

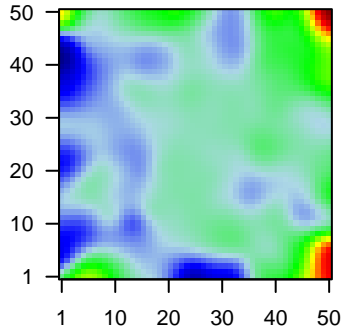
GW_290

Global Summary

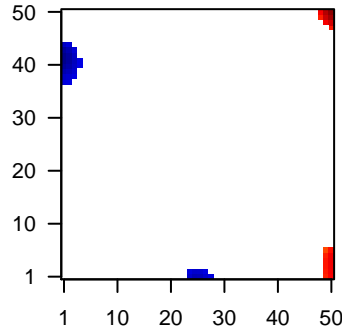
%DE = 0.13
 # genes with fdr < 0.2 = 1686 (963 + / 723 -)
 # genes with fdr < 0.1 = 1371 (792 + / 579 -)
 # genes with fdr < 0.05 = 1112 (663 + / 449 -)
 # genes with fdr < 0.01 = 783 (488 + / 295 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.11
 <fdr> = 0.87

Profile



Regulated Spots



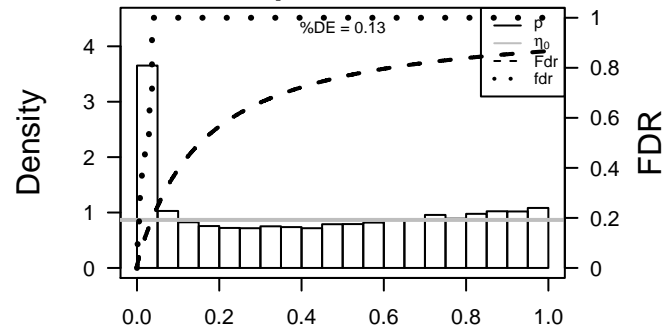
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	154664	1.24	2e-16	3e-14	50 x 50 ATP-binding cassette, sub-family A (ABC1), member 13 [Soi
2	24	1.47	2e-16	3e-14	16 x 50 ATP-binding cassette, sub-family A (ABC1), member 4 [Sou
3	124	1.47	2e-16	3e-14	50 x 11 alcohol dehydrogenase 1A (class I), alpha polypeptide [Sourc
4	126	1.34	2e-16	3e-14	50 x 12 alcohol dehydrogenase 1C (class I), gamma polypeptide [Sou
5	242	2.68	2e-16	3e-14	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syrr
6	59344	1.26	2e-16	3e-14	2 x 45 arachidonate lipoxygenase 3 [Source:HGNC Symbol;Acc:137
7	147495	1.29	2e-16	3e-14	2 x 44 adenomatosis polyposis coli down-regulated 1 [Source:HGNC
8	440	1.75	2e-16	3e-14	50 x 46 asparagine synthetase (glutamine-hydrolyzing) [Source:HGN
9	479	1.3	2e-16	3e-14	7 x 50 ATPase, H+/K+ transporting, nongastric, alpha polypeptide [S
10	344905	1.34	2e-16	3e-14	50 x 50 ATPase type 13A5 [Source:HGNC Symbol;Acc:31789]
11	684	-1.49	2e-16	3e-14	32 x 1 bone marrow stromal cell antigen 2 [Source:HGNC Symbol;A
12	388115	-1.27	2e-16	3e-14	26 x 2 chromosome 15 open reading frame 52 [Source:HGNC Synt
13	260436	-1.59	2e-16	3e-14	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
14	29113	2.46	2e-16	3e-14	2 x 47 chromosome 6 open reading frame 15 [Source:HGNC Symbc
15	810	1.48	2e-16	3e-14	1 x 50 calmodulin-like 3 [Source:HGNC Symbol;Acc:1452]
16	57172	2	2e-16	3e-14	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
17	84290	-1.48	2e-16	3e-14	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
18	875	1.78	2e-16	3e-14	49 x 47 cystathionine-beta-synthase [Source:HGNC Symbol;Acc:15:
19	6347	1.26	2e-16	3e-14	50 x 4 chemokine (C-C motif) ligand 2 [Source:HGNC Symbol;Acc:
20	1048	1.85	2e-16	3e-14	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [:

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	16.02	NULL	42	BP keratinization
2	13.97	NULL	21	CC cornified envelope
3	9.66	NULL	53	BP keratinocyte differentiation
4	9.27	NULL	19	BP peptide cross-linking
5	9.1	NULL	553	Cancer Lembcke_Colonic Inflammation
6	8.92	NULL	918	Chr Chr 17
7	8.4	NULL	9	GSEA C2GUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_1_1_0
8	8.38	NULL	15	CC MHC class II protein complex
9	8.36	NULL	76	BP epidermis development
10	7.86	NULL	12	GSEA C2HELLER_SILENCED_BY_METHYLATION_DN
11	7.43	NULL	16	GSEA C2KAN_RESPONSE_TO_ARSENIC_TRIOXIDE
12	7.04	NULL	15	GSEA C2AGUIRRE_PANCREATIC_CANCER_COPY_NUMBER_UP
13	6.95	NULL	602	Chr Chr 10
14	6.94	NULL	21	CC clathrin-coated endocytic vesicle membrane
15	6.59	NULL	9	GSEA C2REACTOME_ETHANOL_OXIDATION
16	6.55	NULL	5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
17	6.49	NULL	572	Disease GUDJ_psoriasis up
18	6.41	NULL	10	GSEA C2NOJIMA_SFRP2_TARGETS_UP
19	6.36	NULL	16	MF fibronectin binding
20	6.28	NULL	10	BP lipoxygenase pathway
<i>Underexpressed</i>				
1	-9.52	NULL	957	Chr Chr 11
2	-7.63	NULL	633	Chr Chr 9
3	-7.05	NULL	127	H.Tiss WIRTH_Muscle
4	-6.92	NULL	16	GSEA C2EINAV_INTERFERON_SIGNATURE_IN_CANCER
5	-6.14	NULL	8	GSEA C2ROETH_TERT_TARGETS_UP
6	-5.87	NULL	504	Chr Chr 15
7	-5.82	NULL	519	Chr Chr 14
8	-5.55	NULL	31	BP negative regulation of viral genome replication
9	-5.36	NULL	16	GSEA C2MOSERLE_IFNA_RESPONSE
10	-5.33	NULL	36	BP muscle filament sliding
11	-5.29	NULL	16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
12	-5.23	NULL	12	GSEA C2TSAI_DNAJB4_TARGETS_UP
13	-5.19	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
14	-5.01	NULL	15	GSEA C2BECKER_TAMOXIFEN_RESISTANCE_UP
15	-4.94	NULL	4	MMML C2SCIEJ_MMML 47
16	-4.93	NULL	13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
17	-4.68	NULL	10	GSEA C2BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
18	-4.64	NULL	16	H.Tiss WIRTH_Hippocampus
19	-4.63	NULL	84	BP muscle contraction
20	-4.49	NULL	15	GSEA C2ONDER_CDH1_TARGETS_2_DN

p-values



GW_290

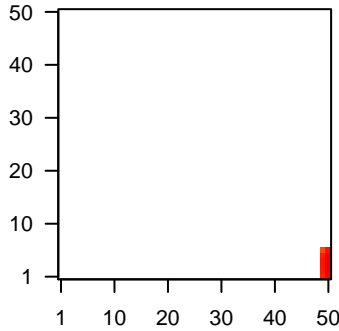
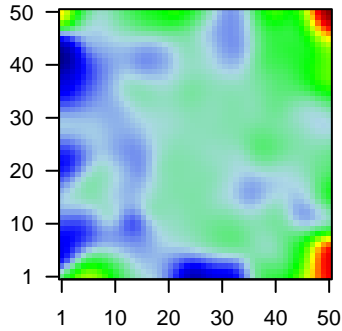
Local Summary

%DE = 0.49
 # metagenes = 12
 # genes = 230
 # genes in genesets = 229
 # genes with $fdr < 0.1$ = 83 (75 + / 8 -)
 # genes with $fdr < 0.05$ = 66 (60 + / 6 -)
 # genes with $fdr < 0.01$ = 48 (45 + / 3 -)

<r> metagenes = 0.96
 <r> genes = 0.53
 <FC> = 0.27
 <shrinkage-t> = 9.57
 <p-value> = 0
 <fdr> = 0.65

Profile

Spot



Local Genelist

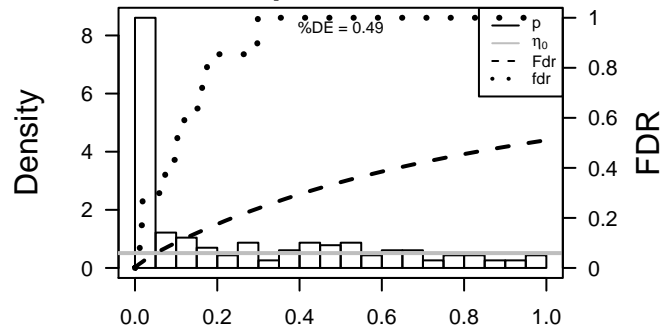
Rank	ID	log(FC)	fdr	p-value	Description
1	260436	-1.59	2e-16	2e-15	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
2	57172	2	2e-16	2e-15	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
3	6347	1.26	2e-16	2e-15	50 x 4 chemokine (C-C motif) ligand 2 [Source:HGNC Symbol;Acc:1
4	51755	1.7	2e-16	2e-15	49 x 1 cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:242;
5	54855	1.75	2e-16	2e-15	49 x 1 family with sequence similarity 46, member C [Source:HGNC
6	3512	2.92	2e-16	2e-15	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglobu
7	3543	1.34	2e-16	2e-15	49 x 1 immunoglobulin lambda-like polypeptide 1 [Source:HGNC Sy
8	25849	1.26	2e-16	2e-15	50 x 2 prostate androgen-regulated mucin-like protein 1 [Source:H
9	11040	1.51	2e-16	2e-15	49 x 1 pim-2 oncogene [Source:HGNC Symbol;Acc:8987]
10	5996	1.48	2e-16	2e-15	50 x 1 regulator of G-protein signaling 1 [Source:HGNC Symbol;Acc
11	5552	1.34	2e-16	2e-15	50 x 1 serglycin [Source:HGNC Symbol;Acc:9361]
12	10537	1.73	2e-16	2e-15	50 x 1 ubiquitin D [Source:HGNC Symbol;Acc:18795]
13	2219	1.13	1e-13	7e-11	50 x 5 ficolin (collagen/fibrinogen domain containing) 1 [Source:HG
14	126306	1.09	7e-13	1e-10	49 x 1 junctional sarcoplasmic reticulum protein 1 [Source:HGNC Sy
15	7494	1.07	2e-12	4e-08	49 x 5 X-box binding protein 1 [Source:HGNC Symbol;Acc:12801]
16	347733	0.94	6e-10	4e-08	50 x 5 tubulin, beta 2B class IIb [Source:HGNC Symbol;Acc:30829]
17	3122	0.87	7e-10	3e-07	50 x 1 major histocompatibility complex, class II, DR alpha [Source:t
18	953	0.89	4e-09	3e-07	50 x 4 ectonucleoside triphosphate diphosphohydrolase 1 [Source:h
19	28984	0.87	8e-09	3e-07	50 x 6 regulator of cell cycle [Source:HGNC Symbol;Acc:20369]
20	1880	0.87	8e-09	3e-07	50 x 3 G protein-coupled receptor 183 [Source:HGNC Symbol;Acc:1

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	37.15	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
2	27.59	NULL	4 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN
3	22.11	NULL	3 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
4	16.52	NULL	2 / 11	GSEA C2GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP
5	15.83	NULL	10 / 15	CC MHC class II protein complex
6	15.08	NULL	1 / 4	MMML C6SCIEJ_MMML 2
7	14.84	NULL	5 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_
8	14.45	NULL	2 / 9	GSEA C2GUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_1_D
9	13.12	NULL	1 / 13	GSEA C2LEE_INTRATHYMIC_T_PROGENITOR
10	13.01	NULL	2 / 13	GSEA C2HAHTOLA_MYCOSIS_FUNGOIDES_DN
11	12.76	NULL	5 / 27	MF antigen binding
12	12.45	NULL	39 / 312	BP immune response
13	12.29	NULL	3 / 12	BP negative regulation of cytokine secretion
14	12.14	NULL	2 / 6	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_UP
15	11.69	NULL	1 / 16	GSEA C2HASLINGER_B_CLL_WITH_CHROMOSOME_12_TRISOMY
16	11.68	NULL	1 / 6	GSEA C2FARMER_BREAST_CANCER_CLUSTER_8
17	10.49	NULL	6 / 21	CC clathrin-coated endocytic vesicle membrane
18	10.2	NULL	70 / 553	Cancer Lembcke_Colonc Inflammation
19	10.19	NULL	2 / 7	Cancer ZHANG_MGUS up
20	10.07	NULL	1 / 2	GSEA C2GUTIERREZ_MULTIPLE_MYELOMA_UP
21	10.02	NULL	1 / 6	H.Tiss WIRTH_Bone marrow
22	9.98	NULL	6 / 23	CC integral to lumenal side of endoplasmic reticulum membrane
23	9.8	NULL	1 / 11	GSEA C2BIOCARTA_CACAM_PATHWAY
24	9.46	NULL	1 / 7	GSEA C2IZUKA_LIVER_CANCER_PROGRESSION_G2_G3_DN
25	9.46	NULL	60 / 417	H.Tiss WIRTH_Immune system
26	9.38	NULL	2 / 9	GSEA C2SOUYER_TATL_TARGETS_UP
27	9.32	NULL	4 / 16	GSEA C2ASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_UP
28	9.3	NULL	2 / 13	GSEA C2ZIRN_TRETINOLIN_RESPONSE_UP
29	9.26	NULL	6 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HG
30	9.21	NULL	4 / 12	BP immunoglobulin mediated immune response
31	9.15	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
32	9.13	NULL	2 / 12	GSEA C2BIOCARTA_HDAC_PATHWAY
33	9.13	NULL	2 / 12	GSEA C2BIOCARTA_PGC1A_PATHWAY
34	9.04	NULL	2 / 12	GSEA C2LEE_RECENT_THYMIC_EMIGRANT
35	8.94	NULL	6 / 28	CC transport vesicle membrane
36	8.92	NULL	1 / 13	GSEA C2BIOCARTA_NFAT_PATHWAY
37	8.82	NULL	2 / 8	GSEA C2MCLACHLAN_DENTAL_CARIES_UP
38	8.69	NULL	37 / 265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
39	8.69	NULL	37 / 265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
40	8.69	NULL	37 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down

p-values



GW_290

Local Summary

%DE = 0.76
 # metagenes = 9
 # genes = 159
 # genes in genesets = 158

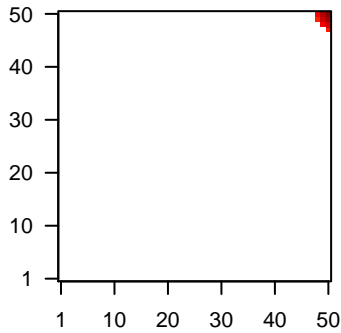
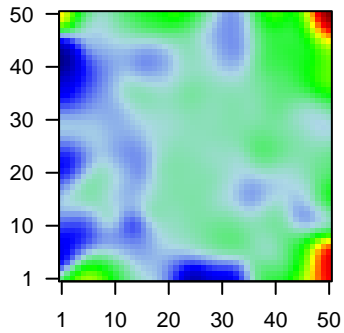
genes with $fdr < 0.1 = 95$ (82 + / 13 -)
 # genes with $fdr < 0.05 = 84$ (72 + / 12 -)
 # genes with $fdr < 0.01 = 74$ (66 + / 8 -)

<r> metagenes = 0.98
 <r> genes = 0.29

<FC> = 0.37
 <shrinkage-t> = 12.93
 <p-value> = 0
 <fdr> = 0.45

Profile

Spot



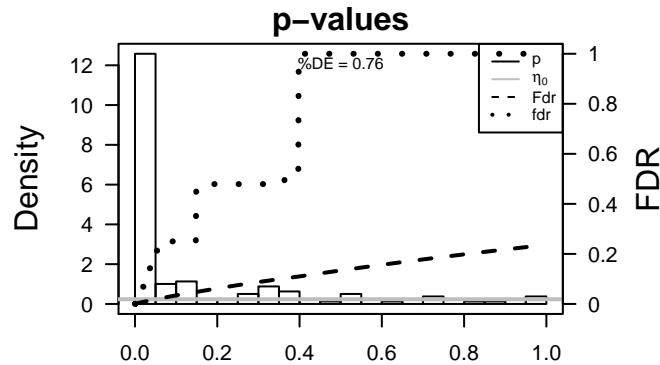
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	154664	1.24	2e-16	8e-16	50 x 50 ATP-binding cassette, sub-family A (ABC1), member 13 [Source:HGNC Symbol;Acc:31789]
2	344905	1.34	2e-16	8e-16	50 x 50 ATPase type 13A5 [Source:HGNC Symbol;Acc:31789]
3	29785	1.56	2e-16	8e-16	50 x 50 cytochrome P450, family 2, subfamily S, polypeptide 1 [Source:HGNC Symbol;Acc:31789]
4	10655	1.36	2e-16	8e-16	50 x 50 doublesex and mab-3 related transcription factor 2 [Source:HGNC Symbol;Acc:31789]
5	94234	1.35	2e-16	8e-16	50 x 50 forkhead box Q1 [Source:HGNC Symbol;Acc:20951]
6	3304	1.35	2e-16	8e-16	49 x 49 heat shock 70kDa protein 1A [Source:HGNC Symbol;Acc:521]
7	3866	1.72	2e-16	8e-16	50 x 50 keratin 15 [Source:HGNC Symbol;Acc:6421]
8	3880	1.28	2e-16	8e-16	50 x 49 keratin 19 [Source:HGNC Symbol;Acc:6436]
9	4922	1.66	2e-16	8e-16	50 x 50 neurotensin [Source:HGNC Symbol;Acc:8038]
10	79679	1.31	2e-16	8e-16	50 x 50 V-set domain containing T cell activation inhibitor 1 [Source:HGNC Symbol;Acc:31789]
11	2938	1.22	7e-16	3e-14	50 x 50 glutathione S-transferase alpha 2 [Source:HGNC Symbol;Acc:31789]
12	216	1.21	2e-15	4e-14	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC Symbol;Acc:31789]
13	3856	1.2	3e-15	4e-14	50 x 48 keratin 8 pseudogene 3 [Source:HGNC Symbol;Acc:31056]
14	84707	1.19	4e-15	5e-13	50 x 48 brain expressed X-linked 2 [Source:HGNC Symbol;Acc:3093]
15	9076	1.16	2e-14	1e-12	49 x 50 claudin 1 [Source:HGNC Symbol;Acc:2032]
16	2944	1.14	4e-14	2e-12	50 x 50 glutathione S-transferase mu 1 [Source:HGNC Symbol;Acc:4]
17	2730	1.12	2e-13	2e-12	50 x 50 glutamate-cysteine ligase, modifier subunit [Source:HGNC Symbol;Acc:31789]
18	4915	1.12	2e-13	3e-12	50 x 50 neurotrophic tyrosine kinase, receptor, type 2 [Source:HGNC Symbol;Acc:31789]
19	57291	1.11	3e-13	1e-11	50 x 50 differentiation antagonizing non-protein coding RNA [Source:HGNC Symbol;Acc:31789]
20	79190	1.09	6e-13	3e-10	50 x 47 iroquois homeobox 6 [Source:HGNC Symbol;Acc:14675]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	23.78	NULL	3 / 8	GSEA C2JUCDX2_TARGETS_DN
2	22.02	NULL	1 / 2	GSEA C2KUROKAWA_LIVER_CANCER_EARLY_RECURRENCE_UP
3	17.96	NULL	5 / 15	GSEA C2KEGG_GLUTATHIONE_METABOLISM
4	17.63	NULL	4 / 13	GSEA C2KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450
5	16.45	NULL	2 / 7	GSEA C2MCCOLLUM_GELDANAMYCIN_RESISTANCE_DN
6	15.26	NULL	3 / 13	BP regulation of blood vessel size
7	15.05	NULL	6 / 25	BP glutathione derivative biosynthetic process
8	14.83	NULL	4 / 15	GSEA C2REACTOME_GLUTATHIONE_CONJUGATION
9	14.54	NULL	3 / 12	GSEA C2BROCKE_APOPTOSIS_REVERSED_BY_IL6
10	14.15	NULL	2 / 9	GSEA C2BROWNE_HCMV_INFECTION_8HR_UP
11	13.41	NULL	8 / 34	BP glutathione metabolic process
12	12.62	NULL	2 / 11	GSEA C2CONCANNON_APOPTOSIS_BY_EPOXOMICIN_UP
13	12.32	NULL	2 / 10	GSEA C2CERVERA_SDHB_TARGETS_1_DN
14	12.15	NULL	1 / 5	GSEA C2DASU_IL6_SIGNALING_UP
15	12.14	NULL	11 / 119	BP xenobiotic metabolic process
16	12.11	NULL	5 / 20	BP glutathione transferase activity
17	11.86	NULL	2 / 9	GSEA C2NIKOLSKY_BREAST_CANCER_17P11_AMPLICON
18	11.11	NULL	3 / 11	MF glutathione binding
19	11.11	NULL	3 / 11	GSEA C2KEGG_DRUG_METABOLISM_CYTOCHROME_P450
20	10.97	NULL	2 / 12	BP cellular aldehyde metabolic process
21	10.88	NULL	1 / 6	GSEA C2SESTO_RESPONSE_TO_UV_C0
22	10.88	NULL	1 / 6	GSEA C2BIOCARTA_TID_PATHWAY
23	10.82	NULL	1 / 5	GSEA C2TURASHVIL_BREAST_CARCINOMA_DUCTAL_VS_LOBULAR_CARCINOMA
24	10.16	NULL	2 / 7	GSEA C2FREDERICK_PRKCI_TARGETS
25	9.92	NULL	1 / 7	GSEA C2WEINMANN_ADAPTATION_TO_HYPOXIA_UP
26	9.88	NULL	2 / 15	GSEA C2REACTOME_PHASE_II_CONJUGATION
27	9.22	NULL	2 / 10	GSEA C2KEGG_ASCORBATE_AND_ALDARATE_METABOLISM
28	9.16	NULL	1 / 8	GSEA C2BARRIER_CANCER_RELAPSE_NORMAL_SAMPLE_DN
29	9.16	NULL	1 / 8	GSEA C2ADDYA_ERYTHROID_DIFFERENTIATION_BY_HEMIN
30	9.16	NULL	1 / 8	GSEA C2CHANDRAN_METASTASIS_UP
31	9.16	NULL	1 / 8	GSEA C2WU_APOPTOSIS_BY_CDKN1A_NOT_VIA_TP53
32	9.16	NULL	1 / 8	GSEA C2KEGG_PRION_DISEASES
33	9.16	NULL	1 / 8	GSEA C2REACTOME_INFLUENZA_LIFE_CYCLE
34	9.15	NULL	2 / 11	GSEA C2SMID_BREAST_CANCER_BASAL_UP
35	9.15	NULL	2 / 9	GSEA C2REACTOME_METABOLISM_OF_AMINO_ACIDS
36	9.08	NULL	1 / 9	GSEA C2REACTOME_CYTOCHROME_P450_ARRANGED_BY_SUBSTRATE
37	8.91	NULL	1 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_DN
38	8.91	NULL	1 / 6	GSEA C2KAPOSI_LIVER_CANCER_POOR_SURVIVAL_DN
39	8.7	NULL	2 / 18	MF acyl-CoA dehydrogenase activity
40	8.59	NULL	1 / 11	Glio neurons_glio



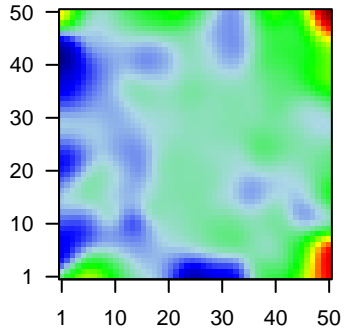
GW_290

Local Summary

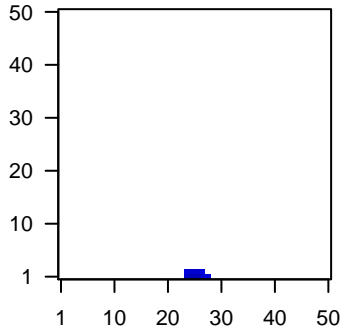
%DE = 0.82
 # metagenes = 9
 # genes = 93
 # genes in genesets = 93
 # genes with $fdr < 0.1$ = 51 (2 + / 49 -)
 # genes with $fdr < 0.05$ = 40 (1 + / 39 -)
 # genes with $fdr < 0.01$ = 32 (1 + / 31 -)

<r> metagenes = 0.95
 <r> genes = 0.62
 <FC> = -0.33
 <shrinkage-t> = -11.55
 <p-value> = 0.01
 <fdr> = 0.58

Profile



Spot



Local Genelist

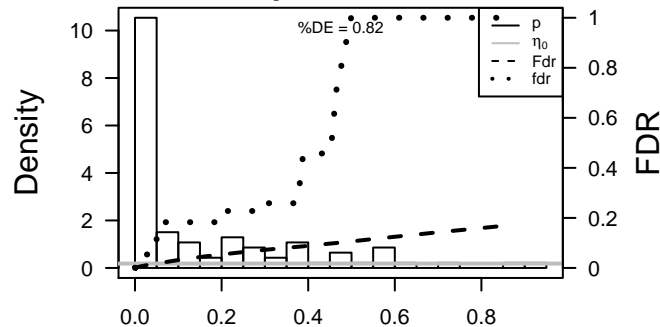
Rank	ID	log(FC)	fdr	p-value	Description
1	388115	-1.27	2e-16	4e-15	26 x 2 chromosome 15 open reading frame 52 [Source:HGNC Synt
2	58	-1.18	6e-15	4e-11	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
3	6588	-1.06	2e-12	9e-08	25 x 1 sarcolipin [Source:HGNC Symbol;Acc:11089]
4	1410	-0.89	5e-09	9e-07	25 x 1 crystallin, alpha B [Source:HGNC Symbol;Acc:2389]
5	1158	-0.82	6e-08	3e-06	25 x 1 creatine kinase, muscle [Source:HGNC Symbol;Acc:1994]
6	1917	-0.78	2e-07	7e-06	25 x 1 eukaryotic translation elongation factor 1 alpha 2 [Source:HG
7	84448	-0.75	6e-07	3e-05	25 x 1 actin binding LIM protein family, member 2 [Source:HGNC Sy
8	70	-0.72	2e-06	4e-05	25 x 1 actin, alpha, cardiac muscle 1 [Source:HGNC Symbol;Acc:14
9	5269	-0.69	6e-06	4e-05	28 x 1 serpin peptidase inhibitor, clade B (ovalbumin), member 6 [Sc
10	7136	-0.68	6e-06	3e-04	25 x 1 troponin I type 2 (skeletal, fast) [Source:HGNC Symbol;Acc:1
11	4620	-0.64	3e-05	3e-04	25 x 1 myosin, heavy chain 2, skeletal muscle, adult [Source:HGNC
12	4151	-0.62	4e-05	4e-04	25 x 1 myoglobin [Source:HGNC Symbol;Acc:6915]
13	10324	-0.6	7e-05	9e-04	25 x 1 kelch-like family member 41 [Source:HGNC Symbol;Acc:169
14	2318	-0.57	2e-04	9e-04	25 x 1 filamin C, gamma [Source:HGNC Symbol;Acc:3756]
15	22998	-0.57	2e-04	2e-03	24 x 1 LIM and calponin homology domains 1 [Source:HGNC Symb
16	4608	-0.53	5e-04	2e-03	25 x 1 myosin binding protein H [Source:HGNC Symbol;Acc:7552]
17	4633	-0.53	5e-04	2e-03	25 x 1 myosin, light chain 2, regulatory, cardiac, slow [Source:HGNC
18	7138	-0.52	6e-04	2e-03	25 x 1 troponin T type 1 (skeletal, slow) [Source:HGNC Symbol;Acc:
19	22921	-0.52	6e-04	2e-03	28 x 1 methionine sulfoxide reductase B2 [Source:HGNC Symbol;Ac
20	9172	-0.51	7e-04	2e-03	24 x 1 myomesin 2 [Source:HGNC Symbol;Acc:7614]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-45.78	NULL	11 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
2	-45.5	NULL	47 / 127	H.Tiss WIRTH_Muscle
3	-44.02	NULL	22 / 36	BP muscle filament sliding
4	-41.41	NULL	9 / 16	H.Tiss WIRTH_Hippocampus
5	-31.86	NULL	9 / 12	CC myosin filament
6	-30.22	NULL	21 / 44	BP structural constituent of muscle
7	-26.91	NULL	21 / 84	MF muscle contraction
8	-25.26	NULL	11 / 37	CC sarcomere
9	-24.74	NULL	6 / 12	BP skeletal muscle contraction
10	-24.06	NULL	7 / 16	CC M band
11	-22.81	NULL	13 / 34	CC myofibril
12	-20.98	NULL	7 / 13	CC muscle myosin complex
13	-20.89	NULL	9 / 20	CC I band
14	-20.24	NULL	2 / 6	GSEA C2BIOCARTA_HSP27_PATHWAY
15	-19.1	NULL	7 / 14	CC contractile fiber
16	-17.78	NULL	9 / 37	BP cardiac muscle contraction
17	-16.98	NULL	5 / 11	BP cardiac muscle tissue morphogenesis
18	-16.82	NULL	3 / 15	Cancer BEN-PORATH_UP
19	-16.33	NULL	6 / 12	MF titin binding
20	-16.14	NULL	18 / 88	CC Z disc
21	-14.1	NULL	6 / 18	BP regulation of muscle contraction
22	-13.63	NULL	2 / 20	MF myosin binding
23	-13.19	NULL	1 / 9	GSEA C2PENG_GLUCCOSE_DEPRIVATION_UP
24	-13.19	NULL	1 / 9	GSEA C2PENG_GLUCCOSE_DEPRIVATION_DN
25	-13.1	NULL	2 / 10	BP heart contraction
26	-12.52	NULL	4 / 15	BP striated muscle contraction
27	-12.44	NULL	1 / 6	GSEA C2Y_AGING_OLD_UP
28	-12.42	NULL	1 / 10	GSEA C2BIOCARTA_EPHA4_PATHWAY
29	-12.27	NULL	23 / 297	MF actin binding
30	-12.16	NULL	4 / 11	CC A band
31	-12.06	NULL	2 / 14	GSEA C2BIOCARTA_UCALPAIN_PATHWAY
32	-11.96	NULL	4 / 14	MF tropomyosin binding
33	-11.6	NULL	2 / 15	GSEA C2BIOCARTA_INTEGRIN_PATHWAY
34	-11.21	NULL	1 / 5	GSEA C2LIU_VAV3_PROSTATE_CARCINOGENESIS_UP
35	-11.2	NULL	2 / 14	BP actomyosin structure organization
36	-11.19	NULL	1 / 12	GSEA C2BIOCARTA_NO1_PATHWAY
37	-11.19	NULL	1 / 12	GSEA C2BIOCARTA_RAB_PATHWAY
38	-11.01	NULL	1 / 14	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1
39	-10.99	NULL	2 / 15	BP skeletal muscle fiber development
40	-10.85	NULL	4 / 36	CC sarcoplasmic reticulum

p-values



GW_290

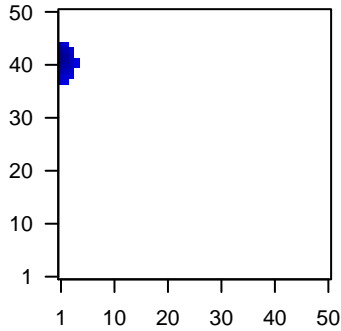
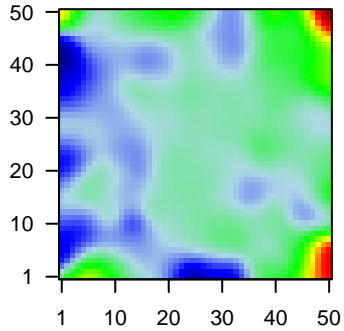
Local Summary

%DE = 0.61
 # metagenes = 24
 # genes = 271
 # genes in genesets = 266
 # genes with $fdr < 0.1 = 114$ (25 + / 89 -)
 # genes with $fdr < 0.05 = 113$ (25 + / 88 -)
 # genes with $fdr < 0.01 = 63$ (14 + / 49 -)

<r> metagenes = 0.97
 <r> genes = 0.31
 <FC> = -0.18
 <shrinkage-t> = -6.4
 <p-value> = 0.01
 <fdr> = 0.6

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	147495	1.29	2e-16	5e-15	2 x 44 adenomatosis polyposis coli down-regulated 1 [Source:HGNC]
2	118430	1.51	2e-16	5e-15	2 x 44 mucin-like 1 [Source:HGNC Symbol;Acc:30588]
3	56901	-1.25	2e-16	5e-15	1 x 44 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-i
4	5744	1.35	2e-16	5e-15	1 x 43 parathyroid hormone-like hormone [Source:HGNC Symbol;A
5	5836	-1.34	2e-16	5e-15	1 x 44 phosphorylase, glycogen, liver [Source:HGNC Symbol;Acc:9]
6	113146	-1.1	4e-13	3e-11	1 x 44 AHNAK nucleoprotein 2 [Source:HGNC Symbol;Acc:20125]
7	3552	-1.09	6e-13	1e-09	1 x 43 interleukin 1, alpha [Source:HGNC Symbol;Acc:5991]
8	1984	1.02	1e-11	2e-08	1 x 37 eukaryotic translation initiation factor 5A [Source:HGNC Syml
9	2152	-0.97	2e-10	3e-08	1 x 43 coagulation factor III (thromboplastin, tissue factor) [Source:H
10	303	-0.93	8e-10	3e-08	3 x 41
11	79413	-0.93	8e-10	4e-08	1 x 43 zinc finger, BED-type containing 2 [Source:HGNC Symbol;Ac
12	27242	0.92	1e-09	8e-08	1 x 40 tumor necrosis factor receptor superfamily, member 21 [Sour
13	1515	-0.91	2e-09	1e-07	1 x 44 cathepsin V [Source:HGNC Symbol;Acc:2538]
14	347735	-0.9	3e-09	3e-07	1 x 43 serine incorporator 2 [Source:HGNC Symbol;Acc:23231]
15	858	-0.87	8e-09	3e-07	1 x 42 caveolin 2 [Source:HGNC Symbol;Acc:1528]
16	51200	-0.87	1e-08	3e-07	1 x 44 carboxypeptidase A4 [Source:HGNC Symbol;Acc:15740]
17	1288	-0.86	1e-08	5e-06	1 x 43 collagen, type IV, alpha 6 [Source:HGNC Symbol;Acc:2208]
18	10397	-0.73	1e-07	5e-06	1 x 42 N-myc downstream regulated 1 [Source:HGNC Symbol;Acc:
19	2150	-0.8	1e-07	5e-06	1 x 44 coagulation factor II (thrombin) receptor-like 1 [Source:HGNC
20	6281	-0.73	2e-07	6e-06	1 x 42 S100 calcium binding protein A10 [Source:HGNC Symbol;Ac

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-10.5	NULL	1 / 4	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_DN
2	-10.46	NULL	4 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
3	-10.21	NULL	2 / 6	GSEA C2WALLACE_PROSTATE_CANCER_DN
4	-9.76	NULL	2 / 11	BP positive regulation of positive chemotaxis
5	-9.55	NULL	2 / 2	miRNA target-199a*
6	-9.51	NULL	3 / 15	GSEA C2BROWNE_HCMV_INFECTION_2HR_DN
7	-9.49	NULL	1 / 7	GSEA C2BIOCARTA_FEEDER_PATHWAY
8	-8.78	NULL	2 / 14	GSEA C2HOEGERKORP_CD44_TARGETS_DIRECT_UP
9	-8.51	NULL	2 / 11	GSEA C2MIDORIKAWA_AMPLIFIED_IN_LIVER_CANCER
10	-8.37	NULL	1 / 6	GSEA C2SEIKE_LUNG_CANCER_POOR_SURVIVAL
11	-7.95	NULL	2 / 16	GSEA C2JZONYI_RESPONSE_TO_LEUKOTRIENE_AND_THROMBIN
12	-7.94	NULL	2 / 15	GSEA C2KANG_CISPLATIN_RESISTANCE_UP
13	-7.82	NULL	3 / 16	GSEA C2HARRIS_HYPOXIA
14	-7.79	NULL	2 / 15	GSEA C2NAGASHIMA_NRG1_SIGNALING_DN
15	-7.71	NULL	2 / 11	BP response to metal ion
16	-7.52	NULL	3 / 16	GSEA C2ELVIDGE_HYPOXIA_BY_DMOG_UP
17	-7.39	NULL	1 / 6	GSEA C2MAINA_HYPOXIA_VHL_TARGETS_UP
18	-7.39	NULL	1 / 11	MF AMP binding
19	-7.12	NULL	2 / 11	GSEA C2BIOCARTA_VITCB_PATHWAY
20	-7.1	NULL	3 / 15	GSEA C2FARMER_BREAST_CANCER_CLUSTER_3
21	-7.05	NULL	1 / 12	H.Tiss WIRTH_Prim. lymphoid organs
22	-6.85	NULL	3 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_4
23	-6.74	NULL	1 / 13	GSEA C2REACTOME_GLYCOGEN_BREAKDOWN_GLYCOGENOLYSIS
24	-6.74	NULL	1 / 5	GSEA C2KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_4NC
25	-6.71	NULL	3 / 15	GSEA C2LEE_LIVER_CANCER_DENA_UP
26	-6.69	NULL	2 / 15	GSEA C2TAKAO_RESPONSE_TO_UVB_RADIATION_DN
27	-6.53	NULL	1 / 7	GSEA C2FUNG_IL2_TARGETS_WITH_STAT5_BINDING_SITES_T1
28	-6.45	NULL	2 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
29	-6.45	NULL	2 / 16	GSEA C2LEE_LIVER_CANCER_ACOX1_UP
30	-6.44	NULL	2 / 16	CC extrinsic to plasma membrane
31	-6.43	NULL	2 / 5	miRNA target-1426
32	-6.36	NULL	1 / 4	miRNA target-206
33	-6.36	NULL	2 / 13	BP response to copper ion
34	-6.3	NULL	1 / 10	GSEA C2BIOCARTA_LYM_PATHWAY
35	-6.29	NULL	3 / 12	GSEA C2REACTOME_GAP_JUNCTION_ASSEMBLY
36	-6.28	NULL	4 / 16	GSEA C2ELVIDGE_HIF1A_TARGETS_DN
37	-6.18	NULL	4 / 15	GSEA C2KOBAYASHI_EGFR_SIGNALING_6HR_DN
38	-6.11	NULL	2 / 10	BP positive regulation of Rho protein signal transduction
39	-6.08	NULL	1 / 6	GSEA C2KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_UV
40	-6	NULL	2 / 16	GSEA C2SESTO_RESPONSE_TO_UV_C2

p-values

