

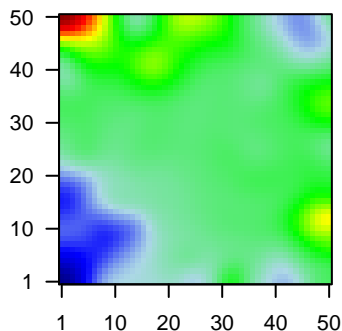
GW_163

Global Summary

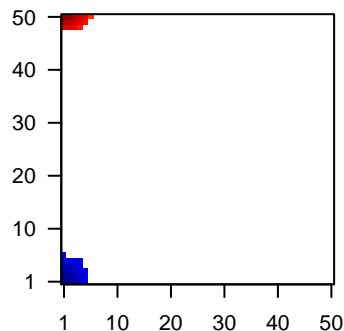
%DE = 0.15
 # genes with $fdr < 0.2$ = 1928 (1029 + / 899 -)
 # genes with $fdr < 0.1$ = 1581 (855 + / 726 -)
 # genes with $fdr < 0.05$ = 1297 (712 + / 585 -)
 # genes with $fdr < 0.01$ = 916 (534 + / 382 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.09
 <fdr> = 0.85

Profile



Regulated Spots



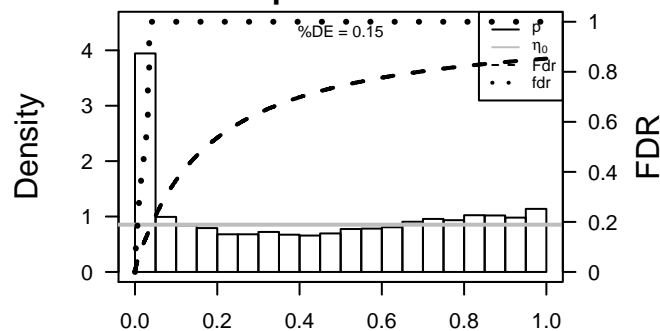
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	1.48	2e-16	2e-14	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	131	1.79	2e-16	2e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	218	1.86	2e-16	2e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
4	222	1.34	2e-16	2e-14	1 x 49 aldehyde dehydrogenase 3 family, member B2 [Source:HGNC
5	360	1.52	2e-16	2e-14	1 x 50 aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:63
6	23120	1.57	2e-16	2e-14	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543
7	8424	1.44	2e-16	2e-14	3 x 48 butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma
8	633	-1.38	2e-16	2e-14	3 x 1 biglycan [Source:HGNC Symbol;Acc:1044]
9	343990	1.33	2e-16	2e-14	50 x 12 KIAA1211-like [Source:HGNC Symbol;Acc:33454]
10	375791	1.59	2e-16	2e-14	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
11	810	1.64	2e-16	2e-14	1 x 50 calmodulin-like 3 [Source:HGNC Symbol;Acc:1452]
12	84290	1.32	2e-16	2e-14	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
13	6364	-1.89	2e-16	2e-14	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc
14	1048	1.44	2e-16	2e-14	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
15	9023	1.58	2e-16	2e-14	50 x 7 cholesterol 25-hydroxylase [Source:HGNC Symbol;Acc:1907
16	22802	2.15	2e-16	2e-14	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
17	137075	1.41	2e-16	2e-14	49 x 12 claudin 23 [Source:HGNC Symbol;Acc:17591]
18	9022	1.33	2e-16	2e-14	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2
19	84518	1.39	2e-16	2e-14	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
20	1282	-1.3	2e-16	2e-14	2 x 1 collagen, type IV, alpha 1 [Source:HGNC Symbol;Acc:2202]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	32	NULL	135	H.Tiss WIRTH_Mucosa
2	12.23	NULL	572	Disease GUDJ_psooriasis up
3	9.15	NULL	53	BP keratinocyte differentiation
4	9.07	NULL	19	BP peptide cross-linking
5	8.55	NULL	16	GSEA C2MOSERLE_IFNA_RESPONSE
6	8.05	NULL	16	GSEA C2CROMER_TUMORIGENESIS_DN
7	7.97	NULL	16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
8	7.64	NULL	8	GSEA C2LIU_CDX2_TARGETS_DN
9	7.61	NULL	21	CC cornified envelope
10	7.56	NULL	16	GSEA C2NAGASHIMA_EGF_SIGNALING_UP
11	7.32	NULL	13	H.Tiss WIRTH_Tonsil
12	7.08	NULL	76	BP epidermis development
13	6.75	NULL	16	GSEA C2ROY_WOUND_BLOOD_VESSEL_DN
14	6.64	NULL	119	BP xenobiotic metabolic process
15	6.61	NULL	15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
16	6.47	NULL	44	CC keratin filament
17	6.42	NULL	12	BP cellular aldehyde metabolic process
18	6.41	NULL	10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
19	6.4	NULL	24	TF Tissue/AQUERIZAS_Trachea
20	6.39	NULL	82	CC intermediate filament
<i>Underexpressed</i>				
1	-13.04	NULL	242	BP extracellular matrix organization
2	-11.39	NULL	69	BP extracellular matrix disassembly
3	-10.99	NULL	190	CC extracellular matrix
4	-10.94	NULL	64	BP collagen catabolic process
5	-10.87	NULL	15	GSEA C2CROMER_TUMORIGENESIS_UP
6	-8.86	NULL	183	CC proteinaceous extracellular matrix
7	-8.56	NULL	57	MF extracellular matrix structural constituent
8	-8.35	NULL	553	Cancer Lembcke_Colonc Inflammation
9	-8.13	NULL	250	Lymphoid/ENZ_Stromal signature 1
10	-7.9	NULL	530	Cancer Lembcke_Normal vs Adenoma
11	-7.73	NULL	83	CC basement membrane
12	-7.55	NULL	8	GSEA C2RUNNE_GENDER_EFFECT_UP
13	-7.49	NULL	7	MMML C6CIEJ_MMML 5
14	-7.48	NULL	35	Glio Colman_survival_associated
15	-7.09	NULL	153	CC endoplasmic reticulum lumen
16	-6.94	NULL	68	CC collagen
17	-6.91	NULL	11	Glio Phillips MES up vs Prolif & PN
18	-6.91	NULL	717	Chr Chr 16
19	-6.65	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
20	-6.49	NULL	16	MMML C6CIEJ_MMML 1

p-values



GW_163

Local Summary

%DE = 0.92
 # metagenes = 15
 # genes = 240
 # genes in genesets = 236

 # genes with $fdr < 0.1$ = 208 (197 + / 11 -)
 # genes with $fdr < 0.05$ = 208 (197 + / 11 -)
 # genes with $fdr < 0.01$ = 188 (180 + / 8 -)

 $\langle r \rangle$ metagenes = 0.98
 $\langle r \rangle$ genes = 0.45

 $\langle FC \rangle$ = 0.84
 $\langle \text{shrinkage-t} \rangle$ = 29.66
 $\langle p\text{-value} \rangle$ = 0
 $\langle fdr \rangle$ = 0.18

Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	1.48	2e-16	6e-17	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	131	1.79	2e-16	6e-17	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	218	1.86	2e-16	6e-17	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
4	222	1.34	2e-16	6e-17	1 x 49 aldehyde dehydrogenase 3 family, member B2 [Source:HGNC
5	360	1.52	2e-16	6e-17	1 x 50 aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:63
6	23120	1.57	2e-16	6e-17	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543
7	8424	1.44	2e-16	6e-17	3 x 48 butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma
8	375791	1.59	2e-16	6e-17	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
9	810	1.64	2e-16	6e-17	1 x 50 calmodulin-like 3 [Source:HGNC Symbol;Acc:1452]
10	84290	1.32	2e-16	6e-17	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
11	1048	1.44	2e-16	6e-17	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
12	22802	2.15	2e-16	6e-17	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
13	9022	1.33	2e-16	6e-17	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:21
14	84518	1.39	2e-16	6e-17	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
15	49860	3.38	2e-16	6e-17	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
16	1475	1.69	2e-16	6e-17	1 x 50 cystatin A (stefin A) [Source:HGNC Symbol;Acc:2481]
17	1562	2.02	2e-16	6e-17	1 x 50 cytochrome P450, family 2, subfamily C, polypeptide 18 [Sou
18	1577	1.9	2e-16	6e-17	4 x 50 cytochrome P450, family 3, subfamily A, polypeptide 5 [Sour
19	1828	1.62	2e-16	6e-17	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
20	1830	1.57	2e-16	6e-17	1 x 48 desmoglein 3 [Source:HGNC Symbol;Acc:3050]

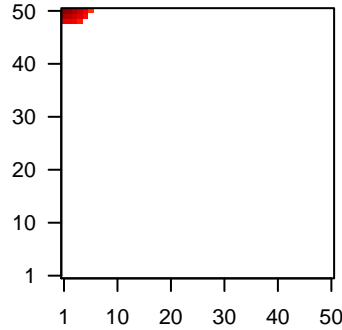
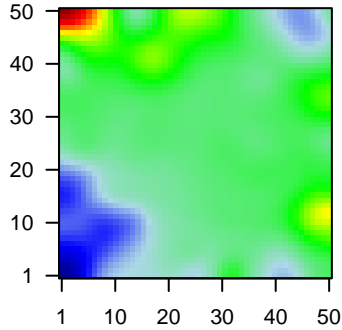
Local Geneset Analysis

Overexpression

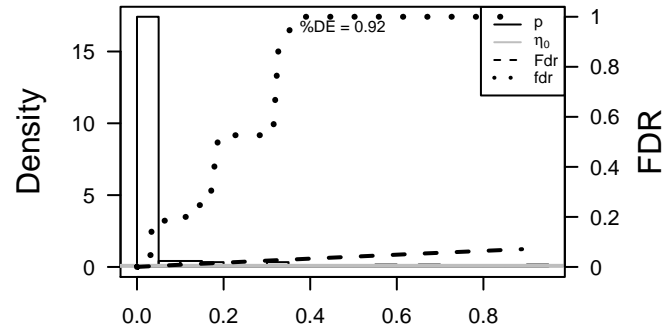
Rank	GSZ	p-value	#in/all	Geneset
1	61.77	NULL	78 / 135	H.Tiss WIRTH_Mucosa
2	20.7	NULL	9 / 19	BP peptide cross-linking
3	19.17	NULL	15 / 21	CC cornified envelope
4	18.25	NULL	81 / 572	Disease GUDJ_poriasis_up
5	18.13	NULL	6 / 13	BP negative regulation of peptidase activity
6	17.27	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
7	16.96	NULL	20 / 53	BP keratinocyte differentiation
8	14.67	NULL	5 / 10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
9	14.13	NULL	16 / 42	BP keratinization
10	13.28	NULL	8 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
11	13.28	NULL	7 / 15	GSEA C2HINATA_NFKB_TARGETS KERATINOCYTE_DN
12	12.71	NULL	19 / 76	BP epidermis development
13	12.65	NULL	6 / 29	BP regulation of proteolysis
14	11.9	NULL	3 / 11	GSEA C2REACTOME_XENOBIOTICS
15	11.75	NULL	7 / 38	BP epithelial cell differentiation
16	11.62	NULL	5 / 13	H.Tiss WIRTH_Tonsil
17	11.61	NULL	5 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
18	11.58	NULL	5 / 21	CC desmosome
19	11.32	NULL	10 / 52	BP negative regulation of endopeptidase activity
20	10.97	NULL	6 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
21	10.91	NULL	11 / 79	MF serine-type endopeptidase inhibitor activity
22	10.19	NULL	3 / 11	GSEA C2KEGG_DRUG_METABOLISM_CYTOCHROME_P450
23	10.14	NULL	3 / 12	BP cellular aldehyde metabolic process
24	9.59	NULL	3 / 14	GSEA C2KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP
25	9.5	NULL	4 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
26	9.4	NULL	3 / 13	BP retinoic acid metabolic process
27	9.23	NULL	3 / 13	GSEA C2KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME
28	8.92	NULL	5 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
29	8.78	NULL	2 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
30	8.56	NULL	2 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
31	8.49	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP
32	8.24	NULL	2 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
33	8.19	NULL	16 / 186	MF structural molecule activity
34	8.15	NULL	5 / 30	BP excretion
35	7.83	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
36	7.76	NULL	57 / 1182	CC extracellular region
37	7.76	NULL	2 / 10	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_UP
38	7.66	NULL	2 / 15	GSEA C2ALONSO_METASTASIS_NEURAL_UP
39	7.64	NULL	2 / 9	GSEA C2REACTOME_CYTOCHROME_P450_ARRANGED_BY_SUBSTRAT
40	7.64	NULL	2 / 9	GSEA C2REACTOME_PHASE_1_FUNCTIONALIZATION_OF_COMPOUND

Profile

Spot



p-values



GW_163

Local Summary

%DE = 0.95
 # metagenes = 24
 # genes = 362
 # genes in genesets = 359

 # genes with $fdr < 0.1$ = 302 (19 + / 283 -)
 # genes with $fdr < 0.05$ = 278 (14 + / 264 -)
 # genes with $fdr < 0.01$ = 247 (13 + / 234 -)

 $\langle r \rangle$ metagenes = 0.94
 $\langle r \rangle$ genes = 0.34

 $\langle FC \rangle = -0.52$
 $\langle \text{shrinkage-t} \rangle = -18.36$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.33$

Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	633	-1.38	2e-16	2e-16	3 x 1 biglycan [Source:HGNC Symbol;Acc:1044]
2	1282	-1.3	2e-16	2e-16	2 x 1 collagen, type IV, alpha 1 [Source:HGNC Symbol;Acc:2202]
3	115908	-1.38	2e-16	2e-16	3 x 1 collagen triple helix repeat containing 1 [Source:HGNC Symb
4	2919	-1.31	2e-16	2e-16	1 x 1 chemokine (C-X-C motif) ligand 1 (melanoma growth stimule
5	3040	-2.04	2e-16	2e-16	4 x 1 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]
6	3043	-2.17	2e-16	2e-16	5 x 1 hemoglobin, beta [Source:HGNC Symbol;Acc:4827]
7	3486	-1.41	2e-16	2e-16	1 x 6 insulin-like growth factor binding protein 3 [Source:HGNC Sy
8	3576	-2.3	2e-16	2e-16	1 x 1 interleukin 8 [Source:HGNC Symbol;Acc:6025]
9	3678	-1.4	2e-16	2e-16	1 x 1 integrin, alpha 5 (fibronectin receptor, alpha polypeptide) [Sou
10	3918	-1.3	2e-16	2e-16	1 x 4 laminin, gamma 2 [Source:HGNC Symbol;Acc:6493]
11	3956	-1.9	2e-16	2e-16	1 x 1 lectin, galactoside-binding, soluble, 1 [Source:HGNC Symbol
12	4312	-2.31	2e-16	2e-16	1 x 1 matrix metalloproteinase 1 (interstitial collagenase) [Source:Hi
13	4319	-1.39	2e-16	2e-16	1 x 3 matrix metalloproteinase 10 (stromelysin 2) [Source:HGNC Sy
14	4320	-1.64	2e-16	2e-16	3 x 1 matrix metalloproteinase 11 (stromelysin 3) [Source:HGNC Sy
15	4314	-2.02	2e-16	2e-16	1 x 1 matrix metalloproteinase 3 (stromelysin 1, progelatinase) [Sou
16	5328	-1.34	2e-16	2e-16	1 x 3 plasminogen activator, urokinase [Source:HGNC Symbol;Acc
17	12	-2.36	2e-16	2e-16	1 x 1
18	5054	-1.33	2e-16	2e-16	1 x 2 serpin peptidase inhibitor, clade E (nexin, plasminogen activa
19	6696	-1.4	2e-16	2e-16	2 x 1 secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:1125
20	7045	-1.63	2e-16	2e-16	1 x 2 transforming growth factor, beta-induced, 68kDa [Source:HG

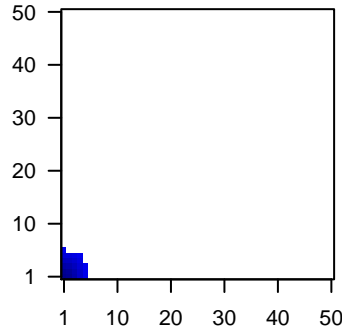
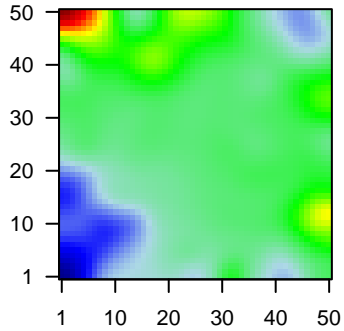
Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-32.6	NULL	65 / 190	CC extracellular matrix
2	-31.27	NULL	75 / 242	BP extracellular matrix organization
3	-30.55	NULL	33 / 69	BP extracellular matrix disassembly
4	-29.2	NULL	12 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
5	-28.72	NULL	29 / 64	BP collagen catabolic process
6	-27.09	NULL	79 / 250	LymphocyteENZ_Stromal signature 1
7	-23.32	NULL	15 / 16	MMML C6SCIEJ_MMML 1
8	-22.86	NULL	13 / 35	Glio Colman_survival_associated
9	-22.11	NULL	41 / 183	CC proteinaceous extracellular matrix
10	-20.19	NULL	2 / 4	MMML C6SCIEJ_MMML 23
11	-19.16	NULL	22 / 57	MF extracellular matrix structural constituent
12	-19.13	NULL	8 / 11	Glio Phillips MES up vs Prolif & PN
13	-18.62	NULL	49 / 265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
14	-18.62	NULL	49 / 265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
15	-18.62	NULL	49 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
16	-18.62	NULL	49 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
17	-18.55	NULL	125 / 1182	CC extracellular region
18	-18.25	NULL	8 / 11	MF platelet-derived growth factor binding
19	-18.21	NULL	12 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
20	-17.52	NULL	74 / 553	Cancer Lembecke_Colonc Inflammation
21	-17.32	NULL	89 / 683	CC extracellular space
22	-17.15	NULL	8 / 15	GSEA C2LEE_LIVER_CANCER_HEPATOBLAST
23	-16.66	NULL	16 / 37	BP collagen fibril organization
24	-16.33	NULL	7 / 15	GSEA C2MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_UP
25	-16.09	NULL	12 / 19	MF extracellular matrix binding
26	-15.6	NULL	25 / 83	CC basement membrane
27	-15.44	NULL	4 / 9	GSEA C2ZERBINI_RESPONSE_TO_SULINDAC_UP
28	-15	NULL	8 / 12	miRNA target-29c
29	-14.87	NULL	3 / 6	Glio Martinez_Glio_hypometh
30	-14.56	NULL	5 / 11	GSEA C2BIOCARTA_PLATELETAPP_PATHWAY
31	-14.46	NULL	61 / 403	BP cell adhesion
32	-14.44	NULL	1 / 3	GSEA C2REN_MIF_TARGETS_DN
33	-14.43	NULL	5 / 12	GSEA C2Y_AGING_MIDDLE_UP
34	-14.04	NULL	17 / 68	Glio cultured astroglia vs. in vivo astrocytes
35	-13.97	NULL	9 / 15	GSEA C2ONDER_CDH1_SIGNALING_VIA_CTNNB1
36	-13.81	NULL	6 / 10	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C4
37	-13.79	NULL	12 / 40	BP cellular response to amino acid stimulus
38	-13.65	NULL	18 / 68	CC collagen
39	-13.21	NULL	4 / 8	GSEA C2HAEGERSTRAND_RESPONSE_TO_IMATINIB
40	-13.03	NULL	22 / 117	Glio GIEZELT_GBM_WT_up_VS_mut

Profile

Spot



p-values

