

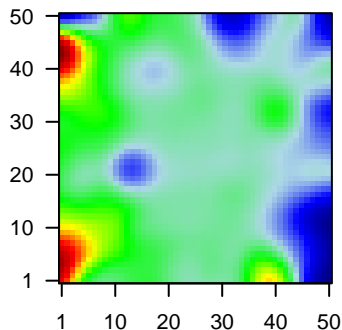
GW_091

Global Summary

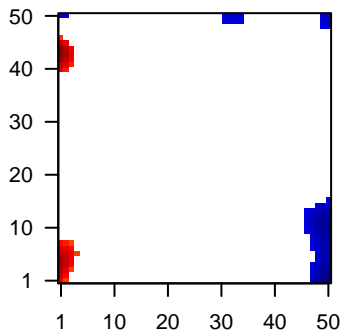
%DE = 0.14
 # genes with $fdr < 0.2$ = 1828 (1030 + / 798 -)
 # genes with $fdr < 0.1$ = 1473 (844 + / 629 -)
 # genes with $fdr < 0.05$ = 1160 (669 + / 491 -)
 # genes with $fdr < 0.01$ = 801 (476 + / 325 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.11
 <fdr> = 0.86

Profile



Regulated Spots



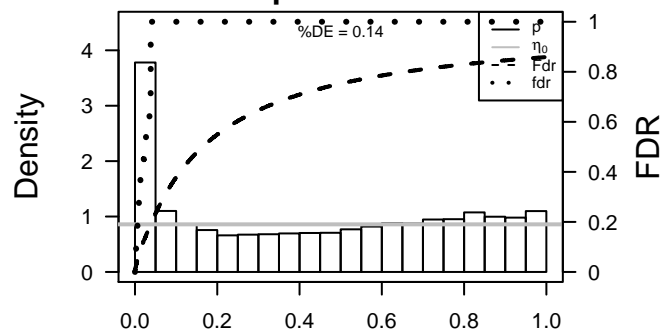
Global Genelist

Rank	ID	log(FC)	fdr p-value	Description	Metagene
1	79852	-1.29	2e-16 4e-14	3 x 50	epoxide hydrolase 3 [Source:HGNC Symbol;Acc:23760]
2	131	-1.82	2e-16 4e-14	1 x 50	alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	8644	-1.5	2e-16 4e-14	1 x 50	aldo-keto reductase family 1, member C3 [Source:HGNC Sy
4	1109	-1.78	2e-16 4e-14	13 x 50	aldo-keto reductase family 1, member C4 [Source:HGNC Sy
5	216	-1.58	2e-16 4e-14	50 x 50	aldehyde dehydrogenase 1 family, member A1 [Source:HGNC
6	218	-2.7	2e-16 4e-14	1 x 50	aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
7	23120	-1.28	2e-16 4e-14	1 x 50	ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543
8	633	1.22	2e-16 4e-14	3 x 1	biglycan [Source:HGNC Symbol;Acc:1044]
9	260436	-1.31	2e-16 4e-14	50 x 1	follicular dendritic cell secreted protein [Source:HGNC Symbc
10	760	1.36	2e-16 4e-14	1 x 44	carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
11	768	1.49	2e-16 4e-14	1 x 6	carbonic anhydrase IX [Source:HGNC Symbol;Acc:1383]
12	1001	1.42	2e-16 4e-14	1 x 43	cadherin 3, type 1, P-cadherin (placental) [Source:HGNC Sy
13	1048	-1.6	2e-16 4e-14	2 x 50	carcinoembryonic antigen-related cell adhesion molecule 5 [
14	4680	-1.75	2e-16 4e-14	1 x 50	carcinoembryonic antigen-related cell adhesion molecule 6 (i
15	22802	-1.85	2e-16 4e-14	1 x 50	chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
16	1258	1.48	2e-16 4e-14	1 x 7	cyclic nucleotide gated channel beta 1 [Source:HGNC Symbc
17	1308	1.45	2e-16 4e-14	1 x 43	collagen, type XVII, alpha 1 [Source:HGNC Symbol;Acc:2194
18	1277	1.37	2e-16 4e-14	2 x 1	collagen, type I, alpha 1 [Source:HGNC Symbol;Acc:2197]
19	1289	1.33	2e-16 4e-14	2 x 1	collagen, type V, alpha 1 [Source:HGNC Symbol;Acc:2209]
20	51200	1.56	2e-16 4e-14	1 x 44	carboxypeptidase A4 [Source:HGNC Symbol;Acc:15740]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	10.96	NULL	918	Chr Chr 17
2	10.66	NULL	717	Chr Chr 16
3	9.17	NULL	866	Chr Chr 12
4	8.7	NULL	12	BP hemidesmosome assembly
5	8.19	NULL	242	BP extracellular matrix organization
6	7.38	NULL	117	Glio GIEZELT_GBM_WT_up_VS_mut
7	7.28	NULL	534	Chr Chr 8
8	6.98	NULL	403	BP cell adhesion
9	6.86	NULL	69	BP extracellular matrix disassembly
10	6.58	NULL	16	GSEA C2ELVIDGE_HIF1A_AND_HIF2A_TARGETS_DN
11	6.46	NULL	76	BP epidermis development
12	6.34	NULL	2659	CC plasma membrane
13	6.27	NULL	70	BP cell junction assembly
14	6.22	NULL	633	Chr Chr 9
15	6.16	NULL	64	BP collagen catabolic process
16	6.04	NULL	21	CC desmosome
17	6.02	NULL	250	LymphoRNENZ_Stromal signature 1
18	6.02	NULL	16	GSEA C2ELVIDGE_HIF1A_TARGETS_DN
19	5.95	NULL	16	GSEA C2ROZANOV_MMP14_TARGETS_SUBSET
20	5.93	NULL	16	GSEA C2BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_DN
<i>Underexpressed</i>				
1	-12.59	NULL	699	Chr Chr 5
2	-8.01	NULL	83	BP respiratory electron transport chain
3	-7.47	NULL	15	CC MHC class II protein complex
4	-7.17	NULL	52	Chr HSCHR6_MHC_QBL
5	-7.13	NULL	13	BP negative regulation of peptidase activity
6	-7.12	NULL	152	BP cellular metabolic process
7	-6.73	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
8	-6.65	NULL	119	BP xenobiotic metabolic process
9	-6.5	NULL	153	MF structural constituent of ribosome
10	-6.48	NULL	167	CC ribosome
11	-6.4	NULL	1318	CC mitochondrion
12	-6.36	NULL	47	BP antigen processing and presentation
13	-6.29	NULL	5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
14	-6.28	NULL	16	GSEA C2CROMER_TUMORIGENESIS_DN
15	-6.22	NULL	12	BP cellular aldehyde metabolic process
16	-6.21	NULL	304	CC mitochondrial inner membrane
17	-6.1	NULL	253	BP translation
18	-5.93	NULL	8	GSEA C2LIU_CDX2_TARGETS_DN
19	-5.77	NULL	15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
20	-5.59	NULL	34	MF NADH dehydrogenase (ubiquinone) activity

p-values



GW_091

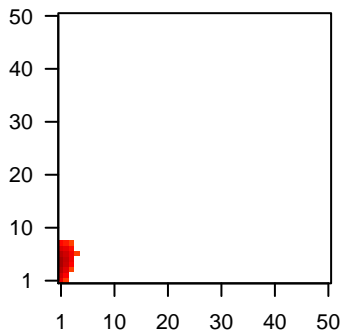
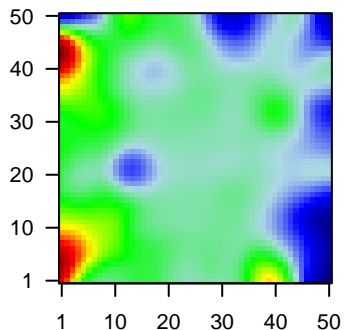
Local Summary

%DE = 0.68
 # metagenes = 23
 # genes = 344
 # genes in genesets = 341
 # genes with $fdr < 0.1$ = 207 (193 + / 14 -)
 # genes with $fdr < 0.05$ = 180 (171 + / 9 -)
 # genes with $fdr < 0.01$ = 152 (146 + / 6 -)

<r> metagenes = 0.94
 <r> genes = 0.32
 <FC> = 0.38
 <shrinkage-t> = 13.29
 <p-value> = 0
 <fdr> = 0.43

Profile

Spot



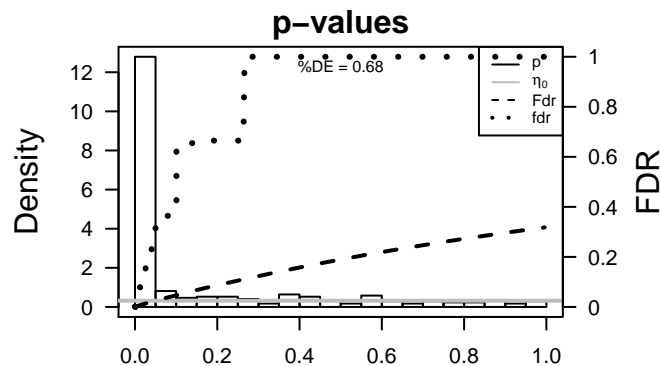
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	768	1.49	2e-16	2e-15	1 x 6 carbonic anhydrase IX [Source:HGNC Symbol;Acc:1383]
2	1258	1.48	2e-16	2e-15	1 x 7 cyclic nucleotide gated channel beta 1 [Source:HGNC Symbc
3	1277	1.37	2e-16	2e-15	2 x 1 collagen, type I, alpha 1 [Source:HGNC Symbol;Acc:2197]
4	1289	1.33	2e-16	2e-15	2 x 1 collagen, type V, alpha 1 [Source:HGNC Symbol;Acc:2209]
5	285761	1.57	2e-16	2e-15	1 x 4 discoidin, CUB and LCCL domain containing 1 [Source:HGNC
6	2195	1.28	2e-16	2e-15	1 x 5 FAT atypical cadherin 1 [Source:HGNC Symbol;Acc:3595]
7	3678	1.38	2e-16	2e-15	1 x 1 integrin, alpha 5 (fibronectin receptor, alpha polypeptide) [So
8	4311	1.57	2e-16	2e-15	2 x 1 membrane metallo-endopeptidase [Source:HGNC Symbol;A
9	169611	1.25	2e-16	2e-15	1 x 5 olfactomedin-like 2A [Source:HGNC Symbol;Acc:27270]
10	8877	1.26	2e-16	2e-15	3 x 5 sphingosine kinase 1 [Source:HGNC Symbol;Acc:11240]
11	7078	1.27	2e-16	2e-15	2 x 1 TIMP metalloproteinase inhibitor 3 [Source:HGNC Symbol;Acc
12	3371	1.95	2e-16	2e-15	1 x 3 tenascin C [Source:HGNC Symbol;Acc:5318]
13	90226	1.23	2e-16	2e-15	1 x 5 urocortin 2 [Source:HGNC Symbol;Acc:18414]
14	56603	1.19	7e-16	7e-14	1 x 4 cytochrome P450, family 26, subfamily B, polypeptide 1 [Sour
15	60675	1.19	7e-16	7e-14	1 x 1 prokineticin 2 [Source:HGNC Symbol;Acc:18455]
16	1294	1.18	1e-15	7e-13	1 x 5 collagen, type VII, alpha 1 [Source:HGNC Symbol;Acc:2214]
17	401138	1.15	8e-15	2e-12	1 x 5 amelotin [Source:HGNC Symbol;Acc:33188]
18	3918	1.12	4e-14	2e-12	1 x 4 laminin, gamma 2 [Source:HGNC Symbol;Acc:6493]
19	4316	-1.11	5e-14	2e-12	2 x 1 matrix metalloproteinase 7 (matrilysin, uterine) [Source:HGNC
20	8632	1.11	6e-14	2e-11	1 x 8 dynein, axonemal, heavy chain 17 [Source:HGNC Symbol;Ac

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	22.5	NULL	59 / 242	BP extracellular matrix organization
2	20.35	NULL	6 / 11	MF platelet-derived growth factor binding
3	19.89	NULL	8 / 16	GSEA C2BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_DN
4	18.79	NULL	10 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
5	18.45	NULL	5 / 13	GSEA C2BRUECKNER_TARGETS_OF_MIRLET7A3_DN
6	17.59	NULL	21 / 64	BP collagen catabolic process
7	17.24	NULL	22 / 69	BP extracellular matrix disassembly
8	16.79	NULL	5 / 10	GSEA C2KEGG_ECM_RECEPTOR_INTERACTION
9	15.27	NULL	5 / 16	GSEA C2ROZANOV_MMP14_TARGETS_SUBSET
10	15.18	NULL	38 / 265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
11	15.18	NULL	38 / 265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
12	15.18	NULL	38 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
13	15.18	NULL	38 / 265	Glio wilscher_GBM_Verhaak-PNmut_expression_B_down
14	14.96	NULL	44 / 250	LymphomaL1ENZ_Stromal signature 1
15	14.69	NULL	37 / 190	CC extracellular matrix
16	14.44	NULL	55 / 403	BP cell adhesion
17	14.43	NULL	11 / 35	Glio Colman_survival_associated
18	13.93	NULL	12 / 37	BP collagen fibril organization
19	13.88	NULL	10 / 16	MMML C6ACIEJ_MMML 1
20	13.71	NULL	3 / 10	BP protein heterotrimerization
21	13.58	NULL	11 / 40	BP cellular response to amino acid stimulus
22	13.15	NULL	4 / 10	GSEA C2YENGAR_RESPONSE_TO_ADIPOCYTE_FACTORS
23	12.88	NULL	3 / 15	GSEA C2MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_UP
24	12.81	NULL	3 / 5	GSEA C2DASU_IL6_SIGNALING_UP
25	12.78	NULL	4 / 13	GSEA C2HELLEBREKERS_SILENCED_DURING_TUMOR_ANGIOGENESIS
26	12.7	NULL	6 / 12	miRNA target-29c
27	12.47	NULL	20 / 153	CC endoplasmic reticulum lumen
28	12.34	NULL	4 / 15	GSEA C2REACTOME_NCAM1_INTERACTIONS
29	12.28	NULL	7 / 14	GSEA C2VERRECCHIA_EARLY_RESPONSE_TO_TGFB1
30	11.9	NULL	4 / 16	GSEA C2REACTOME_NCAM_SIGNALING_FOR_NEURITE_OUT_GROWTH
31	11.86	NULL	8 / 27	CC integrin complex
32	11.73	NULL	3 / 8	GSEA C2HUANG_DASATINIB_RESISTANCE_UP
33	11.65	NULL	17 / 83	CC basement membrane
34	11.61	NULL	6 / 12	BP hemidesmosome assembly
35	11.5	NULL	4 / 15	GSEA C2RODWELL_AGING_KIDNEY_NO_BLOOD_UP
36	11.24	NULL	6 / 19	MF L-ascorbic acid binding
37	11.08	NULL	100 / 1182	CC extracellular region
38	10.89	NULL	15 / 106	BP leukocyte migration
39	10.83	NULL	5 / 14	GSEA C2LOPEZ_MESOTHELIOMA_SURVIVAL_OVERALL_DN
40	10.74	NULL	5 / 11	GSEA C2BIOCARTA_PLATELETAPP_PATHWAY



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Local Summary

%DE = 0.78
 # metagenes = 17
 # genes = 229
 # genes in genesets = 226

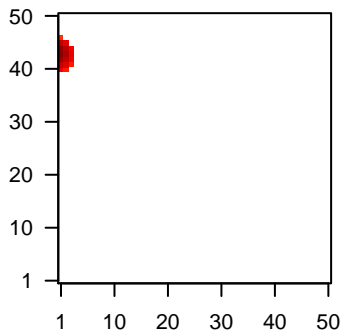
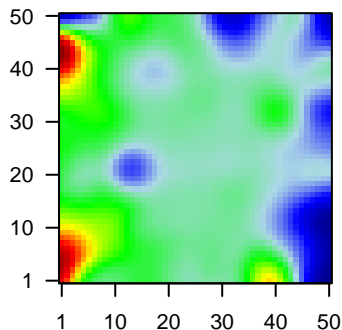
genes with $fdr < 0.1 = 144$ (135 + / 9 -)
 # genes with $fdr < 0.05 = 134$ (126 + / 8 -)
 # genes with $fdr < 0.01 = 116$ (108 + / 8 -)

$\langle r \rangle$ metagenes = 0.96
 $\langle r \rangle$ genes = 0.36

$\langle FC \rangle = 0.47$
 $\langle \text{shrinkage-t} \rangle = 16.65$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.39$

Profile

Spot



Local Genelist

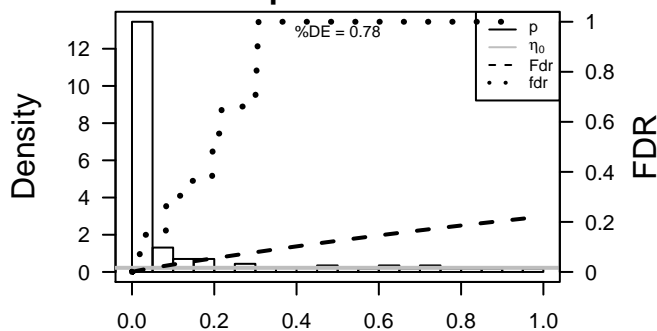
Rank	ID	log(FC)	fdr	p-value	Description
1	760	1.36	2e-16	7e-16	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
2	1001	1.42	2e-16	7e-16	1 x 43 cadherin 3, type 1, P-cadherin (placental) [Source:HGNC Sy
3	1308	1.45	2e-16	7e-16	1 x 43 collagen, type XVII, alpha 1 [Source:HGNC Symbol;Acc:2194
4	51200	1.56	2e-16	7e-16	1 x 44 carboxypeptidase A4 [Source:HGNC Symbol;Acc:15740]
5	2167	1.59	2e-16	7e-16	1 x 44 fatty acid binding protein 4, adipocyte [Source:HGNC Symbol
6	126917	1.6	2e-16	7e-16	1 x 45 intermediate filament family orphan 2 [Source:HGNC Symbol
7	3489	2.17	2e-16	7e-16	1 x 44 insulin-like growth factor binding protein 6 [Source:HGNC Sy
8	53833	1.32	2e-16	7e-16	1 x 46 interleukin 20 receptor beta [Source:HGNC Symbol;Acc:6004
9	3861	1.33	2e-16	7e-16	1 x 45 keratin 14 [Source:HGNC Symbol;Acc:6416]
10	3868	1.38	2e-16	7e-16	1 x 46 keratin 16 [Source:HGNC Symbol;Acc:6423]
11	9119	2.07	2e-16	7e-16	1 x 44 keratin 75 [Source:HGNC Symbol;Acc:24431]
12	10397	1.21	2e-16	7e-16	1 x 42 N-myc downstream regulated 1 [Source:HGNC Symbol;Acc:1
13	56901	1.58	2e-16	7e-16	1 x 44 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-li
14	5738	1.21	2e-16	7e-16	1 x 41 prostaglandin F2 receptor inhibitor [Source:HGNC Symbol;Ac
15	5744	1.81	2e-16	7e-16	1 x 43 parathyroid hormone-like hormone [Source:HGNC Symbol;A
16	404203	1.71	2e-16	7e-16	1 x 43 serine peptidase inhibitor, Kazal type 6 [Source:HGNC Symb
17	5317	1.19	9e-16	2e-14	1 x 46 plakophilin 1 (ectodermal dysplasia/skin fragility syndrome) [S
18	84985	1.18	2e-15	2e-14	1 x 44 family with sequence similarity 83, member A [Source:HGNC
19	8601	1.18	2e-15	2e-14	1 x 44 regulator of G-protein signaling 20 [Source:HGNC Symbol;A
20	113146	1.18	2e-15	1e-13	1 x 44 AHNAK nucleoprotein 2 [Source:HGNC Symbol;Acc:20125]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	18.17	NULL	5 / 12	BP hemidesmosome assembly
2	17.62	NULL	7 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
3	16.27	NULL	14 / 82	CC intermediate filament
4	14.63	NULL	2 / 7	GSEA C2YE_METASTATIC_LIVER_CANCER
5	14.45	NULL	12 / 76	BP epidermis development
6	14.08	NULL	4 / 13	BP intermediate filament cytoskeleton organization
7	13.53	NULL	1 / 5	GSEA C2BUSA_SAM68_TARGETS_UP
8	12.57	NULL	19 / 135	H.Tiss WIRTH_Mucosa
9	12.08	NULL	2 / 2	miRNA target-199a*
10	11.41	NULL	5 / 44	CC keratin filament
11	11.34	NULL	4 / 16	GSEA C2ELVIDGE_HIF1A_AND_HIF2A_TARGETS_DN
12	11.33	NULL	4 / 16	GSEA C2ELVIDGE_HIF1A_TARGETS_DN
13	11.28	NULL	6 / 21	CC desmosome
14	11.11	NULL	2 / 15	GSEA C2KANG_CISPLATIN_RESISTANCE_UP
15	10.68	NULL	3 / 25	BP response to zinc ion
16	10.07	NULL	2 / 8	GSEA C2DORN_ADENOVIRUS_INFECTION_24HR_UP
17	9.49	NULL	2 / 8	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_UP
18	9.32	NULL	3 / 38	BP epithelial cell differentiation
19	9.28	NULL	3 / 10	BP negative regulation of interleukin-2 production
20	9.27	NULL	10 / 82	MF structural constituent of cytoskeleton
21	9.24	NULL	3 / 15	GSEA C2AIGNER_ZEB1_TARGETS
22	9.2	NULL	1 / 7	GSEA C2BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_AND_PAX3
23	9.13	NULL	2 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP
24	8.95	NULL	2 / 9	GSEA C2KYNG_DNA_DAMAGE_UP
25	8.95	NULL	2 / 9	GSEA C2KYNG_ENVIRONMENTAL_STRESS_RESPONSE_UP
26	8.94	NULL	3 / 16	GSEA C2ELVIDGE_HYPOXIA_BY_DMOG_UP
27	8.93	NULL	6 / 70	BP cell junction assembly
28	8.92	NULL	2 / 8	GSEA C2LIU_CDX2_TARGETS_DN
29	8.78	NULL	12 / 186	MF structural molecule activity
30	8.77	NULL	54 / 572	Disease GUDJ_psooriasis up
31	8.71	NULL	3 / 15	GSEA C2SENESE_HDAC1_AND_HDAC2_TARGETS_DN
32	8.68	NULL	5 / 32	CC cell-cell adherens junction
33	8.62	NULL	4 / 20	MF scaffold protein binding
34	8.44	NULL	3 / 12	CC fascia adherens
35	8.42	NULL	2 / 10	GSEA C2RUGO_ENVIRONMENTAL_STRESS_RESPONSE_UP
36	8.42	NULL	2 / 10	GSEA C2KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_GAM
37	8.4	NULL	2 / 12	MF fatty acid binding
38	8.36	NULL	3 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATE
39	8.28	NULL	2 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
40	8.23	NULL	2 / 10	BP skeletal muscle tissue regeneration

p-values



GW_091

Local Summary

%DE = 0.65
 # metagenes = 63
 # genes = 771
 # genes in genesets = 762

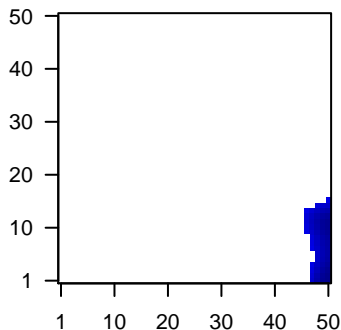
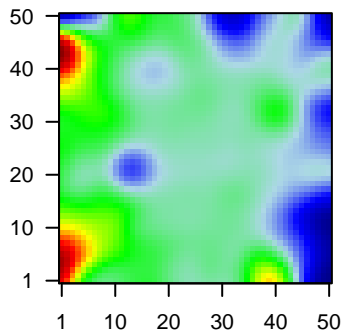
genes with fdr < 0.1 = 269 (29 + / 240 -)
 # genes with fdr < 0.05 = 236 (26 + / 210 -)
 # genes with fdr < 0.01 = 150 (13 + / 137 -)

<r> metagenes = 0.79
 <r> genes = 0.27

<FC> = -0.24
 <shrinkage-t> = -8.31
 <p-value> = 0.01
 <fdr> = 0.65

Profile

Spot



Local Genelist

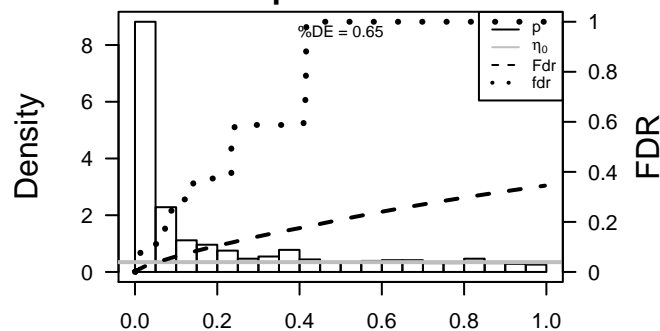
Rank	ID	log(FC)	fdr	p-value	Description
1	260436	-1.31	2e-16	1e-14	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
2	3169	-1.32	2e-16	1e-14	50 x 12 forkhead box A1 [Source:HGNC Symbol;Acc:5021]
3	3512	-1.5	2e-16	1e-14	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglobu
4	6192	-1.27	2e-16	1e-14	50 x 9 ribosomal protein S4, Y-linked 1 [Source:HGNC Symbol;Acc:
5	10537	-1.38	2e-16	1e-14	50 x 1 ubiquitin D [Source:HGNC Symbol;Acc:18795]
6	894	-1.19	9e-16	4e-13	50 x 4 cyclin D2 [Source:HGNC Symbol;Acc:1583]
7	3122	-1.09	2e-15	1e-12	50 x 1 major histocompatibility complex, class II, DR alpha [Source:t
8	5996	-1.15	7e-15	4e-12	50 x 1 regulator of G-protein signaling 1 [Source:HGNC Symbol;Acc:
9	2568	-1.13	3e-14	4e-12	50 x 13 gamma-aminobutyric acid (GABA) A receptor, pi [Source:HG
10	83699	-1.12	4e-14	3e-11	50 x 11 SH3 domain binding glutamic acid-rich protein like 2 [Source
11	51316	-1.08	2e-13	3e-11	50 x 13 placenta-specific 8 [Source:HGNC Symbol;Acc:19254]
12	7033	-1.07	4e-13	3e-11	50 x 10 trefoil factor 3 (intestinal) [Source:HGNC Symbol;Acc:11757]
13	1396	1.07	4e-13	5e-10	50 x 5 cysteine-rich protein 1 (intestinal) [Source:HGNC Symbol;Ac
14	3128	-1.04	2e-12	1e-09	50 x 1 major histocompatibility complex, class II, DR beta 6 (pseudo
15	2745	-1.01	8e-12	2e-09	50 x 3 glutaredoxin (thioltransferase) [Source:HGNC Symbol;Acc:43
16	399959	-1	1e-11	2e-09	50 x 6
17	26002	-0.99	2e-11	2e-08	50 x 16 monooxygenase, DBH-like 1 [Source:HGNC Symbol;Acc:210
18	57559	-0.94	2e-10	2e-08	48 x 2 STAM binding protein-like 1 [Source:HGNC Symbol;Acc:2410
19	54855	-0.94	2e-10	2e-08	49 x 1 family with sequence similarity 46, member C [Source:HGNC
20	10551	-0.94	2e-10	2e-08	50 x 10 anterior gradient 2 [Source:HGNC Symbol;Acc:328]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-18.07	NULL	12 / 15	CC MHC class II protein complex
2	-16.3	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
3	-15.57	NULL	14 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
4	-12.43	NULL	17 / 47	BP antigen processing and presentation
5	-10.98	NULL	4 / 7	MMML C2SCIEJ_MMML 5
6	-10.69	NULL	2 / 4	MMML C2SCIEJ_MMML 2
7	-10.64	NULL	4 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
8	-10.2	NULL	4 / 8	GSEA C2RUNNE_GENDER_EFFECT_UP
9	-10.14	NULL	4 / 10	BP epoxygenase P450 pathway
10	-9.91	NULL	7 / 15	GSEA C2NAKAJIMA_MAST_CELL
11	-9.65	NULL	5 / 7	GSEA C2LOPEZ_MESOTHELIOMA_SURVIVAL_WORST_VS_BEST_DN
12	-9.43	NULL	4 / 11	GSEA C2SUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP
13	-9.38	NULL	4 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_A
14	-9.35	NULL	6 / 7	GSEA C2LOPEZ_MESOTELIOMA_SURVIVAL_TIME_DN
15	-9.32	NULL	9 / 16	GSEA C2SU_THYMUS
16	-9.3	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
17	-8.99	NULL	4 / 9	GSEA C2SUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_2
18	-8.94	NULL	9 / 28	CC transport vesicle membrane
19	-8.77	NULL	123 / 553	Cancer Lembcke_Colonc Inflammation
20	-8.75	NULL	7 / 21	CC clathrin-coated endocytic vesicle membrane
21	-8.7	NULL	62 / 312	BP immune response
22	-8.36	NULL	3 / 13	GSEA C2WONG_ENDMETRIUM_CANCER_UP
23	-8.3	NULL	7 / 23	CC integral to lumenal side of endoplasmic reticulum membrane
24	-8.29	NULL	4 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN
25	-8.22	NULL	6 / 15	GSEA C2POOLA_INVASIVE_BREAST_CANCER_DN
26	-8.2	NULL	3 / 6	GSEA C2LUI_THYROID_CANCER_CLUSTER_4
27	-7.94	NULL	4 / 18	MF aromatase activity
28	-7.92	NULL	10 / 35	CC trans-Golgi network membrane
29	-7.8	NULL	2 / 11	GSEA C2AZAERI_BREAST_CANCER_BRCA1_VS_BRCA2_DN
30	-7.79	NULL	5 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
31	-7.71	NULL	5 / 14	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCIOMA_WITH_LMP1
32	-7.71	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
33	-7.64	NULL	3 / 7	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_DN
34	-7.48	NULL	4 / 15	GSEA C2ROSS_LEUKEMIA_WITH_MLL_FUSIONS
35	-7.48	NULL	7 / 35	MF monooxygenase activity
36	-7.37	NULL	2 / 5	LymphomaWRIGHT_custom ABC-DLBCL UP
37	-7.33	NULL	4 / 26	Disease BCHETNIA_EBM-DM up
38	-7.22	NULL	14 / 60	BP T cell costimulation
39	-7.18	NULL	3 / 9	GSEA C2SOUYER_TATI_TARGETS_UP
40	-7.11	NULL	7 / 16	LymphomaWRIGHT_ABC UP

p-values



GW_091

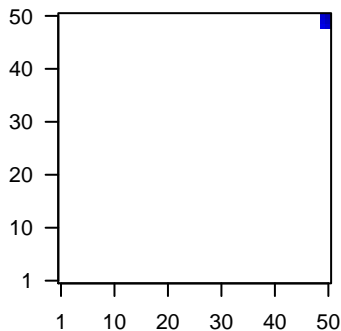
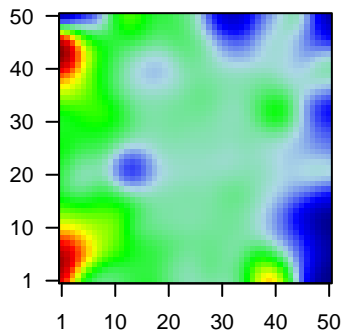
Local Summary

%DE = 0.57
 # metagenes = 6
 # genes = 120
 # genes in genesets = 119
 # genes with fdr < 0.1 = 51 (5 + / 46 -)
 # genes with fdr < 0.05 = 40 (3 + / 37 -)
 # genes with fdr < 0.01 = 31 (2 + / 29 -)

<r> metagenes = 0.99
 <r> genes = 0.31
 <FC> = -0.28
 <shrinkage-t> = -9.9
 <p-value> = 0
 <fdr> = 0.59

Profile

Spot



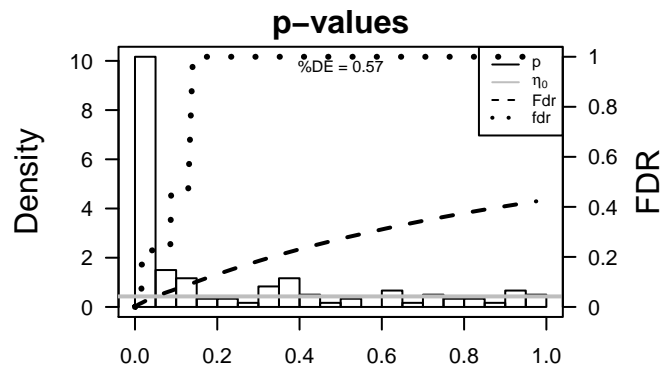
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	216	-1.58	2e-16	4e-15	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC]
2	3866	-1.27	2e-16	4e-15	50 x 50 keratin 15 [Source:HGNC Symbol;Acc:6421]
3	4922	-1.6	2e-16	4e-15	50 x 50 neurotensin [Source:HGNC Symbol;Acc:8038]
4	339512	-1.2	4e-16	7e-14	50 x 50 chromosome 1 open reading frame 110 [Source:HGNC Symt]
5	6657	-1.18	2e-15	1e-13	50 x 50 SRY (sex determining region Y)-box 2 [Source:HGNC Symbx]
6	154664	-1.16	4e-15	1e-12	50 x 50 ATP-binding cassette, sub-family A (ABC1), member 13 [Sof]
7	11166	-1.13	3e-14	2e-09	50 x 50 SRY (sex determining region Y)-box 21 [Source:HGNC Symt]
8	8745	-0.97	5e-11	1e-08	50 x 50 ADAM metallopeptidase domain 23 [Source:HGNC Symbol;A]
9	4915	-0.94	2e-10	2e-06	50 x 50 neurotrophic tyrosine kinase, receptor, type 2 [Source:HGNC]
10	5635	0.81	5e-08	2e-05	50 x 50 phosphoribosyl pyrophosphate synthetase-associated protei
11	79679	-0.75	3e-07	2e-05	50 x 50 V-set domain containing T cell activation inhibitor 1 [Source:t]
12	8544	-0.72	1e-06	2e-05	50 x 50 pirin (iron-binding nuclear protein) [Source:HGNC Symbol;Ac]
13	4953	-0.71	2e-06	2e-05	50 x 50 ornithine decarboxylase 1 [Source:HGNC Symbol;Acc:8109]
14	1528	-0.7	2e-06	2e-05	50 x 50 cytochrome b5 type A (microsomal) [Source:HGNC Symbol;A]
15	83959	-0.7	2e-06	2e-05	50 x 50 solute carrier family 4, sodium borate transporter, member 11
16	2938	-0.7	2e-06	8e-05	50 x 50 glutathione S-transferase alpha 2 [Source:HGNC Symbol;Ac]
17	256764	-0.68	4e-06	2e-04	50 x 50 WD repeat domain 72 [Source:HGNC Symbol;Acc:26790]
18	5625	-0.66	9e-06	6e-04	50 x 48 proline dehydrogenase (oxidase) 1 [Source:HGNC Symbol;Ac]
19	57291	-0.63	2e-05	6e-04	50 x 50 differentiation antagonizing non-protein coding RNA [Source:
20	120	-0.61	3e-05	9e-04	50 x 50 adducin 3 (gamma) [Source:HGNC Symbol;Acc:245]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-28.94	NULL	2 / 7	GSEA C2MCCOLLUM_GELDANAMYCIN_RESISTANCE_DN
2	-28.49	NULL	3 / 8	GSEA C2LIU_CDX2_TARGETS_DN
3	-17.98	NULL	1 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_DN
4	-17.98	NULL	1 / 6	GSEA C2KAPOSI_LIVER_CANCER_POOR_SURVIVAL_DN
5	-16.42	NULL	1 / 7	GSEA C2FREDERICK_PRKCI_TARGETS
6	-16	NULL	3 / 13	BP regulation of blood vessel size
7	-14.21	NULL	3 / 16	GSEA C2BOYVAULT_LIVER_CANCER_SUBCLASS_G1_DN
8	-14.19	NULL	1 / 9	GSEA C2ABDULRAHMAN_KIDNEY_CANCER_VHL_DN
9	-14.19	NULL	1 / 9	GSEA C2REACTOME_ETHANOL_OXIDATION
10	-14.07	NULL	2 / 12	BP cellular aldehyde metabolic process
11	-13.36	NULL	1 / 10	GSEA C2MAINA_VHL_TARGETS_UP
12	-13.36	NULL	1 / 10	GSEA C2FRIDMAN_SENESCENCE_DN
13	-12.81	NULL	1 / 11	Glio neurons_glio
14	-12.79	NULL	5 / 15	GSEA C2KEGG_Glutathione_Metabolism
15	-12.38	NULL	2 / 10	GSEA C2CERVERA_SDHB_TARGETS_1_DN
16	-12.21	NULL	2 / 23	BP stem cell differentiation
17	-12.16	NULL	1 / 7	GSEA C2REACTOME_G1_S_TRANSITION
18	-12.16	NULL	1 / 7	miRNA target-145
19	-12.03	NULL	1 / 12	GSEA C2MOROSSETTI_FACIOSCAPULOHUMERAL_MUSCULAR_DISTRO
20	-11.91	NULL	3 / 12	GSEA C2BROCKE_APOPTOSIS_REVERSED_BY_IL6
21	-11.25	NULL	1 / 8	GSEA C2REACTOME_E2F_TRANSCRIPTIONAL_TARGETS_AT_G1_S
22	-11.25	NULL	1 / 8	miRNA target-450
23	-11.19	NULL	2 / 18	MF acyl-CoA dehydrogenase activity
24	-11.17	NULL	8 / 34	BP glutathione metabolic process
25	-11.02	NULL	1 / 14	MF Ras GTPase activator activity
26	-11.02	NULL	1 / 14	GSEA C2TTONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAIN
27	-11.02	NULL	1 / 14	GSEA C2MAHADEVAN_IMATINIB_RESISTANCE_UP
28	-10.74	NULL	1 / 15	MF neuropeptide hormone activity
29	-10.66	NULL	11 / 119	BP xenobiotic metabolic process
30	-10.6	NULL	1 / 15	GSEA C2DORSAM_HOXA9_TARGETS_UP
31	-10.44	NULL	4 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
32	-10.25	NULL	2 / 9	GSEA C2REACTOME_GLUCCURONIDATION
33	-9.88	NULL	1 / 10	MF miRNA binding
34	-9.73	NULL	6 / 25	BP glutathione derivative biosynthetic process
35	-9.6	NULL	4 / 15	GSEA C2REACTOME_Glutathione_Conjugation
36	-9.56	NULL	1 / 18	BP positive regulation of Ras GTPase activity
37	-9.56	NULL	1 / 18	BP retinol metabolic process
38	-9.47	NULL	1 / 5	GSEA C2TURASHVILI_BREAST_CARCINOMA_DUCTAL_VS_LOBLAR_U
39	-9.44	NULL	2 / 19	BP anatomical structure formation involved in morphogenesis
40	-9.35	NULL	1 / 11	BP neuronal stem cell maintenance



GW_091

Local Summary

%DE = 0.65
 # metagenes = 8
 # genes = 135
 # genes in genesets = 132

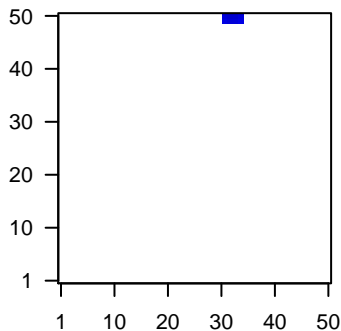
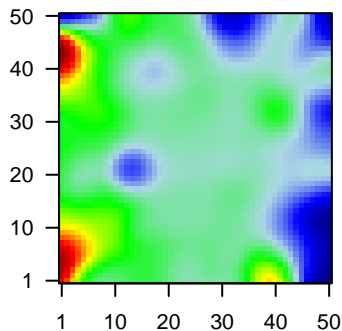
genes with $fdr < 0.1 = 67$ (0 + / 67 -)
 # genes with $fdr < 0.05 = 35$ (0 + / 35 -)
 # genes with $fdr < 0.01 = 15$ (0 + / 15 -)

<r> metagenes = 0.98
 <r> genes = 0.31

<FC> = -0.26
 <shrinkage-t> = -9.28
 <p-value> = 0.04
 <fdr> = 0.69

Profile

Spot



Local Genelist

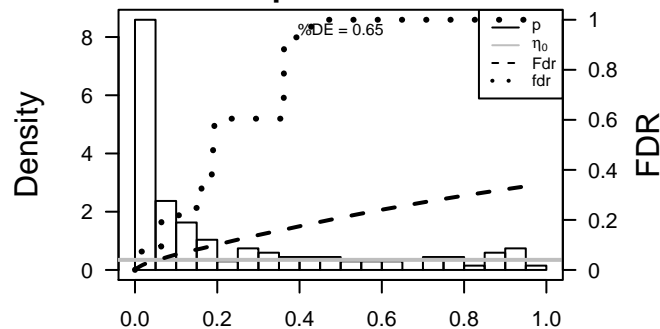
Rank	ID	log(FC)	fdr	p-value	Description
1	4724	-0.63	2e-05	2e-04	33 x 50 NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (P
2	7388	-0.63	2e-05	2e-04	33 x 50 ubiquinol-cytochrome c reductase hinge protein [Source:HG
3	1349	-0.63	2e-05	2e-04	33 x 50 cytochrome c oxidase subunit VIIb [Source:HGNC Symbol;Acc
4	64801	-0.63	2e-05	2e-04	33 x 50 ARV1 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:29
5	5423	-0.63	2e-05	1e-03	34 x 50 polymerase (DNA directed), beta [Source:HGNC Symbol;Acc
6	1340	-0.6	4e-05	1e-03	34 x 50 cytochrome c oxidase subunit VIb polypeptide 1 (ubiquitous)
7	3094	-0.54	8e-05	2e-03	32 x 50 histidine triad nucleotide binding protein 1 [Source:HGNC Syr
8	27089	-0.52	1e-04	2e-03	33 x 50 ubiquinol-cytochrome c reductase, complex III subunit VII, 9:
9	51074	-0.56	2e-04	2e-03	31 x 49 APAF1 interacting protein [Source:HGNC Symbol;Acc:17581]
10	29093	-0.54	3e-04	2e-03	33 x 50 mitochondrial ribosomal protein L22 [Source:HGNC Symbol;f
11	7386	-0.53	3e-04	2e-03	34 x 50 ubiquinol-cytochrome c reductase, Rieske iron-sulfur polype
12	653147	-0.53	3e-04	2e-03	34 x 50
13	10632	-0.53	4e-04	2e-03	32 x 49 ATP synthase, H+ transporting, mitochondrial Fo complex, su
14	10412	-0.52	4e-04	5e-03	31 x 49 NSA2 ribosome biogenesis homolog (S. cerevisiae) [Source:l
15	10190	-0.51	5e-04	9e-03	31 x 50 thioredoxin domain containing 9 [Source:HGNC Symbol;Acc:
16	57002	-0.5	7e-04	1e-02	34 x 50 Yae1 domain containing 1 [Source:HGNC Symbol;Acc:24857]
17	539	-0.49	1e-03	1e-02	32 x 50 ATP synthase, H+ transporting, mitochondrial F1 complex, O
18	54534	-0.48	1e-03	1e-02	31 x 50 mitochondrial ribosomal protein L50 [Source:HGNC Symbol;f
19	23421	-0.46	2e-03	1e-02	32 x 50 integrin beta 3 binding protein (beta3-endonexin) [Source:HC
20	139886	-0.45	2e-03	1e-02	31 x 50 spindlin family, member 4 [Source:HGNC Symbol;Acc:27040]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-33.43	NULL	24 / 83	BP respiratory electron transport chain
2	-24.25	NULL	24 / 152	BP cellular metabolic process
3	-20.39	NULL	31 / 304	CC mitochondrial inner membrane
4	-17.13	NULL	5 / 13	GSEA C2REACTOME_FORMATION_OF_ATP_BY_CHEMIOSMOTIC_COU
5	-16.49	NULL	9 / 34	MF NADH dehydrogenase (ubiquinone) activity
6	-16.47	NULL	5 / 14	BP mitochondrial ATP synthesis coupled proton transport
7	-15.99	NULL	9 / 36	CC mitochondrial respiratory chain complex I
8	-15.88	NULL	5 / 15	BP ATP synthesis coupled proton transport
9	-15.43	NULL	4 / 10	CC large ribosomal subunit
10	-15.42	NULL	8 / 35	BP mitochondrial respiratory transport, NADH to ubiquinone
11	-15.33	NULL	3 / 13	CC mitochondrial respiratory chain
12	-13.37	NULL	6 / 19	CC mitochondrial proton-transporting ATP synthase complex
13	-13.36	NULL	4 / 16	Cancer GENTLES_modul10
14	-13.12	NULL	4 / 12	BP oxidative phosphorylation
15	-12.29	NULL	5 / 26	MF cytochrome-c oxidase activity
16	-12.2	NULL	3 / 11	GSEA C2BIOCARTA_ETC_PATHWAY
17	-11.68	NULL	48 / 1318	CC mitochondrion
18	-9.9	NULL	3 / 20	BP aerobic respiration
19	-9.89	NULL	3 / 18	MF 2 iron, 2 sulfur cluster binding
20	-9.79	NULL	3 / 16	GSEA C2BARIS_THYROID_CANCER_UP
21	-9.27	NULL	2 / 15	GSEA C2NIKOLSKY_BREAST_CANCER_8P12_P11_AMPLICON
22	-9.13	NULL	3 / 16	BP mitochondrial respiratory chain complex I assembly
23	-8.63	NULL	3 / 19	BP ATP biosynthetic process
24	-8.54	NULL	2 / 11	GSEA C2REACTOME_MRNA_DECAY_BY_5_TO_3_EXORIBONUCLEASE
25	-8.36	NULL	3 / 11	Cancer GENTLES_modul5
26	-8.22	NULL	5 / 50	MF transmembrane transporter activity
27	-8.21	NULL	4 / 25	MF hydrogen ion transmembrane transporter activity
28	-8.15	NULL	29 / 1253	BP small molecule metabolic process
29	-8.06	NULL	15 / 153	MF structural constituent of ribosome
30	-7.83	NULL	2 / 8	GSEA C2REACTOME_REGULATION_OF_GENE_EXPRESSION_IN_BETA
31	-7.63	NULL	2 / 15	GSEA C2SMOOTHA_TCA
32	-7.57	NULL	14 / 167	CC ribosome
33	-7.49	NULL	1 / 2	miRNA target-375
34	-7.34	NULL	2 / 9	GSEA C2KEGG_RIBOSOME
35	-7.34	NULL	2 / 9	GSEA C2REACTOME_FORMATION_OF_A_POOL_OF_FREE_40S_SUBU
36	-7.34	NULL	2 / 9	GSEA C2REACTOME_GTP_HYDROLYSIS_AND_JOINING_OF_THE_60S
37	-7.34	NULL	2 / 9	GSEA C2REACTOME_INFLUENZA_VIRAL_RNA_TRANSCRIPTION_AND
38	-7.34	NULL	2 / 9	GSEA C2REACTOME_PEPTIDE_CHAIN_ELONGATION
39	-7.34	NULL	2 / 9	GSEA C2REACTOME_REGULATION_OF_BETA_CELL_DEVELOPMENT
40	-7.34	NULL	2 / 9	GSEA C2REACTOME_VIRAL_MRNA_TRANSLATION

p-values



GW_091

Local Summary

%DE = 0.9
 # metagenes = 2
 # genes = 71
 # genes in genesets = 70

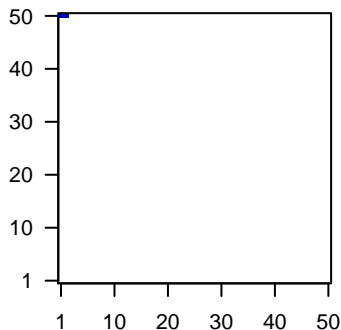
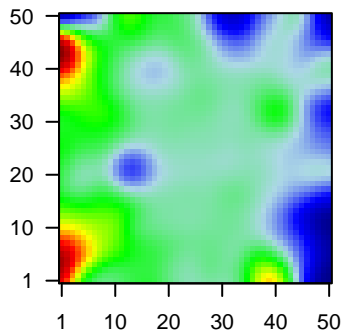
genes with $fdr < 0.1 = 58$ (14 + / 44 -)
 # genes with $fdr < 0.05 = 54$ (12 + / 42 -)
 # genes with $fdr < 0.01 = 51$ (11 + / 40 -)

$\langle r \rangle$ metagenes = 1
 $\langle r \rangle$ genes = 0.58

$\langle FC \rangle = -0.71$
 $\langle \text{shrinkage-t} \rangle = -25.06$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.25$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	131	-1.82	2e-16	7e-17	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
2	8644	-1.5	2e-16	7e-17	1 x 50 aldo-keto reductase family 1, member C3 [Source:HGNC Symbol;Acc:13543]
3	218	-2.7	2e-16	7e-17	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC Symbol;Acc:13543]
4	23120	-1.28	2e-16	7e-17	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543]
5	1048	-1.6	2e-16	7e-17	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [Source:HGNC Symbol;Acc:13543]
6	4680	-1.75	2e-16	7e-17	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 [Source:HGNC Symbol;Acc:13543]
7	22802	-1.85	2e-16	7e-17	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:13543]
8	49860	-3.23	2e-16	7e-17	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
9	1475	-1.66	2e-16	7e-17	1 x 50 cystatin A (steфин A) [Source:HGNC Symbol;Acc:2481]
10	1562	-1.5	2e-16	7e-17	1 x 50 cytochrome P450, family 2, subfamily C, polypeptide 18 [Source:HGNC Symbol;Acc:6415]
11	3860	-3.09	2e-16	7e-17	1 x 50 keratin 13 [Source:HGNC Symbol;Acc:6415]
12	192666	-2.1	2e-16	7e-17	1 x 50 keratin 24 [Source:HGNC Symbol;Acc:18527]
13	3851	-2.33	2e-16	7e-17	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]
14	196374	-1.25	2e-16	7e-17	1 x 50 keratin 78 [Source:HGNC Symbol;Acc:28926]
15	4118	-2.22	2e-16	7e-17	1 x 50 mal, T-cell differentiation protein [Source:HGNC Symbol;Acc:1126]
16	5275	-1.23	2e-16	7e-17	1 x 50 serpin peptidase inhibitor, clade B (ovalbumin), member 13 [Source:HGNC Symbol;Acc:1126]
17	11005	-1.68	2e-16	7e-17	1 x 50 serine peptidase inhibitor, Kazal type 5 [Source:HGNC Symbol;Acc:1126]
18	6707	-3.07	2e-16	7e-17	1 x 50 small proline-rich protein 3 [Source:HGNC Symbol;Acc:1126]
19	6947	-1.84	2e-16	7e-17	2 x 50 transcobalamin 1 (vitamin B12 binding protein, R binder family) [Source:HGNC Symbol;Acc:1126]
20	7053	-2.25	2e-16	7e-17	1 x 50 transglutaminase 3 [Source:HGNC Symbol;Acc:11779]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-30.41	NULL	39 / 135	H.Tiss WIRTH_Mucosa
2	-22.49	NULL	1 / 6	GSEA C2SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN
3	-18.93	NULL	4 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
4	-18.29	NULL	1 / 8	GSEA C2LIU_CDX2_TARGETS_DN
5	-17.8	NULL	3 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
6	-17.62	NULL	7 / 19	BP peptide cross-linking
7	-15.88	NULL	1 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
8	-15.19	NULL	3 / 13	BP negative regulation of peptidase activity
9	-14.93	NULL	1 / 11	GSEA C2MURAKAMI_UV_RESPONSE_6HR_DN
10	-13.62	NULL	1 / 9	GSEA C2NIKOLSKY_BREAST_CANCER_17P11_AMPLICON
11	-13.61	NULL	3 / 44	CC keratin filament
12	-12.54	NULL	4 / 82	CC intermediate filament
13	-12.15	NULL	2 / 15	MF retinol dehydrogenase activity
14	-12.14	NULL	1 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_B_DN
15	-10.95	NULL	10 / 186	MF structural molecule activity
16	-10.74	NULL	1 / 13	MF oxidoreductase activity, acting on the aldehyde or oxo group of donor
17	-10.26	NULL	1 / 14	GSEA C2KEGG_PHENYLALANINE_METABOLISM
18	-10.17	NULL	2 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
19	-10.14	NULL	12 / 53	BP keratinocyte differentiation
20	-9.95	NULL	1 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
21	-9.83	NULL	1 / 11	Glo VERHAAK_Brain
22	-9.75	NULL	1 / 5	GSEA C2NAKAMURA_LUNG_CANCER
23	-9.75	NULL	1 / 5	GSEA C2NAKAMURA_LUNG_CANCER_MARKERS
24	-9.63	NULL	3 / 38	BP epithelial cell differentiation
25	-9.41	NULL	1 / 12	GSEA C2ODONNELL_METASTASIS_DN
26	-9.41	NULL	1 / 12	GSEA C2SYED ESTRADIOL_RESPONSE
27	-9.29	NULL	1 / 12	MF channel activity
28	-9.16	NULL	1 / 9	GSEA C2REACTOME_ETHANOL_OXIDATION
29	-9.02	NULL	1 / 8	GSEA C2GRAHAM_CML QUIESCENT_VS_CML_DIVIDING_DN
30	-8.9	NULL	2 / 12	BP cellular aldehyde metabolic process
31	-8.83	NULL	1 / 13	GSEA C2HASLINGER_B_CLL_WITH_MUTATED_VH_GENES
32	-8.78	NULL	1 / 18	MF acyl-CoA dehydrogenase activity
33	-8.61	NULL	1 / 27	BP response to radiation
34	-8.16	NULL	2 / 13	H.Tiss WIRTH_Tonsil
35	-8.07	NULL	1 / 15	BP positive regulation of extrinsic apoptotic signaling pathway via death
36	-8.07	NULL	1 / 15	GSEA C2ALONSO_METASTASIS_NEURAL_UP
37	-8.07	NULL	1 / 15	GSEA C2BIOCARTA_MAL_PATHWAY
38	-7.86	NULL	1 / 10	BP anagen
39	-7.76	NULL	1 / 10	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_UP
40	-7.75	NULL	1 / 16	Cancer GENTLES_modul11

