

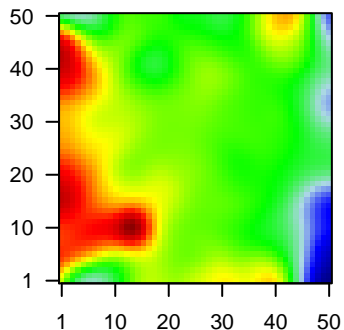
# GW\_018

## Global Summary

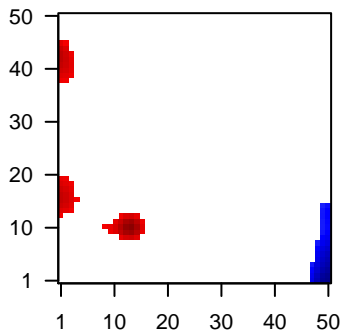
%DE = 0.13  
 # genes with fdr < 0.2 = 1564 ( 781 + / 783 - )  
 # genes with fdr < 0.1 = 1108 ( 550 + / 558 - )  
 # genes with fdr < 0.05 = 864 ( 431 + / 433 - )  
 # genes with fdr < 0.01 = 653 ( 329 + / 324 - )  
 # genes in genesets = 16332

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

Profile



Regulated Spots



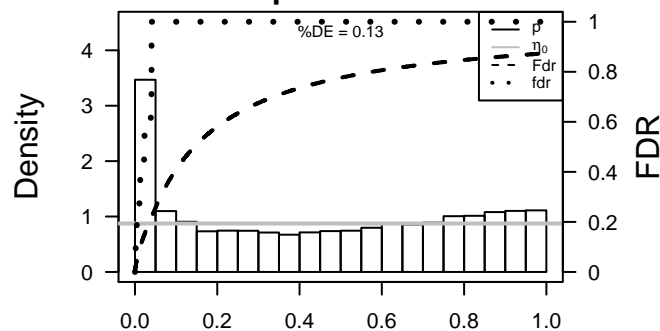
## Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	131	-2.69	2e-16	5e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
2	218	-2.32	2e-16	5e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC]
3	810	-2.01	2e-16	5e-14	1 x 50 calmodulin-like 3 [Source:HGNC Symbol;Acc:1452]
4	51806	-1.83	2e-16	5e-14	4 x 50 calmodulin-like 5 [Source:HGNC Symbol;Acc:18180]
5	57172	-2.31	2e-16	5e-14	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG]
6	1041	2.22	2e-16	5e-14	1 x 46 corneodesmosin [Source:HGNC Symbol;Acc:1802]
7	1675	1.86	2e-16	5e-14	50 x 9 complement factor D (adipsin) [Source:HGNC Symbol;Acc:27]
8	22802	-2.21	2e-16	5e-14	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20]
9	1281	-1.71	2e-16	5e-14	2 x 1 collagen, type III, alpha 1 [Source:HGNC Symbol;Acc:2201]
10	49860	-2.67	2e-16	5e-14	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
11	441520	3.1	2e-16	5e-14	14 x 11 cancer/testis antigen family 45, member A2 [Source:HGNC S]
12	55894	1.8	2e-16	5e-14	1 x 47 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
13	414325	1.91	2e-16	5e-14	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
14	1809	-1.96	2e-16	5e-14	6 x 1 dihydropyrimidinase-like 3 [Source:HGNC Symbol;Acc:3015]
15	1917	1.82	2e-16	5e-14	25 x 1 eukaryotic translation elongation factor 1 alpha 2 [Source:HG]
16	2152	1.98	2e-16	5e-14	1 x 43 coagulation factor III (thromboplastin, tissue factor) [Source:H]
17	2201	1.76	2e-16	5e-14	1 x 5 fibrillin 2 [Source:HGNC Symbol;Acc:3604]
18	8857	-1.87	2e-16	5e-14	50 x 13 Fc fragment of IgG binding protein [Source:HGNC Symbol;Ac
19	2312	2.63	2e-16	5e-14	1 x 49 filaggrin [Source:HGNC Symbol;Acc:3748]
20	2318	1.96	2e-16	5e-14	25 x 1 filamin C, gamma [Source:HGNC Symbol;Acc:3756]

## Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	9.65	NULL	1135	Chr Chr 19
2	8.39	NULL	530	Cancer Lembecke_Normal vs Adenoma
3	7.51	NULL	142	Glio wilscher_GBM_Verhaak-CL_expression_C_up
4	7.51	NULL	142	Glio wilscher_GBM_Verhaak-PNmut_expression_C_down
5	7.14	NULL	6	GSEA C2SEIKE_LUNG_CANCER_POOR_SURVIVAL
6	7.02	NULL	4	MMML C6SCIEJ_MMML 23
7	6.88	NULL	8	GSEA C2NIKOLSKY_BREAST_CANCER_5P15_AMPLICON
8	6.64	NULL	572	Disease GUDJ_poriasis up
9	5.98	NULL	21	CC cornified envelope
10	5.57	NULL	15	MF interleukin-1 receptor binding
11	5.34	NULL	10	GSEA C2BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
12	5.29	NULL	4	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_DN
13	5.29	NULL	1720	Chr Chr 1
14	5.26	NULL	76	BP epidermis development
15	5.12	NULL	13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
16	5.1	NULL	16	GSEA C2X_HGF_TARGETS_INDUCED_BY_AKT1_6HR
17	5.08	NULL	12	BP hemidesmosome assembly
18	5.05	NULL	9	GSEA C2HEDVAT_ELF4_TARGETS_UP
19	5	NULL	11	MF substrate-specific transmembrane transporter activity
20	4.9	NULL	10	CC hemoglobin complex
<i>Underexpressed</i>				
1	-10.32	NULL	250	LymphoidENZ_Stromal signature 1
2	-10.2	NULL	15	CC MHC class II protein complex
3	-9	NULL	553	Cancer Lembecke_Colonc Inflammation
4	-8.46	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
5	-7.85	NULL	1033	Chr Chr 2
6	-7.81	NULL	417	H.Tiss WIRTH_Immune system
7	-7.47	NULL	190	CC extracellular matrix
8	-7.35	NULL	602	Chr Chr 10
9	-7.08	NULL	16	MMML C6SCIEJ_MMML 1
10	-6.85	NULL	13	GSEA C2INDGREN_BLADDER_CANCER_CLUSTER_2B
11	-6.48	NULL	119	BP xenobiotic metabolic process
12	-6.41	NULL	463	miRNA target starBase
13	-6.33	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
14	-6.18	NULL	47	BP antigen processing and presentation
15	-6.14	NULL	12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN
16	-6.06	NULL	456	miRNA target starBase
17	-5.91	NULL	9	GSEA C2REACTOME_ETHANOL_OXIDATION
18	-5.71	NULL	232	Chr Chr 18
19	-5.64	NULL	6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
20	-5.63	NULL	449	miRNA target starBase

p-values



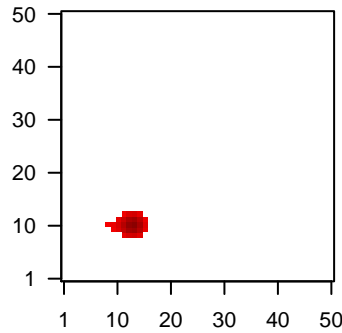
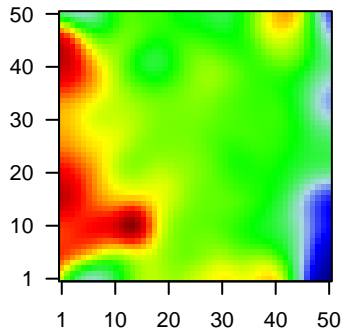
# GW\_018

## Local Summary

%DE = 0.6  
 # metagenes = 29  
 # genes = 143  
 # genes in genesets = 118  
  
 # genes with  $fdr < 0.1$  = 62 ( 61 + / 1 - )  
 # genes with  $fdr < 0.05$  = 61 ( 60 + / 1 - )  
 # genes with  $fdr < 0.01$  = 48 ( 48 + / 0 - )  
  
 $\langle r \rangle$  metagenes = 0.91  
 $\langle r \rangle$  genes = 0.22  
  
 $\langle FC \rangle = 0.67$   
 $\langle \text{shrinkage-t} \rangle = 23.46$   
 $\langle p\text{-value} \rangle = 0$   
 $\langle fdr \rangle = 0.53$

Profile

Spot



## Local Genelist

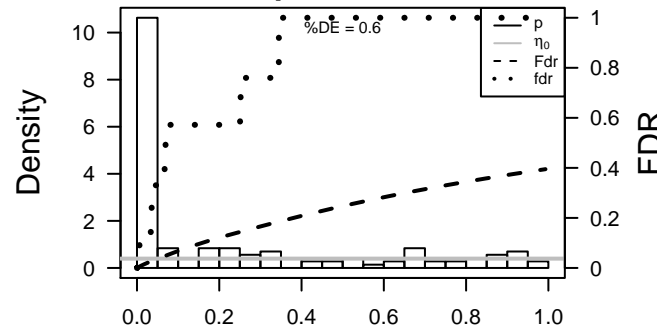
Rank	ID	log(FC)	fdr	p-value	Description
1	441520	3.1	2e-16	7e-16	14 x 11 cancer/testis antigen family 45, member A2 [Source:HGNC S
2	729428	2.54	2e-16	7e-16	14 x 11 G antigen 12C [Source:HGNC Symbol;Acc:28402]
3	729422	2.75	2e-16	7e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
4	100008586	2.43	2e-16	7e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
5	645073	2.56	2e-16	7e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
6	729442	2.74	2e-16	7e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
7	26748	2.07	2e-16	7e-16	14 x 11 G antigen 12I [Source:HGNC Symbol;Acc:4105]
8	729396	2.07	2e-16	7e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
9	729447	2.16	2e-16	7e-16	14 x 11 G antigen 2A [Source:HGNC Symbol;Acc:4099]
10	645037	2.91	2e-16	7e-16	14 x 11 G antigen 2C [Source:HGNC Symbol;Acc:31958]
11	26749	2.08	2e-16	7e-16	14 x 11 G antigen 2E [Source:HGNC Symbol;Acc:31960]
12	2576	2.62	2e-16	7e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
13	2577	2.28	2e-16	7e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
14	4100	2.29	2e-16	7e-16	14 x 11 melanoma antigen family A, 1 (directs expression of antigen I
15	4109	3.11	2e-16	7e-16	14 x 11 melanoma antigen family A, 10 [Source:HGNC Symbol;Acc:6
16	4103	1.77	2e-16	7e-16	14 x 10 melanoma antigen family A, 4 [Source:HGNC Symbol;Acc:68
17	653219	2.43	2e-16	7e-16	14 x 11 X antigen family, member 1B [Source:HGNC Symbol;Acc:254
18	84944	1.71	2e-15	8e-13	15 x 11 maelstrom spermatogenic transposon silencer [Source:HGN
19	100101629	1.64	2e-14	8e-13	14 x 11 G antigen 2E [Source:HGNC Symbol;Acc:31960]
20	653048	1.63	3e-14	3e-11	14 x 11 X antigen family, member 1B [Source:HGNC Symbol;Acc:254

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	15.46	NULL	30 / 630	Chr Chr X
2	14.8	NULL	1 / 11	GSEA C2S1_PLACENTA
3	12.87	NULL	1 / 14	GSEA C2NIELSEN_GIST
4	12.27	NULL	2 / 15	GSEA C2BROWNE_HCMV_INFECTION_8HR_DN
5	8.53	NULL	1 / 10	BP piRNA metabolic process
6	8.53	NULL	1 / 10	CC XY body
7	8.45	NULL	3 / 15	GSEA C2MATTIOLI_MULTIPLE_MYELOMA_SUBGROUPS
8	8.07	NULL	1 / 6	GSEA C2NIELSEN_LEIOMYOSARCOMA_UP
9	8.06	NULL	1 / 11	BP regulation of organ growth
10	7.44	NULL	1 / 21	BP negative regulation of Notch signaling pathway
11	7.3	NULL	1 / 13	BP synapsis
12	7.24	NULL	1 / 14	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_B
13	6.98	NULL	1 / 14	BP DNA methylation involved in gamete generation
14	6.85	NULL	1 / 5	GSEA C2CHOI_ATL_ACUTE_STAGE
15	6.76	NULL	1 / 2	GSEA C2KUROKAWA_LIVER_CANCER_EARLY_RECURRENCE_UP
16	6.7	NULL	1 / 4	GSEA C2WEBER_METHYLATED_ICP_IN_SPERM_DN
17	6.14	NULL	1 / 12	GSEA C2RAY_TARGETS_OF_P210_BCR_ABL_FUSION_UP
18	5.75	NULL	2 / 8	GSEA C2WEBER_METHYLATED_ICP_IN_FIBROBLAST
19	5.18	NULL	2 / 22	BP male meiosis
20	5.17	NULL	3 / 21	BP chromatin organization
21	5.15	NULL	1 / 6	GSEA C2NIELSEN_GIST_VS_SYNOVIAL_SARCOMA_UP
22	4.99	NULL	1 / 8	GSEA C2HEIDENBLAD_AMPLIFIED_IN_PANCREATIC_CANCER
23	4.94	NULL	2 / 68	MF histone deacetylase binding
24	4.86	NULL	9 / 120	H.Tiss WIRTH_Testis
25	4.72	NULL	1 / 27	BP gene silencing by RNA
26	4.67	NULL	1 / 7	GSEA C2NIELSEN_SYNOVIAL_SARCOMA_UP
27	4.43	NULL	1 / 10	GSEA C2SUNODA_CISPLATIN_RESISTANCE_DN
28	4.23	NULL	9 / 419	CC cellular_component
29	4.21	NULL	2 / 10	GSEA C2XU_GH1_AUTOCRINE_TARGETS_DN
30	4.2	NULL	2 / 13	CC STAGA complex
31	4.18	NULL	1 / 33	BP fertilization
32	4	NULL	1 / 15	GSEA C2KEGG_INOSITOL_PHOSPHATE_METABOLISM
33	3.91	NULL	1 / 12	GSEA C2HOSHIDA_LIVER_CANCER_SURVIVAL_UP
34	3.88	NULL	1 / 12	MF calcium-dependent cysteine-type endopeptidase activity
35	3.88	NULL	1 / 12	miRNA target sites 3p
36	3.88	NULL	11 / 481	BP biological_process
37	3.8	NULL	2 / 16	GSEA C2DAVICIONI_TARGETS_OF_PAX_FOXP1_FUSIONS_DN
38	3.72	NULL	1 / 10	BP paraxial mesoderm development
39	3.7	NULL	1 / 12	GSEA C2HO_LIVER_CANCER_VASCULAR_INVASION
40	3.59	NULL	2 / 48	Cancer KUIPER_MM poor survival

p-values



# GW\_018

## Local Summary

%DE = 0.67  
 # metagenes = 22  
 # genes = 277  
 # genes in genesets = 276

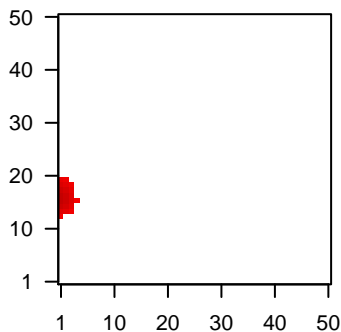
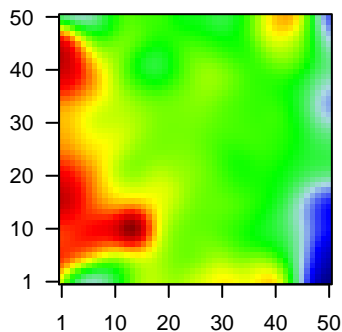
# genes with  $fdr < 0.1 = 105$  ( 105 + / 0 - )  
 # genes with  $fdr < 0.05 = 90$  ( 90 + / 0 - )  
 # genes with  $fdr < 0.01 = 35$  ( 35 + / 0 - )

<r> metagenes = 0.95  
 <r> genes = 0.29

<FC> = 0.37  
 <shrinkage-t> = 13.05  
 <p-value> = 0.03  
 <fdr> = 0.69

Profile

Spot



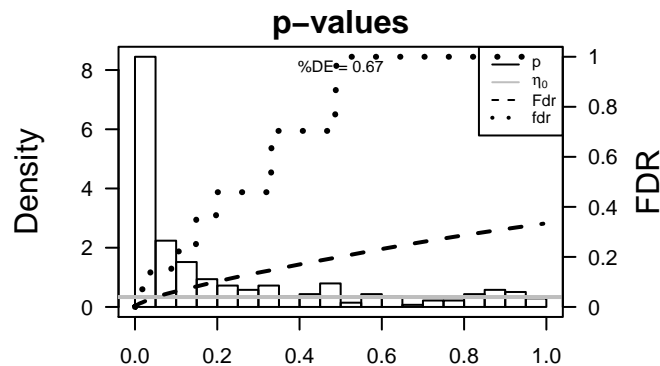
## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	51083	2	2e-16	2e-14	1 x 15 galanin/GMAP prepropeptide [Source:HGNC Symbol;Acc:41'
2	10202	1.51	2e-12	8e-06	1 x 15 dehydrogenase/reductase (SDR family) member 2 [Source:HG
3	23246	1.13	2e-07	8e-06	1 x 16 block of proliferation 1 [Source:HGNC Symbol;Acc:15519]
4	6535	1.13	2e-07	9e-06	1 x 16 solute carrier family 6 (neurotransmitter transporter), member
5	4728	1.11	3e-07	2e-04	2 x 17 NADH dehydrogenase (ubiquinone) Fe-S protein 8, 23kDa (†
6	1152	1.02	2e-06	3e-04	1 x 17 creatine kinase, brain [Source:HGNC Symbol;Acc:1991]
7	430	0.95	1e-05	3e-04	2 x 20 achaete-scute family bHLH transcription factor 2 [Source:HG
8	92856	0.94	1e-05	3e-04	1 x 18 IMP4, U3 small nucleolar ribonucleoprotein, homolog (yeast)
9	3237	0.94	1e-05	3e-04	1 x 16 homeobox D11 [Source:HGNC Symbol;Acc:5134]
10	219931	0.93	1e-05	4e-04	1 x 14 two pore segment channel 2 [Source:HGNC Symbol;Acc:208
11	2194	0.91	2e-05	4e-04	1 x 17 fatty acid synthase [Source:HGNC Symbol;Acc:3594]
12	131076	0.91	3e-05	4e-04	1 x 16 coiled-coil domain containing 58 [Source:HGNC Symbol;Acc
13	10428	0.9	3e-05	1e-03	1 x 15 craniofacial development protein 1 [Source:HGNC Symbol;Ac
14	7407	0.87	5e-05	1e-03	3 x 15 valyl-tRNA synthetase [Source:HGNC Symbol;Acc:12651]
15	7422	0.84	9e-05	1e-03	1 x 13 vascular endothelial growth factor A [Source:HGNC Symbol;A
16	81037	0.84	1e-04	1e-03	1 x 14 CLPTM1-like [Source:HGNC Symbol;Acc:24308]
17	2932	0.83	1e-04	1e-03	1 x 17 glycogen synthase kinase 3 beta [Source:HGNC Symbol;Acc
18	51042	0.83	1e-04	1e-03	1 x 19 zinc finger protein 593 [Source:HGNC Symbol;Acc:30943]
19	113655	0.83	1e-04	1e-03	1 x 18 major facilitator superfamily domain containing 3 [Source:HGI
20	55257	0.82	1e-04	1e-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	14.78	NULL	2 / 7	GSEA C2CAFFAREL_RESPONSE_TO_THC_24HR_5_UP
2	13.43	NULL	1 / 6	GSEA C2REACTOME_CLASS_A1_RHODOPSIN_LIKE_RECEPTORS
3	13.43	NULL	1 / 6	GSEA C2REACTOME_GPCR_LIGAND_BINDING
4	12.77	NULL	2 / 10	GSEA C2ZHU_CMV_24_HR_UP
5	12.77	NULL	2 / 10	GSEA C2ZHU_CMV_ALL_UP
6	12.34	NULL	1 / 7	GSEA C2REACTOME_PEPTIDE_LIGAND_BINDING_RECEPTORS
7	11.54	NULL	2 / 11	GSEA C2SCIBETTA_KDM5B_TARGETS_DN
8	11.47	NULL	1 / 8	GSEA C2SAMOLS_TARGETS_OF_KHSV_MIRNAS_UP
9	11.47	NULL	1 / 8	GSEA C2REACTOME_G_ALPHA_1_SIGNALLING_EVENTS
10	11	NULL	2 / 12	GSEA C2BHATTACHARYA_EMBRYONIC_STEM_CELL
11	10.93	NULL	2 / 10	BP creatine metabolic process
12	10.89	NULL	2 / 18	BP smooth muscle contraction
13	10.82	NULL	1 / 3	GSEA C2KEGG_OXIDATIVE_PHOSPHORYLATION
14	10.82	NULL	1 / 3	GSEA C2KEGG_PARKINSONS_DISEASE
15	10.14	NULL	1 / 10	GSEA C2WELCSH_BRCA1_TARGETS_1_DN
16	10.14	NULL	1 / 10	GSEA C2TAKAO_RESPONSE_TO_UVB_RADIATION_UP
17	9.92	NULL	2 / 14	GSEA C2KRASNOSELSKAYA_ILF3_TARGETS_DN
18	9.92	NULL	2 / 15	GSEA C2FARMER_BREAST_CANCER_CLUSTER_7
19	9.62	NULL	1 / 11	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_BONE_DN
20	9.62	NULL	1 / 11	GSEA C2PARK_APL_PATHOGENESIS_DN
21	9.38	NULL	14 / 96	BP rRNA processing
22	9.28	NULL	2 / 16	GSEA C2BROWNE_HCMV_INFECTION_24HR_UP
23	9.21	NULL	1 / 4	GSEA C2REACTOME_GLUCOSE_REGULATION_OF_INSULIN_SECRETI
24	9.21	NULL	1 / 4	GSEA C2REACTOME_INTEGRATION_OF_ENERGY_METABOLISM
25	9.21	NULL	1 / 4	GSEA C2REACTOME_REGULATION_OF_INSULIN_SECRETION
26	9.06	NULL	3 / 10	GSEA C2KEGG_HUNTINGTONS_DISEASE
27	9.01	NULL	2 / 13	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_C
28	8.94	NULL	2 / 8	GSEA C2NIKOLSKY_BREAST_CANCER_5P15_AMPLICON
29	8.76	NULL	1 / 13	GSEA C2KORKOLA_EMBRYONIC_CARCINOMA_VS_SEMINOMA_UP
30	8.4	NULL	1 / 14	GSEA C2FARMER_BREAST_CANCER_BASAL_VS_LUMINAL
31	8.4	NULL	1 / 14	GSEA C2LIEN_BREAST_CARCINOMA_METAPLASTIC_VS_DUCTAL_UP
32	8.13	NULL	1 / 5	GSEA C2REACTOME_ELECTRON_TRANSPORT_CHAIN
33	8.08	NULL	1 / 15	MF neuropeptide hormone activity
34	8.08	NULL	1 / 15	GSEA C2NAGASHIMA_NRG1_SIGNALING_UP
35	8.08	NULL	1 / 15	GSEA C2FERNANDEZ_BOUND_BY_MYC
36	8.03	NULL	2 / 11	BP positive regulation of protein complex assembly
37	7.91	NULL	4 / 13	GSEA C2XU_RESPONSE_TO_TRETINOIN_AND_NSC682994_DN
38	7.89	NULL	3 / 14	GSEA C2KEGG_COLORECTAL_CANCER
39	7.79	NULL	1 / 16	GSEA C2DOANE_BREAST_CANCER_ESR1_DN
40	7.79	NULL	1 / 16	GSEA C2TAVOR_CEBPA_TARGETS_DN



# GW\_018

## Local Summary

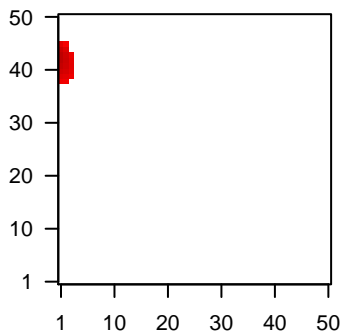
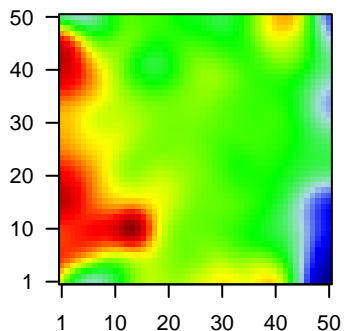
%DE = 0.68  
 # metagenes = 21  
 # genes = 255  
 # genes in genesets = 250  
 # genes with  $fdr < 0.1 = 119$  ( 109 + / 10 - )  
 # genes with  $fdr < 0.05 = 101$  ( 92 + / 9 - )  
 # genes with  $fdr < 0.01 = 87$  ( 80 + / 7 - )

<r> metagenes = 0.97  
 <r> genes = 0.33

<FC> = 0.4  
 <shrinkage-t> = 14.09  
 <p-value> = 0  
 <fdr> = 0.56

Profile

Spot



## Local Genelist

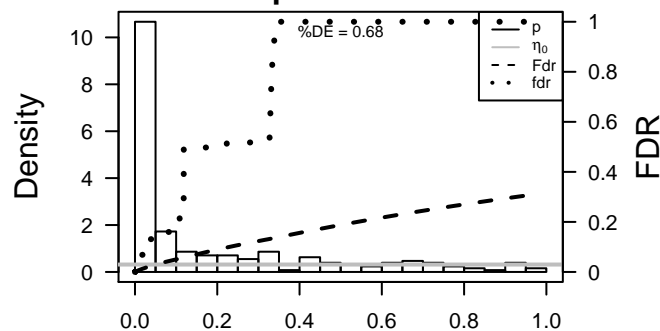
Rank	ID	log(FC)	fdr	p-value	Description
1	2152	1.98	2e-16	4e-15	1 x 43 coagulation factor III (thromboplastin, tissue factor) [Source:HGNC]
2	2731	1.76	2e-16	4e-15	1 x 38 glycine dehydrogenase (decarboxylating) [Source:HGNC Syn]
3	3552	2.27	2e-16	4e-15	1 x 43 interleukin 1, alpha [Source:HGNC Symbol;Acc:5991]
4	5947	-2.25	2e-16	4e-15	1 x 43 retinol binding protein 1, cellular [Source:HGNC Symbol;Acc:12412]
5	6339	1.76	2e-16	4e-15	1 x 45 sodium channel, non-voltage-gated 1, delta subunit [Source:HGNC Symbol;Acc:12412]
6	760	1.75	4e-16	3e-13	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
7	154	1.69	4e-15	8e-12	1 x 40 adrenoceptor beta 2, surface [Source:HGNC Symbol;Acc:286]
8	2352	1.6	1e-13	1e-10	1 x 42 folate receptor 3 (gamma) [Source:HGNC Symbol;Acc:3795]
9	7280	1.52	2e-12	1e-10	1 x 45 tubulin, beta 2A class IIa [Source:HGNC Symbol;Acc:12412]
10	5744	1.5	3e-12	3e-09	1 x 43 parathyroid hormone-like hormone [Source:HGNC Symbol;Acc:12412]
11	3861	1.31	3e-11	5e-09	1 x 45 keratin 14 [Source:HGNC Symbol;Acc:6416]
12	80115	1.39	9e-11	8e-09	1 x 43 BAI1-associated protein 2-like 2 [Source:HGNC Symbol;Acc:12412]
13	56901	1.37	2e-10	2e-08	1 x 44 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-ii
14	8942	-1.34	5e-10	2e-08	1 x 40 kynureninase [Source:HGNC Symbol;Acc:6469]
15	116211	1.33	6e-10	3e-08	1 x 43 Transmembrane 4 L6 family member 19 [Source:UniProtKB/Swiss-Prot]
16	25819	1.31	1e-09	1e-07	1 x 41 CCR4 carbon catabolite repression 4-like (S. cerevisiae) [Source:UniProtKB/Swiss-Prot]
17	6513	1.28	2e-09	4e-07	1 x 43 solute carrier family 2 (facilitated glucose transporter), member 1
18	9052	1.24	7e-09	4e-07	1 x 40 G protein-coupled receptor, family C, group 5, member A [Source:HGNC Symbol;Acc:12412]
19	50805	1.22	1e-08	4e-07	1 x 43 iroquois homeobox 4 [Source:HGNC Symbol;Acc:6129]
20	693159	1.21	2e-08	1e-06	1 x 39 microRNA 574 [Source:HGNC Symbol;Acc:32830]

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	14.9	NULL	1 / 4	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_DN
2	12.53	NULL	5 / 12	BP hemidesmosome assembly
3	11.78	NULL	1 / 6	GSEA C2SEIKE_LUNG_CANCER_POOR_SURVIVAL
4	11.57	NULL	4 / 15	GSEA C2KOBAYASHI_EGFR_SIGNALING_6HR_DN
5	11.09	NULL	2 / 2	miRNA target-199a*
6	10.52	NULL	3 / 16	GSEA C2JZONYI_RESPONSE_TO_LEUKOTRIENE_AND_THROMBIN
7	10.28	NULL	1 / 6	GSEA C2MAINA_HYPOXIA_VHL_TARGETS_UP
8	10.13	NULL	2 / 13	GSEA C2HASINA_NOL7_TARGETS_UP
9	9.98	NULL	3 / 16	GSEA C2HARRIS_HYPOXIA
10	9.29	NULL	2 / 11	BP positive regulation of positive chemotaxis
11	8.8	NULL	1 / 10	GSEA C2BIOCARTA_LYM_PATHWAY
12	8.8	NULL	3 / 13	GSEA C2WANG_METHYLATED_IN_BREAST_CANCER
13	8.68	NULL	2 / 14	GSEA C2HOEGERKORP_CD44_TARGETS_DIRECT_UP
14	8.63	NULL	3 / 16	GSEA C2LEONARD_HYPOXIA
15	8.51	NULL	2 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
16	8.31	NULL	2 / 13	BP response to copper ion
17	8.28	NULL	2 / 15	GSEA C2NAGASHIMA_NRG1_SIGNALING_DN
18	8.24	NULL	2 / 6	GSEA C2KORKOLA_EMBRYONAL_CARCINOMA
19	8.13	NULL	3 / 12	GSEA C2MIZUKAMI_HYPOXIA_UP
20	7.97	NULL	4 / 78	BP positive regulation of angiogenesis
21	7.96	NULL	2 / 14	GSEA C2MAINA_VHL_TARGETS_DN
22	7.93	NULL	1 / 12	GSEA C2BIOCARTA_ERYTH_PATHWAY
23	7.67	NULL	1 / 10	GSEA C2REACTOME_FORMATION_OF_FIBRIN_CLOT_CLOTTING_CASCADE
24	7.63	NULL	2 / 14	BP positive regulation of osteoclast differentiation
25	7.58	NULL	1 / 13	BP positive regulation of interleukin-2 biosynthetic process
26	7.45	NULL	2 / 8	GSEA C2SIMBULAN_UV_RESPONSE_NORMAL_UP
27	7.42	NULL	2 / 25	BP response to zinc ion
28	7.35	NULL	3 / 15	GSEA C2REACTOME_FORMATION_OF_TUBULIN_FOLDING_INTERMEDIATE
29	7.35	NULL	3 / 15	GSEA C2REACTOME_POST_CHAPERONIN_TUBULIN_FOLDING_PATHWAY
30	7.33	NULL	1 / 5	GSEA C2RODRIGUES_DCC_TARGETS_UP
31	7.26	NULL	1 / 11	GSEA C2BIOCARTA_EXTRINSIC_PATHWAY
32	7.18	NULL	1 / 9	GSEA C2HEDVAT_ELF4_TARGETS_UP
33	7.15	NULL	2 / 8	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_UP
34	7.11	NULL	3 / 15	GSEA C2AMIT_EGF_RESPONSE_240_MCF10A
35	7.08	NULL	2 / 15	BP response to osmotic stress
36	7.07	NULL	8 / 76	BP epidermis development
37	7.07	NULL	1 / 7	GSEA C2BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_AND_PAX3
38	7	NULL	2 / 8	GSEA C2LIU_CDX2_TARGETS_DN
39	6.98	NULL	2 / 17	BP morphogenesis of an epithelium
40	6.98	NULL	1 / 15	MF interleukin-1 receptor binding

p-values



# GW\_018

## Local Summary

%DE = 0.86  
 # metagenes = 42  
 # genes = 606  
 # genes in genesets = 603  
  
 # genes with  $fdr < 0.1$  = 397 ( 12 + / 385 - )  
 # genes with  $fdr < 0.05$  = 367 ( 11 + / 356 - )  
 # genes with  $fdr < 0.01$  = 237 ( 9 + / 228 - )  
  
 $\langle r \rangle$  metagenes = 0.78  
 $\langle r \rangle$  genes = 0.3  
  
 $\langle FC \rangle = -0.53$   
 $\langle \text{shrinkage-t} \rangle = -18.47$   
 $\langle p\text{-value} \rangle = 0$   
 $\langle fdr \rangle = 0.49$

## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	57172	-2.31	2e-16	2e-15	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
2	1675	1.86	2e-16	2e-15	50 x 9 complement factor D (adipsin) [Source:HGNC Symbol;Acc:27
3	8857	-1.87	2e-16	2e-15	50 x 13 Fc fragment of IgG binding protein [Source:HGNC Symbol;Ac
4	3109	-1.84	2e-16	2e-15	50 x 1 major histocompatibility complex, class II, DM beta [Source:H
5	3113	-1.84	2e-16	2e-15	50 x 1 major histocompatibility complex, class II, DP alpha 1 [Source
6	3122	-1.97	2e-16	2e-15	50 x 1 major histocompatibility complex, class II, DR alpha [Source:!
7	3512	-2.03	2e-16	2e-15	50 x 1 immunoglobulin J polypeptide, linker protein for immunogloblu
8	3543	-3.25	2e-16	2e-15	49 x 1 immunoglobulin lambda-like polypeptide 1 [Source:HGNC Sy
9	10232	3.42	2e-16	2e-15	50 x 11 mesothelin [Source:HGNC Symbol;Acc:7371]
10	5341	1.77	2e-16	2e-15	50 x 1 pleckstrin [Source:HGNC Symbol;Acc:9070]
11	10537	-1.74	4e-16	4e-13	50 x 1 ubiquitin D [Source:HGNC Symbol;Acc:18795]
12	51755	-1.68	5e-15	3e-12	49 x 1 cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:242
13	3108	-1.62	5e-14	3e-12	50 x 1 major histocompatibility complex, class II, DM alpha [Source:!
14	2568	-1.61	8e-14	3e-12	50 x 13 gamma-aminobutyric acid (GABA) A receptor, pi [Source:HG
15	894	-1.6	1e-13	6e-12	50 x 4 cyclin D2 [Source:HGNC Symbol;Acc:1583]
16	260436	-1.58	2e-13	6e-12	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
17	6363	-1.57	3e-13	6e-12	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc
18	5920	-1.57	3e-13	2e-11	48 x 1 retinoic acid receptor responder (tazarotene induced) 3 [Sour
19	5996	-1.55	6e-13	2e-11	50 x 1 regulator of G-protein signaling 1 [Source:HGNC Symbol;Acc
20	972	-1.54	8e-13	2e-10	50 x 1 CD74 molecule, major histocompatibility complex, class II inv.

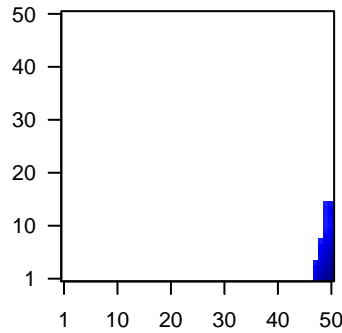
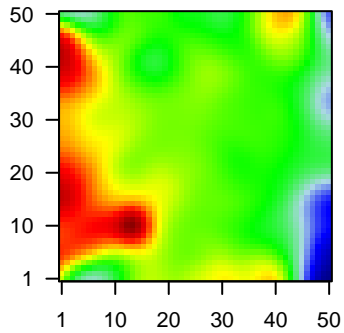
## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-28.95	NULL	12 / 15	CC MHC class II protein complex
2	-17.62	NULL	16 / 47	BP antigen processing and presentation
3	-17.32	NULL	60 / 312	BP immune response
4	-15.98	NULL	121 / 553	Cancer Lembcke_Colonin Inflammation
5	-15.59	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
6	-15.54	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
7	-15.46	NULL	14 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
8	-14.84	NULL	9 / 28	CC transport vesicle membrane
9	-14.83	NULL	7 / 21	CC clathrin-coated endocytic vesicle membrane
10	-14.09	NULL	7 / 23	CC integral to luminal side of endoplasmic reticulum membrane
11	-14.01	NULL	94 / 417	H.Tiss WIRTH_Immune system
12	-13.72	NULL	4 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
13	-13.11	NULL	5 / 9	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_DN
14	-12.85	NULL	6 / 7	GSEA C2LOPEZ_MESOTELIOMA_SURVIVAL_TIME_DN
15	-12.78	NULL	2 / 4	MMML C2SCIEJ_MMML 2
16	-12.72	NULL	9 / 35	CC trans-Golgi network membrane
17	-12.56	NULL	14 / 60	BP T cell costimulation
18	-12.28	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
19	-11.77	NULL	4 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN
20	-11.65	NULL	7 / 32	CC ER to Golgi transport vesicle membrane
21	-11.12	NULL	6 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
22	-10.96	NULL	3 / 6	GSEA C2LUL_THYROID_CANCER_CLUSTER_4
23	-10.91	NULL	7 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HGA
24	-10.91	NULL	1 / 6	H.Tiss WIRTH_Bone marrow
25	-10.69	NULL	4 / 7	Glio Donson-cytotoxic effectors-associated with LTS in HGA
26	-10.67	NULL	13 / 87	BP antigen processing and presentation of exogenous peptide antigen
27	-10.19	NULL	10 / 46	CC endocytic vesicle membrane
28	-9.94	NULL	5 / 8	GSEA C2NIELSEN_SYNOVIAL_SARCOMA_DN
29	-9.74	NULL	5 / 12	BP immunoglobulin mediated immune response
30	-9.7	NULL	5 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
31	-9.68	NULL	11 / 60	BP interferon-gamma-mediated signaling pathway
32	-9.65	NULL	8 / 52	Chr Chr HSCHR6_MHC_QBL
33	-9.64	NULL	5 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
34	-9.62	NULL	6 / 15	Glio Donson-chemokines/cytokines-associated with LTS in HGA
35	-9.55	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
36	-9.44	NULL	15 / 84	BP T cell receptor signaling pathway
37	-9.34	NULL	3 / 9	GSEA C2GUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_2
38	-9.26	NULL	4 / 11	GSEA C2GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP
39	-9.23	NULL	5 / 17	BP positive regulation of neutrophil chemotaxis
40	-9.17	NULL	1 / 2	GSEA C2KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCT

Profile

Spot



p-values

