

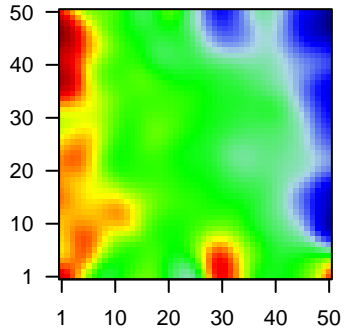
# GW\_044

## Global Summary

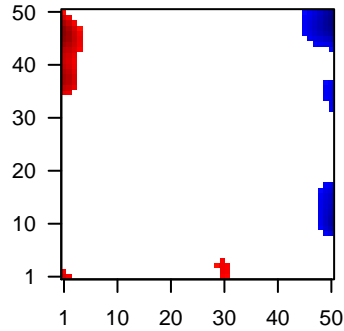
%DE = 0.13  
 # genes with fdr < 0.2 = 1640 ( 956 + / 684 - )  
 # genes with fdr < 0.1 = 1148 ( 710 + / 438 - )  
 # genes with fdr < 0.05 = 1003 ( 629 + / 374 - )  
 # genes with fdr < 0.01 = 681 ( 448 + / 233 - )  
 # genes in genesets = 16332

<FC> = 0  
 <shrinkage-t> = 0  
 <p-value> = 0.13  
 <fdr> = 0.87

Profile



Regulated Spots



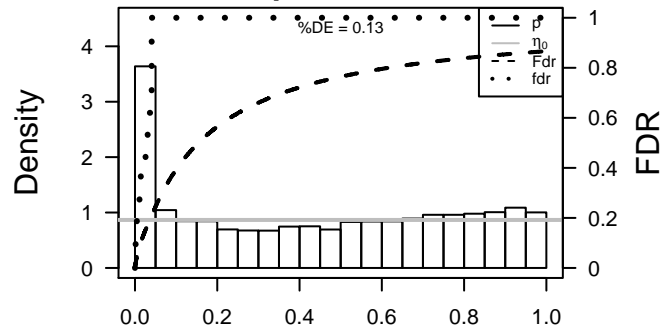
## Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	131	-2.09	2e-16	5e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
2	216	-1.47	2e-16	5e-14	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC]
3	218	-2.73	2e-16	5e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC]
4	241	1.41	2e-16	5e-14	50 x 1 arachidonate 5-lipoxygenase-activating protein [Source:HGNC]
5	341	2.07	2e-16	5e-14	50 x 1 apolipoprotein C-I [Source:HGNC Symbol;Acc:607]
6	348	2.1	2e-16	5e-14	50 x 1 apolipoprotein E [Source:HGNC Symbol;Acc:613]
7	366	1.81	2e-16	5e-14	1 x 1 aquaporin 9 [Source:HGNC Symbol;Acc:643]
8	10974	-1.86	2e-16	5e-14	5 x 50 adipogenesis regulatory factor [Source:HGNC Symbol;Acc:24152]
9	199675	1.4	2e-16	5e-14	5 x 4 chromosome 19 open reading frame 59 [Source:HGNC Synt]
10	713	2.38	2e-16	5e-14	50 x 1 complement component 1, q subcomponent, B chain [Source:HGNC]
11	714	2.03	2e-16	5e-14	50 x 1 complement component 1, q subcomponent, C chain [Source:HGNC]
12	6362	1.39	2e-16	5e-14	48 x 5 chemokine (C-C motif) ligand 18 (pulmonary and activation-inducible)
13	6348	1.41	2e-16	5e-14	4 x 4 chemokine (C-C motif) ligand 3 [Source:HGNC Symbol;Acc:6348]
14	414062	2	2e-16	5e-14	1 x 1 chemokine (C-C motif) ligand 3-like 3 [Source:HGNC Symbol;Acc:414062]
15	929	1.45	2e-16	5e-14	50 x 3 CD14 molecule [Source:HGNC Symbol;Acc:1628]
16	9332	1.6	2e-16	5e-14	50 x 4 CD163 molecule [Source:HGNC Symbol;Acc:1631]
17	81037	1.42	2e-16	5e-14	1 x 14 CLPTM1-like [Source:HGNC Symbol;Acc:24308]
18	1436	1.46	2e-16	5e-14	50 x 1 colony stimulating factor 1 receptor [Source:HGNC Symbol;Acc:1436]
19	1441	1.51	2e-16	5e-14	5 x 4 colony stimulating factor 3 receptor (granulocyte) [Source:HGNC]
20	441520	1.63	2e-16	5e-14	14 x 11 cancer/testis antigen family 45, member A2 [Source:HGNC S]

## Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	16.12	NULL	572	Disease GUDJ_psooriasis up
2	14.45	NULL	265	Glio willscher_GBM_Verhaak-CL_expression_B_up
3	14.45	NULL	265	Glio willscher_GBM_Verhaak-MES_expression_B_up
4	14.45	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
5	14.45	NULL	265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
6	12.96	NULL	135	H.Tiss WIRTH_Mucosa
7	11.09	NULL	269	BP inflammatory response
8	9.59	NULL	717	Chr Chr 16
9	9.39	NULL	312	BP immune response
10	9.23	NULL	4	GSEA C2REACTOME_CLASSICAL_ANTIBODY_MEDIATED_COMPLEXATION
11	9.15	NULL	553	Cancer Lembcke_Colonc Inflammation
12	9.09	NULL	111	BP chemotaxis
13	8.82	NULL	36	BP neutrophil chemotaxis
14	8.67	NULL	1135	Chr Chr 19
15	8.44	NULL	10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
16	8.32	NULL	11	GSEA C2APPEL_IMATINIB_RESPONSE
17	8.16	NULL	6	Glio Martinez_Glio_hypometh
18	8.12	NULL	13	MMLL C6SCIEJ_MMLL 6
19	8.04	NULL	2659	CC plasma membrane
20	8.03	NULL	7	GSEA C2BIOCARTA_COMP_PATHWAY
<i>Underexpressed</i>				
1	-8.65	NULL	633	Chr Chr 9
2	-7.62	NULL	519	Chr Chr 14
3	-7.38	NULL	370	BP mitotic cell cycle
4	-6.63	NULL	618	Chr Chr 4
5	-6.24	NULL	949	CC nucleoplasm
6	-6.12	NULL	714	Chr Chr 6
7	-6.01	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
8	-5.95	NULL	9	GSEA C2NIKOLSKY_BREAST_CANCER_17P11_AMPLICON
9	-5.66	NULL	375	Disease GUDJ_psooriasis down
10	-5.53	NULL	940	MF nucleic acid binding
11	-5.53	NULL	386	Chr Chr 22
12	-5.25	NULL	271	miRNA target star1349
13	-5.21	NULL	9	GSEA C2REACTOME_ETHANOL_OXIDATION
14	-5	NULL	148	BP G1/S transition of mitotic cell cycle
15	-4.93	NULL	229	BP RNA splicing
16	-4.89	NULL	649	BP gene expression
17	-4.86	NULL	310	miRNA target star1349
18	-4.85	NULL	6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_B_DN
19	-4.83	NULL	269	miRNA target star1349
20	-4.81	NULL	318	miRNA target star1349-3p

p-values



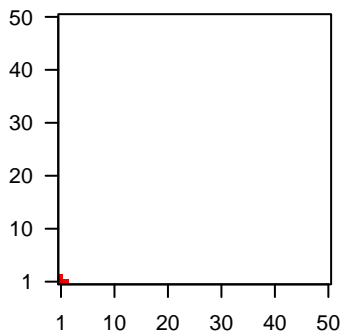
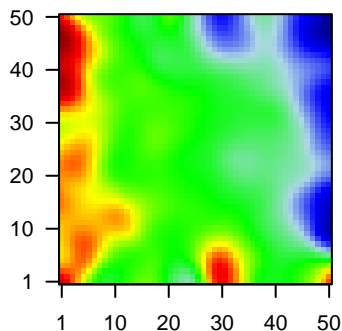
# GW\_044

## Local Summary

%DE = 0.6  
 # metagenes = 3  
 # genes = 75  
 # genes in genesets = 75  
 # genes with  $fdr < 0.1 = 34$  ( 29 + / 5 - )  
 # genes with  $fdr < 0.05 = 30$  ( 26 + / 4 - )  
 # genes with  $fdr < 0.01 = 27$  ( 24 + / 3 - )  
 <r> metagenes = 1  
 <r> genes = 0.46  
 <FC> = 0.4  
 <shrinkage-t> = 14.11  
 <p-value> = 0  
 <fdr> = 0.55

Profile

Spot



## Local Genelist

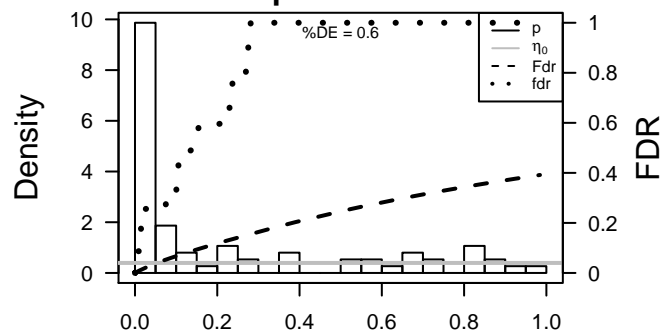
Rank	ID	log(FC)	fdr	p-value	Description
1	366	1.81	2e-16	8e-16	1 x 1 aquaporin 9 [Source:HGNC Symbol;Acc:643]
2	414062	2	2e-16	8e-16	1 x 1 chemokine (C-C motif) ligand 3-like 3 [Source:HGNC Symb
3	6372	2.39	2e-16	8e-16	1 x 1 chemokine (C-X-C motif) ligand 6 [Source:HGNC Symbol;Ac
4	3553	2.09	2e-16	8e-16	1 x 1 interleukin 1, beta [Source:HGNC Symbol;Acc:5992]
5	3576	1.53	2e-16	8e-16	1 x 1 interleukin 8 [Source:HGNC Symbol;Acc:6025]
6	4973	1.71	2e-16	8e-16	1 x 1 oxidized low density lipoprotein (lectin-like) receptor 1 [Sourc
7	5008	1.42	2e-16	8e-16	1 x 1 oncostatin M [Source:HGNC Symbol;Acc:8506]
8	6696	1.38	2e-16	8e-16	2 x 1 secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:1125]
9	6374	1.26	9e-14	2e-11	1 x 1 chemokine (C-X-C motif) ligand 5 [Source:HGNC Symbol;Ac
10	2919	1.21	8e-13	3e-11	1 x 1 chemokine (C-X-C motif) ligand 1 (melanoma growth stimule
11	4311	1.18	2e-12	3e-11	2 x 1 membrane metallo-endopeptidase [Source:HGNC Symbol;Av
12	12	1.18	3e-12	3e-09	1 x 1
13	60675	1.09	1e-10	1e-07	1 x 1 prokineticin 2 [Source:HGNC Symbol;Acc:18455]
14	5054	0.99	4e-09	1e-06	1 x 2 serpin peptidase inhibitor, clade E (nexin, plasminogen activa
15	2920	0.92	5e-08	8e-06	1 x 1 chemokine (C-X-C motif) ligand 2 [Source:HGNC Symbol;Ac
16	10409	0.85	5e-07	8e-06	1 x 2 brain abundant, membrane attached signal protein 1 [Source:
17	1514	0.84	6e-07	9e-06	1 x 2 cathepsin L [Source:HGNC Symbol;Acc:2537]
18	6999	0.83	9e-07	1e-05	1 x 2 tryptophan 2,3-dioxygenase [Source:HGNC Symbol;Acc:117
19	4318	0.81	1e-06	3e-05	1 x 1 matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 9:
20	7130	0.8	2e-06	3e-04	1 x 1 tumor necrosis factor, alpha-induced protein 6 [Source:HGN

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	37.06	NULL	2 / 6	GSEA C2SEIKE_LUNG_CANCER_POOR_SURVIVAL
2	28.4	NULL	1 / 4	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_DN
3	27.97	NULL	6 / 43	MF chemokine activity
4	26.01	NULL	1 / 3	GSEA C2REN_MIF_TARGETS_DN
5	25.02	NULL	2 / 6	GSEA C2BIOCARTA_IL5_PATHWAY
6	23.94	NULL	2 / 6	Glio Martinez_Glio_hypometh
7	23.78	NULL	3 / 16	GSEA C2MAHADEVAN_RESPONSE_TO_MP470_UP
8	20.14	NULL	2 / 16	GSEA C2GRAHAM_CML_QUIESCENT_VS_CML_DIVIDING_UP
9	19.7	NULL	1 / 5	GSEA C2SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_D
10	19.36	NULL	3 / 14	GSEA C2WANG_ESOPHAGUS_CANCER_VS_NORMAL_UP
11	19.29	NULL	8 / 111	BP chemotaxis
12	19.25	NULL	2 / 9	GSEA C2HEDVAT_ELF4_TARGETS_UP
13	18.29	NULL	2 / 13	Glio Christensen_hypomethylated_in_grade2_oligodendrogloma
14	18.11	NULL	2 / 10	GSEA C2AJULA_IL22_AND_IL17A_SIGNALING
15	17.68	NULL	1 / 5	GSEA C2DEBOSSCHER_NFKB_TARGETS_REPRESSED_BY_GLUCCO
16	17.54	NULL	3 / 36	BP neutrophil chemotaxis
17	16.69	NULL	3 / 6	GSEA C2AGARWAL_AKT_PATHWAY_TARGETS
18	16.54	NULL	8 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
19	16.37	NULL	2 / 8	GSEA C2OSAWA_TNF_TARGETS
20	16.36	NULL	15 / 269	BP inflammatory response
21	15.89	NULL	6 / 11	MF platelet-derived growth factor binding
22	15.81	NULL	2 / 13	BP positive regulation of vascular endothelial growth factor receptor sig
23	15.64	NULL	12 / 312	BP immune response
24	15.6	NULL	1 / 6	GSEA C2MIZUKAMI_HYPOXIA_DN
25	15.6	NULL	1 / 6	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_UP
26	15.02	NULL	2 / 20	BP positive regulation of interleukin-8 production
27	14.81	NULL	2 / 9	GSEA C2ZERBINI_RESPONSE_TO_SULINDAC_UP
28	14.49	NULL	1 / 11	BP negative regulation of lipid catabolic process
29	14.49	NULL	1 / 11	GSEA C2LEI_MYB_TARGETS
30	14.08	NULL	1 / 7	GSEA C2BIOCARTA_FREE_PATHWAY
31	13.91	NULL	4 / 49	Glio Christensen_hypomethylated_in_primary_glioblastoma
32	13.86	NULL	29 / 553	Cancer Lembecke_Colonc Inflammation
33	13.74	NULL	1 / 12	BP positive regulation of histone acetylation
34	13.74	NULL	1 / 12	BP positive regulation of membrane protein ectodomain proteolysis
35	13.42	NULL	1 / 4	GSEA C2DACOSTA_LOW_DOSE_UV_RESPONSE_VIA_ERCC3_XPCS_D
36	13.29	NULL	1 / 10	GSEA C2THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_UP
37	13.14	NULL	5 / 36	BP embryo implantation
38	13.09	NULL	1 / 13	BP positive regulation of interleukin-2 biosynthetic process
39	13.09	NULL	1 / 13	BP positive regulation of protein export from nucleus
40	13.07	NULL	2 / 11	GSEA C2BIOCARTA_STEM_PATHWAY

p-values



# GW\_044

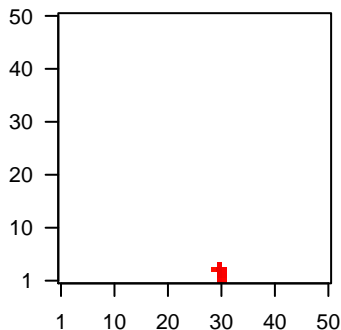
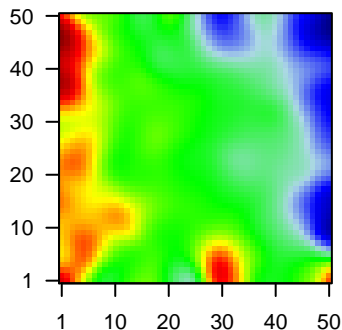
## Local Summary

%DE = 0.78  
 # metagenes = 8  
 # genes = 36  
 # genes in genesets = 36  
 # genes with  $fdr < 0.1 = 24$  ( 22 + / 2 - )  
 # genes with  $fdr < 0.05 = 23$  ( 21 + / 2 - )  
 # genes with  $fdr < 0.01 = 17$  ( 17 + / 0 - )

<r> metagenes = 0.97  
 <r> genes = 0.31  
 <FC> = 0.45  
 <shrinkage-t> = 15.73  
 <p-value> = 0  
 <fdr> = 0.37

Profile

Spot



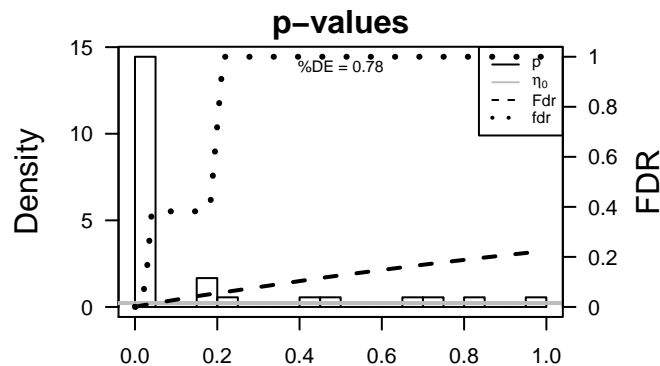
## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	79931	1.43	2e-16	2e-15	31 x 3 TNFAIP3 interacting protein 3 [Source:HGNC Symbol;Acc:19
2	712	1.13	2e-11	2e-08	30 x 2 complement component 1, q subcomponent, A chain [Source
3	6288	1.01	2e-09	2e-08	31 x 1 serum amyloid A1 [Source:HGNC Symbol;Acc:10513]
4	30817	0.98	5e-09	1e-06	30 x 4 egf-like module containing, mucin-like, hormone receptor-like
5	6507	0.88	2e-07	3e-06	30 x 4 solute carrier family 1 (glial high affinity glutamate transporter
6	50856	0.84	6e-07	1e-05	30 x 4 C-type lectin domain family 4, member A [Source:HGNC Syn
7	10288	0.8	2e-06	1e-04	30 x 4 leukocyte immunoglobulin-like receptor, subfamily B (with TV
8	3566	0.68	6e-05	1e-04	30 x 3 interleukin 4 receptor [Source:HGNC Symbol;Acc:6015]
9	341405	0.66	8e-05	1e-04	30 x 1 ankyrin repeat domain 33 [Source:HGNC Symbol;Acc:13788]
10	91107	0.66	8e-05	1e-04	31 x 3 tripartite motif containing 47 [Source:HGNC Symbol;Acc:190
11	53	0.66	9e-05	1e-04	30 x 2 acid phosphatase 2, lysosomal [Source:HGNC Symbol;Acc:1
12	822	0.65	1e-04	1e-04	30 x 2 capping protein (actin filament), gelsolin-like [Source:HGNC :
13	10261	0.65	1e-04	1e-04	30 x 4 immunoglobulin superfamily, member 6 [Source:HGNC Symb
14	27166	0.65	1e-04	1e-03	29 x 3 PRELI domain containing 1 [Source:HGNC Symbol;Acc:3025
15	717	0.61	3e-04	1e-03	30 x 2 complement component 2 [Source:HGNC Symbol;Acc:1248]
16	968	0.59	4e-04	1e-03	29 x 3 CD68 molecule [Source:HGNC Symbol;Acc:1693]
17	57817	0.59	5e-04	2e-03	30 x 4 hepcidin antimicrobial peptide [Source:HGNC Symbol;Acc:15
18	10318	0.57	7e-04	1e-02	30 x 3 TNFAIP3 interacting protein 1 [Source:HGNC Symbol;Acc:16
19	51246	0.5	3e-03	1e-02	30 x 1 shisa family member 5 [Source:HGNC Symbol;Acc:30376]
20	5872	0.48	4e-03	2e-02	29 x 3 RAB13, member RAS oncogene family [Source:HGNC Symb

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	32.43	NULL	1 / 4	GSEA C2REACTOME_CLASSICAL_ANTIBODY_MEDIATED_COMPLEMEN
2	31.65	NULL	2 / 7	GSEA C2BIOCARTA_COMP_PATHWAY
3	28.74	NULL	2 / 8	GSEA C2BIOCARTA_CLASSIC_PATHWAY
4	28.74	NULL	2 / 8	GSEA C2REACTOME_COMPLEMENT_CASCADE
5	28.74	NULL	2 / 8	GSEA C2REACTOME_INITIAL_TRIGGERING_OF_COMPLEMENT
6	17.62	NULL	1 / 4	MMML C06SCIEJ_MMML 2
7	16.89	NULL	3 / 22	BP complement activation, classical pathway
8	15.82	NULL	2 / 20	BP complement activation
9	15.23	NULL	3 / 30	BP negative regulation of I-kappaB kinase/NF-kappaB signaling
10	14.82	NULL	2 / 10	MF acid phosphatase activity
11	14.49	NULL	1 / 8	GSEA C2MCCABE_HOXC6_TARGETS_UP
12	13.73	NULL	1 / 6	GSEA C2ST_INTERLEUKIN_13_PATHWAY
13	13.73	NULL	1 / 6	GSEA C2ST_IL_13_PATHWAY
14	13.36	NULL	4 / 49	Glio Donson-innate immunity-associated with LTS in HGA
15	12.6	NULL	1 / 12	BP macrophage chemotaxis
16	12.52	NULL	2 / 15	GSEA C2ALK_AML_CLUSTER_4
17	12.4	NULL	1 / 10	MF L-glutamate transmembrane transporter activity
18	12.27	NULL	1 / 22	MF polyubiquitin binding
19	11.76	NULL	1 / 7	Glio wilscher_GBM_LTSmut_proteomics-P_DOWN
20	11.63	NULL	1 / 11	BP positive regulation of synaptic transmission
21	11.39	NULL	1 / 14	CC endocytic vesicle lumen
22	11.08	NULL	1 / 7	GSEA C2BIOCARTA_LLECTIN_PATHWAY
23	11.08	NULL	1 / 8	GSEA C2SASAKI_TARGETS_OF_TP73_AND_TP63
24	10.98	NULL	1 / 12	BP glutamate metabolic process
25	10.98	NULL	1 / 12	BP L-glutamate transport
26	10.98	NULL	1 / 12	Glio astrocytes_glio
27	10.9	NULL	1 / 15	CC high-density lipoprotein particle
28	10.67	NULL	1 / 8	GSEA C2HASLINGER_B_CLL_WITH_6Q21_DELETION
29	10.54	NULL	1 / 11	BP negative regulation of calcium ion transport
30	10.21	NULL	1 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
31	10.19	NULL	1 / 9	GSEA C2BALLIF_DEVELOPMENTAL_DISABILITY_P16_P12_DELETION
32	10.19	NULL	1 / 9	GSEA C2GUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_1_L
33	10.19	NULL	1 / 9	GSEA C2BIOCARTA_IL4_PATHWAY
34	10.18	NULL	1 / 20	LymphomBAVE_Immune response 2
35	10.05	NULL	1 / 8	GSEA C2KEGG_COMPLEMENT_AND_COAGULATION_CASCADES
36	9.94	NULL	1 / 12	MF MHC class I protein binding
37	9.93	NULL	1 / 14	BP response to light stimulus
38	9.48	NULL	1 / 10	GSEA C2LEE_EARLY_T_LYMPHOCYTE_DN
39	9.28	NULL	3 / 73	BP cellular response to lipopolysaccharide
40	9.25	NULL	1 / 9	GSEA C2ABE_VEGFA_TARGETS_30MIN



# GW\_044

## Local Summary

%DE = 0.64  
 # metagenes = 49  
 # genes = 598  
 # genes in genesets = 585

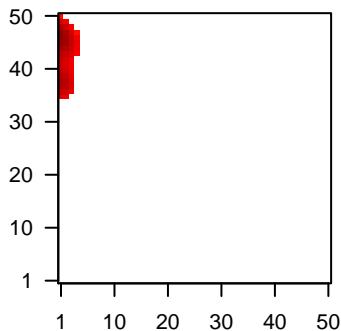
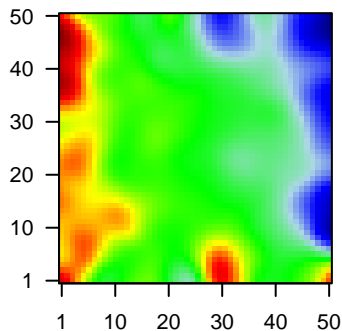
# genes with  $fdr < 0.1 = 287$  ( 223 + / 64 - )  
 # genes with  $fdr < 0.05 = 272$  ( 211 + / 61 - )  
 # genes with  $fdr < 0.01 = 204$  ( 161 + / 43 - )

$\langle r \rangle$  metagenes = 0.85  
 $\langle r \rangle$  genes = 0.29

$\langle FC \rangle = 0.25$   
 $\langle \text{shrinkage-t} \rangle = 8.73$   
 $\langle p\text{-value} \rangle = 0$   
 $\langle fdr \rangle = 0.53$

Profile

Spot



## Local Genelist

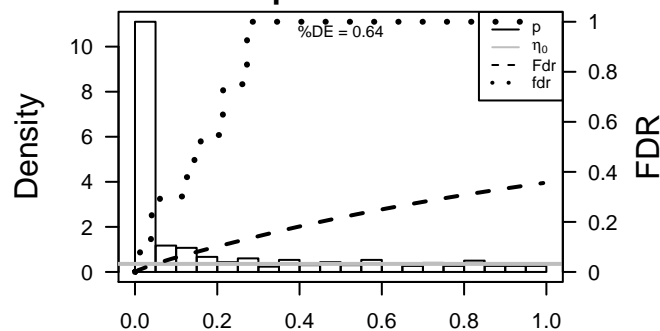
Rank	ID	log(FC)	fdr p-value	Description Metagene
1	131	-2.09	2e-16 2e-15	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
2	218	-2.73	2e-16 2e-15	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC]
3	1672	1.48	2e-16 2e-15	1 x 50 defensin, beta 1 [Source:HGNC Symbol;Acc:2766]
4	1673	2.54	2e-16 2e-15	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
5	2731	1.43	2e-16 2e-15	1 x 38 glycine dehydrogenase (decarboxylating) [Source:HGNC Syn]
6	3552	1.51	2e-16 2e-15	1 x 43 interleukin 1, alpha [Source:HGNC Symbol;Acc:5991]
7	26085	2.06	2e-16 2e-15	1 x 50 kallikrein-related peptidase 13 [Source:HGNC Symbol;Acc:6:
8	3868	1.38	2e-16 2e-15	1 x 46 keratin 16 [Source:HGNC Symbol;Acc:6423]
9	192666	-1.49	2e-16 2e-15	1 x 50 keratin 24 [Source:HGNC Symbol;Acc:18527]
10	286887	1.44	2e-16 2e-15	1 x 47 keratin 6C [Source:HGNC Symbol;Acc:20406]
11	9119	1.63	2e-16 2e-15	1 x 44 keratin 75 [Source:HGNC Symbol;Acc:24431]
12	56901	1.56	2e-16 2e-15	1 x 44 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-i
13	10158	1.84	2e-16 2e-15	1 x 47 PDZK1 interacting protein 1 [Source:HGNC Symbol;Acc:168:
14	5266	1.36	2e-16 2e-15	1 x 49 peptidase inhibitor 3, skin-derived [Source:HGNC Symbol;Ac
15	170680	1.67	2e-16 2e-15	1 x 35 psoriasis susceptibility 1 candidate 2 [Source:HGNC Symbol;
16	6278	1.98	2e-16 2e-15	1 x 49 S100 calcium binding protein A7 [Source:HGNC Symbol;Acc:
17	338324	2.88	2e-16 2e-15	1 x 48 S100 calcium binding protein A7A [Source:HGNC Symbol;Ac
18	6286	1.39	2e-16 2e-15	1 x 50 S100 calcium binding protein P [Source:HGNC Symbol;Acc:1
19	374897	1.43	2e-16 2e-15	1 x 49 suprabasin [Source:HGNC Symbol;Acc:24950]
20	6317	1.61	2e-16 2e-15	1 x 49 serpin peptidase inhibitor, clade B (ovalbumin), member 3 [Sc

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	25.99	NULL	89 / 135	H.Tiss WIRTH_Mucosa
2	23.48	NULL	149 / 572	Disease GUDJ_psooriasis up
3	14.66	NULL	3 / 15	GSEA C2P3YEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
4	13.45	NULL	34 / 76	BP epidermis development
5	13.09	NULL	8 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
6	10.88	NULL	5 / 10	MF RAGE receptor binding
7	10.54	NULL	6 / 15	GSEA C2FARMER_BREAST_CANCER_CLUSTER_3
8	10.22	NULL	10 / 52	BP negative regulation of endopeptidase activity
9	10.17	NULL	6 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_4
10	10.14	NULL	5 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_DN
11	10.09	NULL	4 / 11	GSEA C2LEI_MYB_TARGETS
12	9.78	NULL	7 / 29	BP regulation of proteolysis
13	9.5	NULL	18 / 21	CC cornified envelope
14	9.18	NULL	8 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
15	9.01	NULL	8 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATEL
16	8.94	NULL	3 / 10	GSEA C2AJJLA_IL22_AND_IL17A_SIGNALING
17	8.91	NULL	5 / 13	BP negative regulation of peptidase activity
18	8.67	NULL	7 / 15	GSEA C2AIGNER_ZEB1_TARGETS
19	8.65	NULL	3 / 13	GSEA C2FARMER_BREAST_CANCER_APOCRINE_VS_LUMINAL
20	8.08	NULL	11 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
21	8.05	NULL	6 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
22	7.77	NULL	7 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
23	7.58	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
24	7.15	NULL	1 / 2	MMML C2SCIEJ_MMML_43
25	7.08	NULL	2 / 8	GSEA C2MCLACHLAN_DENTAL_CARIES_UP
26	7.08	NULL	7 / 16	GSEA C2OLDREN_GEFITINIB_RESISTANCE_DN
27	6.98	NULL	5 / 15	GSEA C2LEE_LIVER_CANCER_DENA_UP
28	6.84	NULL	3 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
29	6.84	NULL	2 / 16	BP response to reactive oxygen species
30	6.84	NULL	4 / 15	GSEA C2JIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
31	6.81	NULL	5 / 16	GSEA C2LEE_LIVER_CANCER_ACOX1_UP
32	6.77	NULL	15 / 79	MF serine-type endopeptidase inhibitor activity
33	6.73	NULL	1 / 4	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_DN
34	6.63	NULL	2 / 9	GSEA C2MCLACHLAN_DENTAL_CARIES_DN
35	6.59	NULL	6 / 16	GSEA C2JAEGER_METASTASIS_DN
36	6.45	NULL	4 / 15	GSEA C2ONDER_CDH1_TARGETS_2_DN
37	6.38	NULL	3 / 11	GSEA C2STEIN_ESRRA_TARGETS_DN
38	6.34	NULL	3 / 15	GSEA C2JIANG_SILENCED_BY_METHYLATION_2
39	6.33	NULL	5 / 25	BP response to zinc ion
40	6.29	NULL	6 / 14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U

p-values



# GW\_044

## Local Summary

%DE = 0.65  
 # metagenes = 28  
 # genes = 338  
 # genes in genesets = 334

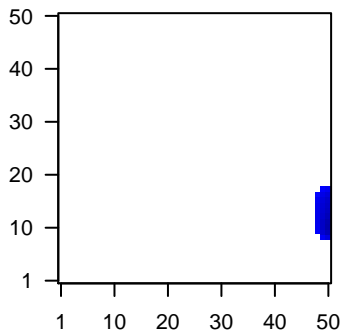
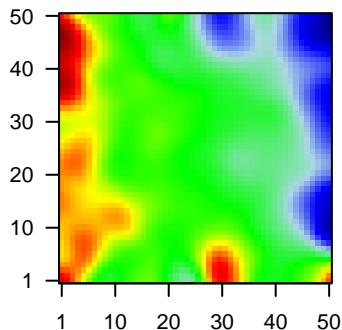
# genes with  $fdr < 0.1$  = 139 ( 19 + / 120 - )  
 # genes with  $fdr < 0.05$  = 119 ( 15 + / 104 - )  
 # genes with  $fdr < 0.01$  = 73 ( 11 + / 62 - )

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

<FC> = -0.25  
 <shrinkage-t> = -8.74  
 <p-value> = 0.01  
 <fdr> = 0.63

Profile

Spot



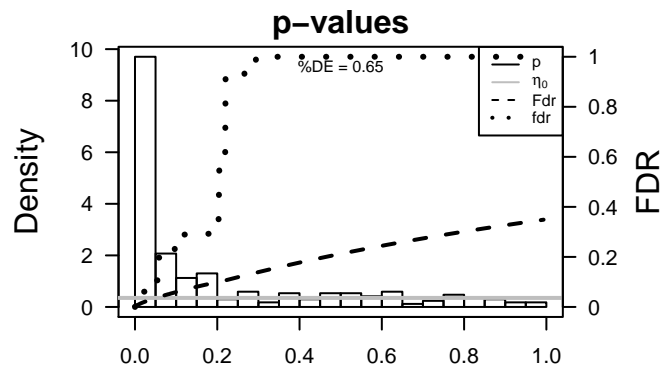
## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	7033	-1.43	2e-16	3e-14	50 x 10 trefoil factor 3 (intestinal) [Source:HGNC Symbol;Acc:11757]
2	260293	1.34	2e-15	2e-10	50 x 14 cytochrome P450, family 4, subfamily X, polypeptide 1 [Source:HGNC Symbol;Acc:11740]
3	92747	-1.18	2e-12	2e-10	50 x 10 BPI fold containing family B, member 1 [Source:HGNC Symbol;Acc:11740]
4	7018	-1.17	3e-12	6e-09	50 x 10 transferrin [Source:HGNC Symbol;Acc:11740]
5	1776	-1.1	6e-11	2e-08	48 x 12 deoxyribonuclease I-like 3 [Source:HGNC Symbol;Acc:2959]
6	79191	1.06	3e-10	2e-08	50 x 15 iroquois homeobox 3 [Source:HGNC Symbol;Acc:14360]
7	83988	-1.05	5e-10	2e-08	50 x 17 neurocalcin delta [Source:HGNC Symbol;Acc:7655]
8	54102	-1.05	6e-10	1e-07	50 x 10 chloride intracellular channel 6 [Source:HGNC Symbol;Acc:21740]
9	83699	-1.01	2e-09	1e-07	50 x 11 SH3 domain binding glutamic acid-rich protein like 2 [Source:HGNC Symbol;Acc:11740]
10	10439	-1.01	2e-09	1e-06	50 x 17 olfactomedin 1 [Source:HGNC Symbol;Acc:17187]
11	8842	-0.95	2e-08	1e-06	50 x 10 prominin 1 [Source:HGNC Symbol;Acc:9454]
12	3248	-0.94	2e-08	1e-06	50 x 13 hydroxyprostaglandin dehydrogenase 15-(NAD) [Source:HGNC Symbol;Acc:11740]
13	55930	-0.93	4e-08	1e-06	50 x 13 myosin VC [Source:HGNC Symbol;Acc:7604]
14	66002	-0.93	4e-08	3e-06	50 x 13 cytochrome P450, family 4, subfamily F, polypeptide 12 [Source:HGNC Symbol;Acc:11740]
15	2139	0.9	8e-08	3e-06	50 x 13 eyes absent homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:11740]
16	92304	-0.9	1e-07	3e-06	50 x 10 secretoglobulin, family 3A, member 1 [Source:HGNC Symbol;Acc:11740]
17	55638	-0.9	1e-07	2e-05	50 x 11 syntabulin (syntaxin-interacting) [Source:HGNC Symbol;Acc:11740]
18	26002	-0.86	3e-07	2e-05	50 x 16 monooxygenase, DBH-like 1 [Source:HGNC Symbol;Acc:21740]
19	148170	0.85	4e-07	2e-05	50 x 9 CDC42 effector protein (Rho GTPase binding) 5 [Source:HGNC Symbol;Acc:11740]
20	11272	-0.84	6e-07	3e-05	50 x 10 proline rich 4 (lacrimal) [Source:HGNC Symbol;Acc:18020]

## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-24.73	NULL	11 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
2	-13.47	NULL	6 / 15	GSEA C2POOLA_INVASIVE_BREAST_CANCER_DN
3	-11.12	NULL	3 / 13	GSEA C2WONG_ENDMETRIUM_CANCER_UP
4	-10.61	NULL	1 / 5	GSEA C2FERRARI_RESPONSE_TO_FENRETINIDE_DN
5	-9.54	NULL	3 / 13	GSEA C2BOYVAULT_LIVER_CANCER_SUBCLASS_G3_DN
6	-9.4	NULL	3 / 12	GSEA C2CHIANG_LIVER_CANCER_SUBCLASS_INTERFERON_UP
7	-9.29	NULL	4 / 9	GSEA C2REACTOME_ETHANOL_OXIDATION
8	-9.01	NULL	2 / 13	GSEA C2CERVERA_SDHB_TARGETS_2
9	-8.73	NULL	2 / 10	GSEA C2LUI_THYROID_CANCER_CLUSTER_5
10	-8.37	NULL	33 / 375	Disease GUDJ_psooriasis down
11	-7.83	NULL	2 / 10	BP negative regulation of blood coagulation
12	-7.64	NULL	1 / 9	GSEA C2GOUYER_TATI_TARGETS_UP
13	-7.62	NULL	4 / 14	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_UP
14	-7.36	NULL	1 / 3	miRNA target-148a
15	-7.27	NULL	2 / 13	GSEA C2YANG_BREAST_CANCER_ESR1_UP
16	-7.22	NULL	4 / 16	GSEA C2CHANDRAN_METASTASIS_DN
17	-7.21	NULL	5 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_A
18	-6.98	NULL	3 / 14	GSEA C2LIEN_BREAST_CARCINOMA_METAPLASTIC_VS_DUCTAL_DN
19	-6.87	NULL	4 / 21	BP drug metabolic process
20	-6.86	NULL	3 / 15	GSEA C2MASSARWEH_RESPONSE_TO ESTRADIOL
21	-6.84	NULL	2 / 12	MF NAD+ binding
22	-6.81	NULL	4 / 37	BP digestion
23	-6.69	NULL	1 / 2	TF MYC_Cell cycle DOWN
24	-6.68	NULL	3 / 16	GSEA C2YANG_BREAST_CANCER_ESR1_BULK_UP
25	-6.63	NULL	2 / 9	GSEA C2RODWELL_AGING_KIDNEY_UP
26	-6.29	NULL	2 / 17	BP iron ion transport
27	-6.16	NULL	2 / 14	GSEA C2PEREZ_TP53_AND_TP63_TARGETS
28	-5.94	NULL	1 / 8	GSEA C2REACTOME_IONOTROPIC_ACTIVITY_OF_KAINATE_RECEPTOR
29	-5.86	NULL	1 / 9	GSEA C2LEE_LIVER_CANCER
30	-5.86	NULL	1 / 9	GSEA C2LEE_LIVER_CANCER_TOP50
31	-5.83	NULL	2 / 10	BP lipoxigenase pathway
32	-5.81	NULL	2 / 14	GSEA C2VANTVEER_BREAST_CANCER_ESR1_UP
33	-5.8	NULL	3 / 9	GSEA C2SOZGIT_ESR1_TARGETS_DN
34	-5.8	NULL	1 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
35	-5.76	NULL	2 / 6	GSEA C2RIZKI_TUMOR_INVASIVENESS_3D_UP
36	-5.72	NULL	3 / 4	miRNA target-204
37	-5.72	NULL	2 / 15	GSEA C2COLIN_PILOCYTIC_ASTROCYTOMA_VS_GLIOMASTOMA_UP
38	-5.69	NULL	2 / 11	GSEA C2RIGGI_EWING_SARCOMA_PROGENITOR_DN
39	-5.65	NULL	1 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL QUIESCENT_DN
40	-5.64	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN



# GW\_044

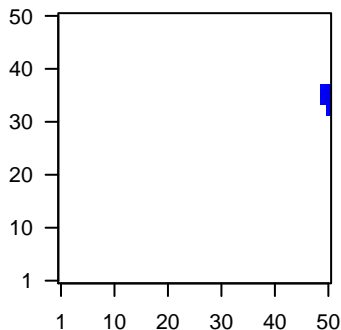
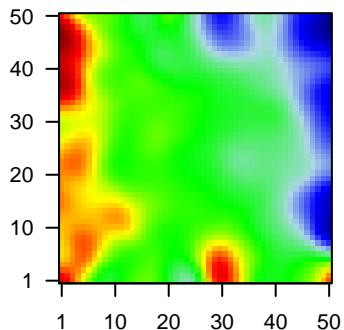
## Local Summary

%DE = 0.48  
 # metagenes = 10  
 # genes = 215  
 # genes in genesets = 215  
 # genes with  $fdr < 0.1 = 57$  ( 4 + / 53 - )  
 # genes with  $fdr < 0.05 = 32$  ( 2 + / 30 - )  
 # genes with  $fdr < 0.01 = 16$  ( 2 + / 14 - )

$\langle r \rangle$  metagenes = 0.97  
 $\langle r \rangle$  genes = 0.31  
 $\langle FC \rangle = -0.2$   
 $\langle \text{shrinkage-t} \rangle = -7.17$   
 $\langle p\text{-value} \rangle = 0.07$   
 $\langle fdr \rangle = 0.77$

Profile

Spot



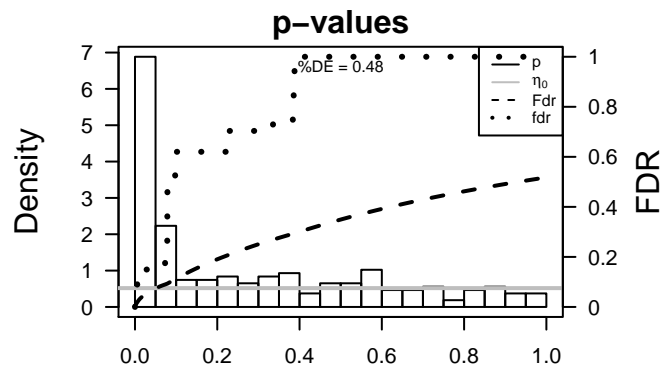
## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	9908	-0.99	5e-09	3e-06	50 x 36 GTPase activating protein (SH3 domain) binding protein 2 [Sr
2	7520	-0.93	3e-08	3e-04	50 x 35 X-ray repair complementing defective repair in Chinese hamr
3	55170	-0.79	3e-06	3e-04	50 x 37 protein arginine methyltransferase 6 [Source:HGNC Symbol;f
4	1429	0.76	6e-06	2e-03	50 x 34 crystallin, zeta (quinone reductase) [Source:HGNC Symbol;A
5	57088	-0.71	3e-05	2e-03	50 x 36 phospholipid scramblase 4 [Source:HGNC Symbol;Acc:1649;
6	23530	-0.7	4e-05	2e-03	50 x 36 nicotinamide nucleotide transhydrogenase [Source:HGNC Sy
7	57092	-0.68	5e-05	3e-03	50 x 35 PEST proteolytic signal containing nuclear protein [Source:HK
8	64747	0.67	8e-05	5e-03	50 x 34 major facilitator superfamily domain containing 1 [Source:HGI
9	283489	-0.64	1e-04	5e-03	50 x 32 chromosome alignment maintaining phosphoprotein 1 [Sourc
10	23588	-0.64	2e-04	7e-03	50 x 33 kelch domain containing 2 [Source:HGNC Symbol;Acc:20231
11	51663	-0.6	3e-04	7e-03	50 x 37 zinc finger RNA binding protein [Source:HGNC Symbol;Acc:1
12	10914	-0.59	5e-04	7e-03	50 x 33 poly(A) polymerase alpha [Source:HGNC Symbol;Acc:14981]
13	22878	-0.59	5e-04	7e-03	50 x 34 trafficking protein particle complex 8 [Source:HGNC Symbol;f
14	54664	-0.58	5e-04	7e-03	50 x 37 transmembrane protein 106B [Source:HGNC Symbol;Acc:22;
15	54495	-0.58	5e-04	7e-03	50 x 34 thioredoxin-related transmembrane protein 3 [Source:HGNC
16	10250	-0.58	6e-04	7e-03	50 x 35 serine/arginine repetitive matrix 1 [Source:HGNC Symbol;Acc
17	728026	-0.58	6e-04	2e-02	50 x 35 prothymosin, alpha [Source:HGNC Symbol;Acc:9623]
18	4254	-0.56	8e-04	3e-02	50 x 36 KIT ligand [Source:HGNC Symbol;Acc:6343]
19	6429	-0.55	1e-03	3e-02	49 x 37 serine/arginine-rich splicing factor 4 [Source:HGNC Symbol;f
20	120534	-0.54	1e-03	3e-02	50 x 33 ADP-ribosylation factor-like 14 effector protein [Source:HGN

## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-9.56	NULL	2 / 11	GSEA C2ROZANOV_MMP14_CORRELATED
2	-8.73	NULL	5 / 41	BP mRNA 3'-end processing
3	-8.39	NULL	5 / 44	BP termination of RNA polymerase II transcription
4	-8.14	NULL	3 / 14	GSEA C2REACTOME_MRNA_3_END_PROCESSING
5	-8.14	NULL	2 / 13	BP double-strand break repair via nonhomologous end joining
6	-8.03	NULL	1 / 2	MMML C6SCIEJ_MMML_38
7	-7.98	NULL	6 / 45	miRNA target-mir-34a
8	-7.74	NULL	1 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_B_DN
9	-7.57	NULL	7 / 118	miRNA target-mir-34e
10	-7.49	NULL	13 / 189	miRNA target-mir-34c
11	-7.4	NULL	1 / 11	BP cellular response to fatty acid
12	-7.4	NULL	1 / 11	MF telomeric DNA binding
13	-7.4	NULL	1 / 11	GSEA C2KEGG_NON_HOMOLOGOUS_END_JOINING
14	-7.34	NULL	5 / 46	miRNA target-mir-34a
15	-7.32	NULL	16 / 314	miRNA target-mir-550c-3p
16	-7.06	NULL	1 / 12	GSEA C2REACTOME_EARLY_PHASE_OF_HIV_LIFE_CYCLE
17	-7	NULL	9 / 155	miRNA target-mir-34e
18	-6.91	NULL	6 / 95	miRNA target-mir-365
19	-6.81	NULL	14 / 271	miRNA target-mir-34b
20	-6.8	NULL	8 / 178	miRNA target-mir-34e
21	-6.78	NULL	1 / 2	miRNA target-mir-98
22	-6.73	NULL	17 / 325	miRNA target-mir-342d
23	-6.71	NULL	8 / 159	CC nuclear speck
24	-6.69	NULL	2 / 14	GSEA C2ZHAN_MULTIPLE_MYELOMA_CD1_AND_CD2_UP
25	-6.63	NULL	10 / 163	BP mRNA splicing, via spliceosome
26	-6.63	NULL	1 / 15	MF receptor signaling complex scaffold activity
27	-6.63	NULL	1 / 15	GSEA C2SUNG_METASTASIS_STROMA_DN
28	-6.61	NULL	11 / 171	miRNA target-mir-34e-3p
29	-6.55	NULL	97 / 4640	CC nucleus
30	-6.54	NULL	14 / 229	miRNA target-mir-550g
31	-6.51	NULL	3 / 59	miRNA target-mir-34b*
32	-6.47	NULL	27 / 595	MF RNA binding
33	-6.46	NULL	11 / 229	BP RNA splicing
34	-6.39	NULL	5 / 38	miRNA target-mir-34e
35	-6.37	NULL	8 / 93	CC spliceosomal complex
36	-6.36	NULL	17 / 303	miRNA target-mir-34b
37	-6.35	NULL	17 / 271	miRNA target-mir-34e
38	-6.33	NULL	22 / 538	miRNA target-mir-34e
39	-6.21	NULL	1 / 11	MF histone methyltransferase activity
40	-6.11	NULL	2 / 14	GSEA C2BIOCARTA_TEL_PATHWAY



# GW\_044

## Local Summary

%DE = 0.64  
 # metagenes = 40  
 # genes = 472  
 # genes in genesets = 468

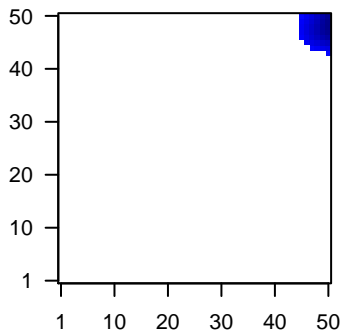
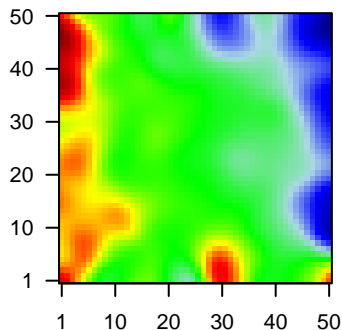
# genes with  $fdr < 0.1 = 178$  ( 32 + / 146 - )  
 # genes with  $fdr < 0.05 = 140$  ( 28 + / 112 - )  
 # genes with  $fdr < 0.01 = 105$  ( 19 + / 86 - )

<r> metagenes = 0.9  
 <r> genes = 0.24

<FC> = -0.22  
 <shrinkage-t> = -7.8  
 <p-value> = 0.01  
 <fdr> = 0.65

Profile

Spot



## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	216	-1.47	2e-16	8e-15	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC
2	3856	-2	2e-16	8e-15	50 x 48 keratin 8 pseudogene 3 [Source:HGNC Symbol;Acc:31056]
3	4953	-1.8	2e-16	8e-15	50 x 50 ornithine decarboxylase 1 [Source:HGNC Symbol;Acc:8109]
4	26227	-1.41	2e-16	8e-15	50 x 46 phosphoglycerate dehydrogenase [Source:HGNC Symbol;Ac
5	11166	-1.76	2e-16	8e-15	50 x 50 SRY (sex determining region Y)-box 21 [Source:HGNC Synt
6	6657	-1.33	4e-15	2e-12	50 x 50 SRY (sex determining region Y)-box 2 [Source:HGNC Symb
7	445	-1.3	1e-14	8e-12	50 x 47 argininosuccinate synthase 1 [Source:HGNC Symbol;Acc:75
8	7037	1.16	6e-14	3e-11	47 x 50 transferrin receptor [Source:HGNC Symbol;Acc:11763]
9	200634	1.22	5e-13	3e-11	50 x 49 keratinocyte associated protein 3 [Source:HGNC Symbol;Acc
10	4922	-1.21	6e-13	3e-11	50 x 50 neurotensin [Source:HGNC Symbol;Acc:8038]
11	1780	1.21	6e-13	1e-10	50 x 50 dynein, cytoplasmic 1, intermediate chain 1 [Source:HGNC S
12	4915	-1.19	1e-12	3e-10	50 x 50 neurotrophic tyrosine kinase, receptor, type 2 [Source:HGNC
13	655	-1.17	3e-12	7e-10	50 x 50 bone morphogenetic protein 7 [Source:HGNC Symbol;Acc:1
14	256764	1.15	7e-12	3e-08	50 x 50 WD repeat domain 72 [Source:HGNC Symbol;Acc:26790]
15	339512	-1.07	2e-10	3e-08	50 x 50 chromosome 1 open reading frame 110 [Source:HGNC Synt
16	604	1.06	3e-10	3e-08	50 x 50 B-cell CLL/lymphoma 6 [Source:HGNC Symbol;Acc:1001]
17	25975	1.05	5e-10	2e-07	48 x 50 EGF-like-domain, multiple 6 [Source:HGNC Symbol;Acc:32
18	84171	-1.01	2e-09	2e-07	50 x 49 lysyl oxidase-like 4 [Source:HGNC Symbol;Acc:17171]
19	7358	-1	3e-09	4e-07	50 x 50 UDP-glucose 6-dehydrogenase [Source:HGNC Symbol;Acc
20	51804	-0.98	7e-09	4e-07	50 x 46 SIX homeobox 4 [Source:HGNC Symbol;Acc:10890]

## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-15.05	NULL	5 / 15	GSEA C2KEGG_GLUTATHIONE_METABOLISM
2	-13.01	NULL	3 / 9	GSEA C2REACTOME_METABOLISM_OF_AMINO_ACIDS
3	-12.55	NULL	2 / 7	GSEA C2MCCOLLUM_GELDANAMYCIN_RESISTANCE_DN
4	-10.87	NULL	4 / 13	GSEA C2LEE_LIVER_CANCER_SURVIVAL_DN
5	-10.53	NULL	7 / 11	GSEA C2KALMA_E2F1_TARGETS
6	-10.39	NULL	3 / 7	GSEA C2REACTOME_G1_S_TRANSITION
7	-10.33	NULL	4 / 8	GSEA C2REACTOME_E2F_TRANSSCRIPTIONAL_TARGETS_AT_G1_S
8	-10.19	NULL	2 / 12	GSEA C2MOROSSETTI_FACIOSCAPULOHUMERAL_MUSCULAR_DISTRO
9	-9.92	NULL	12 / 30	BP DNA strand elongation involved in DNA replication
10	-9.69	NULL	3 / 11	MF glutathione binding
11	-9.69	NULL	3 / 11	GSEA C2KEGG_DRUG_METABOLISM_CYTOCHROME_P450
12	-9.66	NULL	10 / 16	GSEA C2EGUCHI_CELL_CYCLE_RB1_TARGETS
13	-9.64	NULL	4 / 13	GSEA C2KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME
14	-9.51	NULL	3 / 12	GSEA C2CASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_DN
15	-9.51	NULL	6 / 11	GSEA C2REACTOME_UNWINDING_OF_DNA
16	-9.3	NULL	4 / 16	GSEA C2KAN_RESPONSE_TO_ARSENIC_TRIOXIDE
17	-9.08	NULL	4 / 16	GSEA C2FUJII_YBX1_TARGETS_DN
18	-8.97	NULL	4 / 15	GSEA C2WHITEFORD_PEDIATRIC_CANCER_MARKERS
19	-8.89	NULL	2 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_DN
20	-8.84	NULL	1 / 7	GSEA C2REACTOME_REGULATION_OF_ORNITHINE_DECARBOXYLASE
21	-8.83	NULL	5 / 20	MF glutathione transferase activity
22	-8.82	NULL	7 / 16	GSEA C2SONG_TARGETS_OF_IE86_CMV_PROTEIN
23	-8.82	NULL	6 / 16	GSEA C2PUJANA_BREAST_CANCER_WITH_BRCA1_MUTATED_UP
24	-8.81	NULL	4 / 14	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_2
25	-8.75	NULL	4 / 16	GSEA C2KOBAYASHI_EGFR_SIGNALING_24HR_DN
26	-8.74	NULL	3 / 14	GSEA C2RUIZ_TNC_TARGETS_DN
27	-8.67	NULL	6 / 25	BP glutathione derivative biosynthetic process
28	-8.66	NULL	4 / 11	GSEA C2REACTOME_E2F_MEDIATED_REGULATION_OF_DNA_REPLIC
29	-8.63	NULL	4 / 13	BP regulation of blood vessel size
30	-8.62	NULL	5 / 19	BP cellular amino acid biosynthetic process
31	-8.53	NULL	3 / 19	BP anatomical structure formation involved in morphogenesis
32	-8.44	NULL	5 / 16	GSEA C2CAIRO_HEPATOBLASTOMA_CLASSES_UP
33	-8.42	NULL	3 / 16	GSEA C2BOYVAULT_LIVER_CANCER_SUBCLASS_G1_DN
34	-8.33	NULL	3 / 12	GSEA C2SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_DN
35	-8.23	NULL	4 / 16	GSEA C2HORIUCHI_WTPAT_TARGETS_DN
36	-8.21	NULL	2 / 12	BP cellular aldehyde metabolic process
37	-8.21	NULL	1 / 8	GSEA C2PUJANA_CHEK2_PCC_NETWORK
38	-8.09	NULL	5 / 14	GSEA C2SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_UP
39	-7.98	NULL	2 / 10	GSEA C2CONRAD_STEM_CELL
40	-7.95	NULL	2 / 23	BP stem cell differentiation

p-values

