.050889	0.294159	55076
TMEM45A	vorinostat	0.319795	2E-18	55076
TMEM45A	zebularine	0.240228	3.11E-10	55076

Supplementary Table S4:

Set A	Set A $\cap$ Set B	Set B
SFT2D2	TMEM189	S100A7
WDPCP		S100A9
KIAA1328		IL20RB
MORC4		FABP5P7
BLOC1S6		GJB2
FTO		SDR9C7
TMEM45A		GPR87
TBC1D8B		KRT10
RPAP2		PERP
TMEM212		S100A7A
ASTN2		LIPK
MIPOL1		BPIFC
P4HA1		PGLYRP4
CA9		KRTDAP
BNIP3		FABP5
IFT57		S100A8
TMEM14A		LYPD3
RTP3		NIPAL4
TMEM88		CARD18
TMEM207		CTNNBIP1
NDC1		KRT16
TMEM158		CERS3
TMEM61		TRIM29
TMEM213		GSDMA
SLC35G2		LGALS7B
TMEM25		CLCA2
TMEM30B		PGLYRP3
CTTN		GJB6
CAMTA2		ULBP2
CETP		KLK9
PDCL		GM2A
TMEM9		GJB5
MINDY3		KRT6A
COPS7A		LY6D
GHITM		TUBA4A
ADAMTSL3		HES2

ANKRD37		ABCA12
WFDC5		ADGRF4
KCTD2		SBSN
APOA2		FAT2
ANTXR2		NOD2
ARL6IP5		SFN
ANO1		GJB3
CD209		HOXC13-AS
ANKS6		SERPINB4
KCTD5		DMKN
TMEM205		MICALL1
TMEM116		DSP
TMEM221		IPPK
C5orf46		XG
		ALOXE3
		S100A16
		DUSP7
		DSC1
		KRT17
		GSDMC
		ANXA8L1
		SERPINB3
		FABP5P1
		PKP1
		LYPD5
		KRT5
		IVL
		PI3
		TMEM79
		PVRL1
		DSC3
		PPP1R13L
		PLA2G4E
		TLDC1
		IFFO2
		TYMP
		KRT6B
		FAM83A
		BICD2
		DCBLD1

		DSG3
		CEACAM19
		RP3- 523K23.2
		SERPINB5
		CDH3
		ANXA8
		CASP14
		LAD1
		AHNAK2
		RHOV
		ATP1B3
		PNLIPRP3
		KCTD11
		GRHL1
		N4BP1
		KLC3
		FAM83G
		PGM2
		RDH12
		LINC01181
		ALOX12B
		DSC2
		CYP27C1

Supplementary Table S5:

Name	P - value	Adjusted p-value	Odds Ratio	Combined score
1. Establishment of Skin Barrier (GO:0061436)	1.234e-10	9.998e-8	69.36	1582.40
2. Skin Epidermis Development (GO:0098773)	3.605e-10	1.460e-7	57.11	1241.73
3. Epidermis Development (GO:0008544)	1.839e-8	0.000004964	16.18	288.19
4. Intermediate Filament Organization (GO:0045109)	9.115e-8	0.00001854	16.63	269.59
5. Keratinocyte Differentiation (GO:0030216)	8.983e-7	0.0001300	21.72	302.45
6. Desmosome Organization (GO:0002934)	9.628e-7	0.0001300	77.66	1075.90
7. Skin Development (GO:0043588)	0.000001136	0.0001315	14.90	203.95
8. Epidermal Cell Differentiation (GO:0009913)	0.000004724	0.0004784	15.86	194.53
9. Defense Response to Bacterium (GO:0042742)	0.00001196	0.001077	6.20	70.30
10. Positive Regulation of Epidermis Development (GO:0045684)	0.00006528	0.005288	50.62	487.79

Supplementary Table S6:

Name	P - value	Adjusted p-value	Odds Ratio	Combined score
1.Cornified Envelope (GO:0001533)	3.340e-11	3.407e-9	36.14	871.70
2. Desmosome (GO:0030057)	4.976e-10	2.538e-8	53.93	1155.31
3. Intermediate Filament Cytoskeleton (GO:0045111)	1.516e-9	5.156e-8	22.16	450.10
4. Cell-cell Junction (GO:0005911)	2.494e-7	0.000006360	6.24	94.92
5. Intermediate Filament (GO:0005882)	4.537e-7	0.000009255	13.26	193.63
6. Gap Junction (GO:0005921)	0.000001286	0.00002186	32.56	441.65
7. Keratin Filament (GO:0045095)	0.000006362	0.00009271	15.00	179.43
8. Connexin Complex (GO:0005922)	0.00001647	0.0002100	31.96	352.04
9. Extracellular Exosome (GO:0070062)	0.0006259	0.007093	2.10	15.52
10. Extracellular Vesicle (GO:1903561)	0.0007480	0.007630	2.08	14.95

Supplementary Table S7:

Name	P - value	Adjusted p-value	Odds Ratio	Combined score
1. Wide Pore Channel Activity (GO:0022829)	3.645e-7	0.00006708	25.80	382.54
2. Calcium Ion Binding (GO:0005509)	0.000001901	0.0001749	5.63	74.17
3. Gap Junction Channel Activity (GO:0005243)	0.00002409	0.001477	28.60	304.08
4. RAGE Receptor Binding (GO:0050786)	0.00004774	0.002196	57.85	575.61
5. Peptidoglycan Binding (GO:0042834)	0.0001119	0.003914	40.49	368.37
6. Serine-type Endopeptidase Inhibitor Activity (GO:0004867)	0.0001276	0.003914	11.37	101.98
7. Metal Ion Binding (GO:0046872)	0.0002209	0.005808	3.48	29.29
8. Cell Adhesive Protein Binding Inv in Bundle of His cell-Purkinje Myocyte Communication (GO:0086083)	0.0005505	0.01126	89.40	670.92
9. Peptidoglycan Immune Receptor Activity (GO:0016019)	0.0005505	0.01126	89.40	670.92
10. Apolipoprotein Receptor	0.0008217	0.01375	67.05	476.31

Binding (GO:0034190)				
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Supplementary Table S8:

Name	P - value	Adjusted p-value	Odds Ratio	Combined score
1. CORNIFIED ENVELOPE FORMATION	1.692e-16	1.912e-14	15.59	566.07
2. IL-17 SIGNALING PATHWAY	0.005295	0.2992	6.08	31.88
3. ARACHIDONIC ACID METABOLISM	0.01183	0.4454	6.73	29.87
4. P53 SIGNALING PATHWAY	0.01885	0.5324	5.61	22.26
5. STAPHYLOCOCCUS AUREUS INFECTION	0.03470	0.6958	4.38	14.73
6. VIRION - HUMAN IMMUNODEFICIENCY VIRUS	0.03695	0.6958	33.30	109.83
7. VIRION - FLAVIVIRUS AND ALPHAVIRUS	0.04417	0.7130	26.64	83.10
8. CHOLESTEROL METABOLISM	0.05610	0.7693	5.46	15.73
9. SPHINGOLIPID METABOLISM	0.06207	0.7693	5.15	14.30
10. ESTROGEN SIGNALING PATHWAY	0.08129	0.7693	3.05	7.65

Supplementary Table S9:

Namee	P - value	Adjusted p-value	Odds Ratio	Combined score
1. Formation of the Cornified Envelope	1.030e-16	3.758e-14	22.53	829.23
2. Keratinization	6.456e-13	1.178e-10	12.56	352.49
3. Metal Sequestration by Antimicrobial Proteins	4.506e-8	0.000005483	271.89	4599.09
4. Antimicrobial Peptides	0.000007383	0.0005820	10.99	129.90
5. Gap Junction Assembly	0.000007972	0.0005820	21.36	250.71
6. Gap Junction Trafficking	0.00002931	0.001783	15.88	165.79
7. Gap Junction Trafficking and Regulation	0.00003948	0.002059	14.85	150.53
8. Apoptotic Cleavage of Cell Adhesion Proteins	0.00006528	0.002978	50.62	487.79
9. Synthesis of 12-Eicosatetraenoic Acid Derivatives	0.001145	0.04643	53.64	363.25
10. MyD88 MAL(TIRAP) Cascade Initiated on Plasma Membrane	0.001758	0.05526	6.19	39.26

Supplementary Table S10:

Name	P - value	Adjusted p-value	Odds Ratio	Combined score
1. Pancreatic Cancer Subtypes WP5390	2.429e-9	2.550e-7	27.90	553.45
2. Hair Follicle Development Cytodifferentiation Stage 3 Of 3 WP2840	0.0005003	0.02627	8.31	63.18
3. Calcium Regulation In Cardiac Cells WP536	0.0009824	0.03438	5.66	39.21
4. Lipid Particles Composition WP3601	0.002417	0.06345	33.52	201.95
5. Octadecanoid Formation from Linoleic Acid WP5324	0.003510	0.07223	26.81	151.54
6. Familial Hyperlipidemia Type 3 WP5110	0.004128	0.07223	24.37	133.80
7. P53 Transcriptional Gene Network WP4963	0.004903	0.07223	6.22	33.10
8. Familial Hyperlipidemia Type 5 WP5112	0.005503	0.07223	20.62	107.28
9. Familial Hyperlipidemia Type 2 WP5109	0.006258	0.07301	19.15	97.15

10. Metabolic Pathway of LDL, HDL And TG Including Diseases WP4522	0.007058	0.07411	17.87	88.52
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