

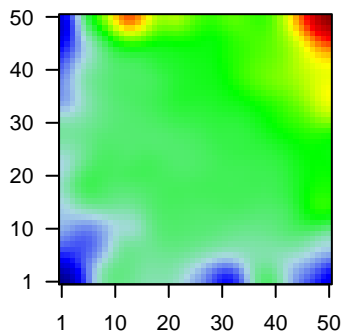
GW_125

Global Summary

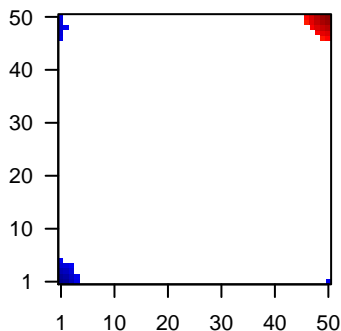
%DE = 0.15
 # genes with $fdr < 0.2$ = 1812 (974 + / 838 -)
 # genes with $fdr < 0.1$ = 1530 (818 + / 712 -)
 # genes with $fdr < 0.05$ = 1193 (645 + / 548 -)
 # genes with $fdr < 0.01$ = 865 (468 + / 397 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.1
 <fdr> = 0.85

Profile



Regulated Spots



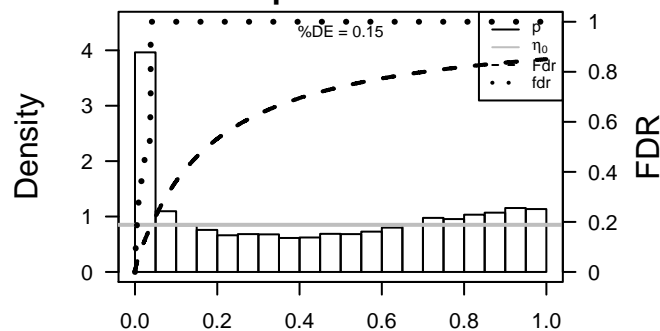
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	8745	1.79	2e-16	3e-14	50 x 50 ADAM metallopeptidase domain 23 [Source:HGNC Symbol;A
2	131	3.04	2e-16	3e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	57016	3.19	2e-16	3e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
4	441282	3.05	2e-16	3e-14	1 x 49 aldo-keto reductase family 1, member B15 [Source:HGNC S
5	8644	3.18	2e-16	3e-14	1 x 50 aldo-keto reductase family 1, member C3 [Source:HGNC Syr
6	1109	3.27	2e-16	3e-14	13 x 50 aldo-keto reductase family 1, member C4 [Source:HGNC Syr
7	214	1.76	2e-16	3e-14	50 x 50 activated leukocyte cell adhesion molecule [Source:HGNC S
8	216	2.35	2e-16	3e-14	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC
9	218	2.31	2e-16	3e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
10	84002	1.88	2e-16	3e-14	13 x 50 UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransf
11	25805	1.76	2e-16	3e-14	8 x 1 BMP and activin membrane-bound inhibitor [Source:HGNC S
12	84707	1.77	2e-16	3e-14	50 x 48 brain expressed X-linked 2 [Source:HGNC Symbol;Acc:3093
13	633	-1.71	2e-16	3e-14	3 x 1 biglycan [Source:HGNC Symbol;Acc:1044]
14	684	-1.77	2e-16	3e-14	32 x 1 bone marrow stromal cell antigen 2 [Source:HGNC Symbol;A
15	399948	1.91	2e-16	3e-14	50 x 15 colorectal cancer associated 1 [Source:HGNC Symbol;Acc:3
16	205428	1.75	2e-16	3e-14	50 x 50 chromosome 3 open reading frame 58 [Source:HGNC Symbc
17	29113	2.15	2e-16	3e-14	2 x 47 chromosome 6 open reading frame 15 [Source:HGNC Symbc
18	26256	1.89	2e-16	3e-14	50 x 50 calcium binding tyrosine-(Y)-phosphorylation regulated [Sou
19	84290	-1.73	2e-16	3e-14	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
20	874	1.7	2e-16	3e-14	6 x 50 carbonyl reductase 3 [Source:HGNC Symbol;Acc:1549]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	18.14	NULL	914	Chr Chr 3
2	13.11	NULL	633	Chr Chr 9
3	10.62	NULL	232	Chr Chr 18
4	10.05	NULL	13	GSEA C2SINGH_NFE2L2_TARGETS
5	9.18	NULL	34	BP glutathione metabolic process
6	7.98	NULL	463	miRNA target set B391a
7	7.73	NULL	433	miRNA target set B391a
8	7.73	NULL	456	miRNA target set B391a
9	7.47	NULL	142	Glio wilscher_GBM_Verhaak-CL_expression_C_up
10	7.47	NULL	142	Glio wilscher_GBM_Verhaak-PNmut_expression_C_down
11	7.35	NULL	4	MMML C6CIEJ_MMML_23
12	7.3	NULL	440	miRNA target set B391a
13	7.17	NULL	15	GSEA C2KEGG_GLUTATHIONE_METABOLISM
14	6.96	NULL	436	miRNA target set B391a
15	6.93	NULL	242	miRNA target set B391a
16	6.93	NULL	396	miRNA target set B391b
17	6.89	NULL	603	miRNA target set B391a
18	6.84	NULL	234	miRNA target set B391a
19	6.78	NULL	13	BP regulation of blood vessel size
20	6.76	NULL	25	BP glutathione derivative biosynthetic process
<i>Underexpressed</i>				
1	-13.57	NULL	553	Cancer Lembecke_Colonc Inflammation
2	-13.47	NULL	190	CC extracellular matrix
3	-13.42	NULL	250	Lymphoma ENZ_Stromal signature 1
4	-12.93	NULL	717	Chr Chr 16
5	-12.72	NULL	1182	CC extracellular region
6	-12.27	NULL	265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
7	-12.27	NULL	265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
8	-12.27	NULL	265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
9	-12.27	NULL	265	Glio wilscher_GBM_Verhaak-PNmut_expression_B_down
10	-12.14	NULL	21	CC cornified envelope
11	-11.64	NULL	64	BP collagen catabolic process
12	-11.51	NULL	135	H.Tiss WIRTH_Mucosa
13	-11.42	NULL	69	BP extracellular matrix disassembly
14	-10.97	NULL	242	BP extracellular matrix organization
15	-10.86	NULL	572	Disease GUDJ_poriasis up
16	-10.71	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
17	-10.6	NULL	683	CC extracellular space
18	-10.53	NULL	76	BP epidermis development
19	-10.09	NULL	11	MF platelet-derived growth factor binding
20	-9.88	NULL	42	BP keratinization

p-values



GW_125

Local Summary

%DE = 0.88
 # metagenes = 19
 # genes = 250
 # genes in genesets = 248

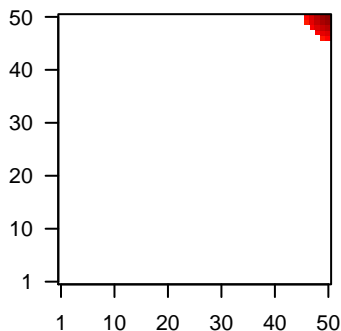
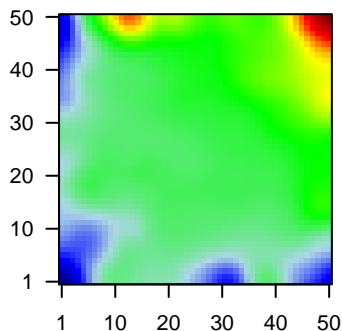
genes with $fdr < 0.1 = 204$ (197 + / 7 -)
 # genes with $fdr < 0.05 = 183$ (178 + / 5 -)
 # genes with $fdr < 0.01 = 155$ (152 + / 3 -)

<r> metagenes = 0.94
 <r> genes = 0.27

<FC> = 0.72
 <shrinkage-t> = 25.31
 <p-value> = 0
 <fdr> = 0.31

Profile

Spot



Local Genelist

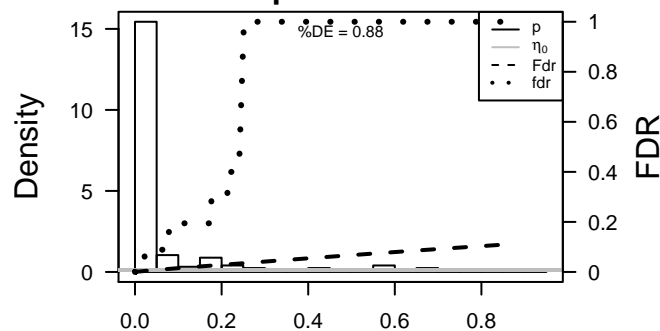
Rank	ID	log(FC)	fdr	p-value	Description
1	8745	1.79	2e-16	3e-16	50 x 50 ADAM metallopeptidase domain 23 [Source:HGNC Symbol;A
2	214	1.76	2e-16	3e-16	50 x 50 activated leukocyte cell adhesion molecule [Source:HGNC Sy
3	216	2.35	2e-16	3e-16	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC
4	84707	1.77	2e-16	3e-16	50 x 48 brain expressed X-linked 2 [Source:HGNC Symbol;Acc:3093
5	205428	1.75	2e-16	3e-16	50 x 50 chromosome 3 open reading frame 58 [Source:HGNC Symbc
6	26256	1.89	2e-16	3e-16	50 x 50 calcium binding tyrosine-(Y)-phosphorylation regulated [Sou
7	26047	2.15	2e-16	3e-16	50 x 50 contactin associated protein-like 2 [Source:HGNC Symbol;Ac
8	10655	1.69	2e-16	3e-16	50 x 50 doublesex and mab-3 related transcription factor 2 [Source:H
9	4072	1.98	2e-16	3e-16	50 x 50 epithelial cell adhesion molecule [Source:HGNC Symbol;Acc:
10	2729	1.89	2e-16	3e-16	50 x 50 glutamate-cysteine ligase, catalytic subunit [Source:HGNC S
11	2730	1.7	2e-16	3e-16	50 x 50 glutamate-cysteine ligase, modifier subunit [Source:HGNC S
12	2938	2.4	2e-16	3e-16	50 x 50 glutathione S-transferase alpha 2 [Source:HGNC Symbol;Ac
13	2944	2.49	2e-16	3e-16	50 x 50 glutathione S-transferase mu 1 [Source:HGNC Symbol;Acc:4
14	2946	1.77	2e-16	3e-16	50 x 50 glutathione S-transferase mu 2 (muscle) [Source:HGNC Syrr
15	2947	2.24	2e-16	3e-16	50 x 50 glutathione S-transferase mu 3 (brain) [Source:HGNC Symbc
16	3880	2.57	2e-16	3e-16	50 x 49 keratin 19 [Source:HGNC Symbol;Acc:6436]
17	4922	3.5	2e-16	3e-16	50 x 50 neurotensin [Source:HGNC Symbol;Acc:8038]
18	8544	1.73	2e-16	3e-16	50 x 50 pirin (iron-binding nuclear protein) [Source:HGNC Symbol;Ac
19	6657	1.85	2e-16	3e-16	50 x 50 SRY (sex determining region Y)-box 2 [Source:HGNC Symbc
20	7345	3	2e-16	3e-16	50 x 46 ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesteras

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	22.06	NULL	4 / 13	BP regulation of blood vessel size
2	20.93	NULL	6 / 25	BP glutathione derivative biosynthetic process
3	20.72	NULL	5 / 15	GSEA C2KEGG_GLUTATHIONE_METABOLISM
4	20.62	NULL	8 / 34	BP glutathione metabolic process
5	19.13	NULL	2 / 7	GSEA C2MCCOLLUM_GELDANAMYCIN_RESISTANCE_DN
6	18.35	NULL	5 / 20	MF glutathione transferase activity
7	18.02	NULL	3 / 11	MF glutathione binding
8	18.02	NULL	3 / 11	GSEA C2KEGG_DRUG_METABOLISM_CYTOCHROME_P450
9	18	NULL	4 / 13	GSEA C2KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P
10	16.03	NULL	4 / 15	GSEA C2REACTOME_GLUTATHIONE_CONJUGATION
11	14.8	NULL	3 / 11	GSEA C2TO_PTTG1_TARGETS_UP
12	14.58	NULL	13 / 119	BP xenobiotic metabolic process
13	14.19	NULL	3 / 8	GSEA C2LIU_CDX2_TARGETS_DN
14	13.31	NULL	67 / 914	Chr Chr 3
15	11.71	NULL	2 / 7	GSEA C2FREDERICK_PRKC1_TARGETS
16	11.3	NULL	2 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_DN
17	10.33	NULL	3 / 6	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_7
18	10.32	NULL	3 / 15	GSEA C2REACTOME_PHASE_II_CONJUGATION
19	10.27	NULL	3 / 16	GSEA C2BOYALTY_LIVER_CANCER_SUBCLASS_G1_DN
20	10.24	NULL	3 / 11	GSEA C2ODONNELL_TFRC_TARGETS_DN
21	9.82	NULL	1 / 8	GSEA C2MUNSHI_MULTIPLE_MYELOMA_DN
22	9.79	NULL	3 / 16	GSEA C2KAN_RESPONSE_TO_ARSENIC_TRIOXIDE
23	9.77	NULL	2 / 15	GSEA C2LEE_LIVER_CANCER_MYC_UP
24	9.77	NULL	2 / 15	GSEA C2LEE_LIVER_CANCER_E2F1_UP
25	9.53	NULL	1 / 11	Glio neurons_glio
26	9.43	NULL	4 / 15	GSEA C2JDAYAKUMAR_MED1_TARGETS_UP
27	9.32	NULL	2 / 12	BP glutamate metabolic process
28	9.28	NULL	4 / 26	BP sulfur amino acid metabolic process
29	9.09	NULL	3 / 16	GSEA C2GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_D
30	9.05	NULL	1 / 6	GSEA C2KAPOSI_LIVER_CANCER_POOR_SURVIVAL_DN
31	9.05	NULL	2 / 12	BP cellular aldehyde metabolic process
32	8.9	NULL	2 / 13	GSEA C2SINGH_NFE2L2_TARGETS
33	8.79	NULL	2 / 13	LymphomaBENTINK_mBL UP
34	8.61	NULL	1 / 10	MF omega peptidase activity
35	8.57	NULL	4 / 23	BP apoptotic mitochondrial changes
36	8.53	NULL	5 / 14	GSEA C2PUJANA_BRCA_CENTERED_NETWORK
37	8.37	NULL	3 / 12	GSEA C2KAYO_AGING_MUSCLE_UP
38	8.24	NULL	4 / 16	GSEA C2RODWELL_AGING_KIDNEY_DN
39	8.11	NULL	3 / 12	GSEA C2L_WILMS_TUMOR_VS_FETAL_KIDNEY_1_DN
40	7.95	NULL	1 / 15	MF neuropeptide hormone activity

p-values



GW_125

Local Summary

%DE = 0.87
 # metagenes = 15
 # genes = 251
 # genes in genesets = 249

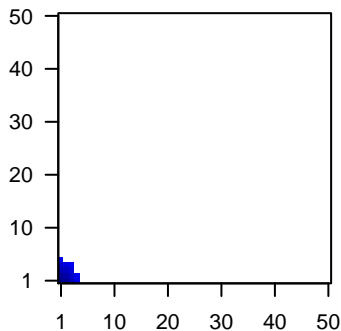
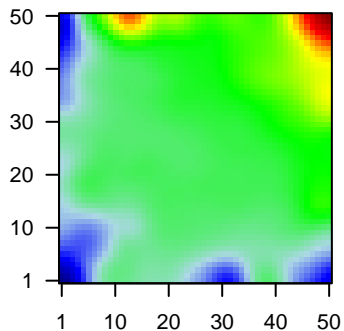
genes with $fdr < 0.1$ = 189 (16 + / 173 -)
 # genes with $fdr < 0.05$ = 189 (16 + / 173 -)
 # genes with $fdr < 0.01$ = 155 (11 + / 144 -)

<r> metagenes = 0.96
 <r> genes = 0.38

<FC> = -0.61
 <shrinkage-t> = -21.59
 <p-value> = 0
 <fdr> = 0.31

Profile

Spot



Local Genelist

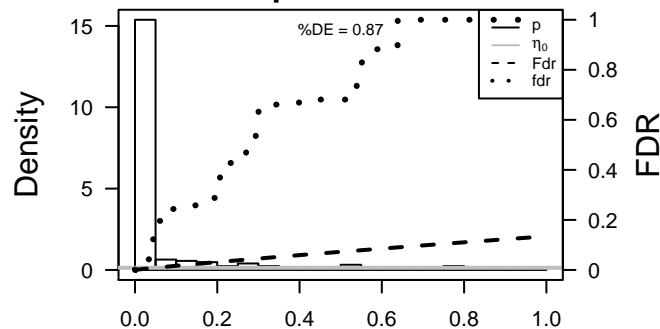
Rank	ID	log(FC)	fdr	p-value	Description
1	633	-1.71	2e-16	6e-16	3 x 1 biglycan [Source:HGNC Symbol;Acc:1044]
2	1277	-2.26	2e-16	6e-16	2 x 1 collagen, type I, alpha 1 [Source:HGNC Symbol;Acc:2197]
3	1278	-1.76	2e-16	6e-16	2 x 1 collagen, type I, alpha 2 [Source:HGNC Symbol;Acc:2198]
4	1289	-2.11	2e-16	6e-16	2 x 1 collagen, type V, alpha 1 [Source:HGNC Symbol;Acc:2209]
5	1290	-1.84	2e-16	6e-16	2 x 1 collagen, type V, alpha 2 [Source:HGNC Symbol;Acc:2210]
6	1291	-2.11	2e-16	6e-16	2 x 1 collagen, type VI, alpha 1 [Source:HGNC Symbol;Acc:2211]
7	54541	-1.78	2e-16	6e-16	1 x 4 DNA-damage-inducible transcript 4 [Source:HGNC Symbol;Acc:54541]
8	3040	2.21	2e-16	6e-16	4 x 1 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]
9	4312	-2.31	2e-16	6e-16	1 x 1 matrix metalloproteinase 1 (interstitial collagenase) [Source:HGNC Symbol;Acc:4312]
10	4314	-1.92	2e-16	6e-16	1 x 1 matrix metalloproteinase 3 (stromelysin 1, progelatinase) [Source:HGNC Symbol;Acc:4314]
11	6696	3.4	2e-16	6e-16	2 x 1 secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:11251]
12	3371	-1.88	2e-16	6e-16	1 x 3 tenascin C [Source:HGNC Symbol;Acc:5318]
13	1281	-1.5	3e-15	7e-13	2 x 1 collagen, type III, alpha 1 [Source:HGNC Symbol;Acc:2201]
14	10630	-1.58	2e-14	8e-13	1 x 2 podoplanin [Source:HGNC Symbol;Acc:29602]
15	25878	-1.56	5e-14	5e-12	3 x 1 matrix-remodelling associated 5 [Source:HGNC Symbol;Acc:25878]
16	55107	-1.51	2e-13	5e-12	1 x 5 anoctamin 1, calcium activated chloride channel [Source:HGNC Symbol;Acc:55107]
17	1293	-1.49	5e-13	5e-12	2 x 1 collagen, type VI, alpha 3 [Source:HGNC Symbol;Acc:2213]
18	3956	-1.48	6e-13	5e-12	1 x 1 lectin, galactoside-binding, soluble, 1 [Source:HGNC Symbol;Acc:3956]
19	12	-1.48	7e-13	9e-12	1 x 1
20	4316	-1.47	1e-12	9e-12	2 x 1 matrix metalloproteinase 7 (matrilysin, uterine) [Source:HGNC Symbol;Acc:4316]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-37.72	NULL	12 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
2	-37.34	NULL	58 / 190	CC extracellular matrix
3	-36.03	NULL	32 / 69	BP extracellular matrix disassembly
4	-35.76	NULL	29 / 64	BP collagen catabolic process
5	-35.44	NULL	7 / 11	MF platelet-derived growth factor binding
6	-34.48	NULL	15 / 16	MMML C6SCIEJ_MMML_1
7	-31.36	NULL	68 / 250	Lymphoma ENZ_Stromal signature 1
8	-30.19	NULL	67 / 242	BP extracellular matrix organization
9	-28.21	NULL	12 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
10	-24.73	NULL	14 / 37	BP collagen fibril organization
11	-23.52	NULL	20 / 57	MF extracellular matrix structural constituent
12	-23.13	NULL	8 / 12	miRNA target-29c
13	-22.74	NULL	8 / 15	GSEA C2ONDER_CDH1_TARGETS_2_UP
14	-22.45	NULL	11 / 40	BP cellular response to amino acid stimulus
15	-21.98	NULL	6 / 10	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C4
16	-21.37	NULL	36 / 183	CC proteinaceous extracellular matrix
17	-20.89	NULL	4 / 10	BP protein heterotrimerization
18	-20.12	NULL	5 / 10	GSEA C2KEGG_ECM_RECEPTOR_INTERACTION
19	-19.81	NULL	4 / 8	GSEA C2HAEGERSTRAND_RESPONSE_TO_IMATINIB
20	-19.72	NULL	7 / 16	GSEA C2TURASHVILL_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_CARCINOMA
21	-18.25	NULL	5 / 13	GSEA C2PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
22	-18.14	NULL	5 / 11	BP dermatan sulfate biosynthetic process
23	-18.14	NULL	8 / 16	GSEA C2ROZANOV_MMP14_TARGETS_SUBSET
24	-18.04	NULL	4 / 12	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C2
25	-17.85	NULL	12 / 35	Glio Colman_survival_associated
26	-17.73	NULL	38 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
27	-17.73	NULL	38 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
28	-17.73	NULL	38 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
29	-17.73	NULL	38 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
30	-17.69	NULL	6 / 13	GSEA C2TURASHVILL_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_CARCINOMA
31	-17.43	NULL	8 / 15	GSEA C2LEE_LIVER_CANCER_HEPATOBLAST
32	-16.75	NULL	59 / 553	Cancer Lembecke_Colonc Inflammation
33	-16.37	NULL	5 / 16	GSEA C2BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_DN
34	-16.27	NULL	4 / 15	GSEA C2REACTOME_NCAM1_INTERACTIONS
35	-16.15	NULL	99 / 1182	CC extracellular region
36	-16.12	NULL	16 / 68	CC collagen
37	-16.07	NULL	2 / 5	GSEA C2DASU_IL6_SIGNALING_UP
38	-16.04	NULL	73 / 683	CC extracellular space
39	-15.94	NULL	23 / 83	CC basement membrane
40	-15.92	NULL	25 / 153	CC endoplasmic reticulum lumen

p-values



GW_125

Local Summary

%DE = 0.93
 # metagenes = 1
 # genes = 74
 # genes in genesets = 73
 # genes with $fdr < 0.1$ = 65 (0 + / 65 -)
 # genes with $fdr < 0.05$ = 59 (0 + / 59 -)
 # genes with $fdr < 0.01$ = 52 (0 + / 52 -)

<r> metagenes = NA

<r> genes = 0.71

<FC> = -0.6

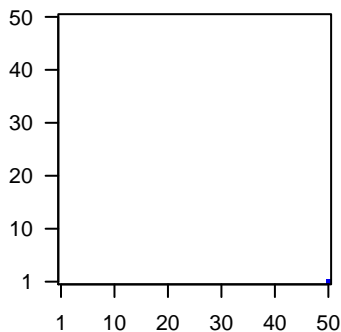
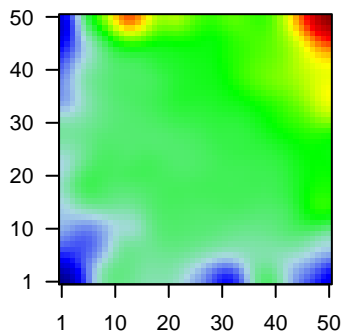
<shrinkage-t> = -20.9

<p-value> = 0

<fdr> = 0.38

Profile

Spot



Local Genelist

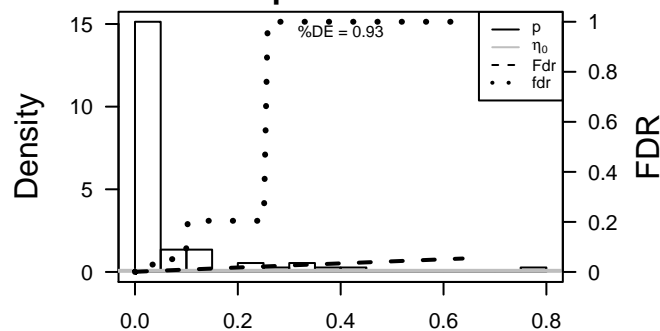
Rank	ID	log(FC)	fdr	p-value	Description
1	23180	-1.21	4e-09	7e-08	50 x 1 raftlin, lipid raft linker 1 [Source:HGNC Symbol;Acc:30278]
2	3126	-1.16	2e-08	1e-07	50 x 1 major histocompatibility complex, class II, DR beta 4 [Source:
3	348	-1.11	7e-08	1e-07	50 x 1 apolipoprotein E [Source:HGNC Symbol;Acc:613]
4	260436	-1.11	8e-08	5e-07	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
5	8764	-1.06	3e-07	5e-07	50 x 1 tumor necrosis factor receptor superfamily, member 14 [Sourc
6	83641	-1.06	3e-07	8e-07	50 x 1 family with sequence similarity 107, member B [Source:HGNC
7	10537	-1.04	5e-07	8e-07	50 x 1 ubiquitin D [Source:HGNC Symbol;Acc:18795]
8	5880	-1.03	6e-07	8e-07	50 x 1 ras-related C3 botulinum toxin substrate 2 (rho family, small (
9	972	-1.02	8e-07	1e-06	50 x 1 CD74 molecule, major histocompatibility complex, class II inv.
10	5341	-1.01	1e-06	6e-06	50 x 1 pleckstrin [Source:HGNC Symbol;Acc:9070]
11	3109	-0.98	2e-06	2e-05	50 x 1 major histocompatibility complex, class II, DM beta [Source:H
12	3689	-0.93	7e-06	2e-05	50 x 1 integrin, beta 2 (complement component 3 receptor 3 and 4 s
13	3108	-0.92	8e-06	4e-05	50 x 1 major histocompatibility complex, class II, DM alpha [Source:l
14	7133	-0.87	3e-05	4e-05	50 x 1 tumor necrosis factor receptor superfamily, member 1B [Sour
15	713	-0.86	3e-05	4e-05	50 x 1 complement component 1, q subcomponent, B chain [Source
16	3936	-0.86	3e-05	1e-04	50 x 1 lymphocyte cytosolic protein 1 (L-plastin) [Source:HGNC Syr
17	9806	-0.83	6e-05	4e-04	50 x 1 sparco/osteonectin, cwcv and kazal-like domains proteoglycar
18	3113	-0.79	1e-04	4e-04	50 x 1 major histocompatibility complex, class II, DP alpha 1 [Source
19	3512	-0.76	2e-04	4e-04	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglobu
20	3059	-0.74	3e-04	4e-04	50 x 1 hematopoietic cell-specific Lyn substrate 1 [Source:HGNC S

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-41.31	NULL	8 / 15	CC MHC class II protein complex
2	-31.79	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
3	-26.2	NULL	2 / 4	GSEA C2KEGG_LEISHMANIA_INFECTION
4	-21.94	NULL	8 / 47	BP antigen processing and presentation
5	-21.61	NULL	3 / 8	GSEA C2LINDSTEDT_DENDRITIC_CELL_MATURATION_D
6	-21.26	NULL	1 / 2	GSEA C2KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IIGA_PRODUC
7	-21.26	NULL	1 / 2	GSEA C2KEGG_AUTOIMMUNE_THYROID_DISEASE
8	-21.26	NULL	1 / 2	GSEA C2KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS
9	-21.24	NULL	5 / 15	GSEA C2FINAK_BREAST_CANCER_SDPP_SIGNATURE
10	-21.16	NULL	2 / 4	GSEA C2REACTOME_CLASSICAL_ANTIBODY_MEDIATED_COMPLEMEN
11	-21.09	NULL	5 / 21	CC clathrin-coated endocytic vesicle membrane
12	-20.04	NULL	5 / 23	CC integral to luminal side of endoplasmic reticulum membrane
13	-19.83	NULL	2 / 6	GSEA C2LUI_THYROID_CANCER_CLUSTER_4
14	-19.44	NULL	3 / 12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN
15	-18.93	NULL	3 / 10	GSEA C2HOSHIDA_LIVER_CANCER_SUBCLASS_S1
16	-18.71	NULL	2 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
17	-18.19	NULL	21 / 312	BP immune response
18	-17.95	NULL	5 / 28	CC transport vesicle membrane
19	-17.73	NULL	2 / 8	GSEA C2GRAHAM_CML QUIESCENT_VS_NORMAL_DIVIDING_DN
20	-17	NULL	2 / 8	GSEA C2KEGG_CELL_ADHESION_MOLECULES_CAMS
21	-16.65	NULL	5 / 32	CC ER to Golgi transport vesicle membrane
22	-16.61	NULL	2 / 11	GSEA C2ABE_VEGFA_TARGETS_2HR
23	-16.48	NULL	3 / 10	BP negative thymic T cell selection
24	-16.42	NULL	9 / 87	BP antigen processing and presentation of exogenous peptide antigen
25	-16.41	NULL	3 / 12	BP immunoglobulin mediated immune response
26	-16.38	NULL	8 / 60	BP T cell costimulation
27	-16.21	NULL	3 / 11	GSEA C2KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY
28	-15.84	NULL	5 / 35	CC trans-Golgi network membrane
29	-15.82	NULL	3 / 14	BP ruffle organization
30	-15.77	NULL	1 / 3	GSEA C2KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION
31	-15.55	NULL	3 / 16	GSEA C2FERRANDO_TAL1_NEIGHBORS
32	-15.5	NULL	2 / 11	GSEA C2WILENSKY_RESPONSE_TO_DARAPLADIB
33	-15.1	NULL	22 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
34	-15.1	NULL	22 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
35	-15.1	NULL	22 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
36	-15.1	NULL	22 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
37	-14.9	NULL	2 / 3	MMML C2SCIEJ_MMML_7
38	-14.87	NULL	2 / 7	GSEA C2BIOCARTA_COMP_PATHWAY
39	-14.86	NULL	1 / 5	GSEA C2NAKAMURA_ALVEOLAR_EPITHELIUM
40	-14.8	NULL	2 / 11	BP chaperone mediated protein folding requiring cofactor

p-values



GW_125

Local Summary

%DE = 0.95
 # metagenes = 6
 # genes = 153
 # genes in genesets = 149

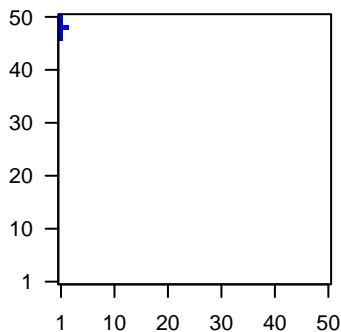
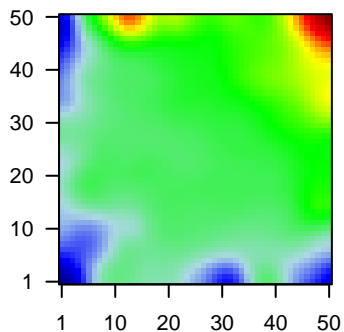
genes with $fdr < 0.1$ = 125 (18 + / 107 -)
 # genes with $fdr < 0.05$ = 125 (18 + / 107 -)
 # genes with $fdr < 0.01$ = 112 (16 + / 96 -)

$\langle r \rangle$ metagenes = 0.97
 $\langle r \rangle$ genes = 0.49

$\langle FC \rangle = -0.71$
 $\langle \text{shrinkage-t} \rangle = -25.12$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.22$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	131	3.04	2e-16	6e-17	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
2	57016	3.19	2e-16	6e-17	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
3	441282	3.05	2e-16	6e-17	1 x 49 aldo-keto reductase family 1, member B15 [Source:HGNC S]
4	8644	3.18	2e-16	6e-17	1 x 50 aldo-keto reductase family 1, member C3 [Source:HGNC Sy
5	218	2.31	2e-16	6e-17	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
6	84290	-1.73	2e-16	6e-17	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
7	54544	-1.8	2e-16	6e-17	1 x 50 cysteine-rich C-terminal 1 [Source:HGNC Symbol;Acc:2987]
8	49860	-2.59	2e-16	6e-17	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
9	1672	-1.83	2e-16	6e-17	1 x 50 defensin, beta 1 [Source:HGNC Symbol;Acc:2766]
10	414325	-2.34	2e-16	6e-17	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
11	115572	-2.04	2e-16	6e-17	1 x 48 family with sequence similarity 46, member B [Source:HGNC
12	2706	-2.62	2e-16	6e-17	1 x 47 gap junction protein, beta 2, 26kDa [Source:HGNC Symbol;A
13	2877	3.1	2e-16	6e-17	1 x 50 glutathione peroxidase 2 (gastrointestinal) [Source:HGNC Sy
14	26085	-1.99	2e-16	6e-17	1 x 50 kallikrein-related peptidase 13 [Source:HGNC Symbol;Acc:6:
15	3851	-2.81	2e-16	6e-17	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]
16	8581	-2.2	2e-16	6e-17	1 x 48 lymphocyte antigen 6 complex, locus D [Source:HGNC Symb
17	4118	-1.93	2e-16	6e-17	1 x 50 mal, T-cell differentiation protein [Source:HGNC Symbol;Acc
18	51458	-2.23	2e-16	6e-17	1 x 50 Rh family, C glycoprotein [Source:HGNC Symbol;Acc:18140]
19	84659	-1.99	2e-16	6e-17	1 x 48 ribonuclease, RNase A family, 7 [Source:HGNC Symbol;Acc:
20	6278	-3.91	2e-16	6e-17	1 x 49 S100 calcium binding protein A7 [Source:HGNC Symbol;Acc:

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-40.12	NULL	17 / 21	CC cornified envelope
2	-29.98	NULL	64 / 135	H.Tiss WIRTH_Mucosa
3	-28.41	NULL	4 / 10	MF RAGE receptor binding
4	-27.65	NULL	18 / 42	BP keratinization
5	-25.57	NULL	21 / 76	BP epidermis development
6	-22.11	NULL	22 / 53	BP keratinocyte differentiation
7	-20.69	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
8	-19.61	NULL	74 / 572	Disease GUDJ_psooriasis up
9	-14.28	NULL	3 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_DN
10	-12.94	NULL	5 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
11	-12.82	NULL	9 / 19	BP peptide cross-linking
12	-10.47	NULL	2 / 12	GSEA C2REACTOME_GAP_JUNCTION_ASSEMBLY
13	-10.1	NULL	5 / 16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
14	-9.99	NULL	2 / 13	GSEA C2REACTOME_GAP_JUNCTION_TRAFFICKING
15	-9.94	NULL	3 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
16	-9.67	NULL	4 / 15	GSEA C2CHANG_IMMORTALIZED_BY_HPV31_DN
17	-9.19	NULL	2 / 15	CC connexon complex
18	-9.16	NULL	6 / 73	BP defense response to bacterium
19	-8.76	NULL	1 / 16	BP response to reactive oxygen species
20	-8.61	NULL	1 / 5	miRNA target-196a
21	-8.5	NULL	3 / 16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
22	-8.35	NULL	2 / 14	BP defense response to fungus
23	-8.19	NULL	3 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATEL
24	-8.16	NULL	4 / 15	GSEA C2AIGNER_ZEB1_TARGETS
25	-8.08	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
26	-7.93	NULL	1 / 19	BP defense response to Gram-negative bacterium
27	-7.68	NULL	1 / 10	MF gap junction channel activity
28	-7.56	NULL	2 / 21	CC gap junction
29	-7.53	NULL	2 / 15	GSEA C2KARAKAS_TGFB1_SIGNALING
30	-7.44	NULL	4 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
31	-7.24	NULL	5 / 13	BP negative regulation of peptidase activity
32	-7.21	NULL	6 / 15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
33	-7.1	NULL	5 / 38	BP epithelial cell differentiation
34	-7.04	NULL	19 / 186	MF structural molecule activity
35	-6.89	NULL	1 / 12	GSEA C2SCHLESINGER_METHYLATED_DE_NOVO_IN_CANCER
36	-6.49	NULL	2 / 15	MF interleukin-1 receptor binding
37	-6.33	NULL	9 / 44	CC keratin filament
38	-6.29	NULL	1 / 14	GSEA C2ZHAN_MULTIPLE_MYELOMA_CD2_DN
39	-6.12	NULL	2 / 16	GSEA C2MURATA_VIRULENCE_OF_H_PILORI
40	-6.09	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP

p-values

