

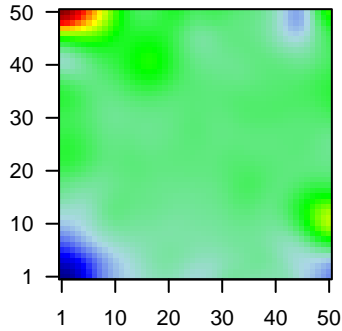
GW_202

Global Summary

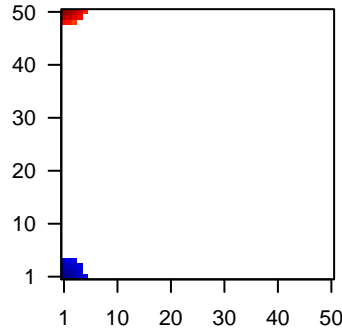
%DE = 0.13
 # genes with fdr < 0.2 = 1709 (953 + / 756 -)
 # genes with fdr < 0.1 = 1353 (788 + / 565 -)
 # genes with fdr < 0.05 = 1240 (723 + / 517 -)
 # genes with fdr < 0.01 = 859 (521 + / 338 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.09
 <fdr> = 0.87

Profile



Regulated Spots



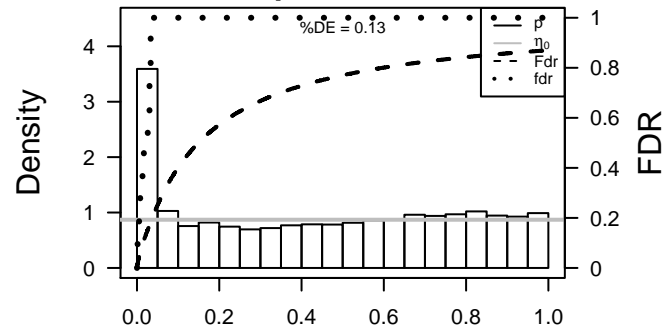
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	1.65	2e-16	2e-14	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	59	-1.27	2e-16	2e-14	3 x 1 actin, alpha 2, smooth muscle, aorta [Source:HGNC Symbol;
3	131	1.9	2e-16	2e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
4	10551	1.4	2e-16	2e-14	50 x 10 anterior gradient 2 [Source:HGNC Symbol;Acc:328]
5	57016	1.58	2e-16	2e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
6	1109	2.02	2e-16	2e-14	13 x 50 aldo-keto reductase family 1, member C4 [Source:HGNC Sy
7	218	1.51	2e-16	2e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
8	55107	-1.71	2e-16	2e-14	1 x 5 anoctamin 1, calcium activated chloride channel [Source:HG
9	151516	2.04	2e-16	2e-14	1 x 46 aspartic peptidase, retroviral-like 1 [Source:HGNC Symbol;A
10	23120	1.38	2e-16	2e-14	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543
11	344905	2.07	2e-16	2e-14	50 x 50 ATPase type 13A5 [Source:HGNC Symbol;Acc:31789]
12	8424	1.3	2e-16	2e-14	3 x 48 butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma
13	205428	1.24	2e-16	2e-14	50 x 50 chromosome 3 open reading frame 58 [Source:HGNC Symbc
14	394263	1.77	2e-16	2e-14	3 x 50
15	352999	2.52	2e-16	2e-14	50 x 10 chromosome 6 open reading frame 58 [Source:HGNC Symbc
16	375791	2.06	2e-16	2e-14	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Symt
17	760	1.9	2e-16	2e-14	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
18	51806	2.17	2e-16	2e-14	4 x 50 calmodulin-like 5 [Source:HGNC Symbol;Acc:18180]
19	6364	-1.95	2e-16	2e-14	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc
20	1009	-1.24	2e-16	2e-14	3 x 1 cadherin 11, type 2, OB-cadherin (osteoblast) [Source:HGNC

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	29.32	NULL	135	H.Tiss WIRTH_Mucosa
2	18.66	NULL	21	CC cornified envelope
3	14.41	NULL	53	BP keratinocyte differentiation
4	12.65	NULL	42	BP keratinization
5	10.58	NULL	76	BP epidermis development
6	9.7	NULL	572	Disease GUDJ_psooriasis up
7	9.68	NULL	16	GSEA C2CROMER_TUMORIGENESIS_DN
8	8.82	NULL	19	BP peptide cross-linking
9	8.65	NULL	15	GSEA C2CRICKMAN_HEAD_AND_NECK_CANCER_E
10	8.32	NULL	16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
11	7.52	NULL	15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
12	7.42	NULL	15	GSEA C2LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
13	7.27	NULL	119	BP xenobiotic metabolic process
14	7.01	NULL	1720	Chr Chr 1
15	6.9	NULL	618	Chr Chr 4
16	6.49	NULL	13	GSEA C2WONG_ENDMETRIUM_CANCER_UP
17	6.48	NULL	13	BP cellular response to cadmium ion
18	6.47	NULL	16	GSEA C2ROY_WOUND_BLOOD_VESSEL_DN
19	6.29	NULL	17	Disease BCHETNIA_EBM up
20	6.2	NULL	15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
<i>Underexpressed</i>				
1	-16.36	NULL	250	LymphomaENZ_Stromal signature 1
2	-15.38	NULL	242	BP extracellular matrix organization
3	-14.92	NULL	190	CC extracellular matrix
4	-14.48	NULL	69	BP extracellular matrix disassembly
5	-14	NULL	11	MF platelet-derived growth factor binding
6	-13.68	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
7	-12.99	NULL	64	BP collagen catabolic process
8	-12.53	NULL	265	Glio willscher_GBM_Verhaak-CL_expression_B_up
9	-12.53	NULL	265	Glio willscher_GBM_Verhaak-MES_expression_B_up
10	-12.53	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
11	-12.53	NULL	265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
12	-12.09	NULL	15	GSEA C2CROMER_TUMORIGENESIS_UP
13	-12.01	NULL	553	Cancer Lembecke_Colonc Inflammation
14	-11.97	NULL	12	miRNA target-29c
15	-11.62	NULL	16	MMML C2SCIEJ_MMML 1
16	-10.55	NULL	68	CC collagen
17	-10.2	NULL	37	BP collagen fibril organization
18	-10.01	NULL	403	BP cell adhesion
19	-9.83	NULL	68	Glio cultured astroglia vs. in vivo astrocytes
20	-9.56	NULL	57	MF extracellular matrix structural constituent

p-values



GW_202

Local Summary

%DE = 0.97
 # metagenes = 12
 # genes = 196
 # genes in genesets = 192

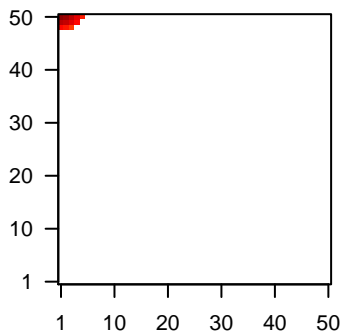
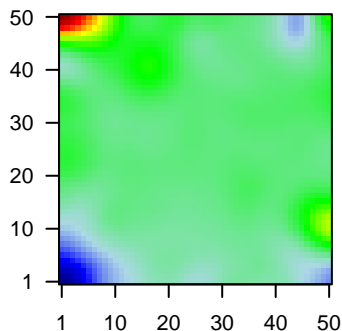
genes with $fdr < 0.1 = 189$ (185 + / 4 -)
 # genes with $fdr < 0.05 = 189$ (185 + / 4 -)
 # genes with $fdr < 0.01 = 181$ (177 + / 4 -)

$\langle r \rangle$ metagenes = 0.98
 $\langle r \rangle$ genes = 0.47

$\langle FC \rangle = 1.08$
 $\langle \text{shrinkage-t} \rangle = 38.12$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.08$

Profile

Spot



Local Genelist

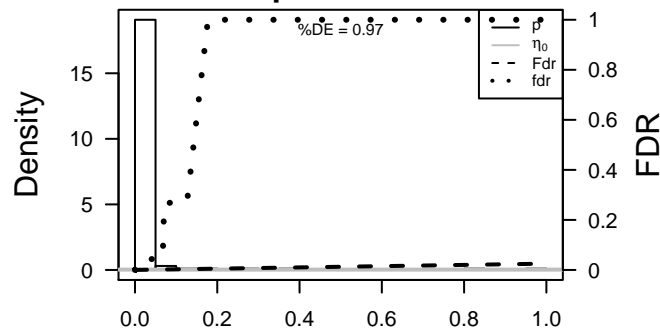
Rank	ID	log(FC)	fdr	p-value	Description
1	144568	1.65	2e-16	1e-17	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	131	1.9	2e-16	1e-17	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	57016	1.58	2e-16	1e-17	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
4	218	1.51	2e-16	1e-17	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
5	23120	1.38	2e-16	1e-17	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543
6	8424	1.3	2e-16	1e-17	3 x 48 butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma
7	394263	1.77	2e-16	1e-17	3 x 50
8	375791	2.06	2e-16	1e-17	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
9	51806	2.17	2e-16	1e-17	4 x 50 calmodulin-like 5 [Source:HGNC Symbol;Acc:18180]
10	1048	1.69	2e-16	1e-17	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
11	4680	1.74	2e-16	1e-17	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (
12	1087	1.24	2e-16	1e-17	4 x 50 carcinoembryonic antigen-related cell adhesion molecule 7 [
13	22802	2.06	2e-16	1e-17	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
14	9022	1.6	2e-16	1e-17	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:21
15	84518	1.92	2e-16	1e-17	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
16	54544	1.66	2e-16	1e-17	1 x 50 cysteine-rich C-terminal 1 [Source:HGNC Symbol;Acc:29871
17	49860	3.33	2e-16	1e-17	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
18	1475	1.39	2e-16	1e-17	1 x 50 cystatin A (stefin A) [Source:HGNC Symbol;Acc:2481]
19	1577	1.31	2e-16	1e-17	4 x 50 cytochrome P450, family 3, subfamily A, polypeptide 5 [Sour
20	414325	-1.35	2e-16	1e-17	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	53.77	NULL	72 / 135	H.Tiss WIRTH_Mucosa
2	39.07	NULL	14 / 21	CC cornified envelope
3	30.45	NULL	19 / 53	BP keratinocyte differentiation
4	29.31	NULL	16 / 42	BP keratinization
5	24.38	NULL	19 / 76	BP epidermis development
6	22.95	NULL	8 / 19	BP peptide cross-linking
7	20.74	NULL	76 / 572	Disease GUDJ_psooriasis up
8	19.16	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
9	16.19	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
10	14.05	NULL	5 / 10	MF RAGE receptor binding
11	12.93	NULL	6 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
12	12.92	NULL	6 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
13	12.79	NULL	5 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
14	12.68	NULL	6 / 13	BP negative regulation of peptidase activity
15	12.66	NULL	7 / 38	BP epithelial cell differentiation
16	11.64	NULL	4 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
17	11.25	NULL	5 / 10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
18	11.23	NULL	13 / 186	MF structural molecule activity
19	11.06	NULL	3 / 16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
20	9.67	NULL	4 / 44	CC keratin filament
21	9.66	NULL	12 / 122	MF serine-type endopeptidase activity
22	9.18	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
23	8.93	NULL	3 / 16	GSEA C2CHEOK_RESPONSE_TO_MERCAPTOPYRINE_AND_LD_MTX
24	8.92	NULL	2 / 15	GSEA C2ALONSO_METASTASIS_NEURAL_UP
25	8.91	NULL	6 / 82	CC intermediate filament
26	8.83	NULL	2 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
27	8.76	NULL	2 / 17	Disease BCHETNIA_EBM up
28	8.56	NULL	3 / 12	BP cellular aldehyde metabolic process
29	8.41	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP
30	8.27	NULL	4 / 27	BP response to bacterium
31	8.13	NULL	49 / 1182	CC extracellular region
32	8.02	NULL	3 / 15	GSEA C2CHANG_IMMORTALIZED_BY_HPV31_DN
33	8	NULL	4 / 13	H.Tiss WIRTH_Tonsil
34	7.99	NULL	4 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
35	7.74	NULL	11 / 79	MF serine-type endopeptidase inhibitor activity
36	7.58	NULL	3 / 11	GSEA C2REACTOME_XENOBIOTICS
37	7.57	NULL	5 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
38	7.46	NULL	3 / 11	GSEA C2KEGG_DRUG_METABOLISM_CYTOCHROME_P450
39	7.39	NULL	4 / 15	MF retinol dehydrogenase activity
40	7.33	NULL	3 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LUNG_UP

p-values



GW_202

Local Summary

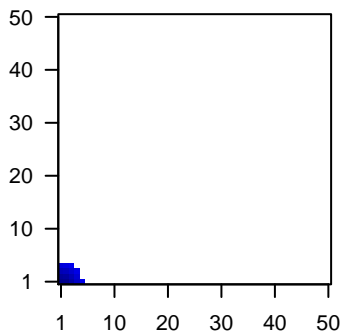
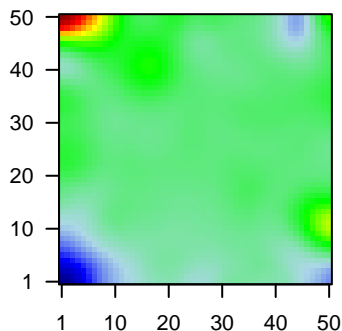
%DE = 0.96
 # metagenes = 16
 # genes = 259
 # genes in genesets = 258

genes with $fdr < 0.1 = 228$ (8 + / 220 -)
 # genes with $fdr < 0.05 = 228$ (8 + / 220 -)
 # genes with $fdr < 0.01 = 209$ (7 + / 202 -)

<r> metagenes = 0.96
 <r> genes = 0.4
 <FC> = -0.67
 <shrinkage-t> = -23.56
 <p-value> = 0
 <fdr> = 0.2

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	59	-1.27	2e-16	8e-17	3 x 1 actin, alpha 2, smooth muscle, aorta [Source:HGNC Symbol;]
2	1009	-1.24	2e-16	8e-17	3 x 1 cadherin 11, type 2, OB-cadherin (osteoblast) [Source:HGNC]
3	1307	-1.39	2e-16	8e-17	1 x 2 collagen, type XVI, alpha 1 [Source:HGNC Symbol;Acc:2193]
4	1277	-2.39	2e-16	8e-17	2 x 1 collagen, type I, alpha 1 [Source:HGNC Symbol;Acc:2197]
5	1278	-2.11	2e-16	8e-17	2 x 1 collagen, type I, alpha 2 [Source:HGNC Symbol;Acc:2198]
6	1281	-2.05	2e-16	8e-17	2 x 1 collagen, type III, alpha 1 [Source:HGNC Symbol;Acc:2201]
7	1282	-1.77	2e-16	8e-17	2 x 1 collagen, type IV, alpha 1 [Source:HGNC Symbol;Acc:2202]
8	1289	-1.91	2e-16	8e-17	2 x 1 collagen, type V, alpha 1 [Source:HGNC Symbol;Acc:2209]
9	1290	-1.96	2e-16	8e-17	2 x 1 collagen, type V, alpha 2 [Source:HGNC Symbol;Acc:2210]
10	1291	-1.73	2e-16	8e-17	2 x 1 collagen, type VI, alpha 1 [Source:HGNC Symbol;Acc:2211]
11	1293	-1.82	2e-16	8e-17	2 x 1 collagen, type VI, alpha 3 [Source:HGNC Symbol;Acc:2213]
12	83716	-1.44	2e-16	8e-17	2 x 1 cysteine-rich secretory protein LCCL domain containing 2 [Si]
13	1687	-1.24	2e-16	8e-17	1 x 4 deafness, autosomal dominant 5 [Source:HGNC Symbol;Acc]
14	3576	-1.26	2e-16	8e-17	1 x 1 interleukin 8 [Source:HGNC Symbol;Acc:6025]
15	3956	-1.96	2e-16	8e-17	1 x 1 lectin, galactoside-binding, soluble, 1 [Source:HGNC Symbol]
16	4312	-1.82	2e-16	8e-17	1 x 1 matrix metalloproteinase 1 (interstitial collagenase) [Source:Hi]
17	4320	-1.32	2e-16	8e-17	3 x 1 matrix metalloproteinase 11 (stromelysin 3) [Source:HGNC Sy]
18	4318	-1.65	2e-16	8e-17	1 x 1 matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 9;
19	5159	-1.31	2e-16	8e-17	3 x 1 platelet-derived growth factor receptor, beta polypeptide [Sou]
20	5328	-1.6	2e-16	8e-17	1 x 3 plasminogen activator, urokinase [Source:HGNC Symbol;Acc]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-42.97	NULL	8 / 11	MF platelet-derived growth factor binding
2	-40.38	NULL	12 / 16	GSEA C27FARMER_BREAST_CANCER_CLUSTER_5
3	-39.81	NULL	62 / 190	CC extracellular matrix
4	-39.5	NULL	15 / 16	MMML C63CIEJ_MMML_1
5	-39.27	NULL	31 / 69	BP extracellular matrix disassembly
6	-38.28	NULL	28 / 64	BP collagen catabolic process
7	-37.64	NULL	8 / 12	miRNA target-29c
8	-36.18	NULL	71 / 250	LymphomaENZ_Stromal signature 1
9	-34.95	NULL	67 / 242	BP extracellular matrix organization
10	-31.66	NULL	11 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
11	-26.18	NULL	10 / 15	GSEA C2ONDER_CDH1_TARGETS_2_UP
12	-25.52	NULL	15 / 37	BP collagen fibril organization
13	-24.97	NULL	20 / 57	MF extracellular matrix structural constituent
14	-24.42	NULL	5 / 10	GSEA C2KEGG_ECM_RECEPTOR_INTERACTION
15	-24.24	NULL	12 / 40	BP cellular response to amino acid stimulus
16	-23.27	NULL	8 / 15	GSEA C2ONDER_CDH1_SIGNALING_VIA_CTNNB1
17	-23.1	NULL	39 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
18	-23.1	NULL	39 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
19	-23.1	NULL	39 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
20	-23.1	NULL	39 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
21	-22.97	NULL	18 / 68	CC collagen
22	-22.53	NULL	4 / 5	GSEA C2COLLER_MYC_TARGETS_DN
23	-22.31	NULL	4 / 10	BP protein heterotrimerization
24	-21.66	NULL	12 / 35	Glio Colman_survival-associated
25	-21.03	NULL	75 / 683	CC extracellular space
26	-20.79	NULL	7 / 16	GSEA C2TURASHVILL_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_L
27	-20.75	NULL	4 / 8	GSEA C2HAEGERSTRAND_RESPONSE_TO_IMATINIB
28	-20.14	NULL	4 / 12	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C2
29	-20.11	NULL	8 / 16	GSEA C2ROZANOV_MMP14_TARGETS_SUBSET
30	-19.67	NULL	6 / 13	GSEA C2TURASHVILL_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR
31	-19.33	NULL	5 / 13	GSEA C2PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
32	-19.18	NULL	101 / 1182	CC extracellular region
33	-19.11	NULL	25 / 153	CC endoplasmic reticulum lumen
34	-19.06	NULL	5 / 16	GSEA C2JURS_ADIPOCYTE_DIFFERENTIATION_DN
35	-19.05	NULL	14 / 68	Glio cultured astroglia vs. in vivo astrocytes
36	-19.04	NULL	23 / 119	LymphomaOSOLOWSKI_green total
37	-19.03	NULL	22 / 83	CC basement membrane
38	-18.84	NULL	11 / 19	MF extracellular matrix binding
39	-18.74	NULL	37 / 183	CC proteinaceous extracellular matrix
40	-18.74	NULL	5 / 16	GSEA C2REACTOME_SIGNALING_BY_PDGF

p-values

