

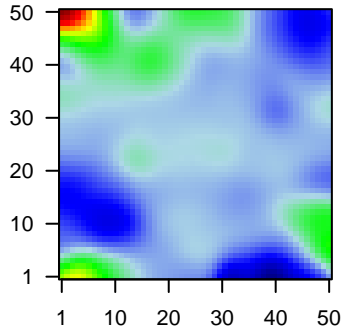
GW_226

Global Summary

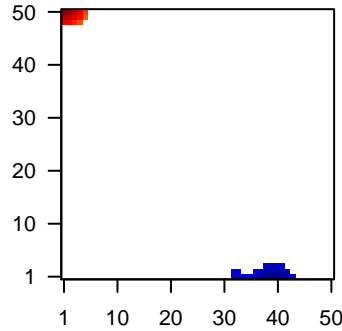
%DE = 0.15
 # genes with fdr < 0.2 = 1945 (1104 + / 841 -)
 # genes with fdr < 0.1 = 1513 (890 + / 623 -)
 # genes with fdr < 0.05 = 1251 (755 + / 496 -)
 # genes with fdr < 0.01 = 885 (568 + / 317 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.09
 <fdr> = 0.85

Profile



Regulated Spots



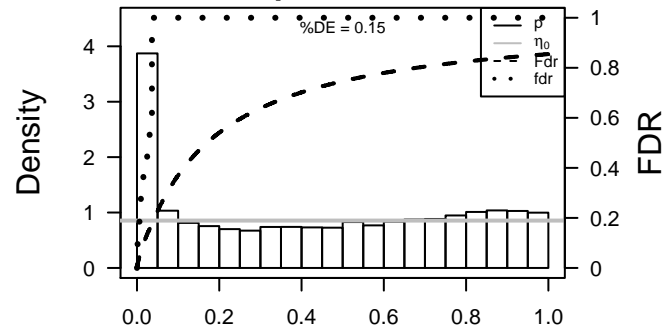
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	2.39	2e-16	2e-14	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	131	1.88	2e-16	2e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	57016	1.42	2e-16	2e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
4	218	1.5	2e-16	2e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
5	239	1.5	2e-16	2e-14	5 x 49 arachidonate 12-lipoxygenase [Source:HGNC Symbol;Acc:4:
6	249	1.59	2e-16	2e-14	6 x 1 alkaline phosphatase, liver/bone/kidney [Source:HGNC Synt
7	23452	1.88	2e-16	2e-14	3 x 1 angiotensin-like 2 [Source:HGNC Symbol;Acc:490]
8	353322	1.82	2e-16	2e-14	6 x 48 ankyrin repeat domain 37 [Source:HGNC Symbol;Acc:29593]
9	366	1.58	2e-16	2e-14	1 x 1 aquaporin 9 [Source:HGNC Symbol;Acc:643]
10	8424	1.39	2e-16	2e-14	3 x 48 butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma
11	684	-1.81	2e-16	2e-14	32 x 1 bone marrow stromal cell antigen 2 [Source:HGNC Symbol;A
12	387695	1.75	2e-16	2e-14	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
13	343990	1.57	2e-16	2e-14	50 x 12 KIAA1211-like [Source:HGNC Symbol;Acc:33454]
14	394263	2.21	2e-16	2e-14	3 x 50
15	29923	1.6	2e-16	2e-14	4 x 44 hypoxia inducible lipid droplet-associated [Source:HGNC Syr
16	375791	1.97	2e-16	2e-14	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
17	810	1.33	2e-16	2e-14	1 x 50 calmodulin-like 3 [Source:HGNC Symbol;Acc:1452]
18	57172	-1.77	2e-16	2e-14	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
19	6366	1.79	2e-16	2e-14	50 x 2 chemokine (C-C motif) ligand 21 [Source:HGNC Symbol;Acc
20	978	1.47	2e-16	2e-14	1 x 46 cytidine deaminase [Source:HGNC Symbol;Acc:1712]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	30.4	NULL	135	H.Tiss WIRTH_Mucosa
2	17.15	NULL	250	LymphoH1ENZ_Stromal signature 1
3	12.78	NULL	190	CC extracellular matrix
4	11.39	NULL	16	MMML C6SCIEJ_MMML 1
5	11.27	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
6	10.99	NULL	265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
7	10.99	NULL	265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
8	10.99	NULL	265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
9	10.99	NULL	265	Glio wilscher_GBM_Verhaak-PNmut_expression_B_down
10	10.67	NULL	21	CC cornified envelope
11	10.5	NULL	19	BP peptide cross-linking
12	10.48	NULL	1182	CC extracellular region
13	10.17	NULL	16	GSEA C2CROMER_TUMORIGENESIS_DN
14	9.44	NULL	683	CC extracellular space
15	8.94	NULL	242	BP extracellular matrix organization
16	8.85	NULL	53	BP keratinocyte differentiation
17	8.69	NULL	15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
18	8.04	NULL	15	GSEA C2ONDER_CDH1_TARGETS_2_UP
19	7.96	NULL	1146	TF HEBENSTREIT_low expression TF
20	7.93	NULL	76	BP epidermis development
<i>Underexpressed</i>				
1	-10.58	NULL	51	BP type I interferon signaling pathway
2	-9.78	NULL	16	GSEA C2EINAV_INTERFERON_SIGNATURE_IN_CANCER
3	-9.65	NULL	13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
4	-9.57	NULL	123	BP defense response to virus
5	-9.43	NULL	16	GSEA C2MOSERLE_IFNA_RESPONSE
6	-8.93	NULL	16	GSEA C2ZHANG_INTERFERON_RESPONSE
7	-8.58	NULL	10	GSEA C2BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
8	-8.53	NULL	16	GSEA C2JROSEVIC_RESPONSE_TO_IMIQUIMOD
9	-8.26	NULL	949	CC nucleoplasm
10	-7.51	NULL	4640	CC nucleus
11	-7.43	NULL	298	BP DNA repair
12	-7.31	NULL	109	BP response to virus
13	-7.3	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
14	-7.3	NULL	31	BP negative regulation of viral genome replication
15	-7.25	NULL	370	BP mitotic cell cycle
16	-7.18	NULL	10	GSEA C2GRANDVAUX_IFN_RESPONSE_NOT_VIA_IRF3
17	-7.02	NULL	1749	MF DNA binding
18	-7	NULL	417	H.Tiss WIRTH_Immune system
19	-6.92	NULL	940	MF nucleic acid binding
20	-6.77	NULL	11	GSEA C2BENNETT_SYSTEMIC_LUPUS_ERYTHEMATOSUS

p-values



GW_226

Local Summary

%DE = 0.97
 # metagenes = 14
 # genes = 205
 # genes in genesets = 201

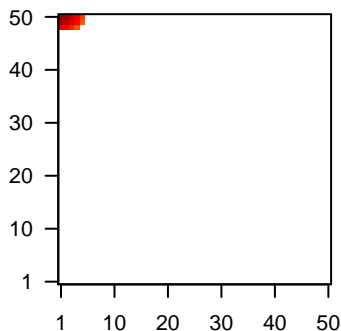
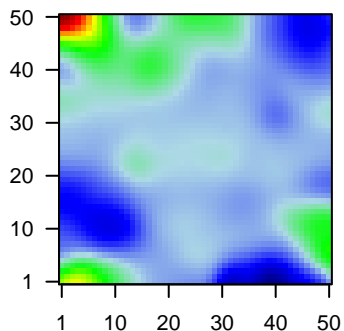
genes with $fdr < 0.1 = 191$ (183 + / 8 -)
 # genes with $fdr < 0.05 = 184$ (178 + / 6 -)
 # genes with $fdr < 0.01 = 176$ (170 + / 6 -)

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

<FC> = 1.06
 <shrinkage-t> = 37.44
 <p-value> = 0
 <fdr> = 0.13

Profile

Spot



Local Genelist

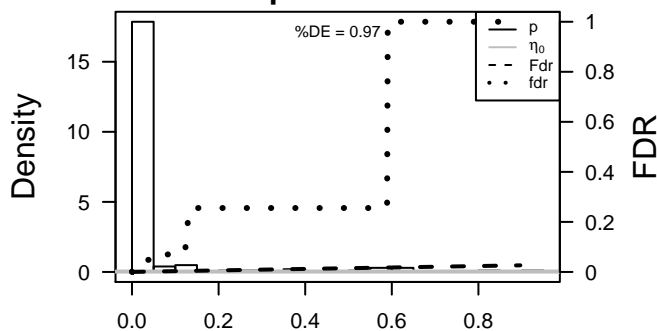
Rank	ID	log(FC)	fdr	p-value	Description
1	144568	2.39	2e-16	2e-17	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	131	1.88	2e-16	2e-17	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	57016	1.42	2e-16	2e-17	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
4	218	1.5	2e-16	2e-17	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
5	239	1.5	2e-16	2e-17	5 x 49 arachidonate 12-lipoxygenase [Source:HGNC Symbol;Acc:4:
6	8424	1.39	2e-16	2e-17	3 x 48 butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma
7	387695	1.75	2e-16	2e-17	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Symt
8	394263	2.21	2e-16	2e-17	3 x 50
9	375791	1.97	2e-16	2e-17	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Symt
10	810	1.33	2e-16	2e-17	1 x 50 calmodulin-like 3 [Source:HGNC Symbol;Acc:1452]
11	1048	1.63	2e-16	2e-17	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
12	1087	1.56	2e-16	2e-17	4 x 50 carcinoembryonic antigen-related cell adhesion molecule 7 [
13	22802	2.35	2e-16	2e-17	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
14	9022	1.84	2e-16	2e-17	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:21
15	84518	2.1	2e-16	2e-17	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
16	54544	2.75	2e-16	2e-17	1 x 50 cysteine-rich C-terminal 1 [Source:HGNC Symbol;Acc:2987:
17	49860	4.02	2e-16	2e-17	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
18	1475	2.02	2e-16	2e-17	1 x 50 cystatin A (stefin A) [Source:HGNC Symbol;Acc:2481]
19	1562	1.93	2e-16	2e-17	1 x 50 cytochrome P450, family 2, subfamily C, polypeptide 18 [Sou
20	92196	1.61	2e-16	2e-17	3 x 50 death associated protein-like 1 [Source:HGNC Symbol;Acc:2

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	59.33	NULL	76 / 135	H.Tiss WIRTH_Mucosa
2	24.41	NULL	15 / 21	CC cornified envelope
3	20.14	NULL	79 / 572	Disease GUDJ_psooriasis up
4	19.63	NULL	20 / 53	BP keratinocyte differentiation
5	19.18	NULL	9 / 19	BP peptide cross-linking
6	19.03	NULL	16 / 42	BP keratinization
7	18.6	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
8	17.56	NULL	8 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
9	16.22	NULL	7 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
10	15.6	NULL	6 / 13	BP negative regulation of peptidase activity
11	13.53	NULL	7 / 38	BP epithelial cell differentiation
12	12.9	NULL	19 / 76	BP epidermis development
13	12.16	NULL	5 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
14	11.67	NULL	6 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
15	10.82	NULL	5 / 21	CC desmosome
16	10.19	NULL	4 / 16	GSEA C2AZAZARD_UV_RESPONSE_CLUSTER_G24
17	9.71	NULL	2 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
18	9.66	NULL	2 / 15	GSEA C2ALONSO_METASTASIS_NEURAL_UP
19	9.38	NULL	13 / 122	MF serine-type endopeptidase activity
20	9.24	NULL	5 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
21	9.06	NULL	52 / 1182	CC extracellular region
22	8.91	NULL	11 / 79	MF serine-type endopeptidase inhibitor activity
23	8.63	NULL	4 / 44	CC keratin filament
24	8.5	NULL	3 / 14	GSEA C2ZHAN_MULTIPLE_MYELOMA_MF_UP
25	8.33	NULL	15 / 186	MF structural molecule activity
26	8.32	NULL	2 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
27	8.1	NULL	4 / 13	H.Tiss WIRTH_Tonsil
28	8.08	NULL	3 / 14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
29	8.02	NULL	4 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
30	7.87	NULL	4 / 23	MF peptidase inhibitor activity
31	7.84	NULL	4 / 15	GSEA C2CHANG_IMMORTALIZED_BY_HPV31_DN
32	7.71	NULL	2 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
33	7.59	NULL	5 / 10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
34	7.44	NULL	1 / 5	GSEA C2FERRARI_RESPONSE_TO_FENRETINIDE_DN
35	7.35	NULL	9 / 52	BP negative regulation of endopeptidase activity
36	7.33	NULL	3 / 12	BP cellular aldehyde metabolic process
37	7.28	NULL	3 / 11	GSEA C2REACTOME_XENOBIOTICS
38	7.27	NULL	6 / 29	BP regulation of proteolysis
39	7.27	NULL	1 / 11	Glio VERHAAK_Brain
40	7.05	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP

p-values



GW_226

Local Summary

%DE = 0.88
 # metagenes = 25
 # genes = 406
 # genes in genesets = 378
 # genes with $fdr < 0.1$ = 299 (1 + / 298 -)
 # genes with $fdr < 0.05$ = 297 (1 + / 296 -)
 # genes with $fdr < 0.01$ = 232 (1 + / 231 -)

$\langle r \rangle$ metagenes = 0.81

$\langle r \rangle$ genes = 0.29

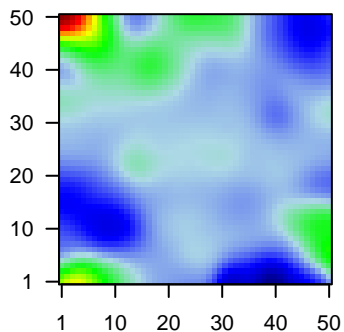
$\langle FC \rangle = -0.52$

$\langle \text{shrinkage-t} \rangle = -18.3$

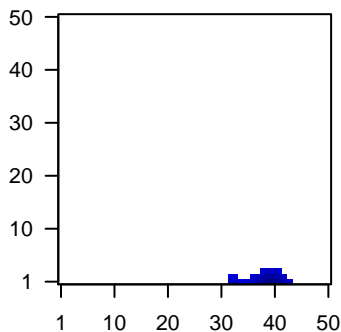
$\langle p\text{-value} \rangle = 0$

$\langle fdr \rangle = 0.38$

Profile



Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	684	-1.81	2e-16	2e-15	32 x 1 bone marrow stromal cell antigen 2 [Source:HGNC Symbol;A
2	3627	-2.12	2e-16	2e-15	32 x 1 chemokine (C-X-C motif) ligand 10 [Source:HGNC Symbol;f
3	10964	-1.46	2e-16	2e-15	32 x 1 interferon-induced protein 44-like [Source:HGNC Symbol;Ac
4	2537	-1.43	2e-16	2e-15	32 x 1 interferon, alpha-inducible protein 6 [Source:HGNC Symbol;f
5	9636	-1.87	2e-16	2e-15	32 x 1 ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:406
6	7453	-1.39	2e-16	2e-15	32 x 1 tryptophanyl-tRNA synthetase [Source:HGNC Symbol;Acc:1:
7	6772	-1.32	2e-15	3e-13	32 x 1 signal transducer and activator of transcription 1, 91kDa [Sou
8	442578	-1.29	8e-15	1e-12	39 x 1
9	10561	-1.26	3e-14	2e-12	32 x 1 interferon-induced protein 44 [Source:HGNC Symbol;Acc:16:
10	399900	-1.14	8e-14	2e-12	39 x 1
11	126205	-1.23	1e-13	2e-12	40 x 1 NLR family, pyrin domain containing 8 [Source:HGNC Symbo
12	9747	-1.13	1e-13	2e-12	39 x 1 family with sequence similarity 115, member A [Source:HGNC
13	91368	-1.12	2e-13	2e-12	39 x 1 CDKN2A interacting protein N-terminal like [Source:HGNC S
14	51191	-1.22	2e-13	6e-12	32 x 1 HECT and RLD domain containing E3 ubiquitin protein ligase
15	115362	-1.21	4e-13	1e-11	32 x 1 guanylate binding protein 5 [Source:HGNC Symbol;Acc:1989
16	729603	-1.09	7e-13	1e-11	40 x 1
17	387700	-1.09	9e-13	5e-11	40 x 1 solute carrier family 16, member 12 [Source:HGNC Symbol;A
18	84061	-1.17	2e-12	1e-10	39 x 1 magnesium transporter 1 [Source:HGNC Symbol;Acc:28880]
19	641737	-1.07	4e-12	2e-10	40 x 1
20	4061	-1.13	1e-11	2e-10	32 x 1 lymphocyte antigen 6 complex, locus E [Source:HGNC Symb

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-34.74	NULL	12 / 16	GSEA C2EINAV_INTERFERON_SIGNATURE_IN_CANCER
2	-33.7	NULL	30 / 51	BP type I interferon signaling pathway
3	-32.36	NULL	12 / 16	GSEA C2MOSEERLE_IFNA_RESPONSE
4	-29.09	NULL	9 / 10	GSEA C2BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
5	-28.54	NULL	12 / 16	GSEA C2ZHANG_INTERFERON_RESPONSE
6	-27.03	NULL	10 / 13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
7	-26.64	NULL	35 / 123	BP defense response to virus
8	-24.9	NULL	6 / 8	GSEA C2ROETH_TERT_TARGETS_UP
9	-24.87	NULL	10 / 16	GSEA C2UROSEVIC_RESPONSE_TO_IMIQUIMOD
10	-24.21	NULL	8 / 11	GSEA C2BENNETT_SYSTEMIC_LUPUS_ERYTHEMATOSUS
11	-23.01	NULL	8 / 10	GSEA C2GRANDVAUX_IFN_RESPONSE_NOT_VIA_IRF3
12	-22.7	NULL	3 / 4	GSEA C2KRASNOSELSKAYA_ILF3_TARGETS_UP
13	-21.98	NULL	14 / 31	BP negative regulation of viral genome replication
14	-21.92	NULL	29 / 109	BP response to virus
15	-21.3	NULL	3 / 5	GSEA C2KIM_LRRC3B_TARGETS
16	-21.03	NULL	6 / 14	GSEA C2RADAEVA_RESPONSE_TO_IFNA1_UP
17	-20.62	NULL	4 / 12	GSEA C2ZHU_CMV_8_HR_UP
18	-20.52	NULL	7 / 16	GSEA C2MAHADEVAN_RESPONSE_TO_MP470_UP
19	-18.97	NULL	36 / 204	BP cytokine-mediated signaling pathway
20	-18.95	NULL	6 / 12	GSEA C2TSAI_DNAJB4_TARGETS_UP
21	-18.29	NULL	5 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
22	-17.82	NULL	7 / 16	GSEA C2XU_HGF_TARGETS_INDUCED_BY_AKT1_6HR
23	-16.62	NULL	18 / 60	BP interferon-gamma-mediated signaling pathway
24	-16.47	NULL	4 / 10	GSEA C2DAUER_STAT3_TARGETS_DN
25	-16.12	NULL	6 / 6	Lymphocyte antigen 6 complex, locus E
26	-16.12	NULL	4 / 15	GSEA C2BECKER_TAMOXIFEN_RESISTANCE_UP
27	-15.84	NULL	4 / 14	GSEA C2TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_UP
28	-15.48	NULL	6 / 14	Glio Donson-immune cell intra signaling-associated with LTS in HGA
29	-15.34	NULL	4 / 16	GSEA C2SEITZ_NEOPLASTIC_TRANSFORMATION_BY_8P_DELETION
30	-15.24	NULL	33 / 274	Lymphocyte antigen 6 complex, locus E
31	-15.01	NULL	4 / 9	GSEA C2DER_IFN_ALPHA_RESPONSE_UP
32	-14.57	NULL	3 / 4	GSEA C2BIOCARTA_CYTOKINE_PATHWAY
33	-14.4	NULL	3 / 4	MMML C2SCIEJ_MMML_47
34	-14.28	NULL	3 / 9	GSEA C2DER_IFN_GAMMA_RESPONSE_UP
35	-14.09	NULL	45 / 572	Disease GUDJ_psooriasis up
36	-14.07	NULL	7 / 10	CC MHC class I protein complex
37	-13.57	NULL	3 / 13	GSEA C2TSAI_RESPONSE_TO_RADIATION_THERAPY
38	-13.49	NULL	8 / 18	BP positive regulation of T cell mediated cytotoxicity
39	-13.21	NULL	4 / 14	GSEA C2TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_UP
40	-12.7	NULL	6 / 14	GSEA C2XU_AKT1_TARGETS_6HR

p-values

