

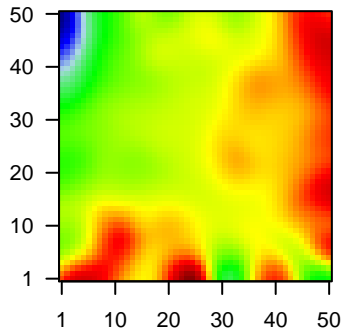
GW_084

Global Summary

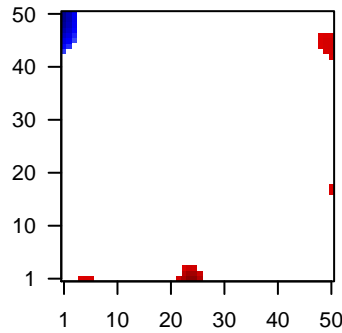
%DE = 0.16
 # genes with $fdr < 0.2$ = 2159 (1210 + / 949 -)
 # genes with $fdr < 0.1$ = 1700 (965 + / 735 -)
 # genes with $fdr < 0.05$ = 1385 (791 + / 594 -)
 # genes with $fdr < 0.01$ = 952 (530 + / 422 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.08
 <fdr> = 0.84

Profile



Regulated Spots



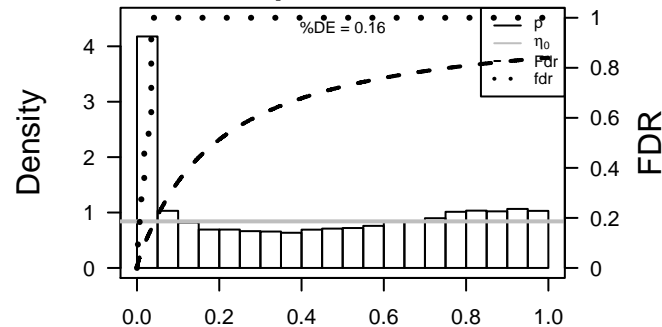
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	58	3.95	2e-16	2e-14	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
2	70	3.13	2e-16	2e-14	25 x 1 actin, alpha, cardiac muscle 1 [Source:HGNC Symbol;Acc:14
3	57016	-2.36	2e-16	2e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
4	441282	-1.84	2e-16	2e-14	1 x 49 aldo-keto reductase family 1, member B15 [Source:HGNC S
5	249	1.78	2e-16	2e-14	6 x 1 alkaline phosphatase, liver/bone/kidney [Source:HGNC Symt
6	244	-1.78	2e-16	2e-14	1 x 43 annexin A8-like 2 [Source:HGNC Symbol;Acc:23335]
7	347	1.83	2e-16	2e-14	50 x 7 apolipoprotein D [Source:HGNC Symbol;Acc:612]
8	9823	1.78	2e-16	2e-14	7 x 1 armadillo repeat containing, X-linked 2 [Source:HGNC Symb
9	64073	-2.3	2e-16	2e-14	1 x 46 chromosome 19 open reading frame 33 [Source:HGNC Symt
10	29113	2.84	2e-16	2e-14	2 x 47 chromosome 6 open reading frame 15 [Source:HGNC Symbc
11	375791	-2	2e-16	2e-14	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Symt
12	771	-1.84	2e-16	2e-14	1 x 44 carbonic anhydrase XII [Source:HGNC Symbol;Acc:1371]
13	23705	2.03	2e-16	2e-14	50 x 7 cell adhesion molecule 1 [Source:HGNC Symbol;Acc:5951]
14	810	-2.87	2e-16	2e-14	1 x 50 calmodulin-like 3 [Source:HGNC Symbol;Acc:1452]
15	875	2.01	2e-16	2e-14	49 x 47 cystathionine-beta-synthase [Source:HGNC Symbol;Acc:15
16	1000	1.92	2e-16	2e-14	4 x 1 cadherin 2, type 1, N-cadherin (neuronal) [Source:HGNC Sy
17	4680	-2.14	2e-16	2e-14	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (
18	1158	2.79	2e-16	2e-14	25 x 1 creatine kinase, muscle [Source:HGNC Symbol;Acc:1994]
19	9635	-2.09	2e-16	2e-14	1 x 46 chloride channel accessory 2 [Source:HGNC Symbol;Acc:20
20	9076	-2.03	2e-16	2e-14	49 x 50 claudin 1 [Source:HGNC Symbol;Acc:2032]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	18.07	NULL	127	H.Tiss WIRTH_Muscle
2	15.7	NULL	36	BP muscle filament sliding
3	14.85	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
4	12.91	NULL	44	MF structural constituent of muscle
5	12.37	NULL	16	H.Tiss WIRTH_Hippocampus
6	10.2	NULL	37	CC sarcomere
7	10.11	NULL	84	BP muscle contraction
8	9.06	NULL	12	CC myosin filament
9	8.94	NULL	15	Cancer BEN-PORATH_UP
10	8.47	NULL	375	Disease GUDJ_psooriasis down
11	8.13	NULL	914	Chr Chr 3
12	7.87	NULL	11	GSEA C2NIKOLSKY_BREAST_CANCER_7Q21_Q22_AMPLICON
13	7.66	NULL	13	CC muscle myosin complex
14	7.62	NULL	57	MF extracellular matrix structural constituent
15	7.62	NULL	1033	Chr Chr 2
16	7.52	NULL	8	GSEA C2RUNNE_GENDER_EFFECT_UP
17	7.41	NULL	400	H.Tiss WIRTH_Nervous System
18	7.2	NULL	190	CC extracellular matrix
19	7.19	NULL	7	MMML C6ACIEJ_MMML 5
20	7.18	NULL	280	Chr Chr 13
<i>Underexpressed</i>				
1	-32.78	NULL	135	H.Tiss WIRTH_Mucosa
2	-25.77	NULL	572	Disease GUDJ_psooriasis up
3	-16.69	NULL	21	CC cornified envelope
4	-16.09	NULL	76	BP epidermis development
5	-14.31	NULL	53	BP keratinocyte differentiation
6	-14	NULL	42	BP keratinization
7	-11.09	NULL	16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
8	-10.11	NULL	21	CC desmosome
9	-9.66	NULL	417	H.Tiss WIRTH_Immune system
10	-9.35	NULL	82	CC intermediate filament
11	-9.11	NULL	15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
12	-8.98	NULL	44	CC keratin filament
13	-8.94	NULL	15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
14	-8.9	NULL	51	BP type I interferon signaling pathway
15	-8.86	NULL	312	BP immune response
16	-8.71	NULL	15	GSEA C2AIGNER_ZEB1_TARGETS
17	-8.69	NULL	553	Cancer Lemcke_Colonc Inflammation
18	-8.03	NULL	13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
19	-8.03	NULL	15	GSEA C2FARMER_BREAST_CANCER_CLUSTER_3
20	-7.92	NULL	12	BP hemidesmosome assembly

p-values



GW_084

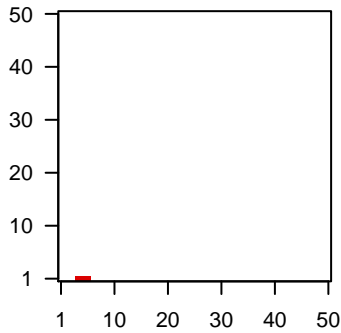
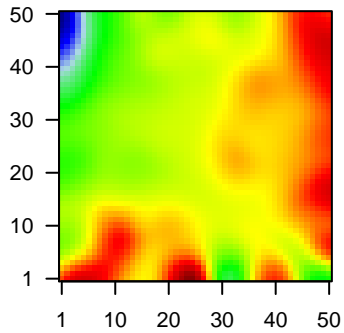
Local Summary

%DE = 0.67
 # metagenes = 3
 # genes = 101
 # genes in genesets = 100
 # genes with $fdr < 0.1$ = 51 (50 + / 1 -)
 # genes with $fdr < 0.05$ = 50 (49 + / 1 -)
 # genes with $fdr < 0.01$ = 34 (34 + / 0 -)

$\langle r \rangle$ metagenes = 0.99
 $\langle r \rangle$ genes = 0.46
 $\langle FC \rangle = 0.56$
 $\langle \text{shrinkage-t} \rangle = 19.53$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.52$

Profile

Spot



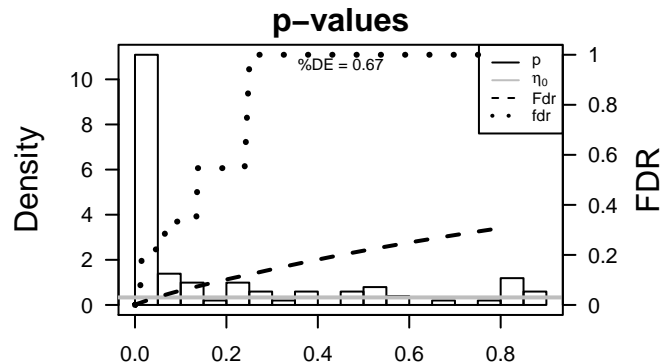
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	249	1.78	2e-16	2e-15	6 x 1 alkaline phosphatase, liver/bone/kidney [Source:HGNC Symb
2	1000	1.92	2e-16	2e-15	4 x 1 cadherin 2, type 1, N-cadherin (neuronal) [Source:HGNC Syr
3	7857	2.16	2e-16	2e-15	4 x 1 secretogranin II [Source:HGNC Symbol;Acc:10575]
4	8910	2.29	2e-16	2e-15	6 x 1 sarcoglycan, epsilon [Source:HGNC Symbol;Acc:10808]
5	10962	1.68	8e-15	6e-12	5 x 1 myeloid/lymphoid or mixed-lineage leukemia (trithorax homol
6	1809	1.59	2e-13	1e-09	6 x 1 dihydropyrimidinase-like 3 [Source:HGNC Symbol;Acc:3015]
7	387914	1.43	4e-11	2e-09	6 x 1 shisa family member 2 [Source:HGNC Symbol;Acc:20366]
8	55384	1.4	1e-10	3e-09	4 x 1 maternally expressed 3 (non-protein coding) [Source:HGNC
9	27253	1.36	4e-10	3e-09	4 x 1 protocadherin 17 [Source:HGNC Symbol;Acc:14267]
10	30008	1.36	4e-10	3e-09	5 x 1 EGF containing fibulin-like extracellular matrix protein 2 [Sou
11	2882	1.35	4e-10	3e-09	6 x 1 glutathione peroxidase 7 [Source:HGNC Symbol;Acc:4559]
12	5118	1.35	5e-10	4e-09	4 x 1 procollagen C-endopeptidase enhancer [Source:HGNC Sym
13	10979	1.34	6e-10	6e-08	4 x 1 feritin family member 2 [Source:HGNC Symbol;Acc:15767]
14	54749	1.27	4e-09	6e-08	5 x 1 ependymin related 1 [Source:HGNC Symbol;Acc:17572]
15	51313	1.27	4e-09	2e-06	4 x 1 family with sequence similarity 198, member B [Source:HGNC
16	7076	1.17	6e-08	4e-06	4 x 1 TIMP metalloproteinase inhibitor 1 [Source:HGNC Symbol;Acc
17	1306	1.13	2e-07	3e-05	4 x 1 collagen, type XV, alpha 1 [Source:HGNC Symbol;Acc:2192]
18	51655	1.06	1e-06	1e-04	6 x 1 RAS, dexamethasone-induced 1 [Source:HGNC Symbol;Acc
19	56999	0.99	5e-06	1e-04	6 x 1 ADAM metalloproteinase with thrombospondin type 1 motif, 9
20	401237	0.97	7e-06	2e-04	6 x 1 cancer susceptibility candidate 15 (non-protein coding) [Sour

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	36.86	NULL	1 / 2	MMML C69CIEJ_MMML_46
2	21.77	NULL	1 / 2	miRNA target-346
3	16.26	NULL	1 / 7	GSEA C2DAVIES_MULTIPLE_MYELOMA_VS_MGUS_UP
4	15.02	NULL	1 / 8	GSEA C2SATO_SILENCED_EPIGENETICALLY_IN_PANCREATIC_CANCE
5	14.95	NULL	1 / 6	GSEA C2TAKAYAMA_BOUND_BY_AR
6	14.7	NULL	3 / 10	GSEA C2SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
7	14.25	NULL	21 / 190	CC extracellular matrix
8	14.11	NULL	1 / 3	GSEA C2KONDO_HYPOXIA
9	14.01	NULL	1 / 9	GSEA C2XU_GH1_AUTOCRINE_TARGETS_UP
10	13.17	NULL	1 / 15	Cancer LIU_PROSTATE_CANCER_DN
11	12.46	NULL	1 / 11	GSEA C2NIKOLSKY_BREAST_CANCER_7Q21_Q22_AMPLICON
12	11.84	NULL	1 / 12	GSEA C2PROVENZANI_METASTASIS_UP
13	11.41	NULL	5 / 70	BP cell-matrix adhesion
14	11.3	NULL	25 / 250	LymphomaENZ_Stromal signature 1
15	10.83	NULL	1 / 14	GSEA C2KAAB_HEART_ATRIUM_VS_VENTRICLE_UP
16	10.77	NULL	2 / 22	CC filamentous actin
17	10.66	NULL	1 / 13	BP induction of positive chemotaxis
18	10.6	NULL	2 / 14	GSEA C2OONCANNON_APOPTOSIS_BY_EPOXOMICIN_DN
19	10.44	NULL	1 / 6	GSEA C2NIELSEN_GIST_VS_SYNOVIAL_SARCOMA_UP
20	10.42	NULL	1 / 11	MF gamma-catenin binding
21	10.41	NULL	1 / 15	GSEA C2BILBAN_B_CLL_LPL_UP
22	10.41	NULL	1 / 15	GSEA C2ZOZGIT_ESR1_TARGETS_UP
23	10.41	NULL	1 / 15	GSEA C2SCHLOSSER_SERUM_RESPONSE_DN
24	10.41	NULL	1 / 15	GSEA C2YANG_BREAST_CANCER_ESR1_LASER_DN
25	10.41	NULL	1 / 15	GSEA C2TOMLINS_PROSTATE_CANCER_DN
26	10.41	NULL	1 / 15	GSEA C2POTTI_CYTOXAN_SENSITIVITY
27	10.41	NULL	1 / 15	GSEA C2JIANG_HYPOXIA_NORMAL
28	10.22	NULL	1 / 10	GSEA C2MARTINELLI_IMMATURE_NEUTROPHIL_DN
29	10.03	NULL	1 / 16	CC dystrophin-associated glycoprotein complex
30	10.03	NULL	1 / 16	GSEA C2RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIA
31	10.03	NULL	1 / 16	GSEA C2SASAKI_ADULT_T_CELL_LEUKEMIA
32	10.03	NULL	1 / 16	GSEA C2BOYVAULT_LIVER_CANCER_SUBCLASS_G123_UP
33	10.03	NULL	1 / 16	GSEA C2BACOLOD_RESISTANCE_TO_ALKYLATING_AGENTS_UP
34	9.95	NULL	3 / 23	BP negative regulation of endothelial cell proliferation
35	9.91	NULL	1 / 12	CC fascia adherens
36	9.9	NULL	3 / 18	BP focal adhesion assembly
37	9.81	NULL	1 / 15	BP negative regulation of endothelial cell apoptotic process
38	9.66	NULL	1 / 11	GSEA C2KEGG_FOLATE_BIOSYNTHESIS
39	9.62	NULL	1 / 10	GSEA C2ZHU_CMV_24_HR_UP
40	9.62	NULL	1 / 10	GSEA C2ZHU_CMV_ALL_UP



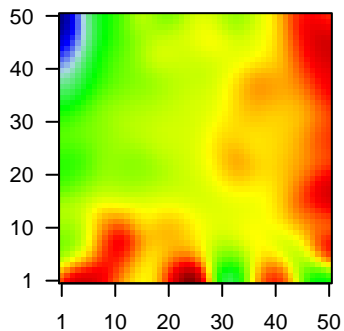
GW_084

Local Summary

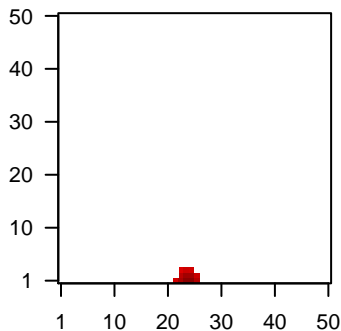
%DE = 0.85
 # metagenes = 12
 # genes = 118
 # genes in genesets = 117
 # genes with $fdr < 0.1$ = 92 (92 + / 0 -)
 # genes with $fdr < 0.05$ = 83 (83 + / 0 -)
 # genes with $fdr < 0.01$ = 78 (78 + / 0 -)

$\langle r \rangle$ metagenes = 0.99
 $\langle r \rangle$ genes = 0.62
 $\langle FC \rangle$ = 1.09
 $\langle \text{shrinkage-t} \rangle$ = 38.31
 $\langle p\text{-value} \rangle$ = 0
 $\langle fdr \rangle$ = 0.27

Profile



Spot



Local Genelist

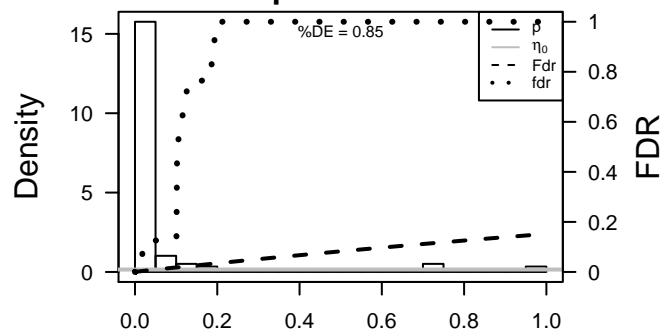
Rank	ID	log(FC)	fdr	p-value	Description
1	58	3.95	2e-16	2e-16	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
2	70	3.13	2e-16	2e-16	25 x 1 actin, alpha, cardiac muscle 1 [Source:HGNC Symbol;Acc:14
3	1158	2.79	2e-16	2e-16	25 x 1 creatine kinase, muscle [Source:HGNC Symbol;Acc:1994]
4	202333	2.11	2e-16	2e-16	25 x 1 cardiomyopathy associated 5 [Source:HGNC Symbol;Acc:14
5	115265	2.16	2e-16	2e-16	25 x 1 DNA-damage-inducible transcript 4-like [Source:HGNC Syrr
6	8788	2.01	2e-16	2e-16	23 x 1 delta-like 1 homolog (Drosophila) [Source:HGNC Symbol;Acc
7	1917	2.91	2e-16	2e-16	25 x 1 eukaryotic translation elongation factor 1 alpha 2 [Source:HG
8	2273	2.23	2e-16	2e-16	25 x 1 four and a half LIM domains 1 [Source:HGNC Symbol;Acc:37
9	2318	1.96	2e-16	2e-16	25 x 1 filamin C, gamma [Source:HGNC Symbol;Acc:3756]
10	10324	2.66	2e-16	2e-16	25 x 1 kelch-like family member 41 [Source:HGNC Symbol;Acc:169
11	4151	2.37	2e-16	2e-16	25 x 1 myoglobin [Source:HGNC Symbol;Acc:6915]
12	4604	1.77	2e-16	2e-16	25 x 1 myosin binding protein C, slow type [Source:HGNC Symbol;A
13	4620	3.27	2e-16	2e-16	25 x 1 myosin, heavy chain 2, skeletal muscle, adult [Source:HGNC
14	4625	2.37	2e-16	2e-16	25 x 1 myosin, heavy chain 7, cardiac muscle, beta [Source:HGNC S
15	4632	1.84	2e-16	2e-16	25 x 1 myosin, light chain 1, alkali; skeletal, fast [Source:HGNC Sym
16	4633	2.56	2e-16	2e-16	25 x 1 myosin, light chain 2, regulatory, cardiac, slow [Source:HGNC
17	8736	1.88	2e-16	2e-16	25 x 1 myomesin 1 [Source:HGNC Symbol;Acc:7613]
18	9499	2.44	2e-16	2e-16	25 x 1 myotilin [Source:HGNC Symbol;Acc:12399]
19	4703	2.83	2e-16	2e-16	25 x 1 nebulin [Source:HGNC Symbol;Acc:7720]
20	6588	3.45	2e-16	2e-16	25 x 1 sarcolipin [Source:HGNC Symbol;Acc:11089]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	60	NULL	60 / 127	H.Tiss WIRTH_Muscle
2	57.92	NULL	23 / 36	BP muscle filament sliding
3	54.2	NULL	11 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
4	49.66	NULL	11 / 16	H.Tiss WIRTH_Hippocampus
5	47.45	NULL	22 / 44	MF structural constituent of muscle
6	38.24	NULL	10 / 12	CC myosin filament
7	34.37	NULL	12 / 37	CC sarcomere
8	30.44	NULL	23 / 84	BP muscle contraction
9	30.43	NULL	8 / 13	CC muscle myosin complex
10	27.47	NULL	8 / 14	CC contractile fiber
11	27.07	NULL	9 / 16	CC M band
12	26.44	NULL	14 / 34	CC myofibril
13	25.46	NULL	21 / 88	CC Z disc
14	24.48	NULL	5 / 11	BP cardiac muscle tissue morphogenesis
15	24.28	NULL	9 / 37	BP cardiac muscle contraction
16	22.19	NULL	10 / 20	CC I band
17	20.66	NULL	6 / 12	BP skeletal muscle contraction
18	19.98	NULL	6 / 12	MF titin binding
19	19.86	NULL	7 / 15	BP striated muscle contraction
20	19.68	NULL	5 / 11	CC A band
21	18.85	NULL	3 / 15	Cancer BEN-PORATH_UP
22	18.17	NULL	2 / 6	GSEA C2BIOCARTA_HSP27_PATHWAY
23	17.66	NULL	2 / 10	BP heart contraction
24	16.25	NULL	6 / 18	BP regulation of muscle contraction
25	16.24	NULL	4 / 14	BP adult heart development
26	15.56	NULL	8 / 42	CC myosin complex
27	15.23	NULL	25 / 297	MF actin binding
28	15.11	NULL	5 / 26	BP ventricular cardiac muscle tissue morphogenesis
29	14.91	NULL	1 / 5	GSEA C2LJU_VAV3_PROSTATE_CARCINOGENESIS_UP
30	14.8	NULL	4 / 16	MF microfilament motor activity
31	14.67	NULL	2 / 20	MF myosin binding
32	14.18	NULL	4 / 18	CC costamere
33	13.82	NULL	7 / 15	GSEA C2REACTOME_STRIATED_MUSCLE_CONTRACTION
34	13.61	NULL	3 / 13	CC pseudopodium
35	13.22	NULL	2 / 14	GSEA C2BIOCARTA_UCALPAIN_PATHWAY
36	13.16	NULL	2 / 13	GSEA C2BIOCARTA_NFAT_PATHWAY
37	13.14	NULL	2 / 16	GSEA C2SASSON_RESPONSE_TO_GONADOTROPHINS_DN
38	13.14	NULL	2 / 16	GSEA C2SASSON_RESPONSE_TO_FORSKOLIN_DN
39	13.01	NULL	1 / 9	GSEA C2PENG_GLUCCOSE_DEPRIVATION_UP
40	13.01	NULL	1 / 9	GSEA C2PENG_GLUCCOSE_DEPRIVATION_DN

p-values



GW_084

Local Summary

%DE = 0.66
 # metagenes = 2
 # genes = 68
 # genes in genesets = 68

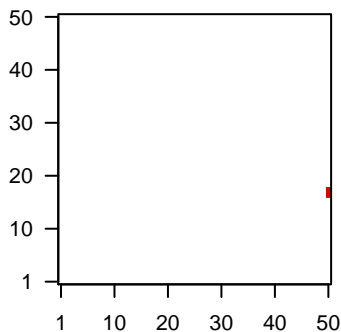
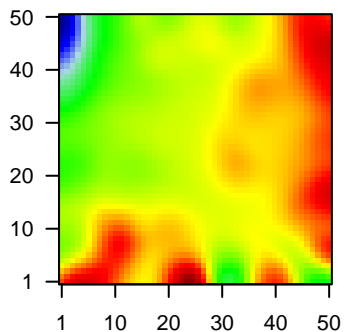
genes with $fdr < 0.1 = 40$ (40 + / 0 -)
 # genes with $fdr < 0.05 = 39$ (39 + / 0 -)
 # genes with $fdr < 0.01 = 31$ (31 + / 0 -)

<r> metagenes = 1
 <r> genes = 0.4

<FC> = 0.6
 <shrinkage-t> = 20.9
 <p-value> = 0
 <fdr> = 0.42

Profile

Spot



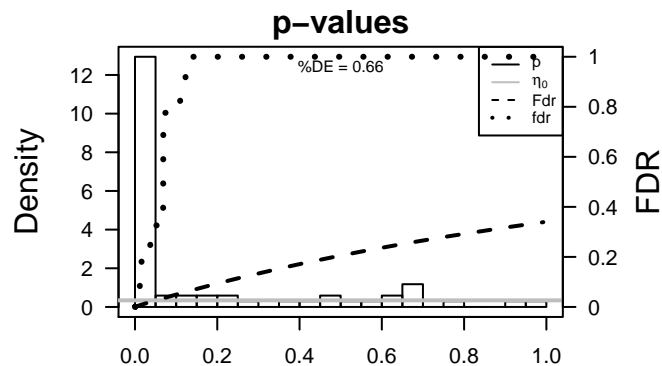
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	728715	2.34	2e-16	3e-15	50 x 18
2	54959	2.41	2e-16	3e-15	50 x 17 odontogenic, ameloblast associated [Source:HGNC Symbol;Acc:10000]
3	57556	1.72	2e-15	2e-12	50 x 17 sema domain, transmembrane domain (TM), and cytoplasmic
4	4613	1.61	9e-14	8e-11	50 x 17 v-myc avian myelocytomatosis viral oncogene neuroblastom
5	3977	1.5	4e-12	8e-11	50 x 17 leukemia inhibitory factor receptor alpha [Source:HGNC Sym]
6	29091	1.49	7e-12	7e-09	50 x 17 syntaxin binding protein 6 (amisyn) [Source:HGNC Symbol;Acc:10000]
7	1298	1.36	3e-10	8e-07	50 x 17 collagen, type IX, alpha 2 [Source:HGNC Symbol;Acc:2218]
8	9915	1.18	5e-08	8e-07	50 x 17 aryl-hydrocarbon receptor nuclear translocator 2 [Source:HGNC Symbol;Acc:10000]
9	28951	1.16	8e-08	8e-07	50 x 17 tribbles pseudokinase 2 [Source:HGNC Symbol;Acc:30809]
10	6432	1.15	1e-07	2e-06	50 x 17 serine/arginine-rich splicing factor 7 [Source:HGNC Symbol;Acc:10000]
11	7267	1.12	2e-07	2e-06	50 x 18 tetratricopeptide repeat domain 3 [Source:HGNC Symbol;Acc:10000]
12	57728	1.11	3e-07	3e-05	50 x 18 WD repeat domain 19 [Source:HGNC Symbol;Acc:18340]
13	21	1.02	3e-06	3e-05	50 x 17 ATP-binding cassette, sub-family A (ABC1), member 3 [Sou
14	53826	1.01	3e-06	3e-05	50 x 18 FXFD domain containing ion transport regulator 6 [Source:HGNC Symbol;Acc:10000]
15	648	1	4e-06	1e-04	50 x 17 COMMD3-BMI1 readthrough [Source:HGNC Symbol;Acc:48]
16	83988	0.96	1e-05	2e-04	50 x 17 neurocalcin delta [Source:HGNC Symbol;Acc:7655]
17	10461	0.92	2e-05	2e-04	50 x 17 c-mer proto-oncogene tyrosine kinase [Source:HGNC Symbol;Acc:10000]
18	84450	0.9	3e-05	2e-04	50 x 18 zinc finger protein 512 [Source:HGNC Symbol;Acc:29380]
19	9189	0.89	4e-05	3e-04	50 x 18 zinc finger, BED-type containing 1 [Source:HGNC Symbol;Acc:10000]
20	6431	0.82	5e-05	4e-04	50 x 18 serine/arginine-rich splicing factor 6 [Source:HGNC Symbol;Acc:10000]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	18.34	NULL	1 / 4	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_27
2	16.9	NULL	1 / 5	TF MYC_TFs
3	16.9	NULL	1 / 5	miRNA target-101
4	16.84	NULL	2 / 12	GSEA C2KIM_WT1_TARGETS_12HR_UP
5	13.96	NULL	2 / 15	GSEA C2DELYS_THYROID_CANCER_DN
6	13.92	NULL	1 / 13	GSEA C2FONTAINE_THYROID_TUMOR_UNCERTAIN_MALIGNANCY_DN
7	13.32	NULL	1 / 14	BP biomineral tissue development
8	12.83	NULL	1 / 3	miRNA target-148a
9	11.61	NULL	1 / 10	BP centrosome localization
10	11.42	NULL	1 / 7	GSEA C2KANG_CISPLATIN_RESISTANCE_DN
11	10.85	NULL	1 / 10	GSEA C2MOHANKUMAR_TLX1_TARGETS_DN
12	10.85	NULL	1 / 10	GSEA C2HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_UP
13	10.75	NULL	2 / 15	BP negative regulation of mRNA splicing, via spliceosome
14	10.39	NULL	1 / 12	GSEA C2SHI_SPARC_TARGETS_UP
15	10.3	NULL	2 / 13	miRNA target-34a
16	10.24	NULL	1 / 11	GSEA C2CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_UP
17	10.24	NULL	1 / 11	GSEA C2HELLER_HDAC_TARGETS_DN
18	10.24	NULL	1 / 11	GSEA C2HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_DN
19	10	NULL	2 / 16	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_UP
20	9.71	NULL	1 / 12	GSEA C2ODONNELL_METASTASIS_DN
21	9.71	NULL	1 / 12	GSEA C2KIM_MYCN_AMPLIFICATION_TARGETS_UP
22	9.71	NULL	1 / 12	GSEA C2BLALOCK_ALZHEIMERS_DISEASE_UP
23	9.51	NULL	2 / 16	GSEA C2HOEBEKE_LYMPHOID_STEM_CELL_UP
24	9.25	NULL	1 / 13	GSEA C2ZEN_UV_RESPONSE KERATINOCYTE_UP
25	9.25	NULL	1 / 13	GSEA C2CHEN_LUNG_CANCER_SURVIVAL
26	9.09	NULL	1 / 15	BP semaphorin-plexin signaling pathway
27	9.06	NULL	1 / 8	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LIVER_DN
28	8.85	NULL	1 / 14	GSEA C2GRABARCZYK_BCL11B_TARGETS_UP
29	8.85	NULL	1 / 14	GSEA C2TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_UP
30	8.85	NULL	1 / 14	GSEA C2TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_UP
31	8.85	NULL	1 / 14	GSEA C2CONCANNON_APOPTOSIS_BY_EPOXOMICIN_DN
32	8.85	NULL	1 / 14	GSEA C2WEI_MYCN_TARGETS_WITH_E_BOX
33	8.85	NULL	1 / 14	GSEA C2SWEET_KRAS_ONCOGENIC_SIGNATURE
34	8.75	NULL	1 / 16	GSEA C2REACTOME_OTHER_SEMAPHORIN_INTERACTIONS
35	8.64	NULL	2 / 13	GSEA C2CHENG_IMPRINTED_BY ESTRADIOL
36	8.49	NULL	1 / 15	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_DN
37	8.49	NULL	1 / 15	GSEA C2EBAUER_TARGETS_OF_PAX3_FOXP1_FUSION_DN
38	8.49	NULL	1 / 15	GSEA C2KORKOLA_TERATOMA
39	8.49	NULL	1 / 15	GSEA C2CHEN_NEUROBLASTOMA_COPY_NUMBER_GAINS
40	8.49	NULL	1 / 15	GSEA C2CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_3



GW_084

Local Summary

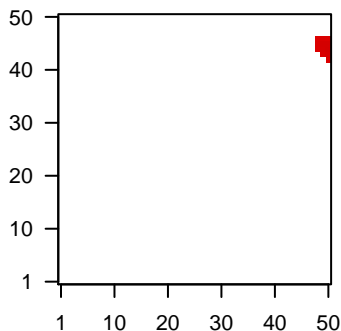
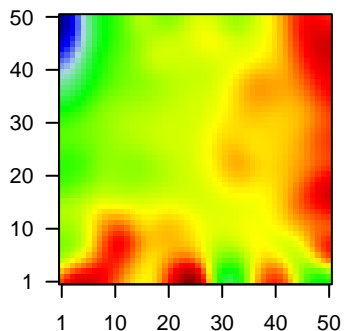
%DE = 0.74
 # metagenes = 12
 # genes = 124
 # genes in genesets = 122
 # genes with $fdr < 0.1$ = 60 (58 + / 2 -)
 # genes with $fdr < 0.05$ = 55 (53 + / 2 -)
 # genes with $fdr < 0.01$ = 43 (42 + / 1 -)

<r> metagenes = 0.98
 <r> genes = 0.24

<FC> = 0.54
 <shrinkage-t> = 19.07
 <p-value> = 0
 <fdr> = 0.53

Profile

Spot



Local Genelist

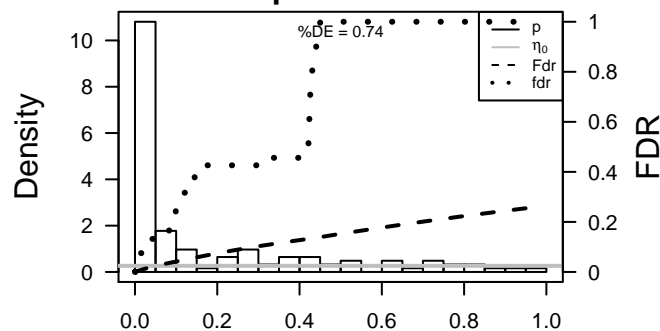
Rank	ID	log(FC)	fdr	p-value	Description
1	4897	1.86	2e-16	2e-15	50 x 45 neuronal cell adhesion molecule [Source:HGNC Symbol;Acc:30744]
2	26227	1.93	2e-16	2e-15	50 x 46 phosphoglycerate dehydrogenase [Source:HGNC Symbol;Acc:30744]
3	157869	2.04	2e-16	2e-15	50 x 42 somatomedin B and thrombospondin, type 1 domain containing protein 1 [Source:HGNC Symbol;Acc:30744]
4	11013	2.04	2e-16	2e-15	49 x 45 thymosin beta 15a [Source:HGNC Symbol;Acc:30744]
5	23462	1.67	1e-14	6e-12	50 x 45 hes-related family bHLH transcription factor with YRPW motif 1 [Source:HGNC Symbol;Acc:30744]
6	9965	1.59	2e-13	1e-11	50 x 42 fibroblast growth factor 19 [Source:HGNC Symbol;Acc:3675]
7	388228	1.56	5e-13	4e-10	50 x 45 SH3 domain binding kinase 1 [Source:HGNC Symbol;Acc:171]
8	80164	1.46	2e-11	4e-10	50 x 43 Protein FLJ22184 [Source:UniProtKB/TrEMBL;Acc:F5H1R7]
9	23089	1.44	2e-11	8e-10	50 x 42 paternally expressed 10 [Source:HGNC Symbol;Acc:14005]
10	8975	1.42	5e-11	2e-08	50 x 44 ubiquitin specific peptidase 13 (isopeptidase T-3) [Source:HGNC Symbol;Acc:14005]
11	440	1.33	8e-10	6e-08	50 x 46 asparagine synthetase (glutamine-hydrolyzing) [Source:HGNC Symbol;Acc:14005]
12	55502	1.29	3e-09	9e-08	48 x 45 hes family bHLH transcription factor 6 [Source:HGNC Symbol;Acc:14005]
13	2119	1.25	7e-09	9e-08	50 x 43 ets variant 5 [Source:HGNC Symbol;Acc:3494]
14	55964	1.24	9e-09	9e-08	49 x 45 septin 3 [Source:HGNC Symbol;Acc:10750]
15	201161	1.24	1e-08	1e-06	50 x 45 centromere protein V [Source:HGNC Symbol;Acc:29920]
16	57161	1.18	5e-08	9e-06	50 x 42 pellino E3 ubiquitin protein ligase family member 2 [Source:HGNC Symbol;Acc:29920]
17	6608	1.1	4e-07	9e-06	50 x 42 smoothed, frizzled family receptor [Source:HGNC Symbol;Acc:29920]
18	80144	1.07	7e-07	9e-06	50 x 42 Fraser syndrome 1 [Source:HGNC Symbol;Acc:19185]
19	3205	1.06	1e-06	9e-06	49 x 45 homeobox A9 [Source:HGNC Symbol;Acc:5109]
20	51804	1.05	1e-06	1e-05	50 x 46 SIX homeobox 4 [Source:HGNC Symbol;Acc:10890]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	20.64	NULL	1 / 2	MMML C69CIEJ_MMML_46
2	15.24	NULL	1 / 4	GSEA C2LUCAS_HNF4A_TARGETS_DN
3	13.37	NULL	2 / 16	GSEA C2ZHAN_MULTIPLE_MYELOMA_CD1_VS_CD2_UP
4	13.18	NULL	3 / 19	BP cellular amino acid biosynthetic process
5	12.51	NULL	2 / 18	BP glutamine metabolic process
6	11.84	NULL	3 / 15	GSEA C2PELLICCIOITTA_HDAC_IN_ANTIGEN_PRESENTATION_UP
7	11.74	NULL	2 / 15	GSEA C2HOOI_ST7_TARGETS_UP
8	11.7	NULL	3 / 16	GSEA C2BILD_E2F3_ONCOGENIC_SIGNATURE
9	11.48	NULL	2 / 15	BP spinal cord development
10	11.09	NULL	1 / 2	miRNA target-129
11	10.31	NULL	3 / 16	GSEA C2PACHER_TARGETS_OF_IGF1_AND_IGF2_UP
12	10.22	NULL	1 / 11	MF polysaccharide binding
13	9.55	NULL	2 / 29	MF cofactor binding
14	9.4	NULL	2 / 13	GSEA C2SILIGAN_BOUND_BY_EWS_FLT1_FUSION
15	9.28	NULL	1 / 13	GSEA C2LIU_TARGETS_OF_VMYB_VS_CMYB_UP
16	9.05	NULL	2 / 15	BP positive regulation of branching involved in ureteric bud morphogenesis
17	8.97	NULL	2 / 10	GSEA C2AMUNDSON_RESPONSE_TO_ARSENITE
18	8.82	NULL	1 / 10	BP cardiac epithelial to mesenchymal transition
19	8.62	NULL	1 / 7	GSEA C2DASU_IL6_SIGNALING_DN
20	8.62	NULL	2 / 14	GSEA C2VANTVEER_BREAST_CANCER_METASTASIS_DN
21	8.52	NULL	2 / 24	miRNA target-191
22	8.43	NULL	1 / 14	GSEA C2KEGG_GLYCINE_SERINE_AND_THREONINE_METABOLISM
23	8.36	NULL	1 / 5	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_29
24	8.36	NULL	1 / 5	miRNA target-126
25	8.35	NULL	1 / 11	BP negative regulation of transcription regulatory region DNA binding
26	8.24	NULL	1 / 2	GSEA C2SUTIERREZ_MULTIPLE_MYELOMA_UP
27	8.17	NULL	2 / 15	GSEA C2POTTI_CYTOXAN_SENSITIVITY
28	8.1	NULL	1 / 15	GSEA C2VANHARANTA_UTERINE_FIBROID_WITH_7Q_DELETION_UP
29	8.1	NULL	1 / 15	GSEA C2ZHAN_MULTIPLE_MYELOMA_CD1_UP
30	8.1	NULL	2 / 30	BP neurogenesis
31	8.09	NULL	2 / 23	BP ventricular septum morphogenesis
32	8.08	NULL	1 / 9	GSEA C2MCLACHLAN_DENTAL_CARIES_DN
33	8.08	NULL	1 / 14	MF ankyrin binding
34	8.08	NULL	1 / 14	BP axonal fasciculation
35	8.02	NULL	2 / 11	GSEA C2CUI_GLUCOSE_DEPRIVATION
36	7.82	NULL	2 / 15	GSEA C2KIM_MYCN_AMPLIFICATION_TARGETS_DN
37	7.8	NULL	1 / 16	GSEA C2HOSHIDA_LIVER_CANCER_LATE_RECURRENCE_DN
38	7.77	NULL	1 / 6	GSEA C2MURAKAMI_UV_RESPONSE_1HR_DN
39	7.77	NULL	2 / 13	GSEA C2CHIANG_LIVER_CANCER_SUBCLASS_INTERFERON_DN
40	7.76	NULL	1 / 15	BP retinal ganglion cell axon guidance

p-values



GW_084

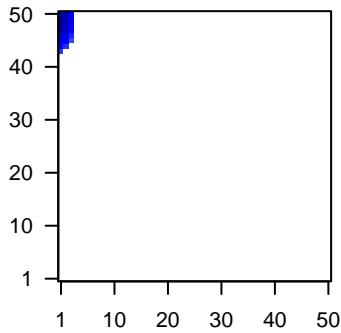
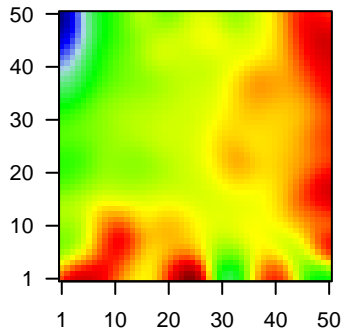
Local Summary

%DE = 0.97
 # metagenes = 21
 # genes = 300
 # genes in genesets = 292
 # genes with $fdr < 0.1$ = 283 (6 + / 277 -)
 # genes with $fdr < 0.05$ = 279 (6 + / 273 -)
 # genes with $fdr < 0.01$ = 266 (6 + / 260 -)

$\langle r \rangle$ metagenes = 0.91
 $\langle r \rangle$ genes = 0.38
 $\langle FC \rangle = -1.18$
 $\langle \text{shrinkage-t} \rangle = -41.82$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.11$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description	
1	57016	-2.36	2e-16	3e-17	1 x 50	aldo-keto reductase family 1, member B10 (aldose reductase)
2	441282	-1.84	2e-16	3e-17	1 x 49	aldo-keto reductase family 1, member B15 [Source:HGNC S]
3	244	-1.78	2e-16	3e-17	1 x 43	annexin A8-like 2 [Source:HGNC Symbol;Acc:23335]
4	64073	-2.3	2e-16	3e-17	1 x 46	chromosome 19 open reading frame 33 [Source:HGNC Symt
5	29113	2.84	2e-16	3e-17	2 x 47	chromosome 9 open reading frame 15 [Source:HGNC Symbc
6	375791	-2	2e-16	3e-17	1 x 50	chromosome 9 open reading frame 169 [Source:HGNC Synt
7	771	-1.84	2e-16	3e-17	1 x 44	carbonic anhydrase XII [Source:HGNC Symbol;Acc:1371]
8	810	-2.87	2e-16	3e-17	1 x 50	calmodulin-like 3 [Source:HGNC Symbol;Acc:1452]
9	4680	-2.14	2e-16	3e-17	1 x 50	carcinoembryonic antigen-related cell adhesion molecule 6 (i
10	9635	-2.09	2e-16	3e-17	1 x 46	chloride channel accessory 2 [Source:HGNC Symbol;Acc:20
11	84518	-2.09	2e-16	3e-17	1 x 50	cornifelin [Source:HGNC Symbol;Acc:30183]
12	1475	-1.87	2e-16	3e-17	1 x 50	cystatin A (stefin A) [Source:HGNC Symbol;Acc:2481]
13	1672	-2.16	2e-16	3e-17	1 x 50	defensin, beta 1 [Source:HGNC Symbol;Acc:2766]
14	414325	-1.99	2e-16	3e-17	1 x 48	defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
15	1824	-1.8	2e-16	3e-17	1 x 48	desmocollin 2 [Source:HGNC Symbol;Acc:3036]
16	1825	-1.8	2e-16	3e-17	1 x 45	desmocollin 3 [Source:HGNC Symbol;Acc:3037]
17	1828	-1.97	2e-16	3e-17	1 x 48	desmoglein 1 [Source:HGNC Symbol;Acc:3048]
18	1830	-2.39	2e-16	3e-17	1 x 48	desmoglein 3 [Source:HGNC Symbol;Acc:3050]
19	128876	-1.86	2e-16	3e-17	1 x 48	family with sequence similarity 83, member C [Source:HGNC
20	9982	-2.52	2e-16	3e-17	1 x 47	fibroblast growth factor binding protein 1 [Source:HGNC Symi

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-63.02	NULL	88 / 135	H.Tiss WIRTH_Mucosa
2	-38.35	NULL	18 / 21	CC cornified envelope
3	-32.83	NULL	111 / 572	Disease GUDJ_pсориазис up
4	-29.29	NULL	20 / 42	BP keratinization
5	-28.48	NULL	24 / 53	BP keratinocyte differentiation
6	-28.42	NULL	27 / 76	BP epidermis development
7	-24.41	NULL	12 / 21	CC desmosome
8	-19.32	NULL	7 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
9	-18.46	NULL	9 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
10	-18.25	NULL	13 / 44	CC keratin filament
11	-18.05	NULL	21 / 82	CC intermediate filament
12	-17.87	NULL	8 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
13	-17.16	NULL	10 / 19	BP peptide cross-linking
14	-16.36	NULL	8 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
15	-15.84	NULL	6 / 15	GSEA C2AIGNER_ZEB1_TARGETS
16	-14.73	NULL	4 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
17	-14.37	NULL	30 / 186	MF structural molecule activity
18	-12.99	NULL	5 / 10	MF RAGE receptor binding
19	-12.53	NULL	6 / 16	GSEA C2XROMER_TUMORIGENESIS_DN
20	-12.1	NULL	4 / 14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
21	-12	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
22	-11.67	NULL	3 / 12	BP hemidesmosome assembly
23	-11.58	NULL	14 / 79	MF serine-type endopeptidase inhibitor activity
24	-11.41	NULL	10 / 52	BP negative regulation of endopeptidase activity
25	-11.29	NULL	6 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
26	-11.18	NULL	3 / 13	BP intermediate filament cytoskeleton organization
27	-11.11	NULL	3 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
28	-11.08	NULL	6 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATEL
29	-11.08	NULL	8 / 38	BP epithelial cell differentiation
30	-10.91	NULL	7 / 29	BP regulation of proteolysis
31	-10.89	NULL	4 / 16	GSEA C2ROY_WOUND_BLOOD_VESSEL_DN
32	-10.87	NULL	3 / 8	GSEA C2LIU_CDX2_TARGETS_DN
33	-10.77	NULL	6 / 13	BP negative regulation of peptidase activity
34	-10.77	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP
35	-10.76	NULL	4 / 15	GSEA C2CHANG_IMMORTALIZED_BY_HP131_DN
36	-10.7	NULL	2 / 8	GSEA C2DORN_ADENOVIRUS_INFECTION_24HR_UP
37	-10.59	NULL	11 / 82	MF structural constituent of cytoskeleton
38	-10.29	NULL	4 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
39	-9.77	NULL	4 / 12	H.Tiss WIRTH_Prim. lymphoid organs
40	-9.55	NULL	2 / 5	miRNA target-196a

p-values

