

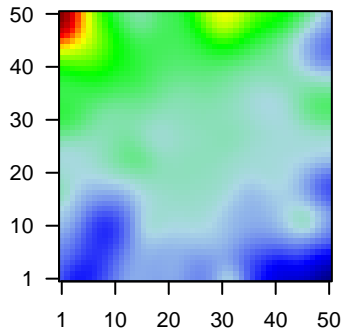
GW_210

Global Summary

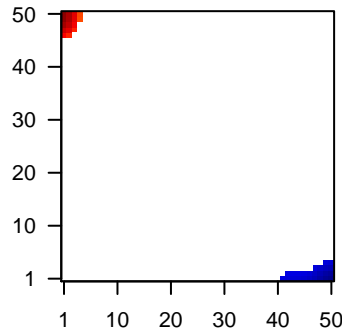
%DE = 0.16
 # genes with $fdr < 0.2$ = 2020 (1122 + / 898 -)
 # genes with $fdr < 0.1$ = 1312 (775 + / 537 -)
 # genes with $fdr < 0.05$ = 1061 (649 + / 412 -)
 # genes with $fdr < 0.01$ = 735 (464 + / 271 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.11
 <fdr> = 0.84

Profile



Regulated Spots



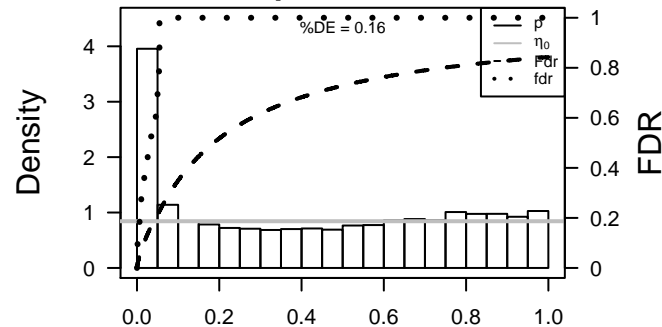
Global Genelist

Rank	ID	log(FC)	fdr p-value	Description Metagene
1	222	1.8	2e-16 4e-14 1 x 49	aldehyde dehydrogenase 3 family, member B2 [Source:HGNC]
2	360	1.35	2e-16 4e-14 1 x 50	aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:63]
3	151516	1.7	2e-16 4e-14 1 x 46	aspartic peptidase, retroviral-like 1 [Source:HGNC Symbol;A]
4	23120	1.31	2e-16 4e-14 1 x 50	ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543]
5	387695	2.47	2e-16 4e-14 1 x 49	chromosome 10 open reading frame 99 [Source:HGNC Synt]
6	375791	1.39	2e-16 4e-14 1 x 50	chromosome 9 open reading frame 169 [Source:HGNC Synt]
7	84290	1.83	2e-16 4e-14 1 x 50	calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
8	131076	1.43	2e-16 4e-14 1 x 16	coiled-coil domain containing 58 [Source:HGNC Symbol;Acc]
9	948	1.84	2e-16 4e-14 6 x 44	CD36 molecule (thrombospondin receptor) [Source:HGNC S]
10	22802	1.69	2e-16 4e-14 1 x 50	chloride channel accessory 4 [Source:HGNC Symbol;Acc:20]
11	9076	1.36	2e-16 4e-14 49 x 50	claudin 1 [Source:HGNC Symbol;Acc:2032]
12	49860	2.28	2e-16 4e-14 1 x 50	cornulin [Source:HGNC Symbol;Acc:1230]
13	1410	1.47	2e-16 4e-14 25 x 1	crystallin, alpha B [Source:HGNC Symbol;Acc:2389]
14	1475	1.7	2e-16 4e-14 1 x 50	cystatin A (steffin A) [Source:HGNC Symbol;Acc:2481]
15	126410	1.62	2e-16 4e-14 1 x 49	cytochrome P450, family 4, subfamily F, polypeptide 22 [Sour
16	92196	1.8	2e-16 4e-14 3 x 50	death associated protein-like 1 [Source:HGNC Symbol;Acc:2]
17	1673	1.43	2e-16 4e-14 1 x 49	defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
18	93099	1.35	2e-16 4e-14 1 x 47	dermokine [Source:HGNC Symbol;Acc:25063]
19	1776	1.62	2e-16 4e-14 48 x 12	deoxyribonuclease I-like 3 [Source:HGNC Symbol;Acc:2959]
20	1809	-1.56	2e-16 4e-14 6 x 1	dihydropyrimidinase-like 3 [Source:HGNC Symbol;Acc:3015]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	25.82	NULL	135	H.Tiss WIRTH_Mucosa
2	23.1	NULL	572	Disease GUDJ_psooriasis up
3	16.5	NULL	21	CC cornified envelope
4	15.98	NULL	53	BP keratinocyte differentiation
5	15.23	NULL	42	BP keratinization
6	12.88	NULL	957	Chr Chr 11
7	10.52	NULL	76	BP epidermis development
8	9.79	NULL	16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
9	9.26	NULL	19	BP peptide cross-linking
10	8.59	NULL	16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
11	8.36	NULL	44	CC keratin filament
12	8.31	NULL	15	GSEA C2NIKOLSKY_BREAST_CANCER_8P12_P11_AMPLICON
13	8.25	NULL	699	Chr Chr 5
14	8.07	NULL	15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
15	7.53	NULL	16	GSEA C2JAEGGER_METASTASIS_DN
16	7.39	NULL	4	MMML C6ACIEJ_MMML 23
17	7.38	NULL	1318	CC mitochondrion
18	7.32	NULL	16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCIOMA_DN
19	6.9	NULL	10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
20	6.86	NULL	21	CC desmosome
<i>Underexpressed</i>				
1	-10.24	NULL	417	H.Tiss WIRTH_Immune system
2	-10.21	NULL	918	Chr Chr 17
3	-9.01	NULL	15	CC MHC class II protein complex
4	-8.67	NULL	553	Cancer Lembecke_Colonc Inflammation
5	-7.93	NULL	386	Chr Chr 22
6	-7.91	NULL	250	LymphomaENZ_Stromal signature 1
7	-7.85	NULL	162	CC external side of plasma membrane
8	-7.29	NULL	265	Glio willscher_GBM_Verhaak-CL_expression_B_up
9	-7.29	NULL	265	Glio willscher_GBM_Verhaak-MES_expression_B_up
10	-7.29	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
11	-7.29	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
12	-6.87	NULL	8023	MF protein binding
13	-6.77	NULL	60	BP T cell costimulation
14	-6.46	NULL	403	BP cell adhesion
15	-6.11	NULL	312	BP immune response
16	-5.99	NULL	47	BP antigen processing and presentation
17	-5.93	NULL	743	Chr Chr 7
18	-5.87	NULL	190	CC extracellular matrix
19	-5.84	NULL	36	BP muscle filament sliding
20	-5.8	NULL	1167	BP signal transduction

p-values



GW_210

Local Summary

%DE = 0.93
 # metagenes = 16
 # genes = 227
 # genes in genesets = 221

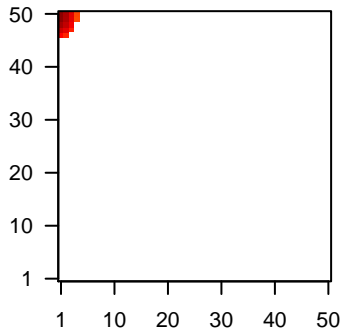
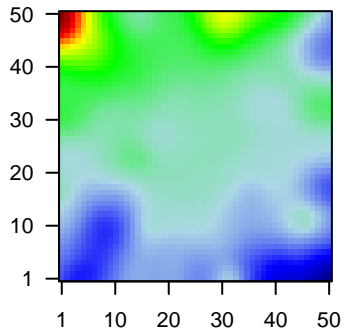
genes with $fdr < 0.1 = 194$ (192 + / 2 -)
 # genes with $fdr < 0.05 = 188$ (186 + / 2 -)
 # genes with $fdr < 0.01 = 169$ (169 + / 0 -)

$\langle r \rangle$ metagenes = 0.96
 $\langle r \rangle$ genes = 0.45

$\langle FC \rangle = 0.93$
 $\langle \text{shrinkage-t} \rangle = 32.75$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.19$

Profile

Spot



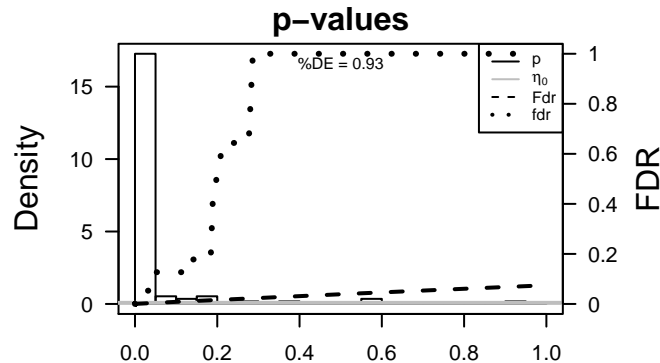
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	222	1.8	2e-16	6e-17	1 x 49 aldehyde dehydrogenase 3 family, member B2 [Source:HGNC]
2	360	1.35	2e-16	6e-17	1 x 50 aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:63]
3	151516	1.7	2e-16	6e-17	1 x 46 aspartic peptidase, retroviral-like 1 [Source:HGNC Symbol;A]
4	23120	1.31	2e-16	6e-17	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543]
5	387695	2.47	2e-16	6e-17	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt]
6	375791	1.39	2e-16	6e-17	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt]
7	84290	1.83	2e-16	6e-17	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
8	22802	1.69	2e-16	6e-17	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20]
9	49860	2.28	2e-16	6e-17	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
10	1475	1.7	2e-16	6e-17	1 x 50 cystatin A (stefin A) [Source:HGNC Symbol;Acc:2481]
11	126410	1.62	2e-16	6e-17	1 x 49 cytochrome P450, family 4, subfamily F, polypeptide 22 [Sour]
12	92196	1.8	2e-16	6e-17	3 x 50 death associated protein-like 1 [Source:HGNC Symbol;Acc:2]
13	1673	1.43	2e-16	6e-17	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
14	93099	1.35	2e-16	6e-17	1 x 47 dermokine [Source:HGNC Symbol;Acc:25063]
15	1828	2.91	2e-16	6e-17	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
16	9982	1.32	2e-16	6e-17	1 x 47 fibroblast growth factor binding protein 1 [Source:HGNC Syml]
17	80157	1.69	2e-16	6e-17	1 x 48 cell wall biogenesis 43 C-terminal homolog (S. cerevisiae) [S]
18	2706	1.47	2e-16	6e-17	1 x 47 gap junction protein, beta 2, 26kDa [Source:HGNC Symbol;A]
19	10804	1.78	2e-16	6e-17	1 x 47 gap junction protein, beta 6, 30kDa [Source:HGNC Symbol;A]
20	56300	1.32	2e-16	6e-17	1 x 47 interleukin 36, gamma [Source:HGNC Symbol;Acc:15741]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	53.76	NULL	86 / 135	H.Tiss WIRTH_Mucosa
2	39.92	NULL	18 / 21	CC cornified envelope
3	33.87	NULL	23 / 53	BP keratinocyte differentiation
4	29.48	NULL	19 / 42	BP keratinization
5	28.84	NULL	93 / 572	Disease GUDJ_psooriasis up
6	25.04	NULL	24 / 76	BP epidermis development
7	22.65	NULL	10 / 19	BP peptide cross-linking
8	19.25	NULL	6 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
9	18.34	NULL	3 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
10	17.39	NULL	2 / 8	GSEA C2JU_CDX2_TARGETS_DN
11	16.85	NULL	6 / 13	BP negative regulation of peptidase activity
12	15.94	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
13	15.05	NULL	5 / 10	MF RAGE receptor binding
14	14.92	NULL	3 / 11	GSEA C2MURAKAMI_UV_RESPONSE_24HR
15	14.52	NULL	9 / 44	CC keratin filament
16	13.82	NULL	20 / 186	MF structural molecule activity
17	13.19	NULL	7 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
18	13.12	NULL	9 / 21	CC desmosome
19	13.07	NULL	13 / 82	CC intermediate filament
20	12.79	NULL	5 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATEL
21	12.26	NULL	4 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
22	12.01	NULL	7 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
23	11.81	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
24	11.76	NULL	6 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
25	10.91	NULL	3 / 11	GSEA C2MURAKAMI_UV_RESPONSE_6HR_DN
26	10.88	NULL	13 / 79	MF serine-type endopeptidase inhibitor activity
27	10.66	NULL	10 / 52	BP negative regulation of endopeptidase activity
28	10.52	NULL	3 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
29	10.06	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
30	10.03	NULL	55 / 1182	CC extracellular region
31	9.9	NULL	4 / 16	GSEA C2JAEGER_METASTASIS_DN
32	9.88	NULL	4 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
33	9.8	NULL	8 / 38	BP epithelial cell differentiation
34	9.76	NULL	3 / 13	GSEA C2FARMER_BREAST_CANCER_APOCRINE_VS_LUMINAL
35	9.74	NULL	7 / 29	BP regulation of proteolysis
36	9.52	NULL	5 / 58	Glio Christensen_hypomethylated_in_secondary_glioblastoma
37	9.44	NULL	3 / 10	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_UP
38	9.19	NULL	4 / 15	GSEA C2ZHANG_IMMORTALIZED_BY_HP31_DN
39	9.09	NULL	5 / 16	GSEA C2COLDREN_GEFITINIB_RESISTANCE_DN
40	9.02	NULL	3 / 10	GSEA C2NIKOLSKY_BREAST_CANCER_20Q12_Q13_AMPLICON



GW_210

Local Summary

%DE = 0.88
 # metagenes = 25
 # genes = 378
 # genes in genesets = 373

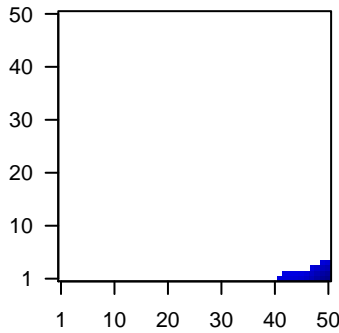
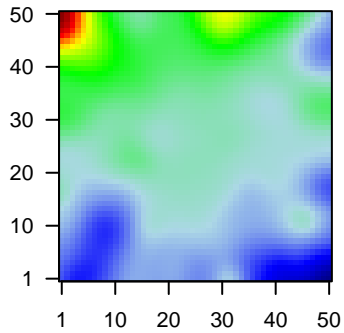
genes with $fdr < 0.1 = 294$ (8 + / 286 -)
 # genes with $fdr < 0.05 = 278$ (8 + / 270 -)
 # genes with $fdr < 0.01 = 196$ (5 + / 191 -)

<r> metagenes = 0.92
 <r> genes = 0.49

<FC> = -0.44
 <shrinkage-t> = -15.37
 <p-value> = 0
 <fdr> = 0.37

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	3128	-1.58	2e-16	5e-15	50 x 1 major histocompatibility complex, class II, DR beta 6 (pseudo)
2	10537	-1.44	2e-16	5e-15	50 x 1 ubiquitin D [Source:HGNC Symbol;Acc:18795]
3	3120	-1.27	2e-15	5e-14	47 x 1 major histocompatibility complex, class II, DQ beta 2 [Source:
4	4283	-1.27	2e-15	6e-12	49 x 1 chemokine (C-X-C motif) ligand 9 [Source:HGNC Symbol;Ac
5	23466	-1.19	1e-13	1e-11	41 x 1 chromobox homolog 6 [Source:HGNC Symbol;Acc:1556]
6	3123	-1.16	5e-13	1e-11	45 x 1 major histocompatibility complex, class II, DR beta 1 [Source:
7	3620	-1.16	5e-13	5e-11	48 x 1 indoleamine 2,3-dioxygenase 1 [Source:HGNC Symbol;Acc:f
8	10563	-1.13	2e-12	1e-10	50 x 1 chemokine (C-X-C motif) ligand 13 [Source:HGNC Symbol;f
9	6376	-1.11	4e-12	5e-10	44 x 1 chemokine (C-X3-C motif) ligand 1 [Source:HGNC Symbol;f
10	348	-1.07	3e-11	5e-10	50 x 1 apolipoprotein E [Source:HGNC Symbol;Acc:613]
11	6363	-1.06	3e-11	5e-10	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc
12	3689	-1.06	4e-11	2e-09	50 x 1 integrin, beta 2 (complement component 3 receptor 3 and 4 s
13	341	-1.05	7e-11	4e-09	50 x 1 apolipoprotein C-I [Source:HGNC Symbol;Acc:607]
14	713	-1.02	2e-10	4e-09	50 x 1 complement component 1, q subcomponent, B chain [Source
15	6364	1.02	2e-10	8e-09	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc
16	23643	0.99	7e-10	8e-09	50 x 3 lymphocyte antigen 96 [Source:HGNC Symbol;Acc:17156]
17	22809	-0.99	7e-10	8e-09	44 x 1 activating transcription factor 5 [Source:HGNC Symbol;Acc:7f
18	9806	-0.99	8e-10	1e-08	50 x 1 sparco/osteonectin, cwcv and kazal-like domains proteoglycar
19	3127	-0.97	1e-09	1e-08	43 x 1 major histocompatibility complex, class II, DR beta 5 [Source:
20	972	-0.97	2e-09	1e-08	50 x 1 CD74 molecule, major histocompatibility complex, class II inv.

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-34.48	NULL	14 / 15	CC MHC class II protein complex
2	-26.51	NULL	101 / 417	H.Tiss WIRTH_Immune system
3	-21.45	NULL	3 / 3	MMML C69CIEJ_MMML 7
4	-21.34	NULL	59 / 312	BP immune response
5	-20.84	NULL	17 / 47	BP antigen processing and presentation
6	-20.5	NULL	9 / 21	CC clathrin-coated endocytic vesicle membrane
7	-19.92	NULL	102 / 553	Cancer Lembecke_Colonc Inflammation
8	-19.5	NULL	9 / 23	CC integral to luminal side of endoplasmic reticulum membrane
9	-17.63	NULL	7 / 15	GSEA C2FINAK_BREAST_CANCER_SDPD_SIGNATURE
10	-17.49	NULL	9 / 28	CC transport vesicle membrane
11	-17.11	NULL	18 / 60	BP T cell costimulation
12	-16.54	NULL	7 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
13	-16.49	NULL	10 / 35	CC trans-Golgi network membrane
14	-16.24	NULL	9 / 32	CC ER to Golgi transport vesicle membrane
15	-15.1	NULL	6 / 15	Glio Donson-chemokines/cytokines-associated with LTS in HGA
16	-15.07	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
17	-14.48	NULL	5 / 12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN
18	-14.45	NULL	5 / 11	GSEA C2APPEL_IMATINIB_RESPONSE
19	-14.31	NULL	10 / 46	CC endocytic vesicle membrane
20	-14.25	NULL	16 / 87	BP antigen processing and presentation of exogenous peptide antigen
21	-14.11	NULL	6 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
22	-13.54	NULL	6 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
23	-13.44	NULL	18 / 84	BP T cell receptor signaling pathway
24	-13.4	NULL	14 / 60	BP interferon-gamma-mediated signaling pathway
25	-13.1	NULL	26 / 162	CC external side of plasma membrane
26	-12.95	NULL	5 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
27	-12.94	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
28	-12.87	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
29	-12.85	NULL	45 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
30	-12.85	NULL	45 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
31	-12.85	NULL	45 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
32	-12.85	NULL	45 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
33	-12.73	NULL	9 / 52	Chr HSCR6_MHC_QBL
34	-12.35	NULL	4 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_
35	-12.22	NULL	2 / 4	MMML C69CIEJ_MMML 2
36	-12.01	NULL	7 / 13	Cancer GENTLES_modul18
37	-11.91	NULL	5 / 13	GSEA C2HAHTOLA_CTL_PATHOGENESIS
38	-11.82	NULL	5 / 16	GSEA C2FERRANDO_TAL1_NEIGHBORS
39	-11.53	NULL	4 / 7	Glio Donson-cytotoxic effectors-associated with LTS in HGA
40	-11.34	NULL	18 / 74	BP regulation of immune response

