

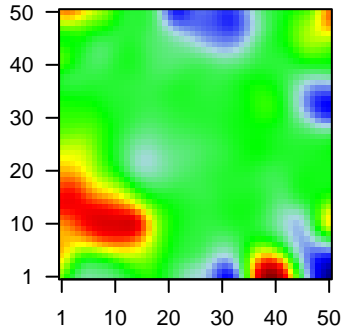
# GW\_066

## Global Summary

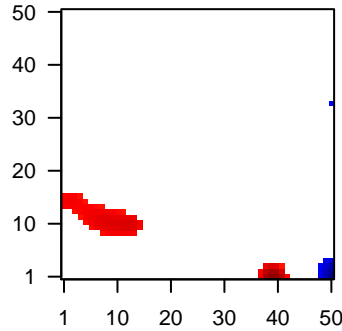
%DE = 0.15  
 # genes with  $fdr < 0.2$  = 1805 ( 1025 + / 780 - )  
 # genes with  $fdr < 0.1$  = 1605 ( 917 + / 688 - )  
 # genes with  $fdr < 0.05$  = 1312 ( 766 + / 546 - )  
 # genes with  $fdr < 0.01$  = 894 ( 543 + / 351 - )  
 # genes in genesets = 16332

<FC> = 0  
 <shrinkage-t> = 0  
 <p-value> = 0.1  
 <fdr> = 0.85

Profile



Regulated Spots



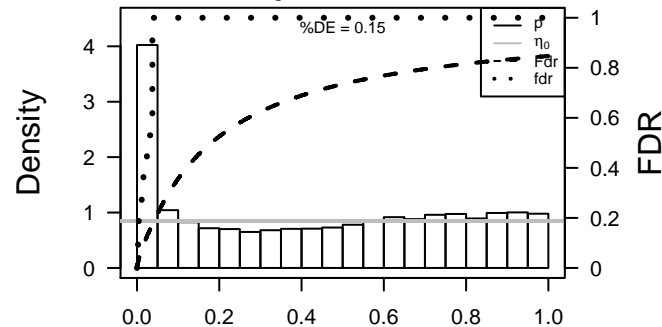
## Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	124	2.57	2e-16	4e-14	50 x 11 alcohol dehydrogenase 1A (class I), alpha polypeptide [Source:HGNC]
2	126	2.19	2e-16	4e-14	50 x 12 alcohol dehydrogenase 1C (class I), gamma polypeptide [Source:HGNC]
3	216	1.46	2e-16	4e-14	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC]
4	220	1.55	2e-16	4e-14	4 x 46 aldehyde dehydrogenase 1 family, member A3 [Source:HGNC]
5	222	1.51	2e-16	4e-14	1 x 49 aldehyde dehydrogenase 3 family, member B2 [Source:HGNC]
6	55107	1.97	2e-16	4e-14	1 x 5 anoctamin 1, calcium activated chloride channel [Source:HGNC]
7	344905	1.35	2e-16	4e-14	50 x 50 ATPase type 13A5 [Source:HGNC Symbol;Acc:31789]
8	25805	-1.74	2e-16	4e-14	8 x 1 BMP and activin membrane-bound inhibitor [Source:HGNC Symbol;Acc:2050]
9	664	-1.32	2e-16	4e-14	2 x 43 BCL2/adenovirus E1B 19kDa interacting protein 3 [Source:HGNC]
10	684	-1.96	2e-16	4e-14	32 x 1 bone marrow stromal cell antigen 2 [Source:HGNC Symbol;Acc:2050]
11	339512	1.7	2e-16	4e-14	50 x 50 chromosome 1 open reading frame 110 [Source:HGNC Symbol;Acc:2050]
12	713	-1.53	2e-16	4e-14	50 x 1 complement component 1, q subcomponent, B chain [Source:HGNC]
13	92747	1.67	2e-16	4e-14	50 x 10 BPI fold containing family B, member 1 [Source:HGNC Symbol;Acc:2050]
14	140851	-1.38	2e-16	4e-14	1 x 5
15	6366	1.37	2e-16	4e-14	50 x 2 chemokine (C-C motif) ligand 21 [Source:HGNC Symbol;Acc:2050]
16	595	1.31	2e-16	4e-14	1 x 6 cyclin D1 [Source:HGNC Symbol;Acc:1582]
17	970	1.43	2e-16	4e-14	33 x 2 CD70 molecule [Source:HGNC Symbol;Acc:11937]
18	113130	1.39	2e-16	4e-14	44 x 49 cell division cycle associated 5 [Source:HGNC Symbol;Acc:11937]
19	22802	1.87	2e-16	4e-14	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:2050]
20	9073	1.66	2e-16	4e-14	8 x 50 claudin 8 [Source:HGNC Symbol;Acc:2050]

## Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	13.13	NULL	42	BP keratinization
2	8.62	NULL	21	CC cornified envelope
3	7.59	NULL	9	GSEA C2REACTOME_ETHANOL_OXIDATION
4	7.45	NULL	504	Chr Chr 15
5	7.3	NULL	8	GSEA C2L10_CDX2_TARGETS_DN
6	7.07	NULL	15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
7	7.02	NULL	1135	Chr Chr 19
8	7.02	NULL	957	Chr Chr 11
9	6.39	NULL	15	GSEA C2NIKOLSKY_BREAST_CANCER_8P12_P11_AMPLICON
10	6.37	NULL	23	Chr Chr HSCR6_MHC_DBB
11	5.84	NULL	76	BP epidermis development
12	5.82	NULL	135	H.Tiss WIRTH_Mucosa
13	5.71	NULL	16	GSEA C2KEGG_BLADDER_CANCER
14	5.66	NULL	13	GSEA C2REACTOME_REGULATION_OF_INSULIN_LIKE_GROWTH_FACTOR
15	5.62	NULL	53	BP keratinocyte differentiation
16	5.57	NULL	18	BP retinol metabolic process
17	5.41	NULL	16	GSEA C2GOUYER_TATI_TARGETS_DN
18	5.38	NULL	15	GSEA C2Y_AGING_MIDDLE_DN
19	5.36	NULL	12	GSEA C2L1_LUNG_CANCER
20	5.33	NULL	186	MF structural molecule activity
<i>Underexpressed</i>				
1	-17.13	NULL	633	Chr Chr 9
2	-14.16	NULL	280	Chr Chr 13
3	-10.54	NULL	699	Chr Chr 5
4	-9.15	NULL	10	GSEA C2CHASSOT_SKIN_WOUND
5	-8	NULL	16	GSEA C2ENAV_INTERFERON_SIGNATURE_IN_CANCER
6	-7.28	NULL	123	BP defense response to virus
7	-7.15	NULL	16	GSEA C2MOSERLE_IFNA_RESPONSE
8	-7.1	NULL	13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
9	-6.75	NULL	51	BP type I interferon signaling pathway
10	-6.69	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
11	-6.63	NULL	16	GSEA C2ZHANG_INTERFERON_RESPONSE
12	-6.58	NULL	316	Cancer SPANG_BCL6-index2
13	-6.5	NULL	265	Glio willscher_GBM_Verhaak-CL_expression_B_up
14	-6.5	NULL	265	Glio willscher_GBM_Verhaak-MES_expression_B_up
15	-6.5	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
16	-6.5	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
17	-6.24	NULL	31	BP negative regulation of viral genome replication
18	-6.15	NULL	16	GSEA C2BILBAN_B_CLL_LPL_DN
19	-6.12	NULL	4	GSEA C2REACTOME_CLASSICAL_ANTIBODY_MEDIATED_COMPLEMENT
20	-6	NULL	10	GSEA C2GRANDVAUX_IFN_RESPONSE_NOT_VIA_IRF3

p-values



# GW\_066

## Local Summary

%DE = 0.8  
 # metagenes = 15  
 # genes = 251  
 # genes in genesets = 225

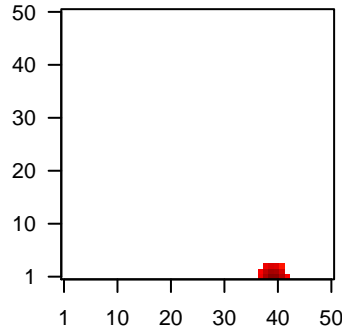
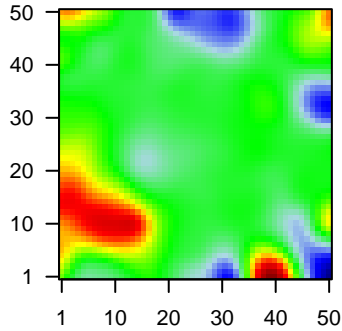
# genes with  $fdr < 0.1 = 154$  ( 141 + / 13 - )  
 # genes with  $fdr < 0.05 = 115$  ( 105 + / 10 - )  
 # genes with  $fdr < 0.01 = 79$  ( 75 + / 4 - )

$\langle r \rangle$  metagenes = 0.98  
 $\langle r \rangle$  genes = 0.49

$\langle FC \rangle = 0.3$   
 $\langle \text{shrinkage-t} \rangle = 10.69$   
 $\langle p\text{-value} \rangle = 0.01$   
 $\langle fdr \rangle = 0.58$

Profile

Spot



## Local Genelist

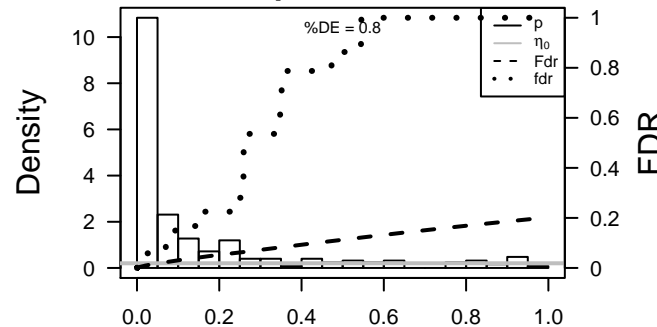
Rank	ID	log(FC)	fdr	p-value	Description
1	11180	1.2	8e-14	3e-08	42 x 1 WD repeat domain 6 [Source:HGNC Symbol;Acc:12758]
2	23466	0.98	1e-09	3e-08	41 x 1 chromobox homolog 6 [Source:HGNC Symbol;Acc:1556]
3	641737	0.91	1e-09	7e-06	40 x 1
4	51326	0.84	2e-07	7e-06	42 x 1 ADP-ribosylation factor-like 17B [Source:HGNC Symbol;Acc:21806]
5	23162	0.82	3e-07	7e-06	39 x 1 mitogen-activated protein kinase 8 interacting protein 3 [Source:HGNC Symbol;Acc:21806]
6	9905	0.8	6e-07	7e-06	40 x 2 small G protein signaling modulator 2 [Source:HGNC Symbol;Acc:21806]
7	136051	0.79	9e-07	7e-06	40 x 1 zinc finger protein 786 [Source:HGNC Symbol;Acc:21806]
8	399761	0.79	9e-07	7e-06	39 x 1 BMS1 pseudogene 5 [Source:HGNC Symbol;Acc:23653]
9	51478	0.79	9e-07	2e-05	39 x 1 hydroxysteroid (17-beta) dehydrogenase 7 [Source:HGNC Symbol;Acc:21806]
10	1375	0.77	2e-06	2e-05	42 x 1 carnitine palmitoyltransferase 1B (muscle) [Source:HGNC Symbol;Acc:21806]
11	152485	0.77	2e-06	5e-05	41 x 1 zinc finger protein 827 [Source:HGNC Symbol;Acc:27193]
12	440275	0.75	3e-06	6e-05	40 x 1 eukaryotic translation initiation factor 2 alpha kinase 4 [Source:HGNC Symbol;Acc:21806]
13	90586	0.74	4e-06	8e-05	39 x 1 amine oxidase, copper containing 4, pseudogene [Source:HGNC Symbol;Acc:21806]
14	8548	0.72	8e-06	8e-05	39 x 1 basic leucine zipper nuclear factor 1 [Source:HGNC Symbol;Acc:21806]
15	256364	0.71	1e-05	8e-05	41 x 3 echinoderm microtubule associated protein like 3 [Source:HGNC Symbol;Acc:21806]
16	8930	0.71	1e-05	8e-05	39 x 1 methyl-CpG binding domain protein 4 [Source:HGNC Symbol;Acc:21806]
17	126205	0.71	1e-05	8e-05	40 x 1 NLR family, pyrin domain containing 8 [Source:HGNC Symbol;Acc:21806]
18	91368	0.64	1e-05	8e-05	39 x 1 CDKN2A interacting protein N-terminal like [Source:HGNC Symbol;Acc:21806]
19	729603	0.64	1e-05	1e-04	40 x 1
20	8566	0.69	2e-05	1e-04	41 x 2 pyridoxal (pyridoxine, vitamin B6) kinase [Source:HGNC Symbol;Acc:21806]

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	8.14	NULL	2 / 13	GSEA C2GAZDA_DIAMOND_BLACKFAN_ANEMIA_ERYTHROID_DN
2	7.79	NULL	3 / 14	MMML C6ACIEJ_MMML 8
3	6.98	NULL	2 / 4	GSEA C2BIOCARTA_CYTOKINE_PATHWAY
4	6.94	NULL	1 / 13	MF insulin receptor substrate binding
5	6.72	NULL	2 / 19	MF mitogen-activated protein kinase kinase binding
6	6.59	NULL	3 / 13	GSEA C2SPIRA_SMOKERS_LUNG_CANCER_DN
7	6.4	NULL	1 / 15	BP negative regulation of autophagy
8	6.38	NULL	1 / 7	GSEA C2KEGG_STEROID_HORMONE_BIOSYNTHESIS
9	5.79	NULL	1 / 4	GSEA C2MYLLKANGAS_AMPLIFICATION_HOT_SPOT_5
10	5.63	NULL	2 / 22	CC heterochromatin
11	5.4	NULL	1 / 10	BP lung morphogenesis
12	5.25	NULL	2 / 29	BP positive regulation of JUN kinase activity
13	5.2	NULL	1 / 10	GSEA C2REACTOME_TRANSFORMATION_OF_LANOSTEROL_TO_CHOLESTEROL
14	5.11	NULL	1 / 11	CC axolemma
15	5.04	NULL	2 / 15	GSEA C2FIRESTEIN_PROLIFERATION
16	5.01	NULL	1 / 11	GSEA C2GARCIA_TARGETS_OF_FL11_AND_DAX1_UP
17	4.94	NULL	2 / 14	BP cellular response to estradiol stimulus
18	4.93	NULL	1 / 4	GSEA C2WEBER_METHYLATED_ICP_IN_SPERM_UP
19	4.93	NULL	2 / 15	GSEA C2ZHOU_INFLAMMATORY_RESPONSE_LIVE_DN
20	4.93	NULL	2 / 15	GSEA C2ZHOU_INFLAMMATORY_RESPONSE_LPS_DN
21	4.92	NULL	1 / 9	GSEA C2ROWELL_AGING_KIDNEY_UP
22	4.89	NULL	4 / 44	BP meiosis
23	4.81	NULL	1 / 9	GSEA C2TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_UP
24	4.81	NULL	1 / 9	GSEA C2DER_IFN_ALPHA_RESPONSE_UP
25	4.69	NULL	2 / 11	GSEA C2STEIN_ESRRA_TARGETS_DN
26	4.68	NULL	1 / 11	GSEA C2BIOCARTA_EIF2_PATHWAY
27	4.63	NULL	1 / 13	BP regulation of JNK cascade
28	4.63	NULL	1 / 13	CC smooth endoplasmic reticulum
29	4.63	NULL	2 / 23	BP G2 DNA damage checkpoint
30	4.62	NULL	1 / 10	MF endodeoxyribonuclease activity
31	4.62	NULL	1 / 10	GSEA C2REACTOME_BASE_FREE_SUGAR_PHOSPHATE_REMOVAL_VIA_GLYCOPHYLLATE
32	4.51	NULL	3 / 16	GSEA C2HAMAI_APOPTOSIS_VIA_TRAIL_UP
33	4.5	NULL	3 / 15	GSEA C2WANG_CLIM2_TARGETS_UP
34	4.43	NULL	1 / 14	MF mitogen-activated protein kinase binding
35	4.43	NULL	1 / 14	GSEA C2ST_DIFFERENTIATION_PATHWAY_IN_PC12_CELLS
36	4.43	NULL	2 / 15	GSEA C2REACTOME_SPHINGOLIPID_METABOLISM
37	4.36	NULL	1 / 20	miRNA target sites 5p
38	4.27	NULL	1 / 11	GSEA C2DER_IFN_BETA_RESPONSE_UP
39	4.26	NULL	1 / 15	GSEA C2SA_B_CELL_RECEPTOR_COMPLEXES
40	4.26	NULL	1 / 15	GSEA C2SIG_CD40PATHWAYMAP

p-values



# GW\_066

## Local Summary

%DE = 0.56  
 # metagenes = 66  
 # genes = 536  
 # genes in genesets = 514

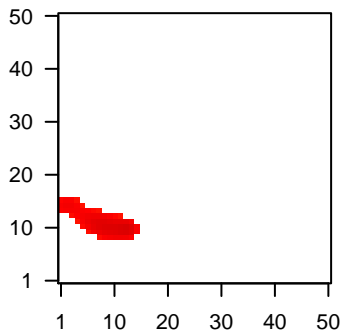
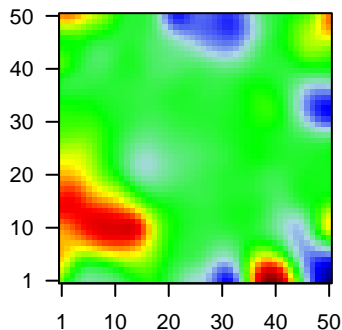
# genes with  $fdr < 0.1$  = 175 ( 163 + / 12 - )  
 # genes with  $fdr < 0.05$  = 138 ( 130 + / 8 - )  
 # genes with  $fdr < 0.01$  = 99 ( 93 + / 6 - )

$\langle r \rangle$  metagenes = 0.78  
 $\langle r \rangle$  genes = 0.2

$\langle FC \rangle = 0.23$   
 $\langle \text{shrinkage-t} \rangle = 8.17$   
 $\langle p\text{-value} \rangle = 0.01$   
 $\langle fdr \rangle = 0.68$

Profile

Spot



## Local Genelist

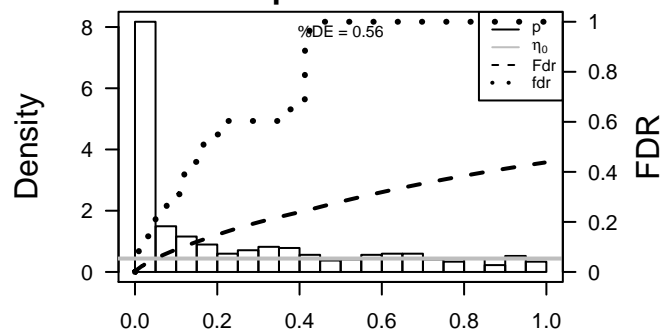
Rank	ID	log(FC)	fdr	p-value	Description
1	10202	2.24	2e-16	3e-14	1 x 15 dehydrogenase/reductase (SDR family) member 2 [Source:HGNC Symbol;Acc:26561]
2	121355	1.37	2e-16	3e-14	14 x 11 gametocyte specific factor 1 [Source:HGNC Symbol;Acc:26561]
3	55655	1.23	2e-14	6e-12	15 x 11 NLR family, pyrin domain containing 2 [Source:HGNC Symbol;Acc:26561]
4	286499	1.21	4e-14	2e-10	15 x 11 family with sequence similarity 133, member A [Source:HGNC Symbol;Acc:26561]
5	8772	1.15	9e-13	1e-09	1 x 14 Fas (TNFRSF6)-associated via death domain [Source:HGNC Symbol;Acc:26561]
6	219931	1.1	9e-12	1e-09	1 x 14 two pore segment channel 2 [Source:HGNC Symbol;Acc:208]
7	55291	1.08	1e-11	1e-09	6 x 11 protein phosphatase 6, regulatory subunit 3 [Source:HGNC Symbol;Acc:26561]
8	219927	1.07	2e-11	1e-09	1 x 15 mitochondrial ribosomal protein L21 [Source:HGNC Symbol;Acc:26561]
9	4109	1.07	3e-11	1e-09	14 x 11 melanoma antigen family A, 10 [Source:HGNC Symbol;Acc:6]
10	645037	1.07	3e-11	2e-07	14 x 11 G antigen 2C [Source:HGNC Symbol;Acc:31958]
11	26748	0.98	1e-09	2e-07	14 x 11 G antigen 12I [Source:HGNC Symbol;Acc:4105]
12	2577	0.97	2e-09	2e-07	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
13	402	0.96	2e-09	5e-07	8 x 10 ADP-ribosylation factor-like 2 [Source:HGNC Symbol;Acc:66]
14	55653	0.93	6e-09	5e-07	9 x 10 breast carcinoma amplified sequence 4 [Source:HGNC Symbol;Acc:26561]
15	203068	0.92	1e-08	5e-07	3 x 15 tubulin, beta class I [Source:HGNC Symbol;Acc:20778]
16	4041	0.92	1e-08	5e-07	12 x 9 low density lipoprotein receptor-related protein 5 [Source:HGNC Symbol;Acc:26561]
17	3508	0.91	2e-08	5e-07	1 x 14 immunoglobulin mu binding protein 2 [Source:HGNC Symbol;Acc:26561]
18	729442	0.91	2e-08	5e-07	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
19	55199	0.9	2e-08	5e-07	4 x 16 family with sequence similarity 86, member C1 [Source:HGNC Symbol;Acc:26561]
20	23	0.9	2e-08	1e-06	7 x 12 ATP-binding cassette, sub-family F (GCN20), member 1 [Source:HGNC Symbol;Acc:26561]

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	8.07	NULL	4 / 23	Chr Chr HSCHR6_MHC_DBB
2	7.76	NULL	1 / 15	BP myeloid dendritic cell differentiation
3	7.76	NULL	1 / 15	GSEA C2FARMER_BREAST_CANCER_CLUSTER_7
4	7.48	NULL	1 / 16	GSEA C2TING_SILENCED_BY_DICER
5	7.4	NULL	3 / 11	GSEA C2MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_UP
6	7.25	NULL	38 / 957	Chr Chr 11
7	7.02	NULL	11 / 45	Glio willscher_GBM_Verhaak-PNwt_expression_J_up
8	6.99	NULL	3 / 15	GSEA C2KAUFFMANN_DNA_REPLICATION_GENES
9	6.8	NULL	3 / 14	GSEA C2BONCI_TARGETS_OF_MIR15A_AND_MIR16_1
10	6.75	NULL	1 / 2	miRNA target-16-1
11	6.45	NULL	1 / 6	GSEA C2GALI_TP53_TARGETS_APOPTOTIC_DN
12	6.45	NULL	2 / 13	GSEA C2NADERI_BREAST_CANCER_PROGNOSIS_UP
13	6.44	NULL	4 / 28	MF ribosome binding
14	6.43	NULL	1 / 4	GSEA C2KRASNOSELSKAYA_ILF3_TARGETS_UP
15	6.41	NULL	1 / 4	GSEA C2NIELSEN_LEIOMYOSARCOMA_DN
16	6.37	NULL	5 / 15	GSEA C2MATTIOLI_MULTIPLE_MYELOMA_SUBGROUPS
17	5.99	NULL	2 / 25	BP cellular response to oxidative stress
18	5.97	NULL	3 / 12	GSEA C2BROWNE_HCMV_INFECTION_14HR_UP
19	5.93	NULL	3 / 10	GSEA C2HOFMANN_MYELODYSPLASTIC_SYNDROME_LOW_RISK_DN
20	5.78	NULL	3 / 10	GSEA C2TOMIDA_METASTASIS_UP
21	5.67	NULL	2 / 16	GSEA C2SCHLOSSER_SERUM_RESPONSE_AUGMENTED_BY_MYC
22	5.63	NULL	2 / 10	GSEA C2CONRAD_STEM_CELL
23	5.6	NULL	2 / 16	GSEA C2TIEN_INTESTINE_PROBIOTICS_2HR_UP
24	5.59	NULL	1 / 5	GSEA C2GRASEMANN_RETINOBLASTOMA_WITH_6P_AMPLIFICATION
25	5.57	NULL	3 / 16	Cancer RHODES_UNDIFFERENTIATED_CANCER
26	5.52	NULL	2 / 12	GSEA C2BACOLOD_RESISTANCE_TO_ALKYLATING_AGENTS_DN
27	5.51	NULL	4 / 19	MF hydrolase activity, acting on acid anhydrides, in phosphorus-containing
28	5.41	NULL	1 / 5	GSEA C2REACTOME_ELECTRON_TRANSPORT_CHAIN
29	5.34	NULL	2 / 15	GSEA C2WNT_SIGNALING
30	5.29	NULL	2 / 11	Glio willscher_GBM_Verhaak-CL_expression_M_down
31	5.29	NULL	2 / 11	Glio willscher_GBM_Verhaak-MES_expression_M_down
32	5.29	NULL	2 / 11	Glio willscher_GBM_Verhaak-PNmut_expression_M_up
33	5.22	NULL	1 / 5	GSEA C2NAGY_PCAF_COMPONENTS_HUMAN
34	5.15	NULL	2 / 8	GSEA C2KEGG_PRION_DISEASES
35	5.13	NULL	2 / 15	GSEA C2BROWNE_HCMV_INFECTION_8HR_DN
36	5.13	NULL	1 / 9	GSEA C2BIOCARTA_RELA_PATHWAY
37	5.13	NULL	1 / 9	GSEA C2BIOCARTA_NFKB_PATHWAY
38	5.13	NULL	1 / 9	GSEA C2BIOCARTA_SODD_PATHWAY
39	5.13	NULL	1 / 9	GSEA C2REACTOME_DEATH_RECEPTOR_SIGNALLING
40	5.06	NULL	5 / 56	BP protein heterooligomerization

p-values



# GW\_066

## Local Summary

%DE = 0.67  
 # metagenes = 11  
 # genes = 222  
 # genes in genesets = 220

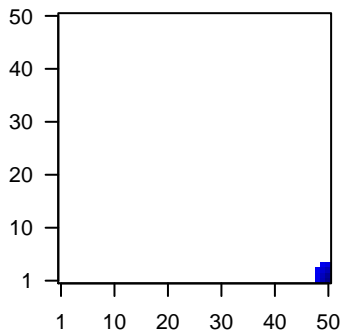
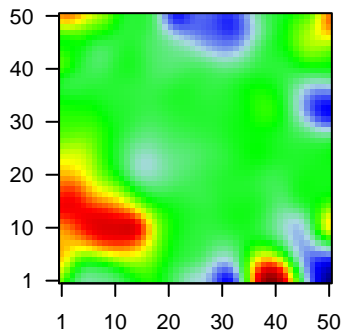
# genes with  $fdr < 0.1 = 122$  ( 19 + / 103 - )  
 # genes with  $fdr < 0.05 = 105$  ( 16 + / 89 - )  
 # genes with  $fdr < 0.01 = 75$  ( 14 + / 61 - )

$\langle r \rangle$  metagenes = 0.99  
 $\langle r \rangle$  genes = 0.61

$\langle FC \rangle = -0.26$   
 $\langle \text{shrinkage-t} \rangle = -8.99$   
 $\langle p\text{-value} \rangle = 0$   
 $\langle fdr \rangle = 0.52$

Profile

Spot



## Local Genelist

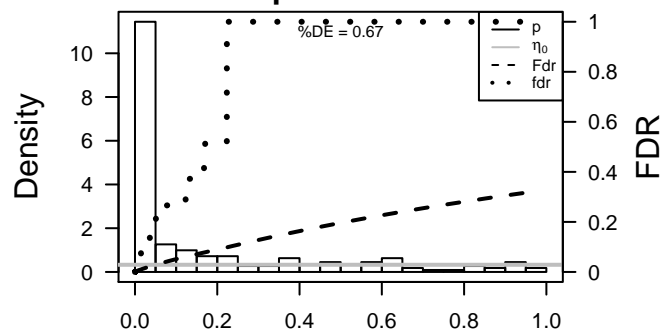
Rank	ID	log(FC)	fdr	p-value	Description
1	713	-1.53	2e-16	3e-15	50 x 1 complement component 1, q subcomponent, B chain [Source:HGNC Symbol;Acc:607]
2	6366	1.37	2e-16	3e-15	50 x 2 chemokine (C-C motif) ligand 21 [Source:HGNC Symbol;Acc:607]
3	1545	1.69	2e-16	3e-15	50 x 4 cytochrome P450, family 1, subfamily B, polypeptide 1 [Source:HGNC Symbol;Acc:607]
4	3620	1.63	2e-16	3e-15	48 x 1 indoleamine 2,3-dioxygenase 1 [Source:HGNC Symbol;Acc:607]
5	3543	1.5	2e-16	3e-15	49 x 1 immunoglobulin lambda-like polypeptide 1 [Source:HGNC Symbol;Acc:607]
6	3128	-1.25	7e-15	7e-13	50 x 1 major histocompatibility complex, class II, DR beta 6 (pseudogene) [Source:HGNC Symbol;Acc:607]
7	5996	-1.23	2e-14	9e-13	50 x 1 regulator of G-protein signaling 1 [Source:HGNC Symbol;Acc:607]
8	5920	1.22	4e-14	9e-13	48 x 1 retinoic acid receptor responder (tazarotene induced) 3 [Source:HGNC Symbol;Acc:607]
9	714	-1.21	4e-14	1e-11	50 x 1 complement component 1, q subcomponent, C chain [Source:HGNC Symbol;Acc:607]
10	341	-1.18	2e-13	2e-10	50 x 1 apolipoprotein C-I [Source:HGNC Symbol;Acc:607]
11	3122	-1.05	3e-12	4e-09	50 x 1 major histocompatibility complex, class II, DR alpha [Source:HGNC Symbol;Acc:607]
12	7305	-1.05	5e-11	7e-09	50 x 1 TYRO protein tyrosine kinase binding protein [Source:HGNC Symbol;Acc:607]
13	5552	-1.02	2e-10	7e-09	50 x 1 serglycin [Source:HGNC Symbol;Acc:9361]
14	3113	-1.01	3e-10	7e-09	50 x 1 major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:607]
15	3109	-1.01	3e-10	2e-08	50 x 1 major histocompatibility complex, class II, DM beta [Source:HGNC Symbol;Acc:607]
16	2207	-0.99	6e-10	2e-07	50 x 1 Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide chain [Source:HGNC Symbol;Acc:607]
17	57172	0.95	3e-09	7e-07	49 x 1 calcium/calmodulin-dependent protein kinase I gamma [Source:HGNC Symbol;Acc:607]
18	84868	-0.89	3e-08	7e-07	50 x 1 hepatitis A virus cellular receptor 2 [Source:HGNC Symbol;Acc:607]
19	962	-0.88	5e-08	7e-07	50 x 1 CD48 molecule [Source:HGNC Symbol;Acc:1683]
20	54855	0.87	5e-08	7e-07	49 x 1 family with sequence similarity 46, member C [Source:HGNC Symbol;Acc:607]

## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-27.67	NULL	11 / 15	CC MHC class II protein complex
2	-24.43	NULL	2 / 4	GSEA C2REACTOME_CLASSICAL_ANTIBODY_MEDIATED_COMPLEMENTATION_PATHWAY
3	-20.19	NULL	36 / 265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
4	-20.19	NULL	36 / 265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
5	-20.19	NULL	36 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
6	-20.19	NULL	36 / 265	Glio wilscher_GBM_Verhaak-PNmut_expression_B_down
7	-17.75	NULL	2 / 7	GSEA C2BIOCARTA_COMP_PATHWAY
8	-16.64	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
9	-16.47	NULL	2 / 8	GSEA C2BIOCARTA_CLASSIC_PATHWAY
10	-16.47	NULL	2 / 8	GSEA C2REACTOME_COMPLEMENT_CASCADE
11	-16.47	NULL	2 / 8	GSEA C2REACTOME_INITIAL_TRIGGERING_OF_COMPLEMENTATION_PATHWAY
12	-15.42	NULL	13 / 47	BP antigen processing and presentation
13	-15.31	NULL	6 / 21	CC clathrin-coated endocytic vesicle membrane
14	-14.57	NULL	6 / 23	CC integral to luminal side of endoplasmic reticulum membrane
15	-14.28	NULL	2 / 6	GSEA C2BDUHU_LIVER_CANCER_METASTASIS_UP
16	-14.03	NULL	2 / 4	GSEA C2KEGG_LEISHMANIA_INFECTION
17	-13.96	NULL	3 / 8	GSEA C2INDSTEDT_DENDRITIC_CELL_MATURATION_DOWN
18	-13.93	NULL	76 / 417	H.Tiss WIRTH_Immune system
19	-13.49	NULL	3 / 16	GSEA C2KAAB_FAILED_HEART_VENTRICLE_DN
20	-13.13	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
21	-13.11	NULL	15 / 74	BP regulation of immune response
22	-13.09	NULL	6 / 28	CC transport vesicle membrane
23	-12.98	NULL	5 / 12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN
24	-12.74	NULL	80 / 553	Cancer Lembecke_Colonc Inflammation
25	-12.71	NULL	2 / 10	GSEA C2AMUNDSON_GAMMA_RADIATION_RESISTANCE
26	-12.53	NULL	3 / 11	GSEA C2KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY
27	-12.32	NULL	3 / 10	GSEA C2HOSHIDA_LIVER_CANCER_SUBCLASS_S1
28	-12.16	NULL	6 / 32	CC ER to Golgi transport vesicle membrane
29	-12.05	NULL	7 / 35	CC trans-Golgi network membrane
30	-11.96	NULL	11 / 87	BP antigen processing and presentation of exogenous peptide antigen
31	-11.86	NULL	4 / 10	GSEA C2BIOCARTA_LYM_PATHWAY
32	-11.74	NULL	7 / 46	CC endocytic vesicle membrane
33	-11.72	NULL	6 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
34	-11.55	NULL	2 / 6	GSEA C2LUI_THYROID_CANCER_CLUSTER_4
35	-11.21	NULL	3 / 11	GSEA C2WILENSKY_RESPONSE_TO_DARAPLADIB
36	-11.07	NULL	4 / 11	GSEA C2APPEL_IMATINIB_RESPONSE
37	-10.86	NULL	5 / 12	BP immunoglobulin mediated immune response
38	-10.79	NULL	5 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
39	-10.68	NULL	6 / 15	GSEA C2FINAK_BREAST_CANCER_SDPD_SIGNATURE
40	-10.32	NULL	3 / 13	GSEA C2CAVARD_LIVER_CANCER_MALIGNANT_VS_BENIGN

p-values



# GW\_066

## Local Summary

%DE = 0.43  
 # metagenes = 1  
 # genes = 32  
 # genes in genesets = 32  
 # genes with  $fdr < 0.1 = 5$  (0 + / 5 -)  
 # genes with  $fdr < 0.05 = 5$  (0 + / 5 -)  
 # genes with  $fdr < 0.01 = 5$  (0 + / 5 -)

<r> metagenes = NA

<r> genes = 0.37

<FC> = -0.25

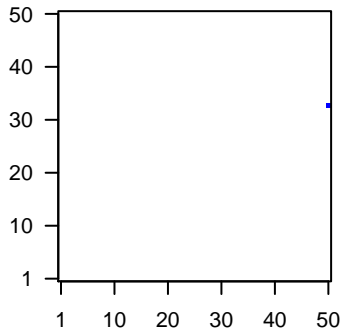
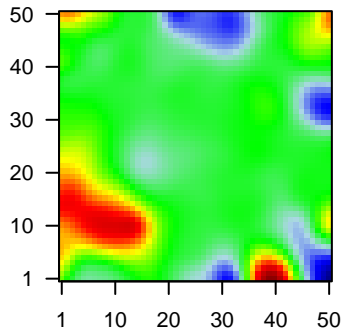
<shrinkage-t> = -8.64

<p-value> = 0.02

<fdr> = 0.77

Profile

Spot



## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	55958	-1.04	1e-10	1e-05	50 x 33 kelch-like family member 9 [Source:HGNC Symbol;Acc:1873
2	6139	-0.8	7e-07	4e-05	50 x 33 RPL17-C18orf32 readthrough [Source:HGNC Symbol;Acc:44
3	55074	-0.75	3e-06	3e-04	50 x 33 oxidation resistance 1 [Source:HGNC Symbol;Acc:15822]
4	221154	-0.69	2e-05	3e-04	50 x 33 mitochondrial calcium uptake 2 [Source:HGNC Symbol;Acc:3
5	23484	-0.67	3e-05	3e-04	50 x 33 leptin receptor overlapping transcript-like 1 [Source:HGNC S
6	51015	-0.65	5e-05	1e-01	50 x 33 isochorimatase domain containing 1 [Source:HGNC Symbol
7	4677	-0.43	8e-03	2e-01	50 x 33 asparaginyl-tRNA synthetase [Source:HGNC Symbol;Acc:76
8	153364	-0.38	2e-02	3e-01	50 x 33 metallo-beta-lactamase domain containing 2 [Source:HGNC
9	128338	-0.32	5e-02	3e-01	50 x 33 DNA-damage regulated autophagy modulator 2 [Source:HGT
10	115209	-0.3	6e-02	3e-01	50 x 33 OMA1 zinc metallopeptidase [Source:HGNC Symbol;Acc:296
11	317662	-0.28	8e-02	3e-01	50 x 33 family with sequence similarity 149, member B1 [Source:HGN
12	387921	-0.28	8e-02	3e-01	50 x 33 NHL repeat containing 3 [Source:HGNC Symbol;Acc:33751]
13	221294	-0.26	1e-01	3e-01	50 x 33 5'-nucleotidase domain containing 1 [Source:HGNC Symbol;
14	120534	-0.25	1e-01	3e-01	50 x 33 ADP-ribosylation factor-like 14 effector protein [Source:HGN
15	23588	0.24	1e-01	6e-01	50 x 33 kelch domain containing 2 [Source:HGNC Symbol;Acc:20231
16	200845	-0.21	2e-01	6e-01	50 x 33 potassium channel tetramerization domain containing 6 [Sour
17	7334	-0.2	2e-01	6e-01	50 x 33 ubiquitin-conjugating enzyme E2N [Source:HGNC Symbol;A
18	10224	-0.2	2e-01	1e+00	50 x 33 zinc finger protein 443 [Source:HGNC Symbol;Acc:20878]
19	8493	-0.19	2e-01	1e+00	50 x 33 protein phosphatase, Mg2+/Mn2+ dependent, 1D [Source:HC
20	29829	-0.14	4e-01	1e+00	50 x 33 ALG6, alpha-1,3-glucosyltransferase [Source:HGNC Symbo

## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-16.58	NULL	1 / 16	GSEA C2BERNARD_PPAPDC1B_TARGETS_UP
2	-16.55	NULL	1 / 10	CC large ribosomal subunit
3	-15.63	NULL	3 / 89	miRNA target-mir-3505
4	-14.75	NULL	1 / 11	BP cell wall macromolecule catabolic process
5	-13.25	NULL	1 / 24	CC Cui3-RING ubiquitin ligase complex
6	-11.35	NULL	1 / 15	GSEA C2DAIRKEE_TERT_TARGETS_DN
7	-10.95	NULL	1 / 16	GSEA C2HAHTOLA_MYCOSIS_FUNGOIDES_SKIN_DN
8	-10.95	NULL	1 / 16	GSEA C2ACEVEDO_NORMAL_TISSUE_ADJACENT_TO_LIVER_TUMOR
9	-10.64	NULL	1 / 16	Cancer GENTLES_modul11
10	-9.95	NULL	1 / 19	CC calcium channel complex
11	-8.96	NULL	1 / 49	miRNA target-mir-14201
12	-8.67	NULL	1 / 52	miRNA target-mir-3191
13	-8.67	NULL	3 / 61	miRNA target-mir-14200
14	-8.58	NULL	1 / 29	BP adult walking behavior
15	-8.02	NULL	1 / 60	BP cytokinesis
16	-8.02	NULL	1 / 60	miRNA target-mir-3083
17	-8.02	NULL	1 / 60	miRNA target-mir-320-5p
18	-7.94	NULL	1 / 61	miRNA target-mir-359
19	-7.8	NULL	1 / 63	miRNA target-mir-312
20	-7.74	NULL	1 / 64	miRNA target-mir-393
21	-7.31	NULL	1 / 71	miRNA target-mir-395
22	-7.3	NULL	1 / 14	GSEA C2REACTOME_CYTOSOLIC_TRNA_AMINOACYLATION
23	-6.88	NULL	2 / 39	miRNA target-mir-1458
24	-6.86	NULL	2 / 100	miRNA target-mir-337
25	-6.83	NULL	1 / 34	miRNA target-mir-355
26	-6.69	NULL	2 / 61	miRNA target-mir-394
27	-6.68	NULL	1 / 51	CC cytosolic large ribosomal subunit
28	-6.48	NULL	1 / 88	miRNA target-mir-428-5p
29	-6.48	NULL	1 / 39	miRNA target-mir-358
30	-6.46	NULL	3 / 113	miRNA target-mir-507
31	-5.95	NULL	1 / 12	BP apoptotic nuclear changes
32	-5.91	NULL	1 / 46	miRNA target-mir-1322
33	-5.9	NULL	1 / 104	CC midbody
34	-5.82	NULL	4 / 381	miRNA target-mir-795e
35	-5.65	NULL	1 / 22	miRNA target-mir-396
36	-5.59	NULL	3 / 109	miRNA target-mir-560-5p
37	-5.51	NULL	1 / 23	miRNA target-mir-600
38	-5.48	NULL	4 / 421	miRNA target-mir-795e
39	-5.43	NULL	3 / 315	miRNA target-mir-35e
40	-5.29	NULL	1 / 69	miRNA target-mir-35a

