

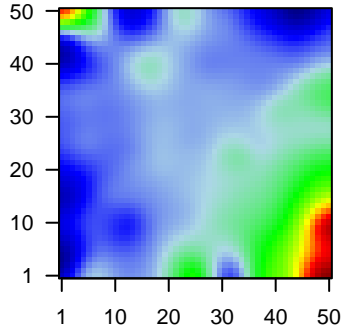
GW_040

Global Summary

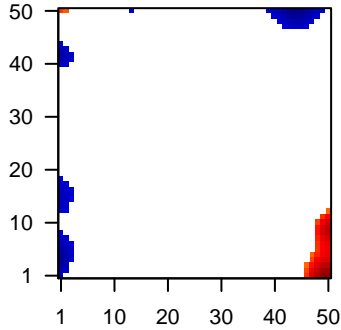
%DE = 0.13
 # genes with fdr < 0.2 = 1753 (1036 + / 717 -)
 # genes with fdr < 0.1 = 1372 (854 + / 518 -)
 # genes with fdr < 0.05 = 1081 (717 + / 364 -)
 # genes with fdr < 0.01 = 800 (569 + / 231 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.1
 <fdr> = 0.87

Profile



Regulated Spots



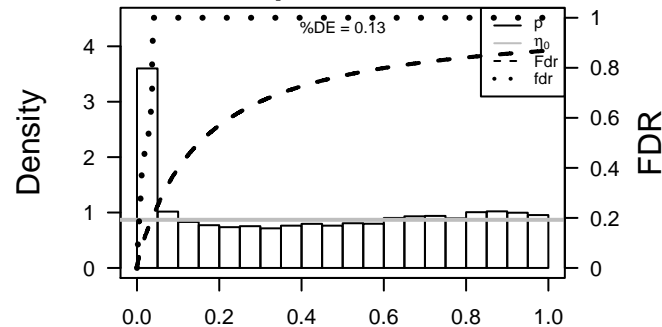
Global Genelist

Rank	ID	log(FC)	fdr p-value	Description Metagene
1	58	2.67	2e-16 3e-14	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
2	72	1.5	2e-16 3e-14	4 x 1 actin, gamma 2, smooth muscle, enteric [Source:HGNC Syml
3	10551	2.31	2e-16 3e-14	50 x 10 anterior gradient 2 [Source:HGNC Symbol;Acc:328]
4	347	2.18	2e-16 3e-14	50 x 7 apolipoprotein D [Source:HGNC Symbol;Acc:612]
5	563	1.3	2e-16 3e-14	50 x 10 alpha-2-glycoprotein 1, zinc-binding [Source:HGNC Symbol
6	80341	2.65	2e-16 3e-14	50 x 10 BPI fold containing family B, member 2 [Source:HGNC Symb
7	92747	3.28	2e-16 3e-14	50 x 10 BPI fold containing family B, member 1 [Source:HGNC Symb
8	260436	1.38	2e-16 3e-14	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
9	375791	1.54	2e-16 3e-14	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Syml
10	57172	2.07	2e-16 3e-14	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
11	6363	2.11	2e-16 3e-14	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc
12	6366	1.74	2e-16 3e-14	50 x 2 chemokine (C-C motif) ligand 21 [Source:HGNC Symbol;Acc
13	1236	1.41	2e-16 3e-14	50 x 1 chemokine (C-C motif) receptor 7 [Source:HGNC Symbol;Ac
14	930	1.89	2e-16 3e-14	49 x 1 CD19 molecule [Source:HGNC Symbol;Acc:1633]
15	919	1.33	2e-16 3e-14	50 x 1 CD247 molecule [Source:HGNC Symbol;Acc:1677]
16	962	1.49	2e-16 3e-14	50 x 1 CD48 molecule [Source:HGNC Symbol;Acc:1683]
17	1043	1.37	2e-16 3e-14	50 x 1 CD52 molecule [Source:HGNC Symbol;Acc:1804]
18	1048	1.57	2e-16 3e-14	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
19	4680	1.39	2e-16 3e-14	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (i
20	1675	1.48	2e-16 3e-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	20.44	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
2	17.93	NULL	417	H.Tiss WIRTH_Immune system
3	14.76	NULL	135	H.Tiss WIRTH_Mucosa
4	13.8	NULL	553	Cancer Lembecke_Colonc Inflammation
5	13.48	NULL	16	GSEA C2CROMER_TUMORIGENESIS_DN
6	10.48	NULL	15	CC MHC class II protein complex
7	9.98	NULL	312	BP immune response
8	9.7	NULL	21	CC cornified envelope
9	9.6	NULL	36	BP muscle filament sliding
10	8.77	NULL	9	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_DN
11	8.72	NULL	16	H.Tiss WIRTH_Hippocampus
12	8.53	NULL	127	H.Tiss WIRTH_Muscle
13	8.52	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
14	8.01	NULL	14	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_D
15	7.83	NULL	375	Disease GUDJ_poriasis down
16	7.69	NULL	16	GSEA C2ROY_WOUND_BLOOD_VESSEL_DN
17	7.68	NULL	28	BP B cell receptor signaling pathway
18	7.67	NULL	60	BP T cell costimulation
19	7.66	NULL	84	BP T cell receptor signaling pathway
20	7.63	NULL	16	GSEA C2TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_LOBULAR_C
<i>Underexpressed</i>				
1	-13.97	NULL	142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	-13.97	NULL	142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	-11.54	NULL	530	Cancer Lembecke_Normal vs Adenoma
4	-9.13	NULL	370	BP mitotic cell cycle
5	-7.4	NULL	242	BP extracellular matrix organization
6	-7.36	NULL	15	GSEA C2CROMER_TUMORIGENESIS_UP
7	-7.3	NULL	16	GSEA C2ZINAV_INTERFERON_SIGNATURE_IN_CANCER
8	-7	NULL	16	GSEA C2MOSERLE_IFNA_RESPONSE
9	-6.87	NULL	64	BP collagen catabolic process
10	-6.84	NULL	69	BP extracellular matrix disassembly
11	-6.81	NULL	11	GSEA C2BENNETT_SYSTEMIC_LUPUS_ERYTHEMATOSUS
12	-6.75	NULL	1233	TF KIM_MYC targets
13	-6.67	NULL	232	BP mitosis
14	-6.37	NULL	949	CC nucleoplasm
15	-6.26	NULL	148	BP G1/S transition of mitotic cell cycle
16	-6.12	NULL	13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
17	-6.02	NULL	10	GSEA C2BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
18	-5.82	NULL	8	GSEA C2ROETH_TERT_TARGETS_UP
19	-5.81	NULL	16	GSEA C2FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL
20	-5.64	NULL	74	BP anaphase-promoting complex-dependent proteasomal ubiquitin-

p-values



GW_040

Local Summary

%DE = 0.87
 # metagenes = 44
 # genes = 597
 # genes in genesets = 594

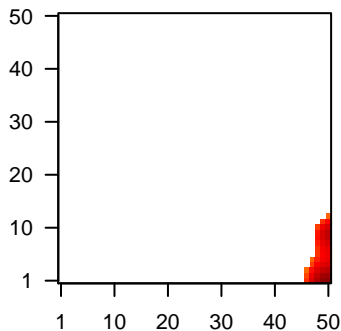
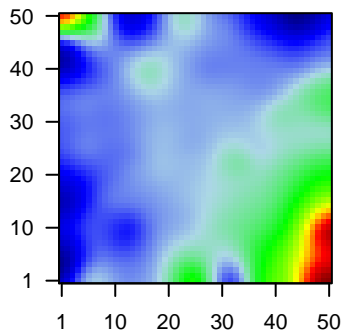
genes with $fdr < 0.1$ = 473 (466 + / 7 -)
 # genes with $fdr < 0.05$ = 424 (420 + / 4 -)
 # genes with $fdr < 0.01$ = 395 (391 + / 4 -)

<r> metagenes = 0.81
 <r> genes = 0.32

<FC> = 0.68
 <shrinkage-t> = 23.69
 <p-value> = 0
 <fdr> = 0.28

Profile

Spot



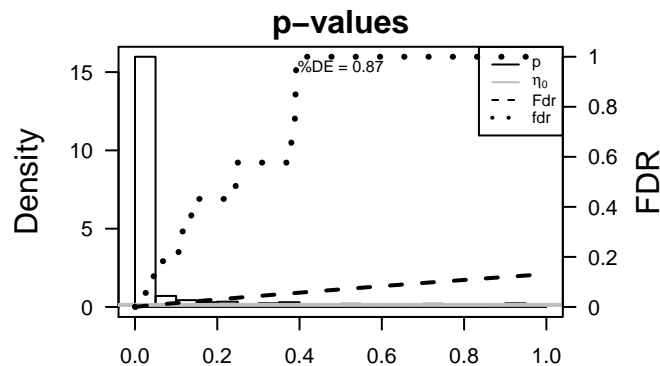
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	10551	2.31	2e-16	3e-16	50 x 10 anterior gradient 2 [Source:HGNC Symbol;Acc:328]
2	347	2.18	2e-16	3e-16	50 x 7 apolipoprotein D [Source:HGNC Symbol;Acc:612]
3	563	1.3	2e-16	3e-16	50 x 10 alpha-2-glycoprotein 1, zinc-binding [Source:HGNC Symbol]
4	80341	2.65	2e-16	3e-16	50 x 10 BPI fold containing family B, member 2 [Source:HGNC Symb]
5	92747	3.28	2e-16	3e-16	50 x 10 BPI fold containing family B, member 1 [Source:HGNC Symb]
6	260436	1.38	2e-16	3e-16	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc]
7	57172	2.07	2e-16	3e-16	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG]
8	6363	2.11	2e-16	3e-16	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc]
9	6366	1.74	2e-16	3e-16	50 x 2 chemokine (C-C motif) ligand 21 [Source:HGNC Symbol;Acc]
10	1236	1.41	2e-16	3e-16	50 x 1 chemokine (C-C motif) receptor 7 [Source:HGNC Symbol;Ac]
11	930	1.89	2e-16	3e-16	49 x 1 CD19 molecule [Source:HGNC Symbol;Acc:1633]
12	919	1.33	2e-16	3e-16	50 x 1 CD247 molecule [Source:HGNC Symbol;Acc:1677]
13	962	1.49	2e-16	3e-16	50 x 1 CD48 molecule [Source:HGNC Symbol;Acc:1683]
14	1043	1.37	2e-16	3e-16	50 x 1 CD52 molecule [Source:HGNC Symbol;Acc:1804]
15	1675	1.48	2e-16	3e-16	50 x 9 complement factor D (adipsin) [Source:HGNC Symbol;Acc:27]
16	84952	1.49	2e-16	3e-16	50 x 10 cingulin-like 1 [Source:HGNC Symbol;Acc:25931]
17	9071	1.3	2e-16	3e-16	50 x 12 claudin 10 [Source:HGNC Symbol;Acc:2033]
18	10321	1.69	2e-16	3e-16	50 x 10 cysteine-rich secretory protein 3 [Source:HGNC Symbol;Acc]
19	51755	1.73	2e-16	3e-16	49 x 1 cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:242]
20	2532	1.41	2e-16	3e-16	50 x 5 Duffy blood group, atypical chemokine receptor [Source:HGNC]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	35.77	NULL	14 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
2	22.92	NULL	103 / 417	H.Tiss WIRTH_Immune system
3	22.49	NULL	129 / 553	Cancer Lembcke_Colonin Inflammation
4	18.1	NULL	12 / 15	CC MHC class II protein complex
5	16.13	NULL	4 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
6	15.58	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
7	15.33	NULL	66 / 312	BP immune response
8	15.31	NULL	5 / 9	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_DN
9	13.71	NULL	7 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HG
10	12.78	NULL	5 / 14	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_D
11	12.08	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
12	12.07	NULL	18 / 60	BP T cell costimulation
13	12.03	NULL	7 / 15	GSEA C2FINAK_BREAST_CANCER_SDP_SIGNATURE
14	12.03	NULL	7 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
15	11.54	NULL	7 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
16	11.43	NULL	108 / 1182CC	extracellular region
17	11.13	NULL	2 / 5	GSEA C2FERRARI_RESPONSE_TO_FENRETINIDE_DN
18	11.1	NULL	16 / 47	BP antigen processing and presentation
19	10.89	NULL	5 / 12	BP dendritic cell chemotaxis
20	10.73	NULL	12 / 28	BP B cell receptor signaling pathway
21	10.68	NULL	37 / 162	CC external side of plasma membrane
22	10.49	NULL	5 / 17	BP positive regulation of neutrophil chemotaxis
23	10.48	NULL	77 / 683	CC extracellular space
24	10.45	NULL	4 / 16	GSEA C2TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_LOBULAR_D
25	10.12	NULL	3 / 10	GSEA C2UL_THYROID_CANCER_CLUSTER_5
26	10.11	NULL	8 / 13	Cancer GENTLES_modul18
27	10.08	NULL	3 / 13	GSEA C2WONG_ENDMETRIUM_CANCER_UP
28	9.89	NULL	7 / 12	GSEA C2BERTUCCI_INVASIVE_CARCINOMA_DUCTAL_VS_LOBULAR_D
29	9.86	NULL	5 / 16	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_D
30	9.82	NULL	20 / 74	BP regulation of immune response
31	9.77	NULL	7 / 13	GSEA C2BIOCARTA_IL17_PATHWAY
32	9.74	NULL	5 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_
33	9.59	NULL	4 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN
34	9.54	NULL	18 / 84	BP T cell receptor signaling pathway
35	9.45	NULL	5 / 8	GSEA C2BIOCARTA_TGCR_PATHWAY
36	9.44	NULL	3 / 9	GSEA C2GOUYER_TATI_TARGETS_UP
37	9.4	NULL	8 / 27	MF antigen binding
38	9.35	NULL	61 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
39	9.35	NULL	61 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
40	9.35	NULL	61 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down



GW_040

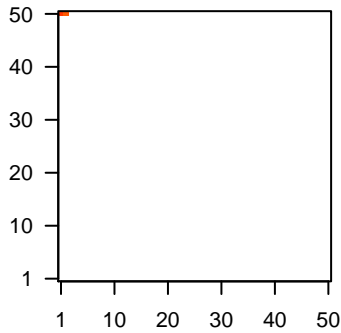
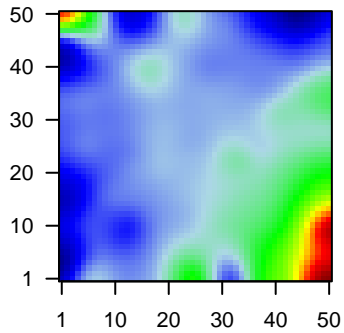
Local Summary

%DE = 0.96
 # metagenes = 2
 # genes = 71
 # genes in genesets = 70
 # genes with $fdr < 0.1 = 64$ (61 + / 3 -)
 # genes with $fdr < 0.05 = 63$ (60 + / 3 -)
 # genes with $fdr < 0.01 = 62$ (60 + / 2 -)

$\langle r \rangle$ metagenes = 1
 $\langle r \rangle$ genes = 0.58
 $\langle FC \rangle = 1.1$
 $\langle \text{shrinkage-t} \rangle = 38.95$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.11$

Profile

Spot



Local Genelist

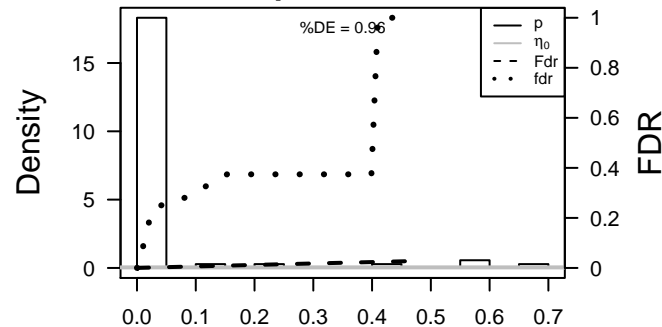
Rank	ID	log(FC)	fdr	p-value	Description
1	375791	1.54	2e-16	2e-17	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Symt
2	1048	1.57	2e-16	2e-17	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
3	4680	1.39	2e-16	2e-17	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (i
4	22802	2.57	2e-16	2e-17	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
5	84518	1.34	2e-16	2e-17	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
6	54544	1.36	2e-16	2e-17	1 x 50 cysteine-rich C-terminal 1 [Source:HGNC Symbol;Acc:2987
7	49860	2.99	2e-16	2e-17	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
8	1475	1.61	2e-16	2e-17	1 x 50 cystatin A (steffin A) [Source:HGNC Symbol;Acc:2481]
9	26085	1.37	2e-16	2e-17	1 x 50 kallikrein-related peptidase 13 [Source:HGNC Symbol;Acc:6
10	5653	1.75	2e-16	2e-17	1 x 50 kallikrein-related peptidase 6 [Source:HGNC Symbol;Acc:63
11	192666	2.38	2e-16	2e-17	1 x 50 keratin 24 [Source:HGNC Symbol;Acc:18527]
12	3851	2.61	2e-16	2e-17	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]
13	196374	2.43	2e-16	2e-17	1 x 50 keratin 78 [Source:HGNC Symbol;Acc:28926]
14	4118	2.62	2e-16	2e-17	1 x 50 mal, T-cell differentiation protein [Source:HGNC Symbol;Acc
15	342897	1.39	2e-16	2e-17	1 x 50 non-specific cytotoxic cell receptor protein 1 homolog (zebraf
16	5493	1.44	2e-16	2e-17	1 x 50 periplakin [Source:HGNC Symbol;Acc:9273]
17	83886	1.64	2e-16	2e-17	1 x 50 protease, serine 27 [Source:HGNC Symbol;Acc:15475]
18	51458	2.24	2e-16	2e-17	1 x 50 Rh family, C glycoprotein [Source:HGNC Symbol;Acc:18140]
19	8796	1.38	2e-16	2e-17	1 x 50 sciellin [Source:HGNC Symbol;Acc:10573]
20	11005	1.47	2e-16	2e-17	1 x 50 serine peptidase inhibitor, Kazal type 5 [Source:HGNC Symb

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	44.37	NULL	39 / 135	H.Tiss WIRTH_Mucosa
2	36.4	NULL	10 / 21	CC cornified envelope
3	28.72	NULL	11 / 42	BP keratinization
4	28.62	NULL	7 / 19	BP peptide cross-linking
5	24.8	NULL	12 / 53	BP keratinocyte differentiation
6	22.68	NULL	4 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
7	18.98	NULL	4 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
8	14	NULL	9 / 76	BP epidermis development
9	13.73	NULL	29 / 572	Disease GUDJ_psooriasis up
10	13.54	NULL	3 / 13	BP negative regulation of peptidase activity
11	13.37	NULL	3 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
12	13.2	NULL	10 / 186	MF structural molecule activity
13	12.76	NULL	2 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
14	12.51	NULL	3 / 38	BP epithelial cell differentiation
15	12.27	NULL	3 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
16	11.83	NULL	9 / 122	MF serine-type endopeptidase activity
17	11.19	NULL	3 / 44	CC keratin filament
18	10.94	NULL	4 / 82	CC intermediate filament
19	10.8	NULL	1 / 11	Glio VERHAAK_Brain
20	10.71	NULL	3 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP
21	10.2	NULL	1 / 12	MF channel activity
22	10.16	NULL	2 / 16	BP cobalamin metabolic process
23	10.09	NULL	1 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
24	9.83	NULL	1 / 10	BP homeostatic process
25	9.69	NULL	1 / 13	GSEA C2HASLINGER_B CLL_WITH_MUTATED_VH_GENES
26	9.54	NULL	1 / 12	GSEA C2ODONNELL_METASTASIS_DN
27	9.54	NULL	1 / 12	GSEA C2SYED ESTRADIOL_RESPONSE
28	9.15	NULL	2 / 15	GSEA C2ZHANG_IMMORTALIZED_BY_HP31_DN
29	8.85	NULL	1 / 15	BP positive regulation of extrinsic apoptotic signaling pathway via dea
30	8.85	NULL	1 / 15	GSEA C2ALONSO_METASTASIS_NEURAL_UP
31	8.85	NULL	1 / 15	GSEA C2BIOCARTA_MAL_PATHWAY
32	8.51	NULL	2 / 38	BP myelination
33	8.5	NULL	1 / 16	Cancer GENTLES_modul11
34	8.34	NULL	1 / 16	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATE
35	8.3	NULL	2 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
36	8.3	NULL	2 / 16	GSEA C2CHEOK_RESPONSE_TO_MERCAPTOPYRINE_AND_LD_MTX_
37	8.14	NULL	1 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_CML_DIVIDING_DN
38	7.9	NULL	1 / 14	MF ankyrin binding
39	7.8	NULL	2 / 13	H.Tiss WIRTH_Tonsil
40	7.22	NULL	6 / 79	MF serine-type endopeptidase inhibitor activity

p-values



GW_040

Local Summary

%DE = 0.83
 # metagenes = 20
 # genes = 313
 # genes in genesets = 310

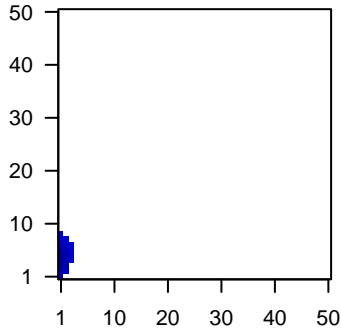
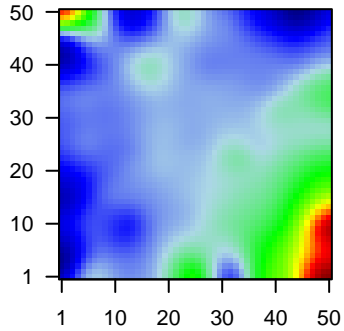
genes with $fdr < 0.1 = 191$ (10 + / 181 -)
 # genes with $fdr < 0.05 = 186$ (9 + / 177 -)
 # genes with $fdr < 0.01 = 124$ (7 + / 117 -)

<r> metagenes = 0.94
 <r> genes = 0.32

<FC> = -0.37
 <shrinkage-t> = -13.01
 <p-value> = 0
 <fdr> = 0.5

Profile

Spot



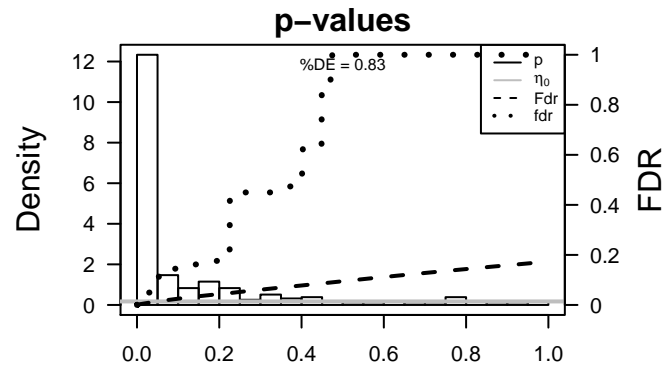
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	3569	1.6	2e-16	2e-15	1 x 1 interleukin 6 (interferon, beta 2) [Source:HGNC Symbol;Acc:cf
2	3918	-1.45	2e-16	2e-15	1 x 4 laminin, gamma 2 [Source:HGNC Symbol;Acc:6493]
3	4312	-1.75	2e-16	2e-15	1 x 1 matrix metalloproteinase 1 (interstitial collagenase) [Source:HG
4	4319	-1.93	2e-16	2e-15	1 x 3 matrix metalloproteinase 10 (stromelysin 2) [Source:HGNC Sy
5	4314	-1.86	2e-16	2e-15	1 x 1 matrix metalloproteinase 3 (stromelysin 1, progelatinase) [Sou
6	5328	-1.5	2e-16	2e-15	1 x 3 plasminogen activator, urokinase [Source:HGNC Symbol;Acc
7	7045	-1.18	2e-16	2e-15	1 x 2 transforming growth factor, beta-induced, 68kDa [Source:HG
8	3956	-1.25	1e-15	2e-13	1 x 1 lectin, galactoside-binding, soluble, 1 [Source:HGNC Symbol
9	12	1.23	4e-15	2e-12	1 x 1
10	10630	-1.18	5e-14	5e-12	1 x 2 podoplanin [Source:HGNC Symbol;Acc:29602]
11	55107	-1.16	1e-13	2e-11	1 x 5 anoctamin 1, calcium activated chloride channel [Source:HG
12	2920	1.13	4e-13	2e-10	1 x 1 chemokine (C-X-C motif) ligand 2 [Source:HGNC Symbol;Ac
13	51330	-1.09	4e-12	5e-10	1 x 4 tumor necrosis factor receptor superfamily, member 12A [Sou
14	768	-1.05	2e-11	5e-10	1 x 6 carbonic anhydrase IX [Source:HGNC Symbol;Acc:1383]
15	10381	-1.05	2e-11	1e-09	1 x 4 tubulin, beta 3 class III [Source:HGNC Symbol;Acc:20772]
16	4322	-1.03	4e-11	2e-08	1 x 2 matrix metalloproteinase 13 (collagenase 3) [Source:HGNC S
17	1464	-0.96	1e-09	2e-08	1 x 3 chondroitin sulfate proteoglycan 4 [Source:HGNC Symbol;Ac
18	1294	-0.96	1e-09	2e-08	1 x 5 collagen, type VII, alpha 1 [Source:HGNC Symbol;Acc:2214]
19	5054	-0.95	1e-09	1e-07	1 x 2 serpin peptidase inhibitor, clade E (nexin, plasminogen activa
20	7130	-0.92	4e-09	1e-07	1 x 1 tumor necrosis factor, alpha-induced protein 6 [Source:HGNC

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-25.61	NULL	8 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
2	-20.04	NULL	43 / 242	BP extracellular matrix organization
3	-16.54	NULL	12 / 64	BP collagen catabolic process
4	-15.86	NULL	12 / 69	BP extracellular matrix disassembly
5	-15.46	NULL	18 / 183	CC proteinaceous extracellular matrix
6	-14.54	NULL	5 / 12	BP hemidesmosome assembly
7	-14.47	NULL	9 / 35	Glio Colman_survival_associated
8	-13.58	NULL	2 / 7	GSEA C2FREDERICK_PRKCI_TARGETS
9	-13.33	NULL	5 / 11	Glio Phillips_MES_up_vs_Prolif_&_PN
10	-13.16	NULL	2 / 12	GSEA C2GEISS_RESPONSE_TO_DSRNA_DN
11	-12.71	NULL	46 / 403	BP cell adhesion
12	-12.7	NULL	5 / 13	GSEA C2MAHADEVAN_GIST_MORPHOLOGICAL_SWITCH
13	-12.5	NULL	17 / 190	CC extracellular matrix
14	-12.18	NULL	8 / 51	BP regulation of cell migration
15	-11.92	NULL	29 / 250	LymphomaENZ_Stromal_signature_1
16	-11.54	NULL	7 / 73	MF metalloproteinase activity
17	-11.46	NULL	3 / 12	GSEA C2SHI_SPARC_TARGETS_UP
18	-11.43	NULL	1 / 5	GSEA C2OXFORD_RALA_AND_RALB_TARGETS_UP
19	-11.43	NULL	86 / 1182	CC extracellular region
20	-11.42	NULL	7 / 81	MF metalloendopeptidase activity
21	-11.41	NULL	4 / 10	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C4
22	-11.38	NULL	5 / 15	GSEA C2ONDER_CDH1_SIGNALING_VIA_CTNNB1
23	-11.04	NULL	2 / 14	GSEA C2AZARD_UV_RESPONSE_CLUSTER_G4
24	-10.91	NULL	2 / 10	BP regulation of receptor activity
25	-10.91	NULL	2 / 10	GSEA C2BIOCARTA_FIBRINOLYSIS_PATHWAY
26	-10.82	NULL	4 / 13	GSEA C2REACTOME_REGULATION_OF_INSULIN_LIKE_GROWTH_FACT
27	-10.8	NULL	3 / 15	BP fibrinolysis
28	-10.74	NULL	3 / 11	GSEA C2BIOCARTA_PLATELETAPP_PATHWAY
29	-10.72	NULL	10 / 83	CC basement membrane
30	-10.1	NULL	3 / 16	GSEA C2MURATA_VIRULENCE_OF_H_PILORI
31	-10.03	NULL	4 / 16	GSEA C2KERLEY_RESPONSE_TO_CISPLATIN_UP
32	-9.95	NULL	53 / 683	CC extracellular space
33	-9.87	NULL	3 / 16	CC lamellipodium membrane
34	-9.63	NULL	2 / 13	GSEA C2XU_HGF_TARGETS_INDUCED_BY_AKT1_48HR_UP
35	-9.63	NULL	24 / 265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
36	-9.63	NULL	24 / 265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
37	-9.63	NULL	24 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
38	-9.63	NULL	24 / 265	Glio wilscher_GBM_Verhaak-PNmut_expression_B_down
39	-9.59	NULL	2 / 10	GSEA C2VETTER_TARGETS_OF_PRKCA_AND_ETS1_DN
40	-9.39	NULL	4 / 15	GSEA C2KANG_FLUOROURACIL_RESISTANCE_DN



GW_040

Local Summary

%DE = 0.78
 # metagenes = 16
 # genes = 203
 # genes in genesets = 202
 # genes with $fdr < 0.1$ = 137 (2 + / 135 -)
 # genes with $fdr < 0.05$ = 96 (1 + / 95 -)
 # genes with $fdr < 0.01$ = 32 (0 + / 32 -)

<r> metagenes = 0.96

<r> genes = 0.29

<FC> = -0.3

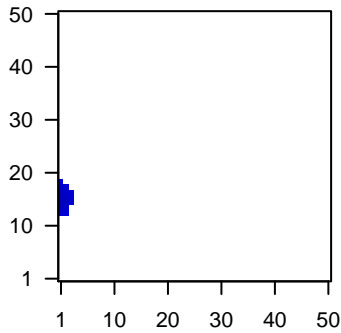
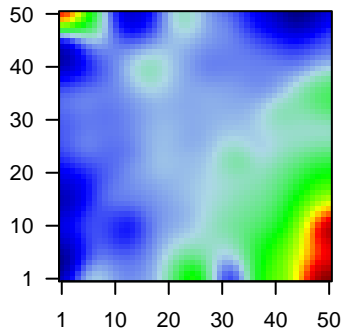
<shrinkage-t> = -10.59

<p-value> = 0.03

<fdr> = 0.69

Profile

Spot



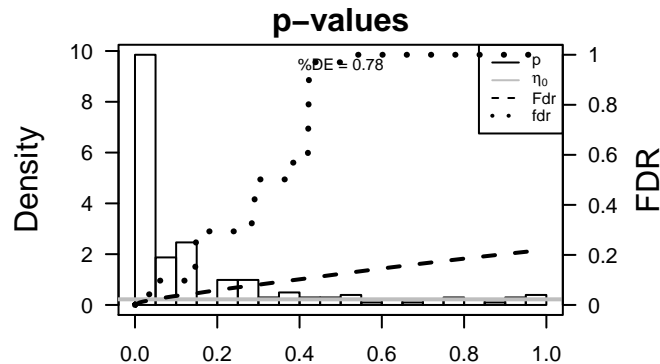
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description	
1	10428	-1.1	2e-12	8e-07	1 x 15	craniofacial development protein 1 [Source:HGNC Symbol;Acc:10428]
2	8772	-0.86	3e-08	8e-07	1 x 14	Fas (TNFRSF6)-associated via death domain [Source:HGNC Symbol;Acc:8772]
3	991	-0.86	4e-08	5e-05	1 x 16	cell division cycle 20 [Source:HGNC Symbol;Acc:1723]
4	3217	-0.76	1e-06	5e-05	1 x 15	homeobox B7 [Source:HGNC Symbol;Acc:5118]
5	5708	-0.74	2e-06	5e-05	1 x 14	proteasome (prosome, macropain) 26S subunit, non-ATPase [Source:HGNC Symbol;Acc:5708]
6	4282	-0.66	4e-06	5e-05	2 x 15	macrophage migration inhibitory factor (glycosylation-inhibitor) 1 [Source:HGNC Symbol;Acc:4282]
7	2050	-0.71	5e-06	5e-05	1 x 15	EPH receptor B4 [Source:HGNC Symbol;Acc:3395]
8	3237	-0.71	5e-06	1e-04	1 x 16	homeobox D11 [Source:HGNC Symbol;Acc:5134]
9	283869	-0.7	8e-06	3e-04	1 x 17	neuropeptide W [Source:HGNC Symbol;Acc:30509]
10	2932	-0.67	2e-05	3e-04	1 x 17	glycogen synthase kinase 3 beta [Source:HGNC Symbol;Acc:2932]
11	6535	-0.67	2e-05	7e-04	1 x 16	solute carrier family 6 (neurotransmitter transporter), member 6 [Source:HGNC Symbol;Acc:6535]
12	10467	-0.65	4e-05	8e-04	2 x 18	zinc finger, HIT-type containing 1 [Source:HGNC Symbol;Acc:10467]
13	23246	-0.63	6e-05	1e-03	1 x 16	block of proliferation 1 [Source:HGNC Symbol;Acc:15519]
14	51367	-0.62	8e-05	2e-03	1 x 17	processing of precursor 5, ribonuclease P/MRP subunit (S. cerevisiae) [Source:HGNC Symbol;Acc:51367]
15	8563	-0.57	2e-04	2e-03	1 x 16	THO complex 5 [Source:HGNC Symbol;Acc:19074]
16	55257	-0.57	3e-04	2e-03	1 x 15	MRG/MORF4L binding protein [Source:HGNC Symbol;Acc:55257]
17	84916	-0.56	3e-04	2e-03	1 x 16	cirrhosis, autosomal recessive 1A (cirhin) [Source:HGNC Symbol;Acc:84916]
18	2023	-0.51	3e-04	2e-03	1 x 14	enolase 1, (alpha) [Source:HGNC Symbol;Acc:3350]
19	79080	-0.55	4e-04	2e-03	1 x 14	coiled-coil domain containing 86 [Source:HGNC Symbol;Acc:79080]
20	26873	-0.55	4e-04	2e-03	1 x 17	5-oxoprolinase (ATP-hydrolysing) [Source:HGNC Symbol;Acc:26873]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-12.14	NULL	4 / 13	GSEA C2REACTOME_GLYCOLYSIS
2	-11.13	NULL	2 / 13	GSEA C2NADERI_BREAST_CANCER_PROGNOSIS_UP
3	-10.88	NULL	3 / 9	GSEA C2BIOCARTA_GLYCOLYSIS_PATHWAY
4	-10.79	NULL	3 / 10	GSEA C2TOMIDA_METASTASIS_UP
5	-10.79	NULL	2 / 9	GSEA C2KUMAMOTO_RESPONSE_TO_NUTLIN_3A_DN
6	-10.63	NULL	3 / 15	GSEA C2Y_AGING_MIDDLE_DN
7	-10.12	NULL	7 / 66	BP positive regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle
8	-9.78	NULL	7 / 70	BP regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle
9	-9.55	NULL	3 / 16	Cancer RHODES_UNDIFFERENTIATED_CANCER
10	-9.47	NULL	7 / 74	BP anaphase-promoting complex-dependent proteasomal ubiquitin-protein ligase activity
11	-9.29	NULL	6 / 62	BP negative regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle
12	-9.09	NULL	2 / 10	BP creatine metabolic process
13	-8.98	NULL	1 / 6	GSEA C2GALL_TP53_TARGETS_APOPTIC_DN
14	-8.97	NULL	12 / 96	BP rRNA processing
15	-8.95	NULL	1 / 6	GSEA C2VAESCH_ANAPHASE_PROMOTING_COMPLEX
16	-8.86	NULL	2 / 7	GSEA C2REACTOME_SIGNALING_BY_WNT
17	-8.83	NULL	2 / 15	GSEA C2KEGG_AXON_GUIDANCE
18	-8.76	NULL	2 / 11	BP positive regulation of protein complex assembly
19	-8.66	NULL	2 / 10	BP negative regulation of DNA damage response, signal transduction in response to DNA damage
20	-8.55	NULL	2 / 9	GSEA C2DACOSTA_UV_RESPONSE_VIA_ERCC3_UP
21	-8.51	NULL	5 / 39	BP glycolysis
22	-8.31	NULL	3 / 14	GSEA C2KEGG_COLORECTAL_CANCER
23	-8.29	NULL	2 / 13	BP cell migration involved in sprouting angiogenesis
24	-8.21	NULL	3 / 15	GSEA C2REACTOME_GLUONEOGENESIS
25	-8.16	NULL	1 / 5	GSEA C2ERRECCHIA_RESPONSE_TO_TGFB1_C6
26	-8.14	NULL	6 / 55	CC proteasome complex
27	-8.12	NULL	3 / 16	BP monocyte differentiation
28	-7.96	NULL	2 / 15	BP positive regulation of branching involved in ureteric bud morphogenesis
29	-7.96	NULL	4 / 18	MF ribonucleoprotein complex binding
30	-7.88	NULL	3 / 17	CC proteasome accessory complex
31	-7.82	NULL	2 / 12	BP negative regulation of intrinsic apoptotic signaling pathway in response to DNA damage
32	-7.64	NULL	2 / 7	GSEA C2CAFFAREL_RESPONSE_TO_THC_24HR_5_UP
33	-7.59	NULL	5 / 48	BP regulation of cellular amino acid metabolic process
34	-7.46	NULL	2 / 12	BP positive regulation of peptidyl-threonine phosphorylation
35	-7.36	NULL	5 / 39	BP gluconeogenesis
36	-7.36	NULL	2 / 14	GSEA C2REACTOME_PI3K_AKT_SIGNALLING
37	-7.18	NULL	1 / 9	GSEA C2BIOCARTA_RELA_PATHWAY
38	-7.18	NULL	1 / 9	GSEA C2BIOCARTA_NFKB_PATHWAY
39	-7.18	NULL	1 / 9	GSEA C2BIOCARTA_SODD_PATHWAY
40	-7.18	NULL	1 / 9	GSEA C2REACTOME_DEATH_RECEPTOR_SIGNALLING



GW_040

Local Summary

%DE = 0.97
 # metagenes = 11
 # genes = 159
 # genes in genesets = 156

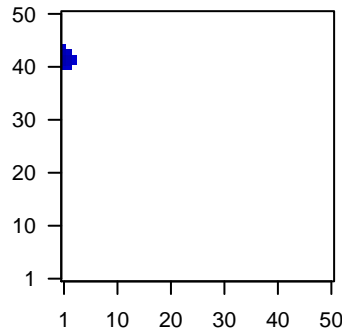
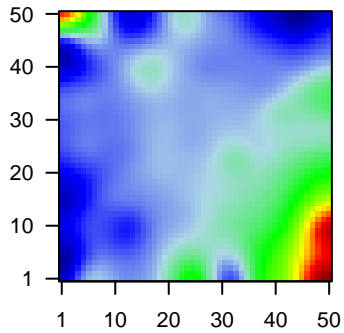
genes with $fdr < 0.1$ = 149 (11 + / 138 -)
 # genes with $fdr < 0.05$ = 126 (4 + / 122 -)
 # genes with $fdr < 0.01$ = 116 (4 + / 112 -)

$\langle r \rangle$ metagenes = 0.99
 $\langle r \rangle$ genes = 0.36

$\langle FC \rangle = -0.42$
 $\langle \text{shrinkage-t} \rangle = -14.75$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.4$

Profile

Spot



Local Genelist

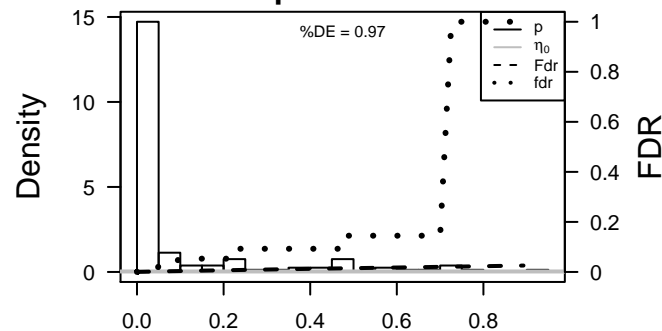
Rank	ID	log(FC)	fdr	p-value	Description
1	55214	-1.82	2e-16	5e-16	1 x 42 leprecan-like 1 [Source:HGNC Symbol;Acc:19317]
2	5744	-1.48	2e-16	5e-16	1 x 43 parathyroid hormone-like hormone [Source:HGNC Symbol;A
3	2697	-1.13	4e-13	2e-12	1 x 44 gap junction protein, alpha 1, 43kDa [Source:HGNC Symbol;]
4	6513	-1.12	9e-13	2e-12	1 x 43 solute carrier family 2 (facilitated glucose transporter), membr
5	144406	-1.11	1e-12	8e-12	1 x 42 WD repeat domain 66 [Source:HGNC Symbol;Acc:28506]
6	1001	-1.09	3e-12	2e-09	1 x 43 cadherin 3, type 1, P-cadherin (placental) [Source:HGNC Sy
7	56901	-0.98	4e-10	5e-09	1 x 44 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-li
8	3429	-0.87	2e-09	1e-08	1 x 42 interferon, alpha-inducible protein 27 [Source:HGNC Symbol
9	5947	-0.91	7e-09	1e-08	1 x 43 retinol binding protein 1, cellular [Source:HGNC Symbol;Acc:
10	10397	-0.83	8e-09	9e-08	1 x 42 N-myc downstream regulated 1 [Source:HGNC Symbol;Acc:
11	50805	-0.86	3e-08	9e-08	1 x 43 iroquois homeobox 4 [Source:HGNC Symbol;Acc:6129]
12	4015	-0.85	5e-08	1e-07	1 x 41 lysyl oxidase [Source:HGNC Symbol;Acc:6664]
13	1288	-0.84	9e-08	1e-07	1 x 43 collagen, type IV, alpha 6 [Source:HGNC Symbol;Acc:2208]
14	387882	-0.82	1e-07	1e-07	2 x 41 chromosome 12 open reading frame 75 [Source:HGNC Synt
15	3664	-0.82	1e-07	1e-06	1 x 41 interferon regulatory factor 6 [Source:HGNC Symbol;Acc:612
16	3552	0.79	4e-07	2e-06	1 x 43 interleukin 1, alpha [Source:HGNC Symbol;Acc:5991]
17	4233	-0.76	1e-06	2e-06	1 x 41 met proto-oncogene [Source:HGNC Symbol;Acc:7029]
18	1952	-0.75	1e-06	2e-06	1 x 40 cadherin, EGF LAG seven-pass G-type receptor 2 [Source:+
19	81706	-0.74	2e-06	2e-06	1 x 43 protein phosphatase 1, regulatory (inhibitor) subunit 14C [So
20	116211	-0.73	3e-06	2e-06	1 x 43 Transmembrane 4 L6 family member 19 [Source:UniProtKB/!

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-23.56	NULL	2 / 2	miRNA target-199a*
2	-15.35	NULL	4 / 16	GSEA C2ELVIDGE_HIF1A_TARGETS_DN
3	-14.77	NULL	2 / 6	GSEA C2WALLACE_PROSTATE_CANCER_DN
4	-14.71	NULL	4 / 16	GSEA C2ELVIDGE_HIF1A_AND_HIF2A_TARGETS_DN
5	-12.31	NULL	2 / 15	GSEA C2NGUYEN_NOTCH1_TARGETS_UP
6	-11.97	NULL	2 / 11	GSEA C2BIOCARTA_VITCB_PATHWAY
7	-11.87	NULL	4 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
8	-11.68	NULL	1 / 7	GSEA C2BEGUM_TARGETS_OF_PAX3_FOXP01_FUSION_AND_PAX3
9	-11.5	NULL	2 / 8	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_UP
10	-11.49	NULL	2 / 10	MF gap junction channel activity
11	-11.19	NULL	2 / 16	GSEA C2WILLERT_WNT_SIGNALING
12	-11.03	NULL	3 / 16	GSEA C2ELVIDGE_HYPOXIA_BY_DMOG_UP
13	-10.78	NULL	2 / 8	GSEA C2SIBULAN_UV_RESPONSE_NORMAL_UP
14	-10.72	NULL	1 / 5	GSEA C2RODRIGUES_DCC_TARGETS_UP
15	-10.35	NULL	1 / 4	MMML C2SCIEJ_MMML_47
16	-10.26	NULL	4 / 32	CC cell-cell adherens junction
17	-10.12	NULL	2 / 16	GSEA C2BECKER_TAMOXIFEN_RESISTANCE_DN
18	-9.91	NULL	3 / 15	GSEA C2FRAMONJAGO_SOX4_TARGETS_UP
19	-9.88	NULL	2 / 19	MF L-ascorbic acid binding
20	-9.83	NULL	2 / 12	GSEA C2REACTOME_GAP_JUNCTION_ASSEMBLY
21	-9.81	NULL	7 / 76	BP epidermis development
22	-9.77	NULL	1 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP
23	-9.64	NULL	2 / 14	GSEA C2ANHARANTA_UTERINE_FIBROID_DN
24	-9.57	NULL	7 / 85	Glio laffaire_hypermeth_LGG_vs_control
25	-9.49	NULL	1 / 10	BP surfactant homeostasis
26	-9.25	NULL	4 / 12	BP hemidesmosome assembly
27	-9.2	NULL	2 / 11	GSEA C2SAUSSMANN_MLL_AF4_FUSION_TARGETS_G_UP
28	-8.96	NULL	3 / 26	BP positive regulation of vasodilation
29	-8.93	NULL	8 / 112	Glio Christensen_hypermethylated_in_grade2_oligoastrocytoma
30	-8.9	NULL	3 / 20	MF scaffold protein binding
31	-8.76	NULL	3 / 15	GSEA C2FARMER_BREAST_CANCER_CLUSTER_3
32	-8.65	NULL	2 / 15	CC connexon complex
33	-8.62	NULL	1 / 5	GSEA C2YNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_4NC
34	-8.58	NULL	6 / 83	CC basement membrane
35	-8.48	NULL	2 / 15	GSEA C2AMIT_EGF_RESPONSE_240_MCF10A
36	-8.44	NULL	3 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_4
37	-8.4	NULL	1 / 2	miRNA target-346
38	-8.34	NULL	1 / 4	miRNA target-206
39	-8.33	NULL	2 / 10	GSEA C2AZARD_UV_RESPONSE_CLUSTER_G3
40	-8.32	NULL	3 / 12	GSEA C2MIZUKAMI_HYPOXIA_UP

p-values



GW_040

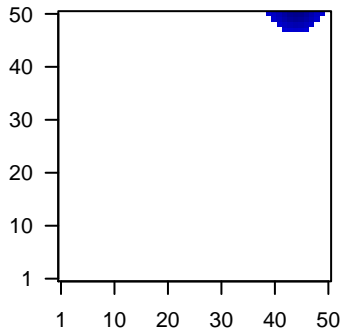
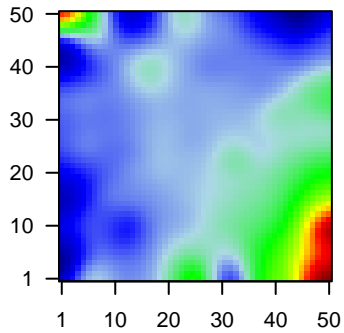
Local Summary

%DE = 0.78
 # metagenes = 32
 # genes = 465
 # genes in genesets = 462
 # genes with $fdr < 0.1 = 264$ (3 + / 261 -)
 # genes with $fdr < 0.05 = 210$ (1 + / 209 -)
 # genes with $fdr < 0.01 = 115$ (1 + / 114 -)

$\langle r \rangle$ metagenes = 0.89
 $\langle r \rangle$ genes = 0.34
 $\langle FC \rangle = -0.33$
 $\langle \text{shrinkage-t} \rangle = -11.58$
 $\langle p\text{-value} \rangle = 0.01$
 $\langle fdr \rangle = 0.61$

Profile

Spot



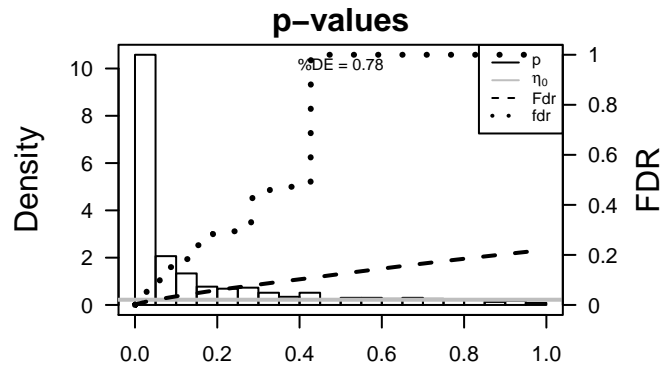
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	51659	-1.18	5e-14	1e-08	44 x 50 GINS complex subunit 2 (Psf2 homolog) [Source:HGNC Sym
2	7037	-0.93	1e-10	3e-08	47 x 50 transferrin receptor [Source:HGNC Symbol;Acc:11763]
3	81831	-0.98	4e-10	4e-08	42 x 50 neuropilin (NRP) and tolloid (TLL)-like 2 [Source:HGNC Sym
4	1894	-0.96	8e-10	1e-06	45 x 50 epithelial cell transforming sequence 2 oncogene [Source:HG
5	152002	-0.88	2e-08	1e-06	48 x 50 xyloside xylosyltransferase 1 [Source:HGNC Symbol;Acc:266
6	55839	-0.88	2e-08	3e-06	44 x 50 centromere protein N [Source:HGNC Symbol;Acc:30873]
7	55689	-0.85	5e-08	4e-06	46 x 50 YEATS domain containing 2 [Source:HGNC Symbol;Acc:2541
8	8318	-0.83	1e-07	4e-06	45 x 49 cell division cycle 45 [Source:HGNC Symbol;Acc:1739]
9	54443	-0.82	1e-07	4e-06	43 x 50 anillin, actin binding protein [Source:HGNC Symbol;Acc:1408
10	10643	-0.82	2e-07	2e-05	48 x 50 insulin-like growth factor 2 mRNA binding protein 3 [Source:HG
11	86	-0.78	6e-07	2e-05	46 x 50 actin-like 6A [Source:HGNC Symbol;Acc:24124]
12	200810	-0.78	7e-07	2e-05	49 x 50 ALG1, chitobiosylidiphosphodolichol beta-mannosyltransferas
13	9319	-0.77	8e-07	2e-05	43 x 50 thyroid hormone receptor interactor 13 [Source:HGNC Symbx
14	9787	-0.77	9e-07	2e-05	43 x 50 discs, large (Drosophila) homolog-associated protein 5 [Sour
15	55165	-0.77	9e-07	3e-05	44 x 50 centrosomal protein 55kDa [Source:HGNC Symbol;Acc:11611
16	116832	-0.76	1e-06	6e-05	46 x 50 ribosomal protein L39-like [Source:HGNC Symbol;Acc:17094
17	28978	-0.74	2e-06	6e-05	49 x 50 transmembrane protein 14A [Source:HGNC Symbol;Acc:2101
18	3992	-0.73	3e-06	6e-05	45 x 50 fatty acid desaturase 1 [Source:HGNC Symbol;Acc:3574]
19	1033	-0.72	4e-06	6e-05	43 x 50 cyclin-dependent kinase inhibitor 3 [Source:HGNC Symbol;A
20	51319	-0.72	4e-06	6e-05	43 x 50 arginine/serine-rich coiled-coil 1 [Source:HGNC Symbol;Acc

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-51	NULL	87 / 142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	-51	NULL	87 / 142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	-25.49	NULL	15 / 16	GSEA C2FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL
4	-24.27	NULL	97 / 370	BP mitotic cell cycle
5	-24.07	NULL	11 / 13	GSEA C2CROONQUIST_IL6_DEPRIVATION_DN
6	-23.98	NULL	23 / 57	Glio developing astrocytes
7	-23.58	NULL	14 / 15	GSEA C2FINETTI_BREAST_CANCER_KINOME_RED
8	-22.64	NULL	12 / 14	MMML C2SCIEJ_MMML_4
9	-22.45	NULL	92 / 530	Cancer Lembcke_Normal vs Adenoma
10	-21.14	NULL	13 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_2
11	-19.85	NULL	8 / 10	GSEA C2MONTERO_THYROID_CANCER_POOR_SURVIVAL_UP
12	-19.55	NULL	12 / 18	BP spindle organization
13	-19.46	NULL	9 / 15	GSEA C2SMID_BREAST_CANCER_LUMINAL_A_DN
14	-19.35	NULL	10 / 14	GSEA C2ZHAN_MULTIPLE_MYELOMA_PR_UP
15	-18.79	NULL	11 / 15	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
16	-18.69	NULL	8 / 14	GSEA C2AMUNDSON_GAMMA_RADIATION_RESPONSE
17	-18.56	NULL	9 / 14	GSEA C2ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
18	-18.53	NULL	69 / 572	Disease GUDJ_psooriasis_up
19	-18.42	NULL	9 / 15	GSEA C2LEE_EARLY_T_LYMPHOCYTE_UP
20	-18.15	NULL	10 / 16	GSEA C2KANG_DOXORUBICIN_RESISTANCE_UP
21	-17.94	NULL	10 / 16	GSEA C2CROONQUIST_NRAS_SIGNALING_DN
22	-17.8	NULL	11 / 15	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
23	-17.63	NULL	12 / 16	GSEA C2EGUCHI_CELL_CYCLE_RB1_TARGETS
24	-17.37	NULL	10 / 16	GSEA C2REACTOME_G2_M_CHECKPOINTS
25	-16.81	NULL	8 / 15	GSEA C2WU_APOPTOSIS_BY_CDKN1A_VIA_TP53
26	-16.79	NULL	9 / 15	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_DN
27	-16.7	NULL	48 / 232	BP mitosis
28	-16.62	NULL	11 / 16	Cancer WOLFER_overlap genes
29	-16.41	NULL	7 / 11	GSEA C2ODONNELL_TFRC_TARGETS_DN
30	-16.07	NULL	8 / 16	GSEA C2REACTOME_DNA_STRAND_ELONGATION
31	-16	NULL	38 / 149	BP DNA replication
32	-15.8	NULL	8 / 15	GSEA C2CHANG_CYCLING_GENES
33	-15.47	NULL	36 / 148	BP G1/S transition of mitotic cell cycle
34	-15.46	NULL	6 / 9	GSEA C2REACTOME_CELL_CYCLE_CHECKPOINTS
35	-15.4	NULL	9 / 16	GSEA C2GRAHAM_NORMAL QUIESCENT_VS_NORMAL_DIVIDING_DN
36	-15.38	NULL	20 / 56	CC chromosome, centromeric region
37	-15.2	NULL	8 / 15	GSEA C2ODONNELL_TARGETS_OF_MYC_AND_TFRC_DN
38	-15.03	NULL	7 / 16	GSEA C2FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_DN
39	-14.81	NULL	8 / 15	GSEA C2BOYALT_LIVER_CANCER_SUBCLASS_G23_UP
40	-14.53	NULL	7 / 16	GSEA C2BENPORATH_PROLIFERATION



GW_040

Local Summary

%DE = 0.85
 # metagenes = 1
 # genes = 28
 # genes in genesets = 28
 # genes with $fdr < 0.1$ = 18 (1 + / 17 -)
 # genes with $fdr < 0.05$ = 18 (1 + / 17 -)
 # genes with $fdr < 0.01$ = 10 (1 + / 9 -)

<r> metagenes = NA

<r> genes = 0.31

<FC> = -0.33

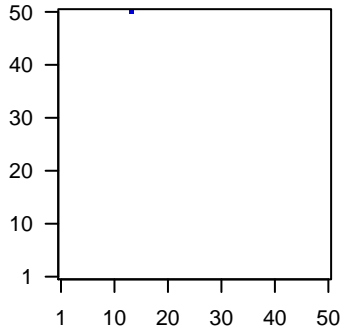
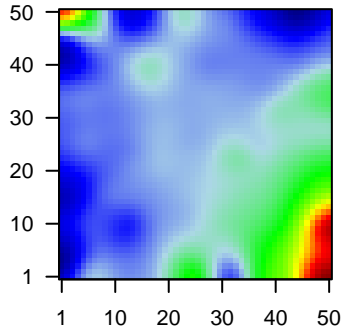
<shrinkage-t> = -11.59

<p-value> = 0.01

<fdr> = 0.58

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	5217	-0.89	1e-08	1e-06	14 x 50 profilin 2 [Source:HGNC Symbol;Acc:8882]
2	57007	-0.8	3e-07	1e-06	14 x 50 atypical chemokine receptor 3 [Source:HGNC Symbol;Acc:23
3	100288413	-0.78	5e-07	9e-05	14 x 50 endogenous retrovirus group MER34, member 1 [Source:HG
4	56666	-0.66	2e-05	9e-05	14 x 50 pannexin 2 [Source:HGNC Symbol;Acc:8600]
5	386757	-0.64	4e-05	7e-04	14 x 50 solute carrier family 6 (neurotransmitter transporter), member
6	2817	-0.58	2e-04	2e-03	14 x 50 glypican 1 [Source:HGNC Symbol;Acc:4449]
7	1399	-0.54	6e-04	5e-03	14 x 50 v-crk avian sarcoma virus CT10 oncogene homolog-like [So
8	200933	-0.47	2e-03	5e-03	14 x 50 F-box protein 45 [Source:HGNC Symbol;Acc:29148]
9	5909	0.45	4e-03	5e-03	14 x 50 RAP1 GTPase activating protein [Source:HGNC Symbol;Acc:
10	7296	-0.45	4e-03	7e-03	14 x 50 thioredoxin reductase 1 [Source:HGNC Symbol;Acc:12437]
11	9048	-0.43	6e-03	3e-02	14 x 50 artemin [Source:HGNC Symbol;Acc:727]
12	23428	-0.35	2e-02	3e-02	14 x 50 solute carrier family 7 (amino acid transporter light chain, L s)
13	9069	-0.35	2e-02	3e-02	14 x 50 claudin 12 [Source:HGNC Symbol;Acc:2034]
14	1981	-0.34	3e-02	4e-02	14 x 50 eukaryotic translation initiation factor 4 gamma, 1 [Source:HG
15	3005	-0.32	4e-02	4e-02	14 x 50 H1 histone family, member 0 [Source:HGNC Symbol;Acc:471
16	493861	-0.3	6e-02	4e-02	14 x 50 EP300 interacting inhibitor of differentiation 3 [Source:HGNC
17	131408	-0.29	6e-02	4e-02	14 x 50 family with sequence similarity 131, member A [Source:HGNC
18	8323	-0.28	7e-02	4e-02	14 x 50 frizzled family receptor 6 [Source:HGNC Symbol;Acc:4044]
19	4055	-0.28	7e-02	1e-01	14 x 50 lymphotoxin beta receptor (TNFR superfamily, member 3) [Sc
20	3836	-0.26	1e-01	2e-01	14 x 50 karyopherin alpha 1 (importin alpha 5) [Source:HGNC Symbc

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-16.8	NULL	1 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_DN
2	-14.98	NULL	1 / 12	BP negative regulation of intrinsic apoptotic signaling pathway in respo
3	-14.44	NULL	2 / 15	miRNA target set miR-320a
4	-12.3	NULL	1 / 12	MF channel activity
5	-12.1	NULL	1 / 10	BP negative regulation of fibroblast growth factor receptor signaling pa
6	-11.72	NULL	1 / 13	BP response to ischemia
7	-11.4	NULL	2 / 41	miRNA target set miR-565-3p
8	-11.23	NULL	2 / 11	GSEA C2REACTOME_APOPTOSIS_INDUCED_DNA_FRAGMENTATION
9	-11.21	NULL	1 / 14	GSEA C2NIKOLSKY_BREAST_CANCER_22Q13_AMPLICON
10	-11.11	NULL	2 / 56	miRNA target set miR-161-3p
11	-10.82	NULL	1 / 12	MF heparan sulfate proteoglycan binding
12	-10.75	NULL	1 / 21	BP chemokine-mediated signaling pathway
13	-10.46	NULL	1 / 22	MF coreceptor activity
14	-9.85	NULL	1 / 14	GSEA C2REACTOME_ACTIVATION_OF_RAC
15	-9.76	NULL	1 / 30	miRNA target set miR-346
16	-9.58	NULL	1 / 31	BP positive regulation of actin filament polymerization
17	-9.41	NULL	1 / 32	CC terminal bouton
18	-9.2	NULL	4 / 147	CC endosome
19	-9.12	NULL	1 / 14	GSEA C2BIOCARTA_PYK2_PATHWAY
20	-9.12	NULL	1 / 14	GSEA C2S_DIFFERENTIATION_PATHWAY_IN_PC12_CELLS
21	-9.12	NULL	1 / 14	miRNA target set miR-342*
22	-8.95	NULL	1 / 7	miRNA target set miR-341
23	-8.92	NULL	1 / 29	BP receptor internalization
24	-8.82	NULL	1 / 21	CC gap junction
25	-8.75	NULL	1 / 15	GSEA C2BIOCARTA_IL2RB_PATHWAY
26	-8.53	NULL	2 / 45	miRNA target set miR-488
27	-8.42	NULL	1 / 16	GSEA C2BIOCARTA_GLEEVEC_PATHWAY
28	-8.42	NULL	1 / 16	GSEA C2REACTOME_DOWN_STREAM_SIGNAL_TRANSDUCTION
29	-8.22	NULL	1 / 19	MF laminin binding
30	-8	NULL	1 / 14	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_UP
31	-7.97	NULL	1 / 20	MF fibroblast growth factor binding
32	-7.72	NULL	4 / 155	miRNA target set miR-302
33	-7.62	NULL	1 / 13	BP induction of positive chemotaxis
34	-7.61	NULL	1 / 9	miRNA target set miR-202*
35	-7.34	NULL	1 / 23	BP glycosaminoglycan catabolic process
36	-7.33	NULL	1 / 10	MF neutral amino acid transmembrane transporter activity
37	-7.12	NULL	1 / 43	MF scavenger receptor activity
38	-7.09	NULL	2 / 17	MF amino acid transmembrane transporter activity
39	-7.07	NULL	4 / 150	miRNA target set miR-333
40	-6.99	NULL	1 / 15	Pathw AcGUSTAFSON_PI3K_DN

