

GW_037

Global Summary

%DE = 0.13
 # genes with fdr < 0.2 = 1521 (930 + / 591 -)
 # genes with fdr < 0.1 = 1261 (810 + / 451 -)
 # genes with fdr < 0.05 = 973 (666 + / 307 -)
 # genes with fdr < 0.01 = 676 (508 + / 168 -)

 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.12
 <fdr> = 0.87

Global Genelist

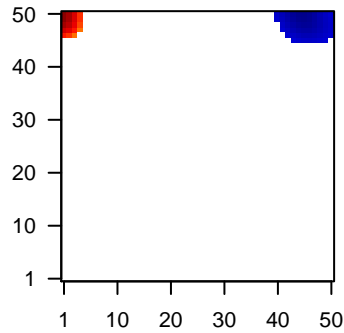
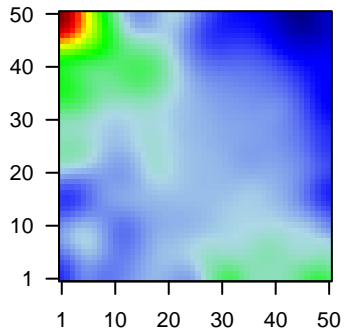
Rank	ID	log(FC)	fdr	p-value	Description
1	144568	1.92	2e-16	3e-14	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	79852	1.83	2e-16	3e-14	3 x 50 epoxide hydrolase 3 [Source:HGNC Symbol;Acc:23760]
3	220	1.79	2e-16	3e-14	4 x 46 aldehyde dehydrogenase 1 family, member A3 [Source:HGNC
4	242	1.95	2e-16	3e-14	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syn
5	360	2	2e-16	3e-14	1 x 50 aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:63
6	151516	2.31	2e-16	3e-14	1 x 46 aspartic peptidase, retroviral-like 1 [Source:HGNC Symbol;A
7	387695	2.12	2e-16	3e-14	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Symt
8	260436	-1.68	2e-16	3e-14	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
9	375791	2.08	2e-16	3e-14	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Symt
10	57172	2.02	2e-16	3e-14	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
11	55450	1.99	2e-16	3e-14	1 x 4 calcium/calmodulin-dependent protein kinase II inhibitor 1 [Si
12	6364	-1.86	2e-16	3e-14	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc
13	978	1.94	2e-16	3e-14	1 x 46 cytidine deaminase [Source:HGNC Symbol;Acc:1712]
14	1048	1.85	2e-16	3e-14	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [t
15	22802	2.13	2e-16	3e-14	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
16	9022	2.03	2e-16	3e-14	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2l
17	84518	2.1	2e-16	3e-14	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
18	51200	1.85	2e-16	3e-14	1 x 44 carboxypeptidase A4 [Source:HGNC Symbol;Acc:15740]
19	54544	2.65	2e-16	3e-14	1 x 50 cysteine-rich C-terminal 1 [Source:HGNC Symbol;Acc:2987
20	51755	2.03	2e-16	3e-14	49 x 1 cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:242

Global Geneset Analysis

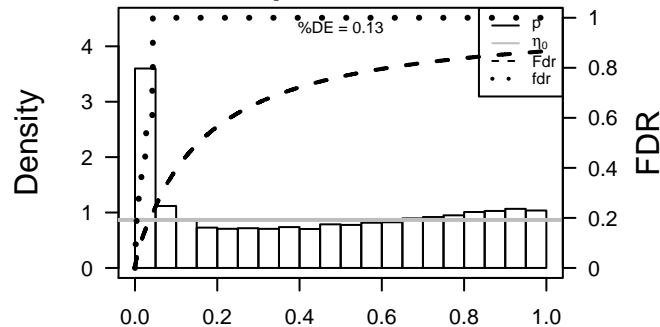
Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	34.09	NULL	135	H.Tiss WIRTH_Mucosa
2	22.62	NULL	572	Disease GUDJ_psooriasis up
3	17.1	NULL	21	CC cornified envelope
4	16.99	NULL	42	BP keratinization
5	16.33	NULL	53	BP keratinocyte differentiation
6	13.37	NULL	76	BP epidermis development
7	10.17	NULL	15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
8	9.98	NULL	122	MF serine-type endopeptidase activity
9	9.2	NULL	19	BP peptide cross-linking
10	9.14	NULL	44	CC keratin filament
11	8.69	NULL	4	MMML C2SCIEJ_MMML_23
12	8.66	NULL	15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
13	8.61	NULL	2659	CC plasma membrane
14	8.55	NULL	16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
15	8.52	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
16	8.37	NULL	1135	Chr Chr 19
17	8.22	NULL	82	CC intermediate filament
18	8.21	NULL	13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
19	8.14	NULL	16	GSEA C2CROMER_TUMORIGENESIS_DN
20	7.99	NULL	1182	CC extracellular region
<i>Underexpressed</i>				
1	-15.94	NULL	142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	-15.94	NULL	142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	-13.06	NULL	370	BP mitotic cell cycle
4	-10.62	NULL	949	CC nucleoplasm
5	-10.39	NULL	1233	TF KIM_MYC targets
6	-9.86	NULL	149	BP DNA replication
7	-9.2	NULL	4640	CC nucleus
8	-9.06	NULL	649	BP gene expression
9	-8.82	NULL	232	BP mitosis
10	-8.71	NULL	530	Cancer Lembecke_Normal vs Adenoma
11	-8.27	NULL	298	BP DNA repair
12	-8.08	NULL	57	Glio developing astrocytes
13	-8.08	NULL	595	MF RNA binding
14	-7.87	NULL	148	BP G1/S transition of mitotic cell cycle
15	-7.71	NULL	16	GSEA C2EGUCHI_CELL_CYCLE_RB1_TARGETS
16	-7.65	NULL	30	BP DNA strand elongation involved in DNA replication
17	-7.58	NULL	242	BP RNA metabolic process
18	-7.41	NULL	153	MF structural constituent of ribosome
19	-7.36	NULL	579	CC nucleolus
20	-7.17	NULL	16	GSEA C2FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL

Profile

Regulated Spots



p-values



GW_037

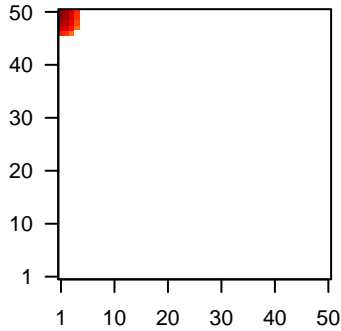
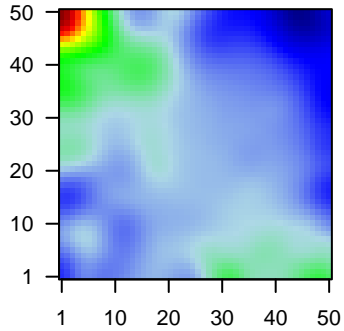
Local Summary

%DE = 0.99
 # metagenes = 19
 # genes = 245
 # genes in genesets = 238
 # genes with $fdr < 0.1 = 239$ (239 + / 0 -)
 # genes with $fdr < 0.05 = 236$ (236 + / 0 -)
 # genes with $fdr < 0.01 = 230$ (230 + / 0 -)

<r> metagenes = 0.96
 <r> genes = 0.45
 <FC> = 1.44
 <shrinkage-t> = 50.59
 <p-value> = 0
 <fdr> = 0.06

Profile

Spot



Local Genelist

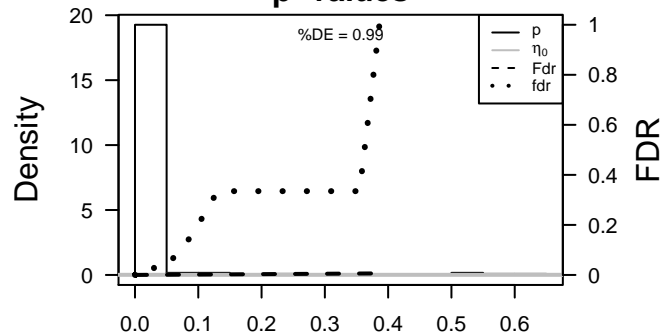
Rank	ID	log(FC)	fdr	p-value	Description
1	144568	1.92	2e-16	7e-18	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23760]
2	79852	1.83	2e-16	7e-18	3 x 50 epoxide hydrolase 3 [Source:HGNC Symbol;Acc:23760]
3	242	1.95	2e-16	7e-18	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syrn
4	360	2	2e-16	7e-18	1 x 50 aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:63
5	151516	2.31	2e-16	7e-18	1 x 46 aspartic peptidase, retroviral-like 1 [Source:HGNC Symbol;A
6	387695	2.12	2e-16	7e-18	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
7	375791	2.08	2e-16	7e-18	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
8	978	1.94	2e-16	7e-18	1 x 46 cytidine deaminase [Source:HGNC Symbol;Acc:1712]
9	1048	1.85	2e-16	7e-18	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
10	22802	2.13	2e-16	7e-18	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
11	9022	2.03	2e-16	7e-18	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2l
12	84518	2.1	2e-16	7e-18	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
13	54544	2.65	2e-16	7e-18	1 x 50 cysteine-rich C-terminal 1 [Source:HGNC Symbol;Acc:2987
14	49860	2.95	2e-16	7e-18	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
15	1474	1.94	2e-16	7e-18	1 x 47 cystatin E/M [Source:HGNC Symbol;Acc:2478]
16	126410	2.05	2e-16	7e-18	1 x 49 cytochrome P450, family 4, subfamily F, polypeptide 22 [Sour
17	55894	3.29	2e-16	7e-18	1 x 47 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
18	414325	3.54	2e-16	7e-18	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
19	1673	3	2e-16	7e-18	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
20	93099	2.24	2e-16	7e-18	1 x 47 dermokine [Source:HGNC Symbol;Acc:25063]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	59.14	NULL	90 / 135	H.Tiss WIRTH_Mucosa
2	34.88	NULL	19 / 21	CC cornified envelope
3	31.17	NULL	96 / 572	Disease GUDJ_pсориазис up
4	28.16	NULL	19 / 42	BP keratinization
5	28.13	NULL	25 / 53	BP keratinocyte differentiation
6	23.06	NULL	26 / 76	BP epidermis development
7	20.74	NULL	12 / 19	BP peptide cross-linking
8	19.31	NULL	7 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
9	15.97	NULL	7 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
10	15.05	NULL	6 / 13	BP negative regulation of peptidase activity
11	14.86	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
12	14.66	NULL	8 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
13	14.08	NULL	9 / 44	CC keratin filament
14	13.83	NULL	7 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
15	13.27	NULL	9 / 21	CC desmosome
16	12.75	NULL	22 / 186	MF structural molecule activity
17	12.7	NULL	13 / 82	CC intermediate filament
18	12.61	NULL	5 / 10	MF RAGE receptor binding
19	11.98	NULL	8 / 38	BP epithelial cell differentiation
20	11.87	NULL	58 / 1182	CC extracellular region
21	11.67	NULL	5 / 15	GSEA C2LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
22	11.63	NULL	13 / 122	MF serine-type endopeptidase activity
23	11.63	NULL	13 / 79	MF serine-type endopeptidase inhibitor activity
24	10.27	NULL	3 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
25	10.24	NULL	3 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
26	10.21	NULL	6 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
27	10.18	NULL	4 / 16	GSEA C2DAZARD_UV_RESPONSE_CLUSTER_G24
28	10.14	NULL	2 / 8	GSEA C2LIU_CDX2_TARGETS_DN
29	9.91	NULL	6 / 16	GSEA C2COLDREN_GEFITINIB_RESISTANCE_DN
30	9.79	NULL	4 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
31	9.75	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
32	9.71	NULL	4 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
33	9.66	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
34	9.44	NULL	4 / 16	GSEA C2HAHTOLA_MYCOSIS_FUNGOIDES_SKIN_DN
35	9.4	NULL	3 / 11	GSEA C2MURAKAMI_UV_RESPONSE_24HR
36	9.3	NULL	7 / 29	BP regulation of proteolysis
37	9.25	NULL	3 / 10	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_UP
38	9.08	NULL	5 / 23	MF peptidase inhibitor activity
39	8.98	NULL	4 / 14	GSEA C2KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP
40	8.85	NULL	5 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATEL

p-values



GW_037

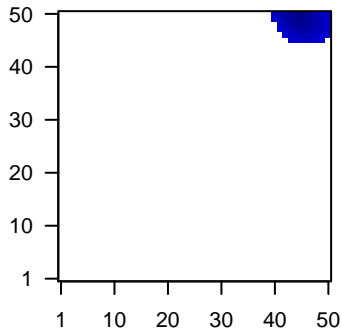
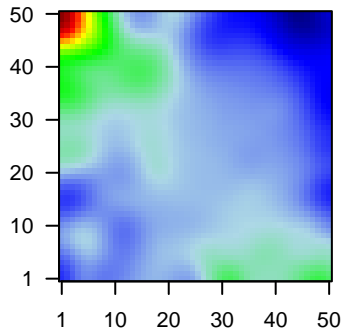
Local Summary

%DE = 0.91
 # metagenes = 58
 # genes = 735
 # genes in genesets = 730
 # genes with $fdr < 0.1$ = 584 (8 + / 576 -)
 # genes with $fdr < 0.05$ = 534 (6 + / 528 -)
 # genes with $fdr < 0.01$ = 329 (1 + / 328 -)

$\langle r \rangle$ metagenes = 0.84
 $\langle r \rangle$ genes = 0.25
 $\langle FC \rangle = -0.49$
 $\langle \text{shrinkage-t} \rangle = -17.29$
 $\langle p\text{-value} \rangle = 0.01$
 $\langle fdr \rangle = 0.5$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	4072	-1.66	2e-16	7e-15	50 x 50 epithelial cell adhesion molecule [Source:HGNC Symbol;Acc:31056]
2	3856	-2.21	2e-16	7e-15	50 x 48 keratin 8 pseudogene 3 [Source:HGNC Symbol;Acc:31056]
3	214	-1.46	6e-13	5e-11	50 x 50 activated leukocyte cell adhesion molecule [Source:HGNC Symbol;Acc:31056]
4	3880	-1.44	1e-12	1e-09	50 x 49 keratin 19 [Source:HGNC Symbol;Acc:6436]
5	139728	-1.36	2e-11	1e-09	49 x 49 pregnancy up-regulated nonubiquitous CaM kinase [Source:HGNC Symbol;Acc:31056]
6	216	-1.33	6e-11	1e-09	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC Symbol;Acc:31056]
7	4922	-1.32	7e-11	2e-09	50 x 50 neurotensin [Source:HGNC Symbol;Acc:8038]
8	7037	-1.2	1e-10	2e-09	47 x 50 transferrin receptor [Source:HGNC Symbol;Acc:11763]
9	7345	-1.3	1e-10	9e-09	50 x 46 ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase) [Source:HGNC Symbol;Acc:31056]
10	1894	-1.28	3e-10	2e-08	45 x 50 epithelial cell transforming sequence 2 oncogene [Source:HGNC Symbol;Acc:31056]
11	7153	-1.24	8e-10	2e-08	45 x 49 topoisomerase (DNA) II alpha 170kDa [Source:HGNC Symbol;Acc:31056]
12	9055	-1.24	9e-10	2e-07	45 x 49 protein regulator of cytokinesis 1 [Source:HGNC Symbol;Acc:31056]
13	875	-1.19	4e-09	6e-07	49 x 47 cystathionine-beta-synthase [Source:HGNC Symbol;Acc:15105]
14	200634	-1.15	1e-08	6e-07	50 x 49 keratinocyte associated protein 3 [Source:HGNC Symbol;Acc:31056]
15	4171	-1.13	2e-08	9e-07	46 x 48 minichromosome maintenance complex component 2 [Source:HGNC Symbol;Acc:31056]
16	29028	-1.1	5e-08	9e-07	44 x 50 ATPase family, AAA domain containing 2 [Source:HGNC Symbol;Acc:31056]
17	259266	-1.09	8e-08	9e-07	45 x 49 asp (abnormal spindle) homolog, microcephaly associated (D) [Source:HGNC Symbol;Acc:31056]
18	113130	-1.09	8e-08	9e-07	44 x 49 cell division cycle associated 5 [Source:HGNC Symbol;Acc:31056]
19	5984	-1.08	9e-08	9e-07	46 x 50 replication factor C (activator 1) 4, 37kDa [Source:HGNC Symbol;Acc:31056]
20	84223	-1.08	1e-07	9e-07	47 x 46 IQ motif containing G [Source:HGNC Symbol;Acc:25251]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-44.61	NULL	97 / 142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	-44.61	NULL	97 / 142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	-27.89	NULL	122 / 370	BP mitotic cell cycle
4	-24.16	NULL	16 / 16	GSEA C2EGUCHI_CELL_CYCLE_RB1_TARGETS
5	-22.26	NULL	26 / 57	Glio developing astrocytes
6	-21.5	NULL	125 / 530	Cancer Lembecke_Normal vs Adenoma
7	-21.4	NULL	13 / 14	MMML C6SCIEJ_MMML 4
8	-21.2	NULL	15 / 16	GSEA C2FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL
9	-21.02	NULL	13 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_2
10	-20.59	NULL	53 / 149	BP DNA replication
11	-20.23	NULL	19 / 30	BP DNA strand elongation involved in DNA replication
12	-20.2	NULL	9 / 10	GSEA C2MONTERO_THYROID_CANCER_POOR_SURVIVAL_UP
13	-19.81	NULL	14 / 15	GSEA C2FINETTI_BREAST_CANCER_KINOME_RED
14	-18.81	NULL	12 / 13	GSEA C2CROONQUIST_IL6_DEPRIVATION_DN
15	-18.02	NULL	9 / 11	GSEA C2KALMA_E2F1_TARGETS
16	-17.71	NULL	63 / 232	BP mitosis
17	-17.65	NULL	11 / 14	GSEA C2ZHAN_MULTIPLE_MYELOMA_PR_UP
18	-17.39	NULL	8 / 11	GSEA C2REACTOME_UNWINDING_OF_DNA
19	-16.85	NULL	11 / 16	GSEA C2REACTOME_G2_M_CHECKPOINTS
20	-16.85	NULL	12 / 16	GSEA C2REACTOME_DNA_STRAND_ELONGATION
21	-16.8	NULL	10 / 15	GSEA C2LEE_EARLY_T_LYMPHOCYTE_UP
22	-16.61	NULL	11 / 15	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
23	-16.59	NULL	11 / 16	Cancer WOLFER_overlap genes
24	-16.53	NULL	11 / 14	GSEA C2ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
25	-16.52	NULL	141 / 949	CC nucleoplasm
26	-16.35	NULL	10 / 15	GSEA C2WU_APOPTOSIS_BY_CDKN1A_VIA_TP53
27	-16.05	NULL	10 / 15	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_DN
28	-16.04	NULL	41 / 148	BP G1/S transition of mitotic cell cycle
29	-15.92	NULL	12 / 16	GSEA C2KANG_DOXORUBICIN_RESISTANCE_UP
30	-15.67	NULL	9 / 11	GSEA C2JIANG_SILENCED_BY_METHYLATION_DN
31	-15.4	NULL	13 / 18	BP spindle organization
32	-15.07	NULL	12 / 16	GSEA C2CROONQUIST_NRAS_SIGNALING_DN
33	-14.94	NULL	13 / 22	BP DNA replication initiation
34	-14.79	NULL	12 / 15	GSEA C2ZHANG_CYCLING_GENES
35	-14.66	NULL	11 / 16	GSEA C2SONG_TARGETS_OF_IE86_CMV_PROTEIN
36	-14.49	NULL	11 / 16	GSEA C2GRAHAM_NORMAL QUIESCENT_VS_NORMAL_DIVIDING_DN
37	-14.29	NULL	10 / 16	GSEA C2PUJANA_BREAST_CANCER_WITH_BRCA1_MUTATED_UP
38	-14.27	NULL	12 / 16	GSEA C2SCIAN_CELL_CYCLE_TARGETS_OF_TP53_AND_TP73_DN
39	-14.19	NULL	8 / 11	GSEA C2ODONNELL_TFRC_TARGETS_DN
40	-14.13	NULL	8 / 14	GSEA C2AMUNDSON_GAMMA_RADIATION_RESPONSE

