

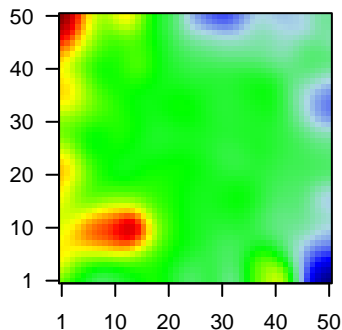
# GW\_145

## Global Summary

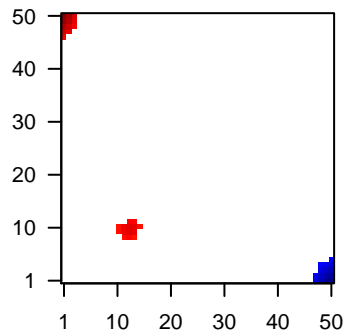
%DE = 0.13  
 # genes with fdr < 0.2 = 1404 ( 876 + / 528 - )  
 # genes with fdr < 0.1 = 1152 ( 747 + / 405 - )  
 # genes with fdr < 0.05 = 907 ( 604 + / 303 - )  
 # genes with fdr < 0.01 = 564 ( 395 + / 169 - )  
 # genes in genesets = 16332

<FC> = 0  
 <shrinkage-t> = 0  
 <p-value> = 0.14  
 <fdr> = 0.87

Profile



Regulated Spots



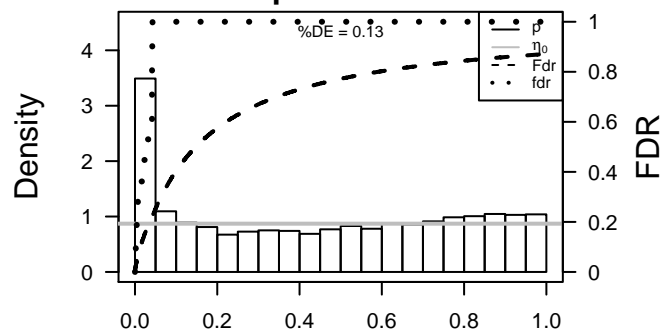
## Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	360	1.49	2e-16	8e-14	1 x 50 aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:63
2	948	1.7	2e-16	8e-14	6 x 44 CD36 molecule (thrombospondin receptor) [Source:HGNC Sy
3	63928	1.49	2e-16	8e-14	13 x 50 calcineurin-like EF-hand protein 2 [Source:HGNC Symbol;A
4	49860	2.4	2e-16	8e-14	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
5	441520	3	2e-16	8e-14	14 x 11 cancer/testis antigen family 45, member A2 [Source:HGNC S
6	1917	2.08	2e-16	8e-14	25 x 1 eukaryotic translation elongation factor 1 alpha 2 [Source:HG
7	2354	1.76	2e-16	8e-14	22 x 50 FBJ murine osteosarcoma viral oncogene homolog B [Source
8	10468	1.48	2e-16	8e-14	1 x 5 follistatin [Source:HGNC Symbol;Acc:3971]
9	729428	2.07	2e-16	8e-14	14 x 11 G antigen 12C [Source:HGNC Symbol;Acc:28402]
10	729422	2.48	2e-16	8e-14	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
11	100008586	2.22	2e-16	8e-14	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
12	645073	2.02	2e-16	8e-14	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
13	729442	2.36	2e-16	8e-14	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
14	26748	1.51	2e-16	8e-14	14 x 11 G antigen 12I [Source:HGNC Symbol;Acc:4105]
15	729447	1.5	2e-16	8e-14	14 x 11 G antigen 2A [Source:HGNC Symbol;Acc:4099]
16	645037	2.56	2e-16	8e-14	14 x 11 G antigen 2C [Source:HGNC Symbol;Acc:31958]
17	2576	2.03	2e-16	8e-14	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
18	2577	1.76	2e-16	8e-14	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
19	283120	2.55	2e-16	8e-14	25 x 1 H19, imprinted maternally expressed transcript (non-protein c
20	10866	-1.58	2e-16	8e-14	32 x 1 HLA complex P5 (non-protein coding) [Source:HGNC Symbc

## Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	19.94	NULL	135	H.Tiss WIRTH_Mucosa
2	10.2	NULL	717	Chr Chr 16
3	9.32	NULL	386	Chr Chr 22
4	8.08	NULL	21	CC cornified envelope
5	8.06	NULL	42	BP keratinization
6	7.98	NULL	53	BP keratinocyte differentiation
7	7.65	NULL	21	CC desmosome
8	7.19	NULL	957	Chr Chr 11
9	7.1	NULL	76	BP epidermis development
10	6.58	NULL	15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
11	6.49	NULL	19	BP peptide cross-linking
12	6.29	NULL	1135	Chr Chr 19
13	6.22	NULL	38	BP epithelial cell differentiation
14	6.05	NULL	16	GSEA C2COLDREN_GEFITINIB_RESISTANCE_DN
15	5.99	NULL	16	GSEA C2GRATIAS_RETINOBLASTOMA_16Q24
16	5.92	NULL	16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
17	5.9	NULL	186	MF structural molecule activity
18	5.79	NULL	1146	TF HEBENSTREIT_low expression TF
19	5.73	NULL	14	GSEA C2AZARD_UV_RESPONSE_CLUSTER_G4
20	5.69	NULL	16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
<i>Underexpressed</i>				
1	-11.4	NULL	417	H.Tiss WIRTH_Immune system
2	-10.79	NULL	312	BP immune response
3	-9.95	NULL	699	Chr Chr 5
4	-9.78	NULL	15	CC MHC class II protein complex
5	-9.35	NULL	553	Cancer Lembecke_Colonic Inflammation
6	-9.33	NULL	60	BP interferon-gamma-mediated signaling pathway
7	-9.04	NULL	23	CC integral to luminal side of endoplasmic reticulum membrane
8	-8.75	NULL	47	BP antigen processing and presentation
9	-8.45	NULL	32	CC ER to Golgi transport vesicle membrane
10	-8.18	NULL	714	Chr Chr 6
11	-7.98	NULL	1033	Chr Chr 2
12	-7.76	NULL	52	Chr Chr HSCR6_MHC_QBL
13	-7.43	NULL	6	LymphomaLAVI_MHCCII BL DN
14	-7.17	NULL	140	LymphomaLAVI_BL-vs-DLBCL
15	-7.07	NULL	204	BP cytokine-mediated signaling pathway
16	-6.92	NULL	10	CC MHC class I protein complex
17	-6.9	NULL	185	Cancer SPANG_LPS-index2
18	-6.71	NULL	18	BP positive regulation of T cell mediated cytotoxicity
19	-6.39	NULL	316	Cancer SPANG_BCL6-index2
20	-6.38	NULL	328	Glio Up

p-values



# GW\_145

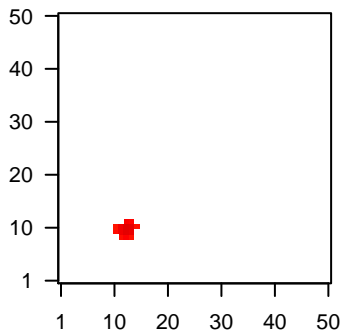
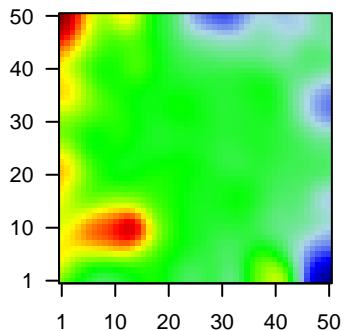
## Local Summary

%DE = 0.76  
 # metagenes = 14  
 # genes = 79  
 # genes in genesets = 63  
 # genes with  $fdr < 0.1$  = 44 ( 43 + / 1 - )  
 # genes with  $fdr < 0.05$  = 44 ( 43 + / 1 - )  
 # genes with  $fdr < 0.01$  = 42 ( 41 + / 1 - )

$\langle r \rangle$  metagenes = 0.95  
 $\langle r \rangle$  genes = 0.3  
 $\langle FC \rangle = 0.7$   
 $\langle \text{shrinkage-t} \rangle = 24.45$   
 $\langle p\text{-value} \rangle = 0$   
 $\langle fdr \rangle = 0.4$

Profile

Spot



## Local Genelist

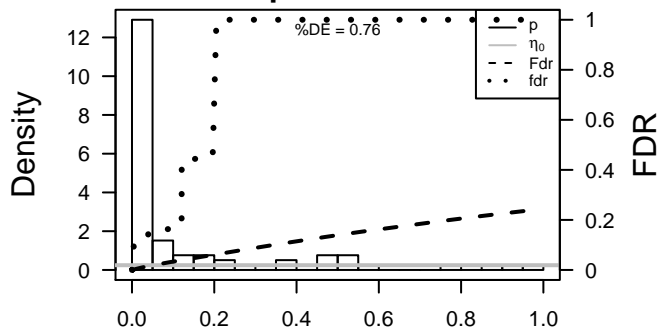
Rank	ID	log(FC)	fdr	p-value	Description
1	441520	3	2e-16	3e-16	14 x 11 cancer/testis antigen family 45, member A2 [Source:HGNC S
2	729428	2.07	2e-16	3e-16	14 x 11 G antigen 12C [Source:HGNC Symbol;Acc:28402]
3	729422	2.48	2e-16	3e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
4	100008586	2.22	2e-16	3e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
5	645073	2.02	2e-16	3e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
6	729442	2.36	2e-16	3e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
7	26748	1.51	2e-16	3e-16	14 x 11 G antigen 12I [Source:HGNC Symbol;Acc:4105]
8	729447	1.5	2e-16	3e-16	14 x 11 G antigen 2A [Source:HGNC Symbol;Acc:4099]
9	645037	2.56	2e-16	3e-16	14 x 11 G antigen 2C [Source:HGNC Symbol;Acc:31958]
10	2576	2.03	2e-16	3e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
11	2577	1.76	2e-16	3e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
12	4109	2.06	2e-16	3e-16	14 x 11 melanoma antigen family A, 10 [Source:HGNC Symbol;Acc:6
13	23532	1.53	2e-16	3e-16	13 x 10 preferentially expressed antigen in melanoma [Source:HGNC
14	8277	2.73	2e-16	3e-16	14 x 10 transketolase-like 1 [Source:HGNC Symbol;Acc:11835]
15	26749	1.46	4e-16	3e-12	14 x 11 G antigen 2E [Source:HGNC Symbol;Acc:31960]
16	2578	1.32	2e-13	3e-12	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
17	441521	1.31	3e-13	3e-12	14 x 11 cancer/testis antigen family 45, member A2 [Source:HGNC S
18	541466	1.31	4e-13	5e-11	14 x 11 cancer/testis antigen family 45, member A1 [Source:HGNC S
19	729396	1.26	3e-12	5e-09	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
20	547	1.14	3e-10	1e-07	12 x 9 kinesin family member 1A [Source:HGNC Symbol;Acc:888]

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	20.84	NULL	1 / 4	GSEA C2WEBER_METHYLATED_ICP_IN_SPERM_DN
2	20.8	NULL	1 / 9	GSEA C2ABE_VEGFA_TARGETS_30MIN
3	20.45	NULL	1 / 2	miRNA target-107
4	18.45	NULL	2 / 8	GSEA C2WEBER_METHYLATED_ICP_IN_FIBROBLAST
5	18.28	NULL	1 / 11	GSEA C2ABE_VEGFA_TARGETS_2HR
6	15.72	NULL	1 / 14	GSEA C2ALK_AML_WITH_11Q23_REARRANGED
7	15.29	NULL	1 / 6	GSEA C2NIELSEN_GIST_VS_SYNOVIAL_SARCOMA_UP
8	15.07	NULL	1 / 15	GSEA C2ALK_AML_CLUSTER_16
9	15.07	NULL	1 / 15	GSEA C2KEGG_PENTOSE_PHOSPHATE_PATHWAY
10	14.29	NULL	24 / 630	Chr Chr X
11	13.78	NULL	1 / 11	GSEA C2SU_PLACENTA
12	13.72	NULL	1 / 7	GSEA C2NIELSEN_SYNOVIAL_SARCOMA_UP
13	11.84	NULL	1 / 14	GSEA C2NIELSEN_GIST
14	11.35	NULL	1 / 15	GSEA C2BROWNE_HCMV_INFECTION_8HR_DN
15	9.67	NULL	1 / 4	GSEA C2WEBER_METHYLATED_ICP_IN_SPERM_UP
16	9.14	NULL	1 / 13	GSEA C2HATADA_METHYLATED_IN_LUNG_CANCER_DN
17	9.14	NULL	1 / 13	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_BRAIN_UP
18	8.73	NULL	1 / 14	BP negative regulation of retinoic acid receptor signaling pathway
19	8.73	NULL	1 / 14	GSEA C2KORKOLA_EMBRYONIC_CARCINOMA_VS_SEMINOMA_DN
20	8.48	NULL	1 / 7	GSEA C2KONDO_PROSTATE_CANCER_WITH_H3K27ME3
21	8.45	NULL	1 / 6	miRNA target-200c
22	8.36	NULL	1 / 15	GSEA C2L_WILMS_TUMOR
23	8.34	NULL	1 / 5	miRNA target-181a
24	8.15	NULL	2 / 14	GSEA C2MAHADEVAN_IMATINIB_RESISTANCE_UP
25	8.03	NULL	1 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LUNG_UP
26	7.28	NULL	1 / 6	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_16
27	7.28	NULL	1 / 6	miRNA target-181b
28	7.23	NULL	1 / 19	MF retinoic acid receptor binding
29	7.07	NULL	7 / 120	H.Tiss WIRTH_Testis
30	6.66	NULL	1 / 10	GSEA C2BOYERINAS_ONCOFETAL_TARGETS_OF_LET7A1
31	6.66	NULL	1 / 10	GSEA C2CONRAD_STEM_CELL
32	6.53	NULL	1 / 7	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_9
33	6.38	NULL	1 / 9	GSEA C2DAGOSTA_UV_RESPONSE_VIA_ERCC3_UP
34	6.38	NULL	1 / 9	GSEA C2TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_UP
35	6.38	NULL	1 / 9	GSEA C2RODWELL_AGING_KIDNEY_UP
36	6.26	NULL	1 / 11	GSEA C2ODONNELL_TFRC_TARGETS_DN
37	5.96	NULL	1 / 14	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_B
38	5.95	NULL	1 / 10	CC oligosaccharyltransferase complex
39	5.67	NULL	1 / 12	GSEA C2RAY_TARGETS_OF_P210_BCR_ABL_FUSION_UP
40	5.59	NULL	1 / 11	GSEA C2FLECHNER_PBL_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP

p-values



# GW\_145

## Local Summary

%DE = 0.78  
 # metagenes = 12  
 # genes = 187  
 # genes in genesets = 182

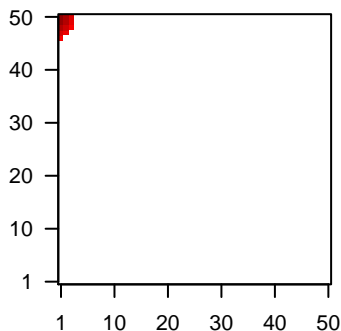
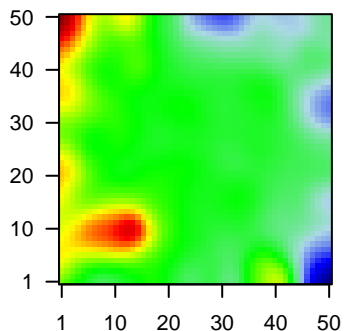
# genes with  $fdr < 0.1 = 121$  ( 113 + / 8 - )  
 # genes with  $fdr < 0.05 = 110$  ( 104 + / 6 - )  
 # genes with  $fdr < 0.01 = 98$  ( 94 + / 4 - )

<r> metagenes = 0.97  
 <r> genes = 0.47

<FC> = 0.58  
 <shrinkage-t> = 20.63  
 <p-value> = 0  
 <fdr> = 0.4

Profile

Spot



## Local Genelist

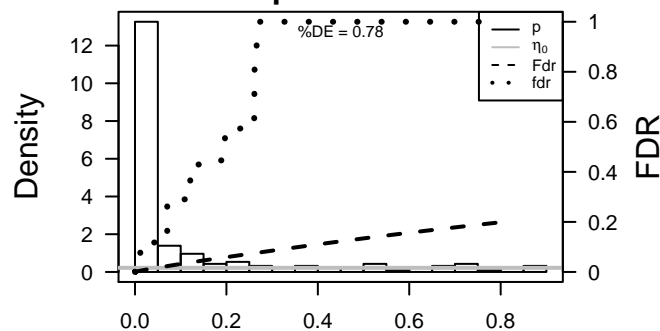
Rank	ID	log(FC)	fdr	p-value	Description
1	360	1.49	2e-16	9e-16	1 x 50 aquaporin 3 [Gill blood group] [Source:HGNC Symbol;Acc:63
2	49860	2.4	2e-16	9e-16	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
3	5653	1.81	2e-16	9e-16	1 x 50 kallikrein-related peptidase 6 [Source:HGNC Symbol;Acc:63
4	3860	1.36	2e-16	9e-16	1 x 50 keratin 13 [Source:HGNC Symbol;Acc:6415]
5	192666	3.13	2e-16	9e-16	1 x 50 keratin 24 [Source:HGNC Symbol;Acc:18527]
6	3851	1.79	2e-16	9e-16	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]
7	388533	2.57	2e-16	9e-16	1 x 49 keratinocyte differentiation-associated protein [Source:HGNC
8	4118	1.89	2e-16	9e-16	1 x 50 mal, T-cell differentiation protein [Source:HGNC Symbol;Acc
9	374897	1.82	2e-16	9e-16	1 x 49 suprabasin [Source:HGNC Symbol;Acc:24950]
10	6707	1.54	2e-16	9e-16	1 x 50 small proline-rich protein 3 [Source:HGNC Symbol;Acc:1126
11	9022	1.46	4e-16	2e-14	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2
12	2877	1.46	4e-16	2e-14	1 x 50 glutathione peroxidase 2 (gastrointestinal) [Source:HGNC Sy
13	132724	1.45	9e-16	4e-14	1 x 50 transmembrane protease, serine 11B [Source:HGNC Symbol
14	5266	1.31	3e-15	4e-14	1 x 49 peptidase inhibitor 3, skin-derived [Source:HGNC Symbol;Ac
15	93099	1.42	3e-15	1e-13	1 x 47 dermokine [Source:HGNC Symbol;Acc:25063]
16	5646	1.41	5e-15	5e-13	1 x 50 protease, serine, 3 [Source:HGNC Symbol;Acc:9486]
17	3858	1.38	2e-14	9e-13	1 x 47 keratin 10 [Source:HGNC Symbol;Acc:6413]
18	7053	1.36	6e-14	9e-13	1 x 50 transglutaminase 3 [Source:HGNC Symbol;Acc:11779]
19	26085	1.35	6e-14	2e-11	1 x 50 kallikrein-related peptidase 13 [Source:HGNC Symbol;Acc:6
20	11005	1.3	6e-13	2e-11	1 x 50 serine peptidase inhibitor, Kazal type 5 [Source:HGNC Symb

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	57.03	NULL	77 / 135	H.Tiss WIRTH_Mucosa
2	28.75	NULL	18 / 21	CC cornified envelope
3	24.44	NULL	10 / 19	BP peptide cross-linking
4	23.71	NULL	23 / 53	BP keratinocyte differentiation
5	22.96	NULL	85 / 572	Disease GUDJ_psooriasis up
6	22.91	NULL	19 / 42	BP keratinization
7	20.02	NULL	6 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
8	17.42	NULL	22 / 76	BP epidermis development
9	17.28	NULL	8 / 21	CC desmosome
10	16.7	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
11	16.03	NULL	13 / 82	CC intermediate filament
12	15.41	NULL	9 / 44	CC keratin filament
13	15.36	NULL	3 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
14	14.64	NULL	3 / 11	GSEA C2MURAKAMI_UV_RESPONSE_6HR_DN
15	14.22	NULL	20 / 186	MF structural molecule activity
16	13.18	NULL	6 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
17	12.5	NULL	6 / 38	BP epithelial cell differentiation
18	12.33	NULL	2 / 8	GSEA C2LIU_CDX2_TARGETS_DN
19	12.24	NULL	4 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
20	12.21	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
21	11.12	NULL	6 / 16	GSEA C2ZONDER_CDH1_TARGETS_3_DN
22	11.08	NULL	4 / 15	GSEA C2LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
23	10.71	NULL	4 / 23	MF peptidase inhibitor activity
24	10.28	NULL	6 / 13	BP negative regulation of peptidase activity
25	9.92	NULL	3 / 11	GSEA C2MURAKAMI_UV_RESPONSE_24HR
26	9.83	NULL	4 / 16	GSEA C2OLDREN_GEFITINIB_RESISTANCE_DN
27	9.77	NULL	7 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
28	9.63	NULL	6 / 16	GSEA C2ZROMER_TUMORIGENESIS_DN
29	9.6	NULL	2 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LIVER_UP
30	9.53	NULL	3 / 13	GSEA C2HAN_SATB1_TARGETS_DN
31	9.48	NULL	12 / 79	MF serine-type endopeptidase inhibitor activity
32	9.01	NULL	12 / 122	MF serine-type endopeptidase activity
33	8.91	NULL	4 / 15	GSEA C2AIGNER_ZEB1_TARGETS
34	8.49	NULL	50 / 1182	CC extracellular region
35	8.39	NULL	10 / 52	BP negative regulation of endopeptidase activity
36	8.38	NULL	2 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LUNG_UP
37	8.03	NULL	2 / 8	GSEA C2MCLACHLAN_DENTAL_CARIES_UP
38	7.78	NULL	1 / 6	GSEA C2SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN
39	7.7	NULL	3 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATE
40	7.65	NULL	3 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E

p-values



# GW\_145

## Local Summary

%DE = 0.87  
 # metagenes = 15  
 # genes = 272  
 # genes in genesets = 270

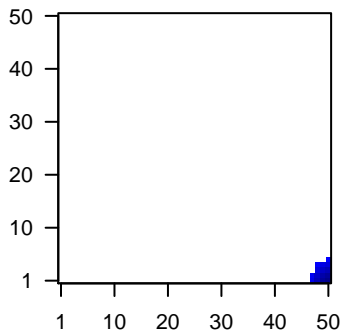
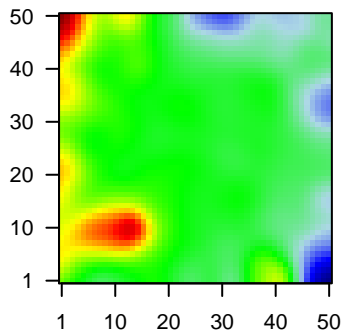
# genes with  $fdr < 0.1$  = 224 ( 11 + / 213 - )  
 # genes with  $fdr < 0.05$  = 192 ( 8 + / 184 - )  
 # genes with  $fdr < 0.01$  = 131 ( 6 + / 125 - )

<r> metagenes = 0.98  
 <r> genes = 0.57

<FC> = -0.44  
 <shrinkage-t> = -15.6  
 <p-value> = 0  
 <fdr> = 0.45

Profile

Spot



## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	3113	-1.55	2e-16	3e-15	50 x 1 major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:9361]
2	3122	-1.69	2e-16	3e-15	50 x 1 major histocompatibility complex, class II, DR alpha [Source:HGNC Symbol;Acc:9361]
3	3512	-1.58	2e-16	3e-15	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglobulin heavy chain [Source:HGNC Symbol;Acc:9361]
4	972	-1.33	1e-13	2e-09	50 x 1 CD74 molecule, major histocompatibility complex, class II invariant chain [Source:HGNC Symbol;Acc:9361]
5	3109	-1.18	6e-11	2e-09	50 x 1 major histocompatibility complex, class II, DM beta [Source:HGNC Symbol;Acc:9361]
6	260436	-1.17	1e-10	9e-09	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbol;Acc:9361]
7	57172	-1.11	8e-10	9e-09	49 x 1 calcium/calmodulin-dependent protein kinase I gamma [Source:HGNC Symbol;Acc:9361]
8	4283	-1.1	1e-09	9e-09	49 x 1 chemokine (C-X-C motif) ligand 9 [Source:HGNC Symbol;Acc:9361]
9	3543	-1	1e-09	9e-09	49 x 1 immunoglobulin lambda-like polypeptide 1 [Source:HGNC Symbol;Acc:9361]
10	5552	-1.09	1e-09	9e-09	50 x 1 serglycin [Source:HGNC Symbol;Acc:9361]
11	714	-1.09	2e-09	9e-09	50 x 1 complement component 1, q subcomponent, C chain [Source:HGNC Symbol;Acc:9361]
12	3126	-1.09	2e-09	9e-09	50 x 1 major histocompatibility complex, class II, DR beta 4 [Source:HGNC Symbol;Acc:9361]
13	5920	-1.08	2e-09	2e-08	48 x 1 retinoic acid receptor responder (tazarotene induced) 3 [Source:HGNC Symbol;Acc:9361]
14	713	-1.08	2e-09	2e-07	50 x 1 complement component 1, q subcomponent, B chain [Source:HGNC Symbol;Acc:9361]
15	25849	-1.02	1e-08	2e-07	50 x 2 prostate androgen-regulated mucin-like protein 1 [Source:HGNC Symbol;Acc:9361]
16	3620	-1.02	1e-08	1e-06	48 x 1 indoleamine 2,3-dioxygenase 1 [Source:HGNC Symbol;Acc:9361]
17	962	-0.98	6e-08	1e-06	50 x 1 CD48 molecule [Source:HGNC Symbol;Acc:1683]
18	7305	-0.97	7e-08	5e-06	50 x 1 TYRO protein tyrosine kinase binding protein [Source:HGNC Symbol;Acc:9361]
19	4069	-0.92	3e-07	5e-06	50 x 2 lysozyme [Source:HGNC Symbol;Acc:6740]
20	692084	0.91	4e-07	5e-06	48 x 4 small nucleolar RNA, C/D box 13 [Source:HGNC Symbol;Acc:9361]

## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-34.56	NULL	12 / 15	CC MHC class II protein complex
2	-24.54	NULL	87 / 417	H.Tiss WIRTH_Immune system
3	-22.79	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
4	-22.03	NULL	88 / 553	Cancer Lembcke_Colonc Inflammation
5	-21.23	NULL	15 / 47	BP antigen processing and presentation
6	-21.13	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
7	-19.9	NULL	48 / 312	BP immune response
8	-19.65	NULL	4 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN
9	-17.52	NULL	2 / 6	GSEA C2LUI_THYROID_CANCER_CLUSTER_4
10	-17.46	NULL	7 / 21	CC clathrin-coated endocytic vesicle membrane
11	-17.44	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
12	-17.3	NULL	40 / 265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
13	-17.3	NULL	40 / 265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
14	-17.3	NULL	40 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
15	-17.3	NULL	40 / 265	Glio wilscher_GBM_Verhaak-PNmut_expression_B_down
16	-16.6	NULL	7 / 23	CC integral to luminal side of endoplasmic reticulum membrane
17	-16.55	NULL	2 / 4	GSEA C2REACTOME_CLASSICAL_ANTIBODY_MEDIATED_COMPLEMENTATION
18	-16.03	NULL	2 / 6	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_UP
19	-15.63	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
20	-15.49	NULL	5 / 12	BP immunoglobulin mediated immune response
21	-15.12	NULL	6 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
22	-14.89	NULL	5 / 15	Glio Donson-chemokines/cytokines-associated with LTS in HGA
23	-14.88	NULL	7 / 28	CC transport vesicle membrane
24	-14.54	NULL	5 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
25	-14.29	NULL	5 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_ACCEPTED
26	-14.26	NULL	17 / 74	BP regulation of immune response
27	-14.18	NULL	2 / 4	MMML C6SCIEJ_MMML 2
28	-13.98	NULL	9 / 35	CC trans-Golgi network membrane
29	-13.91	NULL	13 / 87	BP antigen processing and presentation of exogenous peptide antigen
30	-13.81	NULL	7 / 32	CC ER to Golgi transport vesicle membrane
31	-13.67	NULL	6 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HGA
32	-13.67	NULL	3 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
33	-13.18	NULL	2 / 4	GSEA C2KEGG_LEISHMANIA_INFECTION
34	-13.11	NULL	4 / 8	GSEA C2NIELSEN_SYNOVIAL_SARCOMA_DN
35	-13.09	NULL	3 / 8	GSEA C2LINDSTEDT_DENDRITIC_CELL_MATURATION_D
36	-12.98	NULL	5 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
37	-12.96	NULL	3 / 7	GSEA C2BOYALTI_LIVER_CANCER_SUBCLASS_G5_DN
38	-12.94	NULL	5 / 11	GSEA C2BIOCARTA_THelper_PATHWAY
39	-12.85	NULL	9 / 46	CC endocytic vesicle membrane
40	-12.82	NULL	3 / 10	BP negative thymic T cell selection

p-values

