

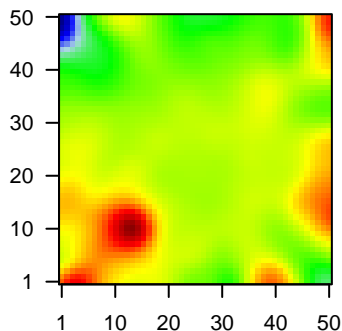
GW_164

Global Summary

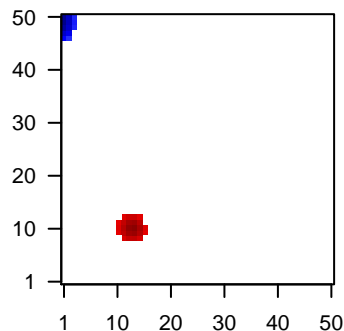
%DE = 0.15
 # genes with fdr < 0.2 = 1780 (1013 + / 767 -)
 # genes with fdr < 0.1 = 1394 (817 + / 577 -)
 # genes with fdr < 0.05 = 1142 (686 + / 456 -)
 # genes with fdr < 0.01 = 796 (490 + / 306 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.1
 <fdr> = 0.85

Profile



Regulated Spots



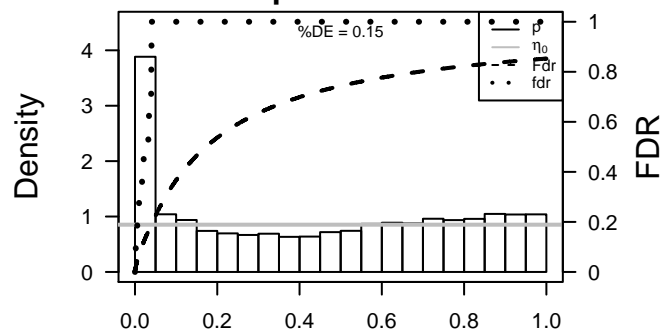
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	59	1.76	2e-16	2e-14	3 x 1 actin, alpha 2, smooth muscle, aorta [Source:HGNC Symbol;]
2	124	2.86	2e-16	2e-14	50 x 11 alcohol dehydrogenase 1A (class I), alpha polypeptide [Source:HGNC Symbol;]
3	126	2.67	2e-16	2e-14	50 x 12 alcohol dehydrogenase 1C (class I), gamma polypeptide [Source:HGNC Symbol;]
4	347	2.69	2e-16	2e-14	50 x 7 apolipoprotein D [Source:HGNC Symbol;Acc:612]
5	339512	2.41	2e-16	2e-14	50 x 50 chromosome 1 open reading frame 110 [Source:HGNC Synt
6	375791	-2.35	2e-16	2e-14	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
7	760	-1.76	2e-16	2e-14	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
8	51806	-1.57	2e-16	2e-14	4 x 50 calmodulin-like 5 [Source:HGNC Symbol;Acc:18180]
9	92291	1.69	2e-16	2e-14	50 x 11 calpain 13 [Source:HGNC Symbol;Acc:16663]
10	84290	1.8	2e-16	2e-14	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
11	4680	-2.34	2e-16	2e-14	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (i
12	83539	1.68	2e-16	2e-14	50 x 11 carbohydrate (N-acetyl)galactosamine 4-0) sulfotransferase 5
13	9076	2.4	2e-16	2e-14	49 x 50 claudin 1 [Source:HGNC Symbol;Acc:2032]
14	84518	-3.22	2e-16	2e-14	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
15	54544	-1.65	2e-16	2e-14	1 x 50 cysteine-rich C-terminal 1 [Source:HGNC Symbol;Acc:2987]
16	49860	-1.98	2e-16	2e-14	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
17	1469	2.12	2e-16	2e-14	9 x 6 cystatin SN [Source:HGNC Symbol;Acc:2473]
18	1515	-1.56	2e-16	2e-14	1 x 44 cathepsin V [Source:HGNC Symbol;Acc:2538]
19	9547	-1.91	2e-16	2e-14	1 x 46 chemokine (C-X-C motif) ligand 14 [Source:HGNC Symbol;]
20	6372	1.57	2e-16	2e-14	1 x 1 chemokine (C-X-C motif) ligand 6 [Source:HGNC Symbol;Ac

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	10.5	NULL	190	CC extracellular matrix
2	9.42	NULL	957	Chr Chr 11
3	7.98	NULL	242	BP extracellular matrix organization
4	7.74	NULL	9	GSEA C2REACTOME_ETHANOL_OXIDATION
5	7.65	NULL	250	Lymphocyte chemokine receptor 1
6	7.46	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
7	6.81	NULL	52	Chr Chr HSCR6_MHC_QBL
8	6.74	NULL	717	Chr Chr 16
9	6.43	NULL	34	Chr Chr Y
10	6.31	NULL	15	GSEA C2MASRI_RESISTANCE_TO_TAMOXIFEN_AND_AROMATASE_INH
11	6.27	NULL	8	GSEA C2RUNNE_GENDER_EFFECT_UP
12	6.06	NULL	914	Chr Chr 3
13	6.02	NULL	5	GSEA C2BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP
14	5.93	NULL	183	CC proteinaceous extracellular matrix
15	5.85	NULL	375	Disease GUDJ_poriasis down
16	5.84	NULL	7	MMML C6CICJ_MMML 5
17	5.83	NULL	14	GSEA C2PETRETTO_CARDIAC_HYPERTROPHY
18	5.8	NULL	534	Chr Chr 8
19	5.76	NULL	37	BP collagen fibril organization
20	5.74	NULL	16	GSEA C2MAHADEVAN_RESPONSE_TO_MP470_DN
<i>Underexpressed</i>				
1	-23.35	NULL	572	Disease GUDJ_poriasis up
2	-17.77	NULL	21	CC cornified envelope
3	-16.96	NULL	135	H.Tiss WIRTH_Mucosa
4	-15.01	NULL	42	BP keratinization
5	-14.54	NULL	53	BP keratinocyte differentiation
6	-14.4	NULL	76	BP epidermis development
7	-10.05	NULL	633	Chr Chr 9
8	-9.86	NULL	19	BP peptide cross-linking
9	-8.99	NULL	10	MF RAGE receptor binding
10	-8.57	NULL	417	H.Tiss WIRTH_Immune system
11	-8.51	NULL	232	Chr Chr 18
12	-8.04	NULL	1720	Chr Chr 1
13	-7.9	NULL	16	GSEA C2ONDER_CDH1_TARGETS_3_DN
14	-7.56	NULL	10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
15	-7.47	NULL	16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
16	-6.68	NULL	15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
17	-6.52	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
18	-6.51	NULL	504	Chr Chr 15
19	-6.35	NULL	15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
20	-6.22	NULL	16	GSEA C2ROMER_TUMORIGENESIS_DN

p-values



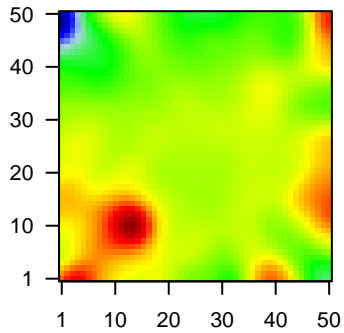
GW_164

Local Summary

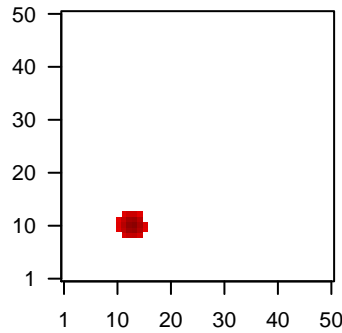
%DE = 0.65
 # metagenes = 25
 # genes = 110
 # genes in genesets = 87
 # genes with $fdr < 0.1$ = 63 (62 + / 1 -)
 # genes with $fdr < 0.05$ = 57 (57 + / 0 -)
 # genes with $fdr < 0.01$ = 51 (51 + / 0 -)

<r> metagenes = 0.94
 <r> genes = 0.26
 <FC> = 0.81
 <shrinkage-t> = 28.49
 <p-value> = 0
 <fdr> = 0.43

Profile



Spot



Local Genelist

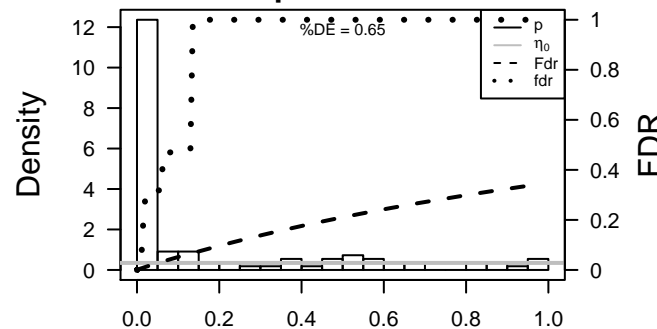
Rank	ID	log(FC)	fdr	p-value	Description
1	56884	2.08	2e-16	4e-16	16 x 11 follistatin-like 5 [Source:HGNC Symbol;Acc:21386]
2	729428	3.06	2e-16	4e-16	14 x 11 G antigen 12C [Source:HGNC Symbol;Acc:28402]
3	729422	3.33	2e-16	4e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
4	100132399	1.57	2e-16	4e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
5	100008586	2.95	2e-16	4e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
6	645073	3.01	2e-16	4e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
7	729442	3.14	2e-16	4e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
8	26748	2.78	2e-16	4e-16	14 x 11 G antigen 12I [Source:HGNC Symbol;Acc:4105]
9	729396	2.54	2e-16	4e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
10	729447	2.48	2e-16	4e-16	14 x 11 G antigen 2A [Source:HGNC Symbol;Acc:4099]
11	645037	3.31	2e-16	4e-16	14 x 11 G antigen 2C [Source:HGNC Symbol;Acc:31958]
12	26749	2.59	2e-16	4e-16	14 x 11 G antigen 2E [Source:HGNC Symbol;Acc:31960]
13	2576	3.06	2e-16	4e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
14	2577	2.93	2e-16	4e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
15	2578	1.7	2e-16	4e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
16	2579	1.71	2e-16	4e-16	14 x 11 G antigen 12I [Source:HGNC Symbol;Acc:4105]
17	100101629	1.95	2e-16	4e-16	14 x 11 G antigen 2E [Source:HGNC Symbol;Acc:31960]
18	121355	1.56	2e-16	4e-16	14 x 11 gametocyte specific factor 1 [Source:HGNC Symbol;Acc:265]
19	3303	1.78	2e-16	4e-16	11 x 12 heat shock 70kDa protein 1A [Source:HGNC Symbol;Acc:52]
20	5446	1.56	2e-16	4e-16	13 x 10 paraoxonase 3 [Source:HGNC Symbol;Acc:9206]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	30.51	NULL	1 / 2	GSEA C2KUROKAWA_LIVER_CANCER_EARLY_RECURRENCE_UP
2	16.54	NULL	1 / 2	miRNA target-107
3	14.77	NULL	1 / 5	GSEA C2DASU_IL6_SIGNALING_UP
4	13.06	NULL	1 / 6	GSEA C2SESTO_RESPONSE_TO_UV_CO
5	13.06	NULL	1 / 6	GSEA C2BIOCARTA_TID_PATHWAY
6	12.24	NULL	29 / 630	Chr Chr X
7	11.81	NULL	1 / 7	GSEA C2WEINMANN_ADAPTATION_TO_HYPOXIA_UP
8	10.84	NULL	1 / 8	GSEA C2BARRIER_CANCER_RELAPSE_NORMAL_SAMPLE_DN
9	10.84	NULL	1 / 8	GSEA C2ADDYA_ERYTHROID_DIFFERENTIATION_BY_HEMIN
10	10.84	NULL	1 / 8	GSEA C2CHANDRAN_METASTASIS_UP
11	10.84	NULL	1 / 8	GSEA C2WU_APOPTOSIS_BY_CDKN1A_NOT_VIA_TP53
12	10.84	NULL	1 / 8	GSEA C2SATO_SILENCED_EPIGENETICALLY_IN_PANCREATIC_CANCE
13	10.84	NULL	1 / 8	GSEA C2KEGG_PRION_DISEASES
14	10.84	NULL	1 / 8	GSEA C2REACTOME_INFLUENZA_LIFE_CYCLE
15	10.35	NULL	1 / 12	GSEA C2RAY_TARGETS_OF_P210_BCR_ABL_FUSION_UP
16	10.07	NULL	1 / 9	GSEA C2WEINMANN_ADAPTATION_TO_HYPOXIA_DN
17	10.07	NULL	1 / 9	GSEA C2JAIN_NFKB_SIGNALING
18	10.07	NULL	1 / 9	GSEA C2MARZEC_IL2_SIGNALING_UP
19	10.07	NULL	1 / 9	GSEA C2HOSHIDA_LIVER_CANCER_LATE_RECURRENCE_UP
20	10.07	NULL	1 / 9	GSEA C2BROWNE_HCMV_INFECTION_8HR_UP
21	10.07	NULL	1 / 9	GSEA C2MOREIRA_RESPONSE_TO_TSA_UP
22	10.06	NULL	2 / 10	GSEA C2XU_GH1_AUTOCRINE_TARGETS_DN
23	9.43	NULL	1 / 10	GSEA C2SAMOLS_TARGETS_OF_KHSV_MIRNAS_DN
24	9.43	NULL	1 / 10	GSEA C2BORCZUK_MALIGNANT_MESOTHELIOMA_DN
25	9.43	NULL	1 / 10	GSEA C2NOJIMA_SFRP2_TARGETS_UP
26	9.43	NULL	1 / 10	GSEA C2HOEBEKE_LYMPHOID_STEM_CELL_DN
27	9.43	NULL	1 / 10	GSEA C2SAUSSMANN_MLL_AF4_FUSION_TARGETS_E_UP
28	9.43	NULL	1 / 10	GSEA C2VETTER_TARGETS_OF_PRKCA_AND_ETS1_DN
29	9.43	NULL	1 / 10	GSEA C2DAUER_STAT3_TARGETS_DN
30	9.43	NULL	1 / 10	GSEA C2CERVERA_SDHB_TARGETS_1_DN
31	9.43	NULL	1 / 10	GSEA C2HANN_RESISTANCE_TO_BCL2_INHIBITOR_DN
32	9.43	NULL	1 / 10	GSEA C2MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_DN
33	9.43	NULL	1 / 10	GSEA C2CHUANG_OXIDATIVE_STRESS_RESPONSE_UP
34	9.43	NULL	1 / 10	GSEA C2BIOCARTA_P53HYPOXIA_PATHWAY
35	9.43	NULL	1 / 10	GSEA C2BIOCARTA_PPARA_PATHWAY
36	9.35	NULL	1 / 6	GSEA C2NIELSEN_LEIOMYOSARCOMA_UP
37	8.89	NULL	1 / 11	GSEA C2GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_E
38	8.89	NULL	1 / 11	GSEA C2OONCANNON_APOPTOSIS_BY_OXIDOMICIN_UP
39	8.89	NULL	1 / 11	GSEA C2WOOD_EBV_EBNA1_TARGETS_UP
40	8.42	NULL	1 / 12	GSEA C2KIM_WT1_TARGETS_8HR_UP

p-values



GW_164

Local Summary

%DE = 0.92
 # metagenes = 13
 # genes = 194
 # genes in genesets = 188

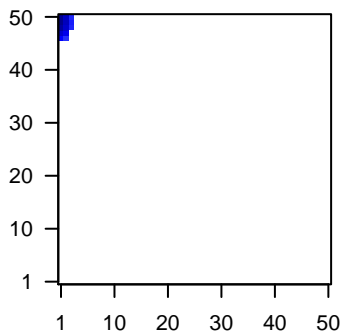
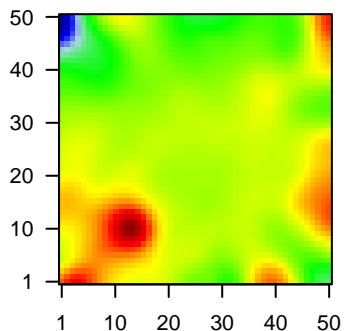
 # genes with $fdr < 0.1$ = 164 (12 + / 152 -)
 # genes with $fdr < 0.05$ = 162 (11 + / 151 -)
 # genes with $fdr < 0.01$ = 144 (8 + / 136 -)

 $\langle r \rangle$ metagenes = 0.96
 $\langle r \rangle$ genes = 0.47

 $\langle FC \rangle = -0.98$
 $\langle \text{shrinkage-t} \rangle = -34.84$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.22$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	375791	-2.35	2e-16	7e-17	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
2	84290	1.8	2e-16	7e-17	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
3	4680	-2.34	2e-16	7e-17	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (i
4	84518	-3.22	2e-16	7e-17	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
5	54544	-1.65	2e-16	7e-17	1 x 50 cysteine-rich C-terminal 1 [Source:HGNC Symbol;Acc:2987]
6	49860	-1.98	2e-16	7e-17	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
7	9547	-1.91	2e-16	7e-17	1 x 46 chemokine (C-X-C motif) ligand 14 [Source:HGNC Symbol;f
8	414325	-1.86	2e-16	7e-17	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
9	1673	-2.48	2e-16	7e-17	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
10	1824	-1.92	2e-16	7e-17	1 x 48 desmocollin 2 [Source:HGNC Symbol;Acc:3036]
11	1828	-1.63	2e-16	7e-17	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
12	9982	-2.08	2e-16	7e-17	1 x 47 fibroblast growth factor binding protein 1 [Source:HGNC Syml
13	2706	-1.64	2e-16	7e-17	1 x 47 gap junction protein, beta 2, 26kDa [Source:HGNC Symbol;A
14	10804	-1.81	2e-16	7e-17	1 x 47 gap junction protein, beta 6, 30kDa [Source:HGNC Symbol;A
15	56300	-2.25	2e-16	7e-17	1 x 47 interleukin 36, gamma [Source:HGNC Symbol;Acc:15741]
16	5653	-2.29	2e-16	7e-17	1 x 50 kallikrein-related peptidase 6 [Source:HGNC Symbol;Acc:63i
17	5650	-2.03	2e-16	7e-17	1 x 49 kallikrein-related peptidase 7 [Source:HGNC Symbol;Acc:63i
18	3848	-1.57	2e-16	7e-17	1 x 47 keratin 1 [Source:HGNC Symbol;Acc:6412]
19	192666	-1.94	2e-16	7e-17	1 x 50 keratin 24 [Source:HGNC Symbol;Acc:18527]
20	3851	2.18	2e-16	7e-17	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-44.55	NULL	18 / 21	CC cornified envelope
2	-39.46	NULL	78 / 135	H.Tiss WIRTH_Mucosa
3	-36.61	NULL	19 / 42	BP keratinization
4	-34.89	NULL	23 / 53	BP keratinocyte differentiation
5	-28.58	NULL	22 / 76	BP epidermis development
6	-26.56	NULL	85 / 572	Disease GUDJ_psoriasis up
7	-25.32	NULL	6 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
8	-24.21	NULL	10 / 19	BP peptide cross-linking
9	-23.98	NULL	6 / 16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
10	-21.3	NULL	5 / 10	MF RAGE receptor binding
11	-19.63	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
12	-16.97	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
13	-15.23	NULL	7 / 15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
14	-15.1	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
15	-13.32	NULL	4 / 15	GSEA C2CHANG_IMMORTALIZED_BY_HP31_DN
16	-12.6	NULL	2 / 8	GSEA C2LIU_CDX2_TARGETS_DN
17	-12.55	NULL	5 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATEL
18	-12.34	NULL	3 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
19	-12.19	NULL	3 / 14	BP defense response to fungus
20	-12.1	NULL	13 / 79	MF serine-type endopeptidase inhibitor activity
21	-11.99	NULL	10 / 52	BP negative regulation of endopeptidase activity
22	-11.8	NULL	3 / 16	GSEA C2CHEOK_RESPONSE_TO_MERCAPTOPURINE_AND_LD_MTX_1
23	-11.79	NULL	3 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_DN
24	-11.67	NULL	9 / 21	CC desmosome
25	-11.57	NULL	20 / 186	MF structural molecule activity
26	-11.56	NULL	6 / 13	BP negative regulation of peptidase activity
27	-11.32	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
28	-10.46	NULL	3 / 16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
29	-10.39	NULL	2 / 8	GSEA C2MCLACHLAN_DENTAL_CARIES_UP
30	-10.38	NULL	7 / 29	BP regulation of proteolysis
31	-10.23	NULL	6 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
32	-10.13	NULL	4 / 15	GSEA C2AIGNER_ZEB1_TARGETS
33	-10.05	NULL	3 / 10	GSEA C2NIKOLSKY_BREAST_CANCER_20Q12_Q13_AMPLICON
34	-9.97	NULL	2 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LIVER_UP
35	-9.95	NULL	2 / 10	BP chronic inflammatory response
36	-9.89	NULL	2 / 14	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_D
37	-9.68	NULL	2 / 9	GSEA C2MCLACHLAN_DENTAL_CARIES_DN
38	-9.65	NULL	5 / 23	MF peptidase inhibitor activity
39	-9.43	NULL	4 / 16	GSEA C2HAHTOLA_MYCOSIS_FUNGOIDES_SKIN_DN
40	-9.41	NULL	51 / 1182	CC extracellular region

p-values

