

GW_069

Global Summary

%DE = 0.15
 # genes with $fdr < 0.2$ = 1846 (1002 + / 844 -)
 # genes with $fdr < 0.1$ = 1366 (763 + / 603 -)
 # genes with $fdr < 0.05$ = 1103 (619 + / 484 -)
 # genes with $fdr < 0.01$ = 696 (406 + / 290 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.12
 <fdr> = 0.85

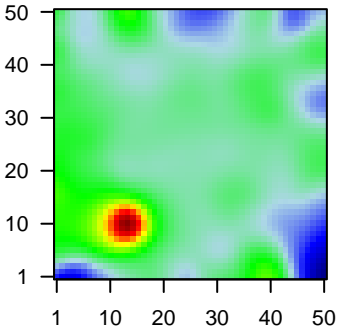
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	218	1.82	2e-16	5e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC]
2	348	1.87	2e-16	5e-14	50 x 1 apolipoprotein E [Source:HGNC Symbol;Acc:613]
3	339512	1.51	2e-16	5e-14	50 x 50 chromosome 1 open reading frame 110 [Source:HGNC Synt]
4	148304	1.66	2e-16	5e-14	1 x 41 chromosome 1 open reading frame 74 [Source:HGNC Symbc]
5	55321	1.56	2e-16	5e-14	8 x 5 transmembrane protein 74B [Source:HGNC Symbol;Acc:158]
6	1281	-1.84	2e-16	5e-14	2 x 1 collagen, type III, alpha 1 [Source:HGNC Symbol;Acc:2201]
7	49860	3.07	2e-16	5e-14	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
8	441520	3.12	2e-16	5e-14	14 x 11 cancer/testis antigen family 45, member A2 [Source:HGNC S]
9	441521	1.51	2e-16	5e-14	14 x 11 cancer/testis antigen family 45, member A2 [Source:HGNC S]
10	414325	1.6	2e-16	5e-14	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
11	1917	1.87	2e-16	5e-14	25 x 1 eukaryotic translation elongation factor 1 alpha 2 [Source:HG]
12	54749	1.9	2e-16	5e-14	5 x 1 ependymin related 1 [Source:HGNC Symbol;Acc:17572]
13	729428	3.65	2e-16	5e-14	14 x 11 G antigen 12C [Source:HGNC Symbol;Acc:28402]
14	729422	3.84	2e-16	5e-14	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
15	100132399	2.08	2e-16	5e-14	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
16	729431	1.62	2e-16	5e-14	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
17	100008586	3.52	2e-16	5e-14	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
18	645073	3.56	2e-16	5e-14	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
19	729442	3.78	2e-16	5e-14	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
20	26748	3.68	2e-16	5e-14	14 x 11 G antigen 12I [Source:HGNC Symbol;Acc:4105]

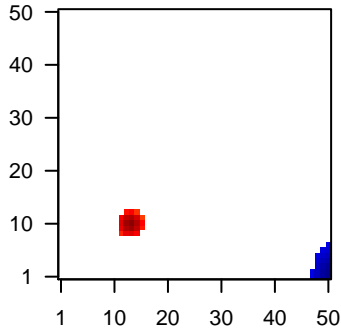
Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	10.38	NULL	918	Chr Chr 17
2	9.16	NULL	449	Chr Chr 20
3	8.99	NULL	630	Chr Chr X
4	7.59	NULL	1720	Chr Chr 1
5	7.37	NULL	717	Chr Chr 16
6	6.24	NULL	16	GSEA C2ELVIDGE_HIF1A_TARGETS_DN
7	5.53	NULL	9	GSEA C2NIKOLSKY_BREAST_CANCER_17P11_AMPLICON
8	5.39	NULL	16	GSEA C2ELVIDGE_HIF1A_AND_HIF2A_TARGETS_DN
9	5.23	NULL	11	GSEA C2ABE_VEGFA_TARGETS_2HR
10	5.04	NULL	14	GSEA C2NIKOLSKY_BREAST_CANCER_12Q13_Q21_AMPLICON
11	4.89	NULL	120	H.Tiss WIRTH_Testis
12	4.76	NULL	1574	BP transcription, DNA-templated
13	4.75	NULL	12	GSEA C2REACTOME_BILE_SALT_AND_ORGANIC_ANION_SLC_TRANSPORT
14	4.73	NULL	633	Chr Chr 9
15	4.45	NULL	135	H.Tiss WIRTH_Mucosa
16	4.38	NULL	76	BP epidermis development
17	4.29	NULL	12	GSEA C2RAY_TARGETS_OF_P210_BCR_ABL_FUSION_UP
18	4.26	NULL	15	GSEA C2KEGG_PENTOSE_PHOSPHATE_PATHWAY
19	4.24	NULL	940	MF nucleic acid binding
20	4.2	NULL	8	GSEA C2ILU_CDUX2_TARGETS_DN
<i>Underexpressed</i>				
1	-14.59	NULL	553	Cancer Lemcke_Colonc Inflammation
2	-12.77	NULL	250	LymphomaL1ENZ_Stromal signature 1
3	-10.97	NULL	280	Chr Chr 13
4	-10.87	NULL	265	Glio willscher_GBM_Verhaak-CL_expression_B_up
5	-10.87	NULL	265	Glio willscher_GBM_Verhaak-MES_expression_B_up
6	-10.87	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
7	-10.87	NULL	265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
8	-10.78	NULL	190	CC extracellular matrix
9	-9.62	NULL	1182	CC extracellular region
10	-9.43	NULL	142	Glio willscher_GBM_Verhaak-CL_expression_C_up
11	-9.43	NULL	142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
12	-9.4	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
13	-9.11	NULL	714	Chr Chr 6
14	-9	NULL	312	BP immune response
15	-9	NULL	16	MMML C2SCIEJ_MMML 1
16	-8.6	NULL	683	CC extracellular space
17	-8.32	NULL	417	H.Tiss WIRTH_Immune system
18	-8.22	NULL	572	Disease GUDJ_poriasis up
19	-7.64	NULL	699	Chr Chr 5
20	-7.47	NULL	504	Chr Chr 15

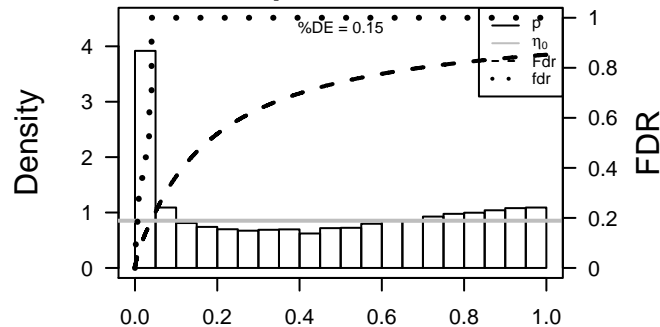
Profile



Regulated Spots



p-values



GW_069

Local Summary

%DE = 0.76
 # metagenes = 22
 # genes = 98
 # genes in genesets = 73
 # genes with fdr < 0.1 = 69 (68 + / 1 -)
 # genes with fdr < 0.05 = 67 (67 + / 0 -)
 # genes with fdr < 0.01 = 61 (61 + / 0 -)

<r> metagenes = 0.96

<r> genes = 0.29

<FC> = 1.25

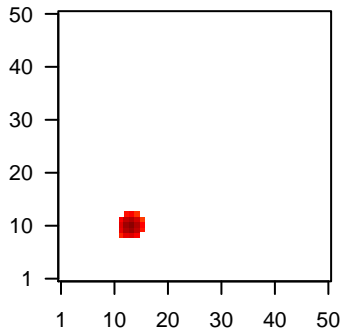
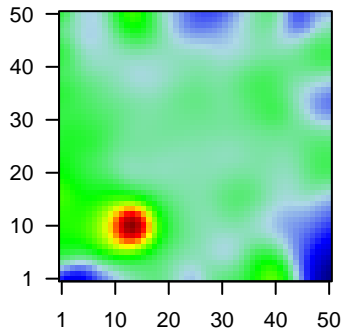
<shrinkage-t> = 43.61

<p-value> = 0

<fdr> = 0.3

Profile

Spot



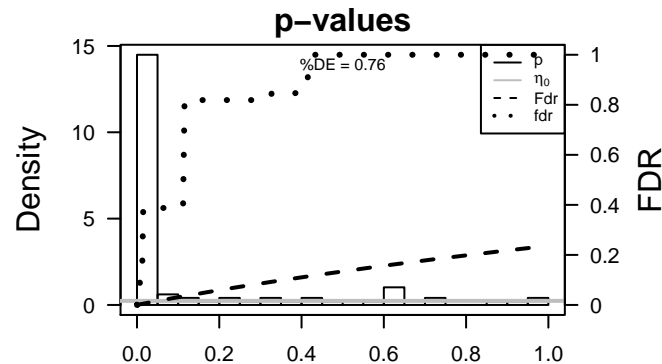
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	441520	3.12	2e-16	2e-16	14 x 11 cancer/testis antigen family 45, member A2 [Source:HGNC S
2	441521	1.51	2e-16	2e-16	14 x 11 cancer/testis antigen family 45, member A2 [Source:HGNC S
3	729428	3.65	2e-16	2e-16	14 x 11 G antigen 12C [Source:HGNC Symbol;Acc:28402]
4	729422	3.84	2e-16	2e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
5	100132399	2.08	2e-16	2e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
6	729431	1.62	2e-16	2e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
7	100008586	3.52	2e-16	2e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
8	645073	3.56	2e-16	2e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
9	729442	3.78	2e-16	2e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
10	26748	3.68	2e-16	2e-16	14 x 11 G antigen 12I [Source:HGNC Symbol;Acc:4105]
11	729396	2.97	2e-16	2e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
12	729447	3.1	2e-16	2e-16	14 x 11 G antigen 2A [Source:HGNC Symbol;Acc:4099]
13	645037	3.94	2e-16	2e-16	14 x 11 G antigen 2C [Source:HGNC Symbol;Acc:31958]
14	26749	3.16	2e-16	2e-16	14 x 11 G antigen 2E [Source:HGNC Symbol;Acc:31960]
15	2576	3.67	2e-16	2e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
16	2577	3.73	2e-16	2e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
17	2578	1.99	2e-16	2e-16	14 x 11 G antigen 12J [Source:HGNC Symbol;Acc:17778]
18	2579	3.11	2e-16	2e-16	14 x 11 G antigen 12I [Source:HGNC Symbol;Acc:4105]
19	100101629	2.68	2e-16	2e-16	14 x 11 G antigen 2E [Source:HGNC Symbol;Acc:31960]
20	121355	2.06	2e-16	2e-16	14 x 11 gametocyte specific factor 1 [Source:HGNC Symbol;Acc:265f

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	19.15	NULL	30 / 630	Chr Chr X
2	16.93	NULL	3 / 14	GSEA C2MAHADEVAN_IMATINIB_RESISTANCE_UP
3	15.33	NULL	1 / 9	GSEA C2ABE_VEGFA_TARGETS_30MIN
4	13.46	NULL	1 / 11	GSEA C2ABE_VEGFA_TARGETS_2HR
5	12.54	NULL	1 / 12	GSEA C2RAY_TARGETS_OF_P210_BCR_ABL_FUSION_UP
6	11.56	NULL	1 / 14	GSEA C2ALK_AML_WITH_11Q23_REARRANGED
7	11.08	NULL	1 / 15	GSEA C2ALK_AML_CLUSTER_16
8	11.08	NULL	1 / 15	GSEA C2KEGG_PENTOSE_PHOSPHATE_PATHWAY
9	10.24	NULL	9 / 120	H.Tiss WIRTH_Testis
10	10.12	NULL	1 / 11	GSEA C2SU_PLACENTA
11	8.89	NULL	1 / 4	GSEA C2WEBER_METHYLATED_ICP_IN_SPERM_DN
12	8.87	NULL	2 / 8	GSEA C2WEBER_METHYLATED_ICP_IN_FIBROBLAST
13	8.68	NULL	1 / 14	GSEA C2NIELSEN_GIST
14	8.31	NULL	1 / 15	GSEA C2BROWNE_HCMV_INFECTION_8HR_DN
15	8.04	NULL	1 / 2	miRNA target-107
16	6.68	NULL	1 / 15	GSEA C2MASRI_RESISTANCE_TO_TAMOXIFEN_AND_AROMATASE_INH
17	6.61	NULL	2 / 23	BP calcium-dependent cell-cell adhesion
18	6.5	NULL	1 / 6	GSEA C2NIELSEN_GIST_VS_SYNOVIAL_SARCOMA_UP
19	6.07	NULL	1 / 6	GSEA C2NIELSEN_LEIOMYOSARCOMA_UP
20	5.82	NULL	1 / 7	GSEA C2NIELSEN_SYNOVIAL_SARCOMA_UP
21	5.81	NULL	1 / 21	BP anterograde axon cargo transport
22	5.75	NULL	1 / 4	GSEA C2WEBER_METHYLATED_ICP_IN_SPERM_UP
23	5.3	NULL	10 / 549	MF molecular_function
24	5.14	NULL	9 / 481	BP biological_process
25	5.12	NULL	1 / 10	BP paraxial mesoderm development
26	4.99	NULL	1 / 14	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_B
27	4.97	NULL	1 / 27	Glio WIRTH_PN subtype
28	4.93	NULL	2 / 37	BP synapse assembly
29	4.85	NULL	1 / 12	GSEA C2HO_LIVER_CANCER_VASCULAR_INVASION
30	4.71	NULL	2 / 16	GSEA C2LANDEMAINE_LUNG_METASTASIS
31	4.69	NULL	7 / 419	CC cellular_component
32	4.66	NULL	1 / 13	CC axonemal dynein complex
33	4.64	NULL	2 / 68	BP microtubule-based movement
34	4.54	NULL	1 / 12	Glio Phillips PN up vs MES & Prolif
35	4.52	NULL	2 / 71	MF microtubule motor activity
36	4.36	NULL	1 / 15	GSEA C2ASTON_MAJOR_DEPRESSIVE_DISORDER_UP
37	4.36	NULL	1 / 15	GSEA C2DAIRKEE_CANCER_PRONE_RESPONSE_E2
38	4.3	NULL	1 / 13	GSEA C2GUENTHER_GROWTH_SPHERICAL_VS_ADHERENT_UP
39	4.18	NULL	1 / 16	GSEA C2ELVIDGE_HIF1A_TARGETS_DN
40	4.18	NULL	1 / 16	GSEA C2ELVIDGE_HIF1A_AND_HIF2A_TARGETS_DN



GW_069

Local Summary

%DE = 0.82
 # metagenes = 20
 # genes = 359
 # genes in genesets = 357
 # genes with $fdr < 0.1$ = 232 (13 + / 219 -)
 # genes with $fdr < 0.05$ = 205 (10 + / 195 -)
 # genes with $fdr < 0.01$ = 136 (6 + / 130 -)

$\langle r \rangle$ metagenes = 0.95

$\langle r \rangle$ genes = 0.48

$\langle FC \rangle = -0.4$

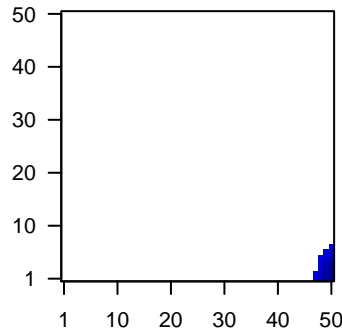
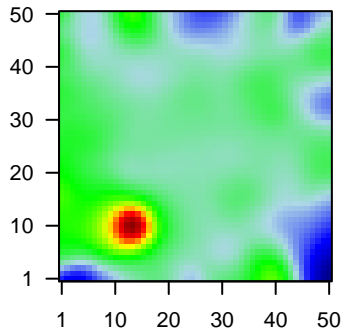
$\langle \text{shrinkage-t} \rangle = -14.05$

$\langle p\text{-value} \rangle = 0$

$\langle fdr \rangle = 0.49$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	348	1.87	2e-16	7e-15	50 x 1 apolipoprotein E [Source:HGNC Symbol;Acc:613]
2	3512	-1.6	2e-16	7e-15	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglobul
3	260436	-1.47	1e-15	3e-12	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
4	3689	-1.37	7e-14	3e-12	50 x 1 integrin, beta 2 (complement component 3 receptor 3 and 4 s
5	3113	-1.36	1e-13	7e-12	50 x 1 major histocompatibility complex, class II, DP alpha 1 [Source
6	3936	-1.34	2e-13	1e-10	50 x 1 lymphocyte cytosolic protein 1 (L-plastin) [Source:HGNC Syr
7	3488	-1.29	2e-12	6e-09	50 x 7 insulin-like growth factor binding protein 5 [Source:HGNC Sy
8	3128	-1.18	1e-10	7e-09	50 x 1 major histocompatibility complex, class II, DR beta 6 (pseudo
9	3059	-1.15	3e-10	7e-09	50 x 1 hematopoietic cell-specific Lyn substrate 1 [Source:HGNC S;
10	10550	-1.15	3e-10	7e-09	50 x 3 ADP-ribosylation-like factor 6 interacting protein 5 [Source:H
11	241	-1.14	4e-10	3e-08	50 x 1 arachidonate 5-lipoxygenase-activating protein [Source:HGNC
12	1808	-1.12	1e-09	3e-08	50 x 5 dihydropyrimidinase-like 2 [Source:HGNC Symbol;Acc:3014]
13	5552	-1.11	1e-09	8e-08	50 x 1 serglycin [Source:HGNC Symbol;Acc:9361]
14	5176	-1.09	3e-09	1e-06	50 x 5 serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigm
15	1535	1.01	4e-08	1e-06	47 x 1 cytochrome b-245, alpha polypeptide [Source:HGNC Symb
16	91607	-1	5e-08	2e-06	48 x 4 schlafen family member 11 [Source:HGNC Symbol;Acc:2663;
17	3120	-0.98	9e-08	2e-06	47 x 1 major histocompatibility complex, class II, DQ beta 2 [Source:
18	347	-0.97	1e-07	3e-06	50 x 7 apolipoprotein D [Source:HGNC Symbol;Acc:612]
19	2745	-0.95	2e-07	3e-06	50 x 3 glutaredoxin (thioltransferase) [Source:HGNC Symbol;Acc:43
20	1359	-0.94	3e-07	3e-06	50 x 7 carboxypeptidase A3 (mast cell) [Source:HGNC Symbol;Acc:

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-25.22	NULL	12 / 15	CC MHC class II protein complex
2	-20.4	NULL	100 / 553	Cancer Lembcke_Colonc Inflammation
3	-19.74	NULL	87 / 417	H.Tiss WIRTH_Immune system
4	-17.77	NULL	44 / 265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
5	-17.77	NULL	44 / 265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
6	-17.77	NULL	44 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
7	-17.77	NULL	44 / 265	Glio wilscher_GBM_Verhaak-PNmut_expression_B_down
8	-16.1	NULL	54 / 312	BP immune response
9	-15.51	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
10	-15.06	NULL	6 / 15	GSEA C2FINAK_BREAST_CANCER_SDPP_SIGNATURE
11	-14.66	NULL	15 / 47	BP antigen processing and presentation
12	-14	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
13	-13.3	NULL	2 / 6	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_UP
14	-13.16	NULL	2 / 4	GSEA C2KEGG_LEISHMANIA_INFECTION
15	-13.08	NULL	7 / 21	CC clathrin-coated endocytic vesicle membrane
16	-12.85	NULL	5 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_
17	-12.72	NULL	6 / 15	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_GRANULO
18	-12.55	NULL	4 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN
19	-12.53	NULL	7 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HG
20	-12.43	NULL	7 / 23	CC integral to luminal side of endoplasmic reticulum membrane
21	-12.42	NULL	32 / 316	Cancer SPANG_BCL6-index2
22	-12.32	NULL	8 / 28	CC transport vesicle membrane
23	-12.28	NULL	3 / 9	GSEA C2GUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_2
24	-12.09	NULL	6 / 16	GSEA C2FERRANDO_TAL1_NEIGHBORS
25	-12	NULL	9 / 35	CC trans-Golgi network membrane
26	-11.9	NULL	3 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
27	-11.77	NULL	3 / 8	GSEA C2LINDSTEDT_DENDRITIC_CELL_MATURATION_D
28	-11.7	NULL	3 / 7	GSEA C2BOYVAULT_LIVER_CANCER_SUBCLASS_G5_DN
29	-11.46	NULL	3 / 11	GSEA C2GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP
30	-11	NULL	18 / 74	BP regulation of immune response
31	-11	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
32	-10.95	NULL	4 / 7	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAIN
33	-10.91	NULL	5 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
34	-10.79	NULL	6 / 27	MF antigen binding
35	-10.66	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
36	-10.58	NULL	3 / 11	GSEA C2KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY
37	-10.55	NULL	13 / 87	BP antigen processing and presentation of exogenous peptide antigen
38	-10.52	NULL	2 / 6	GSEA C2LUI_THYROID_CANCER_CLUSTER_4
39	-10.38	NULL	3 / 10	GSEA C2HOSHIDA_LIVER_CANCER_SUBCLASS_S1
40	-10.3	NULL	7 / 32	CC ER to Golgi transport vesicle membrane

p-values

