

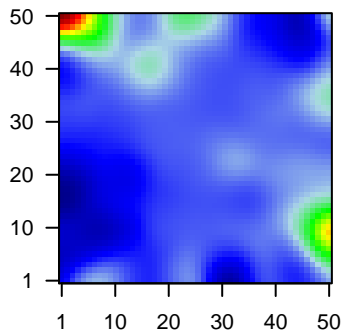
GW_013

Global Summary

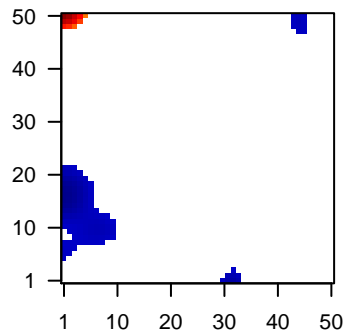
%DE = 0.14
 # genes with fdr < 0.2 = 1655 (1002 + / 653 -)
 # genes with fdr < 0.1 = 1386 (888 + / 498 -)
 # genes with fdr < 0.05 = 1155 (773 + / 382 -)
 # genes with fdr < 0.01 = 786 (594 + / 192 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.1
 <fdr> = 0.86

Profile



Regulated Spots



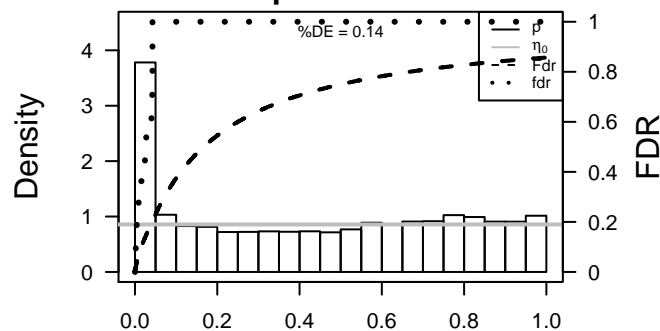
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	1.79	2e-16	2e-14	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	55	1.35	2e-16	2e-14	4 x 50 acid phosphatase, prostate [Source:HGNC Symbol;Acc:125]
3	131	2.69	2e-16	2e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
4	57016	1.55	2e-16	2e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
5	216	2.66	2e-16	2e-14	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC
6	220	1.3	2e-16	2e-14	4 x 46 aldehyde dehydrogenase 1 family, member A3 [Source:HGNC
7	218	2.02	2e-16	2e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
8	242	1.65	2e-16	2e-14	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syrr
9	347	2.34	2e-16	2e-14	50 x 7 apolipoprotein D [Source:HGNC Symbol;Acc:612]
10	360	1.36	2e-16	2e-14	1 x 50 aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:63
11	23120	1.43	2e-16	2e-14	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543
12	10331	1.28	2e-16	2e-14	15 x 40 UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransf
13	80341	1.5	2e-16	2e-14	50 x 10 BPI fold containing family B, member 2 [Source:HGNC Symb
14	684	-1.33	2e-16	2e-14	32 x 1 bone marrow stromal cell antigen 2 [Source:HGNC Symbol;A
15	79949	1.34	2e-16	2e-14	50 x 10 pleckstrin homology domain containing, family S member 1 [S
16	92747	4.5	2e-16	2e-14	50 x 10 BPI fold containing family B, member 1 [Source:HGNC Symb
17	140683	1.76	2e-16	2e-14	18 x 37 BPI fold containing family A, member 2 [Source:HGNC Symb
18	391267	1.38	2e-16	2e-14	50 x 13 ankyrin repeat domain 20 family, member A11, pseudogene [
19	260436	1.42	2e-16	2e-14	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
20	389336	1.3	2e-16	2e-14	5 x 5 chromosome 5 open reading frame 46 [Source:HGNC Symbc

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	31.06	NULL	135	H.Tiss WIRTH_Mucosa
2	16.83	NULL	21	CC cornified envelope
3	14.71	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
4	14.22	NULL	53	BP keratinocyte differentiation
5	13.66	NULL	42	BP keratinization
6	13.52	NULL	19	BP peptide cross-linking
7	13.16	NULL	16	GSEA C2CROMER_TUMORIGENESIS_DN
8	10.58	NULL	375	Disease GUDJ_pсориаis down
9	9.15	NULL	24	TF Tissu/AQUERIZAS_Trachea
10	8.7	NULL	572	Disease GUDJ_pсориаis up
11	8.65	NULL	16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
12	8.46	NULL	1146	TF HEBENSTREIT_low expression TF
13	8.38	NULL	1182	CC extracellular region
14	8.05	NULL	15	GSEA C2LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
15	7.78	NULL	16	GSEA C2AZARD_UV_RESPONSE_CLUSTER_G24
16	7.65	NULL	12	BP cellular aldehyde metabolic process
17	7.55	NULL	38	BP epithelial cell differentiation
18	7.49	NULL	186	MF structural molecule activity
19	7.44	NULL	201	CC apical plasma membrane
20	7.38	NULL	618	Chr Chr 4
<i>Underexpressed</i>				
1	-12.53	NULL	142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	-12.53	NULL	142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	-9.58	NULL	370	BP mitotic cell cycle
4	-9.37	NULL	51	BP type I interferon signaling pathway
5	-8.64	NULL	4	MMML C2CIEJ_MMML_23
6	-7.62	NULL	74	BP antigen processing and presentation of exogenous peptide antigen
7	-7.52	NULL	949	CC nucleoplasm
8	-7.51	NULL	13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
9	-7.5	NULL	16	GSEA C2EINAV_INTERFERON_SIGNATURE_IN_CANCER
10	-7.4	NULL	123	BP defense response to virus
11	-7.36	NULL	16	GSEA C2JROSEVIC_RESPONSE_TO_IMIQUIMOD
12	-7.33	NULL	70	BP antigen processing and presentation of exogenous peptide antigen
13	-7.17	NULL	530	Cancer Lembecke_Normal vs Adenoma
14	-7.16	NULL	16	GSEA C2ZHANG_INTERFERON_RESPONSE
15	-7.11	NULL	10	GSEA C2BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
16	-6.91	NULL	74	BP anaphase-promoting complex-dependent proteasomal ubiquitin-c
17	-6.86	NULL	4640	CC nucleus
18	-6.46	NULL	298	BP DNA repair
19	-6.33	NULL	16	GSEA C2MOSERLE_IFNA_RESPONSE
20	-6.33	NULL	70	BP regulation of ubiquitin-protein ligase activity involved in mitotic cell

p-values



GW_013

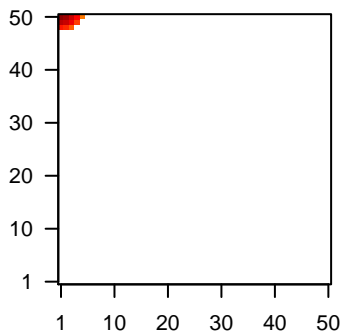
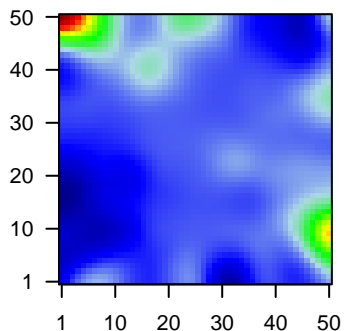
Local Summary

%DE = 0.99
 # metagenes = 12
 # genes = 196
 # genes in genesets = 192
 # genes with $fdr < 0.1 = 192$ (187 + / 5 -)
 # genes with $fdr < 0.05 = 190$ (185 + / 5 -)
 # genes with $fdr < 0.01 = 190$ (185 + / 5 -)

<r> metagenes = 0.98
 <r> genes = 0.47
 <FC> = 1.2
 <shrinkage-t> = 42.14
 <p-value> = 0
 <fdr> = 0.04

Profile

Spot



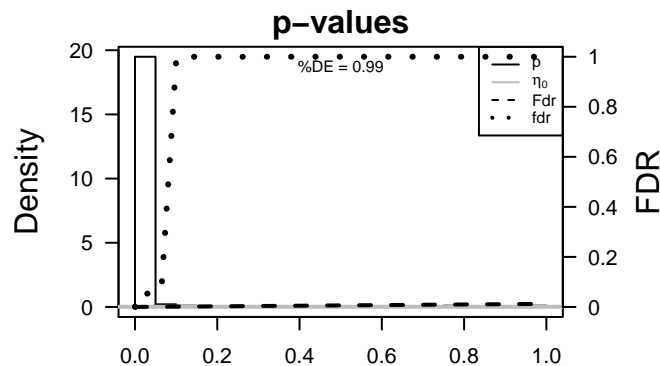
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	1.79	2e-16	7e-18	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	55	1.35	2e-16	7e-18	4 x 50 acid phosphatase, prostate [Source:HGNC Symbol;Acc:125]
3	131	2.69	2e-16	7e-18	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
4	57016	1.55	2e-16	7e-18	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
5	218	2.02	2e-16	7e-18	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
6	242	1.65	2e-16	7e-18	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Synt
7	360	1.36	2e-16	7e-18	1 x 50 aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:63
8	23120	1.43	2e-16	7e-18	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543
9	394263	2.01	2e-16	7e-18	3 x 50
10	375791	2.3	2e-16	7e-18	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
11	1048	2.19	2e-16	7e-18	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
12	4680	1.72	2e-16	7e-18	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (
13	22802	2.75	2e-16	7e-18	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
14	9022	1.74	2e-16	7e-18	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2l
15	84518	1.84	2e-16	7e-18	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
16	54544	1.85	2e-16	7e-18	1 x 50 cysteine-rich C-terminal 1 [Source:HGNC Symbol;Acc:2987
17	49860	2.99	2e-16	7e-18	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
18	1475	1.4	2e-16	7e-18	1 x 50 cystatin A (stefin A) [Source:HGNC Symbol;Acc:2481]
19	1562	1.94	2e-16	7e-18	1 x 50 cytochrome P450, family 2, subfamily C, polypeptide 18 [Sou
20	1577	2.28	2e-16	7e-18	4 x 50 cytochrome P450, family 3, subfamily A, polypeptide 5 [Sourc

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	57.88	NULL	72 / 135	H.Tiss WIRTH_Mucosa
2	35.1	NULL	14 / 21	CC cornified envelope
3	28.74	NULL	16 / 42	BP keratinization
4	27.84	NULL	19 / 53	BP keratinocyte differentiation
5	24.52	NULL	8 / 19	BP peptide cross-linking
6	22.27	NULL	76 / 572	Disease GUDJ_psooriasis up
7	20.22	NULL	6 / 16	GSEA C2OROMER_TUMORIGENESIS_DN
8	17.32	NULL	19 / 76	BP epidermis development
9	15.86	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS KERATINOCYTE_DN
10	14.02	NULL	5 / 10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
11	13.01	NULL	7 / 38	BP epithelial cell differentiation
12	12.58	NULL	6 / 16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
13	11.54	NULL	6 / 13	BP negative regulation of peptidase activity
14	11.31	NULL	4 / 15	MF retinol dehydrogenase activity
15	10.91	NULL	4 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
16	10.37	NULL	12 / 122	MF serine-type endopeptidase activity
17	10.35	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
18	9.87	NULL	11 / 79	MF serine-type endopeptidase inhibitor activity
19	9.76	NULL	6 / 15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
20	9.76	NULL	5 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
21	9.71	NULL	2 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
22	9.69	NULL	4 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
23	9.69	NULL	3 / 11	GSEA C2REACTOME_XENOBIOTICS
24	9.54	NULL	5 / 21	CC desmosome
25	9.46	NULL	3 / 14	GSEA C2KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP
26	9.45	NULL	49 / 1182	CC extracellular region
27	9.29	NULL	5 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
28	8.92	NULL	3 / 14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
29	8.89	NULL	3 / 12	BP cellular aldehyde metabolic process
30	8.58	NULL	13 / 186	MF structural molecule activity
31	8.42	NULL	4 / 23	MF peptidase inhibitor activity
32	8.39	NULL	4 / 44	CC keratin filament
33	8.29	NULL	1 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_B_DN
34	8.04	NULL	3 / 18	BP retinol metabolic process
35	7.63	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP
36	7.51	NULL	2 / 15	GSEA C2ALONSO_METASTASIS_NEURAL_UP
37	7.42	NULL	3 / 16	GSEA C2OLDREN_GEFITINIB_RESISTANCE_DN
38	7.39	NULL	4 / 39	BP retinoid metabolic process
39	7.3	NULL	5 / 10	MF RAGE receptor binding
40	7.16	NULL	3 / 15	GSEA C2CHANG_IMMORTALIZED_BY_HPV31_DN



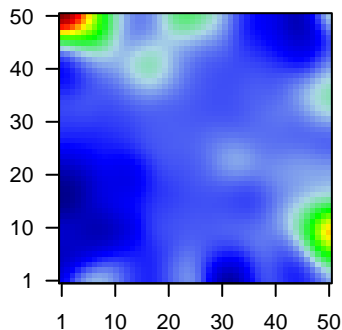
GW_013

Local Summary

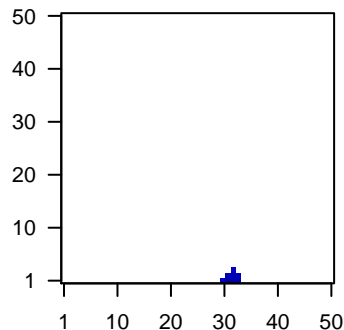
%DE = 0.92
 # metagenes = 8
 # genes = 127
 # genes in genesets = 124
 # genes with $fdr < 0.1 = 104$ (2 + / 102 -)
 # genes with $fdr < 0.05 = 100$ (2 + / 98 -)
 # genes with $fdr < 0.01 = 75$ (2 + / 73 -)

<r> metagenes = 0.99
 <r> genes = 0.43
 <FC> = -0.48
 <shrinkage-t> = -16.77
 <p-value> = 0
 <fdr> = 0.36

Profile



Spot



Local Genelist

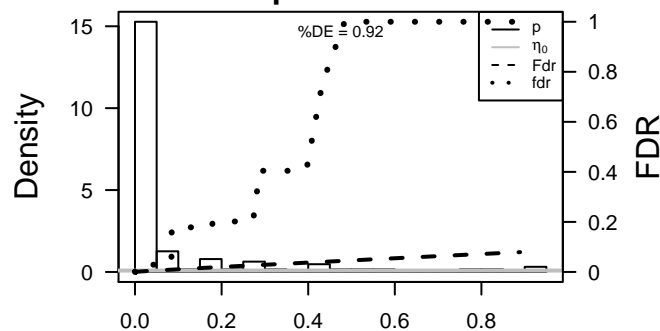
Rank	ID	log(FC)	fdr	p-value	Description
1	684	-1.33	2e-16	8e-16	32 x 1 bone marrow stromal cell antigen 2 [Source:HGNC Symbol;A
2	3627	-1.28	2e-16	8e-16	32 x 1 chemokine (C-X-C motif) ligand 10 [Source:HGNC Symbol;f
3	9636	-1.57	2e-16	8e-16	32 x 1 ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:405
4	1591	1.16	8e-14	1e-10	33 x 2 cytochrome P450, family 24, subfamily A, polypeptide 1 [Sou
5	51191	-1.06	1e-11	2e-10	32 x 1 HECT and RLD domain containing E3 ubiquitin protein ligase
6	4321	-1.02	5e-11	2e-10	32 x 1 matrix metalloproteinase 12 (macrophage elastase) [Source:H
7	7453	-1.02	6e-11	2e-10	32 x 1 tryptophanyl-tRNA synthetase [Source:HGNC Symbol;Acc:1:
8	3430	-1.02	7e-11	3e-09	32 x 1 interferon-induced protein 35 [Source:HGNC Symbol;Acc:53:
9	115362	-0.95	1e-09	3e-09	32 x 1 guanylate binding protein 5 [Source:HGNC Symbol;Acc:1989
10	10410	-0.87	1e-09	3e-09	32 x 1 interferon induced transmembrane protein 3 [Source:HGNC S
11	3433	-0.94	2e-09	3e-09	32 x 1 interferon-induced protein with tetratricopeptide repeats 2 [Sc
12	2537	-0.94	2e-09	3e-09	32 x 1 interferon, alpha-inducible protein 6 [Source:HGNC Symbol;f
13	10581	-0.86	2e-09	3e-09	32 x 1 interferon induced transmembrane protein 2 [Source:HGNC S
14	5699	-0.93	2e-09	5e-09	32 x 1 proteasome (prosome, macropain) subunit, beta type, 10 [Sou
15	8519	-0.92	3e-09	5e-09	32 x 1 interferon induced transmembrane protein 1 [Source:HGNC S
16	94240	-0.92	3e-09	2e-08	32 x 1 epithelial stromal interaction 1 (breast) [Source:HGNC Symbc
17	51296	-0.91	4e-09	3e-07	32 x 1 solute carrier family 15 (oligopeptide transporter), member 3
18	100	-0.85	4e-08	3e-07	30 x 1 adenosine deaminase [Source:HGNC Symbol;Acc:186]
19	5721	-0.84	6e-08	3e-07	32 x 1 proteasome (prosome, macropain) activator subunit 2 (PA28 I
20	4061	-0.83	8e-08	2e-06	32 x 1 lymphocyte antigen 6 complex, locus E [Source:HGNC Symb

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-52.02	NULL	29 / 51	BP type I interferon signaling pathway
2	-45.92	NULL	9 / 10	GSEA C2BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
3	-44.97	NULL	11 / 16	GSEA C2EINAV_INTERFERON_SIGNATURE_IN_CANCER
4	-42.19	NULL	10 / 13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
5	-39.92	NULL	8 / 10	GSEA C2GRANDVAUX_IFN_RESPONSE_NOT_VIA_IRF3
6	-38.69	NULL	13 / 16	GSEA C2MOSERLE_IFNA_RESPONSE
7	-38.14	NULL	11 / 16	GSEA C2UROSEVIC_RESPONSE_TO_IMIQUIMOD
8	-37.73	NULL	11 / 16	GSEA C2ZHANG_INTERFERON_RESPONSE
9	-34.95	NULL	13 / 31	BP negative regulation of viral genome replication
10	-34.38	NULL	3 / 4	GSEA C2KRASNOSELSKAYA_ILF3_TARGETS_UP
11	-33.44	NULL	31 / 123	BP defense response to virus
12	-33.3	NULL	8 / 11	GSEA C2BENNETT_SYSTEMIC_LUPUS_ERYTHEMATOSUS
13	-31.2	NULL	6 / 6	LymphomaTAVI_MHCCII BL DN
14	-31.07	NULL	27 / 109	BP response to virus
15	-29.61	NULL	6 / 12	GSEA C2TSAL_DNAJB4_TARGETS_UP
16	-28.52	NULL	34 / 204	BP cytokine-mediated signaling pathway
17	-27.45	NULL	3 / 5	GSEA C2KIM_LRRC3B_TARGETS
18	-27.43	NULL	6 / 8	GSEA C2ROETH_TERT_TARGETS_UP
19	-26.91	NULL	4 / 12	GSEA C2ZHU_CMV_8_HR_UP
20	-25.37	NULL	6 / 14	GSEA C2RADAIEVA_RESPONSE_TO_IFNA1_UP
21	-24.84	NULL	6 / 14	GSEA C2XU_AKT1_TARGETS_6HR
22	-24.68	NULL	7 / 10	CC MHC class I protein complex
23	-24.64	NULL	7 / 16	GSEA C2MAHADEVAN_RESPONSE_TO_MP470_UP
24	-24.04	NULL	4 / 10	GSEA C2DAUER_STAT3_TARGETS_DN
25	-23.05	NULL	33 / 274	LymphomaTAVI_PANG_IL21 DN
26	-22.16	NULL	6 / 16	GSEA C2XU_HGF_TARGETS_INDUCED_BY_AKT1_6HR
27	-21.95	NULL	5 / 18	BP response to interferon-gamma
28	-21.63	NULL	6 / 14	Glio Donson-immune cell intra signaling-associated with LTS in HGA
29	-21.24	NULL	5 / 14	GSEA C2TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_UP
30	-21.07	NULL	4 / 15	GSEA C2BECKER_TAMOXIFEN_RESISTANCE_UP
31	-20.96	NULL	5 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
32	-20.82	NULL	47 / 572	Disease GUDJ_psooriasis up
33	-20.29	NULL	3 / 13	GSEA C2TSAL_RESPONSE_TO_RADIATION_THERAPY
34	-20.08	NULL	4 / 14	GSEA C2TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_UP
35	-20.04	NULL	2 / 2	MMLL C2CIEJ_MMLL 27
36	-19.81	NULL	3 / 9	GSEA C2DER_IFN_ALPHA_RESPONSE_UP
37	-19.81	NULL	3 / 9	GSEA C2DER_IFN_GAMMA_RESPONSE_UP
38	-19.63	NULL	8 / 18	BP positive regulation of T cell mediated cytotoxicity
39	-19.19	NULL	16 / 60	BP interferon-gamma-mediated signaling pathway
40	-19.12	NULL	5 / 16	GSEA C2ZHANG_ANTIVIRAL_RESPONSE_TO_RIBAVIRIN_UP

p-values



GW_013

Local Summary

%DE = 0.89
 # metagenes = 109
 # genes = 1068
 # genes in genesets = 1059

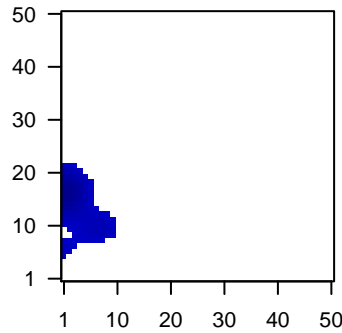
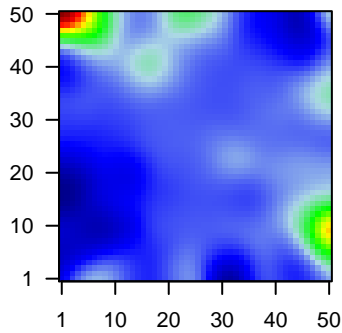
genes with $fdr < 0.1 = 721$ (12 + / 709 -)
 # genes with $fdr < 0.05 = 560$ (8 + / 552 -)
 # genes with $fdr < 0.01 = 189$ (4 + / 185 -)

$\langle r \rangle$ metagenes = 0.74
 $\langle r \rangle$ genes = 0.19

$\langle FC \rangle = -0.29$
 $\langle \text{shrinkage-t} \rangle = -10.04$
 $\langle p\text{-value} \rangle = 0.03$
 $\langle fdr \rangle = 0.7$

Profile

Spot



Local Genelist

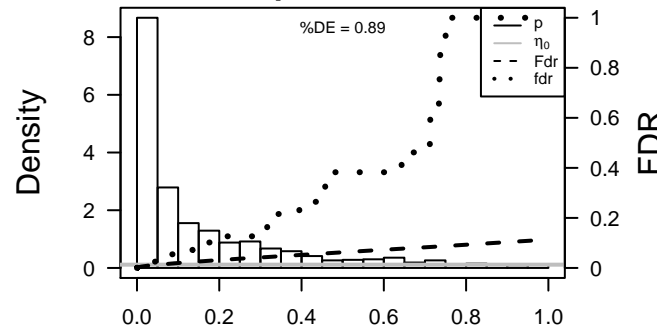
Rank	ID	log(FC)	fdr	p-value	Description
1	768	-0.98	2e-10	1e-08	1 x 6 carbonic anhydrase IX [Source:HGNC Symbol;Acc:1383]
2	3237	-0.98	4e-10	1e-08	1 x 16 homeobox D11 [Source:HGNC Symbol;Acc:5134]
3	682	-0.97	4e-10	7e-08	4 x 11 basigin (Ok blood group) [Source:HGNC Symbol;Acc:1116]
4	375790	-0.95	1e-09	7e-08	1 x 7 agrin [Source:HGNC Symbol;Acc:329]
5	5690	-0.94	2e-09	2e-07	1 x 15 proteasome (prosome, macropain) subunit, beta type, 2 [Sou
6	28514	0.92	3e-09	3e-07	1 x 5 delta-like 1 (Drosophila) [Source:HGNC Symbol;Acc:2908]
7	10459	-0.9	6e-09	8e-07	8 x 9 MAD2 mitotic arrest deficient-like 2 (yeast) [Source:HGNC S
8	284111	0.87	2e-08	8e-07	1 x 7 solute carrier family 13 (sodium-dependent citrate transporte
9	3909	-0.87	2e-08	8e-07	1 x 5 laminin, alpha 3 [Source:HGNC Symbol;Acc:6483]
10	84058	-0.87	3e-08	2e-06	1 x 7 WD repeat domain 54 [Source:HGNC Symbol;Acc:25770]
11	10130	-0.85	4e-08	7e-06	1 x 13 protein disulfide isomerase family A, member 6 [Source:HGNC
12	51373	-0.82	1e-07	7e-06	1 x 16 28S ribosomal protein S17, mitochondrial; HCG1984214, isof
13	3217	-0.8	3e-07	7e-06	1 x 15 homeobox B7 [Source:HGNC Symbol;Acc:5118]
14	2026	-0.8	3e-07	7e-06	10 x 10 enolase 2 (gamma, neuronal) [Source:HGNC Symbol;Acc:33
15	23338	-0.79	3e-07	7e-06	10 x 12 jade family PHD finger 2 [Source:HGNC Symbol;Acc:22984]
16	57109	-0.79	4e-07	7e-06	1 x 20 REX4, RNA exonuclease 4 homolog (S. cerevisiae) [Source:t
17	3654	-0.79	4e-07	2e-05	3 x 13 interleukin-1 receptor-associated kinase 1 [Source:HGNC S
18	2131	-0.77	6e-07	2e-05	1 x 6 exostosin glycosyltransferase 1 [Source:HGNC Symbol;Acc:3
19	8772	-0.76	9e-07	2e-05	1 x 14 Fas (TNFRSF6)-associated via death domain [Source:HGNC
20	10981	-0.76	1e-06	3e-05	1 x 5 RAB32, member RAS oncogene family [Source:HGNC Symb

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-9.37	NULL	7 / 13	GSEA C2REACTOME_GLYCOLYSIS
2	-9.02	NULL	4 / 8	GSEA C2NIKOLSKY_BREAST_CANCER_5P15_AMPLICON
3	-8.8	NULL	15 / 66	BP positive regulation of ubiquitin-protein ligase activity involved in mit
4	-8.8	NULL	14 / 55	CC proteasome complex
5	-8.62	NULL	12 / 48	BP regulation of cellular amino acid metabolic process
6	-8.6	NULL	14 / 62	BP negative regulation of ubiquitin-protein ligase activity involved in m
7	-8.45	NULL	15 / 70	BP regulation of ubiquitin-protein ligase activity involved in mitotic cell
8	-8.11	NULL	15 / 74	BP anaphase-promoting complex-dependent proteasomal ubiquitin-c
9	-7.99	NULL	15 / 70	BP antigen processing and presentation of exogenous peptide antigen
10	-7.76	NULL	7 / 17	CC proteasome accessory complex
11	-7.67	NULL	15 / 74	BP antigen processing and presentation of exogenous peptide antigen
12	-7.67	NULL	6 / 12	BP heparan sulfate proteoglycan biosynthetic process
13	-7.52	NULL	2 / 5	GSEA C2DASU_IL6_SIGNALING_UP
14	-7.51	NULL	6 / 15	GSEA C2HU_ANGIOGENESIS_UP
15	-7.48	NULL	5 / 17	CC proteasome core complex
16	-7.37	NULL	3 / 8	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_25
17	-7.22	NULL	5 / 18	MF threonine-type endopeptidase activity
18	-7.16	NULL	16 / 91	BP antigen processing and presentation of peptide antigen via MHC cl
19	-7.11	NULL	12 / 63	BP DNA damage response, signal transduction by p53 class mediator
20	-6.94	NULL	4 / 10	GSEA C2HONMA_DOCETAXEL_RESISTANCE
21	-6.93	NULL	28 / 153	MF structural constituent of ribosome
22	-6.9	NULL	5 / 12	GSEA C2CREIGHTON_AKT1_SIGNALING_VIA_MTOR_UP
23	-6.88	NULL	5 / 15	GSEA C2DAGOSTA_UV_RESPONSE_VIA_ERCC3_TTD_UP
24	-6.86	NULL	1 / 2	GSEA C2PELLICCIOTTA_HDAC_IN_ANTIEN_PRESENTATION_DN
25	-6.86	NULL	1 / 2	GSEA C2REACTOME_DIABETES_PATHWAYS
26	-6.84	NULL	4 / 15	GSEA C2BIOCARTA_PROTEASOME_PATHWAY
27	-6.73	NULL	4 / 12	BP hemidesmosome assembly
28	-6.67	NULL	5 / 10	GSEA C2HOFMANN_MYELODYSPLASTIC_SYNDROM_LOW_RISK_DN
29	-6.57	NULL	8 / 32	BP glycosaminoglycan biosynthetic process
30	-6.53	NULL	6 / 25	BP proteolysis involved in cellular protein catabolic process
31	-6.44	NULL	39 / 253	BP translation
32	-6.4	NULL	6 / 16	GSEA C2SHIPP_DLCL_VS_FOLLICULAR_LYMPHOMA_UP
33	-6.23	NULL	7 / 16	GSEA C2JIANG_HYPOXIA_VIA_VHL
34	-6.21	NULL	145 / 1318	CC mitochondrion
35	-6.19	NULL	7 / 19	CC mitochondrial small ribosomal subunit
36	-6.18	NULL	1 / 2	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_14
37	-6.17	NULL	76 / 530	Cancer Lembecke_Normal vs Adenoma
38	-6.16	NULL	16 / 106	BP protein polyubiquitination
39	-6.09	NULL	5 / 14	GSEA C2RIZKI_TUMOR_INVASIVENESS_2D_DN
40	-6.09	NULL	101 / 717	Chr Chr 16

p-values



GW_013

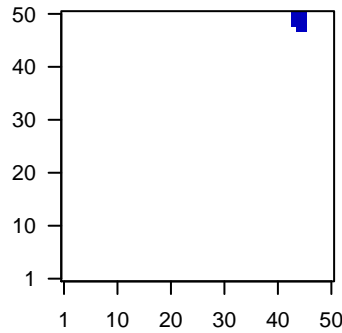
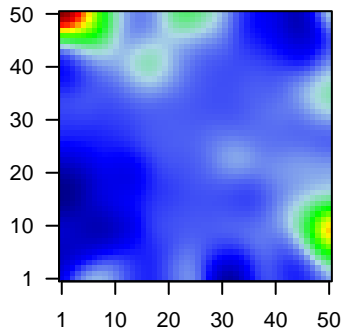
Local Summary

%DE = 0.84
 # metagenes = 11
 # genes = 149
 # genes in genesets = 147
 # genes with $fdr < 0.1$ = 98 (0 + / 98 -)
 # genes with $fdr < 0.05$ = 85 (0 + / 85 -)
 # genes with $fdr < 0.01$ = 47 (0 + / 47 -)

<r> metagenes = 0.98
 <r> genes = 0.5
 <FC> = -0.35
 <shrinkage-t> = -12.36
 <p-value> = 0.01
 <fdr> = 0.54

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	Description	
		p-value		Metagene	
1	1163	-0.76	9e-07	4e-05	44 x 50 CDC28 protein kinase regulatory subunit 1B [Source:HGNC Symbol;Acc:11393]
2	7083	-0.73	3e-06	6e-05	45 x 49 thymidine kinase 1, soluble [Source:HGNC Symbol;Acc:11830]
3	6790	-0.71	5e-06	2e-04	44 x 50 aurora kinase A [Source:HGNC Symbol;Acc:11393]
4	55355	-0.65	3e-05	2e-04	44 x 49 Holliday junction recognition protein [Source:HGNC Symbol;Acc:11393]
5	890	-0.65	3e-05	2e-04	44 x 50 cyclin A2 [Source:HGNC Symbol;Acc:1578]
6	9212	-0.64	3e-05	2e-04	45 x 48 aurora kinase B [Source:HGNC Symbol;Acc:11390]
7	83461	-0.64	4e-05	2e-04	44 x 50 cell division cycle associated 3 [Source:HGNC Symbol;Acc:11393]
8	2305	-0.63	5e-05	2e-04	44 x 49 forkhead box M1 [Source:HGNC Symbol;Acc:3818]
9	1033	-0.63	6e-05	2e-04	43 x 50 cyclin-dependent kinase inhibitor 3 [Source:HGNC Symbol;Acc:11393]
10	891	-0.62	6e-05	3e-04	44 x 49 cyclin B1 [Source:HGNC Symbol;Acc:1579]
11	22974	-0.61	8e-05	3e-04	44 x 50 TPX2, microtubule-associated [Source:HGNC Symbol;Acc:11393]
12	10797	-0.61	9e-05	3e-04	43 x 50 methylenetetrahydrofolate dehydrogenase (NADP+ dependent)
13	10112	-0.61	9e-05	3e-04	44 x 49 kinesin family member 20A [Source:HGNC Symbol;Acc:9787]
14	10535	-0.6	1e-04	4e-04	45 x 47 ribonuclease H2, subunit A [Source:HGNC Symbol;Acc:1851]
15	6119	-0.6	1e-04	4e-04	43 x 48 replication protein A3, 14kDa [Source:HGNC Symbol;Acc:102]
16	29089	-0.58	2e-04	4e-04	45 x 49 ubiquitin-conjugating enzyme E2T (putative) [Source:HGNC Symbol;Acc:11393]
17	90390	-0.58	2e-04	4e-04	44 x 50 mediator complex subunit 30 [Source:HGNC Symbol;Acc:230]
18	55143	-0.58	2e-04	4e-04	44 x 49 cell division cycle associated 8 [Source:HGNC Symbol;Acc:11393]
19	8317	-0.57	2e-04	4e-04	45 x 47 cell division cycle 7 [Source:HGNC Symbol;Acc:1745]
20	9133	-0.57	2e-04	4e-04	45 x 49 cyclin B2 [Source:HGNC Symbol;Acc:1580]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-72.53	NULL	76 / 142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	-72.53	NULL	76 / 142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	-39.28	NULL	12 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_2
4	-36.22	NULL	13 / 16	GSEA C2FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL
5	-35.4	NULL	12 / 15	GSEA C2FINETTI_BREAST_CANCER_KINOME_RED
6	-35	NULL	10 / 15	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
7	-34.05	NULL	10 / 14	GSEA C2ZHAN_MULTIPLE_MYELOMA_PR_UP
8	-32.92	NULL	10 / 14	MMML C2SCIEJ_MMML_4
9	-32.03	NULL	9 / 13	GSEA C2CROONQUIST_IL6_DEPRIVATION_DN
10	-30.63	NULL	10 / 16	GSEA C2GUCHI_CELL_CYCLE_RB1_TARGETS
11	-29.98	NULL	20 / 57	Glio developing astrocytes
12	-28.89	NULL	8 / 10	GSEA C2MONTERO_THYROID_CANCER_POOR_SURVIVAL_UP
13	-28.64	NULL	66 / 530	Cancer Lembcke_Normal vs Adenoma
14	-28.4	NULL	9 / 15	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_DN
15	-27.11	NULL	58 / 370	BP mitotic cell cycle
16	-26.74	NULL	10 / 18	BP spindle organization
17	-25.07	NULL	9 / 16	GSEA C2KANG_DOXORUBICIN_RESISTANCE_UP
18	-24.5	NULL	6 / 16	Cancer RHODES_UNDIFFERENTIATED_CANCER
19	-24.16	NULL	7 / 15	GSEA C2Y_AGING_MIDDLE_DN
20	-24.12	NULL	7 / 15	GSEA C2CHANG_CYCLING_GENES
21	-24.04	NULL	7 / 16	GSEA C2CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP
22	-23.48	NULL	7 / 16	GSEA C2SCAN_CELL_CYCLE_TARGETS_OF_TP53_AND_TP73_DN
23	-23.09	NULL	53 / 572	Disease GUDJ_poriasis up
24	-22.87	NULL	8 / 15	GSEA C2LEE_EARLY_T_LYMPHOCYTE_UP
25	-22.84	NULL	7 / 14	GSEA C2AMUNDSON_GAMMA_RADIATION_RESPONSE
26	-22.25	NULL	4 / 9	GSEA C2KUMAMOTO_RESPONSE_TO_NUTLIN_3A_DN
27	-22.19	NULL	6 / 15	GSEA C2TANG_SENESCENCE_TP53_TARGETS_DN
28	-21.98	NULL	7 / 15	GSEA C2SMID_BREAST_CANCER_LUMINAL_A_DN
29	-21.48	NULL	6 / 16	GSEA C2CROONQUIST_NRAS_SIGNALING_DN
30	-20.9	NULL	7 / 16	GSEA C2GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_DN
31	-20.18	NULL	16 / 56	CC chromosome, centromeric region
32	-20.03	NULL	34 / 232	BP mitosis
33	-19.76	NULL	5 / 14	GSEA C2MISSIAGLIA_REGULATED_BY_METHYLATION_DN
34	-19.45	NULL	4 / 12	GSEA C2SHEPARD_BMYB_TARGETS
35	-19.33	NULL	5 / 13	GSEA C2REN_BOUND_BY_E2F
36	-18.83	NULL	5 / 16	GSEA C2FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_DN
37	-18.73	NULL	5 / 16	GSEA C2CROONQUIST_NRAS_VS_STROMAL_STIMULATION_DN
38	-17.93	NULL	5 / 14	GSEA C2LOPEZ_MESOTELIOMA_SURVIVAL_TIME_UP
39	-17.88	NULL	6 / 11	BP mitotic metaphase plate congression
40	-17.62	NULL	4 / 11	GSEA C2JIANG_SILENCED_BY_METHYLATION_DN

p-values

