

GW_177

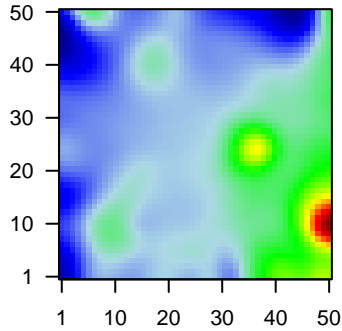
Global Summary

%DE = 0.16
 # genes with fdr < 0.2 = 2029 (1165 + / 864 -)
 # genes with fdr < 0.1 = 1617 (970 + / 647 -)
 # genes with fdr < 0.05 = 1393 (856 + / 537 -)
 # genes with fdr < 0.01 = 1016 (644 + / 372 -)

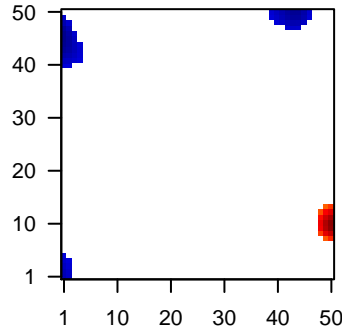
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.08
 <fdr> = 0.84

Profile



Regulated Spots



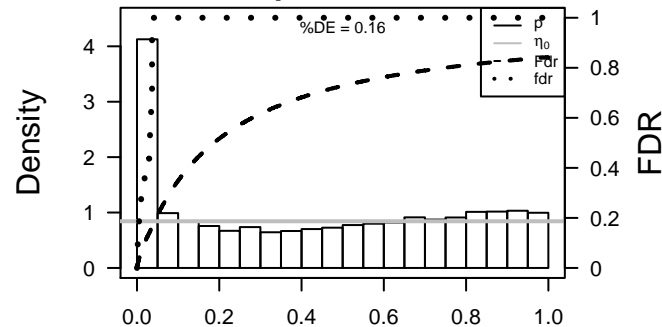
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	154664	2.25	2e-16	2e-14	50 x 50 ATP-binding cassette, sub-family A (ABC1), member 13 [Source:HGNC Symbol]
2	72	1.56	2e-16	2e-14	4 x 1 actin, gamma 2, smooth muscle, enteric [Source:HGNC Symbol]
3	124	2.39	2e-16	2e-14	50 x 11 alcohol dehydrogenase 1A (class I), alpha polypeptide [Source:HGNC Symbol]
4	126	2.17	2e-16	2e-14	50 x 12 alcohol dehydrogenase 1C (class I), gamma polypeptide [Source:HGNC Symbol]
5	131	1.76	2e-16	2e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide [Source:HGNC Symbol]
6	10551	2.63	2e-16	2e-14	50 x 10 anterior gradient 2 [Source:HGNC Symbol;Acc:328]
7	214	1.75	2e-16	2e-14	50 x 50 activated leukocyte cell adhesion molecule [Source:HGNC Symbol]
8	216	2.32	2e-16	2e-14	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC Symbol]
9	10840	1.64	2e-16	2e-14	50 x 12 aldehyde dehydrogenase 1 family, member L1 [Source:HGNC Symbol]
10	218	1.64	2e-16	2e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC Symbol]
11	347	2.24	2e-16	2e-14	50 x 7 apolipoprotein D [Source:HGNC Symbol;Acc:612]
12	479	1.78	2e-16	2e-14	7 x 50 ATPase, H+/K+ transporting, nongastric, alpha polypeptide [Source:HGNC Symbol]
13	563	1.91	2e-16	2e-14	50 x 10 alpha-2-glycoprotein 1, zinc-binding [Source:HGNC Symbol]
14	80341	2.83	2e-16	2e-14	50 x 10 BPI fold containing family B, member 2 [Source:HGNC Symbol]
15	79949	1.73	2e-16	2e-14	50 x 10 pleckstrin homology domain containing, family S member 1 [Source:HGNC Symbol]
16	144809	1.53	2e-16	2e-14	45 x 8 family with sequence similarity 216, member B [Source:HGNC Symbol]
17	339512	2.66	2e-16	2e-14	50 x 50 chromosome 1 open reading frame 110 [Source:HGNC Symbol]
18	92747	4.37	2e-16	2e-14	50 x 10 BPI fold containing family B, member 1 [Source:HGNC Symbol]
19	343990	1.56	2e-16	2e-14	50 x 12 KIAA1211-like [Source:HGNC Symbol;Acc:33454]
20	352999	3.14	2e-16	2e-14	50 x 10 chromosome 6 open reading frame 58 [Source:HGNC Symbol]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	22.18	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
2	10.71	NULL	51	Glio wilscher_GBM_Verhaak-PNmut_expression_G_down
3	9.74	NULL	24	TF Tissue/AQUERIZAS_Trachea
4	8.86	NULL	375	Disease GUDJ_poriasis_down
5	8.17	NULL	15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
6	8.06	NULL	9	GSEA C2REACTOME_ETHANOL_OXIDATION
7	7.97	NULL	13	GSEA C2VONG_ENDMETRIUM_CANCER_UP
8	6.62	NULL	15	CC MHC class II protein complex
9	6.42	NULL	13	GSEA C2YANG_BREAST_CANCER_ESR1_UP
10	6.4	NULL	16	GSEA C2TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_LOBULAR_CARCINOMA
11	6.32	NULL	7	GSEA C2NAKAMURA_BRONCHIAL_AND_BRONCHIOLAR_EPITHELIA
12	6.24	NULL	7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
13	6.09	NULL	7	GSEA C2LOPEZ_MESOTELIOMA_SURVIVAL_TIME_DN
14	6.03	NULL	10	Glio wilscher_GBM_LTSwt_proteomics-G_UP
15	5.96	NULL	85	Glio GIEZELT_GBM_STS_down_VS_LTS
16	5.75	NULL	16	TF Tissue/AQUERIZAS_Salivary_gland
17	5.7	NULL	14	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_UP
18	5.64	NULL	15	GSEA C2POOLA_INVASIVE_BREAST_CANCER_DN
19	5.6	NULL	19	BP calcium-independent_cell-cell_adhesion
20	5.56	NULL	76	Glio GIEZELT_GBM_STSwt_up_VS_LTSwt
<i>Underexpressed</i>				
1	-21.21	NULL	572	Disease GUDJ_poriasis_up
2	-17.07	NULL	142	Glio wilscher_GBM_Verhaak-CL_expression_C_up
3	-17.07	NULL	142	Glio wilscher_GBM_Verhaak-PNmut_expression_C_down
4	-12.65	NULL	21	CC cornified_envelope
5	-11.62	NULL	370	BP mitotic_cell_cycle
6	-11.18	NULL	42	BP keratinization
7	-10.56	NULL	53	BP keratinocyte_differentiation
8	-10.5	NULL	76	BP epidermis_development
9	-9.69	NULL	64	BP collagen_catabolic_process
10	-9.48	NULL	530	Cancer Lembecke_Normal_vs_Adenoma
11	-9.22	NULL	69	BP extracellular_matrix_disassembly
12	-9.05	NULL	242	BP extracellular_matrix_organization
13	-8.63	NULL	11	MF platelet-derived_growth_factor_binding
14	-8.36	NULL	16	MMML C6A_CIEJ_MMML_1
15	-8.28	NULL	10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
16	-7.85	NULL	16	Cancer RHODES_UNDIFFERENTIATED_CANCER
17	-7.8	NULL	15	GSEA C2SMID_BREAST_CANCER_LUMINAL_A_DN
18	-7.8	NULL	949	CC nucleoplasm
19	-7.51	NULL	190	CC extracellular_matrix
20	-7.45	NULL	135	H.Tiss WIRTH_Mucosa

p-values



GW_177

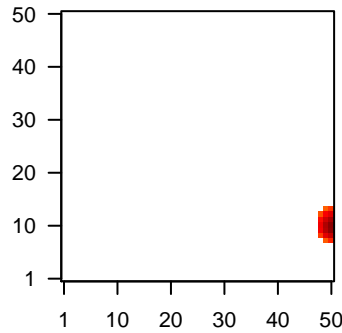
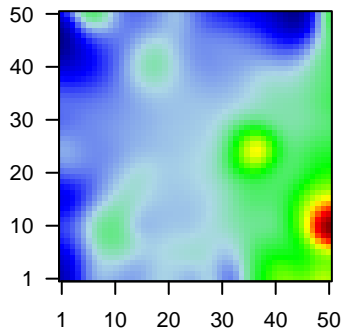
Local Summary

%DE = 0.92
 # metagenes = 19
 # genes = 210
 # genes in genesets = 207
 # genes with $fdr < 0.1$ = 184 (180 + / 4 -)
 # genes with $fdr < 0.05$ = 180 (178 + / 2 -)
 # genes with $fdr < 0.01$ = 162 (160 + / 2 -)

$\langle r \rangle$ metagenes = 0.93
 $\langle r \rangle$ genes = 0.27
 $\langle FC \rangle$ = 1.18
 $\langle \text{shrinkage-t} \rangle$ = 41.3
 $\langle p\text{-value} \rangle$ = 0
 $\langle fdr \rangle$ = 0.16

Profile

Spot



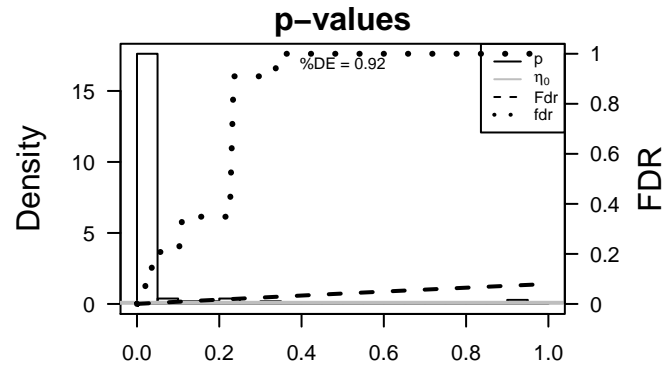
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	124	2.39	2e-16	7e-17	50 x 11 alcohol dehydrogenase 1A (class I), alpha polypeptide [Source:HGNC Symbol;Acc:33454]
2	126	2.17	2e-16	7e-17	50 x 12 alcohol dehydrogenase 1C (class I), gamma polypeptide [Source:HGNC Symbol;Acc:33454]
3	10551	2.63	2e-16	7e-17	50 x 10 anterior gradient 2 [Source:HGNC Symbol;Acc:328]
4	10840	1.64	2e-16	7e-17	50 x 12 aldehyde dehydrogenase 1 family, member L1 [Source:HGNC Symbol;Acc:33454]
5	563	1.91	2e-16	7e-17	50 x 10 alpha-2-glycoprotein 1, zinc-binding [Source:HGNC Symbol;Acc:33454]
6	80341	2.83	2e-16	7e-17	50 x 10 BPI fold containing family B, member 2 [Source:HGNC Symbol;Acc:33454]
7	79949	1.73	2e-16	7e-17	50 x 10 pleckstrin homology domain containing, family S member 1 [Source:HGNC Symbol;Acc:33454]
8	92747	4.37	2e-16	7e-17	50 x 10 BPI fold containing family B, member 1 [Source:HGNC Symbol;Acc:33454]
9	343990	1.56	2e-16	7e-17	50 x 12 KIAA1211-like [Source:HGNC Symbol;Acc:33454]
10	352999	3.14	2e-16	7e-17	50 x 10 chromosome 6 open reading frame 58 [Source:HGNC Symbol;Acc:33454]
11	401546	1.73	2e-16	7e-17	50 x 11 chromosome 9 open reading frame 152 [Source:HGNC Symbol;Acc:33454]
12	92291	1.65	2e-16	7e-17	50 x 11 calpain 13 [Source:HGNC Symbol;Acc:16663]
13	148170	1.67	2e-16	7e-17	50 x 9 CDC42 effector protein (Rho GTPase binding) 5 [Source:HGNC Symbol;Acc:33454]
14	83539	1.69	2e-16	7e-17	50 x 11 carbohydrate (N-acetyl)galactosamine 4-O sulfotransferase 6 [Source:HGNC Symbol;Acc:33454]
15	9071	1.86	2e-16	7e-17	50 x 12 claudin 10 [Source:HGNC Symbol;Acc:2033]
16	54102	2.32	2e-16	7e-17	50 x 10 chloride intracellular channel 6 [Source:HGNC Symbol;Acc:21]
17	1755	2.08	2e-16	7e-17	50 x 10 deleted in malignant brain tumors 1 [Source:HGNC Symbol;Acc:33454]
18	283229	1.95	2e-16	7e-17	50 x 10 EF-hand calcium binding domain 4A [Source:HGNC Symbol;Acc:33454]
19	8857	2.4	2e-16	7e-17	50 x 13 Fc fragment of IgG binding protein [Source:HGNC Symbol;Acc:33454]
20	2327	1.86	2e-16	7e-17	50 x 11 flavin containing monooxygenase 2 (non-functional) [Source:HGNC Symbol;Acc:33454]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	44.69	NULL	11 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
2	16.35	NULL	3 / 14	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_D
3	14.72	NULL	3 / 13	GSEA C2WONG_ENDMETRIUM_CANCER_UP
4	14.7	NULL	3 / 7	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_DN
5	13.17	NULL	5 / 16	GSEA C2TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_LOBULAR_D
6	12.33	NULL	5 / 15	GSEA C2POOLA_INVASIVE_BREAST_CANCER_DN
7	12.18	NULL	2 / 5	GSEA C2SMID_BREAST_CANCER_ERBB2_DN
8	11.78	NULL	4 / 16	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_D
9	11.36	NULL	1 / 5	GSEA C2FERRARI_RESPONSE_TO_FENRETINIDE_DN
10	11.21	NULL	3 / 15	GSEA C2SABATES_COLORECTAL_ADENOMA_UP
11	11.02	NULL	2 / 10	GSEA C2LIU_THYROID_CANCER_CLUSTER_5
12	10.4	NULL	3 / 7	TF Tissue/AQUERIZAS_Appendix
13	9.88	NULL	3 / 16	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_D
14	9.77	NULL	2 / 9	GSEA C2REACTOME_ETHANOL_OXIDATION
15	9.52	NULL	2 / 16	GSEA C2DOANE_BREAST_CANCER_ESR1_DN
16	9.28	NULL	2 / 14	GSEA C2WANG_BARRETTES_ESOPHAGUS_UP
17	9.1	NULL	3 / 16	GSEA C2ROY_WOUND_BLOOD_VESSEL_DN
18	8.92	NULL	2 / 13	GSEA C2NING_CHRONIC_OBSTRUCTIVE_PULMONARY_DISEASE_DN
19	8.69	NULL	2 / 7	GSEA C2NAKAMURA_BRONCHIAL_AND_BRONCHIOLAR_EPITHELIA
20	8.4	NULL	29 / 375	Disease GUDJ_psoriasis down
21	8.37	NULL	3 / 10	GSEA C2YAMASHITA_LIVER_CANCER_WITH_EPCAM_DN
22	8.02	NULL	1 / 15	Cancer LIU_PROSTATE_CANCER_DN
23	8.01	NULL	2 / 8	GSEA C2NAKAMURA_LUNG_CANCER_DIFFERENTIATION_MARKERS
24	8	NULL	36 / 1182	CC extracellular region
25	7.99	NULL	2 / 12	GSEA C2BERTUCCI_INVASIVE_CARCINOMA_DUCTAL_VS_LOBULAR_D
26	7.93	NULL	1 / 9	GSEA C2SOUYER_TATL_TARGETS_UP
27	7.88	NULL	4 / 21	BP drug metabolic process
28	7.86	NULL	4 / 15	GSEA C2TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_DUCTAL_D
29	7.78	NULL	3 / 16	GSEA C2YANG_BREAST_CANCER_ESR1_BULK_UP
30	7.77	NULL	3 / 14	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LUNG_DN
31	7.76	NULL	2 / 15	GSEA C2IN_SILENCED_BY_TUMOR_MICROENVIRONMENT
32	7.62	NULL	2 / 13	GSEA C2BOYALT_LIVER_CANCER_SUBCLASS_G3_DN
33	7.62	NULL	2 / 15	GSEA C2TAKEDA_TARGETS_OF_NUP98_HOX9_FUSION_16D_DN
34	7.57	NULL	2 / 11	CC photoreceptor outer segment membrane
35	7.56	NULL	2 / 17	BP iron ion transport
36	7.51	NULL	3 / 16	GSEA C2AIYAR_COBRA1_TARGETS_UP
37	7.4	NULL	2 / 15	GSEA C2VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_DN
38	7.27	NULL	1 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
39	7.23	NULL	5 / 61	CC secretory granule
40	7.19	NULL	2 / 10	Glio willscher_GBM_TSLwt_proteomics-G_UP



GW_177

Local Summary

%DE = 0.89
 # metagenes = 9
 # genes = 171
 # genes in genesets = 169

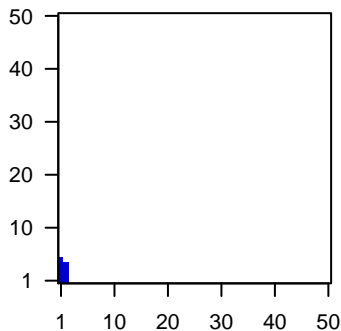
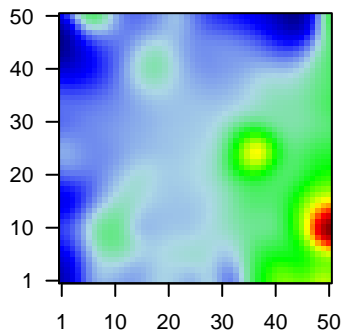
genes with $fdr < 0.1 = 134$ (8 + / 126 -)
 # genes with $fdr < 0.05 = 134$ (8 + / 126 -)
 # genes with $fdr < 0.01 = 99$ (6 + / 93 -)

<r> metagenes = 0.98
 <r> genes = 0.38

<FC> = -0.58
 <shrinkage-t> = -20.47
 <p-value> = 0
 <fdr> = 0.34

Profile

Spot



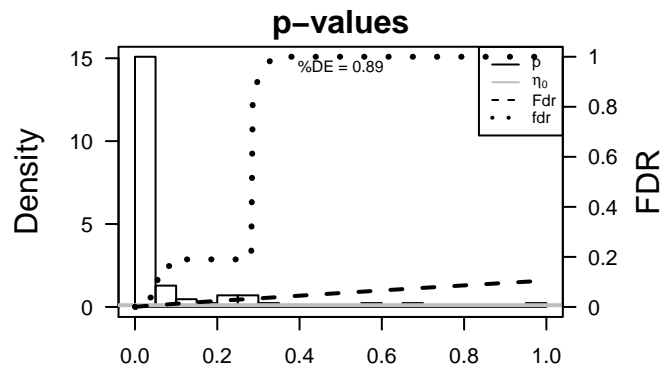
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	1277	-2.25	2e-16	3e-16	2 x 1 collagen, type I, alpha 1 [Source:HGNC Symbol;Acc:2197]
2	1281	-1.81	2e-16	3e-16	2 x 1 collagen, type III, alpha 1 [Source:HGNC Symbol;Acc:2201]
3	1282	-1.85	2e-16	3e-16	2 x 1 collagen, type IV, alpha 1 [Source:HGNC Symbol;Acc:2202]
4	1290	-1.69	2e-16	3e-16	2 x 1 collagen, type V, alpha 2 [Source:HGNC Symbol;Acc:2210]
5	1293	-1.64	2e-16	3e-16	2 x 1 collagen, type VI, alpha 3 [Source:HGNC Symbol;Acc:2213]
6	3553	-1.71	2e-16	3e-16	1 x 1 interleukin 1, beta [Source:HGNC Symbol;Acc:5992]
7	3576	-1.68	2e-16	3e-16	1 x 1 interleukin 8 [Source:HGNC Symbol;Acc:6025]
8	4060	-1.73	2e-16	3e-16	2 x 1 lumican [Source:HGNC Symbol;Acc:6724]
9	4312	-2.61	2e-16	3e-16	1 x 1 matrix metalloproteinase 1 (interstitial collagenase) [Source:H
10	4314	-2.54	2e-16	3e-16	1 x 1 matrix metalloproteinase 3 (stromelysin 1, progelatinase) [Sou
11	5328	-1.83	2e-16	3e-16	1 x 3 plasminogen activator, urokinase [Source:HGNC Symbol;Acc
12	12	3.12	2e-16	3e-16	1 x 1
13	5054	-1.55	2e-16	3e-16	1 x 2 serpin peptidase inhibitor, clade E (nexin, plasminogen activa
14	1278	-1.5	1e-15	4e-14	2 x 1 collagen, type I, alpha 2 [Source:HGNC Symbol;Acc:2198]
15	7045	-1.35	4e-15	4e-14	1 x 2 transforming growth factor, beta-induced, 68kDa [Source:HG
16	4502	-1.47	5e-15	8e-13	1 x 3 metallothionein 2A [Source:HGNC Symbol;Acc:7406]
17	857	-1.41	5e-14	9e-12	1 x 4 caveolin 1, caveolae protein, 22kDa [Source:HGNC Symbol;A
18	7058	-1.35	6e-13	2e-11	2 x 1 thrombospondin 2 [Source:HGNC Symbol;Acc:11786]
19	11098	1.32	2e-12	3e-11	1 x 1 protease, serine, 23 [Source:HGNC Symbol;Acc:14370]
20	10631	-1.3	3e-12	6e-11	2 x 1 periostin, osteoblast specific factor [Source:HGNC Symbol;Ac

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-36.12	NULL	6 / 11	MF platelet-derived growth factor binding
2	-34.46	NULL	10 / 16	MMML C6ACIEJ_MMML 1
3	-31.6	NULL	6 / 12	miRNA target-29c
4	-30.8	NULL	19 / 64	BP collagen catabolic process
5	-30.16	NULL	20 / 69	BP extracellular matrix disassembly
6	-27.27	NULL	45 / 242	BP extracellular matrix organization
7	-26.55	NULL	33 / 190	CC extracellular matrix
8	-25.98	NULL	7 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
9	-25.83	NULL	10 / 40	BP cellular response to amino acid stimulus
10	-25.24	NULL	10 / 37	BP collagen fibril organization
11	-24.53	NULL	10 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
12	-22.8	NULL	4 / 11	GSEA C2BIOCARTA_PLATELETAPP_PATHWAY
13	-22.02	NULL	12 / 57	MF extracellular matrix structural constituent
14	-21.49	NULL	6 / 10	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C4
15	-19.1	NULL	3 / 10	BP protein heterotrimerization
16	-18.63	NULL	29 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
17	-18.63	NULL	29 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
18	-18.63	NULL	29 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
19	-18.63	NULL	29 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
20	-18.55	NULL	4 / 11	Glio Phillips MES up vs Prolif & PN
21	-18.13	NULL	35 / 250	LymphomaL1ENZ_Stromal signature 1
22	-17.79	NULL	2 / 6	GSEA C2SEIKE_LUNG_CANCER_POOR_SURVIVAL
23	-17.09	NULL	9 / 35	Colman_survival_associated
24	-16.93	NULL	53 / 683	CC extracellular space
25	-16.91	NULL	6 / 15	GSEA C2LEE_LIVER_CANCER_HEPATOBLAST
26	-16.62	NULL	4 / 10	GSEA C2KEGG_ECM_RECEPTOR_INTERACTION
27	-16.44	NULL	9 / 68	CC collagen
28	-16.2	NULL	3 / 12	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C2
29	-16.2	NULL	2 / 8	GSEA C2OSAWA_TNF_TARGETS
30	-16.14	NULL	4 / 9	GSEA C2ZERBINI_RESPONSE_TO_SULINDAC_UP
31	-15.85	NULL	3 / 10	GSEA C2YENGAR_RESPONSE_TO_ADIPOCYTE_FACTORS
32	-15.85	NULL	72 / 1182	CC extracellular region
33	-15.79	NULL	16 / 153	CC endoplasmic reticulum lumen
34	-15.71	NULL	2 / 7	Glio KIM_epithelial-mesenchymal-transition related genes_decreased
35	-15.62	NULL	2 / 12	GSEA C2SEISS_RESPONSE_TO_DSRNA_DN
36	-15.51	NULL	6 / 15	GSEA C2ONDER_CDH1_SIGNALING_VIA_CTNNB1
37	-15.23	NULL	1 / 5	GSEA C2XFORD_RALA_AND_RALB_TARGETS_UP
38	-15.09	NULL	5 / 15	GSEA C2ONDER_CDH1_TARGETS_2_UP
39	-14.92	NULL	4 / 16	GSEA C2CROONQUIST_STROMAL_STIMULATION_UP
40	-14.72	NULL	3 / 11	GSEA C2REACTOME_PLATELET_ADHESION_TO_EXPOSED_COLLAGE



GW_177

Local Summary

%DE = 0.87
 # metagenes = 29
 # genes = 344
 # genes in genesets = 336

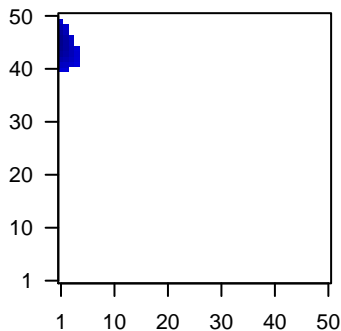
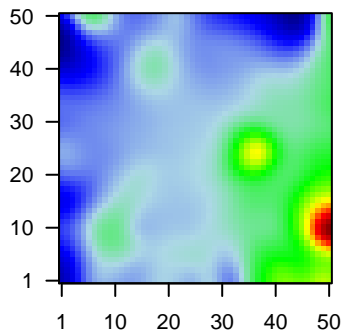
genes with $fdr < 0.1 = 250$ (16 + / 234 -)
 # genes with $fdr < 0.05 = 249$ (16 + / 233 -)
 # genes with $fdr < 0.01 = 190$ (7 + / 183 -)

<r> metagenes = 0.9
 <r> genes = 0.36

<FC> = -0.61
 <shrinkage-t> = -21.62
 <p-value> = 0
 <fdr> = 0.36

Profile

Spot



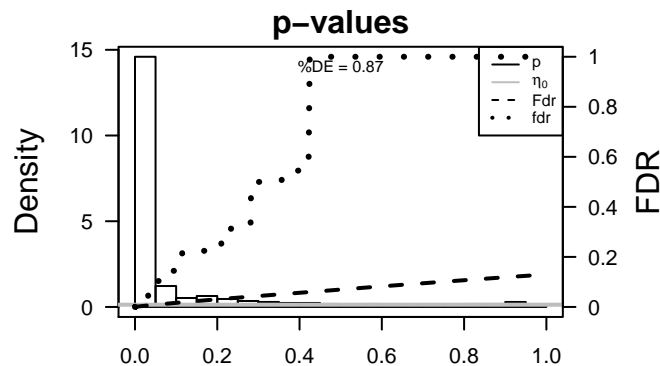
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	414325	-2.37	2e-16	4e-16	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
2	1673	-2.42	2e-16	4e-16	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
3	1828	-1.68	2e-16	4e-16	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
4	2697	-1.96	2e-16	4e-16	1 x 44 gap junction protein, alpha 1, 43kDa [Source:HGNC Symbol;Acc:3048]
5	10804	-1.82	2e-16	4e-16	1 x 47 gap junction protein, beta 6, 30kDa [Source:HGNC Symbol;Acc:3048]
6	3552	-2.5	2e-16	4e-16	1 x 43 interleukin 1, alpha [Source:HGNC Symbol;Acc:5991]
7	56300	-2.19	2e-16	4e-16	1 x 47 interleukin 36, gamma [Source:HGNC Symbol;Acc:15741]
8	5650	-1.6	2e-16	4e-16	1 x 49 kallikrein-related peptidase 7 [Source:HGNC Symbol;Acc:631]
9	3861	-1.74	2e-16	4e-16	1 x 45 keratin 14 [Source:HGNC Symbol;Acc:6416]
10	3868	-2.28	2e-16	4e-16	1 x 46 keratin 16 [Source:HGNC Symbol;Acc:6423]
11	286887	-3.34	2e-16	4e-16	1 x 47 keratin 6C [Source:HGNC Symbol;Acc:20406]
12	388533	-3.31	2e-16	4e-16	1 x 49 keratinocyte differentiation-associated protein [Source:HGNC Symbol;Acc:20406]
13	84648	-2.25	2e-16	4e-16	1 x 48 late cornified envelope 3D [Source:HGNC Symbol;Acc:16615]
14	55214	-1.67	2e-16	4e-16	1 x 42 leprecan-like 1 [Source:HGNC Symbol;Acc:19317]
15	3963	-1.99	2e-16	4e-16	1 x 47 lectin, galactoside-binding, soluble, 7 [Source:HGNC Symbol;Acc:19317]
16	653499	-2.02	2e-16	4e-16	1 x 47 lectin, galactoside-binding, soluble, 7 [Source:HGNC Symbol;Acc:19317]
17	5266	-1.65	2e-16	4e-16	1 x 49 peptidase inhibitor 3, skin-derived [Source:HGNC Symbol;Acc:19317]
18	5744	-1.73	2e-16	4e-16	1 x 43 parathyroid hormone-like hormone [Source:HGNC Symbol;Acc:19317]
19	84659	-1.54	2e-16	4e-16	1 x 48 ribonuclease, RNase A family, 7 [Source:HGNC Symbol;Acc:19317]
20	6283	-1.68	2e-16	4e-16	1 x 49 S100 calcium binding protein A12 [Source:HGNC Symbol;Acc:19317]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-23.24	NULL	22 / 76	BP epidermis development
2	-23.21	NULL	98 / 572	Disease GUDJ_psooriasis up
3	-19.77	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
4	-18.02	NULL	44 / 135	H.Tiss WIRTH_Mucosa
5	-16.84	NULL	21 / 82	CC intermediate filament
6	-16.63	NULL	14 / 53	BP keratinocyte differentiation
7	-15.4	NULL	10 / 44	CC keratin filament
8	-15.34	NULL	8 / 21	CC cornified envelope
9	-15.28	NULL	3 / 10	MF RAGE receptor binding
10	-14.93	NULL	11 / 21	CC desmosome
11	-13.98	NULL	5 / 16	GSEA C2ONDER_CDHI1_TARGETS_3_DN
12	-13.35	NULL	7 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATE
13	-13.3	NULL	4 / 12	GSEA C2REACTOME_GAP_JUNCTION_ASSEMBLY
14	-12.89	NULL	9 / 42	BP keratinization
15	-12.7	NULL	3 / 15	MF interleukin-1 receptor binding
16	-12.63	NULL	4 / 13	GSEA C2REACTOME_GAP_JUNCTION_TRAFFICKING
17	-12.58	NULL	3 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
18	-11.73	NULL	4 / 15	CC connexon complex
19	-11.1	NULL	4 / 13	BP intermediate filament cytoskeleton organization
20	-11.01	NULL	3 / 8	GSEA C2LIU_CDX2_TARGETS_DN
21	-10.97	NULL	5 / 21	CC gap junction
22	-10.82	NULL	1 / 4	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_DN
23	-10.01	NULL	4 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
24	-9.94	NULL	3 / 10	MF gap junction channel activity
25	-9.92	NULL	4 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
26	-9.42	NULL	22 / 186	MF structural molecule activity
27	-9.32	NULL	6 / 15	GSEA C2AIGNER_ZEB1_TARGETS
28	-9.24	NULL	5 / 12	BP hemidesmosome assembly
29	-9.05	NULL	10 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
30	-8.92	NULL	4 / 25	BP response to zinc ion
31	-8.52	NULL	1 / 6	GSEA C2SEIKE_LUNG_CANCER_POOR_SURVIVAL
32	-8.41	NULL	12 / 82	MF structural constituent of cytoskeleton
33	-8.3	NULL	4 / 38	BP epithelial cell differentiation
34	-8.2	NULL	2 / 6	GSEA C2WALLACE_PROSTATE_CANCER_DN
35	-8.2	NULL	4 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
36	-8.15	NULL	3 / 11	GSEA C2EL_MYB_TARGETS
37	-7.87	NULL	2 / 16	BP response to reactive oxygen species
38	-7.83	NULL	4 / 16	GSEA C2ELVIDGE_HIF1A_TARGETS_DN
39	-7.54	NULL	4 / 16	GSEA C2ELVIDGE_HIF1A_AND_HIF2A_TARGETS_DN
40	-7.5	NULL	2 / 2	miRNA target-199a*



GW_177

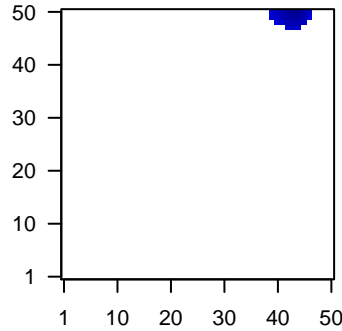
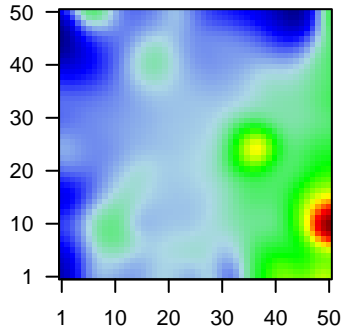
Local Summary

%DE = 0.93
 # metagenes = 25
 # genes = 370
 # genes in genesets = 367
 # genes with $fdr < 0.1$ = 328 (3 + / 325 -)
 # genes with $fdr < 0.05$ = 286 (0 + / 286 -)
 # genes with $fdr < 0.01$ = 219 (0 + / 219 -)

<r> metagenes = 0.94
 <r> genes = 0.36
 <FC> = -0.52
 <shrinkage-t> = -18.2
 <p-value> = 0
 <fdr> = 0.4

Profile

Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	55165	-1.33	1e-12	2e-11	44 x 50 centrosomal protein 55kDa [Source:HGNC Symbol;Acc:1161]
2	7083	-1.32	2e-12	2e-10	45 x 49 thymidine kinase 1, soluble [Source:HGNC Symbol;Acc:1183]
3	51659	-1.28	8e-12	1e-09	44 x 50 GINS complex subunit 2 (Psf2 homolog) [Source:HGNC Sym
4	1164	-1.23	6e-11	1e-08	44 x 50 CDC28 protein kinase regulatory subunit 2 [Source:HGNC Sy
5	9055	-1.15	8e-10	1e-08	45 x 49 protein regulator of cytokinesis 1 [Source:HGNC Symbol;Acc:
6	8318	-1.15	8e-10	2e-07	45 x 49 cell division cycle 45 [Source:HGNC Symbol;Acc:1739]
7	1033	-1.06	1e-08	2e-07	43 x 50 cyclin-dependent kinase inhibitor 3 [Source:HGNC Symbol;A
8	8836	-1.05	2e-08	2e-07	40 x 50 gamma-glutamyl hydrolase (conjugase, folicypolygamaggluta
9	29089	-1.04	3e-08	2e-07	45 x 49 ubiquitin-conjugating enzyme E2T (putative) [Source:HGNC
10	3992	-1.04	3e-08	2e-07	45 x 50 fatty acid desaturase 1 [Source:HGNC Symbol;Acc:3574]
11	6790	-1.04	3e-08	2e-07	44 x 50 aurora kinase A [Source:HGNC Symbol;Acc:11393]
12	55839	-1.03	4e-08	2e-07	44 x 50 centromere protein N [Source:HGNC Symbol;Acc:30873]
13	64151	-1.02	5e-08	3e-07	44 x 48 non-SMC condensin I complex, subunit G [Source:HGNC Sy
14	51203	-1.01	7e-08	3e-07	45 x 48 nucleolar and spindle associated protein 1 [Source:HGNC Sy
15	54443	-1.01	8e-08	3e-07	43 x 50 anillin, actin binding protein [Source:HGNC Symbol;Acc:1408
16	9833	-1	9e-08	3e-07	44 x 50 maternal embryonic leucine zipper kinase [Source:HGNC Syr
17	9212	-1	1e-07	3e-07	45 x 48 aurora kinase B [Source:HGNC Symbol;Acc:11390]
18	1163	-1	1e-07	3e-07	44 x 50 CDC28 protein kinase regulatory subunit 1B [Source:HGNC S
19	113130	-0.99	1e-07	3e-07	44 x 49 cell division cycle associated 5 [Source:HGNC Symbol;Acc:1
20	22974	-0.99	1e-07	3e-07	44 x 50 TPX2, microtubule-associated [Source:HGNC Symbol;Acc:1

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-54.36	NULL	75 / 142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	-54.36	NULL	75 / 142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	-32.38	NULL	13 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_2
4	-27.51	NULL	12 / 14	MMML C6SCIEJ_MMML_4
5	-27.43	NULL	8 / 10	GSEA C2MONTERO_THYROID_CANCER_POOR_SURVIVAL_UP
6	-26.96	NULL	14 / 16	GSEA C2FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL
7	-26.88	NULL	80 / 370	BP mitotic cell cycle
8	-25.56	NULL	10 / 13	GSEA C2CROONQUIST_IL6_DEPRIVATION_DN
9	-25.35	NULL	13 / 15	GSEA C2FINETTI_BREAST_CANCER_KINOME_RED
10	-25.34	NULL	20 / 57	Glio developing astrocytes
11	-24.68	NULL	10 / 14	GSEA C2ZHAN_MULTIPLE_MYELOMA_PR_UP
12	-24.19	NULL	10 / 15	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
13	-22.62	NULL	9 / 15	GSEA C2SMID_BREAST_CANCER_LUMINAL_A_DN
14	-22.5	NULL	67 / 572	Disease GUDJ_psooriasis_up
15	-22.35	NULL	12 / 18	BP spindle organization
16	-22.18	NULL	76 / 530	Cancer Lembcke_Normal vs Adenoma
17	-21.19	NULL	10 / 16	GSEA C2EGUCHI_CELL_CYCLE_RB1_TARGETS
18	-20.91	NULL	9 / 15	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_DN
19	-20.04	NULL	9 / 16	GSEA C2KANG_DOXORUBICIN_RESISTANCE_UP
20	-19.75	NULL	7 / 16	Cancer RHODES_UNDIFFERENTIATED_CANCER
21	-19.33	NULL	8 / 15	GSEA C2LEE_EARLY_T_LYMPHOCYTE_UP
22	-19.3	NULL	9 / 16	GSEA C2CROONQUIST_NRAS_SIGNALING_DN
23	-19.1	NULL	43 / 232	BP mitosis
24	-18.53	NULL	8 / 13	GSEA C2WINPENNINGCX_MELANOMA_METASTASIS_UP
25	-18.16	NULL	8 / 14	GSEA C2ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
26	-17.9	NULL	8 / 11	BP mitotic metaphase plate congression
27	-17.33	NULL	10 / 15	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
28	-17.04	NULL	7 / 14	GSEA C2AMUNDSON_GAMMA_RADIATION_RESPONSE
29	-16.93	NULL	18 / 56	CC chromosome, centromeric region
30	-16.72	NULL	7 / 15	GSEA C2CHANG_CYCLING_GENES
31	-16.63	NULL	4 / 9	GSEA C2KUMAMOTO_RESPONSE_TO_NUTLIN_3A_DN
32	-16.62	NULL	9 / 16	Cancer WOLFIER_overlap genes
33	-16.14	NULL	7 / 16	GSEA C2GRAHAM_NORMAL QUIESCENT_VS_NORMAL_DIVIDING_DN
34	-16.04	NULL	7 / 16	GSEA C2CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP
35	-16.03	NULL	6 / 16	GSEA C2SCIAN_CELL_CYCLE_TARGETS_OF_TP53_AND_TP73_DN
36	-15.92	NULL	6 / 13	GSEA C2REN_BOUND_BY_E2F
37	-15.83	NULL	6 / 15	GSEA C2TANG_SENESCENCE_TP53_TARGETS_DN
38	-15.72	NULL	7 / 15	GSEA C2LY_AGING_MIDDLE_DN
39	-14.92	NULL	86 / 949	CC nucleoplasm
40	-14.91	NULL	6 / 15	GSEA C2NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_UP

p-values

