

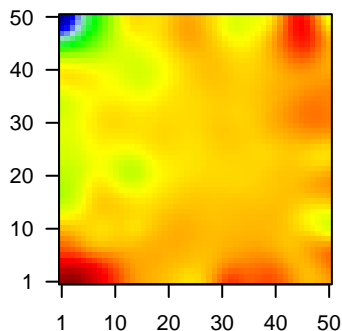
# GW\_152

## Global Summary

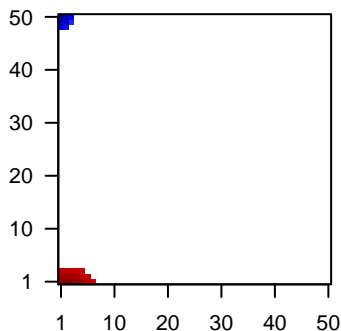
%DE = 0.16  
 # genes with  $fdr < 0.2$  = 2145 ( 1167 + / 978 - )  
 # genes with  $fdr < 0.1$  = 1732 ( 963 + / 769 - )  
 # genes with  $fdr < 0.05$  = 1330 ( 735 + / 595 - )  
 # genes with  $fdr < 0.01$  = 987 ( 531 + / 456 - )  
 # genes in genesets = 16332

<FC> = 0  
 <shrinkage-t> = 0  
 <p-value> = 0.08  
 <fdr> = 0.84

Profile



Regulated Spots



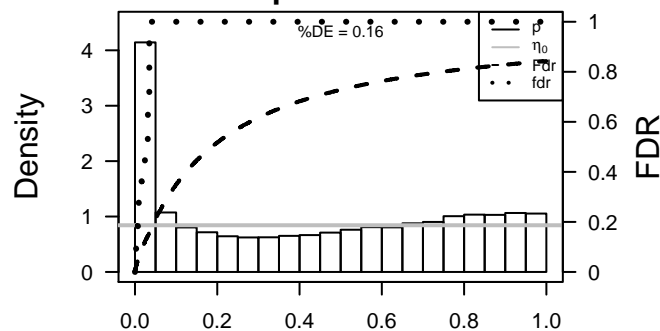
## Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	-1.95	2e-16	2e-14	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	131	-2.81	2e-16	2e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	57016	-2.11	2e-16	2e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
4	441282	-1.6	2e-16	2e-14	1 x 49 aldo-keto reductase family 1, member B15 [Source:HGNC S
5	1646	-1.84	2e-16	2e-14	13 x 50 aldo-keto reductase family 1, member C2 [Source:HGNC Syr
6	8644	-1.43	2e-16	2e-14	1 x 50 aldo-keto reductase family 1, member C3 [Source:HGNC Syr
7	1109	-2.18	2e-16	2e-14	13 x 50 aldo-keto reductase family 1, member C4 [Source:HGNC Syr
8	216	-1.39	2e-16	2e-14	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC
9	220	-1.84	2e-16	2e-14	4 x 46 aldehyde dehydrogenase 1 family, member A3 [Source:HGNC
10	218	-2.05	2e-16	2e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
11	222	-2.77	2e-16	2e-14	1 x 49 aldehyde dehydrogenase 3 family, member B2 [Source:HGNC
12	242	-1.54	2e-16	2e-14	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syr
13	118932	-1.38	2e-16	2e-14	4 x 50 ankyrin repeat domain 22 [Source:HGNC Symbol;Acc:28321]
14	9823	1.52	2e-16	2e-14	7 x 1 armadillo repeat containing, X-linked 2 [Source:HGNC Symb
15	633	1.28	2e-16	2e-14	3 x 1 biglycan [Source:HGNC Symbol;Acc:1044]
16	387695	-2.81	2e-16	2e-14	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Symt
17	343990	1.61	2e-16	2e-14	50 x 12 KIAA1211-like [Source:HGNC Symbol;Acc:33454]
18	375791	-2.5	2e-16	2e-14	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Symt
19	760	1.96	2e-16	2e-14	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
20	51806	1.5	2e-16	2e-14	4 x 50 calmodulin-like 5 [Source:HGNC Symbol;Acc:18180]

## Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	13.85	NULL	250	LymphomaTENZ_Stromal signature 1
2	13.69	NULL	190	CC extracellular matrix
3	13.13	NULL	242	BP extracellular matrix organization
4	12.58	NULL	69	BP extracellular matrix disassembly
5	12.02	NULL	16	MMML C6SCIEJ_MMML 1
6	11.78	NULL	11	MF platelet-derived growth factor binding
7	11.3	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
8	11.11	NULL	64	BP collagen catabolic process
9	9.7	NULL	83	CC basement membrane
10	9.35	NULL	8023	MF protein binding
11	9.19	NULL	142	Glio willscher_GBM_Verhaak-CL_expression_C_up
12	9.19	NULL	142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
13	9.08	NULL	57	MF extracellular matrix structural constituent
14	8.71	NULL	119	LymphomaTOSOLOWSKI_green total
15	8.67	NULL	4640	CC nucleus
16	8.45	NULL	370	BP mitotic cell cycle
17	8.39	NULL	13	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR
18	8.26	NULL	16	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL
19	8.24	NULL	68	CC collagen
20	7.87	NULL	37	BP collagen fibril organization
<i>Underexpressed</i>				
1	-34.78	NULL	135	H.Tiss WIRTH_Mucosa
2	-25.28	NULL	21	CC cornified envelope
3	-23.26	NULL	42	BP keratinization
4	-20.1	NULL	53	BP keratinocyte differentiation
5	-18.19	NULL	572	Disease GUDJ_pсориаsis up
6	-15.22	NULL	19	BP peptide cross-linking
7	-14.73	NULL	76	BP epidermis development
8	-13.42	NULL	16	GSEA C2ONDER_CDHI1_TARGETS_3_DN
9	-10.45	NULL	16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
10	-10.13	NULL	16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
11	-9.44	NULL	16	GSEA C2CROMER_TUMORIGENESIS_DN
12	-9.4	NULL	8	GSEA C2LIU_CDX2_TARGETS_DN
13	-8.98	NULL	186	MF structural molecule activity
14	-8.92	NULL	16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
15	-8.69	NULL	52	BP negative regulation of endopeptidase activity
16	-8.66	NULL	15	GSEA C2LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
17	-8.46	NULL	10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
18	-8.25	NULL	10	MF RAGE receptor binding
19	-8.16	NULL	16	GSEA C2JAEGER_METASTASIS_DN
20	-8.15	NULL	10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP

p-values



# GW\_152

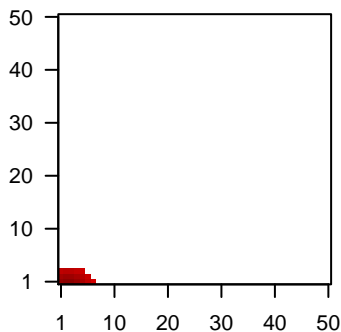
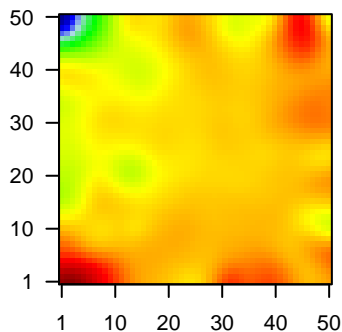
## Local Summary

%DE = 0.87  
 # metagenes = 18  
 # genes = 300  
 # genes in genesets = 299  
 # genes with  $fdr < 0.1 = 204$  ( 194 + / 10 - )  
 # genes with  $fdr < 0.05 = 201$  ( 191 + / 10 - )  
 # genes with  $fdr < 0.01 = 177$  ( 169 + / 8 - )

<r> metagenes = 0.96  
 <r> genes = 0.4  
 <FC> = 0.58  
 <shrinkage-t> = 20.21  
 <p-value> = 0  
 <fdr> = 0.36

Profile

Spot



## Local Genelist

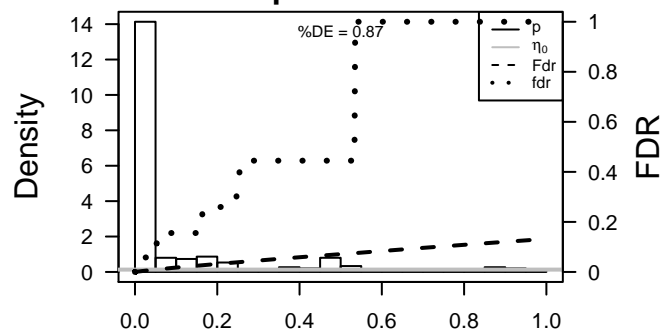
Rank	ID	log(FC)	fdr	p-value	Description
1	9823	1.52	2e-16	4e-16	7 x 1 armadillo repeat containing, X-linked 2 [Source:HGNC Symbol]
2	633	1.28	2e-16	4e-16	3 x 1 biglycan [Source:HGNC Symbol;Acc:1044]
3	57124	1.52	2e-16	4e-16	3 x 1 CD248 molecule, endosialin [Source:HGNC Symbol;Acc:182]
4	1277	1.72	2e-16	4e-16	2 x 1 collagen, type I, alpha 1 [Source:HGNC Symbol;Acc:2197]
5	1278	1.93	2e-16	4e-16	2 x 1 collagen, type I, alpha 2 [Source:HGNC Symbol;Acc:2198]
6	1281	1.81	2e-16	4e-16	2 x 1 collagen, type III, alpha 1 [Source:HGNC Symbol;Acc:2201]
7	1289	1.97	2e-16	4e-16	2 x 1 collagen, type V, alpha 1 [Source:HGNC Symbol;Acc:2209]
8	1290	1.74	2e-16	4e-16	2 x 1 collagen, type V, alpha 2 [Source:HGNC Symbol;Acc:2210]
9	1291	2.05	2e-16	4e-16	2 x 1 collagen, type VI, alpha 1 [Source:HGNC Symbol;Acc:2211]
10	1293	1.81	2e-16	4e-16	2 x 1 collagen, type VI, alpha 3 [Source:HGNC Symbol;Acc:2213]
11	84624	1.51	2e-16	4e-16	3 x 1 fibronectin type III domain containing 1 [Source:HGNC Symbol]
12	2619	1.98	2e-16	4e-16	2 x 1 growth arrest-specific 1 [Source:HGNC Symbol;Acc:4165]
13	3569	1.76	2e-16	4e-16	1 x 1 interleukin 6 (interferon, beta 2) [Source:HGNC Symbol;Acc:6]
14	4060	1.53	2e-16	4e-16	2 x 1 lumican [Source:HGNC Symbol;Acc:6724]
15	4312	1.51	2e-16	4e-16	1 x 1 matrix metalloproteinase 1 (interstitial collagenase) [Source:HGNC Symbol]
16	4314	1.4	2e-16	4e-16	1 x 1 matrix metalloproteinase 3 (stromelysin 1, progelatinase) [Source:HGNC Symbol]
17	4318	1.61	2e-16	4e-16	1 x 1 matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 9: [Source:HGNC Symbol]
18	25878	1.58	2e-16	4e-16	3 x 1 matrix-remodelling associated 5 [Source:HGNC Symbol;Acc:2213]
19	5156	1.67	2e-16	4e-16	5 x 1 platelet-derived growth factor receptor, alpha polypeptide [Source:HGNC Symbol]
20	5159	1.52	2e-16	4e-16	3 x 1 platelet-derived growth factor receptor, beta polypeptide [Source:HGNC Symbol]

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	41.63	NULL	14 / 16	MMML1
2	41.41	NULL	8 / 11	platelet-derived growth factor binding
3	41.22	NULL	69 / 190	CC extracellular matrix
4	39.19	NULL	82 / 250	Lymphocyte Stromal signature 1
5	36.76	NULL	12 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
6	33.89	NULL	31 / 69	BP extracellular matrix disassembly
7	33.16	NULL	64 / 242	BP extracellular matrix organization
8	32.5	NULL	27 / 64	BP collagen catabolic process
9	28.61	NULL	8 / 12	miRNA target-29c
10	28.09	NULL	21 / 57	MF extracellular matrix structural constituent
11	25.4	NULL	11 / 19	MF extracellular matrix binding
12	23.91	NULL	11 / 15	GSEA C2ONDER_CDH1_TARGETS_2_UP
13	23.41	NULL	6 / 13	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_CARCINOMA
14	23.15	NULL	14 / 37	BP collagen fibril organization
15	22.71	NULL	5 / 10	GSEA C2KEGG_ECM_RECEPTOR_INTERACTION
16	22.36	NULL	7 / 16	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_CARCINOMA
17	22.24	NULL	10 / 40	BP cellular response to amino acid stimulus
18	21.04	NULL	4 / 10	BP protein heterotrimerization
19	20.71	NULL	39 / 183	CC proteinaceous extracellular matrix
20	20.25	NULL	11 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
21	20.21	NULL	7 / 16	GSEA C2ROZANOV_MMP14_TARGETS_SUBSET
22	20.2	NULL	16 / 68	CC collagen
23	19.37	NULL	4 / 8	GSEA C2HAEGERSTRAND_RESPONSE_TO_IMATINIB
24	18.71	NULL	7 / 15	GSEA C2MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_UP
25	18.61	NULL	5 / 15	GSEA C2ZHANG_POU5F1_TARGETS_UP
26	18.34	NULL	4 / 12	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C2
27	17.92	NULL	21 / 119	Lymphocyte SOLOWSKI_green total
28	17.69	NULL	83 / 683	CC extracellular space
29	17.69	NULL	113 / 1182	CC extracellular region
30	17.68	NULL	7 / 16	GSEA C2CROONQUIST_STROMAL_STIMULATION_UP
31	17.49	NULL	5 / 16	GSEA C2REACTOME_SIGNALING_BY_PDGF
32	17.42	NULL	4 / 15	GSEA C2REACTOME_NCAM1_INTERACTIONS
33	17.38	NULL	5 / 13	GSEA C2PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
34	17.36	NULL	23 / 153	CC endoplasmic reticulum lumen
35	17.33	NULL	21 / 83	CC basement membrane
36	17.19	NULL	5 / 15	GSEA C2TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_DUCTAL_CARCINOMA
37	16.81	NULL	4 / 16	GSEA C2REACTOME_AXON_GUIDANCE
38	16.81	NULL	4 / 16	GSEA C2REACTOME_NCAM_SIGNALING_FOR_NEURITE_OUT_GROWTH
39	16.73	NULL	8 / 28	BP odontogenesis
40	16.46	NULL	7 / 15	GSEA C2LEE_LIVER_CANCER_HEPATOBLAST

p-values



# GW\_152

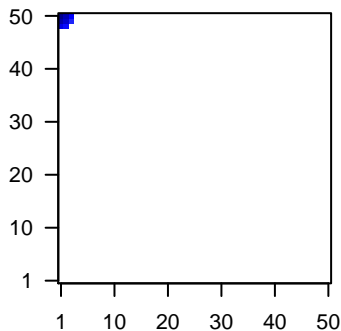
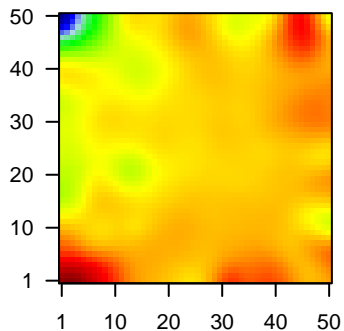
## Local Summary

%DE = 0.99  
 # metagenes = 8  
 # genes = 137  
 # genes in genesets = 134  
 # genes with  $fdr < 0.1$  = 135 ( 1 + / 134 - )  
 # genes with  $fdr < 0.05$  = 135 ( 1 + / 134 - )  
 # genes with  $fdr < 0.01$  = 134 ( 1 + / 133 - )

<r> metagenes = 0.99  
 <r> genes = 0.52  
 <FC> = -1.73  
 <shrinkage-t> = -61.32  
 <p-value> = 0  
 <fdr> = 0.02

Profile

Spot



## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	-1.95	2e-16	3e-18	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	131	-2.81	2e-16	3e-18	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	57016	-2.11	2e-16	3e-18	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
4	441282	-1.6	2e-16	3e-18	1 x 49 aldo-keto reductase family 1, member B15 [Source:HGNC S
5	8644	-1.43	2e-16	3e-18	1 x 50 aldo-keto reductase family 1, member C3 [Source:HGNC Syr
6	218	-2.05	2e-16	3e-18	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
7	222	-2.77	2e-16	3e-18	1 x 49 aldehyde dehydrogenase 3 family, member B2 [Source:HGNC
8	242	-1.54	2e-16	3e-18	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syrr
9	387695	-2.81	2e-16	3e-18	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
10	375791	-2.5	2e-16	3e-18	1 x 50 chromosome 9 open reading frame 169 [Source:HGNC Synt
11	84290	-1.99	2e-16	3e-18	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
12	1048	-1.54	2e-16	3e-18	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
13	4680	-2.7	2e-16	3e-18	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (i
14	22802	-2.29	2e-16	3e-18	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
15	9022	-1.58	2e-16	3e-18	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2l
16	84518	-3.78	2e-16	3e-18	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
17	54544	-1.87	2e-16	3e-18	1 x 50 cysteine-rich C-terminal 1 [Source:HGNC Symbol;Acc:2987
18	49860	-2.81	2e-16	3e-18	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
19	1475	-1.81	2e-16	3e-18	1 x 50 cystatin A (stefin A) [Source:HGNC Symbol;Acc:2481]
20	1476	-1.3	2e-16	3e-18	1 x 50 cystatin B (stefin B) [Source:HGNC Symbol;Acc:2482]

## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-57.04	NULL	63 / 135	H.Tiss WIRTH_Mucosa
2	-51.07	NULL	14 / 21	CC cornified envelope
3	-42.64	NULL	16 / 42	BP keratinization
4	-40.15	NULL	19 / 53	BP keratinocyte differentiation
5	-33.65	NULL	8 / 19	BP peptide cross-linking
6	-28.03	NULL	16 / 76	BP epidermis development
7	-27.77	NULL	65 / 572	Disease GUDJ_pсориазis up
8	-25.13	NULL	5 / 16	GSEA C20NDER_CDH1_TARGETS_3_DN
9	-21.41	NULL	4 / 10	MF RAGE receptor binding
10	-21.26	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
11	-18.09	NULL	3 / 15	GSEA C2ZHANG_IMMORTALIZED_BY_HPV31_DN
12	-17.89	NULL	5 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
13	-17.59	NULL	3 / 13	GSEA C2FARMER_BREAST_CANCER_APOCRINE VS LUMINAL
14	-17.19	NULL	2 / 8	GSEA C2MCLACHLAN_DENTAL_CARIES_UP
15	-16.22	NULL	6 / 13	BP negative regulation of peptidase activity
16	-15.99	NULL	2 / 9	GSEA C2MCLACHLAN_DENTAL_CARIES_DN
17	-15.63	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
18	-15.61	NULL	8 / 52	BP negative regulation of endopeptidase activity
19	-15.56	NULL	3 / 16	GSEA C2JAEGER_METASTASIS_DN
20	-15.54	NULL	3 / 16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
21	-15.09	NULL	3 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
22	-14.99	NULL	2 / 10	GSEA C2NIKOLSKY_BREAST_CANCER_20Q12_Q13_AMPLICON
23	-14.79	NULL	10 / 79	MF serine-type endopeptidase inhibitor activity
24	-14.67	NULL	3 / 13	GSEA C2HAN_SATB1_TARGETS_DN
25	-14.45	NULL	3 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_DN
26	-14.15	NULL	2 / 11	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_BONE_DN
27	-14.08	NULL	3 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
28	-13.68	NULL	4 / 23	MF peptidase inhibitor activity
29	-13.05	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
30	-12.98	NULL	13 / 186	MF structural molecule activity
31	-12.8	NULL	2 / 13	GSEA C2CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN
32	-12.4	NULL	2 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
33	-12.23	NULL	3 / 12	BP cellular aldehyde metabolic process
34	-11.78	NULL	5 / 29	BP regulation of proteolysis
35	-11.75	NULL	2 / 15	GSEA C20NDER_CDH1_TARGETS_2_DN
36	-11.75	NULL	2 / 15	GSEA C2SMID_BREAST_CANCER_LUMINAL_B_DN
37	-11.65	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP
38	-11.29	NULL	3 / 16	GSEA C2CHEOK_RESPONSE_TO_MERCAPTOPYRINE_AND_LD_MTX_1
39	-11.18	NULL	1 / 8	GSEA C2JU_CDX2_TARGETS_DN
40	-11.12	NULL	41 / 1182	CC extracellular region

p-values

