

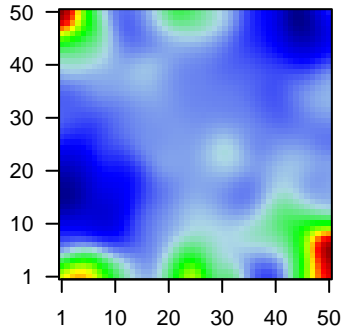
GW_079

Global Summary

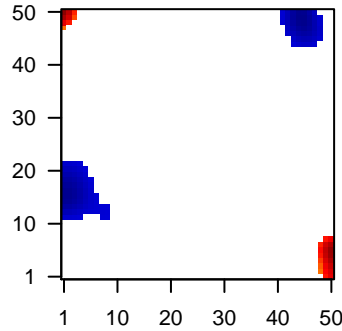
%DE = 0.13
 # genes with fdr < 0.2 = 1532 (1066 + / 466 -)
 # genes with fdr < 0.1 = 1170 (883 + / 287 -)
 # genes with fdr < 0.05 = 1034 (810 + / 224 -)
 # genes with fdr < 0.01 = 796 (672 + / 124 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.1
 <fdr> = 0.87

Profile



Regulated Spots



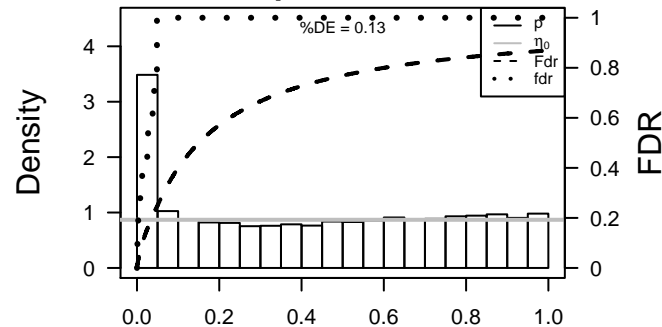
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	2	1.34	2e-16	2e-14	50 x 5 alpha-2-macroglobulin [Source:HGNC Symbol;Acc:7]
2	25890	1.33	2e-16	2e-14	50 x 4 ABI family, member 3 (NESH) binding protein [Source:HGNC
3	58	2.41	2e-16	2e-14	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
4	9510	1.18	2e-16	2e-14	6 x 1 ADAM metallopeptidase with thrombospondin type 1 motif, 1
5	196883	1.18	2e-16	2e-14	50 x 7 adenylate cyclase 4 [Source:HGNC Symbol;Acc:235]
6	131	1.82	2e-16	2e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
7	218	1.34	2e-16	2e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
8	347	2.15	2e-16	2e-14	50 x 7 apolipoprotein D [Source:HGNC Symbol;Acc:612]
9	81575	1.44	2e-16	2e-14	7 x 1 apolipoprotein L domain containing 1 [Source:HGNC Symbol;
10	10974	1.2	2e-16	2e-14	5 x 50 adipogenesis regulatory factor [Source:HGNC Symbol;Acc:24
11	56892	2.02	2e-16	2e-14	50 x 7 chromosome 8 open reading frame 4 [Source:HGNC Symbol
12	375791	1.5	2e-16	2e-14	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
13	57172	2.07	2e-16	2e-14	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
14	6358	1.99	2e-16	2e-14	50 x 7 chemokine (C-C motif) ligand 14 [Source:HGNC Symbol;Acc
15	6347	1.4	2e-16	2e-14	50 x 4 chemokine (C-C motif) ligand 2 [Source:HGNC Symbol;Acc:
16	6366	1.34	2e-16	2e-14	50 x 2 chemokine (C-C motif) ligand 21 [Source:HGNC Symbol;Acc
17	6355	1.29	2e-16	2e-14	32 x 1 chemokine (C-C motif) ligand 8 [Source:HGNC Symbol;Acc:
18	22918	1.4	2e-16	2e-14	4 x 1 CD93 molecule [Source:HGNC Symbol;Acc:15855]
19	1675	2.28	2e-16	2e-14	50 x 9 complement factor D (adipsin) [Source:HGNC Symbol;Acc:27
20	3075	1.24	2e-16	2e-14	50 x 7 complement factor H [Source:HGNC Symbol;Acc:4883]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	20.96	NULL	135	H.Tiss WIRTH_Mucosa
2	19.74	NULL	553	Cancer Lembcke_Colonc Inflammation
3	17.83	NULL	683	CC extracellular space
4	17.8	NULL	1182	CC extracellular region
5	14.4	NULL	312	BP immune response
6	13.12	NULL	190	CC extracellular matrix
7	12.99	NULL	572	Disease GUDJ_psooriasis up
8	12.87	NULL	53	BP keratinocyte differentiation
9	12.58	NULL	21	CC cornified envelope
10	12.25	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
11	12.2	NULL	250	LymphomaENZ_Stromal signature 1
12	12.2	NULL	265	Glio willscher_GBM_Verhaak-CL_expression_B_up
13	12.2	NULL	265	Glio willscher_GBM_Verhaak-MES_expression_B_up
14	12.2	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
15	12.2	NULL	265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
16	11.52	NULL	127	H.Tiss WIRTH_Muscle
17	11.48	NULL	59	LymphomaENZ_Stromal signature 2
18	11.31	NULL	19	BP peptide cross-linking
19	11.27	NULL	16	H.Tiss WIRTH_Hippocampus
20	10.9	NULL	129	BP response to lipopolysaccharide
<i>Underexpressed</i>				
1	-14.03	NULL	142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	-14.03	NULL	142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	-11.73	NULL	370	BP mitotic cell cycle
4	-10.36	NULL	949	CC nucleoplasm
5	-8.46	NULL	530	Cancer Lembcke_Normal vs Adenoma
6	-7.98	NULL	4640	CC nucleus
7	-7.96	NULL	298	BP DNA repair
8	-7.86	NULL	1233	TF KIM_MYC targets
9	-7.83	NULL	232	BP mitosis
10	-7.32	NULL	649	BP gene expression
11	-7.13	NULL	149	BP DNA replication
12	-6.39	NULL	30	BP DNA strand elongation involved in DNA replication
13	-6.37	NULL	1318	CC mitochondrion
14	-6.16	NULL	940	MF nucleic acid binding
15	-6.09	NULL	16	GSEA C2GUCHI_CELL_CYCLE_RB1_TARGETS
16	-5.96	NULL	56	CC chromosome, centromeric region
17	-5.92	NULL	163	BP mRNA splicing, via spliceosome
18	-5.92	NULL	1749	MF DNA binding
19	-5.86	NULL	16	GSEA C2FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL
20	-5.71	NULL	717	Chr Chr 16

p-values



GW_079

Local Summary

%DE = 0.87
 # metagenes = 22
 # genes = 347
 # genes in genesets = 346

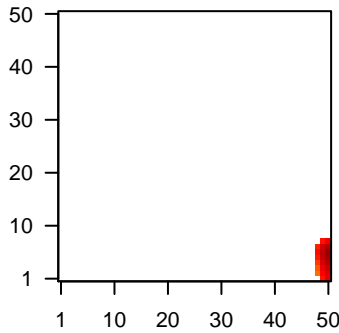
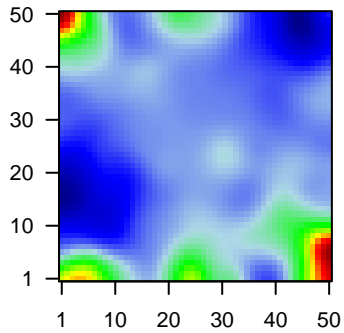
genes with $fdr < 0.1$ = 288 (284 + / 4 -)
 # genes with $fdr < 0.05$ = 258 (255 + / 3 -)
 # genes with $fdr < 0.01$ = 232 (230 + / 2 -)

<r> metagenes = 0.92
 <r> genes = 0.44

<FC> = 0.62
 <shrinkage-t> = 21.6
 <p-value> = 0
 <fdr> = 0.28

Profile

Spot



Local Genelist

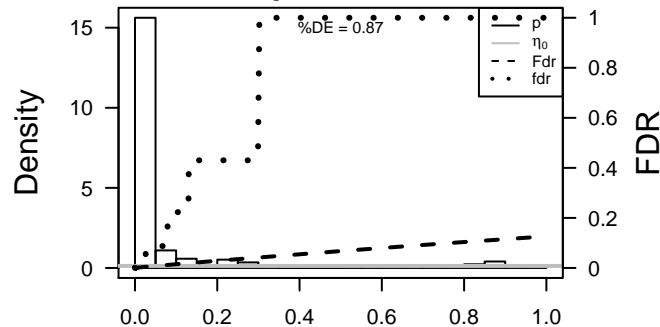
Rank	ID	log(FC)	fdr	p-value	Description
1	2	1.34	2e-16	2e-16	50 x 5 alpha-2-macroglobulin [Source:HGNC Symbol;Acc:7]
2	25890	1.33	2e-16	2e-16	50 x 4 ABI family, member 3 (NESH) binding protein [Source:HGNC
3	196883	1.18	2e-16	2e-16	50 x 7 adenylate cyclase 4 [Source:HGNC Symbol;Acc:235]
4	347	2.15	2e-16	2e-16	50 x 7 apolipoprotein D [Source:HGNC Symbol;Acc:612]
5	56892	2.02	2e-16	2e-16	50 x 7 chromosome 8 open reading frame 4 [Source:HGNC Symbol
6	57172	2.07	2e-16	2e-16	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
7	6358	1.99	2e-16	2e-16	50 x 7 chemokine (C-C motif) ligand 14 [Source:HGNC Symbol;Acc
8	6347	1.4	2e-16	2e-16	50 x 4 chemokine (C-C motif) ligand 2 [Source:HGNC Symbol;Acc:1
9	6366	1.34	2e-16	2e-16	50 x 2 chemokine (C-C motif) ligand 21 [Source:HGNC Symbol;Acc
10	3075	1.24	2e-16	2e-16	50 x 7 complement factor H [Source:HGNC Symbol;Acc:4883]
11	5010	1.29	2e-16	2e-16	50 x 7 claudin 11 [Source:HGNC Symbol;Acc:8514]
12	7122	1.39	2e-16	2e-16	50 x 6 claudin 5 [Source:HGNC Symbol;Acc:2047]
13	7123	1.14	2e-16	2e-16	50 x 7 C-type lectin domain family 3, member B [Source:HGNC Syn
14	1359	1.24	2e-16	2e-16	50 x 7 carboxypeptidase A3 (mast cell) [Source:HGNC Symbol;Acc:
15	1363	1.5	2e-16	2e-16	50 x 7 carboxypeptidase E [Source:HGNC Symbol;Acc:2303]
16	51755	1.73	2e-16	2e-16	49 x 1 cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:242:
17	1511	1.49	2e-16	2e-16	50 x 7 cathepsin G [Source:HGNC Symbol;Acc:2532]
18	6387	1.35	2e-16	2e-16	50 x 6 chemokine (C-X-C motif) ligand 12 [Source:HGNC Symbol;A
19	79901	1.31	2e-16	2e-16	50 x 7 cytochrome b reductase 1 [Source:HGNC Symbol;Acc:20797
20	1545	1.6	2e-16	2e-16	50 x 4 cytochrome P450, family 1, subfamily B, polypeptide 1 [Sourc

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	20.54	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
2	17.37	NULL	4 / 8	GSEA C2GRAHAM_CML QUIESCENT_VS_NORMAL_DIVIDING_DN
3	16.37	NULL	5 / 9	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIIS_DN
4	15.84	NULL	7 / 12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN
5	14.83	NULL	3 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
6	14.54	NULL	45 / 312	BP immune response
7	14.1	NULL	88 / 553	Cancer Lembecke_Colonc Inflammation
8	13.33	NULL	4 / 15	GSEA C2NAKAJIMA_MAST_CELL
9	12.87	NULL	7 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HG
10	12.85	NULL	6 / 15	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_GRANULO
11	12.63	NULL	4 / 7	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED
12	12.36	NULL	10 / 43	MF chemokine activity
13	12.28	NULL	50 / 683	CC extracellular space
14	12.2	NULL	3 / 11	GSEA C2GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP
15	11.94	NULL	10 / 15	CC MHC class II protein complex
16	11.82	NULL	69 / 1182	CC extracellular region
17	11.41	NULL	4 / 12	GSEA C2BERTUCCI_INVASIVE_CARCINOMA_DUCTAL_VS_LOBULAR_D
18	10.58	NULL	4 / 10	GSEA C2LU_TUMOR_VASCULATURE_DN
19	10.56	NULL	3 / 14	MF lipid transporter activity
20	10.47	NULL	4 / 16	GSEA C2GRAHAM_CML QUIESCENT_VS_NORMAL_DIVIDING_UP
21	10.39	NULL	3 / 14	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LUNG_DN
22	10.28	NULL	42 / 265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
23	10.28	NULL	42 / 265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
24	10.28	NULL	42 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
25	10.28	NULL	42 / 265	Glio wilscher_GBM_Verhaak-PNmut_expression_B_down
26	10.06	NULL	6 / 59	LymphomaENZ_Stromal signature 2
27	9.96	NULL	6 / 15	Cancer GENTLES_modul13
28	9.93	NULL	3 / 9	GSEA C2GUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_2
29	9.77	NULL	4 / 10	BP germ cell migration
30	9.62	NULL	16 / 112	MF heparin binding
31	9.51	NULL	66 / 417	H.Tiss WIRTH_Immune system
32	9.51	NULL	4 / 10	GSEA C2DUNNE_TARGETS_OF_AML1_MTG8_FUSION_UP
33	9.49	NULL	3 / 7	GSEA C2WALLACE_PROSTATE_CANCER_RACE_UP
34	9.29	NULL	3 / 21	BP chemokine-mediated signaling pathway
35	9.16	NULL	5 / 14	BP ruffle organization
36	9.15	NULL	2 / 6	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_UP
37	9.14	NULL	6 / 16	GSEA C2BOQUEST_STEM_CELL_CULTURED_VS_FRESH_DN
38	9.09	NULL	4 / 27	BP negative regulation of smooth muscle cell proliferation
39	9.01	NULL	7 / 20	BP complement activation
40	9.01	NULL	8 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1

p-values



GW_079

Local Summary

%DE = 0.93
 # metagenes = 9
 # genes = 158
 # genes in genesets = 153

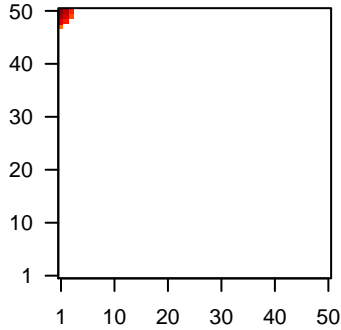
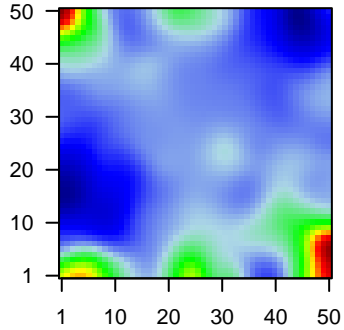
genes with $fdr < 0.1 = 144$ (141 + / 3 -)
 # genes with $fdr < 0.05 = 125$ (124 + / 1 -)
 # genes with $fdr < 0.01 = 122$ (121 + / 1 -)

<r> metagenes = 0.98
 <r> genes = 0.5

<FC> = 0.81
 <shrinkage-t> = 28.75
 <p-value> = 0
 <fdr> = 0.21

Profile

Spot



Local Genelist

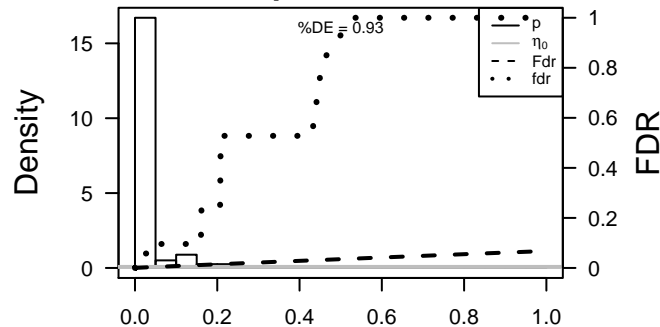
Rank	ID	log(FC)	fdr	p-value	Description
1	131	1.82	2e-16	6e-17	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
2	218	1.34	2e-16	6e-17	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC]
3	375791	1.5	2e-16	6e-17	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
4	22802	2.13	2e-16	6e-17	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
5	9022	1.32	2e-16	6e-17	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2l
6	84518	1.49	2e-16	6e-17	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
7	54544	1.55	2e-16	6e-17	1 x 50 cysteine-rich C-terminal 1 [Source:HGNC Symbol;Acc:2987
8	49860	3.18	2e-16	6e-17	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
9	414325	1.29	2e-16	6e-17	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
10	2312	2.08	2e-16	6e-17	1 x 49 filaggrin [Source:HGNC Symbol;Acc:3748]
11	163351	1.42	2e-16	6e-17	1 x 50 guanylate binding protein family, member 6 [Source:HGNC S
12	26085	1.2	2e-16	6e-17	1 x 50 kallikrein-related peptidase 13 [Source:HGNC Symbol;Acc:6
13	5650	1.55	2e-16	6e-17	1 x 49 kallikrein-related peptidase 7 [Source:HGNC Symbol;Acc:63
14	3848	1.6	2e-16	6e-17	1 x 47 keratin 1 [Source:HGNC Symbol;Acc:6412]
15	3860	1.4	2e-16	6e-17	1 x 50 keratin 13 [Source:HGNC Symbol;Acc:6415]
16	192666	-1.37	2e-16	6e-17	1 x 50 keratin 24 [Source:HGNC Symbol;Acc:18527]
17	3851	2.25	2e-16	6e-17	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]
18	196374	1.64	2e-16	6e-17	1 x 50 keratin 78 [Source:HGNC Symbol;Acc:28926]
19	388533	1.8	2e-16	6e-17	1 x 49 keratinocyte differentiation-associated protein [Source:HGNC
20	3963	1.24	2e-16	6e-17	1 x 47 lectin, galactoside-binding, soluble, 7 [Source:HGNC Symbol

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	56.17	NULL	67 / 135	H.Tiss WIRTH_Mucosa
2	35.19	NULL	15 / 21	CC cornified envelope
3	31.15	NULL	18 / 42	BP keratinization
4	30.56	NULL	20 / 53	BP keratinocyte differentiation
5	24.99	NULL	8 / 19	BP peptide cross-linking
6	22.18	NULL	18 / 76	BP epidermis development
7	22.03	NULL	73 / 572	Disease GUDJ_psooriasis up
8	19.8	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
9	18.27	NULL	7 / 15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
10	16.09	NULL	5 / 16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
11	15.3	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS KERATINOCYTE_DN
12	14.85	NULL	2 / 8	GSEA C2LIU_CDX2_TARGETS_DN
13	14.28	NULL	6 / 13	BP negative regulation of peptidase activity
14	13.93	NULL	8 / 44	CC keratin filament
15	12.12	NULL	17 / 186	MF structural molecule activity
16	12.11	NULL	4 / 10	MF RAGE receptor binding
17	11.69	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
18	11.66	NULL	3 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
19	11.28	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARINOMA_DN
20	10.9	NULL	2 / 15	GSEA C2ALONSO_METASTASIS_NEURAL_UP
21	10.65	NULL	3 / 16	GSEA C2DAZARD_UV_RESPONSE_CLUSTER_G24
22	10.54	NULL	10 / 82	CC intermediate filament
23	9.81	NULL	11 / 122	MF serine-type endopeptidase activity
24	9.51	NULL	10 / 79	MF serine-type endopeptidase inhibitor activity
25	9.42	NULL	44 / 1182	CC extracellular region
26	9.23	NULL	1 / 11	Glio VERHAAK_Brain
27	9.2	NULL	5 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
28	8.81	NULL	1 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_B_DN
29	8.75	NULL	1 / 12	MF channel activity
30	8.42	NULL	3 / 15	GSEA C2CHANG_IMMORTALIZED_BY_HPV31_DN
31	8.41	NULL	5 / 38	BP epithelial cell differentiation
32	8.34	NULL	1 / 13	GSEA C2HASLINGER_B_CLL_WITH_MUTATED_VH_GENES
33	8.25	NULL	4 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
34	8.22	NULL	3 / 16	GSEA C2HAHTOLA_MYCOSIS_FUNGOIDES_SKIN_DN
35	8.13	NULL	4 / 15	MF retinol dehydrogenase activity
36	8	NULL	3 / 13	H.Tiss WIRTH_Tonsil
37	7.92	NULL	3 / 16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
38	7.86	NULL	2 / 12	MF retinol binding
39	7.79	NULL	2 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
40	7.75	NULL	4 / 23	MF peptidase inhibitor activity

p-values



GW_079

Local Summary

%DE = 0.73
 # metagenes = 70
 # genes = 583
 # genes in genesets = 579

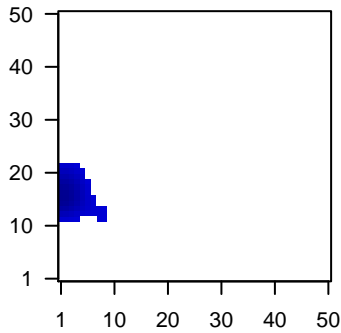
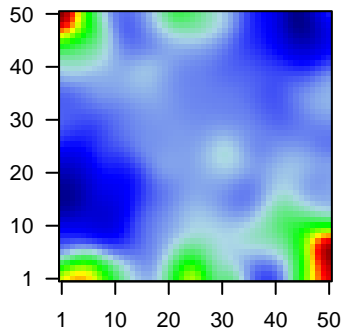
genes with $fdr < 0.1 = 242$ (3 + / 239 -)
 # genes with $fdr < 0.05 = 171$ (0 + / 171 -)
 # genes with $fdr < 0.01 = 40$ (0 + / 40 -)

<r> metagenes = 0.87
 <r> genes = 0.24

<FC> = -0.23
 <shrinkage-t> = -8.12
 <p-value> = 0.05
 <fdr> = 0.75

Profile

Spot



Local Genelist

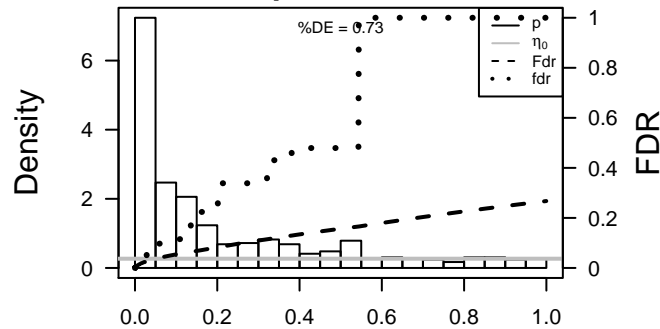
Rank	ID	log(FC)	fdr	p-value	Description
1	284085	-1.2	2e-16	3e-14	3 x 18 keratin 18 pseudogene 55 [Source:HGNC Symbol;Acc:26874
2	10428	-1.11	1e-15	6e-07	1 x 15 craniofacial development protein 1 [Source:HGNC Symbol;Ac
3	3217	-0.82	4e-09	6e-06	1 x 15 homeobox B7 [Source:HGNC Symbol;Acc:5118]
4	1152	-0.75	7e-08	6e-06	1 x 17 creatine kinase, brain [Source:HGNC Symbol;Acc:1991]
5	27237	-0.75	8e-08	1e-04	2 x 20 Rho guanine nucleotide exchange factor (GEF) 16 [Source:Hi
6	51367	-0.68	1e-06	1e-04	1 x 17 processing of precursor 5, ribonuclease P/MRP subunit (S. ca
7	3326	-0.65	2e-06	1e-04	1 x 14 heat shock protein 90kDa alpha (cytosolic), class B member
8	5214	-0.66	2e-06	3e-04	1 x 13 phosphofructokinase, platelet [Source:HGNC Symbol;Acc:88
9	51069	-0.63	5e-06	3e-04	2 x 18 mitochondrial ribosomal protein L2 [Source:HGNC Symbol;Ac
10	6389	-0.62	9e-06	3e-04	1 x 12 succinate dehydrogenase complex, subunit A, flavoprotein (F
11	5693	-0.61	1e-05	3e-04	1 x 16 proteasome (prosome, macropain) subunit, beta type, 5 [Sou
12	8570	-0.61	1e-05	3e-04	2 x 19 KH-type splicing regulatory protein [Source:HGNC Symbol;A
13	220064	-0.61	1e-05	3e-04	1 x 14 oral cancer overexpressed 1 [Source:HGNC Symbol;Acc:175
14	29763	-0.61	1e-05	3e-04	1 x 20 protein kinase C and casein kinase substrate in neurons 3 [Si
15	10963	-0.6	2e-05	3e-04	1 x 16 stress-induced-phosphoprotein 1 [Source:HGNC Symbol;Ac
16	8772	-0.6	2e-05	3e-04	1 x 14 Fas (TNFRSF6)-associated via death domain [Source:HGNC
17	89780	-0.59	2e-05	3e-04	4 x 15 wingless-type MMTV integration site family, member 3A [Sou
18	5702	-0.59	2e-05	3e-04	1 x 19 proteasome (prosome, macropain) 26S subunit, ATPase, 3 [S
19	430	-0.59	2e-05	3e-04	2 x 20 achaete-scute family bHLH transcription factor 2 [Source:HG
20	219927	-0.59	3e-05	2e-03	1 x 15 mitochondrial ribosomal protein L21 [Source:HGNC Symbol;L

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-9.36	NULL	4 / 15	GSEA C2VANTVEER_BREAST_CANCER_BRCA1_UP
2	-9.31	NULL	5 / 13	GSEA C2REACTOME_GLYCOLYSIS
3	-8.77	NULL	10 / 37	CC mitochondrial nucleoid
4	-8.51	NULL	14 / 66	BP positive regulation of ubiquitin-protein ligase activity involved in mi
5	-8.4	NULL	12 / 48	BP regulation of cellular amino acid metabolic process
6	-8.31	NULL	118 / 1318	CC mitochondrion
7	-8.19	NULL	14 / 70	BP regulation of ubiquitin-protein ligase activity involved in mitotic cell
8	-8.14	NULL	12 / 55	CC proteasome complex
9	-8.1	NULL	5 / 16	GSEA C2BIOCARTA_PTDINS_PATHWAY
10	-7.9	NULL	14 / 74	BP anaphase-promoting complex-dependent proteasomal ubiquitin-o
11	-7.89	NULL	13 / 62	BP negative regulation of ubiquitin-protein ligase activity involved in m
12	-7.87	NULL	6 / 15	GSEA C2ZHANG_RESPONSE_TO_CANTHARIDIN_DN
13	-7.82	NULL	6 / 17	CC proteasome accessory complex
14	-7.71	NULL	1 / 2	miRNA target-16-1
15	-7.54	NULL	4 / 11	MMML C6CIEJ_MMML_15
16	-7.29	NULL	4 / 9	GSEA C2BIOCARTA_GLYCOLYSIS_PATHWAY
17	-7.25	NULL	26 / 153	MF structural constituent of ribosome
18	-7.07	NULL	4 / 9	GSEA C2CAFFAREL_RESPONSE_TO_THC_8HR_3_DN
19	-6.95	NULL	54 / 530	Cancer Lembcke_Normal vs Adenoma
20	-6.94	NULL	26 / 242	BP RNA metabolic process
21	-6.74	NULL	6 / 14	GSEA C2LOCKWOOD_AMPLIFIED_IN_LUNG_CANCER
22	-6.71	NULL	32 / 253	BP translation
23	-6.7	NULL	11 / 63	BP DNA damage response, signal transduction by p53 class mediator
24	-6.61	NULL	5 / 16	GSEA C2SHIPP_DLCL_VS_FOLLICULAR_LYMPHOMA_UP
25	-6.34	NULL	56 / 649	BP gene expression
26	-6.32	NULL	2 / 10	BP creatine metabolic process
27	-6.31	NULL	3 / 11	GSEA C2BIOCARTA_ETC_PATHWAY
28	-6.25	NULL	20 / 96	BP rRNA processing
29	-6.23	NULL	11 / 70	BP antigen processing and presentation of exogenous peptide antigen
30	-6.17	NULL	5 / 17	CC proteasome core complex
31	-6.15	NULL	18 / 167	BP cellular nitrogen compound metabolic process
32	-6.1	NULL	69 / 949	CC nucleoplasm
33	-6.06	NULL	22 / 167	CC ribosome
34	-6.05	NULL	6 / 25	BP proteolysis involved in cellular protein catabolic process
35	-6.04	NULL	3 / 10	GSEA C2HOFMANN_MYELODYSPLASTIC_SYNDROM_LOW_RISK_DN
36	-6.01	NULL	5 / 27	MF four-way junction helicase activity
37	-5.99	NULL	11 / 74	BP antigen processing and presentation of exogenous peptide antigen
38	-5.97	NULL	15 / 96	BP DNA recombination
39	-5.97	NULL	3 / 8	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_25
40	-5.96	NULL	5 / 10	GSEA C2REACTOME_HIV_LIFE_CYCLE

p-values



GW_079

Local Summary

%DE = 0.68
 # metagenes = 48
 # genes = 520
 # genes in genesets = 517

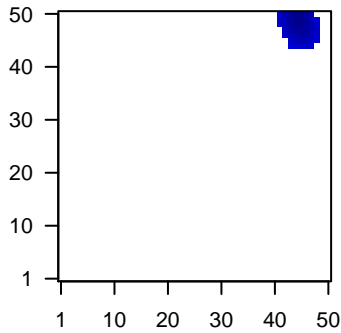
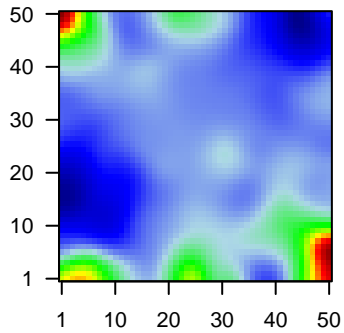
genes with $fdr < 0.1 = 220$ (4 + / 216 -)
 # genes with $fdr < 0.05 = 171$ (1 + / 170 -)
 # genes with $fdr < 0.01 = 101$ (0 + / 101 -)

$\langle r \rangle$ metagenes = 0.89
 $\langle r \rangle$ genes = 0.32

$\langle FC \rangle = -0.26$
 $\langle \text{shrinkage-t} \rangle = -9.01$
 $\langle p\text{-value} \rangle = 0.02$
 $\langle fdr \rangle = 0.64$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	51659	-1.12	7e-16	1e-12	44 x 50 GINS complex subunit 2 (Psf2 homolog) [Source:HGNC Sym
2	4171	-1.08	8e-15	8e-08	46 x 48 minichromosome maintenance complex component 2 [Source
3	79682	-0.86	5e-10	2e-07	46 x 47 centromere protein U [Source:HGNC Symbol;Acc:21348]
4	9319	-0.82	3e-09	2e-07	43 x 50 thyroid hormone receptor interactor 13 [Source:HGNC Symb
5	9212	-0.82	4e-09	2e-07	45 x 48 aurora kinase B [Source:HGNC Symbol;Acc:11390]
6	113130	-0.81	5e-09	2e-07	44 x 49 cell division cycle associated 5 [Source:HGNC Symbol;Acc:1
7	55872	-0.81	6e-09	4e-06	45 x 49 PDZ binding kinase [Source:HGNC Symbol;Acc:18282]
8	91057	-0.75	7e-08	4e-06	46 x 47 coiled-coil domain containing 34 [Source:HGNC Symbol;Acc
9	899	-0.74	9e-08	4e-06	45 x 46 cyclin F [Source:HGNC Symbol;Acc:1591]
10	9055	-0.74	9e-08	4e-06	45 x 49 protein regulator of cytokinesis 1 [Source:HGNC Symbol;Acc
11	89891	-0.74	1e-07	3e-05	46 x 45 WD repeat domain 34 [Source:HGNC Symbol;Acc:28296]
12	55355	-0.7	4e-07	3e-05	44 x 49 Holliday junction recognition protein [Source:HGNC Symbol;A
13	8364	-0.64	5e-07	4e-05	47 x 46 histone cluster 2, H4a [Source:HGNC Symbol;Acc:4794]
14	84823	-0.69	8e-07	4e-05	44 x 49 lamin B2 [Source:HGNC Symbol;Acc:6638]
15	124222	-0.68	1e-06	5e-05	45 x 46 progesterin and adipoQ receptor family member IV [Source:HG
16	10721	-0.67	1e-06	5e-05	46 x 48 polymerase (DNA directed), theta [Source:HGNC Symbol;Acc
17	22974	-0.67	2e-06	7e-05	44 x 50 TPX2, microtubule-associated [Source:HGNC Symbol;Acc:1
18	5050	-0.65	3e-06	7e-05	47 x 45 platelet-activating factor acetylhydrolase 1b, catalytic subunit
19	3978	-0.65	3e-06	7e-05	46 x 45 ligase I, DNA, ATP-dependent [Source:HGNC Symbol;Acc:6
20	55723	-0.65	3e-06	7e-05	46 x 47 anti-silencing function 1B histone chaperone [Source:HGNC

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-57.34	NULL	98 / 142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	-57.34	NULL	98 / 142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	-32.86	NULL	122 / 370	BP mitotic cell cycle
4	-28.88	NULL	26 / 57	Glio developing astrocytes
5	-28.42	NULL	16 / 16	GSEA C2EGUCHI_CELL_CYCLE_RB1_TARGETS
6	-28.4	NULL	117 / 530	Cancer Lembecke_Normal vs Adenoma
7	-27.26	NULL	55 / 149	BP DNA replication
8	-26.42	NULL	21 / 30	BP DNA strand elongation involved in DNA replication
9	-24.97	NULL	12 / 16	GSEA C2REACTOME_DNA_STRAND_ELONGATION
10	-24.83	NULL	14 / 16	GSEA C2FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL
11	-24.83	NULL	13 / 14	MMLL C2CIEJ_MMLL_4
12	-23.21	NULL	13 / 15	GSEA C2FINETTI_BREAST_CANCER_KINOME_RED
13	-22.9	NULL	11 / 16	GSEA C2FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_DN
14	-22.88	NULL	8 / 11	GSEA C2REACTOME_UNWINDING_OF_DNA
15	-22.06	NULL	9 / 11	GSEA C2KALMA_E2F1_TARGETS
16	-21.76	NULL	12 / 13	GSEA C2CROONQUIST_IL6_DEPRIVATION_DN
17	-21.63	NULL	61 / 232	BP mitosis
18	-21.06	NULL	11 / 15	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
19	-20.71	NULL	10 / 15	GSEA C2WU_APOPTOSIS_BY_CDKN1A_VIA_TP53
20	-20.45	NULL	12 / 15	GSEA C2CHANG_CYCLING_GENES
21	-20.37	NULL	12 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_2
22	-19.99	NULL	12 / 16	GSEA C2GRAHAM_NORMAL QUIESCENT_VS_NORMAL_DIVIDING_DN
23	-19.51	NULL	25 / 56	CC chromosome, centromeric region
24	-19.3	NULL	11 / 14	GSEA C2ZHAN_MULTIPLE_MYELOMA_PR_UP
25	-18.9	NULL	11 / 16	GSEA C2SONG_TARGETS_OF_IE86_CMV_PROTEIN
26	-18.84	NULL	14 / 22	BP DNA replication initiation
27	-18.81	NULL	8 / 16	GSEA C2CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP
28	-18.62	NULL	8 / 10	GSEA C2MONTERO_THYROID_CANCER_POOR_SURVIVAL_UP
29	-18.57	NULL	12 / 16	GSEA C2CROONQUIST_NRAS_SIGNALING_DN
30	-18.44	NULL	12 / 16	GSEA C2KANG_DOXORUBICIN_RESISTANCE_UP
31	-18.44	NULL	15 / 21	BP telomere maintenance via semi-conservative replication
32	-18.33	NULL	12 / 16	GSEA C2SCIAN_CELL_CYCLE_TARGETS_OF_TP53_AND_TP73_DN
33	-18.28	NULL	9 / 15	GSEA C2KEGG_DNA_REPLICATION
34	-18.18	NULL	11 / 16	GSEA C2REACTOME_ACTIVATION_OF_THE_PRE_REPLICATIVE_COMP
35	-18.17	NULL	136 / 949	CC nucleoplasm
36	-18.07	NULL	16 / 24	BP telomere maintenance via recombination
37	-18	NULL	11 / 14	GSEA C2ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
38	-18	NULL	11 / 16	GSEA C2REACTOME_G2_M_CHECKPOINTS
39	-17.93	NULL	10 / 15	GSEA C2LEE_EARLY_T_LYMPHOCYTE_UP
40	-17.84	NULL	13 / 18	BP spindle organization

p-values

