

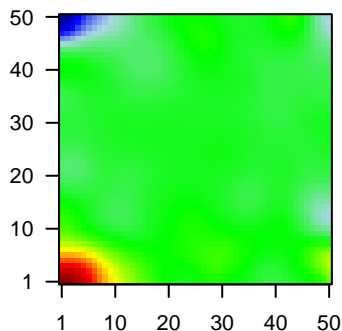
GW_272

Global Summary

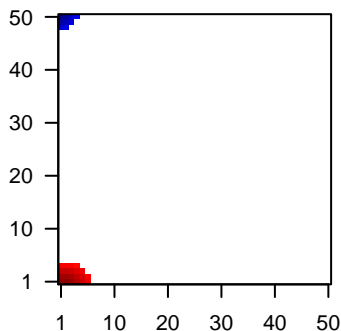
%DE = 0.15
 # genes with fdr < 0.2 = 2103 (1210 + / 893 -)
 # genes with fdr < 0.1 = 1709 (1003 + / 706 -)
 # genes with fdr < 0.05 = 1488 (878 + / 610 -)
 # genes with fdr < 0.01 = 1124 (684 + / 440 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.06
 <fdr> = 0.85

Profile



Regulated Spots



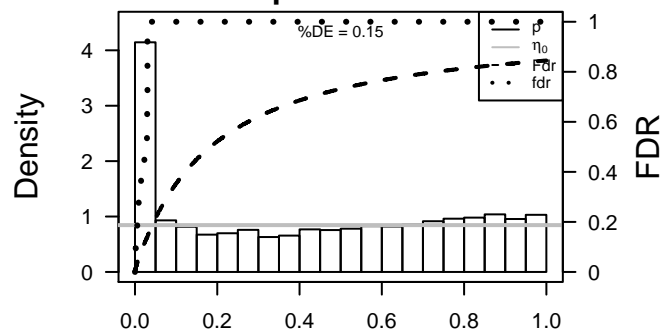
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	-1.7	2e-16	1e-14	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	154664	-1.49	2e-16	1e-14	50 x 50 ATP-binding cassette, sub-family A (ABC1), member 13 [So
3	59	1.54	2e-16	1e-14	3 x 1 actin, alpha 2, smooth muscle, aorta [Source:HGNC Symbol;
4	9510	1.34	2e-16	1e-14	6 x 1 ADAM metallopeptidase with thrombospondin type 1 motif, 1
5	131	-2.59	2e-16	1e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
6	57016	-1.76	2e-16	1e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
7	216	-1.68	2e-16	1e-14	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC
8	218	-2.58	2e-16	1e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
9	222	-1.97	2e-16	1e-14	1 x 49 aldehyde dehydrogenase 3 family, member B2 [Source:HGNC
10	242	-1.58	2e-16	1e-14	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syn
11	241	1.32	2e-16	1e-14	50 x 1 arachidonate 5-lipoxygenase-activating protein [Source:HGNC
12	249	1.63	2e-16	1e-14	6 x 1 alkaline phosphatase, liver/bone/kidney [Source:HGNC Symb
13	118932	-1.39	2e-16	1e-14	4 x 50 ankyrin repeat domain 22 [Source:HGNC Symbol;Acc:28321]
14	55107	1.61	2e-16	1e-14	1 x 5 anoctamin 1, calcium activated chloride channel [Source:HGNC
15	164284	1.63	2e-16	1e-14	1 x 3 adenomatosis polyposis coli down-regulated 1-like [Source:t
16	187	1.66	2e-16	1e-14	5 x 1 apelin receptor [Source:HGNC Symbol;Acc:339]
17	81575	1.39	2e-16	1e-14	7 x 1 apolipoprotein L domain containing 1 [Source:HGNC Symbol;
18	366	2.16	2e-16	1e-14	1 x 1 aquaporin 9 [Source:HGNC Symbol;Acc:643]
19	23120	-1.47	2e-16	1e-14	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543]
20	64651	1.52	2e-16	1e-14	6 x 2 cysteine-serine-rich nuclear protein 1 [Source:HGNC Symbc

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	21.93	NULL	250	LymphomaTENZ_Stromal signature 1
2	21.09	NULL	190	CC extracellular matrix
3	19.76	NULL	242	BP extracellular matrix organization
4	18.64	NULL	265	Glio willscher_GBM_Verhaak-CL_expression_B_up
5	18.64	NULL	265	Glio willscher_GBM_Verhaak-MES_expression_B_up
6	18.64	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
7	18.64	NULL	265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
8	17.9	NULL	553	Cancer Lembecke_Colonc Inflammation
9	15.52	NULL	69	BP extracellular matrix disassembly
10	15.24	NULL	16	MMML C21CIEJ_MMML 1
11	14.89	NULL	683	CC extracellular space
12	14.08	NULL	15	GSEA C2CROMER_TUMORIGENESIS_UP
13	13.72	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
14	13.38	NULL	64	BP collagen catabolic process
15	12.48	NULL	403	BP cell adhesion
16	12.46	NULL	183	CC proteinaceous extracellular matrix
17	12.32	NULL	11	MF platelet-derived growth factor binding
18	12.17	NULL	57	MF extracellular matrix structural constituent
19	11.73	NULL	1182	CC extracellular region
20	11.7	NULL	153	CC endoplasmic reticulum lumen
<i>Underexpressed</i>				
1	-30.13	NULL	135	H.Tiss WIRTH_Mucosa
2	-19.44	NULL	21	CC cornified envelope
3	-16.63	NULL	42	BP keratinization
4	-13.76	NULL	53	BP keratinocyte differentiation
5	-12.97	NULL	76	BP epidermis development
6	-10.36	NULL	8	GSEA C21U_CDX2_TARGETS_DN
7	-10.31	NULL	16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
8	-9.56	NULL	15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
9	-8.79	NULL	572	Disease GUDJ_poriasis up
10	-7.72	NULL	19	BP peptide cross-linking
11	-7.39	NULL	10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
12	-7.34	NULL	16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
13	-7.32	NULL	13	H.Tiss WIRTH_Tonsil
14	-7.11	NULL	16	GSEA C2IAEGER_METASTASIS_DN
15	-6.96	NULL	21	CC desmosome
16	-6.95	NULL	12	BP cellular aldehyde metabolic process
17	-6.87	NULL	82	CC intermediate filament
18	-6.87	NULL	16	GSEA C2ONDER_CDH1_TARGETS_3_DN
19	-6.85	NULL	6	GSEA C2SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN
20	-6.73	NULL	8	GSEA C2RUNNE_GENDER_EFFECT_UP

p-values



GW_272

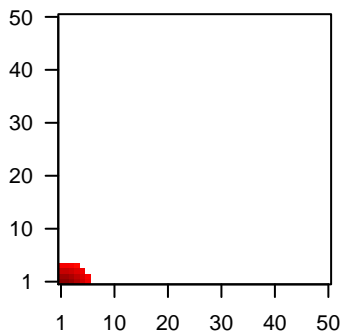
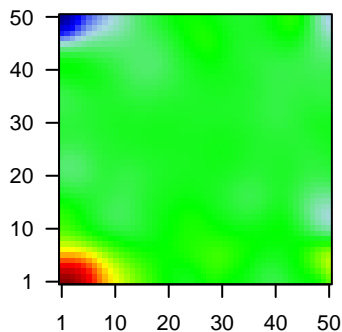
Local Summary

%DE = 0.99
 # metagenes = 21
 # genes = 314
 # genes in genesets = 313
 # genes with fdr < 0.1 = 306 (301 + / 5 -)
 # genes with fdr < 0.05 = 302 (298 + / 4 -)
 # genes with fdr < 0.01 = 298 (294 + / 4 -)

<r> metagenes = 0.95
 <r> genes = 0.38
 <FC> = 1.13
 <shrinkage-t> = 39.77
 <p-value> = 0
 <fdr> = 0.05

Profile

Spot



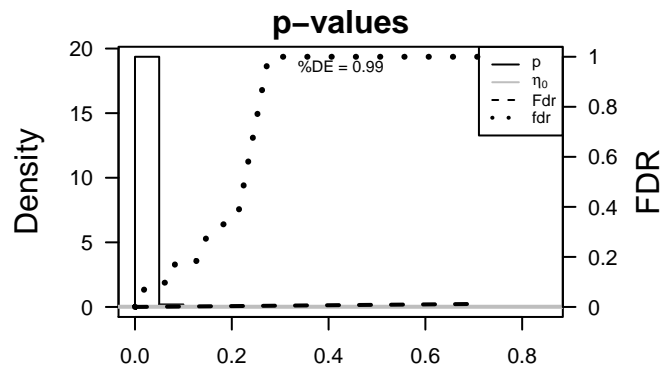
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	59	1.54	2e-16	1e-17	3 x 1 actin, alpha 2, smooth muscle, aorta [Source:HGNC Symbol;]
2	9510	1.34	2e-16	1e-17	6 x 1 ADAM metallopeptidase with thrombospondin type 1 motif, 1
3	249	1.63	2e-16	1e-17	6 x 1 alkaline phosphatase, liver/bone/kidney [Source:HGNC Symb
4	164284	1.63	2e-16	1e-17	1 x 3 adenomatosis polyposis coli down-regulated 1-like [Source:t
5	187	1.66	2e-16	1e-17	5 x 1 apelin receptor [Source:HGNC Symbol;Acc:339]
6	366	2.16	2e-16	1e-17	1 x 1 aquaporin 9 [Source:HGNC Symbol;Acc:643]
7	64651	1.52	2e-16	1e-17	6 x 2 cysteine-serine-rich nuclear protein 1 [Source:HGNC Symbc
8	633	1.63	2e-16	1e-17	3 x 1 biglycan [Source:HGNC Symbol;Acc:1044]
9	6348	1.59	2e-16	1e-17	4 x 4 chemokine (C-C motif) ligand 3 [Source:HGNC Symbol;Acc:
10	414062	2.22	2e-16	1e-17	1 x 1 chemokine (C-C motif) ligand 3-like 3 [Source:HGNC Symbc
11	22918	1.65	2e-16	1e-17	4 x 1 CD93 molecule [Source:HGNC Symbol;Acc:15855]
12	1009	1.35	2e-16	1e-17	3 x 1 cadherin 11, type 2, OB-cadherin (osteoblast) [Source:HGNC
13	1306	1.64	2e-16	1e-17	4 x 1 collagen, type XV, alpha 1 [Source:HGNC Symbol;Acc:2192]
14	1277	2.01	2e-16	1e-17	2 x 1 collagen, type I, alpha 1 [Source:HGNC Symbol;Acc:2197]
15	1278	2.14	2e-16	1e-17	2 x 1 collagen, type I, alpha 2 [Source:HGNC Symbol;Acc:2198]
16	1281	1.98	2e-16	1e-17	2 x 1 collagen, type III, alpha 1 [Source:HGNC Symbol;Acc:2201]
17	1282	1.76	2e-16	1e-17	2 x 1 collagen, type IV, alpha 1 [Source:HGNC Symbol;Acc:2202]
18	1284	1.42	2e-16	1e-17	2 x 1 collagen, type IV, alpha 2 [Source:HGNC Symbol;Acc:2203]
19	1289	2.15	2e-16	1e-17	2 x 1 collagen, type V, alpha 1 [Source:HGNC Symbol;Acc:2209]
20	1290	1.7	2e-16	1e-17	2 x 1 collagen, type V, alpha 2 [Source:HGNC Symbol;Acc:2210]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	36.34	NULL	68 / 190	CC extracellular matrix
2	34.51	NULL	82 / 250	Lymphoma ENZ_Stromal signature 1
3	34.06	NULL	15 / 16	MMML C69CIEJ_MMML 1
4	31.5	NULL	68 / 242	BP extracellular matrix organization
5	30.53	NULL	33 / 69	BP extracellular matrix disassembly
6	28	NULL	28 / 64	BP collagen catabolic process
7	27.49	NULL	12 / 16	GSEA C27FARMER_BREAST_CANCER_CLUSTER_5
8	27.11	NULL	11 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
9	26.52	NULL	8 / 11	MF platelet-derived growth factor binding
10	24.23	NULL	91 / 683	CC extracellular space
11	24.09	NULL	11 / 19	MF extracellular matrix binding
12	24.04	NULL	8 / 12	miRNA target-29c
13	23.16	NULL	117 / 1182	CC extracellular region
14	23.05	NULL	10 / 15	GSEA C2ONDER_CDH1_TARGETS_2_UP
15	22.35	NULL	74 / 553	Cancer Lembcke_Colonc Inflammation
16	21.49	NULL	20 / 57	MF extracellular matrix structural constituent
17	20.46	NULL	41 / 183	CC proteinaceous extracellular matrix
18	19.68	NULL	4 / 6	GSEA C2AGARWAL_AKT_PATHWAY_TARGETS
19	19.63	NULL	44 / 265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
20	19.63	NULL	44 / 265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
21	19.63	NULL	44 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
22	19.63	NULL	44 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
23	19.32	NULL	7 / 15	GSEA C2LEE_LIVER_CANCER_HEPATOBLAST
24	18.57	NULL	15 / 37	BP collagen fibril organization
25	18.22	NULL	3 / 6	Glio Martinez_Glio_hypometh
26	17.85	NULL	23 / 83	CC basement membrane
27	17.78	NULL	5 / 10	GSEA C2KEGG_ECM_RECEPTOR_INTERACTION
28	17.74	NULL	8 / 15	GSEA C2DASU_IL6_SIGNALING_SCAR_DN
29	17.46	NULL	4 / 9	GSEA C2ZERBINI_RESPONSE_TO_SULINDAC_UP
30	17.38	NULL	7 / 15	GSEA C2MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_UP
31	17.32	NULL	5 / 7	GSEA C2TSUNODA_CISPLATIN_RESISTANCE_UP
32	17.29	NULL	12 / 35	Glio Colman_survival_associated
33	17.19	NULL	6 / 13	GSEA C2TSAI_RESPONSE_TO_RADIATION_THERAPY
34	16.97	NULL	7 / 11	Glio Phillips MES up vs Prolif & PN
35	16.81	NULL	6 / 13	GSEA C2FRIDMAN_SENESCENCE_UP
36	16.6	NULL	6 / 10	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C4
37	16.59	NULL	7 / 16	GSEA C2CROONQUIST_STROMAL_STIMULATION_UP
38	16.42	NULL	24 / 119	Lymphoma BOSOLOWSKI_green total
39	16.38	NULL	18 / 68	CC collagen
40	16.3	NULL	7 / 16	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_T



GW_272

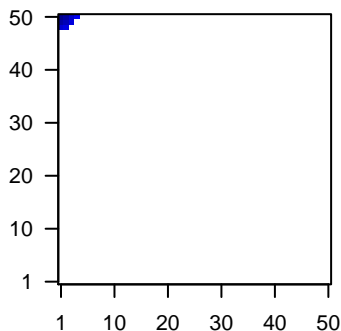
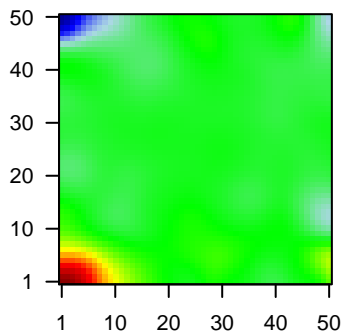
Local Summary

%DE = 0.92
 # metagenes = 9
 # genes = 159
 # genes in genesets = 156
 # genes with $fdr < 0.1$ = 144 (1 + / 143 -)
 # genes with $fdr < 0.05$ = 141 (1 + / 140 -)
 # genes with $fdr < 0.01$ = 136 (0 + / 136 -)

$\langle r \rangle$ metagenes = 0.99
 $\langle r \rangle$ genes = 0.5
 $\langle FC \rangle = -1.3$
 $\langle \text{shrinkage-t} \rangle = -46.19$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.11$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	-1.7	2e-16	4e-17	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	131	-2.59	2e-16	4e-17	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	57016	-1.76	2e-16	4e-17	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
4	218	-2.58	2e-16	4e-17	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
5	222	-1.97	2e-16	4e-17	1 x 49 aldehyde dehydrogenase 3 family, member B2 [Source:HGNC
6	242	-1.58	2e-16	4e-17	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Synt
7	118932	-1.39	2e-16	4e-17	4 x 50 ankyrin repeat domain 22 [Source:HGNC Symbol;Acc:28321]
8	23120	-1.47	2e-16	4e-17	1 x 50 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:13543]
9	387695	-2.15	2e-16	4e-17	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
10	375791	-2.24	2e-16	4e-17	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
11	810	-1.75	2e-16	4e-17	1 x 50 calmodulin-like 3 [Source:HGNC Symbol;Acc:1452]
12	51806	-1.97	2e-16	4e-17	4 x 50 calmodulin-like 5 [Source:HGNC Symbol;Acc:18180]
13	84290	-1.93	2e-16	4e-17	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
14	1048	-1.5	2e-16	4e-17	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
15	4680	-2.96	2e-16	4e-17	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (
16	22802	-2.45	2e-16	4e-17	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
17	9022	-1.45	2e-16	4e-17	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2
18	84518	-3.22	2e-16	4e-17	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
19	54544	-1.49	2e-16	4e-17	1 x 50 cysteine-rich C-terminal 1 [Source:HGNC Symbol;Acc:2987
20	49860	-2.53	2e-16	4e-17	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-56.88	NULL	67 / 135	H.Tiss WIRTH_Mucosa
2	-44.42	NULL	14 / 21	CC cornified envelope
3	-37.47	NULL	16 / 42	BP keratinization
4	-35.23	NULL	19 / 53	BP keratinocyte differentiation
5	-28.17	NULL	18 / 76	BP epidermis development
6	-26.81	NULL	8 / 19	BP peptide cross-linking
7	-24.88	NULL	70 / 572	Disease GUDJ_psooriasis up
8	-23.15	NULL	5 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
9	-19.52	NULL	5 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
10	-18.82	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
11	-16.27	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
12	-15.78	NULL	1 / 6	GSEA C2SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN
13	-14.99	NULL	3 / 15	GSEA C2CHANG_IMMORTALIZED_BY_HPV31_DN
14	-14.98	NULL	2 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
15	-14.76	NULL	4 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
16	-14.5	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
17	-13.53	NULL	2 / 11	GSEA C2MURAKAMI_UV_RESPONSE_6HR_DN
18	-13.2	NULL	13 / 186	MF structural molecule activity
19	-12.99	NULL	3 / 12	BP cellular aldehyde metabolic process
20	-12.66	NULL	4 / 10	MF RAGE receptor binding
21	-12.52	NULL	3 / 16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
22	-11.7	NULL	3 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
23	-11.52	NULL	3 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_DN
24	-11.4	NULL	3 / 16	GSEA C2CHEOK_RESPONSE_TO_MERCAPTOPYRINE_AND_LD_MTX_
25	-11.37	NULL	4 / 16	GSEA C2JAEGER_METASTASIS_DN
26	-11.31	NULL	3 / 13	GSEA C2FARMER_BREAST_CANCER_APOCRINE_VS_LUMINAL
27	-10.93	NULL	1 / 8	GSEA C2LIU_CDX2_TARGETS_DN
28	-10.74	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP
29	-10.58	NULL	3 / 16	GSEA C2LEE_LIVER_CANCER_ACOX1_UP
30	-10.56	NULL	6 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
31	-10.1	NULL	6 / 13	BP negative regulation of peptidase activity
32	-10.03	NULL	4 / 27	BP response to bacterium
33	-10.01	NULL	4 / 44	CC keratin filament
34	-9.88	NULL	2 / 8	GSEA C2MCLACHLAN_DENTAL_CARIES_UP
35	-9.75	NULL	5 / 21	CC desmosome
36	-9.61	NULL	4 / 23	MF peptidase inhibitor activity
37	-9.61	NULL	3 / 14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
38	-9.5	NULL	2 / 12	H.Tiss WIRTH_Prim. lymphoid organs
39	-9.45	NULL	3 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
40	-9.39	NULL	3 / 15	GSEA C2JIN_SILENCED_BY_TUMOR_MICROENVIRONMENT

p-values

