

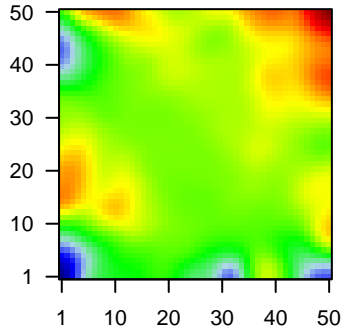
# GW\_296

## Global Summary

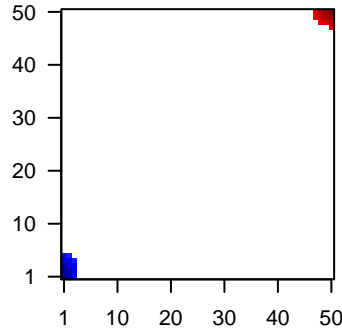
%DE = 0.14  
 # genes with fdr < 0.2 = 1809 ( 878 + / 931 - )  
 # genes with fdr < 0.1 = 1256 ( 593 + / 663 - )  
 # genes with fdr < 0.05 = 1024 ( 474 + / 550 - )  
 # genes with fdr < 0.01 = 737 ( 326 + / 411 - )  
 # genes in genesets = 16332

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

Profile



Regulated Spots



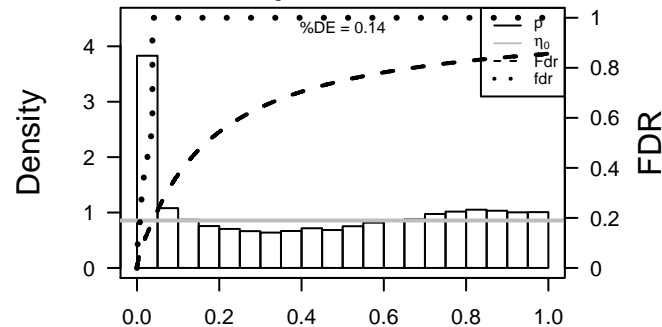
## Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	13	1.57	2e-16	4e-14	10 x 50 arylacetamide deacetylase [Source:HGNC Symbol;Acc:17]
2	10551	1.76	2e-16	4e-14	50 x 10 anterior gradient 2 [Source:HGNC Symbol;Acc:328]
3	155465	1.55	2e-16	4e-14	50 x 10 anterior gradient 3 [Source:HGNC Symbol;Acc:24167]
4	10840	1.71	2e-16	4e-14	50 x 12 aldehyde dehydrogenase 1 family, member L1 [Source:HGNC]
5	501	-1.58	2e-16	4e-14	6 x 46 aldehyde dehydrogenase 7 family, member A1 [Source:HGNC]
6	241	-1.48	2e-16	4e-14	50 x 1 arachidonate 5-lipoxygenase-activating protein [Source:HGNC]
7	353322	-1.65	2e-16	4e-14	6 x 48 ankyrin repeat domain 37 [Source:HGNC Symbol;Acc:29593]
8	151516	1.88	2e-16	4e-14	1 x 46 aspartic peptidase, retroviral-like 1 [Source:HGNC Symbol;Acc:11752]
9	10409	-1.54	2e-16	4e-14	1 x 2 brain abundant, membrane attached signal protein 1 [Source:HGNC Symbol;Acc:11752]
10	664	-1.54	2e-16	4e-14	2 x 43 BCL2/adenovirus E1B 19kDa interacting protein 3 [Source:HGNC Symbol;Acc:11752]
11	339512	2.24	2e-16	4e-14	50 x 50 chromosome 1 open reading frame 110 [Source:HGNC Symbol;Acc:11752]
12	260436	-1.56	2e-16	4e-14	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbol;Acc:11752]
13	760	-2.08	2e-16	4e-14	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
14	51806	2.48	2e-16	4e-14	4 x 50 calmodulin-like 5 [Source:HGNC Symbol;Acc:18180]
15	84290	1.54	2e-16	4e-14	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
16	131076	2.28	2e-16	4e-14	1 x 16 coiled-coil domain containing 58 [Source:HGNC Symbol;Acc:11752]
17	414062	-1.59	2e-16	4e-14	1 x 1 chemokine (C-C motif) ligand 3-like 3 [Source:HGNC Symbol;Acc:11752]
18	4680	2.06	2e-16	4e-14	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (type 1) [Source:HGNC Symbol;Acc:11752]
19	1056	1.67	2e-16	4e-14	50 x 50 carboxyl ester lipase [Source:HGNC Symbol;Acc:1848]
20	1675	1.67	2e-16	4e-14	50 x 9 complement factor D (adipsin) [Source:HGNC Symbol;Acc:27]

## Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	9.54	NULL	914	Chr Chr 3
2	9.41	NULL	743	Chr Chr 7
3	9.09	NULL	4	MMML C6SCIEJ_MMML 23
4	8.13	NULL	1318	CC mitochondrion
5	7.31	NULL	152	BP cellular metabolic process
6	7.12	NULL	8	GSEA C2RUNNE_GENDER_EFFECT_UP
7	6.69	NULL	83	BP respiratory electron transport chain
8	6.61	NULL	7	MMML C6SCIEJ_MMML 5
9	6.47	NULL	229	BP RNA splicing
10	6.24	NULL	304	CC mitochondrial inner membrane
11	6.15	NULL	20	Lymphoma C6SOSLOWSKI_red UP
12	6.08	NULL	10	CC hemoglobin complex
13	6	NULL	15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
14	5.77	NULL	717	Chr Chr 16
15	5.54	NULL	630	Chr Chr X
16	5.46	NULL	15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
17	5.46	NULL	940	MF nucleic acid binding
18	5.3	NULL	34	Chr Chr Y
19	5.27	NULL	163	BP mRNA splicing, via spliceosome
20	5.13	NULL	11	MF oxygen transporter activity
<i>Underexpressed</i>				
1	-15.89	NULL	553	Cancer Lembecke_Colonc Inflammation
2	-14.6	NULL	633	Chr Chr 9
3	-11.85	NULL	250	Lymphoma C6ENZ_Stromal signature 1
4	-11.33	NULL	242	BP extracellular matrix organization
5	-11.19	NULL	69	BP extracellular matrix disassembly
6	-11.07	NULL	64	BP collagen catabolic process
7	-10.8	NULL	683	CC extracellular space
8	-10.59	NULL	1182	CC extracellular region
9	-10.45	NULL	312	BP immune response
10	-9.55	NULL	265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
11	-9.55	NULL	265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
12	-9.55	NULL	265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
13	-9.55	NULL	265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
14	-9.39	NULL	190	CC extracellular matrix
15	-9.38	NULL	572	Disease GUDJ_poriasis up
16	-9.07	NULL	51	BP type I interferon signaling pathway
17	-8.93	NULL	15	GSEA C2CROMER_TUMORIGENESIS_UP
18	-8.47	NULL	12	GSEA C2ZHU_CMV_8_HR_UP
19	-8.21	NULL	16	GSEA C2UROSEVIC_RESPONSE_TO_IMIQUIMOD
20	-8.19	NULL	60	BP interferon-gamma-mediated signaling pathway

p-values



# GW\_296

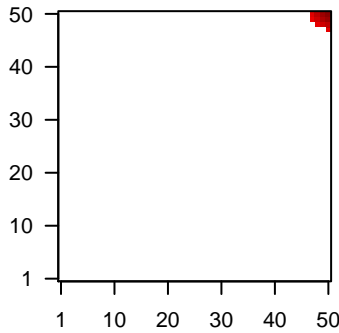
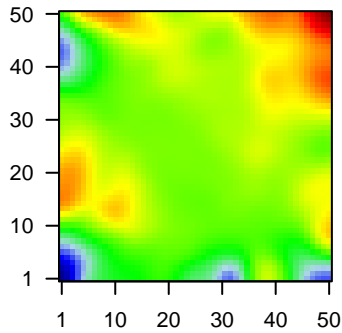
## Local Summary

%DE = 0.63  
 # metagenes = 12  
 # genes = 188  
 # genes in genesets = 187  
 # genes with  $fdr < 0.1$  = 87 ( 74 + / 13 - )  
 # genes with  $fdr < 0.05$  = 81 ( 70 + / 11 - )  
 # genes with  $fdr < 0.01$  = 61 ( 54 + / 7 - )

<r> metagenes = 0.97  
 <r> genes = 0.28  
 <FC> = 0.4  
 <shrinkage-t> = 14.09  
 <p-value> = 0  
 <fdr> = 0.52

Profile

Spot



## Local Genelist

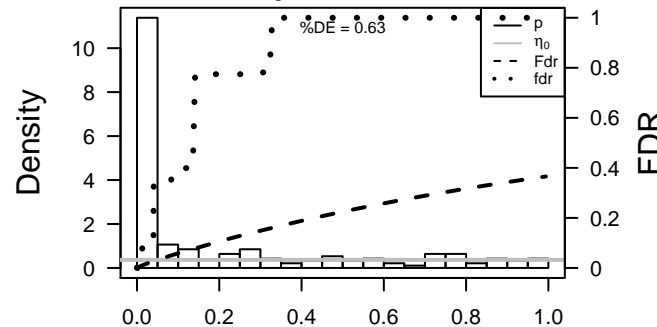
Rank	ID	log(FC)	fdr	p-value	Description
1	339512	2.24	2e-16	1e-15	50 x 50 chromosome 1 open reading frame 110 [Source:HGNC Symt
2	1056	1.67	2e-16	1e-15	50 x 50 carboxyl ester lipase [Source:HGNC Symbol;Acc:1848]
3	4072	1.53	2e-16	1e-15	50 x 50 epithelial cell adhesion molecule [Source:HGNC Symbol;Acc:
4	83888	1.82	2e-16	1e-15	50 x 50 fibroblast growth factor binding protein 2 [Source:HGNC Sym]
5	2938	2.1	2e-16	1e-15	50 x 50 glutathione S-transferase alpha 2 [Source:HGNC Symbol;Ac
6	10643	1.57	2e-16	1e-15	48 x 50 insulin-like growth factor 2 mRNA binding protein 3 [Source:†
7	3880	2.55	2e-16	1e-15	50 x 49 keratin 19 [Source:HGNC Symbol;Acc:6436]
8	3856	2.52	2e-16	1e-15	50 x 48 keratin 8 pseudogene 3 [Source:HGNC Symbol;Acc:31056]
9	4922	2.93	2e-16	1e-15	50 x 50 neurotensin [Source:HGNC Symbol;Acc:8038]
10	11166	1.88	2e-16	1e-15	50 x 50 SRY (sex determining region Y)-box 21 [Source:HGNC Symt
11	7348	1.98	2e-16	1e-15	50 x 50 uroplakin 1B [Source:HGNC Symbol;Acc:12578]
12	655	1.45	9e-16	2e-13	50 x 50 bone morphogenetic protein 7 [Source:HGNC Symbol;Acc:1C
13	200810	1.41	4e-15	4e-12	49 x 50 ALG1, chitobiosylidiphosphodolichol beta-mannosyltransferas
14	57526	1.35	6e-14	7e-12	50 x 50 protocadherin 19 [Source:HGNC Symbol;Acc:14270]
15	9076	1.33	2e-13	4e-11	49 x 50 claudin 1 [Source:HGNC Symbol;Acc:2032]
16	25975	1.29	7e-13	3e-10	48 x 50 EGF-like-domain, multiple 6 [Source:HGNC Symbol;Acc:32c
17	256764	1.24	5e-12	7e-10	50 x 50 WD repeat domain 72 [Source:HGNC Symbol;Acc:26790]
18	216	1.21	2e-11	7e-10	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGN
19	84707	1.2	3e-11	9e-10	50 x 48 brain expressed X-linked 2 [Source:HGNC Symbol;Acc:3093
20	2222	1.19	4e-11	4e-09	50 x 50 farnesyl-diphosphate farnesyltransferase 1 [Source:HGNC S

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	24.33	NULL	4 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
2	20.63	NULL	3 / 8	GSEA C2LIU_CDX2_TARGETS_DN
3	20.05	NULL	2 / 7	GSEA C2MCCOLLUM_GELDANAMYCIN_RESISTANCE_DN
4	11.89	NULL	1 / 11	Glio neurons_glio
5	10.32	NULL	1 / 11	GSEA C2WHITESIDE_CISPLATIN_RESISTANCE_DN
6	10.16	NULL	3 / 6	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_7
7	10.13	NULL	47 / 914	Chr Chr 3
8	10.07	NULL	3 / 13	BP regulation of blood vessel size
9	9.97	NULL	1 / 15	MF neuropeptide hormone activity
10	9.38	NULL	1 / 13	GSEA C2CHEN_LUNG_CANCER_SURVIVAL
11	9.37	NULL	2 / 16	GSEA C2KEGG_STEROID_BIOSYNTHESIS
12	9.23	NULL	2 / 7	GSEA C2FREDERICK_PRKCI_TARGETS
13	9.1	NULL	3 / 11	GSEA C2TO_PTTG1_TARGETS_UP
14	8.99	NULL	1 / 14	GSEA C2JIANG_SILENCED_BY_METHYLATION_UP
15	8.94	NULL	1 / 2	miRNA target-127
16	8.64	NULL	1 / 15	GSEA C2LEE_SKI_TARGETS_UP
17	8.64	NULL	1 / 15	GSEA C2LEE_LIVER_CANCER_HEPATOBLAST
18	8.44	NULL	3 / 12	GSEA C2BROCKE_APOPTOSIS_REVERSED_BY_IL6
19	8.33	NULL	1 / 16	CC dystrophin-associated glycoprotein complex
20	8.33	NULL	1 / 16	GSEA C2DORN_ADENOVIRUS_INFECTION_12HR_UP
21	8.3	NULL	2 / 18	CC costamere
22	8.07	NULL	1 / 8	GSEA C2KEGG_GLYCEROLIPID_METABOLISM
23	7.96	NULL	5 / 20	MF glutathione transferase activity
24	7.86	NULL	2 / 10	GSEA C2HANN_RESISTANCE_TO_BCL2_INHIBITOR_DN
25	7.6	NULL	1 / 12	GSEA C2AZARD_RESPONSE_TO_UV_SCC_UP
26	7.58	NULL	2 / 10	BP biotin metabolic process
27	7.35	NULL	1 / 5	GSEA C2TURASHVILI_BREAST_CARCINOMA_DUCTAL_VS_LOBULAR_
28	7.33	NULL	8 / 34	BP glutathione metabolic process
29	7.33	NULL	1 / 11	GSEA C2YAMANAKA_GLIOBLASTOMA_SURVIVAL_UP
30	7.32	NULL	2 / 23	BP stem cell differentiation
31	7.28	NULL	2 / 15	GSEA C2ODONNELL_TFRC_TARGETS_UP
32	7.15	NULL	3 / 9	GSEA C2BROWNE_HCMV_INFECTION_8HR_UP
33	7.13	NULL	1 / 21	BP sarcomere organization
34	7.02	NULL	3 / 15	BP lipid glycosylation
35	7	NULL	4 / 15	GSEA C2REACTOME_GlutATHIONE_CONJUGATION
36	6.96	NULL	1 / 8	GSEA C2MCCABE_HOXC6_TARGETS_UP
37	6.95	NULL	1 / 14	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_D
38	6.95	NULL	1 / 14	GSEA C2LOPEZ_EPITHELIOID_MESOTHELIOMA
39	6.91	NULL	2 / 38	BP epithelial cell differentiation
40	6.86	NULL	1 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_DN

p-values



# GW\_296

## Local Summary

%DE = 0.86  
 # metagenes = 14  
 # genes = 221  
 # genes in genesets = 219

# genes with  $fdr < 0.1$  = 167 ( 8 + / 159 - )  
 # genes with  $fdr < 0.05$  = 165 ( 8 + / 157 - )  
 # genes with  $fdr < 0.01$  = 122 ( 5 + / 117 - )

<r> metagenes = 0.97  
 <r> genes = 0.38

<FC> = -0.61  
 <shrinkage-t> = -21.33  
 <p-value> = 0  
 <fdr> = 0.32

## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	10409	-1.54	2e-16	7e-16	1 x 2 brain abundant, membrane attached signal protein 1 [Source:HGNC Symbol;Acc:11251]
2	414062	-1.59	2e-16	7e-16	1 x 1 chemokine (C-C motif) ligand 3-like 3 [Source:HGNC Symbol;Acc:11251]
3	4312	-1.66	2e-16	7e-16	1 x 1 matrix metalloproteinase 1 (interstitial collagenase) [Source:HGNC Symbol;Acc:11251]
4	4314	-1.91	2e-16	7e-16	1 x 1 matrix metalloproteinase 3 (stromelysin 1, progelatinase) [Source:HGNC Symbol;Acc:11251]
5	4316	-1.67	2e-16	7e-16	2 x 1 matrix metalloproteinase 7 (matrilysin, uterine) [Source:HGNC Symbol;Acc:11251]
6	4318	-1.73	2e-16	7e-16	1 x 1 matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type I collagenase) [Source:HGNC Symbol;Acc:11251]
7	55714	-1.52	2e-16	7e-16	1 x 1 teneurin transmembrane protein 3 [Source:HGNC Symbol;Acc:11251]
8	6515	-1.64	2e-16	7e-16	3 x 1 solute carrier family 2 (facilitated glucose transporter), member 1 [Source:HGNC Symbol;Acc:11251]
9	6696	-1.56	2e-16	7e-16	2 x 1 secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:11251]
10	7045	-1.66	2e-16	7e-16	1 x 2 transforming growth factor, beta-induced, 68kDa [Source:HGNC Symbol;Acc:11251]
11	1277	-1.46	4e-16	2e-13	2 x 1 collagen, type I, alpha 1 [Source:HGNC Symbol;Acc:2197]
12	7057	-1.39	1e-14	2e-13	1 x 1 thrombospondin 1 [Source:HGNC Symbol;Acc:11785]
13	5743	-1.39	1e-14	9e-13	1 x 1 prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase) [Source:HGNC Symbol;Acc:2213]
14	1293	-1.36	4e-14	2e-12	2 x 1 collagen, type VI, alpha 3 [Source:HGNC Symbol;Acc:2213]
15	3569	-1.33	1e-13	3e-12	1 x 1 interleukin 6 (interferon, beta 2) [Source:HGNC Symbol;Acc:2213]
16	25907	-1.32	2e-13	4e-12	1 x 1 transmembrane protein 158 (gene/pseudogene) [Source:HGNC Symbol;Acc:2213]
17	12	-1.3	4e-13	4e-12	1 x 1
18	10630	-1.29	7e-13	4e-12	1 x 2 podoplanin [Source:HGNC Symbol;Acc:29602]
19	4478	-1.29	7e-13	4e-12	1 x 5 moesin [Source:HGNC Symbol;Acc:7373]
20	1289	-1.29	8e-13	1e-11	2 x 1 collagen, type V, alpha 1 [Source:HGNC Symbol;Acc:2209]

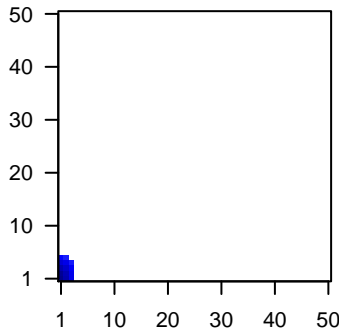
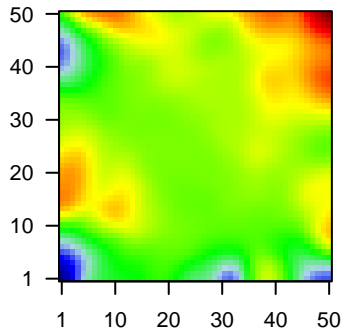
## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-35.49	NULL	11 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
2	-34.73	NULL	56 / 242	BP extracellular matrix organization
3	-32.61	NULL	24 / 64	BP collagen catabolic process
4	-32.53	NULL	25 / 69	BP extracellular matrix disassembly
5	-31.49	NULL	46 / 190	CC extracellular matrix
6	-29.2	NULL	14 / 16	MMML C6SCIEJ_MMML_1
7	-27.73	NULL	7 / 11	MF platelet-derived growth factor binding
8	-26.49	NULL	58 / 250	Lymphocyte_HNF1B_Enz_Stromal signature 1
9	-24.5	NULL	7 / 12	miRNA target-29c
10	-23.63	NULL	3 / 6	GSEA C2AGARWAL_AKT_PATHWAY_TARGETS
11	-22.44	NULL	6 / 10	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C4
12	-22.12	NULL	11 / 35	Glio Colman_survival_associated
13	-20.87	NULL	6 / 15	GSEA C2LEE_LIVER_CANCER_HEPATOBLAST
14	-20.45	NULL	6 / 13	GSEA C2TAI_RESPONSE_TO_RADIATION_THERAPY
15	-20.04	NULL	31 / 183	CC proteinaceous extracellular matrix
16	-19.87	NULL	4 / 10	GSEA C2JEON_SMAD6_TARGETS_UP
17	-19.57	NULL	8 / 19	MF extracellular matrix binding
18	-19.3	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
19	-19.3	NULL	65 / 683	CC extracellular space
20	-19.26	NULL	16 / 57	MF extracellular matrix structural constituent
21	-19.04	NULL	6 / 15	GSEA C2DASU_IL6_SIGNALING_SCAR_DN
22	-18.93	NULL	10 / 40	BP cellular response to amino acid stimulus
23	-18.84	NULL	5 / 10	GSEA C2KEGG_ECM_RECEPTOR_INTERACTION
24	-18.75	NULL	13 / 37	BP collagen fibril organization
25	-18.72	NULL	86 / 1182	CC extracellular region
26	-18.68	NULL	4 / 7	GSEA C2WANG_ESOPHAGUS_CANCER_PROGRESSION_UP
27	-18.62	NULL	8 / 16	GSEA C2ROZANOV_MMP14_TARGETS_SUBSET
28	-17.89	NULL	5 / 11	Glio Phillips MES up vs Prolif & PN
29	-17.79	NULL	6 / 16	GSEA C2U_TUMOR_VASCULATURE_UP
30	-17.14	NULL	6 / 13	GSEA C2FRIDMAN_SENESCENCE_UP
31	-17.1	NULL	18 / 83	CC basement membrane
32	-16.98	NULL	5 / 16	GSEA C2JRS_ADIPOCYTE_DIFFERENTIATION_DN
33	-16.74	NULL	6 / 16	GSEA C2AMIT_EGF_RESPONSE_60_MCF10A
34	-16.64	NULL	6 / 16	GSEA C2CROONQUIST_STROMAL_STIMULATION_UP
35	-16.62	NULL	35 / 265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
36	-16.62	NULL	35 / 265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
37	-16.62	NULL	35 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
38	-16.62	NULL	35 / 265	Glio wilscher_GBM_Verhaak-PNmut_expression_B_down
39	-16.58	NULL	4 / 5	GSEA C2COLLER_MYC_TARGETS_DN
40	-16.16	NULL	4 / 11	GSEA C2BIOCARTA_PLATELETAPP_PATHWAY

Profile

Spot



p-values

