

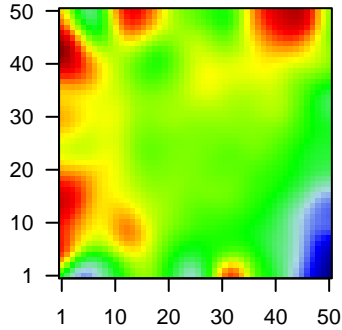
# GW\_086

## Global Summary

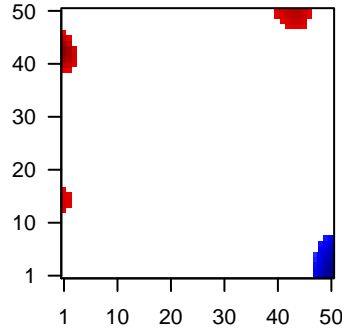
%DE = 0.14  
 # genes with fdr < 0.2 = 1767 ( 929 + / 838 - )  
 # genes with fdr < 0.1 = 1466 ( 779 + / 687 - )  
 # genes with fdr < 0.05 = 1118 ( 608 + / 510 - )  
 # genes with fdr < 0.01 = 794 ( 450 + / 344 - )  
 # genes in genesets = 16332

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

Profile



Regulated Spots



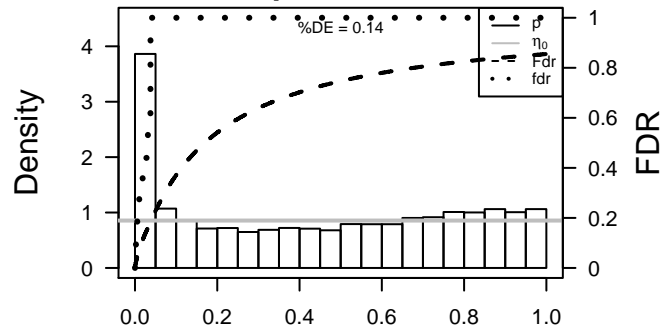
## Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	58	-1.44	2e-16	6e-14	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
2	131	-1.78	2e-16	6e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	113146	1.68	2e-16	6e-14	1 x 44 AHNAK nucleoprotein 2 [Source:HGNC Symbol;Acc:20125]
4	230	1.64	2e-16	6e-14	2 x 17 aldolase C, fructose-bisphosphate [Source:HGNC Symbol;A
5	144193	1.73	2e-16	6e-14	15 x 50 amidohydrolase domain containing 1 [Source:HGNC Symbol;
6	55107	1.63	2e-16	6e-14	1 x 5 anoctamin 1, calcium activated chloride channel [Source:HG
7	10409	-1.55	2e-16	6e-14	1 x 2 brain abundant, membrane attached signal protein 1 [Source:
8	64073	1.69	2e-16	6e-14	1 x 46 chromosome 19 open reading frame 33 [Source:HGNC Synt
9	339512	1.58	2e-16	6e-14	50 x 50 chromosome 1 open reading frame 110 [Source:HGNC Synt
10	79783	1.56	2e-16	6e-14	1 x 5 succinylCoA:glutarate-CoA transferase [Source:HGNC Synt
11	768	2.39	2e-16	6e-14	1 x 6 carbonic anhydrase IX [Source:HGNC Symbol;Acc:1383]
12	793	1.66	2e-16	6e-14	39 x 50 calbindin 1, 28kDa [Source:HGNC Symbol;Acc:1434]
13	6352	1.42	2e-16	6e-14	48 x 1 chemokine (C-C motif) ligand 5 [Source:HGNC Symbol;Acc:
14	1308	1.7	2e-16	6e-14	1 x 43 collagen, type XVII, alpha 1 [Source:HGNC Symbol;Acc:2194
15	1288	1.57	2e-16	6e-14	1 x 43 collagen, type IV, alpha 6 [Source:HGNC Symbol;Acc:2208]
16	49860	2.06	2e-16	6e-14	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
17	54541	1.4	2e-16	6e-14	1 x 4 DNA-damage-inducible transcript 4 [Source:HGNC Symbol;
18	2026	1.47	2e-16	6e-14	10 x 10 enolase 2 (gamma, neuronal) [Source:HGNC Symbol;Acc:33
19	2167	1.85	2e-16	6e-14	1 x 44 fatty acid binding protein 4, adipocyte [Source:HGNC Symbol
20	8772	1.42	2e-16	6e-14	1 x 14 Fas (TNFRSF6)-associated via death domain [Source:HGNC

## Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	15.77	NULL	519	Chr Chr 14
2	13.57	NULL	918	Chr Chr 17
3	11.12	NULL	142	Glio willscher_GBM_Verhaak-CL_expression_C_up
4	11.12	NULL	142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
5	10.83	NULL	370	BP mitotic cell cycle
6	9.15	NULL	13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
7	8.07	NULL	12	BP hemidesmosome assembly
8	7.97	NULL	135	H.Tiss WIRTH_Mucosa
9	7.6	NULL	572	Disease GUDJ_psooriasis_up
10	7.58	NULL	51	BP type I interferon signaling pathway
11	7.18	NULL	48	BP regulation of cellular amino acid metabolic process
12	7.16	NULL	74	BP anaphase-promoting complex-dependent proteasomal ubiquitin-
13	7.15	NULL	123	BP defense response to virus
14	7.15	NULL	148	BP G1/S transition of mitotic cell cycle
15	7.09	NULL	10	GSEA C2BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
16	7.08	NULL	949	CC nucleoplasm
17	6.7	NULL	70	BP antigen processing and presentation of exogenous peptide antigen
18	6.64	NULL	866	Chr Chr 12
19	6.55	NULL	16	GSEA C2JROSEVIC_RESPONSE_TO_IMIQUIMOD
20	6.5	NULL	66	BP positive regulation of ubiquitin-protein ligase activity involved in mi
<i>Underexpressed</i>				
1	-13.93	NULL	618	Chr Chr 4
2	-11.44	NULL	553	Cancer Lembecke_Colonc Inflammation
3	-8.08	NULL	417	H.Tiss WIRTH_Immune system
4	-7.06	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
5	-6.48	NULL	4	MMML C2SCIE_MMML 23
6	-6.33	NULL	250	LymphoENZ_Stromal signature 1
7	-6.12	NULL	280	Chr Chr 13
8	-5.84	NULL	127	H.Tiss WIRTH_Muscle
9	-5.74	NULL	162	CC external side of plasma membrane
10	-5.68	NULL	312	BP immune response
11	-5.67	NULL	16	H.Tiss WIRTH_Hippocampus
12	-5.57	NULL	7	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED
13	-5.5	NULL	92	BP translational elongation
14	-5.49	NULL	232	Chr Chr 18
15	-5.41	NULL	81	BP viral transcription
16	-5.12	NULL	87	BP translational termination
17	-5.11	NULL	269	BP inflammatory response
18	-5.08	NULL	11	GSEA C2KEGG_ARACHIDONIC_ACID_METABOLISM
19	-5.02	NULL	24	TF Tissue/AQUERIZAS_Trachea
20	-5.02	NULL	11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY

p-values



# GW\_086

## Local Summary

%DE = 0.5  
 # metagenes = 8  
 # genes = 132  
 # genes in genesets = 132  
 # genes with fdr < 0.1 = 49 ( 49 + / 0 - )  
 # genes with fdr < 0.05 = 35 ( 35 + / 0 - )  
 # genes with fdr < 0.01 = 24 ( 24 + / 0 - )

<r> metagenes = 0.98

<r> genes = 0.31

<FC> = 0.32

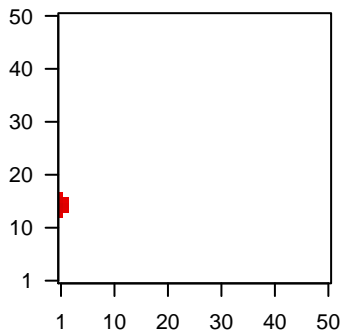
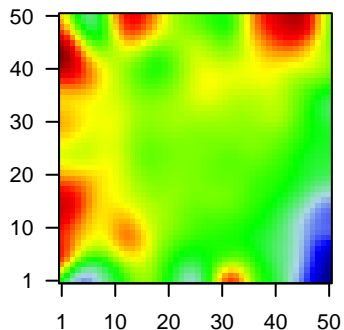
<shrinkage-t> = 11.15

<p-value> = 0.01

<fdr> = 0.64

Profile

Spot



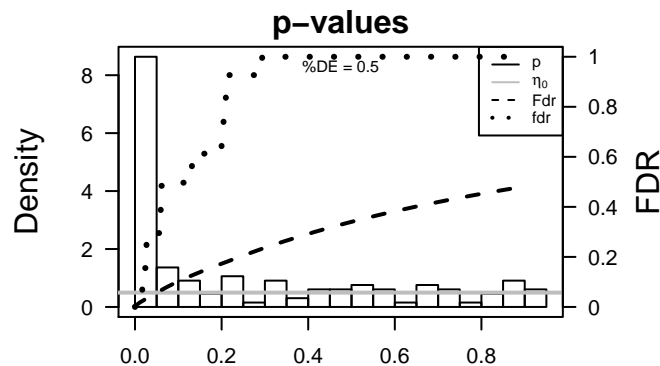
## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	8772	1.42	2e-16	1e-14	1 x 14 Fas (TNFRSF6)--associated via death domain [Source:HGNC
2	220064	1.22	3e-13	3e-11	1 x 14 oral cancer overexpressed 1 [Source:HGNC Symbol;Acc:175
3	2017	1.2	7e-13	4e-11	1 x 14 cortactin [Source:HGNC Symbol;Acc:3338]
4	131076	1.19	1e-12	8e-10	1 x 16 coiled-coil domain containing 58 [Source:HGNC Symbol;Acc
5	219927	1.13	1e-11	1e-09	1 x 15 mitochondrial ribosomal protein L21 [Source:HGNC Symbol;f
6	219931	1.11	4e-11	1e-08	1 x 14 two pore segment channel 2 [Source:HGNC Symbol;Acc:208
7	10428	1.06	2e-10	2e-07	1 x 15 craniofacial development protein 1 [Source:HGNC Symbol;Ac
8	51083	0.99	4e-09	2e-05	1 x 15 galanin/GMAP prepropeptide [Source:HGNC Symbol;Acc:41
9	991	0.82	1e-06	2e-05	1 x 16 cell division cycle 20 [Source:HGNC Symbol;Acc:1723]
10	10598	0.81	1e-06	2e-05	1 x 14 AHA1, activator of heat shock 90kDa protein ATPase homolo
11	51367	0.81	1e-06	2e-05	1 x 17 processing of precursor 5, ribonuclease P/MRP subunit (S. c
12	388581	0.81	1e-06	1e-04	1 x 15 family with sequence similarity 132, member A [Source:HGNC
13	5214	0.77	4e-06	1e-04	1 x 13 phosphofructokinase, platelet [Source:HGNC Symbol;Acc:88
14	23028	0.77	5e-06	3e-04	1 x 14 lysine (K)-specific demethylase 1A [Source:HGNC Symbol;A
15	1152	0.75	9e-06	4e-04	1 x 17 creatine kinase, brain [Source:HGNC Symbol;Acc:1991]
16	10419	0.73	1e-05	8e-04	1 x 17 protein arginine methyltransferase 5 [Source:HGNC Symbol;f
17	283869	0.71	3e-05	2e-03	1 x 17 neuropeptide W [Source:HGNC Symbol;Acc:30509]
18	79929	0.67	6e-05	2e-03	1 x 16 MAP6 domain containing 1 [Source:HGNC Symbol;Acc:2575
19	79080	0.66	8e-05	3e-03	1 x 14 coiled-coil domain containing 86 [Source:HGNC Symbol;Acc
20	55257	0.63	2e-04	3e-03	1 x 15 MRG/MORF4L binding protein [Source:HGNC Symbol;Acc:1

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	15.49	NULL	1 / 6	GSEA C2GALI_TP53_TARGETS_APOPTOTIC_DN
2	13.33	NULL	2 / 13	GSEA C2NADERI_BREAST_CANCER_PROGNOSIS_UP
3	12.46	NULL	2 / 18	BP smooth muscle contraction
4	12.3	NULL	1 / 9	GSEA C2BIOCARTA_RELA_PATHWAY
5	12.3	NULL	1 / 9	GSEA C2BIOCARTA_NFKB_PATHWAY
6	12.3	NULL	1 / 9	GSEA C2BIOCARTA_SODD_PATHWAY
7	12.3	NULL	1 / 9	GSEA C2REACTOME_DEATH_RECEPTOR_SIGNALLING
8	11.59	NULL	1 / 10	MF death receptor binding
9	11.59	NULL	1 / 10	BP positive regulation of macrophage differentiation
10	11.42	NULL	1 / 2	GSEA C2PELLICCIOтта_HDAC_IN_ANTIGEN_PRESENTATION_DN
11	11.42	NULL	1 / 2	GSEA C2REACTOME_DIABETES_PATHWAYS
12	11.36	NULL	2 / 10	GSEA C2ZHU_CMV_24_HR_UP
13	11.36	NULL	2 / 10	GSEA C2ZHU_CMV_ALL_UP
14	11.17	NULL	2 / 10	BP creatine metabolic process
15	10.98	NULL	1 / 11	BP regulation of extrinsic apoptotic signaling pathway in absence of lig
16	10.98	NULL	1 / 11	GSEA C2HOFMANN_CELL_LYMPHOMA_DN
17	10.98	NULL	1 / 11	GSEA C2ST_TUMOR_NECROSIS_FACTOR_PATHWAY
18	10.77	NULL	1 / 6	GSEA C2REACTOME_CLASS_A1_RHODOPSIN_LIKE_RECEPTORS
19	10.77	NULL	1 / 6	GSEA C2REACTOME_GPCR_LIGAND_BINDING
20	10.57	NULL	2 / 13	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_C
21	10.45	NULL	1 / 12	GSEA C2BIOCARTA_FAS_PATHWAY
22	9.99	NULL	1 / 13	BP lymph node development
23	9.99	NULL	1 / 13	GSEA C2BIOCARTA_TNFR1_PATHWAY
24	9.96	NULL	1 / 3	GSEA C2WEBER_METHYLATED_LCP_IN_SPERM_DN
25	9.86	NULL	2 / 9	GSEA C2KUMAMOTO_RESPONSE_TO_NUTLIN_3A_DN
26	9.85	NULL	1 / 7	GSEA C2CAFFAREL_RESPONSE_TO_THC_24HR_5_UP
27	9.85	NULL	1 / 7	GSEA C2REACTOME_PEPTIDE_LIGAND_BINDING_RECEPTORS
28	9.64	NULL	2 / 8	GSEA C2MUELLER_PLURINET
29	9.58	NULL	1 / 14	GSEA C2GENTILE_UV_RESPONSE_CLUSTER_D5
30	9.58	NULL	1 / 14	GSEA C2BIOCARTA_DEATH_PATHWAY
31	9.5	NULL	2 / 10	BP negative regulation of DNA damage response, signal transduction
32	9.22	NULL	1 / 15	BP positive regulation of extrinsic apoptotic signaling pathway via death
33	9.17	NULL	2 / 21	BP feeding behavior
34	9.13	NULL	1 / 8	GSEA C2SAMOLS_TARGETS_OF_KHSV_MIRNAS_UP
35	9.13	NULL	1 / 8	GSEA C2REACTOME_G_ALPHA_I_SIGNALLING_EVENTS
36	8.91	NULL	1 / 6	GSEA C2WAESCH_ANAPHASE_PROMOTING_COMPLEX
37	8.89	NULL	1 / 16	BP positive regulation of activated T cell proliferation
38	8.89	NULL	1 / 16	GSEA C2LAU_APOPTOSIS_CDKN2A_UP
39	8.89	NULL	1 / 16	GSEA C2BIOCARTA_CERAMIDE_PATHWAY
40	8.67	NULL	2 / 30	BP extrinsic apoptotic signaling pathway in absence of ligand

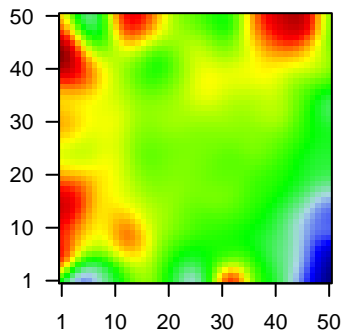


# GW\_086

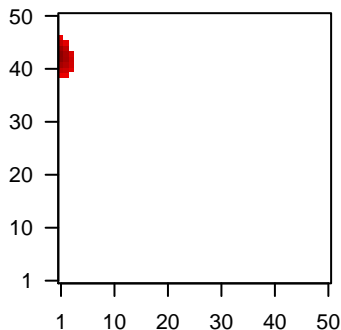
## Local Summary

%DE = 0.63  
 # metagenes = 19  
 # genes = 249  
 # genes in genesets = 246  
  
 # genes with  $fdr < 0.1 = 133$  ( 116 + / 17 - )  
 # genes with  $fdr < 0.05 = 123$  ( 108 + / 15 - )  
 # genes with  $fdr < 0.01 = 109$  ( 97 + / 12 - )  
  
 $\langle r \rangle$  metagenes = 0.96  
 $\langle r \rangle$  genes = 0.35  
  
 $\langle FC \rangle = 0.42$   
 $\langle \text{shrinkage-t} \rangle = 14.62$   
 $\langle p\text{-value} \rangle = 0$   
 $\langle fdr \rangle = 0.46$

Profile



Spot



## Local Genelist

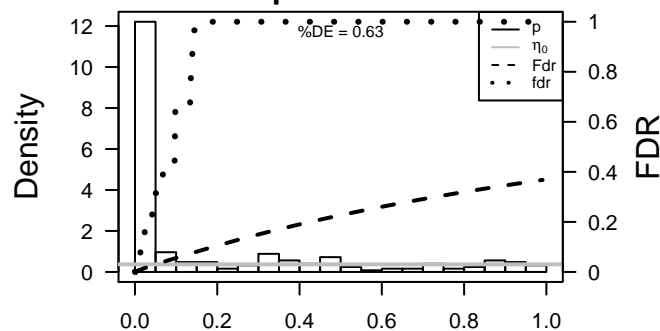
Rank	ID	log(FC)	fdr	p-value	Description
1	113146	1.68	2e-16	1e-15	1 x 44 AHNAK nucleoprotein 2 [Source:HGNC Symbol;Acc:20125]
2	64073	1.69	2e-16	1e-15	1 x 46 chromosome 19 open reading frame 33 [Source:HGNC Synt
3	1308	1.7	2e-16	1e-15	1 x 43 collagen, type XVII, alpha 1 [Source:HGNC Symbol;Acc:2194
4	1288	1.57	2e-16	1e-15	1 x 43 collagen, type IV, alpha 6 [Source:HGNC Symbol;Acc:2208]
5	2167	1.85	2e-16	1e-15	1 x 44 fatty acid binding protein 4, adipocyte [Source:HGNC Symbol
6	53836	1.38	2e-16	1e-15	2 x 42 G protein-coupled receptor 87 [Source:HGNC Symbol;Acc:4
7	3306	1.4	2e-16	1e-15	1 x 42 heat shock 70kDa protein 2 [Source:HGNC Symbol;Acc:5235
8	55214	1.83	2e-16	1e-15	1 x 42 leprecan-like 1 [Source:HGNC Symbol;Acc:19317]
9	4015	1.96	2e-16	1e-15	1 x 41 lysyl oxidase [Source:HGNC Symbol;Acc:6664]
10	4501	1.58	2e-16	1e-15	1 x 44 metallothionein 1X [Source:HGNC Symbol;Acc:7405]
11	56901	1.59	2e-16	1e-15	1 x 44 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-li
12	4747	1.73	2e-16	1e-15	1 x 43
13	4753	1.94	2e-16	1e-15	1 x 44 NEL-like 2 (chicken) [Source:HGNC Symbol;Acc:7751]
14	5744	2.49	2e-16	1e-15	1 x 43 parathyroid hormone-like hormone [Source:HGNC Symbol;A
15	5836	1.7	2e-16	1e-15	1 x 44 phosphorylase, glycogen, liver [Source:HGNC Symbol;Acc:9
16	780851	2.12	2e-16	1e-15	2 x 39 small nucleolar RNA, C/D box 3A [Source:HGNC Symbol;Acc
17	780853	2.14	2e-16	1e-15	2 x 39 small nucleolar RNA, C/D box 3C [Source:HGNC Symbol;Acc
18	780854	2.3	2e-16	1e-15	2 x 39 small nucleolar RNA, C/D box 3D [Source:HGNC Symbol;Acc
19	112399	1.32	3e-15	1e-13	1 x 40 egl-9 family hypoxia-inducible factor 3 [Source:HGNC Symb
20	3861	1.21	4e-15	1e-13	1 x 45 keratin 14 [Source:HGNC Symbol;Acc:6416]

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	18.85	NULL	7 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
2	17.09	NULL	5 / 12	BP hemidesmosome assembly
3	12.83	NULL	12 / 76	BP epidermis development
4	12.19	NULL	20 / 135	H.Tiss WIRTH_Mucosa
5	11.83	NULL	4 / 16	GSEA C2ELVIDGE_HIF1A_TARGETS_DN
6	11.56	NULL	4 / 13	BP intermediate filament cytoskeleton organization
7	11.55	NULL	1 / 7	GSEA C2BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_AND_PAX3
8	11.06	NULL	1 / 5	GSEA C2ELVIDGE_HIF2A_TARGETS_UP
9	10.89	NULL	4 / 16	GSEA C2ELVIDGE_HIF1A_AND_HIF2A_TARGETS_DN
10	10.42	NULL	2 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP
11	10.01	NULL	14 / 82	CC intermediate filament
12	9.88	NULL	2 / 11	GSEA C2BIOCARTA_VITCB_PATHWAY
13	9.54	NULL	2 / 16	Glio VERHAAK_MES subtype
14	9.42	NULL	2 / 8	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_UP
15	9.4	NULL	1 / 10	BP surfactant homeostasis
16	9.11	NULL	2 / 11	BP response to metal ion
17	9.03	NULL	2 / 15	GSEA C2KANG_CISPLATIN_RESISTANCE_UP
18	8.93	NULL	2 / 12	MF fatty acid binding
19	8.82	NULL	3 / 15	GSEA C2PRAMOONJAGO_SOX4_TARGETS_UP
20	8.75	NULL	2 / 10	BP skeletal muscle tissue regeneration
21	8.69	NULL	3 / 38	BP epithelial cell differentiation
22	8.37	NULL	2 / 15	GSEA C2NGUYEN_NOTCH1_TARGETS_UP
23	8.29	NULL	2 / 19	MF L-ascorbic acid binding
24	8.23	NULL	9 / 44	BP skin development
25	8.14	NULL	2 / 10	GSEA C2NIELSEN_MALIGNANT_FIBROUS_HISTIOCYTOMA_UP
26	8.09	NULL	1 / 13	H.Tiss WIRTH_Thalamus
27	7.94	NULL	3 / 16	GSEA C2ELVIDGE_HYPOXIA_BY_DMOG_UP
28	7.84	NULL	1 / 7	GSEA C2BIOCARTA_FEEDER_PATHWAY
29	7.83	NULL	2 / 8	GSEA C2LIU_CDX2_TARGETS_DN
30	7.78	NULL	6 / 83	CC basement membrane
31	7.75	NULL	1 / 14	BP negative regulation of chondrocyte differentiation
32	7.71	NULL	10 / 82	MF structural constituent of cytoskeleton
33	7.38	NULL	2 / 15	GSEA C2AMIT_EGF_RESPONSE_240_MCF10A
34	7.38	NULL	6 / 70	BP cell junction assembly
35	7.34	NULL	1 / 5	GSEA C2BUSA_SAM68_TARGETS_UP
36	7.31	NULL	2 / 26	BP positive regulation of cAMP biosynthetic process
37	7.29	NULL	2 / 15	BP response to osmotic stress
38	7.27	NULL	1 / 10	GSEA C2KIM_MYCL1_AMPLIFICATION_TARGETS_UP
39	7.25	NULL	3 / 12	CC fascia adherens
40	7.25	NULL	2 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN

p-values



# GW\_086

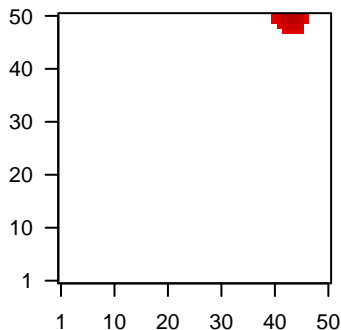
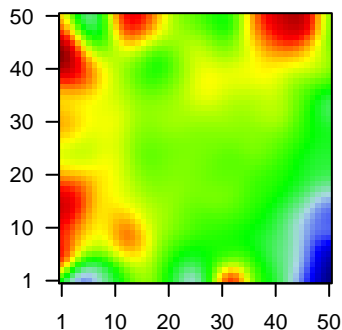
## Local Summary

%DE = 0.63  
 # metagenes = 23  
 # genes = 334  
 # genes in genesets = 331  
 # genes with  $fdr < 0.1$  = 144 ( 138 + / 6 - )  
 # genes with  $fdr < 0.05$  = 108 ( 106 + / 2 - )  
 # genes with  $fdr < 0.01$  = 63 ( 63 + / 0 - )

$\langle r \rangle$  metagenes = 0.95  
 $\langle r \rangle$  genes = 0.38  
 $\langle FC \rangle = 0.3$   
 $\langle \text{shrinkage-t} \rangle = 10.55$   
 $\langle p\text{-value} \rangle = 0.01$   
 $\langle fdr \rangle = 0.63$

Profile

Spot



## Local Genelist

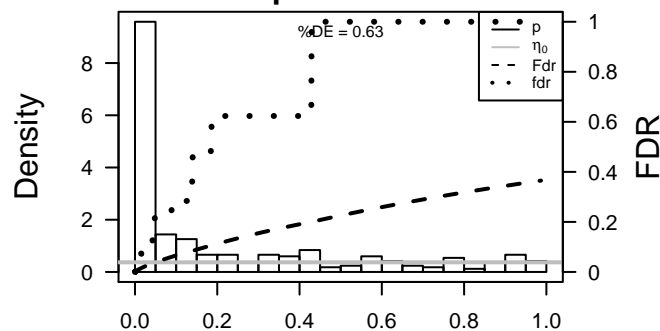
Rank	ID	log(FC)	fdr	p-value	Description
1	7083	1.28	3e-14	2e-11	45 x 49 thymidine kinase 1, soluble [Source:HGNC Symbol;Acc:1183]
2	6596	1.23	3e-13	2e-11	46 x 50 helicase-like transcription factor [Source:HGNC Symbol;Acc:
3	8500	1.22	4e-13	2e-10	42 x 50 protein tyrosine phosphatase, receptor type, f polypeptide (P1
4	51122	1.18	2e-12	2e-10	42 x 50 COMM domain containing 2 [Source:HGNC Symbol;Acc:249]
5	23212	1.17	3e-12	3e-10	40 x 50 RRS1 ribosome biogenesis regulator homolog (S. cerevisiae)
6	51659	1.16	5e-12	3e-09	44 x 50 GINS complex subunit 2 (Psf2 homolog) [Source:HGNC Sym
7	10403	1.12	3e-11	8e-09	44 x 50 NDC80 kinetochore complex component [Source:HGNC Sym
8	5984	1.09	9e-11	1e-07	46 x 50 replication factor C (activator 1) 4, 37kDa [Source:HGNC Syr
9	116832	1.02	1e-09	2e-07	46 x 50 ribosomal protein L39-like [Source:HGNC Symbol;Acc:17094
10	4173	1	2e-09	6e-07	44 x 50 minichromosome maintenance complex component 4 [Source
11	54443	0.96	9e-09	6e-07	43 x 50 anillin, actin binding protein [Source:HGNC Symbol;Acc:1408
12	55689	0.96	1e-08	1e-06	46 x 50 YEATS domain containing 2 [Source:HGNC Symbol;Acc:254
13	9650	0.94	2e-08	8e-06	40 x 50 mitochondrial fission regulator 1 [Source:HGNC Symbol;Acc:
14	3992	0.89	1e-07	8e-06	45 x 50 fatty acid desaturase 1 [Source:HGNC Symbol;Acc:3574]
15	6790	0.88	1e-07	3e-05	44 x 50 aurora kinase A [Source:HGNC Symbol;Acc:11393]
16	9787	0.85	4e-07	2e-04	43 x 50 discs, large (Drosophila) homolog-associated protein 5 [Sour
17	55157	0.8	2e-06	2e-04	43 x 50 aspartyl-tRNA synthetase 2, mitochondrial [Source:HGNC S
18	86	0.76	5e-06	2e-04	46 x 50 actin-like 6A [Source:HGNC Symbol;Acc:24124]
19	3838	0.76	6e-06	2e-04	43 x 50 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) [Source
20	3833	0.75	8e-06	2e-04	45 x 48 kinesin family member C1 [Source:HGNC Symbol;Acc:6389]

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	39.57	NULL	80 / 142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	39.57	NULL	80 / 142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	22.3	NULL	85 / 370	BP mitotic cell cycle
4	21.97	NULL	13 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_2
5	20.56	NULL	10 / 13	GSEA C2CROONQUIST_IL6_DEPRIVATION_DN
6	20.53	NULL	9 / 15	GSEA C2SMID_BREAST_CANCER_LUMINAL_A_DN
7	17.79	NULL	10 / 14	GSEA C2ZHAN_MULTIPLE_MYELOMA_PR_UP
8	17.2	NULL	12 / 18	BP spindle organization
9	17.06	NULL	9 / 30	BP DNA strand elongation involved in DNA replication
10	17.02	NULL	8 / 16	GSEA C2GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_DN
11	16.73	NULL	82 / 530	Cancer Lembcke_Normal vs Adenoma
12	16.32	NULL	8 / 10	GSEA C2MONTERO_THYROID_CANCER_POOR_SURVIVAL_UP
13	16.22	NULL	6 / 16	GSEA C2REACTOME_DNA_STRAND_ELONGATION
14	16.1	NULL	10 / 16	GSEA C2EGUCHI_CELL_CYCLE_RB1_TARGETS
15	15.96	NULL	27 / 149	BP DNA replication
16	15.87	NULL	15 / 16	GSEA C2FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL
17	15.59	NULL	14 / 15	GSEA C2FINETTI_BREAST_CANCER_KINOME_RED
18	15.41	NULL	9 / 16	GSEA C2CROONQUIST_NRAS_SIGNALING_DN
19	15.36	NULL	9 / 15	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_DN
20	15.23	NULL	6 / 15	GSEA C2TANG_SENESCENCE_TP53_TARGETS_DN
21	14.87	NULL	5 / 9	GSEA C2BIOCARTA_RANMS_PATHWAY
22	14.81	NULL	44 / 232	BP mitosis
23	14.58	NULL	6 / 14	GSEA C2MISSIAGLIA_REGULATED_BY_METHYLATION_DN
24	13.76	NULL	6 / 13	GSEA C2REN_BOUND_BY_E2F
25	13.47	NULL	9 / 16	GSEA C2KANG_DOXORUBICIN_RESISTANCE_UP
26	13.44	NULL	20 / 57	Glio developing astrocytes
27	13.3	NULL	7 / 21	BP telomere maintenance via semi-conservative replication
28	13.21	NULL	3 / 11	GSEA C2REACTOME_UNWINDING_OF_DNA
29	13.02	NULL	5 / 16	GSEA C2CROONQUIST_NRAS_VS_STROMAL_STIMULATION_DN
30	12.98	NULL	8 / 14	GSEA C2ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
31	12.95	NULL	89 / 949	CC nucleoplasm
32	12.79	NULL	6 / 16	GSEA C2REACTOME_LAGGING_STRAND_SYNTHESIS
33	12.74	NULL	30 / 148	BP G1/S transition of mitotic cell cycle
34	12.56	NULL	4 / 12	GSEA C2SHEPARD_BMYB_TARGETS
35	12.55	NULL	63 / 572	Disease GUDJ_psooriasis_up
36	12.53	NULL	15 / 68	Cancer SHAUGHNESSY_MM_high_risk
37	12.43	NULL	8 / 11	BP mitotic metaphase plate congression
38	12.35	NULL	7 / 24	BP telomere maintenance via recombination
39	12.23	NULL	11 / 15	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
40	12.01	NULL	5 / 16	GSEA C2FRASOR_RESPONSE_TO_SERM_OR_FULVESTANT_DN

p-values



# GW\_086

## Local Summary

%DE = 0.88  
 # metagenes = 28  
 # genes = 425  
 # genes in genesets = 423  
  
 # genes with  $fdr < 0.1$  = 362 ( 16 + / 346 - )  
 # genes with  $fdr < 0.05$  = 296 ( 10 + / 286 - )  
 # genes with  $fdr < 0.01$  = 217 ( 9 + / 208 - )  
  
 $\langle r \rangle$  metagenes = 0.93  
 $\langle r \rangle$  genes = 0.45  
  
 $\langle FC \rangle = -0.45$   
 $\langle \text{shrinkage-t} \rangle = -15.76$   
 $\langle p\text{-value} \rangle = 0$   
 $\langle fdr \rangle = 0.4$

## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	6352	1.42	2e-16	2e-15	48 x 1 chemokine (C-C motif) ligand 5 [Source:HGNC Symbol;Acc:...
2	3512	-1.47	2e-16	2e-15	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglobu
3	3543	-1.46	2e-16	2e-15	49 x 1 immunoglobulin lambda-like polypeptide 1 [Source:HGNC Sy
4	10365	-1.45	2e-16	2e-15	50 x 3 Kruppel-like factor 2 [Source:HGNC Symbol;Acc:6347]
5	6451	-1.42	2e-16	2e-15	50 x 5 SH3 domain binding glutamic acid-rich protein like [Source:H
6	57172	-1.3	9e-15	9e-13	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
7	397	-1.26	3e-14	1e-11	50 x 1 Rho GDP dissociation inhibitor (GDI) beta [Source:HGNC Sy
8	894	-1.23	3e-13	1e-11	50 x 4 cyclin D2 [Source:HGNC Symbol;Acc:1583]
9	54855	-1.22	4e-13	2e-10	49 x 1 family with sequence similarity 46, member C [Source:HGNC
10	29103	-1.15	6e-12	2e-10	48 x 6 DnaJ (Hsp40) homolog, subfamily C, member 15 [Source:HG
11	25849	-1.14	1e-11	2e-10	50 x 2 prostate androgen-regulated mucin-like protein 1 [Source:H
12	91607	1.14	1e-11	4e-10	48 x 4 schlafen family member 11 [Source:HGNC Symbol;Acc:2663:
13	83641	-1.13	2e-11	4e-10	50 x 1 family with sequence similarity 107, member B [Source:HGNC
14	241	-1.12	2e-11	4e-10	50 x 1 arachidonate 5-lipoxygenase-activating protein [Source:HGNC
15	347	-1.11	4e-11	4e-10	50 x 7 apolipoprotein D [Source:HGNC Symbol;Acc:612]
16	3059	-1.11	4e-11	3e-09	50 x 1 hematopoietic cell-specific Lyn substrate 1 [Source:HGNC S
17	4256	-1.08	1e-10	3e-09	50 x 6 matrix Gla protein [Source:HGNC Symbol;Acc:7060]
18	9806	-1.07	2e-10	3e-09	50 x 1 spar/osteonectin, cwcv and kazal-like domains proteoglycar
19	5730	-1.06	2e-10	3e-09	50 x 1 prostaglandin D2 synthase 21kDa (brain) [Source:HGNC Syn
20	260436	-1.05	3e-10	3e-09	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc

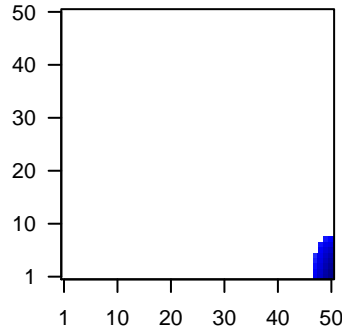
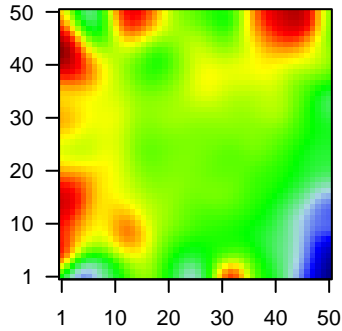
## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-22.28	NULL	95 / 417	H.Tiss WIRTH_Immune system
2	-21.88	NULL	119 / 553	Cancer Lembocke_Colonc Inflammation
3	-15.7	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
4	-15.37	NULL	7 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HG
5	-13.44	NULL	6 / 15	GSEA C2FINAK_BREAST_CANCER_SDPD_SIGNATURE
6	-12.59	NULL	54 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
7	-12.59	NULL	54 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
8	-12.59	NULL	54 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
9	-12.59	NULL	54 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
10	-12.09	NULL	58 / 312	BP immune response
11	-11.75	NULL	6 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
12	-11.65	NULL	3 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
13	-11.64	NULL	4 / 16	GSEA C2KORKOLA_TERATOMA_UP
14	-11.3	NULL	4 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN
15	-10.84	NULL	19 / 74	BP regulation of immune response
16	-10.8	NULL	5 / 9	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_DN
17	-10.78	NULL	4 / 7	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAIN
18	-10.72	NULL	5 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS
19	-10.06	NULL	5 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
20	-9.99	NULL	5 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
21	-9.91	NULL	6 / 15	Cancer GENTLES_modul13
22	-9.9	NULL	34 / 316	Cancer SPANG_BCL6-index2
23	-9.89	NULL	6 / 16	LymphomaWRIGHT_ABC UP
24	-9.81	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
25	-9.8	NULL	4 / 10	GSEA C2FERRANDO_LYL1_NEIGHBORS
26	-9.72	NULL	4 / 7	Glio Donson-cytotoxic effectors-associated with LTS in HGA
27	-9.63	NULL	7 / 12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN
28	-9.42	NULL	5 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
29	-9.26	NULL	5 / 14	BP ruffle organization
30	-9.26	NULL	29 / 162	CC external side of plasma membrane
31	-9.2	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
32	-9.18	NULL	6 / 15	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_GRANULO
33	-9.12	NULL	12 / 15	CC MHC class II protein complex
34	-9.02	NULL	4 / 16	GSEA C2CASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_UP
35	-9	NULL	5 / 9	GSEA C2GUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_1_D
36	-8.92	NULL	2 / 7	Cancer ZHANG_MGUS up
37	-8.85	NULL	5 / 13	GSEA C2BIOCARTA_IL17_PATHWAY
38	-8.83	NULL	8 / 16	GSEA C2SU_THYMUS
39	-8.82	NULL	5 / 12	GSEA C2BERTUCCI_INVASIVE_CARCINOMA_DUCTAL_VS_LOBULAR_D
40	-8.79	NULL	14 / 60	BP T cell costimulation

Profile

Spot



p-values

