

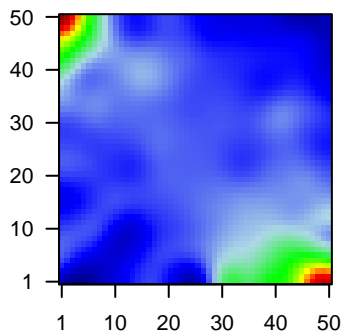
GW_085

Global Summary

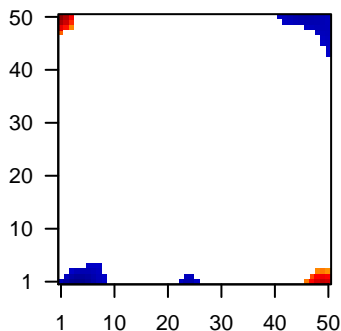
%DE = 0.13
 # genes with fdr < 0.2 = 1664 (1006 + / 658 -)
 # genes with fdr < 0.1 = 1302 (820 + / 482 -)
 # genes with fdr < 0.05 = 1097 (716 + / 381 -)
 # genes with fdr < 0.01 = 778 (541 + / 237 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.11
 <fdr> = 0.87

Profile



Regulated Spots



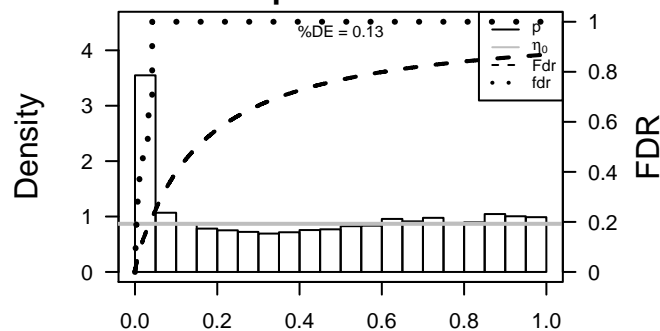
Global Genelist

Rank	ID	log(FC)	fdr p-value	Description Metagene
1	58	-1.44	2e-16 3e-14	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
2	401138	2.58	2e-16 3e-14	1 x 5 amelanin [Source:HGNC Symbol;Acc:33188]
3	55107	1.48	2e-16 3e-14	1 x 5 anoctamin 1, calcium activated chloride channel [Source:HGNC
4	23120	1.09	2e-16 3e-14	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543
5	387695	1.17	2e-16 3e-14	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
6	375791	1.25	2e-16 3e-14	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
7	760	1.36	2e-16 3e-14	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
8	57172	1.42	2e-16 3e-14	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
9	84290	1.15	2e-16 3e-14	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
10	6363	2.47	2e-16 3e-14	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc
11	8900	1.58	2e-16 3e-14	1 x 42 cyclin A1 [Source:HGNC Symbol;Acc:1577]
12	1236	1.19	2e-16 3e-14	50 x 1 chemokine (C-C motif) receptor 7 [Source:HGNC Symbol;Ac
13	930	1.44	2e-16 3e-14	49 x 1 CD19 molecule [Source:HGNC Symbol;Acc:1633]
14	919	1.09	2e-16 3e-14	50 x 1 CD247 molecule [Source:HGNC Symbol;Acc:1677]
15	915	1.3	2e-16 3e-14	49 x 1 CD3d molecule, delta (CD3-TCR complex) [Source:HGNC S
16	1048	1.47	2e-16 3e-14	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
17	1117	1.39	2e-16 3e-14	48 x 4 chitinase 3-like 2 [Source:HGNC Symbol;Acc:1933]
18	22802	1.64	2e-16 3e-14	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
19	9071	1.76	2e-16 3e-14	50 x 12 claudin 10 [Source:HGNC Symbol;Acc:2033]
20	84518	1.58	2e-16 3e-14	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	23.34	NULL	135	H.Tiss WIRTH_Mucosa
2	19.74	NULL	572	Disease GUDJ_psooriasis up
3	15.85	NULL	417	H.Tiss WIRTH_Immune system
4	14.93	NULL	42	BP keratinization
5	14.17	NULL	21	CC cornified envelope
6	13.01	NULL	76	BP epidermis development
7	12.1	NULL	553	Cancer Lembecke_Colonic Inflammation
8	11.97	NULL	312	BP immune response
9	10.9	NULL	53	BP keratinocyte differentiation
10	9.3	NULL	74	BP regulation of immune response
11	8.66	NULL	15	GSEA C2IN_SILENCED_BY_TUMOR_MICROENVIRONMENT
12	8.37	NULL	2659	CC plasma membrane
13	7.9	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
14	7.74	NULL	162	CC external side of plasma membrane
15	7.69	NULL	15	Glio Donson-chemokines/cytokines-associated with LTS in HGA
16	7.67	NULL	12	GSEA C2BIOCARTA_CTL_PATHWAY
17	7.58	NULL	5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
18	7.38	NULL	15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
19	7.36	NULL	11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
20	7.36	NULL	316	Cancer SPANG_BCL6-index2
<i>Underexpressed</i>				
1	-8.48	NULL	127	H.Tiss WIRTH_Muscle
2	-8.19	NULL	36	BP muscle filament sliding
3	-8.18	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
4	-8	NULL	1033	Chr Chr 2
5	-7.69	NULL	449	Chr Chr 20
6	-6.53	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
7	-6.45	NULL	44	MF structural constituent of muscle
8	-6.18	NULL	743	Chr Chr 7
9	-5.95	NULL	16	H.Tiss WIRTH_Hippocampus
10	-5.85	NULL	142	Glio willscher_GBM_Verhaak-CL_expression_C_up
11	-5.85	NULL	142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
12	-5.4	NULL	16	MMML C6SCIEJ_MMML 1
13	-5.34	NULL	37	BP collagen fibril organization
14	-5.27	NULL	375	Disease GUDJ_psooriasis down
15	-4.79	NULL	12	CC myosin filament
16	-4.69	NULL	11	MMML C6SCIEJ_MMML 31
17	-4.49	NULL	7	MMML C6SCIEJ_MMML 13
18	-4.44	NULL	37	CC sarcomere
19	-4.4	NULL	84	BP muscle contraction
20	-4.24	NULL	914	Chr Chr 3

p-values



GW_085

Local Summary

%DE = 0.87
 # metagenes = 12
 # genes = 236
 # genes in genesets = 234

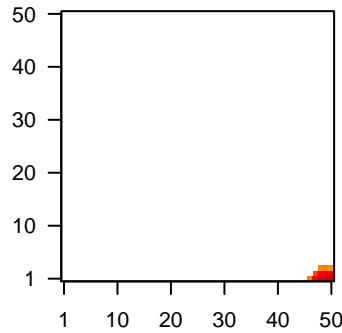
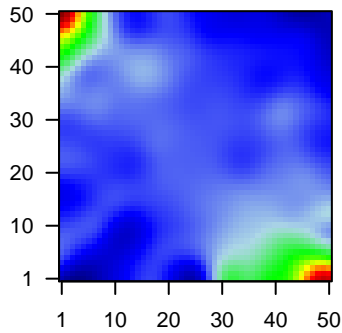
 # genes with $fdr < 0.1$ = 181 (180 + / 1 -)
 # genes with $fdr < 0.05$ = 181 (180 + / 1 -)
 # genes with $fdr < 0.01$ = 166 (165 + / 1 -)

<r> metagenes = 0.99
 <r> genes = 0.62

 <FC> = 0.57
 <shrinkage-t> = 19.98
 <p-value> = 0
 <fdr> = 0.26

Profile

Spot



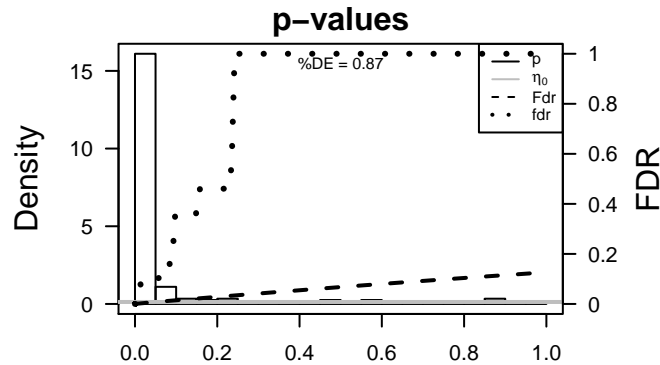
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	57172	1.42	2e-16	3e-16	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HGNC Symbol;Acc:1633]
2	6363	2.47	2e-16	3e-16	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc:1633]
3	1236	1.19	2e-16	3e-16	50 x 1 chemokine (C-C motif) receptor 7 [Source:HGNC Symbol;Acc:1633]
4	930	1.44	2e-16	3e-16	49 x 1 CD19 molecule [Source:HGNC Symbol;Acc:1633]
5	919	1.09	2e-16	3e-16	50 x 1 CD247 molecule [Source:HGNC Symbol;Acc:1677]
6	915	1.3	2e-16	3e-16	49 x 1 CD3d molecule, delta (CD3-TCR complex) [Source:HGNC Symbol;Acc:1633]
7	51755	1.12	2e-16	3e-16	49 x 1 cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:242]
8	4283	1.99	2e-16	3e-16	49 x 1 chemokine (C-X-C motif) ligand 9 [Source:HGNC Symbol;Acc:1633]
9	54855	1.38	2e-16	3e-16	49 x 1 family with sequence similarity 46, member C [Source:HGNC Symbol;Acc:1633]
10	115361	1.19	2e-16	3e-16	48 x 1 guanylate binding protein 4 [Source:HGNC Symbol;Acc:2048]
11	3512	1.27	2e-16	3e-16	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglobulin J [Source:HGNC Symbol;Acc:1633]
12	3543	1.24	2e-16	3e-16	49 x 1 immunoglobulin lambda-like polypeptide 1 [Source:HGNC Symbol;Acc:1633]
13	91353	1.58	2e-16	3e-16	48 x 1 immunoglobulin lambda-like polypeptide 2 [Source:HGNC Symbol;Acc:1633]
14	126306	1.32	2e-16	3e-16	49 x 1 junctional sarcoplasmic reticulum protein 1 [Source:HGNC Symbol;Acc:1633]
15	4050	1.5	2e-16	3e-16	50 x 1 lymphotoxin beta (TNF superfamily, member 3) [Source:HGNC Symbol;Acc:1633]
16	11040	1.56	2e-16	3e-16	49 x 1 pim-2 oncogene [Source:HGNC Symbol;Acc:8987]
17	5730	1.64	2e-16	3e-16	50 x 1 prostaglandin D2 synthase 21kDa (brain) [Source:HGNC Symbol;Acc:1633]
18	5790	1.15	2e-16	3e-16	49 x 1 protein tyrosine phosphatase, receptor type, C-associated [Source:HGNC Symbol;Acc:1633]
19	9806	1.17	2e-16	3e-16	50 x 1 sparco/osteonectin, cwcv and kazal-like domains proteoglycan 1 [Source:HGNC Symbol;Acc:1633]
20	10537	2.23	2e-16	3e-16	50 x 1 ubiquitin D [Source:HGNC Symbol;Acc:18795]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	31.45	NULL	86 / 417	H.Tiss WIRTH_Immune system
2	28.79	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
3	25.29	NULL	85 / 553	Cancer Lembcke_Colonc Inflammation
4	23.89	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
5	22.17	NULL	2 / 4	MMML C2GACIEJ_MMML_2
6	20.56	NULL	6 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
7	20.31	NULL	5 / 12	BP dendritic cell chemotaxis
8	20.11	NULL	49 / 312	BP immune response
9	19.73	NULL	5 / 15	Glio Donson-chemokines/cytokines-associated with LTS in HGA
10	19.66	NULL	12 / 15	CC MHC class II protein complex
11	19.08	NULL	5 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
12	19.02	NULL	3 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
13	18.88	NULL	5 / 17	BP positive regulation of neutrophil chemotaxis
14	18.29	NULL	5 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
15	16.81	NULL	3 / 9	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_DN
16	16.37	NULL	7 / 15	GSEA C2FINAK_BREAST_CANCER_SDP_SDP_SIGNATURE
17	16.07	NULL	5 / 13	Cancer GENTLES_modul18
18	15.86	NULL	4 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN
19	15.06	NULL	14 / 60	BP T cell costimulation
20	14.45	NULL	2 / 10	BP positive regulation of chemotaxis
21	14.38	NULL	25 / 162	CC external side of plasma membrane
22	14.22	NULL	16 / 74	BP regulation of immune response
23	14.15	NULL	4 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HGA
24	14.08	NULL	5 / 13	GSEA C2HAHTOLA_CTL_PATHOGENESIS
25	13.93	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
26	13.8	NULL	4 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
27	13.4	NULL	4 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_ACCEPTED
28	13.27	NULL	3 / 8	GSEA C2REACTOME_IMMUNOREGULATORY_INTERACTIONS_BETWEEN_T_AND_B_CELLS
29	13.19	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
30	13.13	NULL	4 / 13	GSEA C2BIOCARTA_IL17_PATHWAY
31	13.02	NULL	4 / 22	BP positive regulation of interleukin-12 production
32	13	NULL	2 / 12	BP positive regulation of receptor-mediated endocytosis
33	12.94	NULL	5 / 11	BP positive regulation of B cell differentiation
34	12.94	NULL	7 / 43	MF chemokine activity
35	12.64	NULL	4 / 27	BP release of sequestered calcium ion into cytosol
36	12.4	NULL	3 / 22	BP positive regulation of phosphatidylinositol 3-kinase activity
37	12.34	NULL	3 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
38	12.32	NULL	8 / 16	GSEA C2SU_THYMUS
39	12.12	NULL	9 / 43	BP positive regulation of T cell proliferation
40	11.93	NULL	4 / 14	GSEA C2FINETTI_BREAST_CANCER_KINOME_GREEN



GW_085

Local Summary

%DE = 0.83
 # metagenes = 10
 # genes = 162
 # genes in genesets = 157

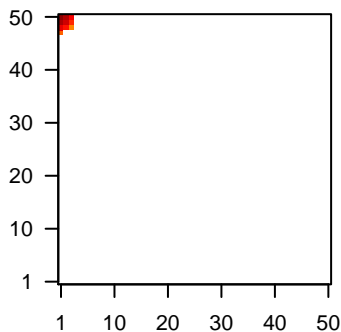
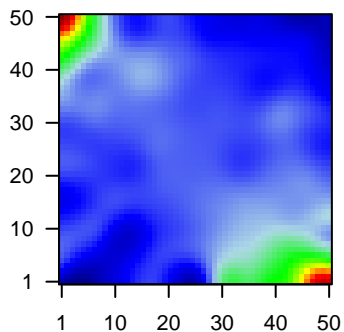
genes with $fdr < 0.1 = 124$ (118 + / 6 -)
 # genes with $fdr < 0.05 = 124$ (118 + / 6 -)
 # genes with $fdr < 0.01 = 120$ (114 + / 6 -)

<r> metagenes = 0.98
 <r> genes = 0.49

<FC> = 0.7
 <shrinkage-t> = 24.66
 <p-value> = 0
 <fdr> = 0.22

Profile

Spot



Local Genelist

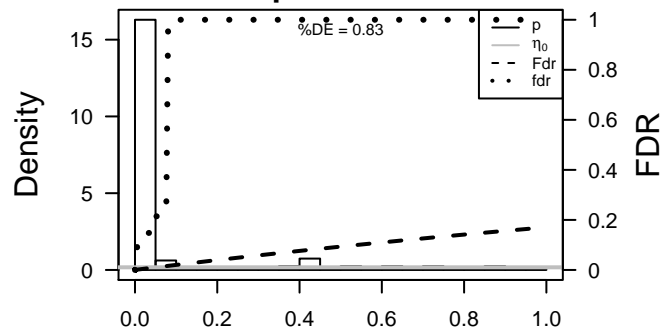
Rank	ID	log(FC)	fdr	p-value	Description
1	23120	1.09	2e-16	2e-16	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543]
2	387695	1.17	2e-16	2e-16	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
3	375791	1.25	2e-16	2e-16	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
4	84290	1.15	2e-16	2e-16	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
5	1048	1.47	2e-16	2e-16	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
6	22802	1.64	2e-16	2e-16	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
7	84518	1.58	2e-16	2e-16	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
8	49860	1.47	2e-16	2e-16	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
9	1673	1.15	2e-16	2e-16	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
10	131177	1.45	2e-16	2e-16	3 x 50 family with sequence similarity 3, member D [Source:HGNC
11	163351	1.31	2e-16	2e-16	1 x 50 guanylate binding protein family, member 6 [Source:HGNC S
12	2941	1.72	2e-16	2e-16	3 x 50 glutathione S-transferase alpha 4 [Source:HGNC Symbol;Ac
13	26085	1.47	2e-16	2e-16	1 x 50 kallikrein-related peptidase 13 [Source:HGNC Symbol;Acc:6
14	5653	1.52	2e-16	2e-16	1 x 50 kallikrein-related peptidase 6 [Source:HGNC Symbol;Acc:63
15	3860	1.65	2e-16	2e-16	1 x 50 keratin 13 [Source:HGNC Symbol;Acc:6415]
16	192666	2.72	2e-16	2e-16	1 x 50 keratin 24 [Source:HGNC Symbol;Acc:18527]
17	3851	2.87	2e-16	2e-16	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]
18	196374	1.12	2e-16	2e-16	1 x 50 keratin 78 [Source:HGNC Symbol;Acc:28926]
19	388533	1.62	2e-16	2e-16	1 x 49 keratinocyte differentiation-associated protein [Source:HGNC
20	84648	1.49	2e-16	2e-16	1 x 48 late cornified envelope 3D [Source:HGNC Symbol;Acc:16615]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	51.68	NULL	68 / 135	H.Tiss WIRTH_Mucosa
2	38	NULL	15 / 21	CC cornified envelope
3	33.98	NULL	18 / 42	BP keratinization
4	26.85	NULL	20 / 53	BP keratinocyte differentiation
5	21.76	NULL	18 / 76	BP epidermis development
6	21.63	NULL	74 / 572	Disease GUDJ_psooriasis up
7	19.45	NULL	8 / 19	BP peptide cross-linking
8	18.15	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
9	18.07	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
10	17.05	NULL	6 / 16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
11	11.35	NULL	5 / 10	MF RAGE receptor binding
12	11.28	NULL	2 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
13	11.21	NULL	5 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
14	10.95	NULL	11 / 122	MF serine-type endopeptidase activity
15	10.85	NULL	3 / 16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
16	10.78	NULL	17 / 186	MF structural molecule activity
17	10.72	NULL	3 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
18	10.14	NULL	2 / 15	GSEA C2ALONSO_METASTASIS_NEURAL_UP
19	9.79	NULL	10 / 82	CC intermediate filament
20	9.7	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP
21	9.44	NULL	8 / 44	CC keratin filament
22	9.21	NULL	1 / 6	GSEA C2SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN
23	9.19	NULL	2 / 17	Disease BCHETNIA_EBM up
24	9.17	NULL	1 / 11	Glio VERHAAK_Brain
25	8.94	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
26	8.74	NULL	6 / 13	BP negative regulation of peptidase activity
27	8.7	NULL	1 / 12	MF channel activity
28	8.36	NULL	3 / 15	GSEA C2CHANG_IMMORTALIZED_BY_HPV31_DN
29	8.3	NULL	1 / 13	GSEA C2HASLINGER_B_CELL_WITH_MUTATED_VH_GENES
30	8.26	NULL	45 / 1182	CC extracellular region
31	7.98	NULL	5 / 38	BP epithelial cell differentiation
32	7.96	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
33	7.81	NULL	7 / 15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
34	7.61	NULL	1 / 15	BP positive regulation of extrinsic apoptotic signaling pathway via deat
35	7.61	NULL	1 / 15	GSEA C2BIOCARTA_MAL_PATHWAY
36	7.33	NULL	1 / 16	Cancer GENTLES_modul11
37	7.32	NULL	10 / 79	MF serine-type endopeptidase inhibitor activity
38	7.27	NULL	5 / 21	CC desmosome
39	7.16	NULL	2 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LIVER_UP
40	7.12	NULL	2 / 38	BP myelination

p-values



GW_085

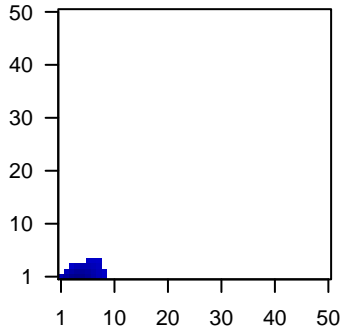
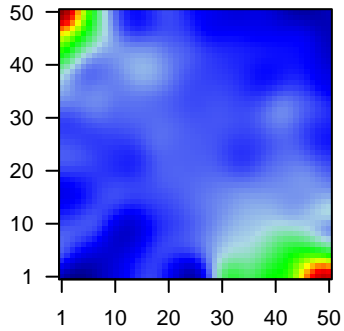
Local Summary

%DE = 0.56
 # metagenes = 26
 # genes = 382
 # genes in genesets = 377
 # genes with $fdr < 0.1$ = 136 (11 + / 125 -)
 # genes with $fdr < 0.05$ = 95 (6 + / 89 -)
 # genes with $fdr < 0.01$ = 79 (6 + / 73 -)

<r> metagenes = 0.96
 <r> genes = 0.38
 <FC> = -0.2
 <shrinkage-t> = -7.17
 <p-value> = 0.01
 <fdr> = 0.66

Profile

Spot



Local Genelist

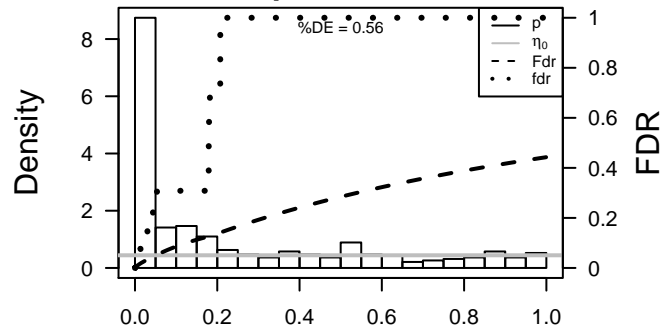
Rank	ID	log(FC)	fdr	p-value	Description
1	10962	-1.3	2e-16	8e-15	5 x 1 myeloid/lymphoid or mixed-lineage leukemia (trithorax homol
2	4316	-1.32	2e-16	8e-15	2 x 1 matrix metalloproteinase 7 (matrilysin, uterine) [Source:HGNC
3	4318	1.73	2e-16	8e-15	1 x 1 matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 9:
4	12	-1.21	2e-16	8e-15	1 x 1
5	9697	1.11	2e-16	8e-15	8 x 1 translocation associated membrane protein 2 [Source:HGNC
6	1290	-1.02	1e-14	1e-11	2 x 1 collagen, type V, alpha 2 [Source:HGNC Symbol;Acc:2210]
7	3576	-0.99	9e-14	1e-11	1 x 1 interleukin 8 [Source:HGNC Symbol;Acc:6025]
8	1281	-0.9	1e-13	6e-10	2 x 1 collagen, type III, alpha 1 [Source:HGNC Symbol;Acc:2201]
9	25805	-0.92	3e-12	1e-09	8 x 1 BMP and activin membrane-bound inhibitor [Source:HGNC S
10	55714	0.9	9e-12	3e-09	1 x 1 teneurin transmembrane protein 3 [Source:HGNC Symbol;Ac
11	7058	-0.88	3e-11	1e-08	2 x 1 thrombospondin 2 [Source:HGNC Symbol;Acc:11786]
12	8076	-0.86	9e-11	1e-08	4 x 1 microfibrillar associated protein 5 [Source:HGNC Symbol;Acc
13	1278	-0.85	2e-10	1e-08	2 x 1 collagen, type I, alpha 2 [Source:HGNC Symbol;Acc:2198]
14	6678	-0.84	2e-10	1e-08	3 x 1 secreted protein, acidic, cysteine-rich (osteonectin) [Source:t
15	4320	-0.83	3e-10	3e-08	3 x 1 matrix metalloproteinase 11 (stromelysin 3) [Source:HGNC Sy
16	118429	0.82	5e-10	3e-07	2 x 1 anthrax toxin receptor 2 [Source:HGNC Symbol;Acc:21732]
17	8463	-0.78	4e-09	3e-07	8 x 3 TEA domain family member 2 [Source:HGNC Symbol;Acc:11
18	7169	-0.77	5e-09	3e-07	3 x 1 tropomyosin 2 (beta) [Source:HGNC Symbol;Acc:12011]
19	7130	-0.77	6e-09	3e-07	1 x 1 tumor necrosis factor, alpha-induced protein 6 [Source:HGNC
20	84624	-0.76	8e-09	3e-06	3 x 1 fibronectin type III domain containing 1 [Source:HGNC Symb

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-28.98	NULL	14 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
2	-26.13	NULL	14 / 16	MMML C6ACIEJ_MMML 1
3	-21.06	NULL	94 / 250	LymphomaENZ_Stromal signature 1
4	-20.89	NULL	15 / 37	BP collagen fibril organization
5	-20.79	NULL	71 / 190	CC extracellular matrix
6	-19.24	NULL	8 / 11	MF platelet-derived growth factor binding
7	-17.75	NULL	24 / 57	MF extracellular matrix structural constituent
8	-17.72	NULL	4 / 5	GSEA C2COLLER_MYC_TARGETS_DN
9	-17.51	NULL	8 / 12	miRNA target-29c
10	-16.11	NULL	62 / 242	BP extracellular matrix organization
11	-14.53	NULL	27 / 69	BP extracellular matrix disassembly
12	-14.12	NULL	23 / 64	BP collagen catabolic process
13	-13.38	NULL	74 / 553	Cancer Lembecke_Colonc Inflammation
14	-13.29	NULL	45 / 183	CC proteinaceous extracellular matrix
15	-13.29	NULL	6 / 13	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR
16	-12.94	NULL	5 / 15	GSEA C2TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_DUCTAL_NC
17	-12.71	NULL	2 / 8	GSEA C2OSAWA_TNF_TARGETS
18	-12.4	NULL	5 / 10	GSEA C2JEON_SMAD6_TARGETS_UP
19	-12.31	NULL	82 / 683	CC extracellular space
20	-12.23	NULL	21 / 119	LymphomaBOSOWSKI_green total
21	-12.07	NULL	9 / 40	BP cellular response to amino acid stimulus
22	-12.03	NULL	6 / 11	MMML C6ACIEJ_MMML 31
23	-12.03	NULL	2 / 7	GSEA C2WANG_ESOPHAGUS_CANCER_PROGRESSION_UP
24	-12	NULL	7 / 15	GSEA C2VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP
25	-11.92	NULL	110 / 1182CC	extracellular region
26	-11.87	NULL	41 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
27	-11.87	NULL	41 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
28	-11.87	NULL	41 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
29	-11.87	NULL	41 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
30	-11.72	NULL	6 / 13	GSEA C2PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
31	-11.61	NULL	24 / 153	CC endoplasmic reticulum lumen
32	-11.06	NULL	10 / 19	MF extracellular matrix binding
33	-11	NULL	1 / 5	GSEA C2ZEMBUTSU_SENSITIVITY_TO_NIMUSTINE
34	-10.85	NULL	8 / 16	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_NC
35	-10.84	NULL	1 / 3	GSEA C2REN_MIF_TARGETS_DN
36	-10.82	NULL	12 / 68	Glio cultured astroglia vs. in vivo astrocytes
37	-10.73	NULL	6 / 10	GSEA C2KEGG_ECM_RECEPTOR_INTERACTION
38	-10.47	NULL	5 / 10	GSEA C2MAINA_VHL_TARGETS_UP
39	-10.22	NULL	4 / 13	GSEA C2BRUECKNER_TARGETS_OF_MIRLET7A3_DN
40	-10	NULL	4 / 15	GSEA C2RODWELL_AGING_KIDNEY_NO_BLOOD_UP

p-values



GW_085

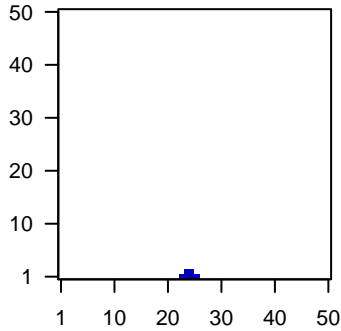
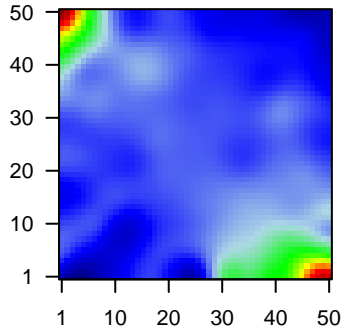
Local Summary

%DE = 0.81
 # metagenes = 6
 # genes = 99
 # genes in genesets = 99
 # genes with $fdr < 0.1$ = 64 (3 + / 61 -)
 # genes with $fdr < 0.05$ = 49 (1 + / 48 -)
 # genes with $fdr < 0.01$ = 35 (1 + / 34 -)

<r> metagenes = 1
 <r> genes = 0.66
 <FC> = -0.33
 <shrinkage-t> = -11.68
 <p-value> = 0
 <fdr> = 0.55

Profile

Spot



Local Genelist

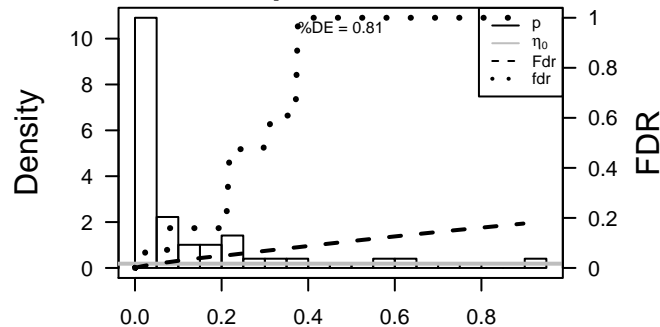
Rank	ID	log(FC)	fdr	p-value	Description
1	58	-1.44	2e-16	2e-15	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
2	6588	-1.24	2e-16	2e-15	25 x 1 sarcolipin [Source:HGNC Symbol;Acc:11089]
3	70	-0.99	8e-14	8e-11	25 x 1 actin, alpha, cardiac muscle 1 [Source:HGNC Symbol;Acc:14
4	4703	-0.92	4e-12	1e-10	25 x 1 nebulin [Source:HGNC Symbol;Acc:7720]
5	1917	-0.9	1e-11	3e-09	25 x 1 eukaryotic translation elongation factor 1 alpha 2 [Source:HG
6	1158	-0.85	2e-10	5e-08	25 x 1 creatine kinase, muscle [Source:HGNC Symbol;Acc:1994]
7	4151	-0.78	3e-09	1e-07	25 x 1 myoglobin [Source:HGNC Symbol;Acc:6915]
8	7060	-0.75	1e-08	1e-07	25 x 1 thrombospondin 4 [Source:HGNC Symbol;Acc:11788]
9	1410	-0.75	2e-08	2e-06	25 x 1 crystallin, alpha B [Source:HGNC Symbol;Acc:2389]
10	4608	-0.7	1e-07	9e-06	25 x 1 myosin binding protein H [Source:HGNC Symbol;Acc:7552]
11	10324	-0.66	6e-07	9e-06	25 x 1 kelch-like family member 41 [Source:HGNC Symbol;Acc:169
12	4633	-0.65	1e-06	2e-05	25 x 1 myosin, light chain 2, regulatory, cardiac, slow [Source:HGNC
13	7134	-0.62	3e-06	2e-05	25 x 1 troponin C type 1 (slow) [Source:HGNC Symbol;Acc:11943]
14	4620	-0.61	4e-06	2e-04	25 x 1 myosin, heavy chain 2, skeletal muscle, adult [Source:HGNC
15	9499	-0.58	1e-05	2e-04	25 x 1 myotilin [Source:HGNC Symbol;Acc:12399]
16	7140	-0.56	2e-05	2e-04	25 x 1 troponin T type 3 (skeletal, fast) [Source:HGNC Symbol;Acc:1
17	4625	-0.55	3e-05	2e-04	25 x 1 myosin, heavy chain 7, cardiac muscle, beta [Source:HGNC S
18	8557	-0.54	4e-05	4e-04	25 x 1 titin-cap [Source:HGNC Symbol;Acc:11610]
19	29895	-0.52	8e-05	4e-04	25 x 1 myosin light chain, phosphorylatable, fast skeletal muscle [So
20	4606	-0.51	1e-04	4e-04	25 x 1 myosin binding protein C, fast type [Source:HGNC Symbol;Ac

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-58.63	NULL	11 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
2	-54.38	NULL	23 / 36	BP muscle filament sliding
3	-50.82	NULL	55 / 127	H.Tiss WIRTH_Muscle
4	-50	NULL	11 / 16	H.Tiss WIRTH_Hippocampus
5	-40.39	NULL	21 / 44	MF structural constituent of muscle
6	-37.81	NULL	10 / 12	CC myosin filament
7	-34.26	NULL	8 / 14	CC contractile fiber
8	-28.79	NULL	23 / 84	BP muscle contraction
9	-28.7	NULL	12 / 37	CC sarcomere
10	-26.28	NULL	8 / 13	CC muscle myosin complex
11	-23.95	NULL	9 / 20	CC I band
12	-23.14	NULL	2 / 6	GSEA C2BIOCARTA_HSP27_PATHWAY
13	-22.93	NULL	20 / 88	CC Z disc
14	-22.67	NULL	5 / 11	BP cardiac muscle tissue morphogenesis
15	-22.5	NULL	14 / 34	CC myofibril
16	-20.84	NULL	9 / 37	BP cardiac muscle contraction
17	-20.79	NULL	3 / 15	Cancer BEN-PORATH_UP
18	-19.41	NULL	6 / 12	MF titin binding
19	-18.2	NULL	6 / 12	BP skeletal muscle contraction
20	-17.05	NULL	2 / 20	MF myosin binding
21	-16.97	NULL	6 / 18	BP regulation of muscle contraction
22	-16.88	NULL	2 / 10	BP heart contraction
23	-16.36	NULL	7 / 15	GSEA C2REACTOME_STRIATED_MUSCLE_CONTRACTION
24	-16.31	NULL	7 / 15	BP striated muscle contraction
25	-15.86	NULL	1 / 9	GSEA C2PENG_GLUCOSE_DEPRIVATION_UP
26	-15.86	NULL	1 / 9	GSEA C2PENG_GLUCOSE_DEPRIVATION_DN
27	-15.34	NULL	1 / 5	GSEA C2LIU_VAV3_PROSTATE_CARCINOGENESIS_UP
28	-14.94	NULL	2 / 16	GSEA C2SASSON_RESPONSE_TO_GONADOTROPHINS_DN
29	-14.94	NULL	2 / 16	GSEA C2SASSON_RESPONSE_TO_FORSKOLIN_DN
30	-14.91	NULL	1 / 10	GSEA C2BIOCARTA_EPHA4_PATHWAY
31	-14.68	NULL	8 / 16	CC M band
32	-14.51	NULL	2 / 14	GSEA C2BIOCARTA_UCALPAIN_PATHWAY
33	-13.95	NULL	2 / 15	GSEA C2BIOCARTA_INTEGRIN_PATHWAY
34	-13.9	NULL	2 / 15	BP skeletal muscle fiber development
35	-13.42	NULL	1 / 12	GSEA C2BIOCARTA_NO1_PATHWAY
36	-13.42	NULL	1 / 12	GSEA C2BIOCARTA_RAB_PATHWAY
37	-13.4	NULL	3 / 37	CC actin filament
38	-13.35	NULL	8 / 42	CC myosin complex
39	-13.12	NULL	3 / 16	GSEA C2DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_DN
40	-13.04	NULL	25 / 297	MF actin binding

p-values



GW_085

Local Summary

%DE = 0.64
 # metagenes = 33
 # genes = 478
 # genes in genesets = 475

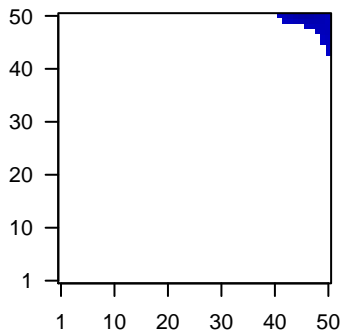
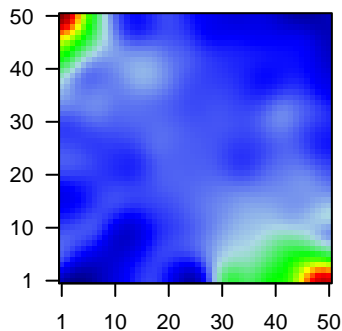
genes with $fdr < 0.1 = 162$ (30 + / 132 -)
 # genes with $fdr < 0.05 = 131$ (25 + / 106 -)
 # genes with $fdr < 0.01 = 82$ (15 + / 67 -)

$\langle r \rangle$ metagenes = 0.84
 $\langle r \rangle$ genes = 0.24

$\langle FC \rangle = -0.16$
 $\langle \text{shrinkage-t} \rangle = -5.77$
 $\langle p\text{-value} \rangle = 0.01$
 $\langle fdr \rangle = 0.67$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	26047	1.33	2e-16	1e-14	50 x 50 contactin associated protein-like 2 [Source:HGNC Symbol;Acc:31056]
2	3856	-1.35	2e-16	1e-14	50 x 48 keratin 8 pseudogene 3 [Source:HGNC Symbol;Acc:31056]
3	4953	1.11	2e-16	1e-14	50 x 50 ornithine decarboxylase 1 [Source:HGNC Symbol;Acc:8109]
4	7419	1.03	2e-15	5e-12	50 x 47 voltage-dependent anion channel 3 [Source:HGNC Symbol;Acc:31056]
5	5625	1	3e-14	2e-11	50 x 48 proline dehydrogenase (oxidase) 1 [Source:HGNC Symbol;Acc:31056]
6	200810	-0.98	1e-13	2e-11	49 x 50 ALG1, chitobiosylidiphosphodolichol beta-mannosyltransferase 1 [Source:HGNC Symbol;Acc:31056]
7	4072	-0.97	2e-13	4e-09	50 x 50 epithelial cell adhesion molecule [Source:HGNC Symbol;Acc:31056]
8	655	-0.86	7e-11	4e-09	50 x 50 bone morphogenetic protein 7 [Source:HGNC Symbol;Acc:10000]
9	3880	-0.86	7e-11	4e-09	50 x 49 keratin 19 [Source:HGNC Symbol;Acc:6436]
10	3790	-0.86	7e-11	2e-08	50 x 50 potassium voltage-gated channel, delayed-rectifier, subfamily A [Source:HGNC Symbol;Acc:31056]
11	57549	-0.84	2e-10	3e-08	49 x 47 immunoglobulin superfamily, member 9 [Source:HGNC Symbol;Acc:31056]
12	3149	0.83	4e-10	2e-07	47 x 50 high mobility group box 3 [Source:HGNC Symbol;Acc:5004]
13	1164	-0.79	2e-09	2e-07	44 x 50 CDC28 protein kinase regulatory subunit 2 [Source:HGNC Symbol;Acc:31056]
14	1163	-0.78	4e-09	2e-07	44 x 50 CDC28 protein kinase regulatory subunit 1B [Source:HGNC Symbol;Acc:31056]
15	875	-0.78	4e-09	9e-07	49 x 47 cystathionine-beta-synthase [Source:HGNC Symbol;Acc:15000]
16	10857	-0.76	9e-09	7e-06	47 x 50 progesterone receptor membrane component 1 [Source:HGNC Symbol;Acc:31056]
17	6659	-0.71	7e-08	7e-06	50 x 45 SRY (sex determining region Y)-box 4 [Source:HGNC Symbol;Acc:31056]
18	3202	-0.7	1e-07	7e-06	49 x 47 homeobox A5 [Source:HGNC Symbol;Acc:5106]
19	55190	-0.7	1e-07	1e-05	47 x 50 nudix (nucleoside diphosphate linked moiety X)-type motif 11 [Source:HGNC Symbol;Acc:31056]
20	256764	-0.68	2e-07	1e-05	50 x 50 WD repeat domain 72 [Source:HGNC Symbol;Acc:26790]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-19.75	NULL	64 / 142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	-19.75	NULL	64 / 142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	-13.05	NULL	90 / 914	Chr Chr 3
4	-12.69	NULL	9 / 14	GSEA C2ZHAN_MULTIPLE_MYELOMA_PR_UP
5	-11.87	NULL	11 / 13	GSEA C2CROONQUIST_IL6_DEPRIVATION_DN
6	-11.63	NULL	11 / 16	GSEA C2FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL
7	-11.36	NULL	8 / 11	GSEA C2ODONNELL_TFRC_TARGETS_DN
8	-11.05	NULL	10 / 15	GSEA C2FINETTI_BREAST_CANCER_KINOME_RED
9	-11.03	NULL	10 / 16	GSEA C2KANG_DOXORUBICIN_RESISTANCE_UP
10	-10.85	NULL	4 / 9	GSEA C2SEMBA_FHIT_TARGETS_DN
11	-10.64	NULL	8 / 15	GSEA C2ODONNELL_TARGETS_OF_MYC_AND_TFRC_DN
12	-10.56	NULL	20 / 57	Glio developing astrocytes
13	-10.52	NULL	8 / 16	GSEA C2MEINHOLD_OVARIAN_CANCER_LOW_GRADE_DN
14	-10.06	NULL	8 / 14	GSEA C2PUJANA_BRCA_CENTERED_NETWORK
15	-10.05	NULL	7 / 13	GSEA C2PUJANA_XPRSS_INT_NETWORK
16	-9.84	NULL	7 / 12	GSEA C2L_WILMS_TUMOR_VS_FETAL_KIDNEY_1_DN
17	-9.8	NULL	10 / 16	GSEA C2CROONQUIST_NRAS_SIGNALING_DN
18	-9.8	NULL	7 / 10	GSEA C2MONTERO_THYROID_CANCER_POOR_SURVIVAL_UP
19	-9.63	NULL	9 / 15	GSEA C2LEE_EARLY_T_LYMPHOCYTE_UP
20	-9.44	NULL	6 / 9	GSEA C2REACTOME_CELL_CYCLE_CHECKPOINTS
21	-9.29	NULL	1 / 2	miRNA target-129
22	-9.02	NULL	6 / 14	GSEA C2PUJANA_BRCA2_PCC_NETWORK
23	-8.97	NULL	7 / 16	Cancer RHODES_UNDIFFERENTIATED_CANCER
24	-8.93	NULL	12 / 68	Cancer SHAUGHNESSY_MM_high_risk
25	-8.93	NULL	3 / 6	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_7
26	-8.85	NULL	7 / 15	GSEA C2Y_AGING_OLD_DN
27	-8.84	NULL	7 / 14	GSEA C2AMUNDSON_GAMMA_RADIATION_RESPONSE
28	-8.8	NULL	8 / 16	GSEA C2PUJANA_BREAST_CANCER_WITH_BRCA1_MUTATED_UP
29	-8.46	NULL	9 / 15	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
30	-8.15	NULL	6 / 14	GSEA C2MISSIAGLIA_REGULATED_BY_METHYLATION_DN
31	-8.08	NULL	6 / 15	GSEA C2SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
32	-8.08	NULL	11 / 18	BP spindle organization
33	-7.86	NULL	68 / 530	Cancer Lembcke_Normal vs Adenoma
34	-7.71	NULL	7 / 16	Cancer RHODES_UNDIFFERENTIATED_CANCER
35	-7.68	NULL	6 / 15	GSEA C2CHANG_CYCLING_GENES
36	-7.45	NULL	3 / 19	BP maternal process involved in female pregnancy
37	-7.23	NULL	4 / 15	Cancer RHODES_CANCER_META_SIGNATURE
38	-7.15	NULL	4 / 37	CC lateral plasma membrane
39	-7.11	NULL	6 / 15	GSEA C2KAUFFMANN_MELANOMA_RELAPSE_UP
40	-7.05	NULL	4 / 12	GSEA C2SHEPARD_BMYB_TARGETS

