

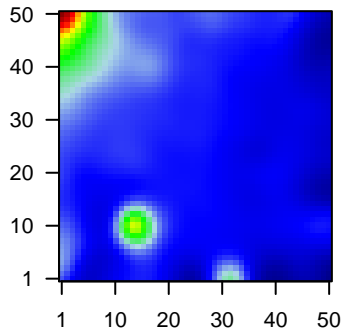
GW_127

Global Summary

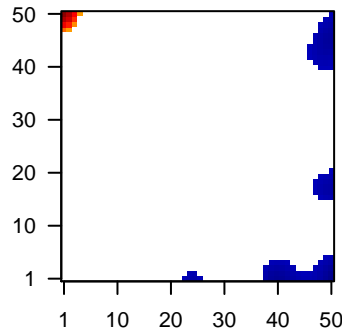
%DE = 0.12
 # genes with fdr < 0.2 = 1500 (919 + / 581 -)
 # genes with fdr < 0.1 = 1232 (792 + / 440 -)
 # genes with fdr < 0.05 = 997 (671 + / 326 -)
 # genes with fdr < 0.01 = 720 (513 + / 207 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.11
 <fdr> = 0.88

Profile



Regulated Spots



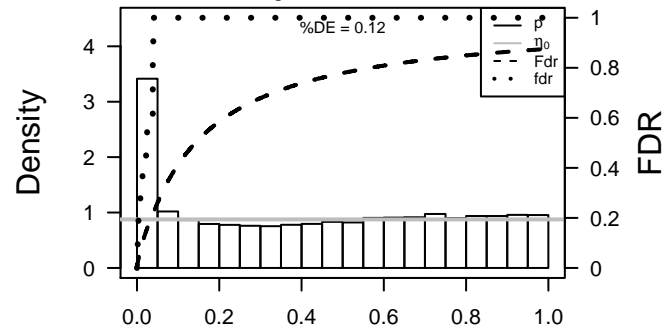
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	1.16	2e-16	2e-14	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	58	-1.15	2e-16	2e-14	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
3	57016	1.32	2e-16	2e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
4	55107	-1.24	2e-16	2e-14	1 x 5 anoctamin 1, calcium activated chloride channel [Source:HGNC
5	80117	1.02	2e-16	2e-14	2 x 40 ADP-ribosylation factor-like 14 [Source:HGNC Symbol;Acc:2
6	10409	1.28	2e-16	2e-14	1 x 2 brain abundant, membrane attached signal protein 1 [Source:
7	618	1.29	2e-16	2e-14	39 x 1 brain cytoplasmic RNA 1 [Source:HGNC Symbol;Acc:1022]
8	387695	1.28	2e-16	2e-14	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
9	84419	1.02	2e-16	2e-14	5 x 50 chromosome 15 open reading frame 48 [Source:HGNC Synt
10	260436	-1.1	2e-16	2e-14	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
11	375791	1.71	2e-16	2e-14	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
12	810	0.92	2e-16	2e-14	1 x 50 calmodulin-like 3 [Source:HGNC Symbol;Acc:1452]
13	55450	1.05	2e-16	2e-14	1 x 4 calcium/calmodulin-dependent protein kinase II inhibitor 1 [S
14	92291	1.02	2e-16	2e-14	50 x 11 calpain 13 [Source:HGNC Symbol;Acc:16663]
15	84290	1.03	2e-16	2e-14	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
16	414062	-1.42	2e-16	2e-14	1 x 1 chemokine (C-C motif) ligand 3-like 3 [Source:HGNC Symbc
17	9560	-1.32	2e-16	2e-14	32 x 1 chemokine (C-C motif) ligand 4-like 1 [Source:HGNC Symbc
18	8900	1.93	2e-16	2e-14	1 x 42 cyclin A1 [Source:HGNC Symbol;Acc:1577]
19	978	1.02	2e-16	2e-14	1 x 46 cytidine deaminase [Source:HGNC Symbol;Acc:1712]
20	1048	1.15	2e-16	2e-14	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	29.45	NULL	135	H.Tiss WIRTH_Mucosa
2	20.75	NULL	572	Disease GUDJ_psooriasis up
3	13.17	NULL	13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
4	12.07	NULL	21	CC cornified envelope
5	11.4	NULL	10	GSEA C2BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
6	11.33	NULL	76	BP epidermis development
7	10.96	NULL	519	Chr Chr 14
8	10.8	NULL	19	BP peptide cross-linking
9	10.79	NULL	51	BP type I interferon signaling pathway
10	10.24	NULL	53	BP keratinocyte differentiation
11	9.89	NULL	31	BP negative regulation of viral genome replication
12	9.25	NULL	699	Chr Chr 5
13	9.1	NULL	16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
14	9.06	NULL	16	GSEA C2MOSERLE_IFNA_RESPONSE
15	9	NULL	10	GSEA C2GRANDVAUX_IFN_RESPONSE_NOT_VIA_IRF3
16	8.95	NULL	16	GSEA C2ZHANG_INTERFERON_RESPONSE
17	8.91	NULL	42	BP keratinization
18	8.7	NULL	12	GSEA C2TSAL_DNAJB4_TARGETS_UP
19	8.6	NULL	16	GSEA C2EINAV_INTERFERON_SIGNATURE_IN_CANCER
20	8.04	NULL	16	GSEA C2CROMER_TUMORIGENESIS_DN
<i>Underexpressed</i>				
1	-7.31	NULL	534	Chr Chr 8
2	-7.07	NULL	15	CC MHC class II protein complex
3	-6.38	NULL	36	BP muscle filament sliding
4	-6.22	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
5	-5.28	NULL	127	H.Tiss WIRTH_Muscle
6	-5.02	NULL	232	Chr Chr 18
7	-4.82	NULL	7	MMML C2SCIEJ_MMML 13
8	-4.62	NULL	16	H.Tiss WIRTH_Hippocampus
9	-4.57	NULL	187	Chr Chr 21
10	-4.43	NULL	12	CC myosin filament
11	-4.4	NULL	10	BP cellular response to zinc ion
12	-4.39	NULL	16	GSEA C2MAHADEVAN_RESPONSE_TO_MP470_DN
13	-4.29	NULL	15	GSEA C2KRIGE_AMINO_ACID_DEPRIVATION
14	-4.26	NULL	43	MF chemokine activity
15	-4.02	NULL	1574	BP transcription, DNA-templated
16	-3.98	NULL	1720	Chr Chr 1
17	-3.86	NULL	1749	MF DNA binding
18	-3.77	NULL	6	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_UP
19	-3.69	NULL	36	BP neutrophil chemotaxis
20	-3.68	NULL	426	Lymphom C2SPANG_CD40 6hrs DN

p-values



GW_127

Local Summary

%DE = 0.93
 # metagenes = 12
 # genes = 187
 # genes in genesets = 182

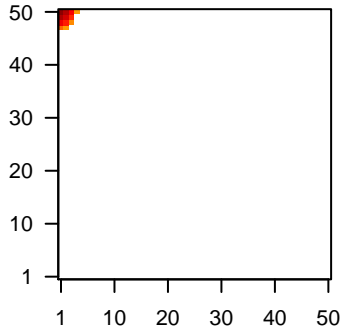
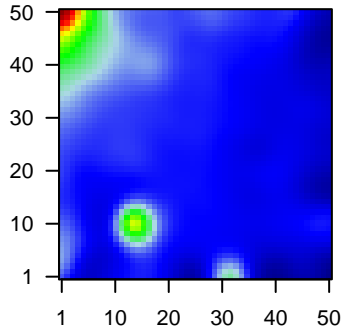
genes with $fdr < 0.1 = 164$ (156 + / 8 -)
 # genes with $fdr < 0.05 = 160$ (154 + / 6 -)
 # genes with $fdr < 0.01 = 145$ (141 + / 4 -)

<r> metagenes = 0.98
 <r> genes = 0.48

<FC> = 0.72
 <shrinkage-t> = 25.6
 <p-value> = 0
 <fdr> = 0.18

Profile

Spot



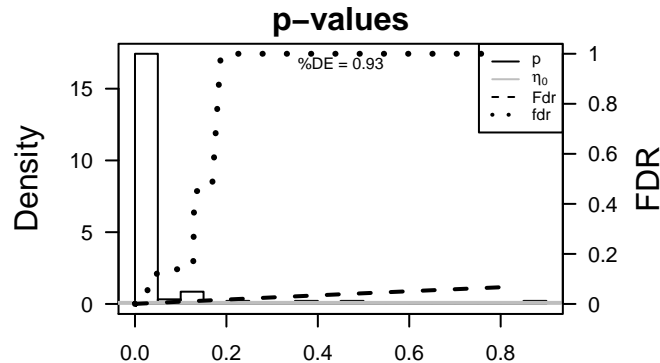
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	1.16	2e-16	6e-17	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	57016	1.32	2e-16	6e-17	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
3	387695	1.28	2e-16	6e-17	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
4	375791	1.71	2e-16	6e-17	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
5	810	0.92	2e-16	6e-17	1 x 50 calmodulin-like 3 [Source:HGNC Symbol;Acc:1452]
6	84290	1.03	2e-16	6e-17	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
7	1048	1.15	2e-16	6e-17	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
8	4680	1.17	2e-16	6e-17	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (
9	1087	1.09	2e-16	6e-17	4 x 50 carcinoembryonic antigen-related cell adhesion molecule 7 [
10	22802	1.31	2e-16	6e-17	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
11	9022	1.07	2e-16	6e-17	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2
12	84518	1.73	2e-16	6e-17	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
13	54544	1.43	2e-16	6e-17	1 x 50 cysteine-rich C-terminal 1 [Source:HGNC Symbol;Acc:2987
14	49860	3.16	2e-16	6e-17	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
15	1475	1.18	2e-16	6e-17	1 x 50 cystatin A (stefin A) [Source:HGNC Symbol;Acc:2481]
16	1562	1.07	2e-16	6e-17	1 x 50 cytochrome P450, family 2, subfamily C, polypeptide 18 [Sou
17	1828	1	2e-16	6e-17	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
18	2012	0.98	2e-16	6e-17	3 x 50 epithelial membrane protein 1 [Source:HGNC Symbol;Acc:33
19	163351	1.09	2e-16	6e-17	1 x 50 guanylate binding protein family, member 6 [Source:HGNC S
20	2877	1.1	2e-16	6e-17	1 x 50 glutathione peroxidase 2 (gastrointestinal) [Source:HGNC Sy

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	59.52	NULL	74 / 135	H.Tiss WIRTH_Mucosa
2	29.58	NULL	16 / 21	CC cornified envelope
3	24.43	NULL	9 / 19	BP peptide cross-linking
4	22.86	NULL	19 / 42	BP keratinization
5	22.8	NULL	21 / 53	BP keratinocyte differentiation
6	21.87	NULL	81 / 572	Disease GUDJ_psooriasis up
7	19.81	NULL	20 / 76	BP epidermis development
8	19.57	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
9	17.71	NULL	6 / 16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
10	16.04	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
11	15.81	NULL	6 / 13	BP negative regulation of peptidase activity
12	14.93	NULL	7 / 15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
13	14.3	NULL	8 / 44	CC keratin filament
14	13.99	NULL	7 / 38	BP epithelial cell differentiation
15	12.27	NULL	12 / 122	MF serine-type endopeptidase activity
16	11.95	NULL	18 / 186	MF structural molecule activity
17	11.71	NULL	6 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
18	11.51	NULL	2 / 8	GSEA C2LIU_CDX2_TARGETS_DN
19	11.1	NULL	5 / 10	MF RAGE receptor binding
20	11.07	NULL	2 / 15	GSEA C2ALONSO_METASTASIS_NEURAL_UP
21	10.85	NULL	3 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
22	10.41	NULL	10 / 82	CC intermediate filament
23	10.37	NULL	49 / 1182	CC extracellular region
24	9.66	NULL	1 / 11	Glio VERHAAK_Brain
25	9.17	NULL	1 / 12	MF channel activity
26	8.74	NULL	1 / 13	GSEA C2HASLINGER_B_CLL_WITH_MUTATED_VH_GENES
27	8.64	NULL	5 / 21	CC desmosome
28	8.59	NULL	4 / 16	GSEA C2COLDREN_GEFITINIB_RESISTANCE_DN
29	8.58	NULL	10 / 79	MF serine-type endopeptidase inhibitor activity
30	8.55	NULL	1 / 6	GSEA C2SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN
31	8.45	NULL	4 / 13	H.Tiss WIRTH_Tonsil
32	8.41	NULL	3 / 11	GSEA C2MURAKAMI_UV_RESPONSE_6HR_DN
33	8.31	NULL	2 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
34	8.03	NULL	1 / 15	BP positive regulation of extrinsic apoptotic signaling pathway via deat
35	8.03	NULL	1 / 15	GSEA C2BIOCARTA_MAL_PATHWAY
36	7.99	NULL	1 / 5	GSEA C2FERRARI_RESPONSE_TO_FENRETINIDE_DN
37	7.96	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP
38	7.89	NULL	3 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LUNG_UP
39	7.76	NULL	3 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
40	7.73	NULL	1 / 16	Cancer GENTLES_modul11



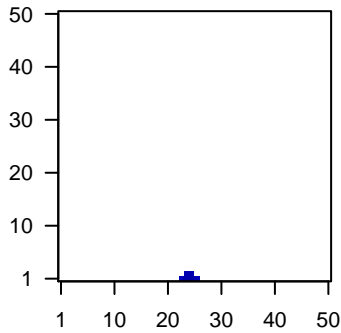
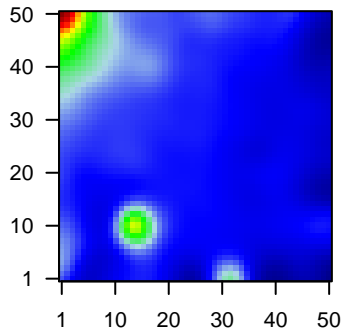
GW_127

Local Summary

%DE = 0.65
 # metagenes = 6
 # genes = 99
 # genes in genesets = 99
 # genes with $fdr < 0.1$ = 34 (4 + / 30 -)
 # genes with $fdr < 0.05$ = 30 (4 + / 26 -)
 # genes with $fdr < 0.01$ = 26 (3 + / 23 -)
 <r> metagenes = 1
 <r> genes = 0.66
 <FC> = -0.21
 <shrinkage-t> = -7.31
 <p-value> = 0.01
 <fdr> = 0.65

Profile

Spot



Local Genelist

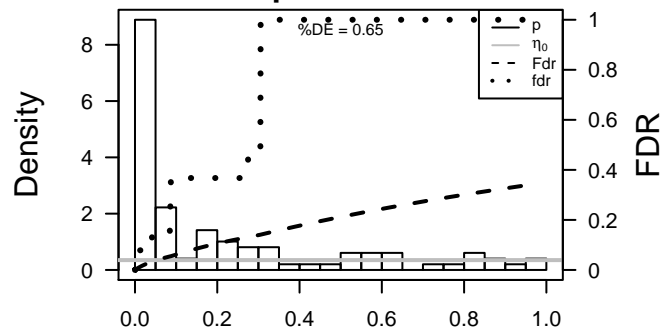
Rank	ID	log(FC)	fdr	p-value	Description
1	58	-1.15	2e-16	8e-15	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
2	1410	0.93	3e-14	5e-10	25 x 1 crystallin, alpha B [Source:HGNC Symbol;Acc:2389]
3	70	-0.83	1e-11	7e-09	25 x 1 actin, alpha, cardiac muscle 1 [Source:HGNC Symbol;Acc:14
4	2318	-0.78	2e-10	5e-07	25 x 1 filamin C, gamma [Source:HGNC Symbol;Acc:3756]
5	4608	-0.69	1e-08	1e-06	25 x 1 myosin binding protein H [Source:HGNC Symbol;Acc:7552]
6	222166	-0.67	5e-08	4e-06	24 x 1 maturin, neural progenitor differentiation regulator homolog (p
7	4151	-0.64	2e-07	4e-06	25 x 1 myoglobin [Source:HGNC Symbol;Acc:6915]
8	1158	-0.63	3e-07	1e-05	25 x 1 creatine kinase, muscle [Source:HGNC Symbol;Acc:1994]
9	6588	-0.61	6e-07	6e-04	25 x 1 sarcolipin [Source:HGNC Symbol;Acc:11089]
10	1013	0.51	3e-05	6e-04	26 x 1 cadherin 15, type 1, M-cadherin (myotubule) [Source:HGNC
11	283120	-0.51	3e-05	6e-04	25 x 1 H19, imprinted maternally expressed transcript (non-protein c
12	4621	-0.5	5e-05	7e-04	25 x 1 myosin, heavy chain 3, skeletal muscle, embryonic [Source:H
13	7134	-0.49	7e-05	3e-03	25 x 1 troponin C type 1 (slow) [Source:HGNC Symbol;Acc:11943]
14	4703	-0.46	2e-04	3e-03	25 x 1 nebulin [Source:HGNC Symbol;Acc:7720]
15	2027	-0.45	2e-04	3e-03	25 x 1 enolase 3 (beta, muscle) [Source:HGNC Symbol;Acc:3354]
16	7140	-0.43	4e-04	3e-03	25 x 1 troponin T type 3 (skeletal, fast) [Source:HGNC Symbol;Acc:1
17	4625	-0.43	5e-04	3e-03	25 x 1 myosin, heavy chain 7, cardiac muscle, beta [Source:HGNC S
18	2273	-0.42	5e-04	5e-03	25 x 1 four and a half LIM domains 1 [Source:HGNC Symbol;Acc:37
19	202333	-0.41	8e-04	5e-03	25 x 1 cardiomyopathy associated 5 [Source:HGNC Symbol;Acc:14
20	10324	-0.41	9e-04	5e-03	25 x 1 kelch-like family member 41 [Source:HGNC Symbol;Acc:169

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-53.16	NULL	23 / 36	BP muscle filament sliding
2	-51.66	NULL	11 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
3	-43.52	NULL	55 / 127	H.Tiss WIRTH_Muscle
4	-39.75	NULL	11 / 16	H.Tiss WIRTH_Hippocampus
5	-38.85	NULL	10 / 12	CC myosin filament
6	-35.1	NULL	21 / 44	MF structural constituent of muscle
7	-27.93	NULL	12 / 37	CC sarcomere
8	-23.1	NULL	3 / 15	Cancer BEN-PORATH_UP
9	-22.85	NULL	6 / 12	BP skeletal muscle contraction
10	-22.81	NULL	8 / 13	CC muscle myosin complex
11	-21.16	NULL	2 / 6	GSEA C2BIOCARTA_HSP27_PATHWAY
12	-19.92	NULL	6 / 18	BP regulation of muscle contraction
13	-19.25	NULL	5 / 11	BP cardiac muscle tissue morphogenesis
14	-19.21	NULL	14 / 34	CC myofibril
15	-18.41	NULL	8 / 16	CC M band
16	-17.89	NULL	9 / 37	BP cardiac muscle contraction
17	-17.76	NULL	7 / 15	GSEA C2REACTOME_STRIATED_MUSCLE_CONTRACTION
18	-17.5	NULL	2 / 20	MF myosin binding
19	-16.99	NULL	23 / 84	BP muscle contraction
20	-15.76	NULL	1 / 5	GSEA C2LIU_VAV3_PROSTATE_CARCINOGENESIS_UP
21	-15.72	NULL	1 / 9	GSEA C2PENG_GLUCOSE_DEPRIVATION_UP
22	-15.72	NULL	1 / 9	GSEA C2PENG_GLUCOSE_DEPRIVATION_DN
23	-15.54	NULL	2 / 10	BP heart contraction
24	-15.02	NULL	3 / 15	BP actin filament-based movement
25	-14.82	NULL	1 / 10	GSEA C2BIOCARTA_EPHA4_PATHWAY
26	-14.69	NULL	2 / 15	BP skeletal muscle fiber development
27	-14.42	NULL	3 / 16	GSEA C2DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_DN
28	-13.99	NULL	2 / 16	GSEA C2SASSON_RESPONSE_TO_GONADOTROPHINS_DN
29	-13.99	NULL	2 / 16	GSEA C2SASSON_RESPONSE_TO_FORSKOLIN_DN
30	-13.45	NULL	2 / 12	BP muscle fiber development
31	-13.38	NULL	1 / 12	GSEA C2BIOCARTA_NO1_PATHWAY
32	-13.38	NULL	1 / 12	GSEA C2BIOCARTA_RAB_PATHWAY
33	-13.37	NULL	8 / 42	CC myosin complex
34	-13.27	NULL	4 / 16	MF microfilament motor activity
35	-12.8	NULL	1 / 13	GSEA C2NING_CHRONIC_OBSTRUCTIVE_PULMONARY_DISEASE_UP
36	-12.8	NULL	1 / 13	GSEA C2BIOCARTA_SALMONELLA_PATHWAY
37	-12.8	NULL	1 / 13	GSEA C2BIOCARTA_NFAT_PATHWAY
38	-12.78	NULL	8 / 14	CC contractile fiber
39	-12.76	NULL	3 / 37	CC actin filament
40	-12.69	NULL	2 / 14	GSEA C2BIOCARTA_UCALPAIN_PATHWAY

p-values



GW_127

Local Summary

%DE = 0.56
 # metagenes = 45
 # genes = 647
 # genes in genesets = 618

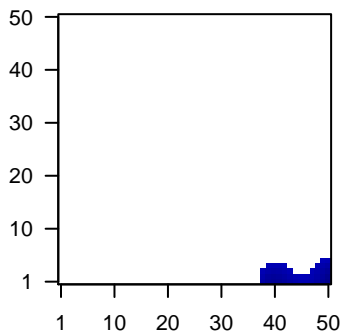
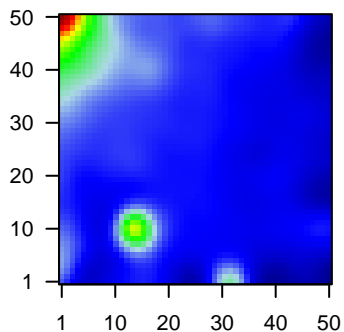
genes with $fdr < 0.1 = 190$ (34 + / 156 -)
 # genes with $fdr < 0.05 = 142$ (27 + / 115 -)
 # genes with $fdr < 0.01 = 73$ (16 + / 57 -)

<r> metagenes = 0.83
 <r> genes = 0.37

<FC> = -0.14
 <shrinkage-t> = -5.04
 <p-value> = 0.02
 <fdr> = 0.73

Profile

Spot



Local Genelist

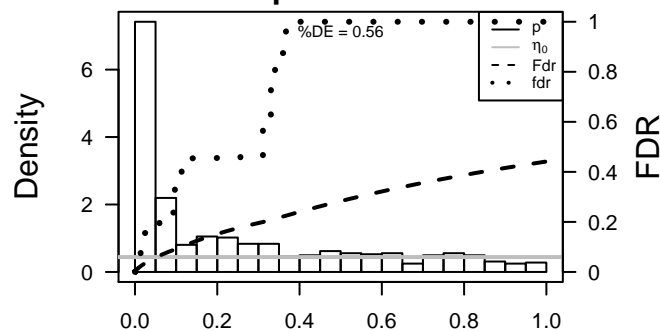
Rank	ID	log(FC)	fdr	p-value	Description
1	618	1.29	2e-16	3e-14	39 x 1 brain cytoplasmic RNA 1 [Source:HGNC Symbol;Acc:1022]
2	260436	-1.1	2e-16	3e-14	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
3	5552	-0.99	4e-16	3e-12	50 x 1 serglycin [Source:HGNC Symbol;Acc:9361]
4	4034	0.95	1e-14	1e-11	43 x 1 leucine-rich repeats and calponin homology (CH) domain cor
5	3127	-0.92	5e-14	4e-11	43 x 1 major histocompatibility complex, class II, DR beta 5 [Source:
6	64005	0.89	2e-13	4e-11	49 x 4 myosin IG [Source:HGNC Symbol;Acc:13880]
7	3128	-0.89	4e-13	4e-11	50 x 1 major histocompatibility complex, class II, DR beta 6 (pseudo
8	23231	-0.88	4e-13	7e-11	48 x 2 sel-1 suppressor of lin-12-like 3 (C. elegans) [Source:HGNC
9	341	-0.88	7e-13	1e-10	50 x 1 apolipoprotein C-I [Source:HGNC Symbol;Acc:607]
10	6364	-0.87	1e-12	4e-09	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc
11	5996	-0.83	1e-11	2e-08	50 x 1 regulator of G-protein signaling 1 [Source:HGNC Symbol;Acc
12	5730	0.79	9e-11	5e-08	50 x 1 prostaglandin D2 synthase 21kDa (brain) [Source:HGNC Syn
13	51326	0.77	3e-10	6e-08	42 x 1 ADP-ribosylation factor-like 17B [Source:HGNC Symbol;Acc
14	3113	-0.76	5e-10	1e-07	50 x 1 major histocompatibility complex, class II, DP alpha 1 [Source
15	3122	-0.7	8e-10	2e-07	50 x 1 major histocompatibility complex, class II, DR alpha [Source:f
16	9056	-0.73	2e-09	2e-07	50 x 1 solute carrier family 7 (amino acid transporter light chain, y+L
17	3620	-0.73	2e-09	7e-07	48 x 1 indoleamine 2,3-dioxygenase 1 [Source:HGNC Symbol;Acc:f
18	3512	-0.71	6e-09	7e-07	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglo
19	347733	-0.7	1e-08	7e-07	50 x 5 tubulin, beta 2B class IIb [Source:HGNC Symbol;Acc:30829]
20	5341	-0.7	1e-08	7e-07	50 x 1 plectstrin [Source:HGNC Symbol;Acc:9070]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-29.6	NULL	14 / 15	CC MHC class II protein complex
2	-17.59	NULL	17 / 47	BP antigen processing and presentation
3	-15.17	NULL	9 / 21	CC clathrin-coated endocytic vesicle membrane
4	-14.44	NULL	9 / 23	CC integral to luminal side of endoplasmic reticulum membrane
5	-14.15	NULL	3 / 6	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_UP
6	-13.29	NULL	10 / 28	CC transport vesicle membrane
7	-12.58	NULL	17 / 87	BP antigen processing and presentation of exogenous peptide antigen
8	-12.07	NULL	9 / 32	CC ER to Golgi transport vesicle membrane
9	-11.94	NULL	11 / 35	CC trans-Golgi network membrane
10	-11.49	NULL	48 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
11	-11.49	NULL	48 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
12	-11.49	NULL	48 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
13	-11.49	NULL	48 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
14	-11.36	NULL	11 / 46	CC endocytic vesicle membrane
15	-10.99	NULL	5 / 12	BP immunoglobulin mediated immune response
16	-10.89	NULL	5 / 11	GSEA C2APPEL_IMATINIB_RESPONSE
17	-10.79	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
18	-10.06	NULL	6 / 12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN
19	-9.98	NULL	2 / 4	GSEA C2REACTOME_CLASSICAL_ANTIBODY_MEDIATED_COMPLEMEN
20	-9.75	NULL	3 / 5	GSEA C2VONG_ENDOMETRIAL_CANCER_LATE
21	-9.73	NULL	3 / 8	GSEA C2INDSTEDT_DENDRITIC_CELL_MATURATION_D
22	-9.55	NULL	2 / 6	GSEA C2LUL_THYROID_CANCER_CLUSTER_4
23	-9.24	NULL	2 / 4	GSEA C2KEGG_LEISHMANIA_INFECTION
24	-8.62	NULL	3 / 10	GSEA C2HOSHIDA_LIVER_CANCER_SUBCLASS_S1
25	-8.39	NULL	67 / 312	BP immune response
26	-8.12	NULL	9 / 52	Chr Chr HSCR6_MHC_QBL
27	-8.09	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
28	-8.04	NULL	5 / 13	MMML C2SCIEJ_MMML_6
29	-8.03	NULL	3 / 14	LymphomaRIGHT_GCB_UP
30	-7.86	NULL	14 / 60	BP interferon-gamma-mediated signaling pathway
31	-7.75	NULL	23 / 215	CC lysosomal membrane
32	-7.66	NULL	4 / 10	GSEA C2LEE_EARLY_T_LYMPHOCYTE_DN
33	-7.63	NULL	3 / 16	GSEA C2KAAB_FAILED_HEART_VENTRICLE_DN
34	-7.47	NULL	3 / 13	GSEA C2CAVARD_LIVER_CANCER_MALIGNANT_VS_BENIGN
35	-7.44	NULL	3 / 11	GSEA C2GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP
36	-7.39	NULL	3 / 16	GSEA C2DAVIES_MULTIPLE_MYELOMA_VS_MGUS_DN
37	-7.37	NULL	2 / 7	GSEA C2BIOCARTA_COMP_PATHWAY
38	-7.26	NULL	3 / 11	GSEA C2WILENSKY_RESPONSE_TO_DARAPLADIB
39	-6.92	NULL	1 / 2	GSEA C2KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUC
40	-6.92	NULL	1 / 2	GSEA C2KEGG_AUTOIMMUNE_THYROID_DISEASE

p-values



GW_127

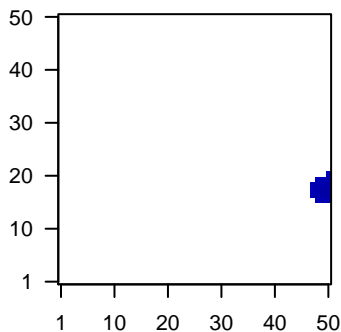
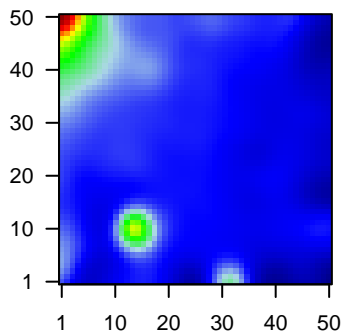
Local Summary

%DE = 0.5
 # metagenes = 19
 # genes = 220
 # genes in genesets = 216
 # genes with $fdr < 0.1$ = 38 (4 + / 34 -)
 # genes with $fdr < 0.05$ = 33 (4 + / 29 -)
 # genes with $fdr < 0.01$ = 18 (4 + / 14 -)

<r> metagenes = 0.98
 <r> genes = 0.33
 <FC> = -0.15
 <shrinkage-t> = -5.2
 <p-value> = 0.05
 <fdr> = 0.77

Profile

Spot



Local Genelist

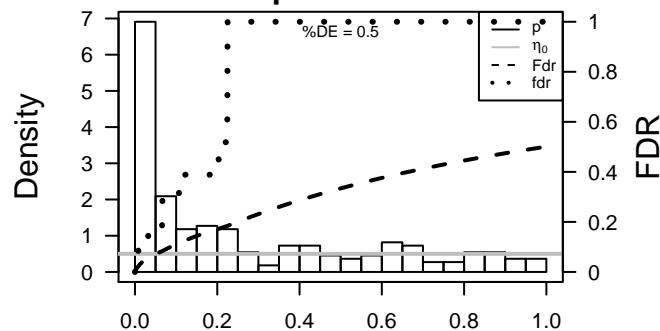
Rank	ID	log(FC)	fdr	p-value	Description
1	9662	1.02	2e-16	2e-14	50 x 19 centrosomal protein 135kDa [Source:HGNC Symbol;Acc:290
2	10439	0.91	1e-13	7e-05	50 x 17 olfactomedin 1 [Source:HGNC Symbol;Acc:17187]
3	3670	0.6	1e-06	7e-05	50 x 17 ISL LIM homeobox 1 [Source:HGNC Symbol;Acc:6132]
4	728715	-0.59	1e-06	1e-04	50 x 18
5	1298	-0.57	2e-06	2e-04	50 x 17 collagen, type IX, alpha 2 [Source:HGNC Symbol;Acc:2218]
6	1875	-0.56	4e-06	1e-03	50 x 17 E2F transcription factor 5, p130-binding [Source:HGNC Sym
7	57639	-0.53	2e-05	1e-03	50 x 16 coiled-coil domain containing 146 [Source:HGNC Symbol;Ac
8	130872	-0.51	3e-05	1e-03	50 x 19 AHA1, activator of heat shock 90kDa protein ATPase homolo
9	6542	-0.5	5e-05	1e-03	50 x 16 solute carrier family 7 (cationic amino acid transporter, y+ sys
10	641638	-0.49	5e-05	1e-03	50 x 18 small nucleolar RNA host gene 6 (non-protein coding) [Sourc
11	54959	-0.49	7e-05	1e-03	50 x 17 odontogenic, ameloblast associated [Source:HGNC Symbol;
12	727	-0.48	8e-05	3e-03	50 x 16 complement component 5 [Source:HGNC Symbol;Acc:1331]
13	55063	-0.47	1e-04	3e-03	50 x 16 zinc finger, CW type with PWWP domain 1 [Source:HGNC Sy
14	79161	-0.46	2e-04	3e-03	49 x 16 transmembrane protein 243, mitochondrial [Source:HGNC Sy
15	6091	0.46	2e-04	3e-03	50 x 17 roundabout, axon guidance receptor, homolog 1 (Drosophila)
16	9204	-0.46	2e-04	5e-03	50 x 19
17	7267	-0.44	3e-04	5e-03	50 x 18 tetratricopeptide repeat domain 3 [Source:HGNC Symbol;Acc
18	4602	-0.44	3e-04	5e-03	50 x 16 v-myb avian myeloblastosis viral oncogene homolog [Source
19	22882	-0.44	3e-04	1e-02	50 x 18 zinc fingers and homeoboxes 2 [Source:HGNC Symbol;Acc:1
20	9603	-0.43	5e-04	1e-02	50 x 18 nuclear factor, erythroid 2-like 3 [Source:HGNC Symbol;Acc:

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-8.43	NULL	2 / 7	GSEA C2KANG_CISPLATIN_RESISTANCE_DN
2	-8	NULL	3 / 13	LymphomBENTINK_mBL UP
3	-7.65	NULL	2 / 10	BP positive regulation of histone H3-K4 methylation
4	-7.52	NULL	3 / 5	LymphomMASCQUE_mBL UP
5	-6.78	NULL	2 / 12	GSEA C2PROVENZANI_METASTASIS_UP
6	-6.5	NULL	1 / 2	miRNA target-153
7	-6.47	NULL	2 / 13	BP natural killer cell differentiation
8	-6.28	NULL	2 / 15	GSEA C2MULLIGHAN_NPM1_MUTATED_SIGNATURE_1_DN
9	-6.28	NULL	2 / 15	GSEA C2MULLIGHAN_NPM1_SIGNATURE_3_DN
10	-6.27	NULL	2 / 11	MF poly(A)-specific ribonuclease activity
11	-6.21	NULL	1 / 7	GSEA C2BIOCARTA_LECTIN_PATHWAY
12	-5.95	NULL	3 / 16	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_UP
13	-5.8	NULL	1 / 2	TF MYC_Chromatin_modification UP
14	-5.67	NULL	2 / 15	GSEA C2MATTIOLI_MULTIPLE_MYELOMA_SUBGROUPS
15	-5.59	NULL	1 / 5	GSEA C2STAEGE_EWING_FAMILY_TUMOR
16	-5.59	NULL	2 / 15	BP embryonic digestive tract development
17	-5.32	NULL	4 / 42	BP B cell differentiation
18	-5.26	NULL	1 / 8	GSEA C2ADDYA_ERYTHROID_DIFFERENTIATION_BY_HEMIN
19	-5.25	NULL	1 / 3	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_18
20	-5.19	NULL	1 / 9	GSEA C2MONTERO_THYROID_CANCER_POOR_SURVIVAL_DN
21	-5.15	NULL	4 / 29	TF TissueAQUERIZAS_Lymph node
22	-5.12	NULL	1 / 10	BP positive regulation of chemotaxis
23	-5.11	NULL	2 / 16	GSEA C2REACTOME_DEADENYLATION_OF_MRNA
24	-5.1	NULL	1 / 8	GSEA C2BENPORATH_ES_CORE_NINE
25	-5.07	NULL	2 / 16	BP cytolysis
26	-5.02	NULL	2 / 13	GSEA C2BIDUS_METASTASIS_DN
27	-5	NULL	1 / 8	GSEA C2REACTOME_IONOTROPIC_ACTIVITY_OF_KAINATE_RECEPTO
28	-5	NULL	1 / 14	GSEA C2CAIRO_HEPATOBLASTOMA_POOR_SURVIVAL
29	-4.97	NULL	3 / 13	BP histone H4-K16 acetylation
30	-4.94	NULL	1 / 9	GSEA C2BASSO_CD40_SIGNALING_UP
31	-4.94	NULL	1 / 9	GSEA C2GUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_2
32	-4.91	NULL	3 / 21	TF TissueAQUERIZAS_Tonsil
33	-4.86	NULL	9 / 81	miRNA target-153
34	-4.81	NULL	1 / 15	Cancer RHODES_CANCER_META_SIGNATURE
35	-4.81	NULL	1 / 15	GSEA C2REACTOME_G1_PHASE
36	-4.81	NULL	2 / 14	GSEA C2MAYBURD_RESPONSE_TO_L663536_UP
37	-4.79	NULL	1 / 12	BP nitric oxide biosynthetic process
38	-4.77	NULL	3 / 34	BP thymus development
39	-4.75	NULL	2 / 15	GSEA C2HUMMEL_BURKITTIS_LYMPHOMA_UP
40	-4.75	NULL	2 / 7	GSEA C2LOPEZ_MESOTHELIOMA_SURVIVAL_OVERALL_UP

p-values



GW_127

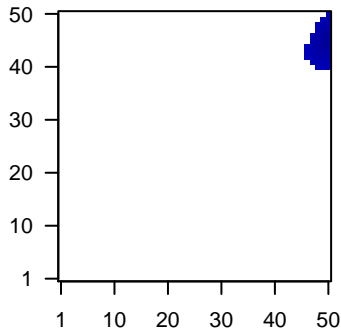
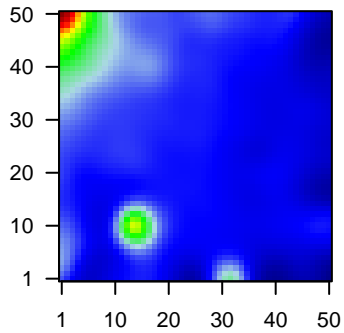
Local Summary

%DE = 0.59
 # metagenes = 39
 # genes = 429
 # genes in genesets = 424
 # genes with $fdr < 0.1 = 116$ (22 + / 94 -)
 # genes with $fdr < 0.05 = 79$ (17 + / 62 -)
 # genes with $fdr < 0.01 = 40$ (9 + / 31 -)

<r> metagenes = 0.91
 <r> genes = 0.2
 <FC> = -0.14
 <shrinkage-t> = -4.8
 <p-value> = 0.03
 <fdr> = 0.76

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	2944	1.04	2e-16	1e-14	50 x 50 glutathione S-transferase mu 1 [Source:HGNC Symbol;Acc:4
2	84223	1.15	2e-16	1e-14	47 x 46 IQ motif containing G [Source:HGNC Symbol;Acc:25251]
3	4922	-1.23	2e-16	1e-14	50 x 50 neurotensin [Source:HGNC Symbol;Acc:8038]
4	339512	-0.98	9e-16	8e-10	50 x 50 chromosome 1 open reading frame 110 [Source:HGNC Symt
5	875	-0.85	4e-12	1e-09	49 x 47 cystathionine-beta-synthase [Source:HGNC Symbol;Acc:15
6	139728	-0.83	1e-11	4e-08	49 x 49 pregnancy up-regulated nonubiquitous CaM kinase [Source:l
7	10655	-0.77	2e-10	3e-07	50 x 50 doublesex and mab-3 related transcription factor 2 [Source:H
8	8492	0.73	2e-09	1e-06	50 x 47 protease, serine, 12 (neurotrypsin, motopsin) [Source:HGNC
9	445	0.7	9e-09	4e-06	50 x 47 argininosuccinate synthase 1 [Source:HGNC Symbol;Acc:75
10	114926	-0.66	5e-08	4e-06	50 x 46 small integral membrane protein 19 [Source:HGNC Symbol;A
11	23514	-0.66	6e-08	4e-06	50 x 48 scaffolding protein involved in DNA repair [Source:HGNC Syr
12	51060	-0.66	7e-08	2e-05	50 x 42 thioredoxin domain containing 12 (endoplasmic reticulum) [Sc
13	4856	-0.63	3e-07	2e-05	50 x 40 nephroblastoma overexpressed [Source:HGNC Symbol;Acc:7
14	51804	-0.62	4e-07	2e-05	50 x 46 SIX homeobox 4 [Source:HGNC Symbol;Acc:10890]
15	11166	0.61	6e-07	2e-05	50 x 50 SRY (sex determining region Y)-box 21 [Source:HGNC Symt
16	3205	-0.61	6e-07	1e-04	49 x 45 homeobox A9 [Source:HGNC Symbol;Acc:5109]
17	84171	-0.58	2e-06	1e-04	50 x 49 lysyl oxidase-like 4 [Source:HGNC Symbol;Acc:17171]
18	64757	-0.58	2e-06	2e-04	48 x 47 mitochondrial amidoxime reducing component 1 [Source:HG
19	79679	-0.56	4e-06	2e-04	50 x 50 V-set domain containing T cell activation inhibitor 1 [Source:t
20	7345	-0.56	4e-06	2e-04	50 x 46 ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesteras

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-12.9	NULL	4 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
2	-12.59	NULL	2 / 11	Glio neurons_glio
3	-11.16	NULL	4 / 13	BP regulation of blood vessel size
4	-9.72	NULL	3 / 12	GSEA C2HELLER_SILENCED_BY_METHYLATION_DN
5	-8.72	NULL	2 / 7	GSEA C2MCCOLLUM_GELDANAMYCIN_RESISTANCE_DN
6	-8.6	NULL	5 / 15	GSEA C2KIM_MYCN_AMPLIFICATION_TARGETS_DN
7	-8.27	NULL	2 / 14	GSEA C2KEGG_GLYCINE_SERINE_AND_THREONINE_METABOLISM
8	-7.96	NULL	3 / 16	GSEA C2GARASHI_ATF4_TARGETS_DN
9	-7.87	NULL	2 / 12	GSEA C2KAYO_AGING_MUSCLE_UP
10	-7.76	NULL	1 / 6	GSEA C2SHARMA_PILOCYTIC_ASTROCYTOMA_LOCATION_DN
11	-7.67	NULL	3 / 15	GSEA C2JDAYAKUMAR_MED1_TARGETS_UP
12	-7.53	NULL	2 / 13	GSEA C2BLUM_RESPONSE_TO_SALIRASIB_UP
13	-7.52	NULL	2 / 9	GSEA C2NIKOLSKY_BREAST_CANCER_7P15_AMPLICON
14	-7.35	NULL	2 / 16	GSEA C2KEGG_SELENOAMINO_ACID_METABOLISM
15	-6.99	NULL	3 / 15	GSEA C2PELLICCIOTTA_HDAC_IN_ANTIGEN_PRESENTATION_UP
16	-6.98	NULL	3 / 18	BP superoxide metabolic process
17	-6.97	NULL	1 / 15	MF neuropeptide hormone activity
18	-6.96	NULL	2 / 15	GSEA C2KRIGE_AMINO_ACID_DEPRIVATION
19	-6.96	NULL	4 / 16	GSEA C2BILD_E2F3_ONCOGENIC_SIGNATURE
20	-6.78	NULL	2 / 10	BP anatomical structure development
21	-6.72	NULL	2 / 16	GSEA C2GAJATE_RESPONSE_TO TRABECTEDIN_UP
22	-6.71	NULL	1 / 2	miRNA target-129
23	-6.68	NULL	4 / 37	BP embryonic skeletal system development
24	-6.64	NULL	1 / 8	GSEA C2BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_UP
25	-6.13	NULL	1 / 5	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_29
26	-6.13	NULL	1 / 5	miRNA target-126
27	-6.05	NULL	1 / 8	GSEA C2NIELSEN_LIPOSARCOMA_UP
28	-5.96	NULL	3 / 31	BP response to nutrient levels
29	-5.92	NULL	2 / 14	MF calmodulin-dependent protein kinase activity
30	-5.74	NULL	3 / 10	GSEA C2HANN_RESISTANCE_TO_BCL2_INHIBITOR_DN
31	-5.7	NULL	3 / 15	GSEA C2PRAMOONJAGO_SOX4_TARGETS_DN
32	-5.66	NULL	2 / 15	Cancer BEN-PORATH_UP
33	-5.57	NULL	1 / 11	GSEA C2BENPORATH_MYC_TARGETS_WITH_EBOX
34	-5.57	NULL	1 / 11	GSEA C2TARTE_PLASMA_CELL_VS_PLASMABLAST_UP
35	-5.57	NULL	1 / 11	GSEA C2HELLER_HDAC_TARGETS_DN
36	-5.57	NULL	1 / 11	GSEA C2HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_DN
37	-5.56	NULL	2 / 5	GSEA C2TURASHVILI_BREAST_CARCINOMA_DUCTAL_VS_LOBULAR
38	-5.54	NULL	3 / 16	GSEA C2KAN_RESPONSE_TO_ARSENIC_TRIOXIDE
39	-5.42	NULL	2 / 10	MF omega peptidase activity
40	-5.4	NULL	2 / 15	BP spinal cord development

p-values

