

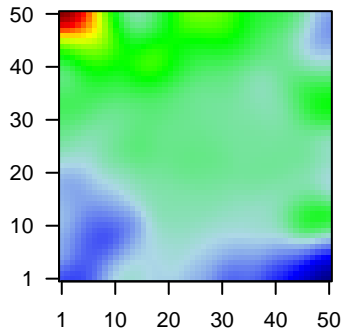
GW_120

Global Summary

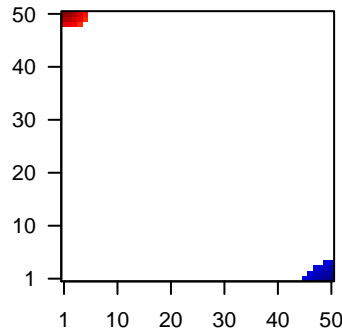
%DE = 0.12
 # genes with fdr < 0.2 = 1497 (770 + / 727 -)
 # genes with fdr < 0.1 = 1126 (584 + / 542 -)
 # genes with fdr < 0.05 = 967 (516 + / 451 -)
 # genes with fdr < 0.01 = 711 (410 + / 301 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.12
 <fdr> = 0.88

Profile



Regulated Spots



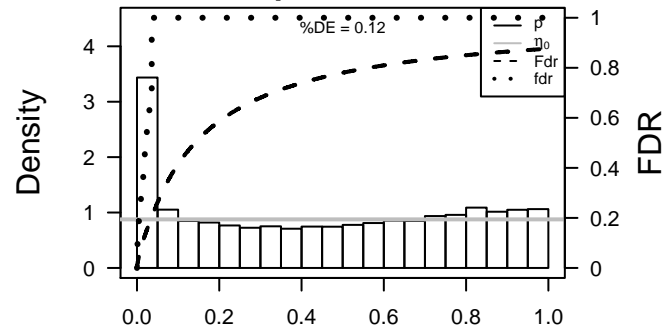
Global Genelist

Rank	ID	log(FC)	fdr p-value	Description Metagene
1	144568	2.11	2e-16 4e-14 1 x 50	alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	131	1.61	2e-16 4e-14 1 x 50	alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	83543	1.58	2e-16 4e-14 5 x 50	allograft inflammatory factor 1-like [Source:HGNC Symbol;Ac
4	218	1.73	2e-16 4e-14 1 x 50	aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
5	387695	1.66	2e-16 4e-14 1 x 49	chromosome 10 open reading frame 99 [Source:HGNC Synt
6	394263	2.26	2e-16 4e-14 3 x 50	
7	29923	1.55	2e-16 4e-14 4 x 44	hypoxia inducible lipid droplet-associated [Source:HGNC Syr
8	375791	2.2	2e-16 4e-14 1 x 50	chromosome 9 open reading frame 169 [Source:HGNC Synt
9	793	1.74	2e-16 4e-14 39 x 50	calbindin 1, 28kDa [Source:HGNC Symbol;Acc:1434]
10	57172	-1.79	2e-16 4e-14 49 x 1	calcium/calmodulin-dependent protein kinase IG [Source:HG
11	84290	1.44	2e-16 4e-14 1 x 50	calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
12	6364	-1.52	2e-16 4e-14 46 x 1	chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc
13	894	1.55	2e-16 4e-14 50 x 4	cyclin D2 [Source:HGNC Symbol;Acc:1583]
14	1041	1.62	2e-16 4e-14 1 x 46	corneodesmosin [Source:HGNC Symbol;Acc:1802]
15	1048	1.61	2e-16 4e-14 2 x 50	carcinoembryonic antigen-related cell adhesion molecule 5 [
16	4680	1.6	2e-16 4e-14 1 x 50	carcinoembryonic antigen-related cell adhesion molecule 6 (i
17	1087	1.52	2e-16 4e-14 4 x 50	carcinoembryonic antigen-related cell adhesion molecule 7 [
18	22802	3.18	2e-16 4e-14 1 x 50	chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
19	9022	2.01	2e-16 4e-14 1 x 50	chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2
20	84518	1.75	2e-16 4e-14 1 x 50	cornifelin [Source:HGNC Symbol;Acc:30183]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	33.37	NULL	135	H.Tiss WIRTH_Mucosa
2	13.74	NULL	21	CC cornified envelope
3	12.73	NULL	572	Disease GUDJ_poriasis up
4	11.89	NULL	53	BP keratinocyte differentiation
5	10.74	NULL	16	GSEA C2CROMER_TUMORIGENESIS_DN
6	9.69	NULL	19	BP peptide cross-linking
7	9.55	NULL	76	BP epidermis development
8	8.94	NULL	15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
9	8.77	NULL	618	Chr Chr 4
10	8.77	NULL	42	BP keratinization
11	8.46	NULL	16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
12	7.41	NULL	13	BP negative regulation of peptidase activity
13	7.24	NULL	15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
14	6.83	NULL	280	Chr Chr 13
15	6.68	NULL	10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
16	6.64	NULL	38	BP epithelial cell differentiation
17	6.54	NULL	16	GSEA C2COLDREN_GEFITINIB_RESISTANCE_DN
18	6.11	NULL	21	CC desmosome
19	5.79	NULL	13	H.Tiss WIRTH_Tonsil
20	5.69	NULL	318	miRNA target chr13:590-3p
<i>Underexpressed</i>				
1	-14.48	NULL	553	Cancer Lemcke_Colonc Inflammation
2	-12.66	NULL	312	BP immune response
3	-10.19	NULL	417	H.Tiss WIRTH_Immune system
4	-9.08	NULL	15	CC MHC class II protein complex
5	-8.86	NULL	386	Chr Chr 22
6	-8.3	NULL	918	Chr Chr 17
7	-7.77	NULL	265	Glio willscher_GBM_Verhaak-CL_expression_B_up
8	-7.77	NULL	265	Glio willscher_GBM_Verhaak-MES_expression_B_up
9	-7.77	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
10	-7.77	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
11	-7.66	NULL	8	GSEA C2RUNNE_GENDER_EFFECT_UP
12	-7.53	NULL	47	BP antigen processing and presentation
13	-7.27	NULL	7	MMML C6CIEJ_MMML 5
14	-7.11	NULL	683	CC extracellular space
15	-6.88	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
16	-6.81	NULL	403	BP cell adhesion
17	-6.79	NULL	43	MF chemokine activity
18	-6.76	NULL	162	CC external side of plasma membrane
19	-6.68	NULL	250	LymphocyteENZ_Stromal signature 1
20	-6.63	NULL	60	BP T cell costimulation

p-values



GW_120

Local Summary

%DE = 0.94
 # metagenes = 14
 # genes = 205
 # genes in genesets = 201

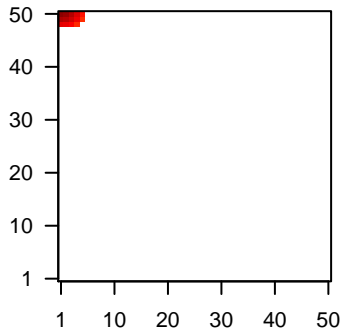
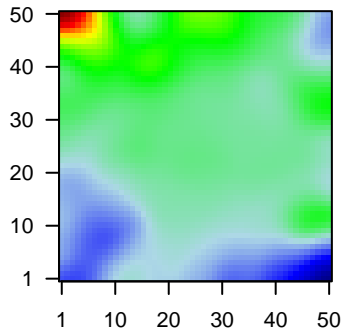
genes with $fdr < 0.1$ = 187 (179 + / 8 -)
 # genes with $fdr < 0.05$ = 185 (178 + / 7 -)
 # genes with $fdr < 0.01$ = 182 (175 + / 7 -)

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

<FC> = 1.08
 <shrinkage-t> = 38.14
 <p-value> = 0
 <fdr> = 0.11

Profile

Spot



Local Genelist

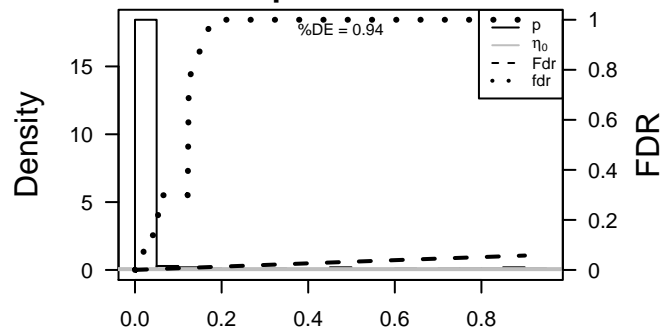
Rank	ID	log(FC)	fdr	p-value	Description
1	144568	2.11	2e-16	5e-17	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	131	1.61	2e-16	5e-17	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	83543	1.58	2e-16	5e-17	5 x 50 allograft inflammatory factor 1-like [Source:HGNC Symbol;Ac
4	218	1.73	2e-16	5e-17	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
5	387695	1.66	2e-16	5e-17	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Symt
6	394263	2.26	2e-16	5e-17	3 x 50
7	375791	2.2	2e-16	5e-17	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Symt
8	84290	1.44	2e-16	5e-17	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
9	1048	1.61	2e-16	5e-17	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
10	4680	1.6	2e-16	5e-17	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (
11	1087	1.52	2e-16	5e-17	4 x 50 carcinoembryonic antigen-related cell adhesion molecule 7 [
12	22802	3.18	2e-16	5e-17	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
13	9022	2.01	2e-16	5e-17	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2
14	84518	1.75	2e-16	5e-17	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
15	54544	1.97	2e-16	5e-17	1 x 50 cysteine-rich C-terminal 1 [Source:HGNC Symbol;Acc:2987
16	49860	3.79	2e-16	5e-17	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
17	1475	1.81	2e-16	5e-17	1 x 50 cystatin A (stefin A) [Source:HGNC Symbol;Acc:2481]
18	1577	1.62	2e-16	5e-17	4 x 50 cytochrome P450, family 3, subfamily A, polypeptide 5 [Sourc
19	1673	-1.45	2e-16	5e-17	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
20	26298	1.58	2e-16	5e-17	4 x 50 ets homologous factor [Source:HGNC Symbol;Acc:3246]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	60.47	NULL	76 / 135	H.Tiss WIRTH_Mucosa
2	27.14	NULL	15 / 21	CC cornified envelope
3	22.08	NULL	20 / 53	BP keratinocyte differentiation
4	21.76	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
5	20.47	NULL	16 / 42	BP keratinization
6	20.42	NULL	9 / 19	BP peptide cross-linking
7	20.31	NULL	6 / 13	BP negative regulation of peptidase activity
8	19.81	NULL	79 / 572	Disease GUDJ_psooriasis up
9	17.05	NULL	8 / 15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
10	16.74	NULL	7 / 15	GSEA C2HINATA_NFKB_TARGETS KERATINOCYTE_DN
11	15.41	NULL	19 / 76	BP epidermis development
12	14.74	NULL	7 / 38	BP epithelial cell differentiation
13	14.29	NULL	5 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
14	13.16	NULL	6 / 29	BP regulation of proteolysis
15	12.23	NULL	11 / 79	MF serine-type endopeptidase inhibitor activity
16	11.55	NULL	6 / 16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
17	11.23	NULL	5 / 10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
18	10.35	NULL	2 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
19	10.09	NULL	9 / 52	BP negative regulation of endopeptidase activity
20	9.58	NULL	2 / 15	GSEA C2ALONSO_METASTASIS_NEURAL_UP
21	9.14	NULL	4 / 13	H.Tiss WIRTH_Tonsil
22	8.99	NULL	5 / 21	CC desmosome
23	8.67	NULL	15 / 186	MF structural molecule activity
24	8.58	NULL	3 / 12	BP cellular aldehyde metabolic process
25	8.46	NULL	3 / 11	GSEA C2REACTOME_XENOBIOTICS
26	8.46	NULL	3 / 14	GSEA C2KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP
27	8.45	NULL	13 / 122	MF serine-type endopeptidase activity
28	8.44	NULL	3 / 11	GSEA C2KEGG_DRUG_METABOLISM_CYTOCHROME_P450
29	8.28	NULL	52 / 1182	CC extracellular region
30	8.07	NULL	4 / 16	GSEA C2AZARD_UV_RESPONSE_CLUSTER_G24
31	7.88	NULL	5 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
32	7.88	NULL	2 / 16	BP negative regulation of proteolysis
33	7.63	NULL	3 / 13	GSEA C2KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME
34	7.57	NULL	6 / 82	CC intermediate filament
35	7.56	NULL	4 / 44	CC keratin filament
36	7.49	NULL	3 / 16	GSEA C2OLDREN_GEFITINIB_RESISTANCE_DN
37	7.43	NULL	5 / 10	MF RAGE receptor binding
38	7.38	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP
39	7.28	NULL	11 / 201	CC apical plasma membrane
40	7.14	NULL	2 / 9	GSEA C2REACTOME_CYTOCHROME_P450_ARRANGED_BY_SUBSTRA

p-values



GW_120

Local Summary

%DE = 0.93
 # metagenes = 17
 # genes = 281
 # genes in genesets = 278

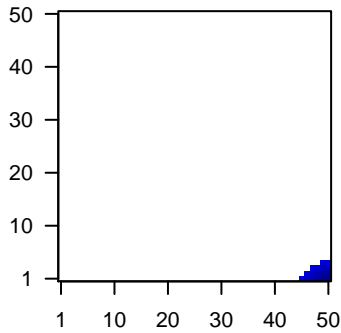
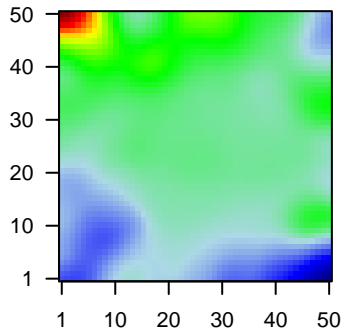
genes with $fdr < 0.1$ = 253 (3 + / 250 -)
 # genes with $fdr < 0.05$ = 241 (3 + / 238 -)
 # genes with $fdr < 0.01$ = 205 (2 + / 203 -)

<r> metagenes = 0.99
 <r> genes = 0.58

<FC> = -0.59
 <shrinkage-t> = -20.78
 <p-value> = 0
 <fdr> = 0.31

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	57172	-1.79	2e-16	5e-16	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HGNC Symbol;Acc:13880]
2	6364	-1.52	2e-16	5e-16	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc:13880]
3	894	1.55	2e-16	5e-16	50 x 4 cyclin D2 [Source:HGNC Symbol;Acc:1583]
4	51755	-1.52	2e-16	5e-16	49 x 1 cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:242]
5	54855	-1.44	2e-16	5e-16	49 x 1 family with sequence similarity 46, member C [Source:HGNC Symbol;Acc:13880]
6	3512	-1.7	2e-16	5e-16	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglobulin J [Source:HGNC Symbol;Acc:13880]
7	3543	-2.95	2e-16	5e-16	49 x 1 immunoglobulin lambda-like polypeptide 1 [Source:HGNC Symbol;Acc:13880]
8	7351	-1.55	2e-16	5e-16	50 x 1 uncoupling protein 2 (mitochondrial, proton carrier) [Source:HGNC Symbol;Acc:13880]
9	3113	-1.33	5e-14	4e-13	50 x 1 major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:13880]
10	3059	-1.32	6e-14	4e-13	50 x 1 hematopoietic cell-specific Lyn substrate 1 [Source:HGNC Symbol;Acc:13880]
11	864	-1.32	7e-14	6e-13	46 x 1 runt-related transcription factor 3 [Source:HGNC Symbol;Acc:13880]
12	64005	1.31	1e-13	8e-13	49 x 4 myosin IG [Source:HGNC Symbol;Acc:13880]
13	972	-1.3	2e-13	8e-13	50 x 1 CD74 molecule, major histocompatibility complex, class II invariant chain [Source:HGNC Symbol;Acc:13880]
14	3122	-1.21	2e-13	2e-10	50 x 1 major histocompatibility complex, class II, DR alpha [Source:HGNC Symbol;Acc:13880]
15	11040	-1.19	1e-11	4e-10	49 x 1 pim-2 oncogene [Source:HGNC Symbol;Acc:8987]
16	1512	-1.16	4e-11	4e-10	47 x 1 cathepsin H [Source:HGNC Symbol;Acc:2535]
17	23643	-1.15	6e-11	7e-10	50 x 3 lymphocyte antigen 96 [Source:HGNC Symbol;Acc:17156]
18	915	-1.14	9e-11	7e-10	49 x 1 CD3d molecule, delta (CD3-TCR complex) [Source:HGNC Symbol;Acc:13880]
19	6363	-1.13	1e-10	2e-09	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc:13880]
20	241	-1.12	2e-10	2e-09	50 x 1 arachidonate 5-lipoxygenase-activating protein [Source:HGNC Symbol;Acc:13880]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-31.55	NULL	13 / 15	CC MHC class II protein complex
2	-29	NULL	92 / 417	H.Tiss WIRTH_Immune system
3	-22.41	NULL	95 / 553	Cancer Lembcke_Colonc Inflammation
4	-21.99	NULL	54 / 312	BP immune response
5	-20.33	NULL	16 / 47	BP antigen processing and presentation
6	-19.32	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
7	-19.04	NULL	6 / 8	CC Donson-migration tethering and rolling-associated with LTS in HG
8	-18.04	NULL	7 / 15	GSEA C2FINAK_BREAST_CANCER_SDDP_SIGNATURE
9	-17.04	NULL	7 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
10	-16.81	NULL	17 / 60	BP T cell costimulation
11	-16.36	NULL	43 / 265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
12	-16.36	NULL	43 / 265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
13	-16.36	NULL	43 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
14	-16.36	NULL	43 / 265	Glio wilscher_GBM_Verhaak-PNmut_expression_B_down
15	-16.3	NULL	4 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN
16	-16.24	NULL	8 / 21	CC clathrin-coated endocytic vesicle membrane
17	-16.08	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
18	-16.04	NULL	3 / 3	MMML C6SCIEJ_MMML 7
19	-15.67	NULL	6 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
20	-15.43	NULL	8 / 23	CC integral to luminal side of endoplasmic reticulum membrane
21	-15.42	NULL	1 / 6	H.Tiss WIRTH_Bone marrow
22	-15.23	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
23	-15.03	NULL	3 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
24	-14.75	NULL	6 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
25	-14.6	NULL	4 / 8	GSEA C2NIELSEN_SYNOVIAL_SARCOMA_DN
26	-13.81	NULL	8 / 28	CC transport vesicle membrane
27	-13.73	NULL	5 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
28	-13.12	NULL	2 / 4	MMML C6SCIEJ_MMML 2
29	-13.07	NULL	9 / 35	CC trans-Golgi network membrane
30	-12.89	NULL	18 / 74	BP regulation of immune response
31	-12.89	NULL	17 / 84	BP T cell receptor signaling pathway
32	-12.84	NULL	5 / 17	BP positive regulation of neutrophil chemotaxis
33	-12.8	NULL	8 / 32	CC ER to Golgi transport vesicle membrane
34	-12.67	NULL	5 / 12	BP immunoglobulin mediated immune response
35	-12.56	NULL	2 / 6	GSEA C2LUI_THYROID_CANCER_CLUSTER_4
36	-12.55	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
37	-12.5	NULL	5 / 12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN
38	-12.39	NULL	2 / 12	GSEA C2MCCABE_HOXC6_TARGETS_CANCER_UP
39	-12.18	NULL	4 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_ACCEPTED
40	-12.16	NULL	14 / 87	BP antigen processing and presentation of exogenous peptide antigen

