

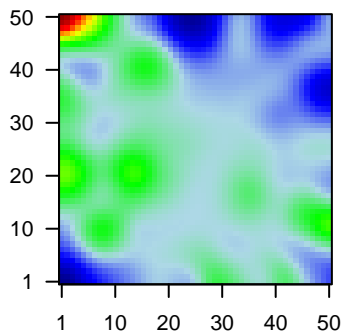
GW_143

Global Summary

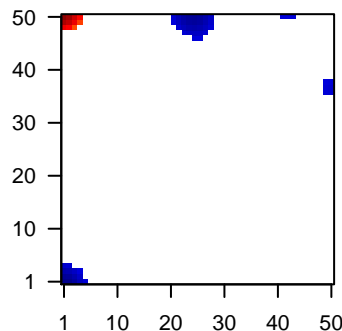
%DE = 0.12
 # genes with fdr < 0.2 = 1298 (737 + / 561 -)
 # genes with fdr < 0.1 = 995 (570 + / 425 -)
 # genes with fdr < 0.05 = 741 (439 + / 302 -)
 # genes with fdr < 0.01 = 452 (291 + / 161 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.16
 <fdr> = 0.88

Profile



Regulated Spots



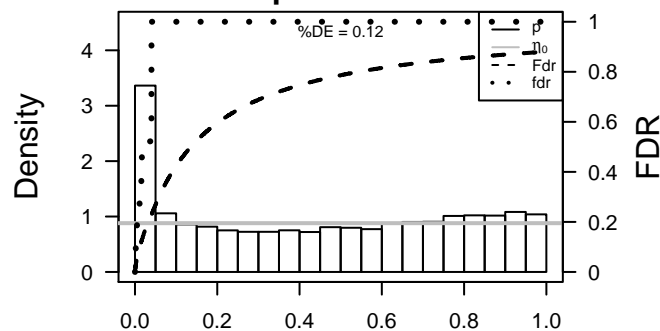
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	79852	1.8	2e-16	9e-14	3 x 50 epoxide hydrolase 3 [Source:HGNC Symbol;Acc:23760]
2	387695	2.09	2e-16	9e-14	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
3	64073	1.79	2e-16	9e-14	1 x 46 chromosome 19 open reading frame 33 [Source:HGNC Synt
4	375791	2.21	2e-16	9e-14	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
5	4680	1.81	2e-16	9e-14	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (i
6	84518	1.92	2e-16	9e-14	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
7	1278	-1.81	2e-16	9e-14	2 x 1 collagen, type I, alpha 2 [Source:HGNC Symbol;Acc:2198]
8	49860	3.28	2e-16	9e-14	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
9	1562	1.82	2e-16	9e-14	1 x 50 cytochrome P450, family 2, subfamily C, polypeptide 18 [Sou
10	1577	1.84	2e-16	9e-14	4 x 50 cytochrome P450, family 3, subfamily A, polypeptide 5 [Sourc
11	1673	2.72	2e-16	9e-14	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
12	131177	2.02	2e-16	9e-14	3 x 50 family with sequence similarity 3, member D [Source:HGNC S
13	2312	2.16	2e-16	9e-14	1 x 49 filaggrin [Source:HGNC Symbol;Acc:3748]
14	3127	1.79	2e-16	9e-14	43 x 1 major histocompatibility complex, class II, DR beta 5 [Source:
15	3576	-1.99	2e-16	9e-14	1 x 1 interleukin 8 [Source:HGNC Symbol;Acc:6025]
16	43849	2.1	2e-16	9e-14	1 x 50 kallikrein-related peptidase 12 [Source:HGNC Symbol;Acc:6:
17	5653	1.8	2e-16	9e-14	1 x 50 kallikrein-related peptidase 6 [Source:HGNC Symbol;Acc:63:
18	5650	2.26	2e-16	9e-14	1 x 49 kallikrein-related peptidase 7 [Source:HGNC Symbol;Acc:63:
19	448834	1.76	2e-16	9e-14	1 x 48 keratinocyte proline-rich protein [Source:HGNC Symbol;Acc:
20	3851	2.97	2e-16	9e-14	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	28.54	NULL	135	H.Tiss WIRTH_Mucosa
2	12.75	NULL	42	BP keratinization
3	11.6	NULL	21	CC cornified envelope
4	9.98	NULL	76	BP epidermis development
5	9.74	NULL	1135	Chr Chr 19
6	9.25	NULL	16	GSEA C2CROMER_TUMORIGENESIS_DN
7	8.65	NULL	572	Disease GUDJ_psooriasis up
8	8.44	NULL	16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
9	8.28	NULL	53	BP keratinocyte differentiation
10	7.67	NULL	15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
11	7.42	NULL	15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
12	6.9	NULL	16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
13	6.75	NULL	14	GSEA C2KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP
14	6.45	NULL	15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
15	6.34	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
16	6.27	NULL	13	GSEA C2WONG_ENDOMETRIUM_CANCER_UP
17	6.13	NULL	122	MF serine-type endopeptidase activity
18	5.86	NULL	19	BP peptide cross-linking
19	5.75	NULL	38	BP epithelial cell differentiation
20	5.69	NULL	16	GSEA C2COLDREN_GEFITINIB_RESISTANCE_DN
<i>Underexpressed</i>				
1	-12.17	NULL	436	miRNA target-starB39e
2	-11.9	NULL	250	LymphonL1ENZ_Stromal signature 1
3	-11.28	NULL	315	miRNA target-starB39e
4	-10.53	NULL	262	miRNA target-starB39e
5	-10.27	NULL	278	miRNA target-starB39e
6	-10.24	NULL	336	miRNA target-starB39e-5p
7	-10.13	NULL	8023	MF protein binding
8	-10.05	NULL	268	miRNA target-starB39e
9	-10.03	NULL	307	miRNA target-starB39e-5p
10	-9.97	NULL	336	miRNA target-starB39e-5p
11	-9.73	NULL	852	LymphonSPANG_BCR DN
12	-9.66	NULL	302	miRNA target-starB39e
13	-9.48	NULL	313	Glio wilscher_GBM_Verhaak-CL_expression_D_up
14	-9.48	NULL	313	Glio wilscher_GBM_Verhaak-MES_expression_D_down
15	-9.48	NULL	313	Glio wilscher_GBM_Verhaak-PNwt_expression_D_up
16	-9.47	NULL	264	miRNA target-starB39e
17	-9.43	NULL	268	miRNA target-starB39e
18	-9.43	NULL	242	BP extracellular matrix organization
19	-9.3	NULL	300	miRNA target-starB39e-3p
20	-9.22	NULL	321	miRNA target-starB39e-5p

p-values



GW_143

Local Summary

%DE = 0.89
 # metagenes = 11
 # genes = 168
 # genes in genesets = 165

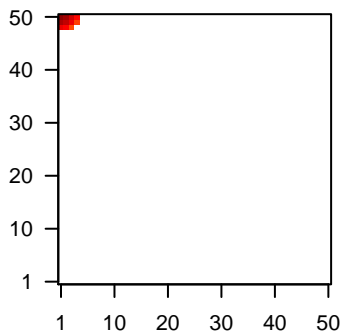
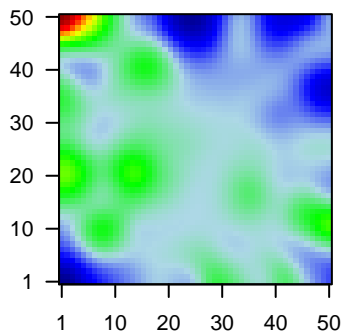
genes with $fdr < 0.1 = 145$ (142 + / 3 -)
 # genes with $fdr < 0.05 = 145$ (142 + / 3 -)
 # genes with $fdr < 0.01 = 131$ (130 + / 1 -)

$\langle r \rangle$ metagenes = 0.99
 $\langle r \rangle$ genes = 0.49

$\langle FC \rangle = 1.16$
 $\langle \text{shrinkage-t} \rangle = 40.87$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.17$

Profile

Spot



Local Genelist

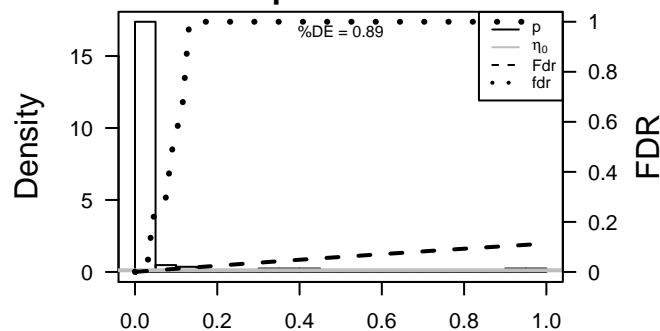
Rank	ID	log(FC)	fdr	p-value	Description
1	79852	1.8	2e-16	1e-16	3 x 50 epoxide hydrolase 3 [Source:HGNC Symbol;Acc:23760]
2	387695	2.09	2e-16	1e-16	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
3	375791	2.21	2e-16	1e-16	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
4	4680	1.81	2e-16	1e-16	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (i
5	84518	1.92	2e-16	1e-16	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
6	49860	3.28	2e-16	1e-16	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
7	1562	1.82	2e-16	1e-16	1 x 50 cytochrome P450, family 2, subfamily C, polypeptide 18 [Sou
8	1577	1.84	2e-16	1e-16	4 x 50 cytochrome P450, family 3, subfamily A, polypeptide 5 [Sourc
9	1673	2.72	2e-16	1e-16	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
10	131177	2.02	2e-16	1e-16	3 x 50 family with sequence similarity 3, member D [Source:HGNC S
11	2312	2.16	2e-16	1e-16	1 x 49 flaggrin [Source:HGNC Symbol;Acc:3748]
12	43849	2.1	2e-16	1e-16	1 x 50 kallikrein-related peptidase 12 [Source:HGNC Symbol;Acc:6:
13	5653	1.8	2e-16	1e-16	1 x 50 kallikrein-related peptidase 6 [Source:HGNC Symbol;Acc:63i
14	5650	2.26	2e-16	1e-16	1 x 49 kallikrein-related peptidase 7 [Source:HGNC Symbol;Acc:63i
15	448834	1.76	2e-16	1e-16	1 x 48 keratinocyte proline-rich protein [Source:HGNC Symbol;Acc:
16	3851	2.97	2e-16	1e-16	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]
17	137797	2.37	2e-16	1e-16	1 x 50 LY6/PLAUR domain containing 2 [Source:HGNC Symbol;Acc
18	4118	2.51	2e-16	1e-16	1 x 50 mal, T-cell differentiation protein [Source:HGNC Symbol;Acc
19	342897	2.07	2e-16	1e-16	1 x 50 non-specific cytotoxic cell receptor protein 1 homolog (zebraf
20	51458	1.87	2e-16	1e-16	1 x 50 Rh family, C glycoprotein [Source:HGNC Symbol;Acc:18140]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	57.55	NULL	71 / 135	H.Tiss WIRTH_Mucosa
2	25.67	NULL	14 / 21	CC cornified envelope
3	23.75	NULL	72 / 572	Disease GUDJ_pсориазис up
4	23.31	NULL	16 / 42	BP keratinization
5	23.1	NULL	19 / 53	BP keratinocyte differentiation
6	19.28	NULL	8 / 19	BP peptide cross-linking
7	18.61	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
8	18.27	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
9	17.47	NULL	18 / 76	BP epidermis development
10	16.15	NULL	6 / 16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
11	14.95	NULL	6 / 13	BP negative regulation of peptidase activity
12	13.44	NULL	5 / 10	MF RAGE receptor binding
13	12.67	NULL	6 / 15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
14	11.78	NULL	2 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
15	11.68	NULL	4 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
16	10.95	NULL	5 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
17	10.74	NULL	46 / 1182	CC extracellular region
18	10.69	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
19	10.47	NULL	3 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LUNG_UP
20	10.18	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP
21	10.07	NULL	3 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
22	9.87	NULL	6 / 38	BP epithelial cell differentiation
23	9.8	NULL	3 / 10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
24	9.79	NULL	10 / 122	MF serine-type endopeptidase activity
25	9.63	NULL	3 / 16	GSEA C2AZARD_UV_RESPONSE_CLUSTER_G24
26	9.17	NULL	3 / 16	GSEA C2CHEOK_RESPONSE_TO_MERCAPTOPYRINE_AND_LD_MTX_U
27	8.86	NULL	3 / 14	GSEA C2KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP
28	8.79	NULL	2 / 11	GSEA C2REACTOME_XENOBIOTICS
29	8.76	NULL	3 / 12	BP cellular aldehyde metabolic process
30	8.55	NULL	4 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
31	8.43	NULL	2 / 14	GSEA C2ZHAN_MULTIPLE_MYELOMA_MF_UP
32	8.24	NULL	13 / 186	MF structural molecule activity
33	8.06	NULL	10 / 79	MF serine-type endopeptidase inhibitor activity
34	7.91	NULL	4 / 44	CC keratin filament
35	7.73	NULL	3 / 16	GSEA C2HAHTOLA_MYCOSIS_FUNGOIDES_SKIN_DN
36	7.66	NULL	3 / 15	GSEA C2LEE_LIVER_CANCER_MYC_UP
37	7.35	NULL	6 / 82	CC intermediate filament
38	7.29	NULL	3 / 14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
39	7.08	NULL	4 / 23	MF peptidase inhibitor activity
40	7.06	NULL	2 / 15	GSEA C2ALONSO_METASTASIS_NEURAL_UP

p-values



GW_143

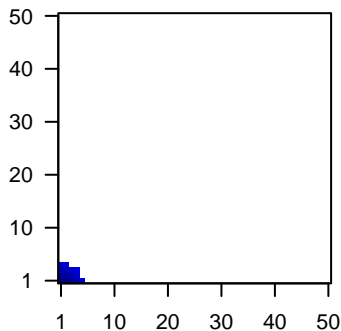
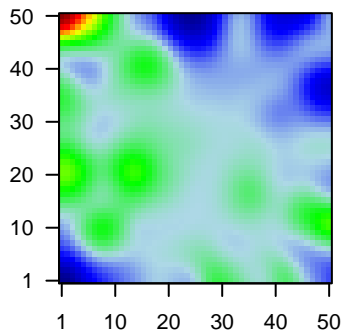
Local Summary

%DE = 0.76
 # metagenes = 15
 # genes = 254
 # genes in genesets = 253
 # genes with $fdr < 0.1$ = 147 (5 + / 142 -)
 # genes with $fdr < 0.05$ = 139 (5 + / 134 -)
 # genes with $fdr < 0.01$ = 99 (4 + / 95 -)

<r> metagenes = 0.96
 <r> genes = 0.4
 <FC> = -0.52
 <shrinkage-t> = -18.23
 <p-value> = 0
 <fdr> = 0.47

Profile

Spot



Local Genelist

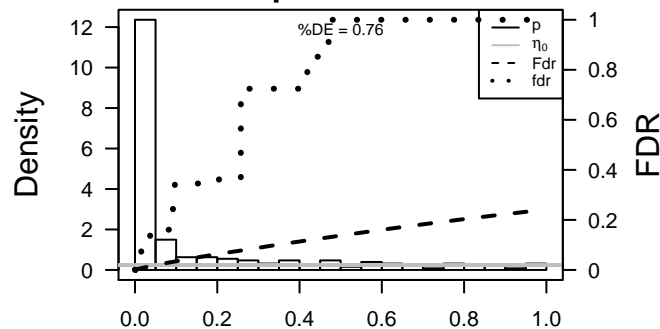
Rank	ID	log(FC)	fdr	p-value	Description
1	1278	-1.81	2e-16	3e-15	2 x 1 collagen, type I, alpha 2 [Source:HGNC Symbol;Acc:2198]
2	3576	-1.99	2e-16	3e-15	1 x 1 interleukin 8 [Source:HGNC Symbol;Acc:6025]
3	4060	-1.97	2e-16	3e-15	2 x 1 lumican [Source:HGNC Symbol;Acc:6724]
4	7057	-1.86	2e-16	3e-15	1 x 1 thrombospondin 1 [Source:HGNC Symbol;Acc:11785]
5	5743	-1.71	1e-15	5e-12	1 x 1 prostaglandin-endoperoxide synthase 2 (prostaglandin G/H/s
6	1293	-1.59	1e-13	5e-12	2 x 1 collagen, type VI, alpha 3 [Source:HGNC Symbol;Acc:2213]
7	7431	-1.57	2e-13	5e-12	4 x 1 vimentin [Source:HGNC Symbol;Acc:12692]
8	3490	-1.56	2e-13	8e-10	3 x 1 insulin-like growth factor binding protein 7 [Source:HGNC Sy
9	3553	-1.44	1e-11	5e-09	1 x 1 interleukin 1, beta [Source:HGNC Symbol;Acc:5992]
10	1281	-1.27	9e-11	3e-08	2 x 1 collagen, type III, alpha 1 [Source:HGNC Symbol;Acc:2201]
11	3491	-1.3	1e-09	3e-08	2 x 1 cysteine-rich, angiogenic inducer, 61 [Source:HGNC Symbol
12	3685	-1.3	1e-09	7e-08	1 x 4 integrin, alpha V [Source:HGNC Symbol;Acc:6150]
13	1009	-1.27	2e-09	6e-07	3 x 1 cadherin 11, type 2, OB-cadherin (osteoblast) [Source:HGNC
14	1277	-1.22	1e-08	2e-06	2 x 1 collagen, type I, alpha 1 [Source:HGNC Symbol;Acc:2197]
15	6591	-1.16	5e-08	2e-06	1 x 4 snail family zinc finger 2 [Source:HGNC Symbol;Acc:11094]
16	414062	-1.15	8e-08	2e-06	1 x 1 chemokine (C-C motif) ligand 3-like 3 [Source:HGNC Symbc
17	1291	-1.14	9e-08	2e-06	2 x 1 collagen, type VI, alpha 1 [Source:HGNC Symbol;Acc:2211]
18	7130	-1.13	1e-07	2e-06	1 x 1 tumor necrosis factor, alpha-induced protein 6 [Source:HGNC
19	7128	-1.12	2e-07	2e-06	1 x 1 tumor necrosis factor, alpha-induced protein 3 [Source:HGNC
20	5066	-1.11	2e-07	2e-06	2 x 3 peptidylglycine alpha-amidating monooxygenase [Source:HC

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-41.2	NULL	15 / 16	MMML C6SCIEJ_MMML 1
2	-33.35	NULL	12 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
3	-31.24	NULL	61 / 190	CC extracellular matrix
4	-30.62	NULL	8 / 11	MF platelet-derived growth factor binding
5	-29.85	NULL	65 / 242	BP extracellular matrix organization
6	-29.19	NULL	70 / 250	Lymphocyte ENZ_Stromal signature 1
7	-28.14	NULL	30 / 69	BP extracellular matrix disassembly
8	-27.76	NULL	8 / 12	miRNA target-29c
9	-26.99	NULL	27 / 64	BP collagen catabolic process
10	-26.1	NULL	11 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
11	-25.63	NULL	4 / 5	GSEA C2COLLER_MYC_TARGETS_DN
12	-25.5	NULL	6 / 13	GSEA C2FRIDMAN_SENESCENCE_UP
13	-25.15	NULL	7 / 15	GSEA C2DASU_IL6_SIGNALING_SCAR_DN
14	-24.12	NULL	5 / 10	GSEA C2KEGG_ECM_RECEPTOR_INTERACTION
15	-23.62	NULL	11 / 19	MF extracellular matrix binding
16	-23.55	NULL	6 / 13	GSEA C2TSAI_RESPONSE_TO_RADIATION_THERAPY
17	-23.25	NULL	8 / 15	GSEA C2ONDER_CDH1_SIGNALING_VIA_CTNNB1
18	-22.04	NULL	14 / 37	BP collagen fibril organization
19	-21.89	NULL	19 / 57	MF extracellular matrix structural constituent
20	-21.66	NULL	10 / 15	GSEA C2ONDER_CDH1_TARGETS_2_UP
21	-21.22	NULL	7 / 16	GSEA C2CROONQUIST_STROMAL_STIMULATION_UP
22	-21.21	NULL	75 / 683	CC extracellular space
23	-21.2	NULL	23 / 119	Lymphocyte OSOLOWSKI_green total
24	-20.9	NULL	6 / 16	GSEA C2AMIT_EGF_RESPONSE_60_MCF10A
25	-20.77	NULL	4 / 6	GSEA C2AGARWAL_AKT_PATHWAY_TARGETS
26	-20.74	NULL	6 / 10	GSEA C2JEON_SMAD6_TARGETS_UP
27	-20.35	NULL	6 / 16	GSEA C2ZHU_CMV_24_HR_DN
28	-20.35	NULL	6 / 16	GSEA C2ZHU_CMV_ALL_DN
29	-19.96	NULL	6 / 16	GSEA C2AMIT_SERUM_RESPONSE_60_MCF10A
30	-19.38	NULL	100 / 1182CC	extracellular region
31	-18.89	NULL	6 / 15	GSEA C2VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP
32	-18.77	NULL	4 / 9	GSEA C2ZERBINI_RESPONSE_TO_SULINDAC_UP
33	-18.73	NULL	6 / 11	MMML C6SCIEJ_MMML 31
34	-18.58	NULL	5 / 16	GSEA C2REACTOME_SIGNALING_BY_PDGF
35	-18.22	NULL	4 / 10	BP protein heterotrimerization
36	-18.04	NULL	12 / 40	BP cellular response to amino acid stimulus
37	-17.82	NULL	5 / 16	GSEA C2URS_ADIPOCYTE_DIFFERENTIATION_DN
38	-17.73	NULL	2 / 6	GSEA C2SEIKE_LUNG_CANCER_POOR_SURVIVAL
39	-17.47	NULL	4 / 13	GSEA C2REACTOME_FORMATION_OF_PLATELET_PLUG
40	-17.47	NULL	4 / 13	GSEA C2REACTOME_PLATELET_ACTIVATION

p-values



GW_143

Local Summary

%DE = 0.89
 # metagenes = 6
 # genes = 122
 # genes in genesets = 122
 # genes with $fdr < 0.1 = 101$ (0 + / 101 -)
 # genes with $fdr < 0.05 = 87$ (0 + / 87 -)
 # genes with $fdr < 0.01 = 40$ (0 + / 40 -)

<r> metagenes = 0.99

<r> genes = 0.32

<FC> = -0.46

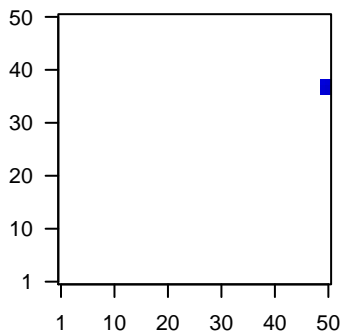
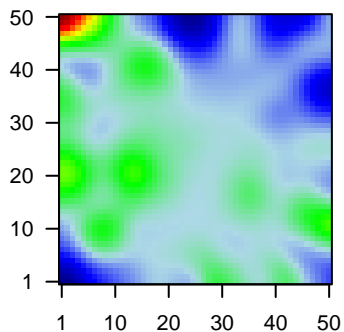
<shrinkage-t> = -16.08

<p-value> = 0.02

<fdr> = 0.59

Profile

Spot



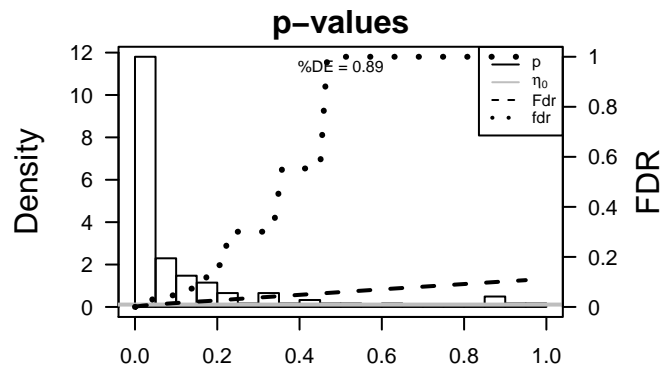
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	23215	-1.02	2e-06	7e-05	50 x 37 proline-rich coiled-coil 2C [Source:HGNC Symbol;Acc:24903]
2	27075	-0.96	7e-06	5e-04	50 x 38 tetraspanin 13 [Source:HGNC Symbol;Acc:21643]
3	7764	-0.87	5e-05	5e-04	50 x 37 zinc finger protein 217 [Source:HGNC Symbol;Acc:13009]
4	84928	-0.83	1e-04	5e-04	50 x 37 transmembrane protein 209 [Source:HGNC Symbol;Acc:2185]
5	171586	-0.82	1e-04	5e-04	50 x 37 abhydrolase domain containing 3 [Source:HGNC Symbol;Acc:2185]
6	5431	-0.79	2e-04	5e-04	50 x 37 polymerase (RNA) II (DNA directed) polypeptide B, 140kDa [Source:HGNC Symbol;Acc:2185]
7	64393	-0.78	2e-04	5e-04	50 x 37 zinc finger, matrin-type 3 [Source:HGNC Symbol;Acc:29983]
8	23505	-0.77	3e-04	5e-04	50 x 37 transmembrane protein 131 [Source:HGNC Symbol;Acc:3036]
9	60481	-0.77	3e-04	5e-04	50 x 37 ELOVL fatty acid elongase 5 [Source:HGNC Symbol;Acc:213]
10	4254	-0.76	4e-04	5e-04	50 x 36 KIT ligand [Source:HGNC Symbol;Acc:6343]
11	1655	-0.69	4e-04	5e-04	50 x 36 DEAD (Asp-Glu-Ala-Asp) box helicase 5 [Source:HGNC Symbol;Acc:2185]
12	23049	-0.75	4e-04	5e-04	49 x 37 SMG1 phosphatidylinositol 3-kinase-related kinase [Source:HGNC Symbol;Acc:2185]
13	7844	-0.75	4e-04	1e-03	50 x 37 RNF103-CHMP3 readthrough [Source:HGNC Symbol;Acc:3036]
14	64083	-0.74	5e-04	2e-03	50 x 37 golgi phosphoprotein 3 (coat-protein) [Source:HGNC Symbol;Acc:2185]
15	10257	-0.73	6e-04	2e-03	50 x 36 ATP-binding cassette, sub-family C (CFTR/MRP), member 4 [Source:HGNC Symbol;Acc:2185]
16	55251	-0.71	8e-04	2e-03	50 x 37 protein-L-isoaspartate (D-aspartate) O-methyltransferase d [Source:HGNC Symbol;Acc:2185]
17	10672	-0.71	9e-04	2e-03	49 x 36 guanine nucleotide binding protein (G protein), alpha 13 [Source:HGNC Symbol;Acc:2185]
18	23318	-0.7	1e-03	2e-03	50 x 37 zinc finger, CCHC domain containing 11 [Source:HGNC Symbol;Acc:2185]
19	6634	-0.69	1e-03	2e-03	50 x 38 small nuclear ribonucleoprotein D3 polypeptide 18kDa [Source:HGNC Symbol;Acc:2185]
20	84343	-0.68	1e-03	2e-03	49 x 38 Hermansky-Pudlak syndrome 3 [Source:HGNC Symbol;Acc:2185]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-12.15	NULL	2 / 10	GSEA C2CROONQUIST_STROMAL_STIMULATION_DN
2	-12.07	NULL	1 / 2	MMML C63CIEJ_MMML 38
3	-11.18	NULL	2 / 11	GSEA C2GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_L
4	-10.7	NULL	3 / 11	MF AU-rich element binding
5	-10.26	NULL	2 / 16	GSEA C2YANG_BREAST_CANCER_ESR1_BULK_UP
6	-9.42	NULL	1 / 4	GSEA C2LUCAS_HNF4A_TARGETS_DN
7	-8.87	NULL	10 / 189	miRNA target-miR-3193
8	-8.75	NULL	1 / 4	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_3
9	-8.62	NULL	6 / 51	miRNA target-miR-556-3p
10	-8.32	NULL	2 / 11	GSEA C2TAYLOR_METHYLATED_IN_ACUTE_LYMPHOBLASTIC_LEUKEM
11	-7.78	NULL	2 / 14	GSEA C2AIYAR_COBRA1_TARGETS_DN
12	-7.73	NULL	8 / 163	BP mRNA splicing, via spliceosome
13	-7.68	NULL	13 / 271	miRNA target-miR-3191
14	-7.57	NULL	2 / 26	miRNA target-miR-397-5p
15	-7.34	NULL	4 / 41	BP mRNA 3'-end processing
16	-7.27	NULL	2 / 30	miRNA target-miR-466-5p
17	-7.25	NULL	1 / 3	miRNA target-miR-197
18	-7.23	NULL	6 / 95	miRNA target-miR-3129
19	-7.21	NULL	6 / 157	miRNA target-miR-3460
20	-7.04	NULL	4 / 44	BP termination of RNA polymerase II transcription
21	-7.02	NULL	1 / 7	GSEA C2NEBEN_AML_WITH_FLT3_OR_NRAS_UP
22	-7.01	NULL	1 / 6	GSEA C2CLAUS_PGR_POSITIVE_MENINGIOMA_UP
23	-6.95	NULL	3 / 52	miRNA target-miR-3191
24	-6.79	NULL	7 / 130	miRNA target-miR-3191
25	-6.67	NULL	18 / 595	MF RNA binding
26	-6.63	NULL	9 / 155	miRNA target-miR-3260
27	-6.53	NULL	6 / 58	miRNA target-miR-466-5p
28	-6.47	NULL	1 / 8	GSEA C2IZUKA_LIVER_CANCER_PROGRESSION_L1_G1_DN
29	-6.4	NULL	1 / 7	MMML C63CIEJ_MMML 48
30	-6.37	NULL	1 / 14	GSEA C2SIMBULAN_UV_RESPONSE_NORMAL_DN
31	-6.37	NULL	2 / 20	BP protein secretion
32	-6.27	NULL	15 / 412	miRNA target-miR-392
33	-6.23	NULL	7 / 186	miRNA target-miR-392
34	-6.23	NULL	7 / 121	miRNA target-miR-393
35	-6.2	NULL	2 / 16	GSEA C2CROMER_METASTASIS_UP
36	-6.19	NULL	8 / 159	miRNA target-miR-542-3p
37	-6.12	NULL	1 / 15	MMML C63CIEJ_MMML 16
38	-6.12	NULL	1 / 15	GSEA C2GENTILE_UV_RESPONSE_CLUSTER_D9
39	-5.94	NULL	11 / 215	miRNA target-miR-3293
40	-5.91	NULL	5 / 81	miRNA target-miR-3198-5p



GW_143

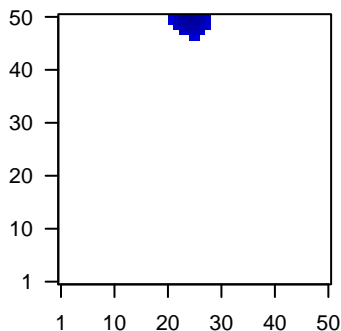
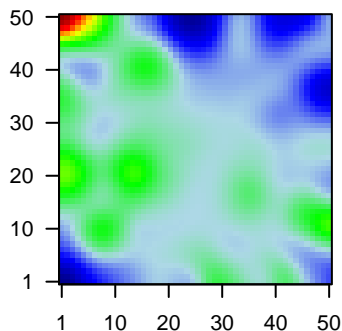
Local Summary

%DE = 0.87
 # metagenes = 30
 # genes = 368
 # genes in genesets = 363
 # genes with $fdr < 0.1$ = 289 (0 + / 289 -)
 # genes with $fdr < 0.05$ = 223 (0 + / 223 -)
 # genes with $fdr < 0.01$ = 118 (0 + / 118 -)

<r> metagenes = 0.94
 <r> genes = 0.26
 <FC> = -0.48
 <shrinkage-t> = -16.66
 <p-value> = 0.01
 <fdr> = 0.59

Profile

Spot



Local Genelist

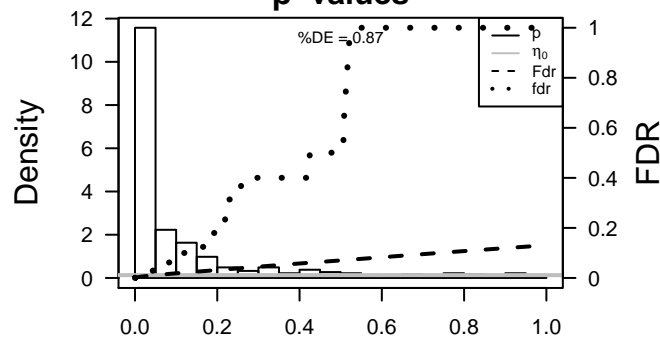
Rank	ID	log(FC)	fdr	p-value	Description
1	2353	-1.37	2e-12	3e-09	22 x 50 FBJ murine osteosarcoma viral oncogene homolog [Source:HGNC Symbol;Acc:30123]
2	1843	-1.27	7e-11	1e-07	22 x 50 dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:30123]
3	23645	-1.28	2e-09	1e-07	22 x 50 protein phosphatase 1, regulatory subunit 15A [Source:HGNC Symbol;Acc:30123]
4	25800	-1.25	4e-09	1e-07	25 x 50 solute carrier family 39 (zinc transporter), member 6 [Source:HGNC Symbol;Acc:30123]
5	10972	-1.23	7e-09	1e-06	25 x 50 transmembrane emp24-like trafficking protein 10 (yeast) [Source:HGNC Symbol;Acc:30123]
6	114908	-1.18	3e-08	1e-06	26 x 50 transmembrane protein 123 [Source:HGNC Symbol;Acc:30123]
7	4609	-1.16	5e-08	1e-06	22 x 50 v-myc avian myelocytomatosis viral oncogene homolog [Source:HGNC Symbol;Acc:30123]
8	1958	-1.15	7e-08	3e-06	22 x 50 early growth response 1 [Source:HGNC Symbol;Acc:3238]
9	678	-1.12	1e-07	3e-06	23 x 50 ZFP36 ring finger protein-like 2 [Source:HGNC Symbol;Acc:12862]
10	10787	-1.1	3e-07	3e-06	25 x 50 NCK-associated protein 1 [Source:HGNC Symbol;Acc:7666]
11	57132	-1.1	3e-07	5e-05	22 x 50 charged multivesicular body protein 1B [Source:HGNC Symbol;Acc:16849]
12	6386	-1.01	2e-06	5e-05	25 x 50 syndecan binding protein (syntenin) [Source:HGNC Symbol;Acc:12862]
13	51014	-0.99	4e-06	5e-05	26 x 50 transmembrane emp24 protein transport domain containing 7 [Source:HGNC Symbol;Acc:12862]
14	7538	-0.96	5e-06	5e-05	22 x 50 ZFP36 ring finger protein [Source:HGNC Symbol;Acc:12862]
15	9188	-0.97	6e-06	5e-05	26 x 50 DEAD (Asp-Glu-Ala-Asp) box helicase 21 [Source:HGNC Symbol;Acc:12862]
16	51030	-0.96	6e-06	5e-05	26 x 50 trans-golgi network vesicle protein 23 homolog B (S. cerevisiae) [Source:HGNC Symbol;Acc:12862]
17	9643	-0.96	6e-06	7e-05	26 x 50 mortality factor 4 like 2 [Source:HGNC Symbol;Acc:16849]
18	26092	-0.95	8e-06	7e-05	25 x 49 torsin A interacting protein 1 [Source:HGNC Symbol;Acc:2941]
19	81533	-0.95	9e-06	9e-05	26 x 50 integrin alpha FG-GAP repeat containing 1 [Source:HGNC Symbol;Acc:12862]
20	55854	-0.93	1e-05	9e-05	28 x 50 zinc finger CCCH-type containing 15 [Source:HGNC Symbol;Acc:12862]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-20.6	NULL	6 / 10	GSEA C2CHASSOT_SKIN_WOUND
2	-20.43	NULL	8 / 16	GSEA C2NAGASHIMA_EGF_SIGNALING_UP
3	-19.16	NULL	6 / 15	GSEA C2AMIT_EGF_RESPONSE_40_HELA
4	-16.41	NULL	7 / 16	GSEA C2AMIT_DELAYED_EARLY_GENES
5	-16.18	NULL	5 / 16	GSEA C2AMIT_EGF_RESPONSE_40_MCF10A
6	-15.64	NULL	6 / 16	GSEA C2AMIT_SERUM_RESPONSE_40_MCF10A
7	-14.12	NULL	5 / 16	GSEA C2JZONYI_RESPONSE_TO_LEUKOTRIENE_AND_THROMBIN
8	-13.81	NULL	4 / 8	MMML C2GSCIEJ_MMML_50
9	-13.77	NULL	4 / 14	BP response to light stimulus
10	-13.63	NULL	3 / 11	GSEA C2AMIT_EGF_RESPONSE_20_HELA
11	-13.11	NULL	2 / 7	GSEA C2TURJANSKI_MAPK7_TARGETS
12	-12.95	NULL	6 / 16	TF Tissue/AQUERIZAS_Pancreas
13	-12.89	NULL	54 / 436	miRNA target set miR-342-3p
14	-12.71	NULL	4 / 14	GSEA C2TIAN_TNF_SIGNALING_NOT_VIA_NFKB
15	-12.42	NULL	4 / 14	GSEA C2BIOCARTA_IL2_PATHWAY
16	-12.18	NULL	4 / 16	GSEA C2MAHADEVAN_RESPONSE_TO_MP470_DN
17	-11.51	NULL	2 / 5	miRNA target set miR-101
18	-11.48	NULL	1 / 2	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_14
19	-11.47	NULL	3 / 10	GSEA C2BIOCARTA_CDMAC_PATHWAY
20	-11.4	NULL	5 / 24	TF Tissue/AQUERIZAS_Trachea
21	-11.03	NULL	4 / 16	GSEA C2JI_RESPONSE_TO_FSH_DN
22	-10.83	NULL	4 / 15	GSEA C2DIRMEIER_LMP1_RESPONSE_EARLY
23	-10.81	NULL	22 / 151	miRNA target set miR-342-3p
24	-10.65	NULL	23 / 150	miRNA target set miR-342-3p
25	-10.49	NULL	3 / 12	GSEA C2BIOCARTA_DREAM_PATHWAY
26	-10.44	NULL	3 / 10	GSEA C2REACTOME_ACTIVATION_OF_THE_API_FAMILY_OF_TRANSCRIPTION_FACTORS
27	-10.43	NULL	4 / 16	GSEA C2BIOCARTA_ETS_PATHWAY
28	-10.38	NULL	38 / 310	miRNA target set miR-342-3p
29	-10.37	NULL	38 / 269	miRNA target set miR-342-3p
30	-10.27	NULL	33 / 318	miRNA target set miR-590-3p
31	-10.2	NULL	3 / 16	GSEA C2CROONQUIST_STROMAL_STIMULATION_UP
32	-10.17	NULL	22 / 155	miRNA target set miR-342-3p
33	-10.16	NULL	2 / 11	GSEA C2TURJANSKI_MAPK1_AND_MAPK2_TARGETS
34	-10.13	NULL	37 / 336	miRNA target set miR-548d-5p
35	-10.12	NULL	26 / 167	miRNA target set miR-548g
36	-10.06	NULL	35 / 307	miRNA target set miR-548c-5p
37	-10.05	NULL	4 / 13	BP COPI coating of Golgi vesicle
38	-9.95	NULL	14 / 61	miRNA target set miR-342-3p
39	-9.92	NULL	26 / 232	miRNA target set miR-142-5p
40	-9.83	NULL	28 / 281	miRNA target set miR-342-3p

p-values



GW_143

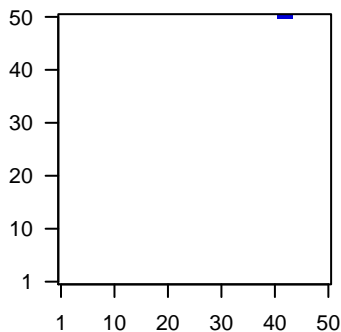
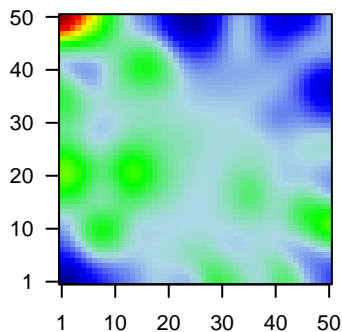
Local Summary

%DE = 0.66
 # metagenes = 3
 # genes = 81
 # genes in genesets = 81
 # genes with fdr < 0.1 = 41 (0 + / 41 -)
 # genes with fdr < 0.05 = 25 (0 + / 25 -)
 # genes with fdr < 0.01 = 5 (0 + / 5 -)

<r> metagenes = 0.99
 <r> genes = 0.4
 <FC> = -0.38
 <shrinkage-t> = -13.41
 <p-value> = 0.04
 <fdr> = 0.67

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr p-value	Description Metagene
1	151188	-0.97	5e-06 7e-05	43 x 50 ADP-ribosylation-like factor 6 interacting protein 6 [Source:HGNC]
2	3251	-0.97	5e-06 4e-04	42 x 50 hypoxanthine phosphoribosyltransferase 1 [Source:HGNC]
3	6873	-0.91	2e-05 5e-04	41 x 50 TAF2 RNA polymerase II, TATA box binding protein (TBP)-as
4	23279	-0.88	4e-05 9e-04	42 x 50 nucleoporin 160kDa [Source:HGNC Symbol;Acc:18017]
5	6611	-0.85	7e-05 5e-03	42 x 50 spermine synthase [Source:HGNC Symbol;Acc:11123]
6	3161	-0.78	3e-04 1e-02	43 x 50 hyaluronan-mediated motility receptor (RHAMM) [Source:HGNC]
7	6241	-0.69	1e-03 1e-02	43 x 50 ribonucleotide reductase M2 [Source:HGNC Symbol;Acc:104]
8	51001	-0.68	1e-03 1e-02	41 x 50 MTERF domain containing 1 [Source:HGNC Symbol;Acc:242]
9	3376	-0.67	2e-03 1e-02	41 x 50 isoleucyl-tRNA synthetase [Source:HGNC Symbol;Acc:5330]
10	440145	-0.65	2e-03 1e-02	41 x 50 mitotic spindle organizing protein 1 [Source:HGNC Symbol;Acc:440145]
11	54443	-0.63	3e-03 1e-02	43 x 50 anillin, actin binding protein [Source:HGNC Symbol;Acc:1408]
12	51068	-0.63	3e-03 1e-02	41 x 50 NMD3 ribosome export adaptor [Source:HGNC Symbol;Acc:51068]
13	26774	-0.62	3e-03 1e-02	41 x 50 growth arrest-specific 5 (non-protein coding) [Source:HGNC]
14	8520	-0.62	3e-03 1e-02	42 x 50 histone acetyltransferase 1 [Source:HGNC Symbol;Acc:4821]
15	51319	-0.61	4e-03 1e-02	43 x 50 arginine/serine-rich coiled-coil 1 [Source:HGNC Symbol;Acc:51319]
16	7027	-0.6	5e-03 1e-02	43 x 50 transcription factor Dp-1 [Source:HGNC Symbol;Acc:11749]
17	10606	-0.6	5e-03 2e-02	43 x 50 phosphoribosylaminoimidazole carboxylase, phosphoribosyla
18	10576	-0.59	6e-03 2e-02	41 x 50 chaperonin containing TCP1, subunit 2 (beta) [Source:HGNC]
19	10797	-0.58	7e-03 2e-02	43 x 50 methylenetetrahydrofolate dehydrogenase (NADP+ depende
20	7443	-0.57	7e-03 2e-02	43 x 50 vaccinia related kinase 1 [Source:HGNC Symbol;Acc:12718]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-19.12	NULL	0 / 15	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
2	-17.44	NULL	3 / 13	GSEA C2CROONQUIST_IL6_DEPRIVATION_DN
3	-16.74	NULL	3 / 14	GSEA C2ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
4	-16.14	NULL	3 / 15	GSEA C2NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_UP
5	-16.12	NULL	3 / 15	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP
6	-16	NULL	4 / 16	GSEA C2BIDUS_METASTASIS_UP
7	-15.71	NULL	3 / 16	GSEA C2REACTOME_REV_MEDIATED_NUCLEAR_EXPORT_OF_HIV1_P
8	-15.23	NULL	3 / 10	CC nuclear pore outer ring
9	-15.05	NULL	2 / 6	GSEA C2LOPEZ_MBD_TARGETS
10	-14.96	NULL	3 / 13	GSEA C2WINNEPENNINGCKX_MELANOMA_METASTASIS_UP
11	-14.63	NULL	2 / 11	GSEA C2ODONNELL_TFRC_TARGETS_DN
12	-14.14	NULL	3 / 16	GSEA C2REACTOME_TRANSPORT_OF_THE_SLBP_INDEPENDENT_MA
13	-13.85	NULL	2 / 10	GSEA C2MONTERO_THYROID_CANCER_POOR_SURVIVAL_UP
14	-13.71	NULL	3 / 15	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_DN
15	-13.33	NULL	2 / 13	GSEA C2WELCSH_BRCA1_TARGETS_1_UP
16	-12.37	NULL	2 / 14	GSEA C2REACTOME_NUCLEAR_IMPORT_OF_REV_PROTEIN
17	-12.37	NULL	2 / 14	GSEA C2REACTOME_GLUCOSE_TRANSPORT
18	-12.31	NULL	2 / 15	GSEA C2GAL_LEUKEMIC_STEM_CELL_DN
19	-12.31	NULL	2 / 15	GSEA C2LEE_EARLY_T_LYMPHOCYTE_UP
20	-12.02	NULL	1 / 5	Glio Phillips Prolif up vs PN & MES
21	-11.97	NULL	3 / 18	BP spindle organization
22	-11.9	NULL	2 / 15	GSEA C2REACTOME_TRANSPORT_OF_RIBONUCLEOPROTEINS_INTO
23	-11.9	NULL	2 / 15	GSEA C2REACTOME_NEP_NS2_INTERACTS_WITH_THE_CELLULAR_E
24	-11.88	NULL	2 / 16	GSEA C2WILCOX_RESPONSE_TO_ROGESTERONE_UP
25	-11.88	NULL	2 / 16	GSEA C2HORIUCHI_WTAP_TARGETS_DN
26	-11.88	NULL	2 / 16	GSEA C2KANG_DOXORUBICIN_RESISTANCE_UP
27	-11.88	NULL	2 / 16	GSEA C2KOBAYASHI_EGFR_SIGNALING_24HR_DN
28	-11.79	NULL	3 / 16	GSEA C2FUJII_YBX1_TARGETS_DN
29	-11.58	NULL	2 / 10	GSEA C2TARTE_PLASMA_CELL_VS_PLASMABLAST_DN
30	-11.48	NULL	2 / 16	GSEA C2REACTOME_VPR_MEDIATED_NUCLEAR_IMPORT_OF_PICS
31	-11.48	NULL	2 / 16	GSEA C2REACTOME_REGULATION_OF_GLUCOKINASE_BY_GLUCOKIN
32	-11.2	NULL	5 / 35	BP mitotic nuclear envelope disassembly
33	-11.13	NULL	2 / 10	CC microtubule plus-end
34	-10.73	NULL	2 / 12	GSEA C2ALCALAY_AML_BY_NPM1_LOCALIZATION_DN
35	-10.73	NULL	2 / 12	GSEA C2RIZKI_TUMOR_INVASIVENESS_3D_DN
36	-10.68	NULL	2 / 11	GSEA C2NUYTEN_EZH2_TARGETS_DN
37	-10.52	NULL	2 / 13	GSEA C2ALONSO_METASTASIS_UP
38	-10.52	NULL	1 / 4	MMML C2BACIEJ_MMML 41
39	-10.4	NULL	2 / 16	Cancer WOLFER_overlap genes
40	-10.31	NULL	2 / 10	Cancer GENTLES_modul3

p-values

