

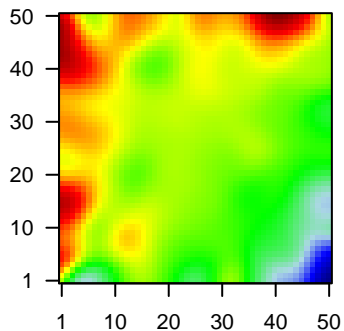
GW_211

Global Summary

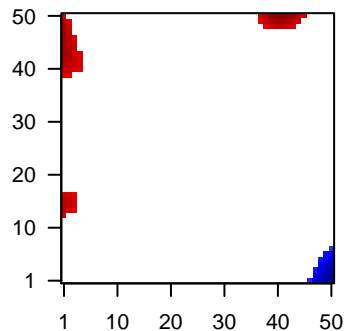
%DE = 0.13
 # genes with fdr < 0.2 = 1753 (955 + / 798 -)
 # genes with fdr < 0.1 = 1408 (796 + / 612 -)
 # genes with fdr < 0.05 = 972 (560 + / 412 -)
 # genes with fdr < 0.01 = 755 (447 + / 308 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.12
 <fdr> = 0.87

Profile



Regulated Spots



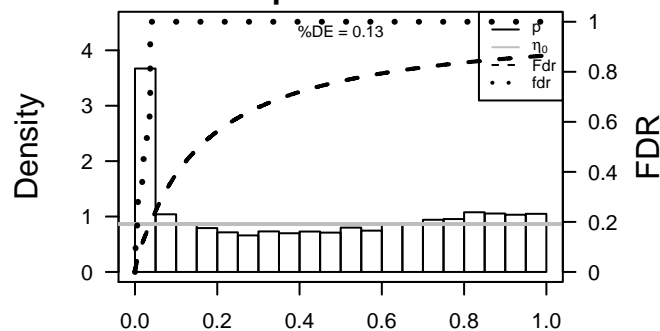
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	242	1.56	2e-16	4e-14	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syrn
2	55107	2.36	2e-16	4e-14	1 x 5 anoctamin 1, calcium activated chloride channel [Source:HG
3	92747	2.45	2e-16	4e-14	50 x 10 BPI fold containing family B, member 1 [Source:HGNC Symb
4	760	1.91	2e-16	4e-14	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
5	92291	1.48	2e-16	4e-14	50 x 11 calpain 13 [Source:HGNC Symbol;Acc:16663]
6	6363	-1.51	2e-16	4e-14	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc
7	894	-1.46	2e-16	4e-14	50 x 4 cyclin D2 [Source:HGNC Symbol;Acc:1583]
8	908	1.68	2e-16	4e-14	40 x 50 chaperonin containing TCP1, subunit 6A (zeta 1) [Source:HG
9	1382	2.07	2e-16	4e-14	1 x 48 cellular retinoic acid binding protein 2 [Source:HGNC Symbol
10	2919	1.5	2e-16	4e-14	1 x 1 chemokine (C-X-C motif) ligand 1 (melanoma growth stimule
11	9547	-1.56	2e-16	4e-14	1 x 46 chemokine (C-X-C motif) ligand 14 [Source:HGNC Symbol;f
12	6372	2.61	2e-16	4e-14	1 x 1 chemokine (C-X-C motif) ligand 6 [Source:HGNC Symbol;Ac
13	1673	2.52	2e-16	4e-14	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
14	1809	-1.92	2e-16	4e-14	6 x 1 dihydropyrimidinase-like 3 [Source:HGNC Symbol;Acc:3015]
15	2354	-2.44	2e-16	4e-14	22 x 50 FBJ murine osteosarcoma viral oncogene homolog B [Source
16	10468	1.44	2e-16	4e-14	1 x 5 follistatin [Source:HGNC Symbol;Acc:3971]
17	51083	2.04	2e-16	4e-14	1 x 15 galanin/GMAP prepropeptide [Source:HGNC Symbol;Acc:41
18	2631	1.52	2e-16	4e-14	39 x 50 glioblastoma amplified sequence [Source:HGNC Symbol;Acc
19	3040	-1.57	2e-16	4e-14	4 x 1 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]
20	3043	-1.44	2e-16	4e-14	5 x 1 hemoglobin, beta [Source:HGNC Symbol;Acc:4827]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	15.34	NULL	572	Disease GUDJ_poriasis up
2	10.05	NULL	21	CC cornified envelope
3	9.72	NULL	42	BP keratinization
4	9.6	NULL	76	BP epidermis development
5	9.52	NULL	530	Cancer Lembcke_Normal vs Adenoma
6	9.03	NULL	10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
7	8.38	NULL	534	Chr Chr 8
8	7.29	NULL	1720	Chr Chr 1
9	7.12	NULL	15	GSEA C2SNJUDERS_AMPLIFIED_IN_HEAD_AND_NECK_TUMORS
10	7.04	NULL	142	Glio willscher_GBM_Verhaak-CL_expression_C_up
11	7.04	NULL	142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
12	6.94	NULL	717	Chr Chr 16
13	6.77	NULL	53	BP keratinocyte differentiation
14	6.69	NULL	10	BP cellular response to zinc ion
15	6.57	NULL	135	H.Tiss WIRTH_Mucosa
16	6.52	NULL	7	MMML C6SCIEJ_MMML 13
17	6.44	NULL	15	GSEA C2FARMER_BREAST_CANCER_CLUSTER_3
18	6.28	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_4
19	6.27	NULL	15	MF interleukin-1 receptor binding
20	5.89	NULL	13	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_C
<i>Underexpressed</i>				
1	-10.95	NULL	16	GSEA C2CROONQUIST_STROMAL_STIMULATION_UP
2	-9.9	NULL	15	CC MHC class II protein complex
3	-9.67	NULL	417	H.Tiss WIRTH_Immune system
4	-9.67	NULL	250	LymphoidENZ_Stromal signature 1
5	-8.62	NULL	8	GSEA C2RUNNE_GENDER_EFFECT_UP
6	-8.32	NULL	10	GSEA C2CHASSOT_SKIN_WOUND
7	-8.29	NULL	714	Chr Chr 6
8	-8.25	NULL	7	MMML C6SCIEJ_MMML 5
9	-7.43	NULL	553	Cancer Lembcke_Colonc Inflammation
10	-7.22	NULL	9	GSEA C2GUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_1_D
11	-7.08	NULL	504	Chr Chr 15
12	-6.85	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
13	-6.52	NULL	327	LymphoidSPANG_CD40 6hrs UP
14	-6.47	NULL	190	CC extracellular matrix
15	-6.44	NULL	24	TF TissueAQUERIZAS_Trachea
16	-6.41	NULL	316	Cancer SPANG_BCL6-index2
17	-6.39	NULL	11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
18	-6.36	NULL	11	MF platelet-derived growth factor binding
19	-6.31	NULL	162	CC external side of plasma membrane
20	-6.3	NULL	60	BP T cell costimulation

p-values



GW_211

Local Summary

%DE = 0.61
 # metagenes = 13
 # genes = 164
 # genes in genesets = 164

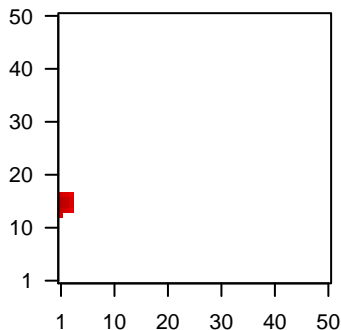
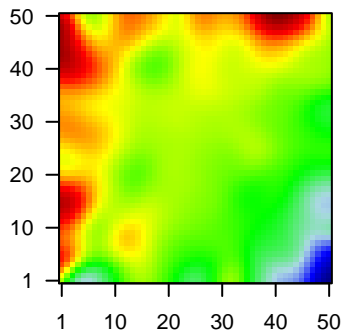
genes with $fdr < 0.1 = 70$ (70 + / 0 -)
 # genes with $fdr < 0.05 = 50$ (50 + / 0 -)
 # genes with $fdr < 0.01 = 30$ (30 + / 0 -)

<r> metagenes = 0.98
 <r> genes = 0.3

<FC> = 0.4
 <shrinkage-t> = 14.17
 <p-value> = 0
 <fdr> = 0.62

Profile

Spot



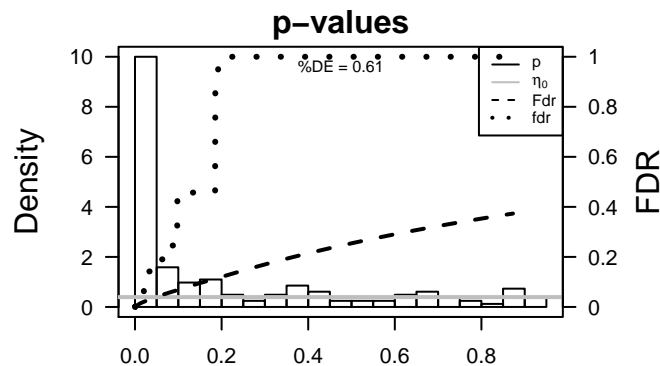
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	51083	2.04	2e-16	4e-15	1 x 15 galanin/GMAP prepropeptide [Source:HGNC Symbol;Acc:41
2	93273	1.58	2e-16	4e-15	2 x 15 LEM domain containing 1 [Source:HGNC Symbol;Acc:18725]
3	51373	1.94	2e-16	4e-15	1 x 16 28S ribosomal protein S17, mitochondrial; HCG1984214, isof
4	283869	2.03	2e-16	4e-15	1 x 17 neuropeptide W [Source:HGNC Symbol;Acc:30509]
5	4495	1.29	3e-13	3e-11	1 x 16 metallothionein 1G [Source:HGNC Symbol;Acc:7399]
6	142678	1.27	7e-13	2e-10	1 x 17 mindbomb E3 ubiquitin protein ligase 2 [Source:HGNC Symb
7	131076	1.23	4e-12	2e-07	1 x 16 coiled-coil domain containing 58 [Source:HGNC Symbol;Acc
8	27294	1.04	3e-09	4e-07	1 x 16 dihydrodiol dehydrogenase (dimeric) [Source:HGNC Symbol;
9	4728	1.01	9e-09	6e-07	2 x 17 NADH dehydrogenase (ubiquinone) Fe-S protein 8, 23kDa (†
10	26094	0.99	2e-08	4e-06	1 x 13 DDB1 and CUL4 associated factor 4 [Source:HGNC Symbol;
11	7205	0.94	1e-07	4e-06	2 x 16 thyroid hormone receptor interactor 6 [Source:HGNC Symbol
12	388581	0.92	2e-07	4e-06	1 x 15 family with sequence similarity 132, member A [Source:HGNC
13	116447	0.91	2e-07	4e-06	1 x 15 topoisomerase (DNA) I, mitochondrial [Source:HGNC Symbo
14	118460	0.91	3e-07	5e-06	1 x 13 exosome component 6 [Source:HGNC Symbol;Acc:19055]
15	10552	0.9	4e-07	5e-06	1 x 15 actin related protein 2/3 complex, subunit 1A, 41kDa [Source:
16	78999	0.89	4e-07	5e-06	1 x 14 leucine rich repeat and fibronectin type III domain containing
17	55630	0.89	5e-07	3e-05	1 x 16 solute carrier family 39 (zinc transporter), member 4 [Source:
18	5499	0.86	1e-06	3e-05	1 x 13 protein phosphatase 1, catalytic subunit, alpha isozyme [Sour
19	8772	0.85	1e-06	4e-05	1 x 14 Fas (TNFRSF6)-associated via death domain [Source:HGNC
20	26233	0.84	2e-06	5e-05	1 x 15 F-box and leucine-rich repeat protein 6 [Source:HGNC Syml

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	19.55	NULL	1 / 3	GSEA C2WBEER_METHYLATED_LCP_IN_SPERM_DN
2	16.76	NULL	1 / 6	GSEA C2REACTOME_CLASS_A1_RHODOPSIN_LIKE_RECEPTORS
3	16.76	NULL	1 / 6	GSEA C2REACTOME_GPCR_LIGAND_BINDING
4	16.7	NULL	2 / 21	BP feeding behavior
5	15.92	NULL	2 / 7	GSEA C2AFFAREL_RESPONSE_TO_THC_24HR_5_UP
6	15.33	NULL	1 / 7	GSEA C2REACTOME_PEPTIDE_LIGAND_BINDING_RECEPTORS
7	14.39	NULL	1 / 5	GSEA C2WBEER_METHYLATED_LCP_IN_FIBROBLAST_DN
8	14.2	NULL	1 / 8	GSEA C2SAMOLS_TARGETS_OF_KHSV_MIRNAS_UP
9	14.2	NULL	1 / 8	GSEA C2REACTOME_G_ALPHA_I_SIGNALLING_EVENTS
10	12.52	NULL	1 / 3	GSEA C2KEGG_OXIDATIVE_PHOSPHORYLATION
11	12.52	NULL	1 / 3	GSEA C2KEGG_PARKINSONS_DISEASE
12	12.51	NULL	1 / 10	GSEA C2WELCSH_BRCA1_TARGETS_1_DN
13	12.51	NULL	1 / 10	GSEA C2TAKAO_RESPONSE_TO_UVB_RADIATION_UP
14	12.3	NULL	2 / 11	GSEA C2SCIBETTA_KDMSB_TARGETS_DN
15	12.21	NULL	2 / 13	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_C
16	12.1	NULL	2 / 10	GSEA C2ZHU_CMV_24_HR_UP
17	12.1	NULL	2 / 10	GSEA C2ZHU_CMV_ALL_UP
18	11.85	NULL	1 / 11	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_BONE_DN
19	11.85	NULL	1 / 11	GSEA C2PARK_APL_PATHOGENESIS_DN
20	11.71	NULL	2 / 12	GSEA C2BHATTACHARYA_EMBRYONIC_STEM_CELL
21	10.77	NULL	1 / 13	GSEA C2KORKOLA_EMBRYONIC_CARCINOMA_VS_SEMINOMA_UP
22	10.7	NULL	2 / 14	GSEA C2KRASNOSELSKAYA_ILF3_TARGETS_DN
23	10.5	NULL	1 / 4	GSEA C2REACTOME_GLUCCOSE_REGULATION_OF_INSULIN_SECRETI
24	10.5	NULL	1 / 4	GSEA C2REACTOME_INTEGRATION_OF_ENERGY_METABOLISM
25	10.5	NULL	1 / 4	GSEA C2REACTOME_REGULATION_OF_INSULIN_SECRETION
26	10.33	NULL	1 / 14	GSEA C2FARMER_BREAST_CANCER_BASAL_VS_LUMINAL
27	10.33	NULL	1 / 14	GSEA C2LIEN_BREAST_CARCINOMA_METAPLASTIC_VS_DUCTAL_UP
28	10.26	NULL	2 / 18	BP smooth muscle contraction
29	9.93	NULL	1 / 15	MF neuropeptide hormone activity
30	9.93	NULL	1 / 15	GSEA C2NAGASHIMA_NRG1_SIGNALING_UP
31	9.93	NULL	1 / 15	GSEA C2FERNANDEZ_BOUND_BY_MYC
32	9.61	NULL	1 / 7	MMML C6CIEJ_MMML_13
33	9.57	NULL	1 / 16	GSEA C2DOANE_BREAST_CANCER_ESR1_DN
34	9.57	NULL	1 / 16	GSEA C2TAVOR_CEBPA_TARGETS_DN
35	9.57	NULL	1 / 16	GSEA C2FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_DN
36	9.57	NULL	1 / 16	GSEA C2BROWNE_HCMV_INFECTION_24HR_UP
37	9.46	NULL	2 / 10	GSEA C2KEGG_HUNTINGTONS_DISEASE
38	9.41	NULL	4 / 18	MF ribonucleoprotein complex binding
39	9.25	NULL	1 / 17	Disease BCHETNIA_EBM up
40	9.19	NULL	1 / 5	GSEA C2REACTOME_ELECTRON_TRANSPORT_CHAIN



GW_211

Local Summary

%DE = 0.72
 # metagenes = 34
 # genes = 433
 # genes in genesets = 424

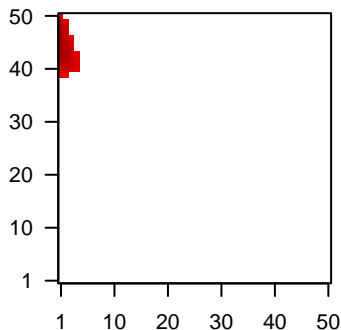
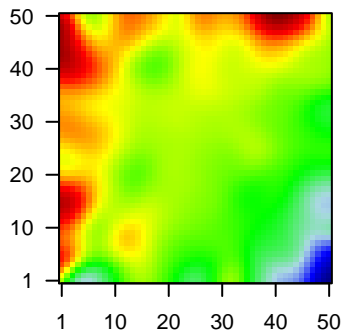
genes with $fdr < 0.1$ = 213 (179 + / 34 -)
 # genes with $fdr < 0.05$ = 201 (171 + / 30 -)
 # genes with $fdr < 0.01$ = 163 (147 + / 16 -)

$\langle r \rangle$ metagenes = 0.87
 $\langle r \rangle$ genes = 0.32

$\langle FC \rangle = 0.39$
 $\langle \text{shrinkage-t} \rangle = 13.66$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.51$

Profile

Spot



Local Genelist

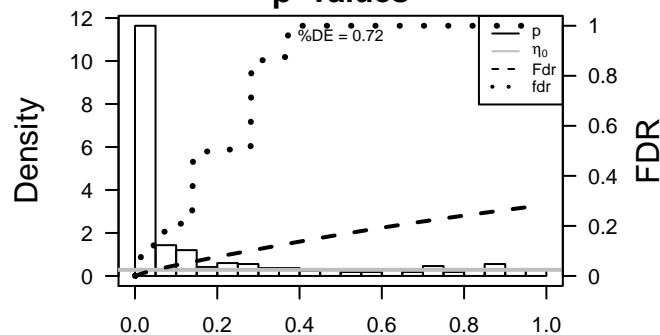
Rank	ID	log(FC)	fdr	p-value	Description
1	242	1.56	2e-16	8e-16	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syrn
2	760	1.91	2e-16	8e-16	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
3	1382	2.07	2e-16	8e-16	1 x 48 cellular retinoic acid binding protein 2 [Source:HGNC Symbol
4	9547	-1.56	2e-16	8e-16	1 x 46 chemokine (C-X-C motif) ligand 14 [Source:HGNC Symbol;f
5	1673	2.52	2e-16	8e-16	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
6	3489	2.56	2e-16	8e-16	1 x 44 insulin-like growth factor binding protein 6 [Source:HGNC Sy
7	3552	2.09	2e-16	8e-16	1 x 43 interleukin 1, alpha [Source:HGNC Symbol;Acc:5991]
8	56300	2.27	2e-16	8e-16	1 x 47 interleukin 36, gamma [Source:HGNC Symbol;Acc:15741]
9	26085	2.17	2e-16	8e-16	1 x 50 kallikrein-related peptidase 13 [Source:HGNC Symbol;Acc:6:
10	3851	-1.6	2e-16	8e-16	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]
11	286887	1.44	2e-16	8e-16	1 x 47 keratin 6C [Source:HGNC Symbol;Acc:20406]
12	388533	1.64	2e-16	8e-16	1 x 49 keratinocyte differentiation-associated protein [Source:HGNC
13	84648	2.13	2e-16	8e-16	1 x 48 late cornified envelope 3D [Source:HGNC Symbol;Acc:16615
14	643479	1.62	2e-16	8e-16	1 x 49
15	23682	1.9	2e-16	8e-16	1 x 46 RAB38, member RAS oncogene family [Source:HGNC Symb
16	6283	2.39	2e-16	8e-16	1 x 49 S100 calcium binding protein A12 [Source:HGNC Symbol;Ac
17	6278	2.11	2e-16	8e-16	1 x 49 S100 calcium binding protein A7 [Source:HGNC Symbol;Acc:
18	338324	2.16	2e-16	8e-16	1 x 48 S100 calcium binding protein A7A [Source:HGNC Symbol;Ac
19	374897	1.49	2e-16	8e-16	1 x 49 suprabasin [Source:HGNC Symbol;Acc:24950]
20	6317	1.51	2e-16	8e-16	1 x 49 serpin peptidase inhibitor, clade B (ovalbumin), member 3 [Sc

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	26.25	NULL	18 / 21	CC cornified envelope
2	25.35	NULL	31 / 76	BP epidermis development
3	24.06	NULL	130 / 572	Disease GUDJ_pсориазis up
4	22.33	NULL	20 / 42	BP keratinization
5	19.09	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
6	18	NULL	27 / 53	BP keratinocyte differentiation
7	15.27	NULL	83 / 135	H.Tiss WIRTH_Mucosa
8	12.69	NULL	5 / 16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
9	12.44	NULL	4 / 10	MF RAGE receptor binding
10	12.05	NULL	3 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
11	11.78	NULL	3 / 15	MF interleukin-1 receptor binding
12	10.78	NULL	7 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
13	10.17	NULL	1 / 5	GSEA C2BUSA_SAM68_TARGETS_UP
14	9.47	NULL	2 / 7	GSEA C2YE_METASTATIC_LIVER_CANCER
15	9.4	NULL	1 / 4	GSEA C2UDHU_LIVER_CANCER_METASTASIS_DN
16	9.23	NULL	5 / 16	GSEA C2MID_BREAST_CANCER_RELAPSE_IN_PLEURA_DN
17	9.2	NULL	7 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATE
18	8.9	NULL	4 / 15	GSEA C2ONDER_CDH1_TARGETS_2_DN
19	8.72	NULL	7 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
20	8.33	NULL	15 / 79	MF serine-type endopeptidase inhibitor activity
21	8.15	NULL	76 / 1182	CC extracellular region
22	8.02	NULL	4 / 16	GSEA C2SESTO_RESPONSE_TO_UV_C7
23	7.99	NULL	6 / 16	GSEA C2COLDREN_GEFITINIB_RESISTANCE_DN
24	7.69	NULL	3 / 8	GSEA C2MCLACHLAN_DENTAL_CARIES_UP
25	7.44	NULL	1 / 6	GSEA C2SEIKE_LUNG_CANCER_POOR_SURVIVAL
26	7.3	NULL	4 / 15	GSEA C2CHANG_IMMORTALIZED_BY_HPV31_DN
27	7.26	NULL	9 / 73	BP defense response to bacterium
28	7.24	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_DENA_UP
29	7.24	NULL	3 / 8	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_UP
30	7.22	NULL	4 / 15	GSEA C2LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
31	7.16	NULL	5 / 14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
32	7.06	NULL	4 / 25	BP response to zinc ion
33	6.92	NULL	2 / 10	BP lipoxygenase pathway
34	6.92	NULL	2 / 2	miRNA target-199a*
35	6.8	NULL	14 / 122	MF serine-type endopeptidase activity
36	6.8	NULL	11 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
37	6.77	NULL	3 / 10	GSEA C2NIKOLSKY_BREAST_CANCER_20Q12_Q13_AMPLICON
38	6.76	NULL	3 / 11	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_G_UP
39	6.75	NULL	10 / 19	BP peptide cross-linking
40	6.6	NULL	10 / 52	BP negative regulation of endopeptidase activity

p-values



GW_211

Local Summary

%DE = 0.73
 # metagenes = 23
 # genes = 379
 # genes in genesets = 374

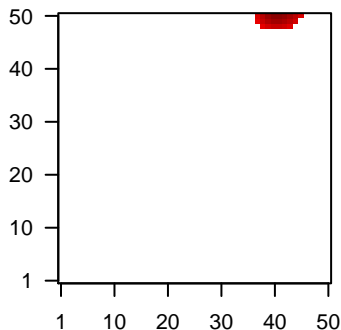
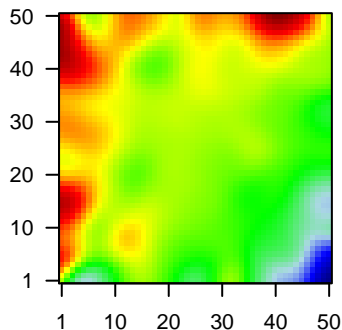
genes with $fdr < 0.1 = 191$ (191 + / 0 -)
 # genes with $fdr < 0.05 = 153$ (153 + / 0 -)
 # genes with $fdr < 0.01 = 112$ (112 + / 0 -)

$\langle r \rangle$ metagenes = 0.94
 $\langle r \rangle$ genes = 0.34

$\langle FC \rangle = 0.4$
 $\langle \text{shrinkage-t} \rangle = 13.86$
 $\langle p\text{-value} \rangle = 0.01$
 $\langle fdr \rangle = 0.59$

Profile

Spot



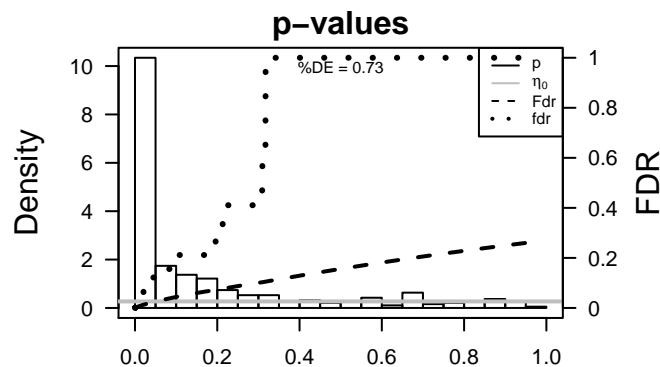
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	908	1.68	2e-16	8e-15	40 x 50 chaperonin containing TCP1, subunit 6A (zeta 1) [Source:HGNC Symbol;Acc:10253]
2	2631	1.52	2e-16	8e-15	39 x 50 glioblastoma amplified sequence [Source:HGNC Symbol;Acc:10253]
3	23480	1.52	2e-16	8e-15	39 x 50 Sec61 gamma subunit [Source:HGNC Symbol;Acc:18277]
4	643253	1.38	6e-15	7e-12	40 x 50
5	54517	1.32	7e-14	4e-10	41 x 50 pseudouridylylase synthase 7 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:10253]
6	55915	1.22	4e-12	6e-09	38 x 50 LanC lantibiotic synthetase component C-like 2 (bacterial) [Source:HGNC Symbol;Acc:10253]
7	51142	1.06	6e-11	1e-08	38 x 50 coiled-coil-helix-coiled-coil-helix domain containing 2 [Source:HGNC Symbol;Acc:10253]
8	8500	1.13	2e-10	2e-08	42 x 50 protein tyrosine phosphatase, receptor type, f polypeptide (P1) [Source:HGNC Symbol;Acc:10253]
9	6611	1.1	5e-10	2e-08	42 x 50 spermine synthase [Source:HGNC Symbol;Acc:11123]
10	5723	1.09	6e-10	1e-07	37 x 50 phosphoserine phosphatase [Source:HGNC Symbol;Acc:957]
11	83787	1.06	2e-09	1e-07	39 x 50 armadillo repeat containing 10 [Source:HGNC Symbol;Acc:21123]
12	54928	1.04	3e-09	2e-06	40 x 50 inositol monophosphatase domain containing 1 [Source:HGNC Symbol;Acc:10253]
13	84284	0.98	3e-08	2e-06	38 x 50 nucleoside-triphosphatase, cancer-related [Source:HGNC Symbol;Acc:10253]
14	10165	0.97	4e-08	3e-06	40 x 50 solute carrier family 25 (aspartate/glutamate carrier), member 1 [Source:HGNC Symbol;Acc:10253]
15	220042	0.95	8e-08	3e-06	42 x 50 chromosome 11 open reading frame 82 [Source:HGNC Symbol;Acc:10253]
16	55353	0.94	9e-08	5e-06	42 x 50 lysosomal protein transmembrane 4 beta [Source:HGNC Symbol;Acc:10253]
17	29028	0.92	2e-07	5e-06	44 x 50 ATPase family, AAA domain containing 2 [Source:HGNC Symbol;Acc:10253]
18	100130742	0.91	3e-07	5e-06	37 x 49 leucine rich repeat containing 69 [Source:HGNC Symbol;Acc:10253]
19	157769	0.91	3e-07	5e-06	40 x 50 family with sequence similarity 91, member A1 [Source:HGNC Symbol;Acc:10253]
20	5701	0.9	3e-07	5e-06	41 x 50 proteasome (prosome, macropain) 26S subunit, ATPase, 2 [Source:HGNC Symbol;Acc:10253]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	21.28	NULL	50 / 142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	21.28	NULL	50 / 142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	14.8	NULL	7 / 16	Cancer RHODES_UNDIFFERENTIATED_CANCER
4	12.88	NULL	8 / 13	GSEA C2ROONQUIST_IL6_DEPRIVATION_DN
5	12.75	NULL	6 / 15	GSEA C2SMID_BREAST_CANCER_LUMINAL_A_DN
6	12.04	NULL	10 / 16	GSEA C2FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL
7	11.14	NULL	6 / 15	Cancer GENTLES_modul6
8	11.08	NULL	7 / 15	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_DN
9	10.89	NULL	59 / 530	Cancer Lembcke_Normal vs Adenoma
10	10.83	NULL	7 / 15	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL QUIESCENT_UP
11	10.38	NULL	9 / 15	GSEA C2FINETTI_BREAST_CANCER_KINOME_RED
12	10.23	NULL	7 / 18	LymphomaAVE_c-myc BL UP
13	10.15	NULL	53 / 370	BP mitotic cell cycle
14	10.03	NULL	13 / 57	Glio developing astrocytes
15	10.02	NULL	5 / 14	GSEA C2XU_HGF_TARGETS_INDUCED_BY_AKT1_48HR_DN
16	9.76	NULL	4 / 14	GSEA C2MAYBURD_RESPONSE_TO_L663536_DN
17	9.76	NULL	6 / 15	GSEA C2REACTOME_FORMATION_OF_TUBULIN_FOLDING_INTERMED
18	9.74	NULL	5 / 10	CC zona pellucida receptor complex
19	9.56	NULL	6 / 16	Cancer WOLFER_overlap genes
20	9.25	NULL	9 / 36	BP 'de novo' posttranslational protein folding
21	9.19	NULL	38 / 534	Chr Chr 8
22	8.8	NULL	5 / 9	GSEA C2BIOCARTA_RANMS_PATHWAY
23	8.68	NULL	71 / 1233	TF KIM_MYC targets
24	8.66	NULL	6 / 14	MMML C6SCIEJ_MMML_4
25	8.64	NULL	39 / 743	Chr Chr 7
26	8.55	NULL	7 / 16	Cancer RHODES_UNDIFFERENTIATED_CANCER
27	8.54	NULL	30 / 232	BP mitosis
28	8.45	NULL	10 / 18	BP spindle organization
29	8.42	NULL	22 / 148	BP G1/S transition of mitotic cell cycle
30	8.38	NULL	7 / 16	GSEA C2KANG_DOXORUBICIN_RESISTANCE_UP
31	8.38	NULL	4 / 16	GSEA C2PUJANA_BREAST_CANCER_WITH_BRCA1_MUTATED_UP
32	8.25	NULL	3 / 13	GSEA C2BOYVAULT_LIVER_CANCER_SUBCLASS_G3_UP
33	8.24	NULL	48 / 572	Disease GUDJ_psooriasis up
34	7.98	NULL	3 / 15	GSEA C2TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_LOBULAR_UP
35	7.88	NULL	4 / 16	GSEA C2Y_AGING_PREMATURE_DN
36	7.51	NULL	5 / 15	GSEA C2Y_AGING_OLD_DN
37	7.46	NULL	2 / 19	BP ATP biosynthetic process
38	7.43	NULL	4 / 11	GSEA C2REACTOME_PURINE_RIBONUCLEOSIDE_MONOPHOSPHATE
39	7.37	NULL	6 / 16	GSEA C2EGUCHI_CELL_CYCLE_RB1_TARGETS
40	7.23	NULL	4 / 10	GSEA C2MONTERO_THYROID_CANCER_POOR_SURVIVAL_UP



GW_211

Local Summary

%DE = 0.94
 # metagenes = 22
 # genes = 378
 # genes in genesets = 376

genes with $fdr < 0.1 = 340$ (10 + / 330 -)
 # genes with $fdr < 0.05 = 317$ (8 + / 309 -)
 # genes with $fdr < 0.01 = 258$ (4 + / 254 -)

<r> metagenes = 0.95

<r> genes = 0.48

<FC> = -0.54

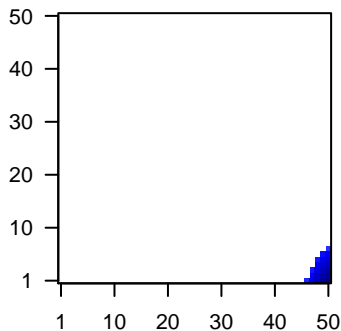
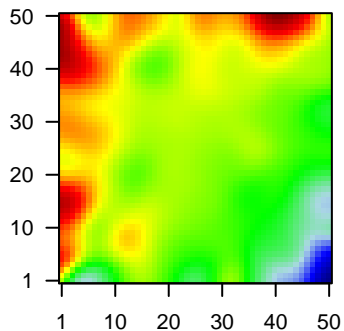
<shrinkage-t> = -18.93

<p-value> = 0

<fdr> = 0.33

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	6363	-1.51	2e-16	1e-15	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc:6363]
2	894	-1.46	2e-16	1e-15	50 x 4 cyclin D2 [Source:HGNC Symbol;Acc:1583]
3	10365	-1.46	2e-16	1e-15	50 x 3 Kruppel-like factor 2 [Source:HGNC Symbol;Acc:6347]
4	5996	-1.53	2e-16	1e-15	50 x 1 regulator of G-protein signaling 1 [Source:HGNC Symbol;Acc:5996]
5	713	-1.39	4e-15	6e-13	50 x 1 complement component 1, q subcomponent, B chain [Source:HGNC Symbol;Acc:713]
6	3109	-1.34	3e-14	1e-12	50 x 1 major histocompatibility complex, class II, DM beta [Source:HGNC Symbol;Acc:3109]
7	10537	-1.32	8e-14	6e-11	50 x 1 ubiquitin D [Source:HGNC Symbol;Acc:18795]
8	25849	-1.23	3e-12	7e-11	50 x 2 prostate androgen-regulated mucin-like protein 1 [Source:HGNC Symbol;Acc:25849]
9	6451	-1.21	7e-12	7e-11	50 x 5 SH3 domain binding glutamic acid-rich protein like [Source:HGNC Symbol;Acc:6451]
10	3113	-1.2	9e-12	2e-10	50 x 1 major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:3113]
11	3122	-1.11	2e-11	9e-10	50 x 1 major histocompatibility complex, class II, DR alpha [Source:HGNC Symbol;Acc:3122]
12	3059	-1.15	7e-11	9e-10	50 x 1 hematopoietic cell-specific Lyn substrate 1 [Source:HGNC Symbol;Acc:3059]
13	55303	-1.13	1e-10	9e-10	50 x 1 GTPase, IMAP family member 4 [Source:HGNC Symbol;Acc:55303]
14	6925	-1.13	2e-10	9e-10	50 x 6 transcription factor 4 [Source:HGNC Symbol;Acc:11634]
15	919	-1.13	2e-10	1e-09	50 x 1 CD247 molecule [Source:HGNC Symbol;Acc:1677]
16	51176	-1.11	3e-10	1e-09	50 x 5 lymphoid enhancer-binding factor 1 [Source:HGNC Symbol;Acc:51176]
17	962	-1.11	3e-10	1e-09	50 x 1 CD48 molecule [Source:HGNC Symbol;Acc:1683]
18	5920	-1.11	3e-10	4e-09	48 x 1 retinoic acid receptor responder (tazarotene induced) 3 [Source:HGNC Symbol;Acc:5920]
19	5730	-1.09	6e-10	4e-09	50 x 1 prostaglandin D2 synthase 21kDa (brain) [Source:HGNC Symbol;Acc:5730]
20	30061	-1.08	8e-10	4e-09	50 x 5 solute carrier family 40 (iron-regulated transporter), member 40 [Source:HGNC Symbol;Acc:30061]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-28.31	NULL	12 / 15	CC MHC class II protein complex
2	-22.28	NULL	91 / 417	H.Tiss WIRTH_Immune system
3	-20.63	NULL	108 / 553	Cancer Lembcke_Colonc Inflammation
4	-18.92	NULL	59 / 312	BP immune response
5	-17.98	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
6	-17.32	NULL	15 / 47	BP antigen processing and presentation
7	-16.28	NULL	7 / 12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN
8	-16.04	NULL	6 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
9	-14.92	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
10	-14.53	NULL	15 / 60	BP T cell costimulation
11	-14.21	NULL	7 / 15	GSEA C2FINAK_BREAST_CANCER_SDDP_SIGNATURE
12	-13.82	NULL	2 / 4	MMML C2CIEJ_MMML_2
13	-13.74	NULL	5 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
14	-13.62	NULL	7 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HGA
15	-13.54	NULL	7 / 21	CC clathrin-coated endocytic vesicle membrane
16	-13.07	NULL	2 / 4	GSEA C2REACTOME_CLASSICAL_ANTIBODY_MEDIATED_COMPLEMENTATION
17	-12.86	NULL	7 / 23	CC integral to luminal side of endoplasmic reticulum membrane
18	-12.85	NULL	4 / 7	Glio Donson-cytotoxic effectors-associated with LTS in HGA
19	-12.57	NULL	7 / 16	LymphomaRIGHT_ABC UP
20	-12.54	NULL	5 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
21	-12.45	NULL	18 / 74	BP regulation of immune response
22	-12.25	NULL	29 / 162	CC external side of plasma membrane
23	-12.21	NULL	5 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
24	-12.01	NULL	5 / 13	GSEA C2BIOCARTA_IL17_PATHWAY
25	-12	NULL	9 / 35	CC trans-Golgi network membrane
26	-11.92	NULL	48 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
27	-11.92	NULL	48 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
28	-11.92	NULL	48 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
29	-11.92	NULL	48 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
30	-11.76	NULL	4 / 16	GSEA C2KORKOLA_TERATOMA_UP
31	-11.75	NULL	8 / 16	GSEA C2SU_THYMUS
32	-11.74	NULL	8 / 28	CC transport vesicle membrane
33	-11.65	NULL	6 / 13	Cancer GENTLES_modul18
34	-11.63	NULL	4 / 9	GSEA C2MILIC_FAMILIAL_ADENOMATOUS_POLYPOSIIS_DN
35	-11.58	NULL	16 / 84	BP T cell receptor signaling pathway
36	-11.26	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
37	-11.01	NULL	5 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_NONREJECTED
38	-10.86	NULL	14 / 87	BP antigen processing and presentation of exogenous peptide antigen
39	-10.66	NULL	11 / 60	BP interferon-gamma-mediated signaling pathway
40	-10.62	NULL	7 / 32	CC ER to Golgi transport vesicle membrane

p-values

