

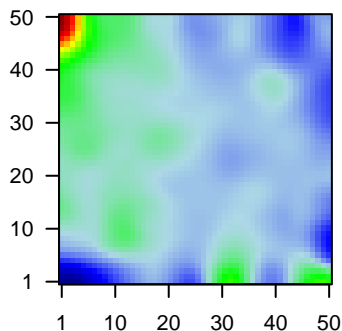
GW_116

Global Summary

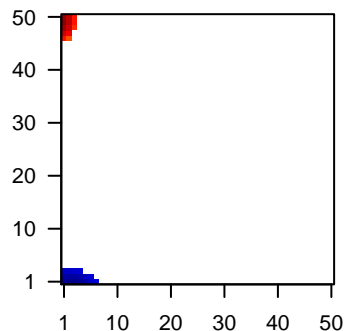
%DE = 0.13
 # genes with fdr < 0.2 = 1691 (953 + / 738 -)
 # genes with fdr < 0.1 = 1326 (759 + / 567 -)
 # genes with fdr < 0.05 = 1076 (629 + / 447 -)
 # genes with fdr < 0.01 = 738 (449 + / 289 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.11
 <fdr> = 0.87

Profile



Regulated Spots



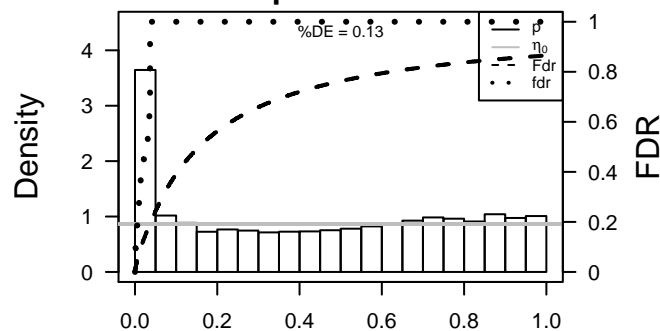
Global Genelist

Rank	ID	log(FC)	fdr p-value	Description
1	242	1.71	2e-16 3e-14 1 x 48	arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syrr
2	59344	1.33	2e-16 3e-14 2 x 45	arachidonate lipoxygenase 3 [Source:HGNC Symbol;Acc:137
3	144193	1.48	2e-16 3e-14 15 x 50	amidohydrolase domain containing 1 [Source:HGNC Symbol;
4	55107	1.34	2e-16 3e-14 1 x 5	anoctamin 1, calcium activated chloride channel [Source:HG
5	341	1.53	2e-16 3e-14 50 x 1	apolipoprotein C-I [Source:HGNC Symbol;Acc:607]
6	348	1.54	2e-16 3e-14 50 x 1	apolipoprotein E [Source:HGNC Symbol;Acc:613]
7	23120	1.39	2e-16 3e-14 1 x 50	ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543
8	10409	-1.3	2e-16 3e-14 1 x 2	brain abundant, membrane attached signal protein 1 [Source:
9	387695	2.13	2e-16 3e-14 1 x 49	chromosome 10 open reading frame 99 [Source:HGNC Synt
10	64207	-1.94	2e-16 3e-14 50 x 40	interferon regulatory factor 2 binding protein-like [Source:HGI
11	29113	1.36	2e-16 3e-14 2 x 47	chromosome 6 open reading frame 15 [Source:HGNC Symbc
12	9560	1.84	2e-16 3e-14 32 x 1	chemokine (C-C motif) ligand 4-like 1 [Source:HGNC Symbc
13	388372	1.25	2e-16 3e-14 32 x 1	chemokine (C-C motif) ligand 4-like 1 [Source:HGNC Symbc
14	915	1.25	2e-16 3e-14 49 x 1	CD3d molecule, delta (CD3-TCR complex) [Source:HGNC S
15	49860	1.96	2e-16 3e-14 1 x 50	cornulin [Source:HGNC Symbol;Acc:1230]
16	1410	1.35	2e-16 3e-14 25 x 1	crystallin, alpha B [Source:HGNC Symbol;Acc:2389]
17	441520	2.31	2e-16 3e-14 14 x 11	cancer/testis antigen family 45, member A2 [Source:HGNC S
18	3627	1.61	2e-16 3e-14 32 x 1	chemokine (C-X-C motif) ligand 10 [Source:HGNC Symbol;A
19	6372	1.72	2e-16 3e-14 1 x 1	chemokine (C-X-C motif) ligand 6 [Source:HGNC Symbol;Ac
20	4283	1.56	2e-16 3e-14 49 x 1	chemokine (C-X-C motif) ligand 9 [Source:HGNC Symbol;Ac

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	21	NULL	135	H.Tiss WIRTH_Mucosa
2	16.8	NULL	572	Disease GUDJ_poriasis up
3	11.85	NULL	42	BP keratinization
4	11	NULL	866	Chr Chr 12
5	9.55	NULL	21	CC cornified envelope
6	8.86	NULL	47	BP antigen processing and presentation
7	8.85	NULL	449	Chr Chr 20
8	8.61	NULL	15	CC MHC class II protein complex
9	7.24	NULL	76	BP epidermis development
10	7.02	NULL	44	CC keratin filament
11	6.96	NULL	23	CC integral to luminal side of endoplasmic reticulum membrane
12	6.8	NULL	53	BP keratinocyte differentiation
13	6.56	NULL	73	BP defense response to bacterium
14	6.49	NULL	534	Chr Chr 8
15	6.41	NULL	9	GSEA C2ABE_VEGFA_TARGETS_30MIN
16	6.34	NULL	10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
17	6.16	NULL	60	BP interferon-gamma-mediated signaling pathway
18	6.11	NULL	10	BP white fat cell differentiation
19	6.07	NULL	11	GSEA C2BENNETT_SYSTEMIC_LUPUS_ERYTHEMATOSUS
20	5.84	NULL	12	MF fatty acid binding
<i>Underexpressed</i>				
1	-10.59	NULL	190	CC extracellular matrix
2	-8.43	NULL	1033	Chr Chr 2
3	-8.11	NULL	142	Glio wilscher_GBM_Verhaak-CL_expression_C_up
4	-8.11	NULL	142	Glio wilscher_GBM_Verhaak-PNmut_expression_C_down
5	-7.99	NULL	250	LymphomaENZ_Stromal signature 1
6	-6.97	NULL	714	Chr Chr 6
7	-6.82	NULL	100	LymphomaOSOLOWSKI_blue total
8	-6.6	NULL	1720	Chr Chr 1
9	-6.43	NULL	633	Chr Chr 9
10	-6.19	NULL	242	BP extracellular matrix organization
11	-6.1	NULL	64	BP collagen catabolic process
12	-5.95	NULL	69	BP extracellular matrix disassembly
13	-5.9	NULL	183	CC proteinaceous extracellular matrix
14	-5.88	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
15	-5.68	NULL	16	MMML C2SCIEJ_MMML 1
16	-5.67	NULL	375	Disease GUDJ_poriasis down
17	-5.59	NULL	10	BP negative regulation of fibroblast growth factor receptor signaling pa
18	-5.48	NULL	15	GSEA C2DASU_IL6_SIGNALING_SCAR_DN
19	-5.48	NULL	57	MF extracellular matrix structural constituent
20	-5.43	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F

p-values



GW_116

Local Summary

%DE = 0.81
 # metagenes = 13
 # genes = 194
 # genes in genesets = 188

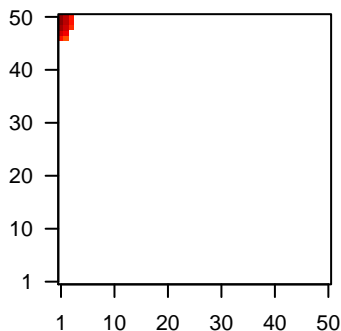
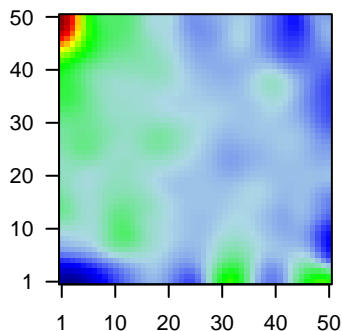
genes with $fdr < 0.1$ = 136 (125 + / 11 -)
 # genes with $fdr < 0.05$ = 136 (125 + / 11 -)
 # genes with $fdr < 0.01$ = 121 (111 + / 10 -)

$\langle r \rangle$ metagenes = 0.96
 $\langle r \rangle$ genes = 0.47

$\langle FC \rangle = 0.64$
 $\langle \text{shrinkage-t} \rangle = 22.73$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.3$

Profile

Spot



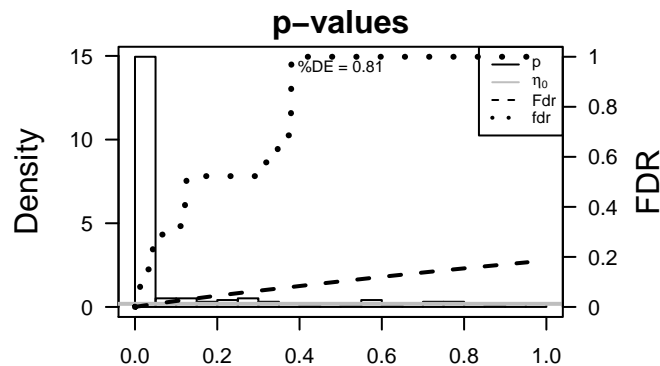
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	242	1.71	2e-16	2e-16	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syrn
2	23120	1.39	2e-16	2e-16	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543
3	387695	2.13	2e-16	2e-16	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
4	29113	1.36	2e-16	2e-16	2 x 47 chromosome 6 open reading frame 15 [Source:HGNC Symbc
5	49860	1.96	2e-16	2e-16	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
6	1672	1.95	2e-16	2e-16	1 x 50 defensin, beta 1 [Source:HGNC Symbol;Acc:2766]
7	55894	1.9	2e-16	2e-16	1 x 47 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
8	414325	1.96	2e-16	2e-16	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
9	1673	2.54	2e-16	2e-16	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
10	1824	1.21	2e-16	2e-16	1 x 48 desmocollin 2 [Source:HGNC Symbol;Acc:3036]
11	1828	1.93	2e-16	2e-16	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
12	2171	1.35	2e-16	2e-16	1 x 46 fatty acid binding protein 5 (psoriasis-associated) [Source:HC
13	10804	1.42	2e-16	2e-16	1 x 47 gap junction protein, beta 6, 30kDa [Source:HGNC Symbol;A
14	53833	1.29	2e-16	2e-16	1 x 46 interleukin 20 receptor beta [Source:HGNC Symbol;Acc:6004
15	43849	1.24	2e-16	2e-16	1 x 50 kallikrein-related peptidase 12 [Source:HGNC Symbol;Acc:6:
16	26085	1.42	2e-16	2e-16	1 x 50 kallikrein-related peptidase 13 [Source:HGNC Symbol;Acc:6:
17	5653	-1.47	2e-16	2e-16	1 x 50 kallikrein-related peptidase 6 [Source:HGNC Symbol;Acc:63:
18	3848	2.06	2e-16	2e-16	1 x 47 keratin 1 [Source:HGNC Symbol;Acc:6412]
19	3860	1.4	2e-16	2e-16	1 x 50 keratin 13 [Source:HGNC Symbol;Acc:6415]
20	3868	1.77	2e-16	2e-16	1 x 46 keratin 16 [Source:HGNC Symbol;Acc:6423]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	47.24	NULL	78 / 135	H.Tiss WIRTH_Mucosa
2	30.34	NULL	19 / 42	BP keratinization
3	27.63	NULL	18 / 21	CC cornified envelope
4	26.49	NULL	85 / 572	Disease GUDJ_poriasis up
5	19.73	NULL	23 / 53	BP keratinocyte differentiation
6	18.76	NULL	10 / 19	BP peptide cross-linking
7	17.78	NULL	22 / 76	BP epidermis development
8	16.16	NULL	9 / 44	CC keratin filament
9	15.21	NULL	5 / 10	MF RAGE receptor binding
10	13.15	NULL	9 / 21	CC desmosome
11	13.09	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
12	12.69	NULL	2 / 8	GSEA C2LIU_CDX2_TARGETS_DN
13	12.55	NULL	6 / 13	BP negative regulation of peptidase activity
14	12.53	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
15	11.52	NULL	20 / 186	MF structural molecule activity
16	11.38	NULL	13 / 82	CC intermediate filament
17	10.77	NULL	6 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
18	10.72	NULL	13 / 79	MF serine-type endopeptidase inhibitor activity
19	10.07	NULL	10 / 52	BP negative regulation of endopeptidase activity
20	9.82	NULL	7 / 73	BP defense response to bacterium
21	9.8	NULL	5 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATE
22	9.75	NULL	7 / 29	BP regulation of proteolysis
23	8.99	NULL	6 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
24	8.96	NULL	3 / 10	GSEA C2NIKOLSKY_BREAST_CANCER_20Q12_Q13_AMPLICON
25	8.83	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
26	8.74	NULL	4 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
27	8.67	NULL	3 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
28	8.54	NULL	5 / 58	Glio Christensen_hypomethylated_in_secondary_glioblastoma
29	8.19	NULL	3 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
30	8.1	NULL	51 / 1182	CC extracellular region
31	8.02	NULL	3 / 13	GSEA C2FARMER_BREAST_CANCER_APOCRINE_VS_LUMINAL
32	7.88	NULL	5 / 23	MF peptidase inhibitor activity
33	7.78	NULL	3 / 16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
34	7.73	NULL	6 / 38	BP epithelial cell differentiation
35	7.56	NULL	3 / 63	CC Golgi lumen
36	7.22	NULL	3 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_DN
37	7.09	NULL	3 / 16	GSEA C2JAEGER_METASTASIS_DN
38	6.94	NULL	1 / 5	GSEA C2NAKAMURA_LUNG_CANCER
39	6.94	NULL	1 / 5	GSEA C2NAKAMURA_LUNG_CANCER_MARKERS
40	6.92	NULL	2 / 8	GSEA C2MCLACHLAN_DENTAL_CARIES_UP



GW_116

Local Summary

%DE = 0.71
 # metagenes = 17
 # genes = 293
 # genes in genesets = 292
 # genes with $fdr < 0.1$ = 160 (22 + / 138 -)
 # genes with $fdr < 0.05$ = 154 (22 + / 132 -)
 # genes with $fdr < 0.01$ = 113 (15 + / 98 -)

<r> metagenes = 0.96

<r> genes = 0.41

<FC> = -0.31

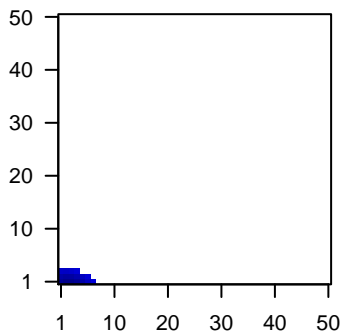
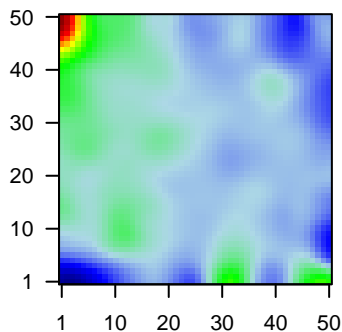
<shrinkage-t> = -10.79

<p-value> = 0

<fdr> = 0.48

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	10409	-1.3	2e-16	2e-15	1 x 2 brain abundant, membrane attached signal protein 1 [Source:...
2	6372	1.72	2e-16	2e-15	1 x 1 chemokine (C-X-C motif) ligand 6 [Source:HGNC Symbol;Acc:...
3	3040	-1.51	2e-16	2e-15	4 x 1 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]
4	3043	-1.38	2e-16	2e-15	5 x 1 hemoglobin, beta [Source:HGNC Symbol;Acc:4827]
5	4319	-1.52	2e-16	2e-15	1 x 3 matrix metalloproteinase 10 (stromelysin 2) [Source:HGNC Sy...
6	4314	-1.9	2e-16	2e-15	1 x 1 matrix metalloproteinase 3 (stromelysin 1, progelatinase) [Sou...
7	4316	1.86	2e-16	2e-15	2 x 1 matrix metalloproteinase 7 (matrilysin, uterine) [Source:HGNC...
8	26064	-1.26	2e-16	2e-15	4 x 1 retinoic acid induced 14 [Source:HGNC Symbol;Acc:14873]
9	5270	-1.45	2e-16	2e-15	1 x 3 serpin peptidase inhibitor, clade E (nexin, plasminogen activa...
10	7057	-2.16	2e-16	2e-15	1 x 1 thrombospondin 1 [Source:HGNC Symbol;Acc:11785]
11	4318	-1.15	7e-15	4e-13	1 x 1 matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 9...
12	414062	1.15	9e-15	6e-13	1 x 1 chemokine (C-C motif) ligand 3-like 3 [Source:HGNC Symbc...
13	3553	-1.13	2e-14	8e-13	1 x 1 interleukin 1, beta [Source:HGNC Symbol;Acc:5992]
14	4502	-1.13	2e-14	2e-12	1 x 3 metallothionein 2A [Source:HGNC Symbol;Acc:7406]
15	5743	-1.11	5e-14	3e-11	1 x 1 prostaglandin-endoperoxide synthase 2 (prostaglandin G/H s...
16	1289	-1.07	4e-13	2e-10	2 x 1 collagen, type V, alpha 1 [Source:HGNC Symbol;Acc:2209]
17	4312	-1.04	2e-12	2e-10	1 x 1 matrix metalloproteinase 1 (interstitial collagenase) [Source:Hi...
18	1277	-1.02	4e-12	2e-10	2 x 1 collagen, type I, alpha 1 [Source:HGNC Symbol;Acc:2197]
19	7291	-1.02	6e-12	3e-10	3 x 1 twist family bHLH transcription factor 1 [Source:HGNC Symbc...
20	3039	-1.01	1e-11	5e-10	5 x 1 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-30.19	NULL	69 / 190	CC extracellular matrix
2	-26.33	NULL	81 / 250	Lymphocyte-stromal signature 1
3	-25.89	NULL	14 / 16	MMML C6CIEJ_MMML 1
4	-23.81	NULL	6 / 10	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C4
5	-21.58	NULL	7 / 15	GSEA C2DASU_IL6_SIGNALING_SCAR_DN
6	-20.86	NULL	11 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
7	-20.56	NULL	64 / 242	BP extracellular matrix organization
8	-20.27	NULL	12 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
9	-20.25	NULL	2 / 4	MMML C6CIEJ_MMML 23
10	-19.88	NULL	31 / 69	BP extracellular matrix disassembly
11	-19.41	NULL	8 / 11	MF platelet-derived growth factor binding
12	-19.39	NULL	5 / 16	GSEA C2URS_ADIPOCYTE_DIFFERENTIATION_DN
13	-19.02	NULL	11 / 19	MF extracellular matrix binding
14	-18.88	NULL	5 / 10	BP negative regulation of fibroblast growth factor receptor signaling pa...
15	-18.82	NULL	4 / 6	GSEA C2AGARWAL_AKT_PATHWAY_TARGETS
16	-18.61	NULL	27 / 64	BP collagen catabolic process
17	-17.26	NULL	5 / 10	GSEA C2KEGG_ECM_RECEPTOR_INTERACTION
18	-17.15	NULL	11 / 15	GSEA C2ONDER_CDH1_TARGETS_2_UP
19	-16.17	NULL	7 / 16	GSEA C2LIEN_BREAST_CARCINOMA_METAPLASTIC
20	-16.11	NULL	6 / 13	GSEA C2TSAL_RESPONSE_TO_RADIATION_THERAPY
21	-16.08	NULL	21 / 57	MF extracellular matrix structural constituent
22	-15.87	NULL	4 / 5	GSEA C2COLLER_MYC_TARGETS_DN
23	-15.44	NULL	3 / 16	GSEA C2KEGG_BLADDER_CANCER
24	-15.32	NULL	7 / 15	GSEA C2LEE_LIVER_CANCER_HEPATOBLAST
25	-15.15	NULL	38 / 183	CC proteinaceous extracellular matrix
26	-14.97	NULL	2 / 12	CC platelet alpha granule
27	-14.87	NULL	5 / 10	GSEA C2SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
28	-14.55	NULL	8 / 12	miRNA target-29c
29	-14.14	NULL	6 / 15	GSEA C2MASRI_RESISTANCE_TO_TAMOXIFEN_AND_AROMATASE_INH...
30	-14.09	NULL	4 / 15	GSEA C2KIM_WT1_TARGETS_12HR_DN
31	-13.97	NULL	3 / 10	BP positive regulation of endothelial cell apoptotic process
32	-13.96	NULL	3 / 10	BP positive regulation of chemotaxis
33	-13.9	NULL	2 / 11	GSEA C2VERRECCHIA_DELAYED_RESPONSE_TO_TGFB1
34	-13.88	NULL	4 / 13	GSEA C2REACTOME_FORMATION_OF_PLATELET_PLUG
35	-13.88	NULL	4 / 13	GSEA C2REACTOME_PLATELET_ACTIVATION
36	-13.8	NULL	14 / 37	BP collagen fibril organization
37	-13.76	NULL	5 / 19	MF peroxidase activity
38	-13.73	NULL	4 / 15	GSEA C2TRAYNOR_RETT_SYNDROM_UP
39	-13.67	NULL	2 / 8	GSEA C2NAKAYAMA_SOFT_TISSUE_TUMORS_PCA1_UP
40	-13.64	NULL	10 / 36	BP embryo implantation

p-values

