

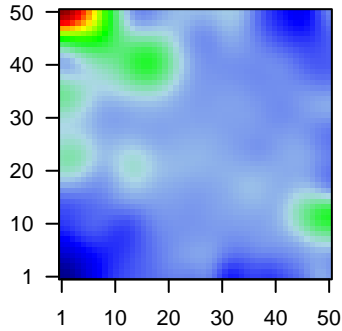
# GW\_282

## Global Summary

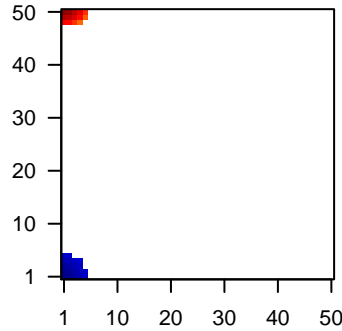
%DE = 0.14  
 # genes with fdr < 0.2 = 1724 ( 989 + / 735 - )  
 # genes with fdr < 0.1 = 1464 ( 884 + / 580 - )  
 # genes with fdr < 0.05 = 1210 ( 755 + / 455 - )  
 # genes with fdr < 0.01 = 894 ( 601 + / 293 - )  
 # genes in genesets = 16332

<FC> = 0  
 <shrinkage-t> = 0  
 <p-value> = 0.09  
 <fdr> = 0.86

Profile



Regulated Spots



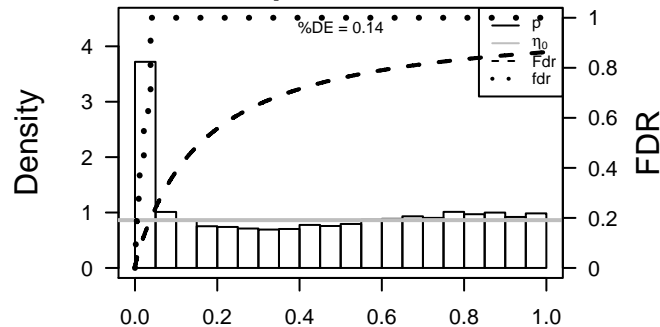
## Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	1.83	2e-16	2e-14	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	55	1.61	2e-16	2e-14	4 x 50 acid phosphatase, prostate [Source:HGNC Symbol;Acc:125]
3	131	2.14	2e-16	2e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
4	83543	1.51	2e-16	2e-14	5 x 50 allograft inflammatory factor 1-like [Source:HGNC Symbol;Ac
5	218	1.75	2e-16	2e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
6	8416	1.3	2e-16	2e-14	5 x 50 annexin A9 [Source:HGNC Symbol;Acc:547]
7	360	2	2e-16	2e-14	1 x 50 aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:63
8	23120	1.57	2e-16	2e-14	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543
9	84239	1.46	2e-16	2e-14	4 x 50 ATPase type 13A4 [Source:HGNC Symbol;Acc:25422]
10	50617	1.27	2e-16	2e-14	5 x 50 ATPase, H+ transporting, lysosomal V0 subunit a4 [Source:H
11	64207	-1.29	2e-16	2e-14	50 x 40 interferon regulatory factor 2 binding protein-like [Source:HG
12	284254	1.48	2e-16	2e-14	6 x 50 dynactin associated protein [Source:HGNC Symbol;Acc:2680
13	391267	1.37	2e-16	2e-14	50 x 13 ankyrin repeat domain 20 family, member A11, pseudogene [
14	394263	2.28	2e-16	2e-14	3 x 50
15	375791	2.41	2e-16	2e-14	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
16	84290	1.26	2e-16	2e-14	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
17	6364	-1.31	2e-16	2e-14	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc
18	100133941	1.33	2e-16	2e-14	3 x 50 CD24 molecule [Source:HGNC Symbol;Acc:1645]
19	978	1.46	2e-16	2e-14	1 x 46 cytidine deaminase [Source:HGNC Symbol;Acc:1712]
20	634	1.61	2e-16	2e-14	50 x 12 carcinoembryonic antigen-related cell adhesion molecule 1 (I

## Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	40.74	NULL	135	H.Tiss WIRTH_Mucosa
2	15.06	NULL	572	Disease GUDJ_psooriasis up
3	14.55	NULL	21	CC cornified envelope
4	13.53	NULL	16	GSEA C2CROMER_TUMORIGENESIS_DN
5	13.23	NULL	53	BP keratinocyte differentiation
6	11.95	NULL	16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
7	11.83	NULL	15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
8	10.43	NULL	19	BP peptide cross-linking
9	9.86	NULL	42	BP keratinization
10	9.54	NULL	15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
11	8.76	NULL	16	GSEA C2COLDREN_GEFITINIB_RESISTANCE_DN
12	8.73	NULL	76	BP epidermis development
13	8.52	NULL	15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
14	8.43	NULL	15	GSEA C2LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
15	8.28	NULL	13	BP negative regulation of peptidase activity
16	8.18	NULL	13	H.Tiss WIRTH_Tonsil
17	7.91	NULL	14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
18	7.71	NULL	296	MF oxidoreductase activity
19	7.6	NULL	10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
20	7.56	NULL	434	BP oxidation-reduction process
<i>Underexpressed</i>				
1	-12.3	NULL	250	LymphomaC2ENZ_Stromal signature 1
2	-12.29	NULL	242	BP extracellular matrix organization
3	-10.85	NULL	190	CC extracellular matrix
4	-9.23	NULL	403	BP cell adhesion
5	-9.19	NULL	69	BP extracellular matrix disassembly
6	-8.84	NULL	15	GSEA C2CROMER_TUMORIGENESIS_UP
7	-8.52	NULL	83	CC basement membrane
8	-8.26	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
9	-8.14	NULL	64	BP collagen catabolic process
10	-7.96	NULL	183	CC proteinaceous extracellular matrix
11	-7.86	NULL	57	MF extracellular matrix structural constituent
12	-7.55	NULL	51	BP type I interferon signaling pathway
13	-7.54	NULL	16	MMML C2CIEJ_MMML 1
14	-7.38	NULL	204	BP cytokine-mediated signaling pathway
15	-7.37	NULL	35	Glio Colman_survival_associated
16	-7	NULL	68	CC collagen
17	-6.92	NULL	142	Glio wilscher_GBM_Verhaak-CL_expression_C_up
18	-6.92	NULL	142	Glio wilscher_GBM_Verhaak-PNmut_expression_C_down
19	-6.85	NULL	16	GSEA C2MOSERLE_IFNA_RESPONSE
20	-6.84	NULL	119	LymphomaC2SOSLOWSKI_green total

p-values



# GW\_282

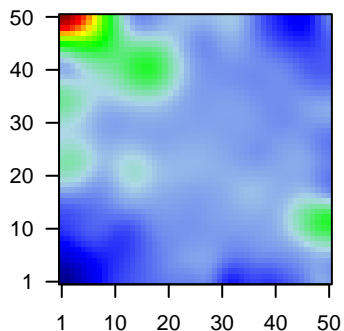
## Local Summary

%DE = 0.99  
 # metagenes = 14  
 # genes = 205  
 # genes in genesets = 201  
 # genes with  $fdr < 0.1 = 202$  ( 200 + / 2 - )  
 # genes with  $fdr < 0.05 = 202$  ( 200 + / 2 - )  
 # genes with  $fdr < 0.01 = 200$  ( 198 + / 2 - )

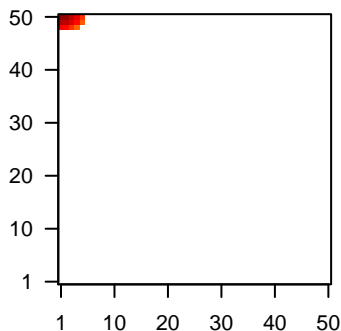
<r> metagenes = 0.98  
 <r> genes = 0.47

<FC> = 1.4  
 <shrinkage-t> = 49.21  
 <p-value> = 0  
 <fdr> = 0.02

Profile



Spot



## Local Genelist

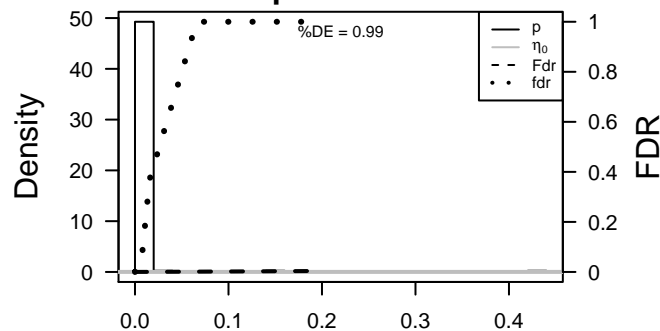
Rank	ID	log(FC)	fdr	p-value	Description
1	144568	1.83	2e-16	3e-18	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	55	1.61	2e-16	3e-18	4 x 50 acid phosphatase, prostate [Source:HGNC Symbol;Acc:125]
3	131	2.14	2e-16	3e-18	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
4	83543	1.51	2e-16	3e-18	5 x 50 allograft inflammatory factor 1-like [Source:HGNC Symbol;Ac
5	218	1.75	2e-16	3e-18	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
6	8416	1.3	2e-16	3e-18	5 x 50 annexin A9 [Source:HGNC Symbol;Acc:547]
7	360	2	2e-16	3e-18	1 x 50 aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:63
8	23120	1.57	2e-16	3e-18	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543]
9	84239	1.46	2e-16	3e-18	4 x 50 ATPase type 13A4 [Source:HGNC Symbol;Acc:25422]
10	50617	1.27	2e-16	3e-18	5 x 50 ATPase, H+ transporting, lysosomal V0 subunit a4 [Source:H
11	394263	2.28	2e-16	3e-18	3 x 50
12	375791	2.41	2e-16	3e-18	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
13	84290	1.26	2e-16	3e-18	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
14	100133941	1.33	2e-16	3e-18	3 x 50 CD24 molecule [Source:HGNC Symbol;Acc:1645]
15	1048	2.28	2e-16	3e-18	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
16	4680	2.14	2e-16	3e-18	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (
17	1087	1.86	2e-16	3e-18	4 x 50 carcinoembryonic antigen-related cell adhesion molecule 7 [
18	22802	2.89	2e-16	3e-18	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
19	9022	2.15	2e-16	3e-18	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2
20	84518	1.99	2e-16	3e-18	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	61.47	NULL	76 / 135	H.Tiss WIRTH_Mucosa
2	25.58	NULL	15 / 21	CC cornified envelope
3	23.28	NULL	79 / 572	Disease GUDJ_pсориаз up
4	22.32	NULL	20 / 53	BP keratinocyte differentiation
5	20.82	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
6	20.08	NULL	9 / 19	BP peptide cross-linking
7	19.89	NULL	7 / 15	GSEA C2HINATA_NFKB_TARGETS KERATINOCYTE_DN
8	19.18	NULL	16 / 42	BP keratinization
9	18.58	NULL	8 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
10	17.61	NULL	6 / 13	BP negative regulation of peptidase activity
11	15.85	NULL	19 / 76	BP epidermis development
12	14.77	NULL	6 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
13	13.89	NULL	7 / 38	H.Tiss epithelial cell differentiation
14	13.54	NULL	5 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
15	12.58	NULL	5 / 10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
16	12.57	NULL	13 / 122	MF serine-type endopeptidase activity
17	11.33	NULL	5 / 10	MF RAGE receptor binding
18	11.08	NULL	5 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
19	10.96	NULL	11 / 79	MF serine-type endopeptidase inhibitor activity
20	10.93	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
21	10.61	NULL	52 / 1182	CC extracellular region
22	10.59	NULL	2 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
23	10.4	NULL	4 / 13	H.Tiss WIRTH_Tonsil
24	10.25	NULL	5 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
25	9.98	NULL	15 / 186	MF structural molecule activity
26	9.94	NULL	4 / 16	GSEA C2AZARD_UV_RESPONSE_CLUSTER_G24
27	9.8	NULL	9 / 52	BP negative regulation of endopeptidase activity
28	9.56	NULL	6 / 29	BP regulation of proteolysis
29	9.53	NULL	4 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
30	9.47	NULL	3 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LUNG_UP
31	8.87	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP
32	8.73	NULL	6 / 82	CC intermediate filament
33	8.61	NULL	3 / 11	GSEA C2KEGG_DRUG_METABOLISM_CYTOCHROME_P450
34	8.53	NULL	3 / 11	GSEA C2REACTOME_XENOBIOTICS
35	8.48	NULL	4 / 15	GSEA C2ZHANG_IMMORTALIZED_BY_HPV31_DN
36	8.46	NULL	4 / 23	MF peptidase inhibitor activity
37	8.32	NULL	4 / 44	CC keratin filament
38	8.2	NULL	3 / 14	GSEA C2KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP
39	8.1	NULL	4 / 15	MF retinol dehydrogenase activity
40	8.08	NULL	5 / 16	GSEA C2JAEGER_METASTASIS_DN

p-values



# GW\_282

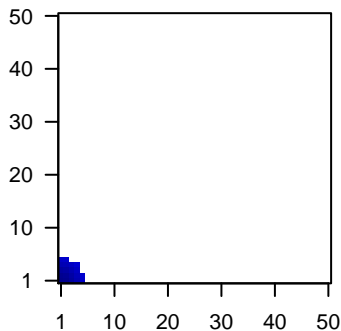
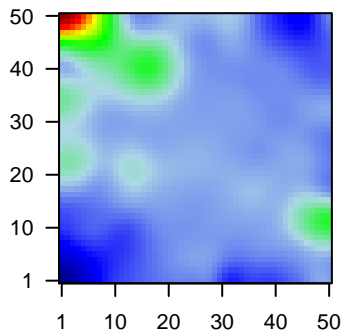
## Local Summary

%DE = 0.93  
 # metagenes = 20  
 # genes = 308  
 # genes in genesets = 305  
 # genes with  $fdr < 0.1$  = 257 ( 4 + / 253 - )  
 # genes with  $fdr < 0.05$  = 257 ( 4 + / 253 - )  
 # genes with  $fdr < 0.01$  = 208 ( 2 + / 206 - )

<r> metagenes = 0.95  
 <r> genes = 0.36  
 <FC> = -0.52  
 <shrinkage-t> = -18.15  
 <p-value> = 0  
 <fdr> = 0.33

Profile

Spot



## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	1289	-1.22	2e-16	4e-16	2 x 1 collagen, type V, alpha 1 [Source:HGNC Symbol;Acc:2209]
2	3039	-1.23	2e-16	4e-16	5 x 1 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]
3	3040	-2.04	2e-16	4e-16	4 x 1 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]
4	3043	-2.24	2e-16	4e-16	5 x 1 hemoglobin, beta [Source:HGNC Symbol;Acc:4827]
5	3576	-1.31	2e-16	4e-16	1 x 1 interleukin 8 [Source:HGNC Symbol;Acc:6025]
6	8076	-1.26	2e-16	4e-16	4 x 1 microfibrillar associated protein 5 [Source:HGNC Symbol;Acc:11125]
7	4319	-1.46	2e-16	4e-16	1 x 3 matrix metalloproteinase 10 (stromelysin 2) [Source:HGNC Symbol;Acc:11125]
8	4316	-1.22	2e-16	4e-16	2 x 1 matrix metalloproteinase 7 (matrilysin, uterine) [Source:HGNC Symbol;Acc:11125]
9	12	-1.5	2e-16	4e-16	1 x 1
10	5054	-1.22	2e-16	4e-16	1 x 2 serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1) [Source:HGNC Symbol;Acc:11125]
11	7045	-1.32	2e-16	4e-16	1 x 2 transforming growth factor, beta-induced, 68kDa [Source:HGNC Symbol;Acc:11125]
12	3371	-1.64	2e-16	4e-16	1 x 3 tenascin C [Source:HGNC Symbol;Acc:5318]
13	115908	-1.18	9e-16	4e-14	3 x 1 collagen triple helix repeat containing 1 [Source:HGNC Symbol;Acc:11125]
14	1687	-1.16	3e-15	7e-14	1 x 4 deafness, autosomal dominant 5 [Source:HGNC Symbol;Acc:11125]
15	7058	-1.14	8e-15	7e-14	2 x 1 thrombospondin 2 [Source:HGNC Symbol;Acc:11786]
16	3956	-1.14	9e-15	1e-13	1 x 1 lectin, galactoside-binding, soluble, 1 [Source:HGNC Symbol;Acc:11125]
17	4312	-1.12	2e-14	1e-13	1 x 1 matrix metalloproteinase 1 (interstitial collagenase) [Source:HGNC Symbol;Acc:11125]
18	3490	-1.12	2e-14	3e-13	3 x 1 insulin-like growth factor binding protein 7 [Source:HGNC Symbol;Acc:11125]
19	6696	-1.11	4e-14	6e-13	2 x 1 secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:11251]
20	4320	-1.1	6e-14	3e-12	3 x 1 matrix metalloproteinase 11 (stromelysin 3) [Source:HGNC Symbol;Acc:11125]

## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-36.52	NULL	65 / 190	CC extracellular matrix
2	-35.17	NULL	74 / 242	BP extracellular matrix organization
3	-33.8	NULL	15 / 16	MMML C6SCIEJ_MMML 1
4	-32.9	NULL	77 / 250	LymphomonENZ_Stromal signature 1
5	-32.11	NULL	12 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
6	-30.42	NULL	33 / 69	BP extracellular matrix disassembly
7	-29.04	NULL	29 / 64	BP collagen catabolic process
8	-28.94	NULL	12 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
9	-25.7	NULL	2 / 4	MMML C6SCIEJ_MMML 23
10	-24.91	NULL	6 / 10	GSEA C2VERRECCIA_RESPONSE_TO_TGFB1_C4
11	-22.4	NULL	39 / 183	CC proteinaceous extracellular matrix
12	-22.39	NULL	8 / 11	MF platelet-derived growth factor binding
13	-21.77	NULL	12 / 19	MF extracellular matrix binding
14	-21.73	NULL	8 / 15	GSEA C2ONDER_CDH1_SIGNALING_VIA_CTNNB1
15	-21.6	NULL	12 / 35	Glio Colman_survival_associated
16	-21.41	NULL	115 / 1182	CC extracellular region
17	-21.37	NULL	21 / 57	MF extracellular matrix structural constituent
18	-21	NULL	8 / 15	GSEA C2LEE_LIVER_CANCER_HEPATOBLAST
19	-20.92	NULL	15 / 37	BP collagen fibril organization
20	-20.52	NULL	82 / 683	CC extracellular space
21	-20.19	NULL	10 / 15	GSEA C2ONDER_CDH1_TARGETS_2_UP
22	-19.95	NULL	6 / 10	GSEA C2JEON_SMAD6_TARGETS_UP
23	-19.44	NULL	7 / 15	GSEA C2MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_UP
24	-19.42	NULL	6 / 13	GSEA C2FRIDMAN_SENESCENCE_UP
25	-19.22	NULL	25 / 83	CC basement membrane
26	-19.01	NULL	43 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
27	-19.01	NULL	43 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
28	-19.01	NULL	43 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
29	-19.01	NULL	43 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
30	-18.89	NULL	8 / 12	miRNA target-29c
31	-18.79	NULL	56 / 403	BP cell adhesion
32	-18.49	NULL	5 / 16	GSEA C2BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_DN
33	-17.93	NULL	23 / 119	LymphomonSOLOWSKI_green total
34	-17.89	NULL	6 / 11	MMML C6SCIEJ_MMML 31
35	-17.44	NULL	5 / 10	GSEA C2KEGG_ECM_RECEPTOR_INTERACTION
36	-17.31	NULL	4 / 5	GSEA C2COLLER_MYC_TARGETS_DN
37	-17.24	NULL	8 / 11	Glio Phillips MES up vs Prolif & PN
38	-17.06	NULL	5 / 12	GSEA C2Y_AGING_MIDDLE_UP
39	-16.97	NULL	65 / 553	Cancer Lembecke_Colonc Inflammation
40	-16.79	NULL	4 / 7	GSEA C2WANG_ESOPHAGUS_CANCER_PROGRESSION_UP

p-values

