

GW_307

Global Summary

%DE = 0.14
 # genes with $fdr < 0.2$ = 1874 (1086 + / 788 -)
 # genes with $fdr < 0.1$ = 1449 (893 + / 556 -)
 # genes with $fdr < 0.05$ = 1235 (802 + / 433 -)
 # genes with $fdr < 0.01$ = 833 (585 + / 248 -)

 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.1
 <fdr> = 0.86

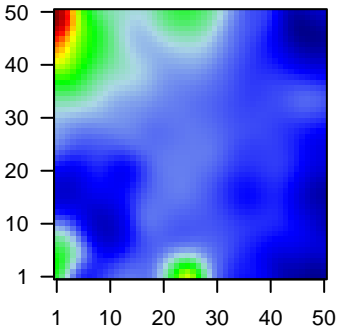
Global Genelist

Rank	ID	log(FC)	fdr p-value	Description Metagene
1	58	4.11	2e-16 3e-14 25 x 1	actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
2	70	3.28	2e-16 3e-14 25 x 1	actin, alpha, cardiac muscle 1 [Source:HGNC Symbol;Acc:14
3	131	1.54	2e-16 3e-14 1 x 50	alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
4	56895	1.43	2e-16 3e-14 2 x 5	1-acylglycerol-3-phosphate O-acyltransferase 4 [Source:HC
5	57016	1.36	2e-16 3e-14 1 x 50	aldo-keto reductase family 1, member B10 (aldose reductase
6	242	1.66	2e-16 3e-14 1 x 48	arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syrr
7	445328	-2.16	2e-16 3e-14 4 x 46	Rho guanine nucleotide exchange factor (GEF) 35 [Source:H
8	140458	1.4	2e-16 3e-14 25 x 1	ankyrin repeat and SOCS box containing 5 [Source:HGNC S
9	650	1.37	2e-16 3e-14 1 x 4	bone morphogenetic protein 2 [Source:HGNC Symbol;Acc:10
10	387695	1.85	2e-16 3e-14 1 x 49	chromosome 10 open reading frame 99 [Source:HGNC Symt
11	148304	1.6	2e-16 3e-14 1 x 41	chromosome 1 open reading frame 74 [Source:HGNC Symbc
12	260436	1.94	2e-16 3e-14 50 x 1	follicular dendritic cell secreted protein [Source:HGNC Symbc
13	375791	1.78	2e-16 3e-14 1 x 50	chromosome 9 open reading frame 169 [Source:HGNC Symt
14	51806	1.78	2e-16 3e-14 4 x 50	calmodulin-like 5 [Source:HGNC Symbol;Acc:18180]
15	845	1.35	2e-16 3e-14 25 x 1	calsequestrin 2 (cardiac muscle) [Source:HGNC Symbol;Acc:
16	978	1.7	2e-16 3e-14 1 x 46	cytidine deaminase [Source:HGNC Symbol;Acc:1712]
17	1158	2.84	2e-16 3e-14 25 x 1	creatine kinase, muscle [Source:HGNC Symbol;Acc:1994]
18	202333	1.41	2e-16 3e-14 25 x 1	cardiomyopathy associated 5 [Source:HGNC Symbol;Acc:14
19	84518	1.49	2e-16 3e-14 1 x 50	cornifelin [Source:HGNC Symbol;Acc:30183]
20	49860	2.61	2e-16 3e-14 1 x 50	cornulin [Source:HGNC Symbol;Acc:1230]

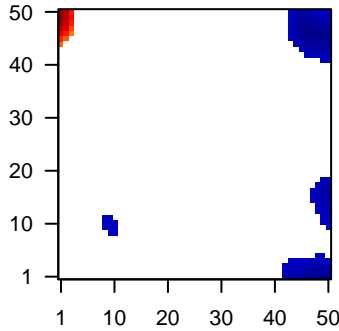
Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	29.04	NULL	135	H.Tiss WIRTH_Mucosa
2	19.89	NULL	572	Disease GUDJ_psooriasis up
3	18.6	NULL	127	H.Tiss WIRTH_Muscle
4	17.69	NULL	36	BP muscle filament sliding
5	17.05	NULL	21	CC cornified envelope
6	16.21	NULL	42	BP keratinization
7	15.86	NULL	53	BP keratinocyte differentiation
8	15.72	NULL	76	BP epidermis development
9	15.54	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
10	15.06	NULL	16	H.Tiss WIRTH_Hippocampus
11	12.75	NULL	44	MF structural constituent of muscle
12	11.93	NULL	19	BP peptide cross-linking
13	11.29	NULL	12	CC myosin filament
14	10.89	NULL	37	CC sarcomere
15	10.51	NULL	14	CC contractile fiber
16	9.52	NULL	84	BP muscle contraction
17	9.37	NULL	88	CC Z disc
18	8.91	NULL	15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
19	8.82	NULL	1182	CC extracellular region
20	8.75	NULL	13	CC muscle myosin complex
<i>Underexpressed</i>				
1	-11.88	NULL	142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	-11.88	NULL	142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	-7.58	NULL	1749	MF DNA binding
4	-7.28	NULL	149	BP DNA replication
5	-7.27	NULL	940	MF nucleic acid binding
6	-7.16	NULL	743	Chr 7 Chr 7
7	-6.57	NULL	949	CC nucleoplasm
8	-6.49	NULL	370	BP mitotic cell cycle
9	-6.3	NULL	1574	BP transcription, DNA-templated
10	-6.24	NULL	417	H.Tiss WIRTH_Immune system
11	-6.19	NULL	649	BP gene expression
12	-6.16	NULL	755	Lymphonoma SPANG_BCR UP
13	-6.09	NULL	30	BP DNA strand elongation involved in DNA replication
14	-6.08	NULL	4640	CC nucleus
15	-6.02	NULL	1581	BP regulation of transcription, DNA-dependent
16	-5.84	NULL	595	MF RNA binding
17	-5.8	NULL	298	BP DNA repair
18	-5.73	NULL	16	GSEA C2EGUCHI_CELL_CYCLE_RB1_TARGETS
19	-5.71	NULL	386	Chr Chr 22
20	-5.7	NULL	1318	CC mitochondrion

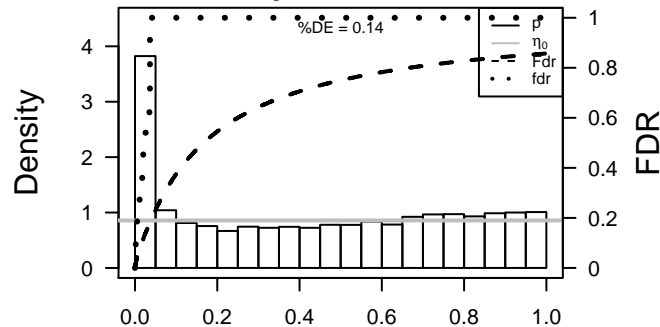
Profile



Regulated Spots



p-values



GW_307

Local Summary

%DE = 0.89
 # metagenes = 18
 # genes = 260
 # genes in genesets = 254

genes with $fdr < 0.1 = 226$ (221 + / 5 -)
 # genes with $fdr < 0.05 = 222$ (217 + / 5 -)
 # genes with $fdr < 0.01 = 197$ (195 + / 2 -)

<r> metagenes = 0.93
 <r> genes = 0.42

<FC> = 0.89
 <shrinkage-t> = 31.26
 <p-value> = 0
 <fdr> = 0.18

Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	131	1.54	2e-16	1e-16	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
2	57016	1.36	2e-16	1e-16	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
3	242	1.66	2e-16	1e-16	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syrr
4	387695	1.85	2e-16	1e-16	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Symt
5	375791	1.78	2e-16	1e-16	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Symt
6	978	1.7	2e-16	1e-16	1 x 46 cytidine deaminase [Source:HGNC Symbol;Acc:1712]
7	84518	1.49	2e-16	1e-16	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
8	49860	2.61	2e-16	1e-16	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
9	1475	1.38	2e-16	1e-16	1 x 50 cystatin A (stefin A) [Source:HGNC Symbol;Acc:2481]
10	55894	2.08	2e-16	1e-16	1 x 47 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
11	414325	2.44	2e-16	1e-16	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
12	1673	1.96	2e-16	1e-16	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
13	1824	1.33	2e-16	1e-16	1 x 48 desmocollin 2 [Source:HGNC Symbol;Acc:3036]
14	1828	2.16	2e-16	1e-16	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
15	1830	1.37	2e-16	1e-16	1 x 48 desmoglein 3 [Source:HGNC Symbol;Acc:3050]
16	2167	2.46	2e-16	1e-16	1 x 44 fatty acid binding protein 4, adipocyte [Source:HGNC Symbol
17	10804	1.59	2e-16	1e-16	1 x 47 gap junction protein, beta 6, 30kDa [Source:HGNC Symbol;A
18	26525	1.61	2e-16	1e-16	1 x 49 interleukin 36 receptor antagonist [Source:HGNC Symbol;Acc
19	56300	1.75	2e-16	1e-16	1 x 47 interleukin 36, gamma [Source:HGNC Symbol;Acc:15741]
20	43849	1.53	2e-16	1e-16	1 x 50 kallikrein-related peptidase 12 [Source:HGNC Symbol;Acc:6:

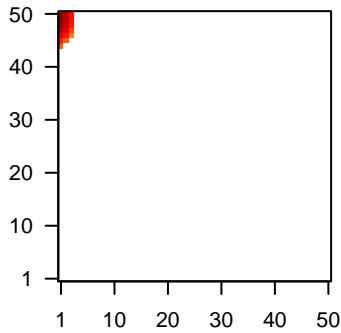
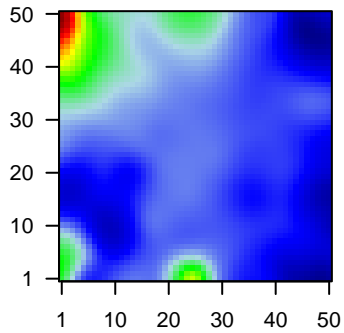
Local Geneset Analysis

Overexpression

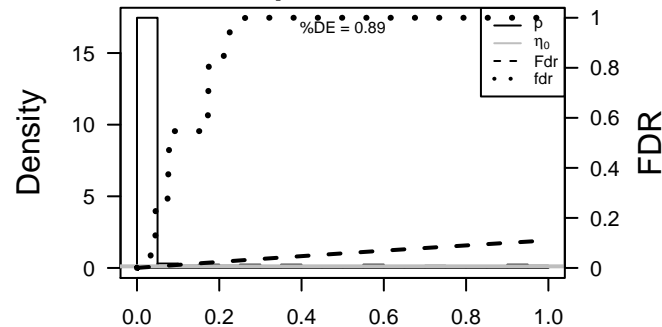
Rank	GSZ	p-value	#in/all	Geneset
1	54.82	NULL	85 / 135	H.Tiss WIRTH_Mucosa
2	39.85	NULL	18 / 21	CC cornified envelope
3	34.88	NULL	19 / 42	BP keratinization
4	33.27	NULL	24 / 53	BP keratinocyte differentiation
5	31.24	NULL	102 / 572	Disease GUUDJ_psooriasis up
6	25.91	NULL	24 / 76	BP epidermis development
7	24.44	NULL	10 / 19	BP peptide cross-linking
8	16.35	NULL	12 / 21	CC desmosome
9	15.18	NULL	6 / 16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
10	14.99	NULL	3 / 8	GSEA C2LIU_CDX2_TARGETS_DN
11	14.18	NULL	6 / 13	BP negative regulation of peptidase activity
12	13.4	NULL	9 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
13	13.33	NULL	12 / 44	CC keratin filament
14	12.83	NULL	13 / 79	MF serine-type endopeptidase inhibitor activity
15	12.51	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
16	12.39	NULL	26 / 186	MF structural molecule activity
17	11.94	NULL	5 / 10	MF RAGE receptor binding
18	11.92	NULL	8 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
19	11.87	NULL	7 / 29	BP regulation of proteolysis
20	11.76	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
21	11.56	NULL	10 / 52	BP negative regulation of endopeptidase activity
22	11.47	NULL	3 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
23	11.46	NULL	19 / 82	CC intermediate filament
24	11.28	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
25	11.16	NULL	4 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
26	11.09	NULL	8 / 15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
27	10.86	NULL	61 / 1182	CC extracellular region
28	10.69	NULL	3 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
29	10.26	NULL	3 / 16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
30	10.12	NULL	6 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATE
31	9.83	NULL	4 / 15	GSEA C2CHANG_IMMORTALIZED_BY_HPV31_DN
32	9.35	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
33	9.06	NULL	13 / 122	MF serine-type endopeptidase activity
34	8.93	NULL	3 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
35	8.86	NULL	3 / 11	GSEA C2MURAKAMI_UV_RESPONSE_6HR_DN
36	8.75	NULL	5 / 16	GSEA C2JAEGER_METASTASIS_DN
37	8.54	NULL	5 / 15	GSEA C2AIGNER_ZEB1_TARGETS
38	8.04	NULL	4 / 10	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_UP
39	7.94	NULL	3 / 12	GSEA C2REACTOME_GAP_JUNCTION_ASSEMBLY
40	7.78	NULL	4 / 16	GSEA C2DAZARD_UV_RESPONSE_CLUSTER_G24

Profile

Spot



p-values



GW_307

Local Summary

%DE = 0.73
 # metagenes = 37
 # genes = 480
 # genes in genesets = 475

 # genes with $fdr < 0.1$ = 248 (15 + / 233 -)
 # genes with $fdr < 0.05$ = 153 (11 + / 142 -)
 # genes with $fdr < 0.01$ = 87 (9 + / 78 -)

 $\langle r \rangle$ metagenes = 0.94
 $\langle r \rangle$ genes = 0.49

 $\langle FC \rangle = -0.26$
 $\langle \text{shrinkage-t} \rangle = -9.13$
 $\langle p\text{-value} \rangle = 0.02$
 $\langle fdr \rangle = 0.68$

Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	260436	1.94	2e-16	3e-14	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
2	10628	-1.27	4e-16	2e-11	48 x 1 thioredoxin interacting protein [Source:HGNC Symbol;Acc:16
3	9404	1.17	2e-13	8e-11	50 x 1 leupaxin [Source:HGNC Symbol;Acc:14061]
4	23231	-1.14	8e-13	2e-10	48 x 2 sel-1 suppressor of lin-12-like 3 (C. elegans) [Source:HGNC
5	57172	-1.12	2e-12	4e-09	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
6	81618	-1.05	4e-11	4e-09	48 x 5 integral membrane protein 2C [Source:HGNC Symbol;Acc:61
7	1116	1.04	7e-11	7e-09	50 x 4 chitinase 3-like 1 (cartilage glycoprotein-39) [Source:HGNC
8	84446	-1.03	1e-10	5e-08	43 x 1 BR serine/threonine kinase 1 [Source:HGNC Symbol;Acc:18
9	1117	0.99	6e-10	5e-08	48 x 4 chitinase 3-like 2 [Source:HGNC Symbol;Acc:1933]
10	91607	-0.96	1e-09	5e-08	48 x 4 schlafen family member 11 [Source:HGNC Symbol;Acc:2663:
11	54855	-0.96	2e-09	5e-08	49 x 1 family with sequence similarity 46, member C [Source:HGNC
12	51755	-0.96	2e-09	1e-07	49 x 1 cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:242:
13	3120	0.94	3e-09	1e-07	47 x 1 major histocompatibility complex, class II, DQ beta 2 [Source:
14	3512	-0.94	4e-09	1e-07	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglobu
15	6363	-0.93	5e-09	2e-06	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc
16	3543	-0.82	2e-08	4e-06	49 x 1 immunoglobulin lambda-like polypeptide 1 [Source:HGNC Sy
17	3123	0.87	5e-08	1e-05	45 x 1 major histocompatibility complex, class II, DR beta 1 [Source:
18	374882	-0.82	2e-07	1e-05	42 x 1 transmembrane protein 205 [Source:HGNC Symbol;Acc:296:
19	11040	-0.81	3e-07	1e-05	49 x 1 pim-2 oncogene [Source:HGNC Symbol;Acc:8987]
20	91353	-0.81	4e-07	2e-05	48 x 1

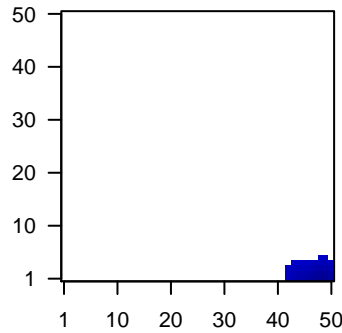
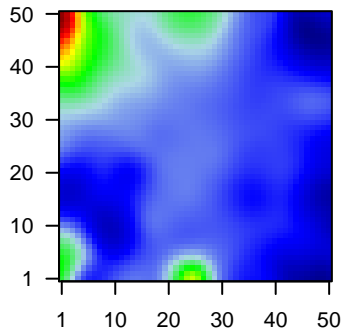
Local Geneset Analysis

Underexpression

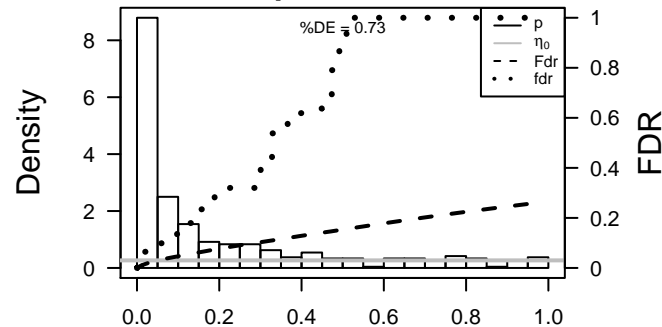
Rank	GSZ	p-value	#in/all	Geneset
1	-20.61	NULL	124 / 417	H.Tiss WIRTH_Immune system
2	-14.79	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
3	-14.45	NULL	124 / 553	Cancer Lembecke_Colonc Inflammation
4	-13.47	NULL	73 / 312	BP immune response
5	-12.49	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
6	-12.02	NULL	8 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
7	-11.58	NULL	8 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
8	-10.84	NULL	9 / 14	GSEA C2BIOCARTA_NO2IL12_PATHWAY
9	-10.61	NULL	14 / 28	BP B cell receptor signaling pathway
10	-10.52	NULL	6 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HGA
11	-10.13	NULL	5 / 11	GSEA C2APPEL_IMATINIB_RESPONSE
12	-9.98	NULL	7 / 13	MMML C6CIEJ_MMML 6
13	-9.98	NULL	31 / 162	CC external side of plasma membrane
14	-9.6	NULL	5 / 12	BP dendritic cell chemotaxis
15	-9.59	NULL	41 / 327	Lymphoma SPANG_CD40 6hrs UP
16	-9.56	NULL	19 / 74	BP regulation of immune response
17	-9.45	NULL	5 / 12	BP immunoglobulin mediated immune response
18	-9.38	NULL	5 / 12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN
19	-9.3	NULL	10 / 13	Cancer GENTLES_modul18
20	-8.6	NULL	7 / 16	Lymphoma WRIGHT_ABC UP
21	-8.58	NULL	7 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
22	-8.53	NULL	24 / 60	BP T cell costimulation
23	-8.45	NULL	4 / 13	GSEA C2HAHTOLA_MYCOSIS_FUNGOIDES_DN
24	-8.39	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
25	-8.21	NULL	7 / 14	GSEA C2FINETTI_BREAST_CANCER_KINOME_GREEN
26	-8.13	NULL	3 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
27	-8.04	NULL	6 / 8	GSEA C2BIOCARTA_TCR_PATHWAY
28	-8.01	NULL	11 / 43	BP positive regulation of T cell proliferation
29	-8.01	NULL	7 / 15	Glio Donson-chemokines/cytokines-associated with LTS in HGA
30	-8.01	NULL	7 / 13	GSEA C2BIOCARTA_IL17_PATHWAY
31	-7.98	NULL	3 / 14	GSEA C2WINNEPENNINGKX_MELANOMA_METASTASIS_DN
32	-7.97	NULL	9 / 16	GSEA C2SU_THYMUS
33	-7.96	NULL	5 / 10	GSEA C2LEE_EARLY_T_LYMPHOCYTE_DN
34	-7.81	NULL	13 / 45	BP T cell activation
35	-7.76	NULL	4 / 7	Glio Donson-cytotoxic effectors-associated with LTS in HGA
36	-7.67	NULL	57 / 265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
37	-7.67	NULL	57 / 265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
38	-7.67	NULL	57 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
39	-7.67	NULL	57 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
40	-7.64	NULL	4 / 11	GSEA C2CHAUHAN_RESPONSE_TO_METHOXYESTRADIOL_DN

Profile

Spot



p-values



GW_307

Local Summary

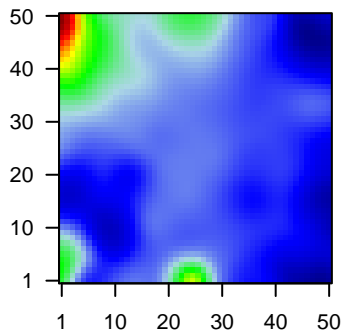
%DE = 0.66
 # metagenes = 10
 # genes = 87
 # genes in genesets = 86

genes with $fdr < 0.1$ = 42 (0 + / 42 -)
 # genes with $fdr < 0.05$ = 36 (0 + / 36 -)
 # genes with $fdr < 0.01$ = 11 (0 + / 11 -)

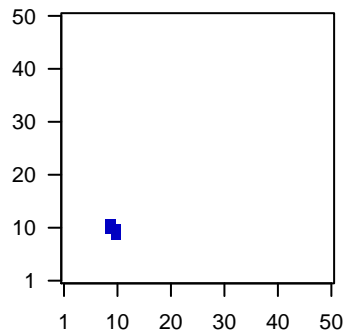
$\langle r \rangle$ metagenes = 0.97
 $\langle r \rangle$ genes = 0.31

$\langle FC \rangle = -0.29$
 $\langle \text{shrinkage-t} \rangle = -9.99$
 $\langle p\text{-value} \rangle = 0.03$
 $\langle fdr \rangle = 0.65$

Profile



Spot



Local Genelist

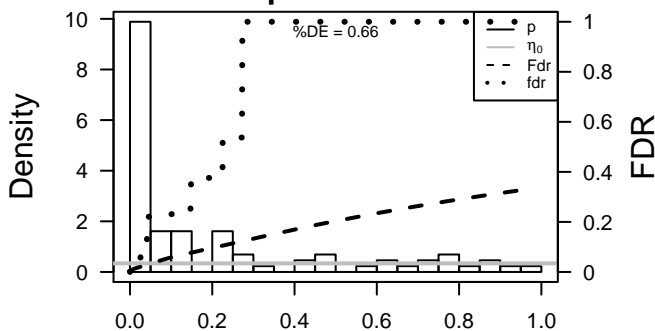
Rank	ID	log(FC)	fdr	p-value	Description
1	51477	-0.81	4e-07	2e-04	10 x 10 inositol-3-phosphate synthase 1 [Source:HGNC Symbol;Acc:1517]
2	100101267	-0.7	1e-05	2e-04	11 x 11 POM121 transmembrane nucleoporin C [Source:HGNC Syml
3	51593	-0.69	1e-05	2e-04	10 x 12 serrate RNA effector molecule homolog (Arabidopsis) [Source
4	57414	-0.68	2e-05	3e-03	9 x 10 rhomboid domain containing 2 [Source:HGNC Symbol;Acc:22
5	100170841	-0.61	1e-04	5e-03	10 x 10 chromosome 17 open reading frame 96 [Source:HGNC Syml
6	55258	-0.56	4e-04	5e-03	11 x 9 threonine synthase-like 2 (S. cerevisiae) [Source:HGNC Syrr
7	64132	-0.55	6e-04	5e-03	10 x 9 xylosyltransferase II [Source:HGNC Symbol;Acc:15517]
8	23338	-0.54	7e-04	5e-03	10 x 12 jade family PHD finger 2 [Source:HGNC Symbol;Acc:22984]
9	2026	-0.53	8e-04	5e-03	10 x 10 enolase 2 (gamma, neuronal) [Source:HGNC Symbol;Acc:33
10	64847	-0.53	9e-04	6e-03	10 x 9 spermatogenesis associated 20 [Source:HGNC Symbol;Acc:
11	56996	-0.51	1e-03	6e-03	10 x 11 solute carrier family 12, member 9 [Source:HGNC Symbol;Ac
12	6722	-0.51	1e-03	1e-02	9 x 12 serum response factor (c-fos serum response element-bindin
13	11000	-0.5	2e-03	2e-02	9 x 11 solute carrier family 27 (fatty acid transporter), member 3 [So
14	84939	-0.47	3e-03	2e-02	10 x 11 melanoma associated antigen (mutated) 1 [Source:HGNC Sy
15	5871	-0.46	4e-03	2e-02	10 x 10 mitogen-activated protein kinase kinase kinase kinase 2 [So
16	10898	-0.45	5e-03	2e-02	10 x 12 cleavage and polyadenylation specific factor 4, 30kDa [Source
17	114049	-0.44	5e-03	2e-02	11 x 10 Williams Beuren syndrome chromosome region 22 [Source:H
18	2648	-0.43	7e-03	2e-02	11 x 11 K(lysine) acetyltransferase 2A [Source:HGNC Symbol;Acc:42
19	10985	-0.42	8e-03	2e-02	9 x 11 GCN1 general control of amino-acid synthesis 1-like 1 (yeas
20	57176	-0.42	8e-03	2e-02	9 x 11 Valine--tRNA ligase, mitochondrial [Source:UniProtKB/TrEM

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-10.57	NULL	1 / 4	miRNA target set 122
2	-9.98	NULL	2 / 15	GSEA C2BIOCARTA_MAL_PATHWAY
3	-8.78	NULL	1 / 10	GSEA C2KIM_WT1_TARGETS_8HR_DN
4	-8.33	NULL	1 / 11	BP neuronal stem cell maintenance
5	-8.24	NULL	1 / 15	GSEA C2KEGG_INOSITOL_PHOSPHATE_METABOLISM
6	-7.95	NULL	1 / 12	BP response to arsenic-containing substance
7	-7.95	NULL	1 / 12	MMML C69CIEJ_MMML_24
8	-7.95	NULL	1 / 12	GSEA C2YAGI_AML_WITH_T_9_11_TRANSLOCATION
9	-7.61	NULL	1 / 13	GSEA C2COLDREN_GEFITINIB_RESISTANCE_UP
10	-7.61	NULL	1 / 13	GSEA C2PENG_GlutAMINE_DEPRIVATION_DN
11	-7.61	NULL	1 / 13	GSEA C2BONOME_OVARIAN_CANCER_POOR_SURVIVAL_DN
12	-7.61	NULL	1 / 13	GSEA C2WALLACE_JAK2_TARGETS_UP
13	-7.36	NULL	3 / 41	miRNA target set 552-3p
14	-7.36	NULL	2 / 15	MF acetylglucosaminyltransferase activity
15	-7.29	NULL	2 / 16	GSEA C2COLLIS_PRKDC_SUBSTRATES
16	-7.25	NULL	1 / 8	GSEA C2EMELYANOV_GR_TARGETS_DN
17	-7.18	NULL	2 / 12	BP long term synaptic depression
18	-7.04	NULL	1 / 15	GSEA C2DIRMEIER_LMP1_RESPONSE_LATE_UP
19	-6.9	NULL	2 / 22	MF N-acetyltransferase activity
20	-6.79	NULL	1 / 16	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_MODERATELY_VS_POO
21	-6.79	NULL	1 / 16	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_MODERATELY_VS_POO
22	-6.66	NULL	2 / 42	BP inositol phosphate metabolic process
23	-6.56	NULL	1 / 8	GSEA C2BIOCARTA_STRESS_PATHWAY
24	-6.41	NULL	1 / 10	BP eyelid development in camera-type eye
25	-6.41	NULL	1 / 10	BP megakaryocyte development
26	-6.41	NULL	1 / 10	BP RNA polymerase II transcription factor binding transcription factor
27	-6.41	NULL	1 / 10	MF stress fiber assembly
28	-6.41	NULL	1 / 10	GSEA C2MARTIN_INTERACT_WITH_HDAC
29	-6.25	NULL	1 / 12	BP heparan sulfate proteoglycan biosynthetic process
30	-6.2	NULL	2 / 30	miRNA target set 137
31	-6.11	NULL	3 / 40	BP histone H3 acetylation
32	-5.98	NULL	3 / 55	miRNA target set 296
33	-5.8	NULL	1 / 12	BP mRNA transcription from RNA polymerase II promoter
34	-5.8	NULL	1 / 12	BP platelet formation
35	-5.8	NULL	1 / 12	miRNA target set 1249
36	-5.77	NULL	1 / 13	GSEA C2REACTOME_GLYCOLYSIS
37	-5.72	NULL	1 / 29	BP phospholipid biosynthetic process
38	-5.7	NULL	2 / 18	miRNA target set 554
39	-5.55	NULL	1 / 13	BP cell migration involved in sprouting angiogenesis
40	-5.55	NULL	1 / 13	BP positive regulation of smooth muscle contraction

p-values



GW_307

Local Summary

%DE = 0.73
 # metagenes = 28
 # genes = 361
 # genes in genesets = 359

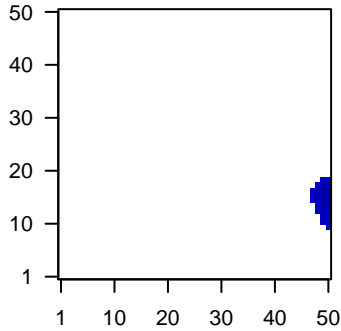
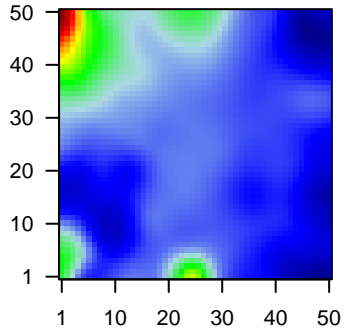
 # genes with $fdr < 0.1 = 160$ (12 + / 148 -)
 # genes with $fdr < 0.05 = 146$ (11 + / 135 -)
 # genes with $fdr < 0.01 = 77$ (7 + / 70 -)

 $\langle r \rangle$ metagenes = 0.89
 $\langle r \rangle$ genes = 0.24

 $\langle FC \rangle = -0.26$
 $\langle \text{shrinkage-t} \rangle = -9.15$
 $\langle p\text{-value} \rangle = 0.01$
 $\langle fdr \rangle = 0.62$

Profile

Spot



Local Genelist

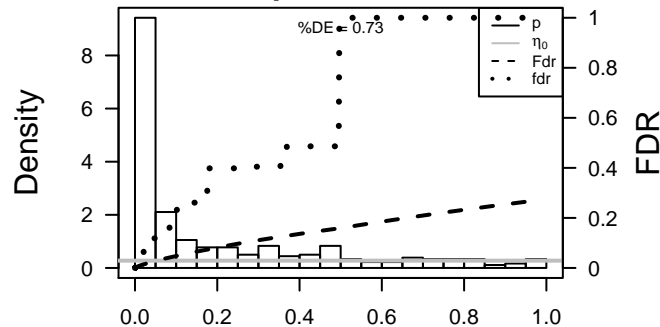
Rank	ID	log(FC)	fdr	p-value	Description
1	728715	1.13	1e-12	2e-09	50 x 18
2	51316	-1.06	3e-11	4e-09	50 x 13 placenta-specific 8 [Source:HGNC Symbol;Acc:19254]
3	29116	-1.04	7e-11	1e-07	50 x 14 myosin regulatory light chain interacting protein [Source:HGNC]
4	113246	-0.97	1e-09	1e-07	49 x 16 chromosome 12 open reading frame 57 [Source:HGNC Symt]
5	2762	-0.94	4e-09	1e-07	50 x 12 GDP-mannose 4,6-dehydratase [Source:HGNC Symbol;Acc]
6	5382	-0.94	4e-09	2e-07	48 x 15 postmeiotic segregation increased 2 pseudogene 4 [Source:HGNC]
7	9071	-0.93	6e-09	1e-06	50 x 12 claudin 10 [Source:HGNC Symbol;Acc:2033]
8	498	-0.81	3e-08	1e-06	48 x 15 ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit
9	92747	-0.89	3e-08	1e-06	50 x 10 BPI fold containing family B, member 1 [Source:HGNC Symbol;Acc:14360]
10	79191	0.88	4e-08	1e-06	50 x 15 iroquois homeobox 3 [Source:HGNC Symbol;Acc:14360]
11	10551	-0.87	5e-08	1e-06	50 x 10 anterior gradient 2 [Source:HGNC Symbol;Acc:328]
12	26018	-0.86	7e-08	1e-06	50 x 16 leucine-rich repeats and immunoglobulin-like domains 1 [Source:HGNC Symbol;Acc:24550]
13	155066	-0.85	8e-08	3e-06	50 x 15 ATPase, H+ transporting V0 subunit e2 [Source:HGNC Symbol;Acc:7604]
14	2205	0.84	1e-07	3e-06	50 x 13 Fc fragment of IgE, high affinity I, receptor for; alpha polypept
15	25840	-0.84	2e-07	3e-06	50 x 11 methyltransferase like 7A [Source:HGNC Symbol;Acc:24550]
16	55930	-0.83	2e-07	5e-06	50 x 13 myosin VC [Source:HGNC Symbol;Acc:7604]
17	54102	-0.81	3e-07	5e-06	50 x 10 chloride intracellular channel 6 [Source:HGNC Symbol;Acc:21155]
18	9603	-0.81	4e-07	5e-06	50 x 18 nuclear factor, erythroid 2-like 3 [Source:HGNC Symbol;Acc:115]
19	79762	-0.81	4e-07	5e-06	50 x 15 chromosome 1 open reading frame 115 [Source:HGNC Symt]
20	79085	-0.81	4e-07	5e-05	50 x 13 solute carrier family 25 (mitochondrial carrier; phosphate carrier)

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-15.83	NULL	11 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
2	-10.94	NULL	3 / 7	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_DN
3	-7.7	NULL	3 / 14	GSEA C2VANTVEER_BREAST_CANCER_METASTASIS_UP
4	-7.55	NULL	3 / 13	GSEA C2WONG_ENDMETRIUM_CANCER_UP
5	-7.54	NULL	3 / 16	GSEA C2DOANE_BREAST_CANCER_ESR1_DN
6	-7.39	NULL	4 / 15	GSEA C2DOANE_BREAST_CANCER_CLASSES_UP
7	-7.23	NULL	3 / 7	GSEA C2LOPEZ_MESOTHELIOMA_SURVIVAL_OVERALL_UP
8	-7.16	NULL	2 / 9	GSEA C2MONTERO_THYROID_CANCER_POOR_SURVIVAL_DN
9	-7.04	NULL	1 / 3	miRNA target-210
10	-6.97	NULL	3 / 14	GSEA C2LIEN_BREAST_CARCINOMA_METAPLASTIC_VS_DUCTAL_DN
11	-6.93	NULL	3 / 15	GSEA C2GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_E
12	-6.81	NULL	4 / 16	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR
13	-6.81	NULL	4 / 12	GSEA C2PROVENZANI_METASTASIS_UP
14	-6.71	NULL	4 / 16	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_T
15	-6.33	NULL	2 / 16	GSEA C2KORKOLA_TERATOMA_UP
16	-5.75	NULL	2 / 12	BP negative regulation of axon extension
17	-5.57	NULL	1 / 3	miRNA target-148a
18	-5.54	NULL	2 / 12	CC apical junction complex
19	-5.54	NULL	6 / 15	GSEA C2POOLA_INVASIVE_BREAST_CANCER_DN
20	-5.49	NULL	1 / 5	GSEA C2FERRARI_RESPONSE_TO_FENRETINIDE_DN
21	-5.48	NULL	4 / 14	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_D
22	-5.43	NULL	2 / 16	GSEA C2YANG_BREAST_CANCER_ESR1_BULK_UP
23	-5.42	NULL	2 / 14	GSEA C2VANTVEER_BREAST_CANCER_ESR1_UP
24	-5.35	NULL	2 / 13	GSEA C2YANG_BREAST_CANCER_ESR1_UP
25	-5.32	NULL	1 / 10	GSEA C2FRASOR_TAMOXIFEN_RESPONSE_DN
26	-5.32	NULL	3 / 4	miRNA target-204
27	-5.28	NULL	2 / 12	BP neuron fate specification
28	-5.19	NULL	1 / 7	GSEA C2KOBAYASHI_EGFR_SIGNALING_6HR_UP
29	-5.18	NULL	1 / 4	GSEA C2GARASHI_ATF4_TARGETS_UP
30	-5.17	NULL	1 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL QUIESCENT_DN
31	-5.15	NULL	1 / 11	BP negative regulation of multicellular organism growth
32	-5.13	NULL	3 / 15	GSEA C2GOLUB_ALL_VS_AML_UP
33	-5.07	NULL	3 / 15	GSEA C2SABATES_COLORECTAL_ADENOMA_UP
34	-4.99	NULL	2 / 10	GSEA C2MOHANKUMAR_TLX1_TARGETS_DN
35	-4.99	NULL	2 / 10	BP regulation of dendrite development
36	-4.98	NULL	2 / 14	Cancer LIU_LIVER_CANCER
37	-4.94	NULL	2 / 29	BP ATP hydrolysis coupled proton transport
38	-4.78	NULL	2 / 14	GSEA C2KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP
39	-4.76	NULL	2 / 15	GSEA C2CHIANG_LIVER_CANCER_SUBCLASS_CTNNB1_UP
40	-4.73	NULL	2 / 11	MF enhancer sequence-specific DNA binding

p-values



GW_307

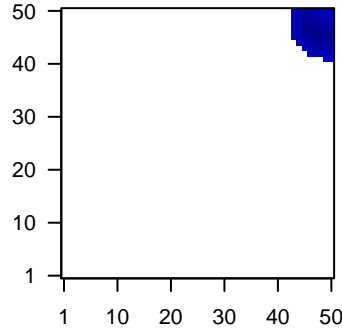
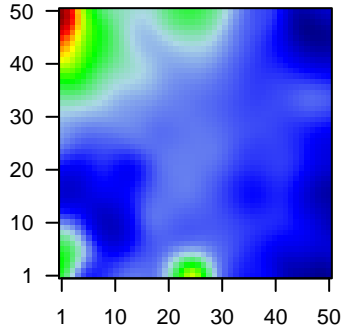
Local Summary

%DE = 0.72
 # metagenes = 68
 # genes = 769
 # genes in genesets = 763
 # genes with $fdr < 0.1$ = 325 (30 + / 295 -)
 # genes with $fdr < 0.05$ = 235 (20 + / 215 -)
 # genes with $fdr < 0.01$ = 148 (14 + / 134 -)

<r> metagenes = 0.86
 <r> genes = 0.23
 <FC> = -0.25
 <shrinkage-t> = -8.89
 <p-value> = 0.02
 <fdr> = 0.67

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	4072	-1.91	2e-16	5e-14	50 x 50 epithelial cell adhesion molecule [Source:HGNC Symbol;Acc:...
2	10643	-1.26	3e-15	5e-11	48 x 50 insulin-like growth factor 2 mRNA binding protein 3 [Source:HGNC Symbol;Acc:...
3	26227	-1.17	3e-13	1e-10	50 x 46 phosphoglycerate dehydrogenase [Source:HGNC Symbol;Acc:...
4	2956	-1.14	8e-13	8e-10	47 x 48 mutS homolog 6 [Source:HGNC Symbol;Acc:7329]
5	116832	-1.1	5e-12	3e-07	46 x 50 ribosomal protein L39-like [Source:HGNC Symbol;Acc:17094]
6	26047	-0.95	3e-09	3e-07	50 x 50 contactin associated protein-like 2 [Source:HGNC Symbol;Acc:...
7	291	-0.95	3e-09	1e-06	50 x 46 solute carrier family 25 (mitochondrial carrier; adenine nucleoside) member 1 [Source:HGNC Symbol;Acc:...
8	2222	-0.92	8e-09	1e-06	50 x 50 farnesyl-diphosphate farnesyltransferase 1 [Source:HGNC Symbol;Acc:...
9	1786	-0.89	3e-08	1e-06	45 x 47 DNA (cytosine-5-)-methyltransferase 1 [Source:HGNC Symbol;Acc:...
10	9918	-0.88	3e-08	1e-06	45 x 49 non-SMC condensin I complex, subunit D2 [Source:HGNC Symbol;Acc:...
11	9076	0.88	3e-08	1e-06	49 x 50 claudin 1 [Source:HGNC Symbol;Acc:2032]
12	4172	-0.87	5e-08	1e-06	46 x 47 minichromosome maintenance complex component 3 [Source:HGNC Symbol;Acc:...
13	4922	-0.87	5e-08	1e-06	50 x 50 neurotensin [Source:HGNC Symbol;Acc:8038]
14	51804	-0.87	5e-08	1e-06	50 x 46 SIX homeobox 4 [Source:HGNC Symbol;Acc:10890]
15	142	-0.87	5e-08	1e-06	47 x 46 poly (ADP-ribose) polymerase 1 [Source:HGNC Symbol;Acc:...
16	2091	-0.87	5e-08	4e-06	47 x 45 fibrillarin [Source:HGNC Symbol;Acc:3599]
17	26024	-0.85	1e-07	4e-06	49 x 48 pentatricopeptide repeat domain 1 [Source:HGNC Symbol;Acc:...
18	899	-0.85	1e-07	4e-06	45 x 46 cyclin F [Source:HGNC Symbol;Acc:1591]
19	7298	-0.84	1e-07	4e-06	46 x 48 thymidylate synthetase [Source:HGNC Symbol;Acc:12441]
20	84171	-0.84	1e-07	4e-06	50 x 49 lysyl oxidase-like 4 [Source:HGNC Symbol;Acc:17171]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-36.6	NULL	94 / 142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	-36.6	NULL	94 / 142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	-21.37	NULL	16 / 16	GSEA C2GUCHI_CELL_CYCLE_RB1_TARGETS
4	-19.57	NULL	9 / 11	GSEA C2KALMA_E2F1_TARGETS
5	-19.14	NULL	103 / 370	BP mitotic cell cycle
6	-18.95	NULL	52 / 149	BP DNA replication
7	-18.57	NULL	27 / 57	Glio developing astrocytes
8	-18.3	NULL	115 / 530	Cancer Lembecke_Normal vs Adenoma
9	-18.16	NULL	19 / 30	BP DNA strand elongation involved in DNA replication
10	-17.34	NULL	8 / 11	GSEA C2REACTOME_UNWINDING_OF_DNA
11	-16.76	NULL	11 / 13	GSEA C2CROONQUIST_IL6_DEPRIVATION_DN
12	-16.19	NULL	12 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_2
13	-16.14	NULL	11 / 14	MMML C2SCIEJ_MMML_4
14	-15.93	NULL	11 / 14	GSEA C2ZHAN_MULTIPLE_MYELOMA_PR_UP
15	-15.92	NULL	11 / 16	GSEA C2FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_DN
16	-15.65	NULL	11 / 16	GSEA C2REACTOME_DNA_STRAND_ELONGATION
17	-15.17	NULL	11 / 15	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
18	-15.12	NULL	13 / 22	BP DNA replication initiation
19	-15.09	NULL	8 / 16	GSEA C2Y_AGING_PREMATURE_DN
20	-14.9	NULL	8 / 10	GSEA C2MONTERO_THYROID_CANCER_POOR_SURVIVAL_UP
21	-14.49	NULL	12 / 15	GSEA C2ZHANG_CYCLING_GENES
22	-14.3	NULL	62 / 232	BP mitosis
23	-14.25	NULL	10 / 15	GSEA C2WU_APOPTOSIS_BY_CDKN1A_VIA_TP53
24	-14.21	NULL	12 / 16	GSEA C2KANG_DOXORUBICIN_RESISTANCE_UP
25	-14.21	NULL	9 / 11	GSEA C2JIANG_SILENCED_BY_METHYLATION_DN
26	-13.86	NULL	11 / 16	GSEA C2CROONQUIST_NRAS_SIGNALING_DN
27	-13.73	NULL	12 / 16	GSEA C2SCIAN_CELL_CYCLE_TARGETS_OF_TP53_AND_TP73_DN
28	-13.72	NULL	6 / 8	GSEA C2REACTOME_E2F_TRANSCRIPTIONAL_TARGETS_AT_G1_S
29	-13.54	NULL	7 / 11	GSEA C2REACTOME_E2F_MEDIATED_REGULATION_OF_DNA_REPLICATION
30	-13.45	NULL	11 / 16	GSEA C2GRAHAM_NORMAL QUIESCENT_VS_NORMAL_DIVIDING_DN
31	-13.17	NULL	13 / 16	GSEA C2FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL
32	-12.84	NULL	8 / 13	GSEA C2NADERI_BREAST_CANCER_PROGNOSIS_UP
33	-12.83	NULL	10 / 14	GSEA C2ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
34	-12.67	NULL	12 / 15	GSEA C2FINETTI_BREAST_CANCER_KINOME_RED
35	-12.49	NULL	11 / 16	GSEA C2SONG_TARGETS_OF_IE86_CMV_PROTEIN
36	-12.44	NULL	9 / 15	GSEA C2Y_AGING_MIDDLE_DN
37	-12.19	NULL	6 / 7	GSEA C2REACTOME_G1_S_TRANSITION
38	-12.09	NULL	8 / 12	GSEA C2REACTOME_CELL_CYCLE_MITOTIC
39	-12.08	NULL	8 / 16	GSEA C2CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP
40	-12.06	NULL	7 / 15	GSEA C2Y_AGING_OLD_DN

p-values

