

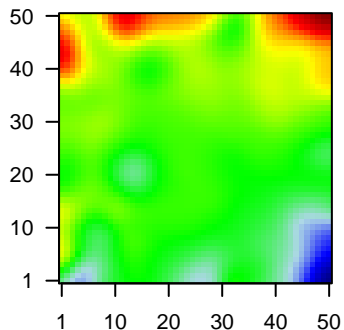
GW_241

Global Summary

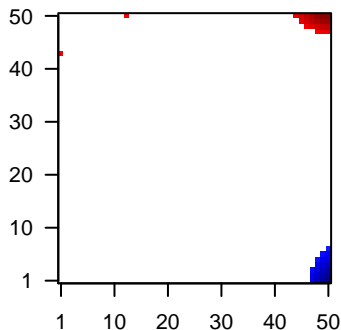
%DE = 0.14
 # genes with fdr < 0.2 = 1757 (964 + / 793 -)
 # genes with fdr < 0.1 = 1350 (758 + / 592 -)
 # genes with fdr < 0.05 = 1085 (625 + / 460 -)
 # genes with fdr < 0.01 = 756 (448 + / 308 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.12
 <fdr> = 0.86

Profile



Regulated Spots



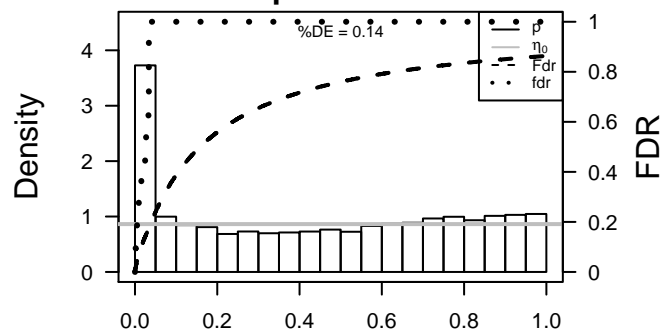
Global Genelist

Rank	ID	log(FC)	fdr p-value	Description Metagene
1	154664	1.83	2e-16 5e-14	50 x 50 ATP-binding cassette, sub-family A (ABC1), member 13 [Source:HGNC Symbol;Acc:90882]
2	242	1.84	2e-16 5e-14	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Symbol;Acc:90882]
3	55107	2.18	2e-16 5e-14	1 x 5 anoctamin 1, calcium activated chloride channel [Source:HGNC Symbol;Acc:90882]
4	10409	-1.47	2e-16 5e-14	1 x 2 brain abundant, membrane attached signal protein 1 [Source:HGNC Symbol;Acc:90882]
5	599	1.4	2e-16 5e-14	3 x 42 BCL2-like 2 [Source:HGNC Symbol;Acc:995]
6	148170	-1.38	2e-16 5e-14	50 x 9 CDC42 effector protein (Rho GTPase binding) 5 [Source:HGNC Symbol;Acc:90882]
7	9076	1.79	2e-16 5e-14	49 x 50 claudin 1 [Source:HGNC Symbol;Acc:2032]
8	54102	1.5	2e-16 5e-14	50 x 10 chloride intracellular channel 6 [Source:HGNC Symbol;Acc:21000]
9	49860	-2.37	2e-16 5e-14	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
10	57007	2.05	2e-16 5e-14	14 x 50 atypical chemokine receptor 3 [Source:HGNC Symbol;Acc:23000]
11	8632	1.52	2e-16 5e-14	1 x 8 dynein, axonemal, heavy chain 17 [Source:HGNC Symbol;Acc:90882]
12	8772	1.55	2e-16 5e-14	1 x 14 Fas (TNFRSF6)-associated via death domain [Source:HGNC Symbol;Acc:90882]
13	10457	1.71	2e-16 5e-14	13 x 50 glycoprotein (transmembrane) nmb [Source:HGNC Symbol;Acc:90882]
14	2877	1.42	2e-16 5e-14	1 x 50 glutathione peroxidase 2 (gastrointestinal) [Source:HGNC Symbol;Acc:90882]
15	2941	1.63	2e-16 5e-14	3 x 50 glutathione S-transferase alpha 4 [Source:HGNC Symbol;Acc:90882]
16	121355	1.96	2e-16 5e-14	14 x 11 gametocyte specific factor 1 [Source:HGNC Symbol;Acc:26500]
17	283120	-2.13	2e-16 5e-14	25 x 1 H19, imprinted maternally expressed transcript (non-protein coding) [Source:HGNC Symbol;Acc:90882]
18	3040	-2.05	2e-16 5e-14	4 x 1 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]
19	3043	-2.12	2e-16 5e-14	5 x 1 hemoglobin, beta [Source:HGNC Symbol;Acc:4827]
20	8349	1.5	2e-16 5e-14	21 x 50 histone cluster 2, H2be [Source:HGNC Symbol;Acc:4760]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	9.84	NULL	572	Disease GUDJ_psooriasis up
2	9.56	NULL	142	Glio wilscher_GBM_Verhaak-CL_expression_C_up
3	9.56	NULL	142	Glio wilscher_GBM_Verhaak-PNmut_expression_C_down
4	8.66	NULL	135	H.Tiss WIRTH_Mucosa
5	8.2	NULL	53	BP keratinocyte differentiation
6	7.63	NULL	918	Chr Chr 17
7	7.55	NULL	603	miRNA target set B20a
8	7.51	NULL	1720	Chr Chr 1
9	7.08	NULL	545	miRNA target set B30a
10	7.02	NULL	76	BP epidermis development
11	6.99	NULL	517	miRNA target set B10a
12	6.74	NULL	42	BP keratinization
13	6.72	NULL	914	Chr Chr 3
14	6.54	NULL	511	miRNA target set B10b
15	6.39	NULL	494	miRNA target set B107
16	6.37	NULL	495	miRNA target set B103
17	6.35	NULL	538	miRNA target set B10e
18	6.33	NULL	565	miRNA target set B20b
19	6.28	NULL	335	miRNA target set B50d-3p
20	6.26	NULL	187	Chr Chr 21
<i>Underexpressed</i>				
1	-10.09	NULL	957	Chr Chr 11
2	-9.84	NULL	92	BP translational elongation
3	-9.8	NULL	81	BP viral transcription
4	-9.43	NULL	553	Cancer Lembecke_Colonc Inflammation
5	-9.03	NULL	1135	Chr Chr 19
6	-8.82	NULL	87	BP translational termination
7	-8.76	NULL	128	BP translational initiation
8	-8.76	NULL	109	BP SRP-dependent cotranslational protein targeting to membrane
9	-8.62	NULL	92	BP viral life cycle
10	-8.27	NULL	265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
11	-8.27	NULL	265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
12	-8.27	NULL	265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
13	-8.27	NULL	265	Glio wilscher_GBM_Verhaak-PNmut_expression_B_down
14	-7.95	NULL	37	CC cytosolic small ribosomal subunit
15	-7.49	NULL	115	BP nuclear-transcribed mRNA catabolic process, nonsense-mediated decay
16	-7.41	NULL	280	Chr Chr 13
17	-7.36	NULL	683	CC extracellular space
18	-7.36	NULL	153	MF structural constituent of ribosome
19	-7.08	NULL	4	MMML C63CIEJ_MMML 23
20	-7	NULL	417	H.Tiss WIRTH_Immune system

p-values



GW_241

Local Summary

%DE = 0.91
 # metagenes = 1
 # genes = 29
 # genes in genesets = 28
 # genes with $fdr < 0.1$ = 22 (21 + / 1 -)
 # genes with $fdr < 0.05$ = 22 (21 + / 1 -)
 # genes with $fdr < 0.01$ = 21 (20 + / 1 -)

<r> metagenes = NA

<r> genes = 0.42

<FC> = 0.55

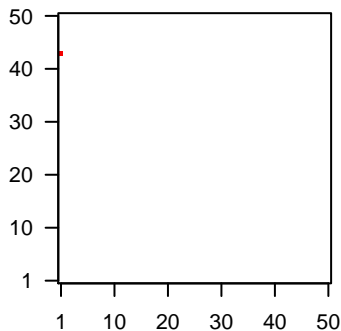
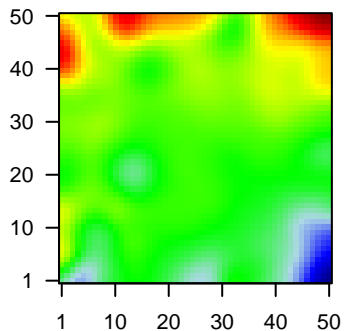
<shrinkage-t> = 19.35

<p-value> = 0

<fdr> = 0.25

Profile

Spot



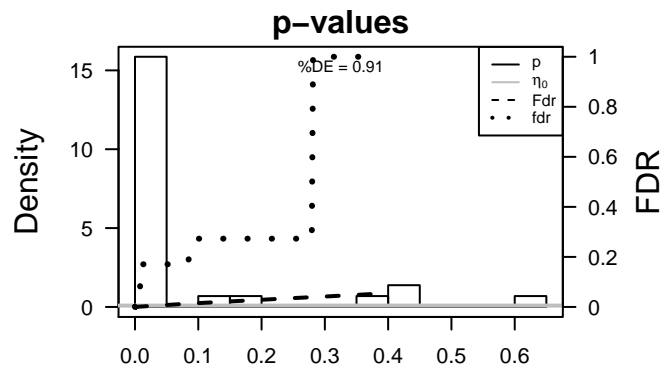
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	1288	1.06	8e-11	2e-10	1 x 43 collagen, type IV, alpha 6 [Source:HGNC Symbol;Acc:2208]
2	50805	1.05	1e-10	2e-09	1 x 43 iroquois homeobox 4 [Source:HGNC Symbol;Acc:6129]
3	116211	0.98	2e-09	2e-09	1 x 43 Transmembrane 4 L6 family member 19 [Source:UniProtKB/
4	244	0.98	2e-09	9e-09	1 x 43 annexin A8-like 2 [Source:HGNC Symbol;Acc:23335]
5	3552	0.94	8e-09	9e-09	1 x 43 interleukin 1, alpha [Source:HGNC Symbol;Acc:5991]
6	6274	0.93	1e-08	9e-09	1 x 43 S100 calcium binding protein A3 [Source:HGNC Symbol;Acc:
7	6513	0.93	1e-08	2e-08	1 x 43 solute carrier family 2 (facilitated glucose transporter), membr
8	1308	0.92	2e-08	4e-08	1 x 43 collagen, type XVII, alpha 1 [Source:HGNC Symbol;Acc:2194]
9	404203	0.9	4e-08	5e-07	1 x 43 serine peptidase inhibitor, Kazal type 6 [Source:HGNC Symb
10	3038	0.84	2e-07	6e-06	1 x 43 hyaluronan synthase 3 [Source:HGNC Symbol;Acc:4820]
11	81706	0.77	3e-06	6e-06	1 x 43 protein phosphatase 1, regulatory (inhibitor) subunit 14C [So
12	5358	0.75	5e-06	2e-05	1 x 43 plastin 3 [Source:HGNC Symbol;Acc:9091]
13	5947	0.69	2e-05	2e-05	1 x 43 retinol binding protein 1, cellular [Source:HGNC Symbol;Acc:1
14	83882	0.69	2e-05	2e-05	1 x 43 tetraspanin 10 [Source:HGNC Symbol;Acc:29942]
15	5744	0.69	3e-05	7e-05	1 x 43 parathyroid hormone-like hormone [Source:HGNC Symbol;A
16	55612	0.66	5e-05	7e-04	1 x 43 feritin family member 1 [Source:HGNC Symbol;Acc:15889]
17	163732	0.56	5e-04	7e-04	1 x 43 Cbp/p300-interacting transactivator, with Glu/Asp-rich carbo
18	2152	-0.56	6e-04	2e-03	1 x 43 coagulation factor III (thromboplastin, tissue factor) [Source:H
19	375061	0.52	1e-03	8e-03	1 x 43 family with sequence similarity 89, member A [Source:HGNC
20	80115	0.45	6e-03	8e-03	1 x 43 BAI1-associated protein 2-like 2 [Source:HGNC Symbol;Acc

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	34.29	NULL	1 / 4	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_DN
2	28.57	NULL	2 / 11	GSEA C2BIOCARTA_VITCB_PATHWAY
3	25.96	NULL	1 / 5	GSEA C2RODRIGUES_DCC_TARGETS_UP
4	21.95	NULL	1 / 6	GSEA C2SEIKE_LUNG_CANCER_POOR_SURVIVAL
5	19.1	NULL	1 / 8	GSEA C2NIKOLSKY_BREAST_CANCER_5P15_AMPLICON
6	16.9	NULL	1 / 8	GSEA C2REACTOME_FACILITATIVE_NA_INDEPENDENT_GLUCOSE_TR
7	16.28	NULL	1 / 10	GSEA C2BIOCARTA_ACE2_PATHWAY
8	16.2	NULL	1 / 6	GSEA C2OHM_EMBRYONIC_CARCINOMA_DN
9	15.96	NULL	2 / 15	GSEA C2NGUYEN_NOTCH1_TARGETS_UP
10	15.17	NULL	1 / 11	GSEA C2BIOCARTA_PLATELETAPP_PATHWAY
11	14.62	NULL	1 / 6	GSEA C2SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN
12	14.4	NULL	1 / 10	GSEA C2BIOCARTA_LYM_PATHWAY
13	14.25	NULL	1 / 12	GSEA C2BIOCARTA_INTRINSIC_PATHWAY
14	13.96	NULL	1 / 7	GSEA C2BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_AND_PAX3
15	13.57	NULL	1 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN
16	13.47	NULL	1 / 13	GSEA C2BIOCARTA_AML_PATHWAY
17	13.24	NULL	1 / 11	MF substrate-specific transmembrane transporter activity
18	12.6	NULL	1 / 12	GSEA C2BIOCARTA_ERYTH_PATHWAY
19	12.29	NULL	1 / 12	BP hemidesmosome assembly
20	11.91	NULL	1 / 13	BP positive regulation of interleukin-2 biosynthetic process
21	11.91	NULL	1 / 13	BP response to copper ion
22	11.65	NULL	2 / 16	GSEA C2LANDEMAINE_LUNG_METASTASIS
23	11.5	NULL	1 / 9	GSEA C2RODWELL_AGING_KIDNEY_UP
24	11.29	NULL	1 / 12	BP extracellular polysaccharide biosynthetic process
25	10.79	NULL	1 / 15	MF interleukin-1 receptor binding
26	10.79	NULL	1 / 15	BP positive regulation vascular endothelial growth factor production
27	10.74	NULL	1 / 15	Pathw AcGUSTAFSON_PI3K_DN
28	10.65	NULL	1 / 15	BP response to osmotic stress
29	10.65	NULL	1 / 15	GSEA C2KANG_FLUOROURACIL_RESISTANCE_DN
30	10.65	NULL	1 / 15	GSEA C2SHO_ATF5_TARGETS_DN
31	10.63	NULL	1 / 11	MMML C2BICIEJ_MMML_31
32	10.61	NULL	1 / 10	GSEA C2OUELLET_OVARIAN_CANCER_INVASIVE_VS_LMP_DN
33	10.61	NULL	1 / 10	GSEA C2LOPES_METHYLATED_IN_COLON_CANCER_DN
34	10.49	NULL	1 / 10	BP surfactant homeostasis
35	10.19	NULL	1 / 16	GSEA C2WILLERT_WNT_SIGNALING
36	10.07	NULL	1 / 16	GSEA C2WATTEL_AUTONOMOUS_THYROID_ADENOMA_UP
37	9.98	NULL	1 / 12	GSEA C2PEPPER_CHRONIC_LYMPHOCTIC_LEUKEMIA_UP
38	9.89	NULL	1 / 11	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_G_UP
39	9.89	NULL	1 / 11	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_BONE_DN
40	9.79	NULL	1 / 17	BP cellular response to glucose starvation



GW_241

Local Summary

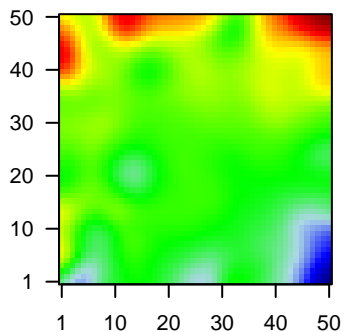
%DE = 0.74
 # metagenes = 21
 # genes = 304
 # genes in genesets = 302

genes with $fdr < 0.1 = 200$ (184 + / 16 -)
 # genes with $fdr < 0.05 = 178$ (167 + / 11 -)
 # genes with $fdr < 0.01 = 135$ (131 + / 4 -)

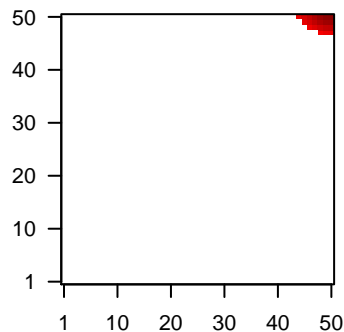
$\langle r \rangle$ metagenes = 0.91
 $\langle r \rangle$ genes = 0.27

$\langle FC \rangle = 0.44$
 $\langle \text{shrinkage-t} \rangle = 15.44$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.41$

Profile



Spot



Local Genelist

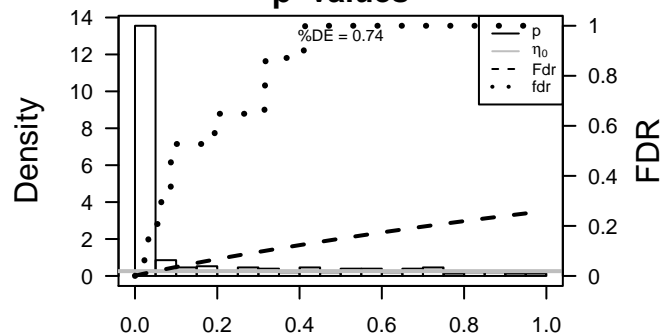
Rank	ID	log(FC)	fdr	p-value	Description
1	154664	1.83	2e-16	2e-15	50 x 50 ATP-binding cassette, sub-family A (ABC1), member 13 [Source:HGNC Symbol;Acc:2032]
2	9076	1.79	2e-16	2e-15	49 x 50 claudin 1 [Source:HGNC Symbol;Acc:2032]
3	56922	1.38	2e-16	2e-15	50 x 50 methylcrotonyl-CoA carboxylase 1 (alpha) [Source:HGNC Symbol;Acc:2032]
4	4922	2.4	2e-16	2e-15	50 x 50 neurotensin [Source:HGNC Symbol;Acc:8038]
5	116832	1.5	2e-16	2e-15	46 x 50 ribosomal protein L39-like [Source:HGNC Symbol;Acc:17094]
6	23321	1.48	2e-16	2e-15	50 x 50 tripartite motif containing 2 [Source:HGNC Symbol;Acc:15974]
7	79679	1.66	2e-16	2e-15	50 x 50 V-set domain containing T cell activation inhibitor 1 [Source:HGNC Symbol;Acc:26790]
8	256764	1.61	2e-16	2e-15	50 x 50 WD repeat domain 72 [Source:HGNC Symbol;Acc:26790]
9	4915	1.3	2e-15	4e-13	50 x 50 neurotrophic tyrosine kinase, receptor, type 2 [Source:HGNC Symbol;Acc:26790]
10	56548	1.27	7e-15	4e-13	50 x 50 carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7 [Source:HGNC Symbol;Acc:26790]
11	1894	1.26	1e-14	7e-13	45 x 50 epithelial cell transforming sequence 2 oncogene [Source:HGNC Symbol;Acc:26790]
12	10655	1.24	2e-14	7e-13	50 x 50 doublesex and mab-3 related transcription factor 2 [Source:HGNC Symbol;Acc:26790]
13	216	1.24	3e-14	2e-12	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC Symbol;Acc:26790]
14	79718	1.22	7e-14	2e-12	48 x 50 transducin (beta)-like 1 X-linked receptor 1 [Source:HGNC Symbol;Acc:26790]
15	10057	1.22	7e-14	2e-12	50 x 50 ATP-binding cassette, sub-family C (CFTR/MRP), member 5 [Source:HGNC Symbol;Acc:26790]
16	6657	1.21	9e-14	2e-12	50 x 50 SRY (sex determining region Y)-box 2 [Source:HGNC Symbol;Acc:26790]
17	1857	1.21	1e-13	2e-12	49 x 50 dishevelled segment polarity protein 3 [Source:HGNC Symbol;Acc:26790]
18	205428	1.2	1e-13	7e-12	50 x 50 chromosome 3 open reading frame 58 [Source:HGNC Symbol;Acc:26790]
19	3880	1.19	2e-13	2e-10	50 x 49 keratin 19 [Source:HGNC Symbol;Acc:6436]
20	57552	1.14	3e-12	2e-10	48 x 47 neutral cholesterol ester hydrolase 1 [Source:HGNC Symbol;Acc:26790]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	19.68	NULL	43 / 142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	19.68	NULL	43 / 142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	17.27	NULL	2 / 7	GSEA C2MCCOLLUM_GELDANAMYCIN_RESISTANCE_DN
4	15.17	NULL	72 / 914	Chr Chr 3
5	14.03	NULL	17 / 57	Glio developing astrocytes
6	13.12	NULL	4 / 9	GSEA C2SEMBA_FHIT_TARGETS_DN
7	12.96	NULL	4 / 13	BP regulation of blood vessel size
8	11.95	NULL	4 / 8	GSEA C2REACTOME_E2F_TRANSCRIPTIONAL_TARGETS_AT_G1_S
9	11.52	NULL	5 / 14	GSEA C2ANTVEER_BREAST_CANCER_METASTASIS_DN
10	11.29	NULL	7 / 15	GSEA C2WU_APOPTOSIS_BY_CDKN1A_VIA_TP53
11	10.89	NULL	8 / 16	GSEA C2FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL
12	10.25	NULL	6 / 16	GSEA C2EGUCHI_CELL_CYCLE_RB1_TARGETS
13	10.15	NULL	6 / 15	GSEA C2ODONNELL_TARGETS_OF_MYC_AND_TFRC_DN
14	9.97	NULL	6 / 26	BP cellular response to ionizing radiation
15	9.96	NULL	4 / 11	GSEA C2REACTOME_E2F_MEDIATED_REGULATION_OF_DNA_REPLIC
16	9.84	NULL	7 / 15	GSEA C2FINETTI_BREAST_CANCER_KINOME_RED
17	9.8	NULL	3 / 6	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_7
18	9.73	NULL	5 / 16	GSEA C2REACTOME_DNA_STRAND_ELONGATION
19	9.7	NULL	7 / 15	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
20	9.63	NULL	3 / 13	GSEA C2IAERVINEN_AMPLIFIED_IN_LARYNGEAL_CANCER
21	9.54	NULL	4 / 11	GSEA C2KALMA_E2F1_TARGETS
22	9.52	NULL	6 / 16	GSEA C2PUJANA_BREAST_CANCER_WITH_BRCA1_MUTATED_UP
23	9.45	NULL	1 / 5	GSEA C2TURASHVILI_BREAST_CARCINOMA_DUCTAL_VS_LOBULAR
24	9.34	NULL	6 / 14	MMML C6B3CIEJ_MMML_4
25	9.33	NULL	8 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_2
26	9.17	NULL	6 / 13	GSEA C2ROONQUIST_IL6_DEPRIVATION_DN
27	9.02	NULL	3 / 16	GSEA C2BOYALT_LIVER_CANCER_SUBCLASS_G1_DN
28	9.01	NULL	42 / 530	Cancer Lembecke_Normal vs Adenoma
29	8.77	NULL	1 / 11	Glio neurons_glio
30	8.68	NULL	5 / 16	GSEA C2KANG_DOXORUBICIN_RESISTANCE_UP
31	8.65	NULL	6 / 15	GSEA C2Y_AGING_MIDDLE_DN
32	8.49	NULL	6 / 14	GSEA C2ZHAN_MULTIPLE_MYELOMA_PR_UP
33	8.48	NULL	2 / 7	GSEA C2FREDERICK_PRKCI_TARGETS
34	8.47	NULL	7 / 14	GSEA C2PUJANA_BRCA_CENTERED_NETWORK
35	8.44	NULL	3 / 15	GSEA C2YANG_BREAST_CANCER_ESR1_LASER_DN
36	8.42	NULL	3 / 8	GSEA C2LIU_CDX2_TARGETS_DN
37	8.42	NULL	2 / 9	GSEA C2REACTOME_METABOLISM_OF_AMINO_ACIDS
38	8.4	NULL	7 / 14	GSEA C2AMUNDSON_GAMMA_RADIATION_RESPONSE
39	8.31	NULL	2 / 10	GSEA C2CONRAD_STEM_CELL
40	8.3	NULL	6 / 15	GSEA C2SMID_BREAST_CANCER_LUMINAL_A_DN

p-values



GW_241

Local Summary

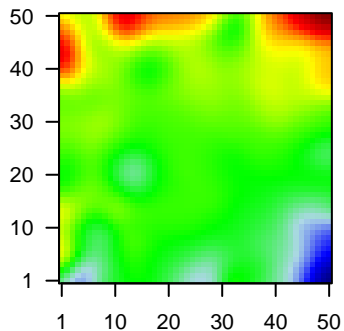
%DE = 0.78
 # metagenes = 1
 # genes = 36
 # genes in genesets = 36

genes with $fdr < 0.1 = 22$ (19 + / 3 -)
 # genes with $fdr < 0.05 = 20$ (17 + / 3 -)
 # genes with $fdr < 0.01 = 15$ (15 + / 0 -)

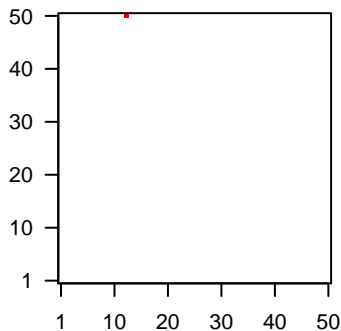
<r> metagenes = NA
 <r> genes = 0.33

<FC> = 0.41
 <shrinkage-t> = 14.19
 <p-value> = 0
 <fdr> = 0.48

Profile



Spot



Local Genelist

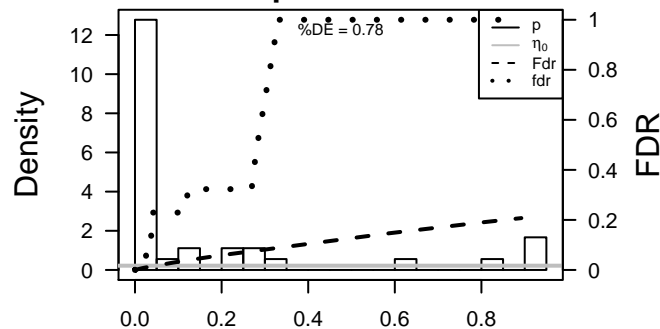
Rank	ID	log(FC)	fdr	p-value	Description
1	10457	1.71	2e-16	9e-16	13 x 50 glycoprotein (transmembrane) nmb [Source:HGNC Symbol;A
2	7062	1.9	2e-16	9e-16	13 x 50 trichohyalin [Source:HGNC Symbol;Acc:11791]
3	483	1.28	5e-15	2e-11	13 x 50 ATPase, Na+/K+ transporting, beta 3 polypeptide [Source:HG
4	1749	1.14	2e-12	3e-10	13 x 50 distal-less homeobox 5 [Source:HGNC Symbol;Acc:2918]
5	84002	1.07	4e-11	1e-08	13 x 50 UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransf
6	8626	0.99	1e-09	2e-05	13 x 50 tumor protein p63 [Source:HGNC Symbol;Acc:15979]
7	1962	0.77	2e-06	6e-05	13 x 50 enoyl-CoA, hydratase/3-hydroxyacyl CoA dehydrogenase [S
8	144402	0.72	9e-06	4e-04	13 x 50 copine VIII [Source:HGNC Symbol;Acc:23498]
9	3321	0.64	9e-05	4e-04	13 x 50 immunoglobulin superfamily, member 3 [Source:HGNC Symb
10	57609	0.63	1e-04	5e-04	13 x 50 DIP2 disco-interacting protein 2 homolog B (Drosophila) [So
11	2564	0.61	2e-04	1e-03	13 x 50 gamma-aminobutyric acid (GABA) A receptor, epsilon [Sourc
12	9121	0.55	7e-04	1e-03	13 x 50 solute carrier family 16 (monocarboxylate transporter), memb
13	1728	0.55	7e-04	1e-03	13 x 50 NAD(P)H dehydrogenase, quinone 1 [Source:HGNC Symbol;
14	85236	0.54	9e-04	1e-03	13 x 50 histone cluster 1, H2bk [Source:HGNC Symbol;Acc:13954]
15	79850	0.54	9e-04	6e-03	13 x 50 family with sequence similarity 57, member A [Source:HGNC
16	7086	-0.51	2e-03	1e-02	13 x 50 transketolase [Source:HGNC Symbol;Acc:11834]
17	51071	0.48	3e-03	5e-02	13 x 50 deoxyribose-phosphate aldolase (putative) [Source:HGNC S
18	1109	0.38	2e-02	5e-02	13 x 50 aldo-keto reductase family 1, member C4 [Source:HGNC Syr
19	10553	-0.37	2e-02	5e-02	13 x 50 HIV-1 Tat interactive protein 2, 30kDa [Source:HGNC Symbc
20	1717	-0.36	3e-02	5e-02	13 x 50 7-dehydrocholesterol reductase [Source:HGNC Symbol;Acc:

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	24	NULL	1 / 9	Glio Colman_survival_robust
2	22.56	NULL	2 / 15	GSEA C2KANG_FLUOROURACIL_RESISTANCE_UP
3	22.29	NULL	1 / 10	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_UP
4	21.69	NULL	1 / 6	GSEA C2ZAIDI_OSTEOBLAST_TRANSCRIPTION_FACTORS
5	21.69	NULL	1 / 6	GSEA C2NIELSEN_GIST_VS_SYNOVIAL_SARCOMA_UP
6	20.88	NULL	1 / 11	GSEA C2TO_PTTG1_TARGETS_UP
7	18.88	NULL	1 / 15	GSEA C2NAGASHIMA_NRG1_SIGNALING_DN
8	18.68	NULL	1 / 13	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_E_DN
9	18.26	NULL	2 / 19	BP anatomical structure formation involved in morphogenesis
10	16.56	NULL	1 / 10	GSEA C2TARTE_PLASMA_CELL_VS_PLASMABLAST_DN
11	16.56	NULL	1 / 10	GSEA C2HOSHIDA_LIVER_CANCER_SUBCLASS_S1
12	15.03	NULL	1 / 8	TF Tissue/AQUERIZAS_Tongue
13	14.63	NULL	1 / 12	GSEA C2SCHLOSSER_MYC_TARGETS_AND_SERUM_RESPONSE_UP
14	14.63	NULL	1 / 12	GSEA C2KEGG_CARDIAC_MUSCLE_CONTRACTION
15	13.95	NULL	3 / 38	BP epithelial cell differentiation
16	13.88	NULL	1 / 11	BP ear development
17	13.88	NULL	1 / 11	GSEA C2SU_PLACENTA
18	13.87	NULL	1 / 13	GSEA C2CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN
19	13.87	NULL	1 / 13	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_MONOCYTO
20	13.87	NULL	1 / 13	GSEA C2SANA_TNF_SIGNALING_DN
21	13.87	NULL	1 / 13	GSEA C2SCHUHMACHER_MYC_TARGETS_UP
22	13.87	NULL	1 / 13	GSEA C2KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION
23	13.87	NULL	1 / 13	GSEA C2REACTOME_HEMOSTASIS
24	13.68	NULL	2 / 51	BP osteoblast differentiation
25	13.43	NULL	1 / 26	Disease BCHETNIA_EBM-DM up
26	13.21	NULL	1 / 14	GSEA C2QUELLET_OVARIAN_CANCER_INVASIVE_VS_LMP_UP
27	13.21	NULL	1 / 14	GSEA C2GRUETZMANN_PANCREATIC_CANCER_UP
28	13.21	NULL	1 / 14	GSEA C2RUTELLA_RESPONSE_TO_HGF_VS_CSF2R2_AND_IL4_DN
29	13.21	NULL	1 / 14	GSEA C2REACTOME_CELL_SURFACE_INTERACTIONS_AT_THE_VASCU
30	13.08	NULL	1 / 12	BP head development
31	12.64	NULL	1 / 15	GSEA C2DELYS_THYROID_CANCER_UP
32	12.64	NULL	1 / 15	GSEA C2ZHAN_V2_LATE_DIFFERENTIATION_GENES
33	12.64	NULL	1 / 15	GSEA C2RUTELLA_RESPONSE_TO_HGF_UP
34	12.64	NULL	1 / 15	GSEA C2JIANG_HYPOXIA_NORMAL
35	12.64	NULL	1 / 15	GSEA C2KEGG_ALDOSTERONE_REGULATED_SODIUM_REABSORPTIO
36	12.41	NULL	1 / 13	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_BRAIN_UP
37	12.14	NULL	2 / 15	GSEA C2MAMUNYOKOLI_OVARIAN_CANCER_LMP_UP
38	12.12	NULL	1 / 16	GSEA C2WONG_MITOCHONDRIA_GENE_MODULE
39	12.12	NULL	1 / 16	GSEA C2BRUECKNER_TARGETS_OF_MIRLET7A3_UP
40	12.12	NULL	1 / 16	GSEA C2RUTELLA_RESPONSE_TO_CSF2R2_AND_IL4_UP

p-values



GW_241

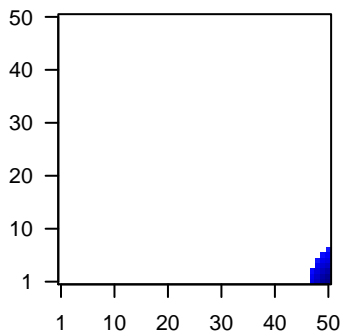
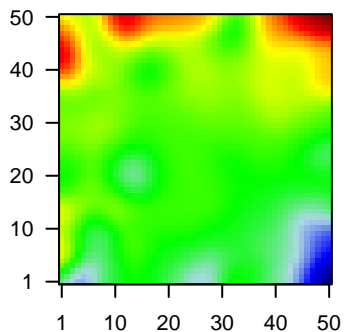
Local Summary

%DE = 0.92
 # metagenes = 21
 # genes = 366
 # genes in genesets = 364
 # genes with $fdr < 0.1$ = 329 (4 + / 325 -)
 # genes with $fdr < 0.05$ = 297 (3 + / 294 -)
 # genes with $fdr < 0.01$ = 220 (2 + / 218 -)

$\langle r \rangle$ metagenes = 0.95
 $\langle r \rangle$ genes = 0.48
 $\langle FC \rangle = -0.46$
 $\langle \text{shrinkage-t} \rangle = -16.24$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.41$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	894	-1.26	1e-14	4e-13	50 x 4 cyclin D2 [Source:HGNC Symbol;Acc:1583]
2	347733	-1.24	2e-14	7e-11	50 x 5 tubulin, beta 2B class IIb [Source:HGNC Symbol;Acc:30829]
3	6363	-1.14	3e-12	7e-11	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc:6363]
4	10537	-1.12	5e-12	1e-10	50 x 1 ubiquitin D [Source:HGNC Symbol;Acc:18795]
5	4069	-1.11	1e-11	1e-10	50 x 2 lysozyme [Source:HGNC Symbol;Acc:6740]
6	3126	-1.1	1e-11	7e-10	50 x 1 major histocompatibility complex, class II, DR beta 4 [Source:HGNC Symbol;Acc:3126]
7	83641	-1.07	5e-11	7e-10	50 x 1 family with sequence similarity 107, member B [Source:HGNC Symbol;Acc:83641]
8	23643	-1.06	9e-11	7e-10	50 x 3 lymphocyte antigen 96 [Source:HGNC Symbol;Acc:17156]
9	348	-1.05	1e-10	6e-09	50 x 1 apolipoprotein E [Source:HGNC Symbol;Acc:613]
10	3109	-1.02	4e-10	6e-09	50 x 1 major histocompatibility complex, class II, DM beta [Source:HGNC Symbol;Acc:3109]
11	3385	-1	8e-10	6e-09	50 x 1 intercellular adhesion molecule 3 [Source:HGNC Symbol;Acc:3385]
12	260436	-1	9e-10	6e-09	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbol;Acc:260436]
13	51303	-1	1e-09	1e-08	49 x 3 FK506 binding protein 11, 19 kDa [Source:HGNC Symbol;Acc:51303]
14	3119	-0.98	2e-09	1e-08	49 x 1 major histocompatibility complex, class II, DQ beta 1 [Source:HGNC Symbol;Acc:3119]
15	57172	-0.98	2e-09	2e-08	49 x 1 calcium/calmodulin-dependent protein kinase I gamma [Source:HGNC Symbol;Acc:57172]
16	3108	-0.97	3e-09	2e-08	50 x 1 major histocompatibility complex, class II, DM alpha [Source:HGNC Symbol;Acc:3108]
17	6748	-0.96	3e-09	5e-08	48 x 4 signal sequence receptor, delta [Source:HGNC Symbol;Acc:6748]
18	6451	-0.94	7e-09	5e-08	50 x 5 SH3 domain binding glutamic acid-rich protein like [Source:HGNC Symbol;Acc:6451]
19	9535	-0.93	1e-08	5e-08	50 x 1 glia maturation factor, gamma [Source:HGNC Symbol;Acc:43]
20	54855	-0.93	1e-08	5e-08	49 x 1 family with sequence similarity 46, member C [Source:HGNC Symbol;Acc:54855]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-27.88	NULL	12 / 15	CC MHC class II protein complex
2	-24.03	NULL	104 / 553	Cancer Lemboke_Colonc Inflammation
3	-23.48	NULL	89 / 417	H.Tiss WIRTH_Immune system
4	-16.85	NULL	55 / 312	BP immune response
5	-16.12	NULL	7 / 12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN
6	-16.12	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
7	-16.09	NULL	47 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
8	-16.09	NULL	47 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
9	-16.09	NULL	47 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
10	-16.09	NULL	47 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
11	-15.62	NULL	15 / 47	BP antigen processing and presentation
12	-15.2	NULL	7 / 8	BP Donson-migration tethering and rolling-associated with LTS in HG
13	-14.64	NULL	5 / 12	BP immunoglobulin mediated immune response
14	-14.4	NULL	4 / 9	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_DN
15	-14.22	NULL	6 / 15	GSEA C2FINAK_BREAST_CANCER_SDP_SIGNATURE
16	-13.95	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
17	-12.8	NULL	18 / 74	BP regulation of immune response
18	-12.68	NULL	14 / 60	BP T cell costimulation
19	-12.27	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
20	-12.12	NULL	5 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_
21	-11.89	NULL	5 / 17	BP positive regulation of neutrophil chemotaxis
22	-11.8	NULL	2 / 4	GSEA C2KEGG_LEISHMANIA_INFECTION
23	-11.75	NULL	7 / 21	CC clathrin-coated endocytic vesicle membrane
24	-11.49	NULL	3 / 11	GSEA C2WILENSKY_RESPONSE_TO_DARAPLADIB
25	-11.43	NULL	5 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
26	-11.26	NULL	6 / 16	GSEA C2FERRANDO_TAL1_NEIGHBORS
27	-11.15	NULL	7 / 23	CC integral to luminal side of endoplasmic reticulum membrane
28	-10.89	NULL	3 / 8	Lymphoma#ASCQUE_ABC_UP
29	-10.87	NULL	4 / 7	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED
30	-10.65	NULL	6 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
31	-10.61	NULL	6 / 16	Lymphoma#RIGHT_ABC_UP
32	-10.59	NULL	3 / 8	GSEA C2LINDSTEDT_DENDRITIC_CELL_MATURATION_D
33	-10.37	NULL	5 / 15	GSEA C2JAATINEN_HEMATOPOIETIC_STEM_CELL_DN
34	-10.36	NULL	8 / 28	CC transport vesicle membrane
35	-10.35	NULL	3 / 7	GSEA C2BOYVAULT_LIVER_CANCER_SUBCLASS_G5_DN
36	-10.35	NULL	4 / 13	BP positive regulation of endocytosis
37	-10.28	NULL	4 / 16	GSEA C2KORKOLA_TERATOMA_UP
38	-10.26	NULL	27 / 162	CC external side of plasma membrane
39	-10.21	NULL	5 / 11	BP positive regulation of B cell differentiation
40	-10.18	NULL	4 / 10	GSEA C2FERRANDO_LYL1_NEIGHBORS

