

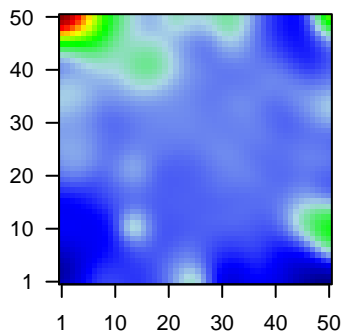
GW_151

Global Summary

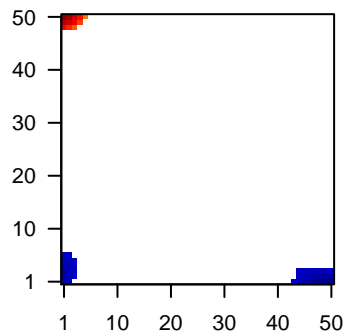
%DE = 0.14
 # genes with fdr < 0.2 = 1719 (992 + / 727 -)
 # genes with fdr < 0.1 = 1362 (831 + / 531 -)
 # genes with fdr < 0.05 = 1223 (762 + / 461 -)
 # genes with fdr < 0.01 = 859 (581 + / 278 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.09
 <fdr> = 0.86

Profile



Regulated Spots



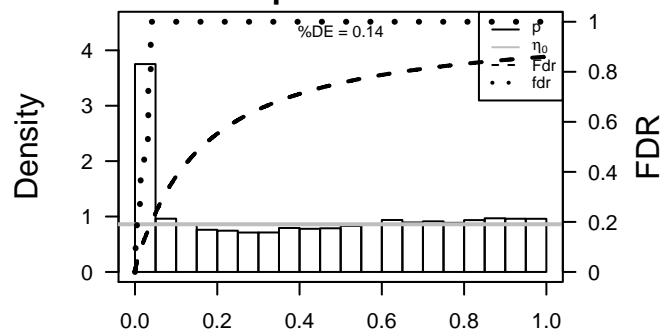
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	1.09	2e-16	2e-14	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	79852	1.36	2e-16	2e-14	3 x 50 epoxide hydrolase 3 [Source:HGNC Symbol;Acc:23760]
3	55	1.14	2e-16	2e-14	4 x 50 acid phosphatase, prostate [Source:HGNC Symbol;Acc:125]
4	58	2.01	2e-16	2e-14	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
5	131	2.06	2e-16	2e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
6	57016	1.76	2e-16	2e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
7	441282	1.74	2e-16	2e-14	1 x 49 aldo-keto reductase family 1, member B15 [Source:HGNC S
8	1646	1.45	2e-16	2e-14	13 x 50 aldo-keto reductase family 1, member C2 [Source:HGNC Syr
9	8644	2.24	2e-16	2e-14	1 x 50 aldo-keto reductase family 1, member C3 [Source:HGNC Syr
10	1109	2.47	2e-16	2e-14	13 x 50 aldo-keto reductase family 1, member C4 [Source:HGNC Syr
11	216	2.02	2e-16	2e-14	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC
12	218	2.72	2e-16	2e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
13	55107	-1.24	2e-16	2e-14	1 x 5 anoctamin 1, calcium activated chloride channel [Source:HG
14	360	1.09	2e-16	2e-14	1 x 50 aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:63
15	374569	1.25	2e-16	2e-14	4 x 50 asparaginase homolog (S. cerevisiae) [Source:HGNC Symbo
16	344905	1.47	2e-16	2e-14	50 x 50 ATPase type 13A5 [Source:HGNC Symbol;Acc:31789]
17	10409	-1.12	2e-16	2e-14	1 x 2 brain abundant, membrane attached signal protein 1 [Source:
18	8424	1.19	2e-16	2e-14	3 x 48 butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma
19	652	1.11	2e-16	2e-14	9 x 1 bone morphogenetic protein 4 [Source:HGNC Symbol;Acc:1C
20	10974	1.49	2e-16	2e-14	5 x 50 adipogenesis regulatory factor [Source:HGNC Symbol;Acc:24

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	31.92	NULL	135	H.Tiss WIRTH_Mucosa
2	11.6	NULL	20	MF glutathione transferase activity
3	11.57	NULL	16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
4	11.02	NULL	8	GSEA C2LIU_CDX2_TARGETS_DN
5	10.52	NULL	7	GSEA C2MCCOLLUM_GELDANAMYCIN_RESISTANCE_DN
6	10.16	NULL	12	BP cellular aldehyde metabolic process
7	9.94	NULL	15	GSEA C2REACTOME_GlutATHIONE_CONJUGATION
8	9.83	NULL	25	BP glutathione derivative biosynthetic process
9	9.38	NULL	21	CC cornified envelope
10	9.27	NULL	119	BP xenobiotic metabolic process
11	9.18	NULL	15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
12	9.14	NULL	34	BP glutathione metabolic process
13	9.05	NULL	53	BP keratinocyte differentiation
14	8.89	NULL	16	GSEA C2CROMER_TUMORIGENESIS_DN
15	8.84	NULL	19	BP peptide cross-linking
16	8.69	NULL	13	GSEA C2KEGG_METABOLISM_OF_XENOBIOTICS_BY_Cytochrome
17	8.61	NULL	15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
18	8.42	NULL	572	Disease GUDJ_poriasis up
19	8.3	NULL	11	GSEA C2KEGG_DRUG_METABOLISM_Cytochrome_P450
20	7.67	NULL	76	BP epidermis development
<i>Underexpressed</i>				
1	-9.72	NULL	417	H.Tiss WIRTH_Immune system
2	-9.38	NULL	553	Cancer Lembecke_Colonic Inflammation
3	-9.08	NULL	15	CC MHC class II protein complex
4	-7.9	NULL	312	BP immune response
5	-7.23	NULL	4	MMML C2CIE_MMML_23
6	-7.06	NULL	60	BP interferon-gamma-mediated signaling pathway
7	-7.05	NULL	47	BP antigen processing and presentation
8	-6.89	NULL	265	Glio willscher_GBM_Verhaak-CL_expression_B_up
9	-6.89	NULL	265	Glio willscher_GBM_Verhaak-MES_expression_B_up
10	-6.89	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
11	-6.89	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
12	-6.87	NULL	204	BP cytokine-mediated signaling pathway
13	-6.67	NULL	23	CC integral to luminal side of endoplasmic reticulum membrane
14	-6.67	NULL	316	Cancer SPANG_BCL6-index2
15	-6.16	NULL	14	CC endocytic vesicle lumen
16	-6.16	NULL	743	Chr Chr 7
17	-5.88	NULL	15	GSEA C2CROMER_TUMORIGENESIS_UP
18	-5.78	NULL	21	CC clathrin-coated endocytic vesicle membrane
19	-5.73	NULL	426	Lymphoma SPANG_CD40 6hrs DN
20	-5.6	NULL	534	Chr Chr 8

p-values



GW_151

Local Summary

%DE = 0.95
 # metagenes = 12
 # genes = 196
 # genes in genesets = 192

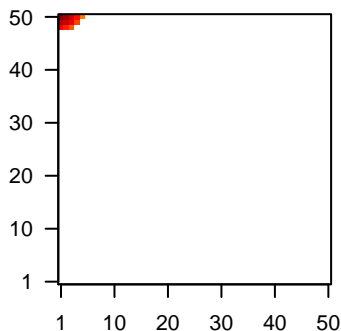
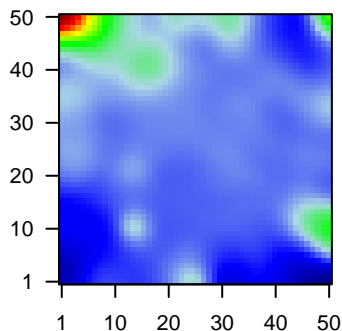
 # genes with $fdr < 0.1 = 174$ (166 + / 8 -)
 # genes with $fdr < 0.05 = 174$ (166 + / 8 -)
 # genes with $fdr < 0.01 = 169$ (161 + / 8 -)

<r> metagenes = 0.98
 <r> genes = 0.47

 <FC> = 0.89
 <shrinkage-t> = 31.34
 <p-value> = 0
 <fdr> = 0.11

Profile

Spot



Local Genelist

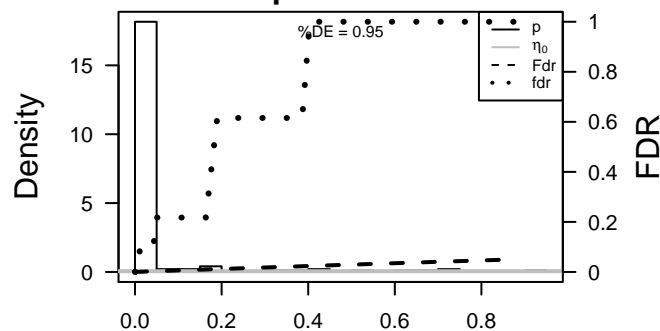
Rank	ID	log(FC)	fdr	p-value	Description
1	144568	1.09	2e-16	3e-17	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	79852	1.36	2e-16	3e-17	3 x 50 epoxide hydrolase 3 [Source:HGNC Symbol;Acc:23760]
3	55	1.14	2e-16	3e-17	4 x 50 acid phosphatase, prostate [Source:HGNC Symbol;Acc:125]
4	131	2.06	2e-16	3e-17	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
5	57016	1.76	2e-16	3e-17	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
6	441282	1.74	2e-16	3e-17	1 x 49 aldo-keto reductase family 1, member B15 [Source:HGNC S
7	8644	2.24	2e-16	3e-17	1 x 50 aldo-keto reductase family 1, member C3 [Source:HGNC Sy
8	218	2.72	2e-16	3e-17	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
9	360	1.09	2e-16	3e-17	1 x 50 aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:63
10	374569	1.25	2e-16	3e-17	4 x 50 asparaginase homolog (S. cerevisiae) [Source:HGNC Symbo
11	8424	1.19	2e-16	3e-17	3 x 48 butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma
12	10974	1.49	2e-16	3e-17	5 x 50 adipogenesis regulatory factor [Source:HGNC Symbol;Acc:2
13	387695	1.26	2e-16	3e-17	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Symt
14	375791	1.7	2e-16	3e-17	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Symt
15	84290	1.16	2e-16	3e-17	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
16	4680	1.39	2e-16	3e-17	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (i
17	22802	1.69	2e-16	3e-17	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
18	9022	1.47	2e-16	3e-17	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2l
19	84518	1.34	2e-16	3e-17	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
20	1382	1.35	2e-16	3e-17	1 x 48 cellular retinoic acid binding protein 2 [Source:HGNC Symbol

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	56.26	NULL	72 / 135	H.Tiss WIRTH_Mucosa
2	20.32	NULL	14 / 21	CC cornified envelope
3	20.01	NULL	76 / 572	Disease GUDJ_pсориазis up
4	19.62	NULL	19 / 53	BP keratinocyte differentiation
5	19.14	NULL	6 / 13	BP negative regulation of peptidase activity
6	18.81	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
7	18.08	NULL	8 / 19	BP peptide cross-linking
8	17	NULL	6 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
9	15.89	NULL	19 / 76	BP epidermis development
10	14.97	NULL	16 / 42	BP keratinization
11	14.91	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
12	13.78	NULL	6 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
13	13.62	NULL	3 / 12	BP cellular aldehyde metabolic process
14	11.88	NULL	12 / 122	MF serine-type endopeptidase activity
15	11.88	NULL	4 / 15	MF retinol dehydrogenase activity
16	11.84	NULL	4 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
17	11.32	NULL	7 / 38	BP epithelial cell differentiation
18	11.1	NULL	3 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LUNG_UP
19	11.04	NULL	5 / 10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
20	10.6	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
21	10.48	NULL	5 / 16	GSEA C2ZONDER_CDH1_TARGETS_3_DN
22	10.1	NULL	4 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
23	10.05	NULL	11 / 79	MF serine-type endopeptidase inhibitor activity
24	9.99	NULL	49 / 1182	CC extracellular region
25	9.77	NULL	5 / 21	CC desmosome
26	9.75	NULL	5 / 10	MF RAGE receptor binding
27	9.31	NULL	4 / 39	BP retinoid metabolic process
28	9.09	NULL	3 / 14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
29	9.01	NULL	5 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
30	9	NULL	9 / 52	BP negative regulation of endopeptidase activity
31	8.59	NULL	2 / 12	MF retinol binding
32	8.5	NULL	4 / 13	H.Tiss WIRTH_Tonsil
33	8.39	NULL	6 / 29	BP regulation of proteolysis
34	8.25	NULL	2 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
35	8.23	NULL	2 / 14	GSEA C2KEGG_PHENYLALANINE_METABOLISM
36	8.18	NULL	2 / 13	BP retinoic acid metabolic process
37	8.09	NULL	2 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
38	8.07	NULL	1 / 9	GSEA C2NIKOLSKY_BREAST_CANCER_17P11_AMPLICON
39	7.78	NULL	1 / 6	GSEA C2SAUSSMANN_MLL_AF4_FUSION_TARGETS_B_DN
40	7.74	NULL	3 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP

p-values



GW_151

Local Summary

%DE = 0.84
 # metagenes = 16
 # genes = 225
 # genes in genesets = 223

genes with $fdr < 0.1 = 145$ (16 + / 129 -)
 # genes with $fdr < 0.05 = 135$ (15 + / 120 -)
 # genes with $fdr < 0.01 = 107$ (11 + / 96 -)

$\langle r \rangle$ metagenes = 0.96

$\langle r \rangle$ genes = 0.36

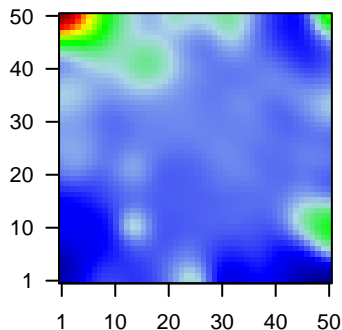
$\langle FC \rangle = -0.3$

$\langle \text{shrinkage-t} \rangle = -10.52$

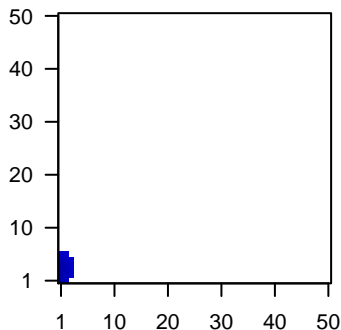
$\langle p\text{-value} \rangle = 0$

$\langle fdr \rangle = 0.45$

Profile



Spot



Local Genelist

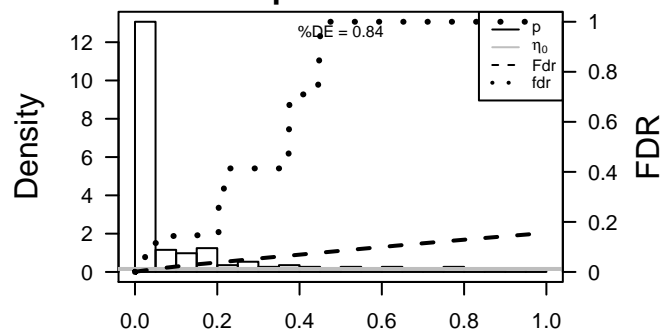
Rank	ID	log(FC)	fdr p-value	Description Metagene
1	55107	-1.24	2e-16 1e-15 1 x 5	anoctamin 1, calcium activated chloride channel [Source:HGNC]
2	10409	-1.12	2e-16 1e-15 1 x 2	brain abundant, membrane attached signal protein 1 [Source:HGNC]
3	8870	1.3	2e-16 1e-15 1 x 3	immediate early response 3 [Source:HGNC Symbol;Acc:5392]
4	3486	-1.26	2e-16 1e-15 1 x 6	insulin-like growth factor binding protein 3 [Source:HGNC Symbol;Acc:3604]
5	4502	-1.29	2e-16 1e-15 1 x 3	metallothionein 2A [Source:HGNC Symbol;Acc:7406]
6	5054	-1.21	2e-16 1e-15 1 x 2	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1) 1 [Source:HGNC Symbol;Acc:11373]
7	6781	-1.19	2e-16 1e-15 1 x 3	stanniocalcin 1 [Source:HGNC Symbol;Acc:11373]
8	4319	-1.04	2e-15 7e-14 1 x 3	matrix metallopeptidase 10 (stromelysin 2) [Source:HGNC Symbol;Acc:3604]
9	1051	-0.94	4e-15 7e-13 1 x 4	CCAAT/enhancer binding protein (C/EBP), beta [Source:HGNC Symbol;Acc:3604]
10	4312	-0.99	3e-14 7e-13 1 x 1	matrix metallopeptidase 1 (interstitial collagenase) [Source:HGNC Symbol;Acc:3604]
11	7078	-0.99	4e-14 1e-12 2 x 1	TIMP metallopeptidase inhibitor 3 [Source:HGNC Symbol;Acc:3604]
12	2201	0.98	8e-14 6e-12 1 x 5	fibrillin 2 [Source:HGNC Symbol;Acc:3604]
13	7045	-0.87	4e-13 6e-12 1 x 2	transforming growth factor, beta-induced, 68kDa [Source:HGNC Symbol;Acc:3604]
14	768	-0.94	5e-13 6e-12 1 x 6	carbonic anhydrase IX [Source:HGNC Symbol;Acc:1383]
15	4314	-0.94	6e-13 1e-11 1 x 1	matrix metallopeptidase 3 (stromelysin 1, progelatinase) [Source:HGNC Symbol;Acc:3604]
16	4060	0.94	8e-13 1e-10 2 x 1	lumican [Source:HGNC Symbol;Acc:6724]
17	2131	-0.9	5e-12 1e-10 1 x 6	exostosin glycosyltransferase 1 [Source:HGNC Symbol;Acc:3604]
18	3918	-0.89	9e-12 1e-10 1 x 4	laminin, gamma 2 [Source:HGNC Symbol;Acc:6493]
19	401138	-0.89	1e-11 6e-10 1 x 5	amelotin [Source:HGNC Symbol;Acc:33188]
20	23516	-0.87	3e-11 1e-09 1 x 4	solute carrier family 39 (zinc transporter), member 14 [Source:HGNC Symbol;Acc:3604]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-26.42	NULL	10 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
2	-17.63	NULL	2 / 5	GSEA C2VERNELL_RETINOBLASTOMA_PATHWAY_DN
3	-17.6	NULL	1 / 2	miRNA target-101b
4	-15.83	NULL	2 / 7	GSEA C2FREDERICK_PRKCI_TARGETS
5	-15.29	NULL	10 / 35	Glio Colman_survival_associated
6	-14.96	NULL	49 / 242	BP extracellular matrix organization
7	-14.8	NULL	4 / 13	GSEA C2REACTOME_REGULATION_OF_INSULIN_LIKE_GROWTH_FACTOR_SIGNALING_UP
8	-14.05	NULL	2 / 7	GSEA C2DASU_IL6_SIGNALING_DN
9	-13.61	NULL	2 / 11	BP negative regulation of smooth muscle cell migration
10	-13.47	NULL	4 / 10	GSEA C2YENGAR_RESPONSE_TO_ADIPOCYTE_FACTORS
11	-13.33	NULL	1 / 2	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_14
12	-13.16	NULL	4 / 12	BP hemidesmosome assembly
13	-13.11	NULL	5 / 11	GSEA C2BIOCARTA_PLATELETAPP_PATHWAY
14	-12.69	NULL	5 / 11	Glio Phillips MES up vs Prolif & PN
15	-12.62	NULL	4 / 16	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C1
16	-12.46	NULL	1 / 2	miRNA target-16-1
17	-12.38	NULL	4 / 13	GSEA C2CHIN_BREAST_CANCER_COPY_NUMBER_UP
18	-12.24	NULL	3 / 15	GSEA C2FRIDMAN_IMMORTALIZATION_DN
19	-11.98	NULL	3 / 8	GSEA C2SASAKI_TARGETS_OF_TP73_AND_TP63
20	-11.74	NULL	1 / 4	GSEA C2DACOSTA_LOW_DOSE_UV_RESPONSE_VIA_ERCC3_XPCS_DN
21	-11.45	NULL	2 / 15	GSEA C2SEMENZA_HIF1_TARGETS
22	-11.43	NULL	3 / 9	GSEA C2WEINMANN_ADAPTATION_TO_HYPOXIA_DN
23	-11.23	NULL	5 / 16	GSEA C2LU_TUMOR_VASCULATURE_UP
24	-11.04	NULL	2 / 16	GSEA C2ELVIDGE_HIF1A_AND_HIF2A_TARGETS_DN
25	-11.03	NULL	4 / 16	GSEA C2DORN_ADENOVIRUS_INFECTION_32HR_DN
26	-11.03	NULL	4 / 16	GSEA C2DORN_ADENOVIRUS_INFECTION_48HR_DN
27	-11.01	NULL	5 / 16	MF fibronectin binding
28	-10.96	NULL	3 / 10	BP cellular response to zinc ion
29	-10.94	NULL	15 / 83	CC basement membrane
30	-10.83	NULL	2 / 10	BP mammary gland epithelial cell proliferation
31	-10.45	NULL	5 / 16	GSEA C2BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_DN
32	-10.37	NULL	2 / 4	miRNA target-195
33	-10.31	NULL	4 / 16	GSEA C2KEGG_BLADDER_CANCER
34	-10.25	NULL	5 / 13	BP response to vitamin D
35	-10.18	NULL	3 / 16	GSEA C2LU_TUMOR_ANGIOGENESIS_UP
36	-10.15	NULL	39 / 250	LymphomaL1ENZ_Stromal signature 1
37	-10.12	NULL	3 / 16	GSEA C2ABRAHAM_ALPC_VS_MULTIPLE_MYELOMA_UP
38	-10.08	NULL	2 / 7	MMML C2SCIEJ_MMML_13
39	-9.95	NULL	45 / 403	BP cell adhesion
40	-9.9	NULL	6 / 19	MF L-ascorbic acid binding

p-values



GW_151

Local Summary

%DE = 0.82
 # metagenes = 22
 # genes = 334
 # genes in genesets = 331
 # genes with $fdr < 0.1$ = 218 (11 + / 207 -)
 # genes with $fdr < 0.05$ = 212 (11 + / 201 -)
 # genes with $fdr < 0.01$ = 131 (4 + / 127 -)

<r> metagenes = 0.97

<r> genes = 0.55

<FC> = -0.31

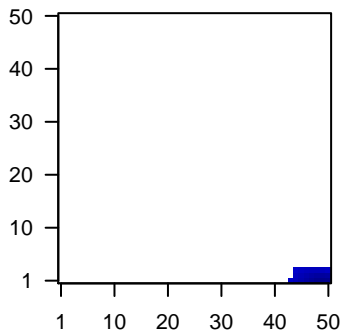
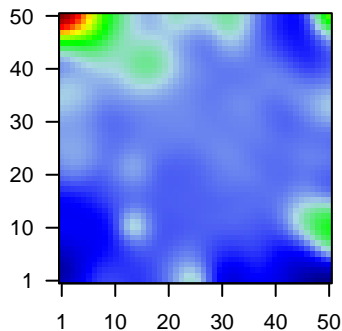
<shrinkage-t> = -10.93

<p-value> = 0

<fdr> = 0.47

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	3120	-1.18	2e-16	5e-15	47 x 1 major histocompatibility complex, class II, DQ beta 2 [Source:...
2	3123	-1.27	2e-16	5e-15	45 x 1 major histocompatibility complex, class II, DR beta 1 [Source:...
3	3128	-1.32	2e-16	5e-15	50 x 1 major histocompatibility complex, class II, DR beta 6 (pseudo...
4	10628	-0.98	2e-14	3e-12	48 x 1 thioredoxin interacting protein [Source:HGNC Symbol;Acc:16...
5	5880	-0.98	6e-14	2e-11	50 x 1 ras-related C3 botulinum toxin substrate 2 (rho family, small (...
6	5730	0.95	4e-13	2e-11	50 x 1 prostaglandin D2 synthase 21kDa (brain) [Source:HGNC Syn...
7	10537	-0.94	7e-13	4e-10	50 x 1 ubiquitin D [Source:HGNC Symbol;Acc:18795]
8	51755	-0.9	8e-12	2e-09	49 x 1 cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:242...
9	9516	-0.86	5e-11	5e-09	45 x 1 lipopolysaccharide-induced TNF factor [Source:HGNC Symb...
10	169044	-0.84	2e-10	5e-09	45 x 1 collagen, type XXII, alpha 1 [Source:HGNC Symbol;Acc:2298...
11	57172	-0.83	2e-10	5e-09	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG...
12	6364	0.82	3e-10	1e-08	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc...
13	3127	-0.81	6e-10	1e-08	43 x 1 major histocompatibility complex, class II, DR beta 5 [Source:...
14	713	-0.8	8e-10	1e-08	50 x 1 complement component 1, q subcomponent, B chain [Source...
15	11040	-0.8	1e-09	2e-08	49 x 1 pim-2 oncogene [Source:HGNC Symbol;Acc:8987]
16	3113	-0.79	2e-09	2e-08	50 x 1 major histocompatibility complex, class II, DP alpha 1 [Source...
17	330	-0.79	2e-09	7e-08	47 x 1 baculoviral IAP repeat containing 3 [Source:HGNC Symbol;A...
18	9466	-0.77	3e-09	7e-08	45 x 1 interleukin 27 receptor, alpha [Source:HGNC Symbol;Acc:172...
19	3575	-0.77	4e-09	3e-07	50 x 2 interleukin 7 receptor [Source:HGNC Symbol;Acc:6024]
20	3108	-0.74	1e-08	3e-07	50 x 1 major histocompatibility complex, class II, DM alpha [Source:...

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-43.55	NULL	14 / 15	CC MHC class II protein complex
2	-28.73	NULL	105 / 417	H.Tiss WIRTH_Immune system
3	-26.12	NULL	9 / 21	CC clathrin-coated endocytic vesicle membrane
4	-25.8	NULL	3 / 3	MMML C6SCIEJ_MMML 7
5	-25.65	NULL	16 / 47	BP antigen processing and presentation
6	-24.87	NULL	9 / 23	CC integral to luminal side of endoplasmic reticulum membrane
7	-22.37	NULL	9 / 28	CC transport vesicle membrane
8	-21.19	NULL	59 / 312	BP immune response
9	-20.81	NULL	9 / 32	CC ER to Golgi transport vesicle membrane
10	-20.69	NULL	20 / 60	BP T cell costimulation
11	-20.25	NULL	100 / 553	Cancer Lembecke_Colonin Inflammation
12	-19.82	NULL	9 / 35	CC trans-Golgi network membrane
13	-17.97	NULL	20 / 84	BP T cell receptor signaling pathway
14	-17.73	NULL	15 / 87	BP antigen processing and presentation of exogenous peptide antigen
15	-17.64	NULL	8 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
16	-17.05	NULL	9 / 46	CC endocytic vesicle membrane
17	-16.31	NULL	8 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
18	-16.08	NULL	13 / 60	BP interferon-gamma-mediated signaling pathway
19	-15.6	NULL	9 / 52	Chr HSCR6_MHC_QBL
20	-14.74	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
21	-14.74	NULL	8 / 14	GSEA C2BIOCARTA_NO2IL12_PATHWAY
22	-14.61	NULL	10 / 13	Cancer GENTLES_modul18
23	-14.48	NULL	7 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
24	-13.78	NULL	43 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
25	-13.78	NULL	43 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
26	-13.78	NULL	43 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
27	-13.78	NULL	43 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
28	-13.72	NULL	5 / 12	BP immunoglobulin mediated immune response
29	-13.07	NULL	8 / 28	LymphomaAAVE_Immune response 1
30	-12.98	NULL	7 / 13	GSEA C2BIOCARTA_IL17_PATHWAY
31	-12.55	NULL	23 / 204	BP cytokine-mediated signaling pathway
32	-12.52	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
33	-12.5	NULL	6 / 13	MMML C6SCIEJ_MMML 6
34	-12.12	NULL	8 / 16	GSEA C2SU_THYMUS
35	-12.01	NULL	29 / 162	CC external side of plasma membrane
36	-11.96	NULL	29 / 204	BP cell surface receptor signaling pathway
37	-11.96	NULL	18 / 74	BP regulation of immune response
38	-11.9	NULL	2 / 5	GSEA C2WEST_ADRENOCORTICAL_CARCINOMA_VS_ADENOMA_DN
39	-11.33	NULL	2 / 4	GSEA C2REACTOME_CLASSICAL_ANTIBODY_MEDIATED_COMPLEX...
40	-11.06	NULL	5 / 12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN

p-values

