

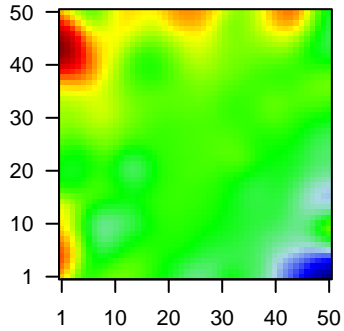
GW_054

Global Summary

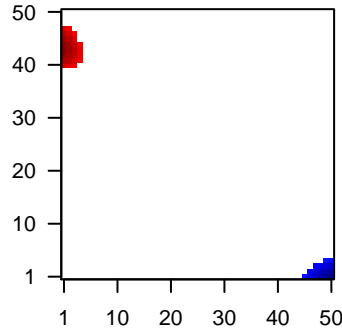
%DE = 0.14
 # genes with fdr < 0.2 = 1789 (938 + / 851 -)
 # genes with fdr < 0.1 = 1424 (762 + / 662 -)
 # genes with fdr < 0.05 = 1183 (633 + / 550 -)
 # genes with fdr < 0.01 = 785 (452 + / 333 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.11
 <fdr> = 0.86

Profile



Regulated Spots



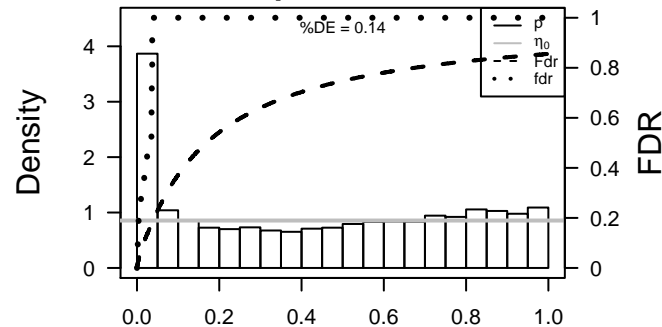
Global Genelist

Rank	ID	log(FC)	fdr p-value	Description
1	10551	1.45	2e-16 5e-14	50 x 10 anterior gradient 2 [Source:HGNC Symbol;Acc:328]
2	113146	1.64	2e-16 5e-14	1 x 44 AHNAK nucleoprotein 2 [Source:HGNC Symbol;Acc:20125]
3	57016	1.49	2e-16 5e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase)
4	401138	2.16	2e-16 5e-14	1 x 5 amelotin [Source:HGNC Symbol;Acc:33188]
5	55107	1.95	2e-16 5e-14	1 x 5 anoctamin 1, calcium activated chloride channel [Source:HGNC Symbol;Acc:31188]
6	306	1.5	2e-16 5e-14	4 x 42 annexin A3 [Source:HGNC Symbol;Acc:541]
7	348	-1.48	2e-16 5e-14	50 x 1 apolipoprotein E [Source:HGNC Symbol;Acc:613]
8	80341	1.69	2e-16 5e-14	50 x 10 BPI fold containing family B, member 2 [Source:HGNC Symbol;Acc:31188]
9	92747	1.69	2e-16 5e-14	50 x 10 BPI fold containing family B, member 1 [Source:HGNC Symbol;Acc:31188]
10	29113	2.41	2e-16 5e-14	2 x 47 chromosome 6 open reading frame 15 [Source:HGNC Symbol;Acc:31188]
11	760	1.67	2e-16 5e-14	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
12	51806	2.14	2e-16 5e-14	4 x 50 calmodulin-like 5 [Source:HGNC Symbol;Acc:18180]
13	55450	1.36	2e-16 5e-14	1 x 4 calcium/calmodulin-dependent protein kinase II inhibitor 1 [Source:HGNC Symbol;Acc:31188]
14	6364	-1.46	2e-16 5e-14	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc:31188]
15	8900	1.69	2e-16 5e-14	1 x 42 cyclin A1 [Source:HGNC Symbol;Acc:1577]
16	1308	1.83	2e-16 5e-14	1 x 43 collagen, type XVII, alpha 1 [Source:HGNC Symbol;Acc:2194]
17	56603	1.51	2e-16 5e-14	1 x 4 cytochrome P450, family 26, subfamily B, polypeptide 1 [Source:HGNC Symbol;Acc:31188]
18	92196	-1.33	2e-16 5e-14	3 x 50 death associated protein-like 1 [Source:HGNC Symbol;Acc:2194]
19	55894	1.5	2e-16 5e-14	1 x 47 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
20	414325	1.88	2e-16 5e-14	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	12.45	NULL	519	Chr Chr 14
2	12.01	NULL	633	Chr Chr 9
3	11.18	NULL	572	Disease GUDJ_pсорiasis up
4	10.36	NULL	135	H.Tiss WIRTH_Mucosa
5	9.64	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
6	8.63	NULL	12	BP hemidesmosome assembly
7	8.48	NULL	76	BP epidermis development
8	7.78	NULL	530	Cancer Lembecke_Normal vs Adenoma
9	7.6	NULL	21	CC desmosome
10	7.29	NULL	142	Glio willscher_GBM_Verhaak-CL_expression_C_up
11	7.29	NULL	142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
12	7.1	NULL	370	BP mitotic cell cycle
13	7	NULL	70	BP cell junction assembly
14	6.97	NULL	64	BP collagen catabolic process
15	6.88	NULL	15	GSEA C2CROMER_TUMORIGENESIS_UP
16	6.82	NULL	242	BP extracellular matrix organization
17	6.76	NULL	69	BP extracellular matrix disassembly
18	6.74	NULL	22	MF cadherin binding
19	6.39	NULL	9	GSEA C2WANG_RESPONSE_TO_PACLITAXEL_VIA_MAPK8_UP
20	6.25	NULL	16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
<i>Underexpressed</i>				
1	-13.13	NULL	15	CC MHC class II protein complex
2	-11.23	NULL	417	H.Tiss WIRTH_Immune system
3	-9.88	NULL	553	Cancer Lembecke_Colonc Inflammation
4	-9.44	NULL	312	BP immune response
5	-8.93	NULL	1135	Chr Chr 19
6	-8.67	NULL	52	Chr H5CHR6_MHC_QBL
7	-7.91	NULL	60	BP T cell costimulation
8	-7.81	NULL	84	BP T cell receptor signaling pathway
9	-7.38	NULL	265	Glio willscher_GBM_Verhaak-CL_expression_B_up
10	-7.38	NULL	265	Glio willscher_GBM_Verhaak-MES_expression_B_up
11	-7.38	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
12	-7.38	NULL	265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
13	-7.32	NULL	23	CC integral to lumenal side of endoplasmic reticulum membrane
14	-7.25	NULL	21	CC clathrin-coated endocytic vesicle membrane
15	-6.9	NULL	47	BP antigen processing and presentation
16	-6.75	NULL	28	CC transport vesicle membrane
17	-6.53	NULL	11	GSEA C2BIOCARTA_THelper_PATHWAY
18	-6.44	NULL	15	GSEA C2FINAK_BREAST_CANCER_SDPp_SIGNATURE
19	-6.43	NULL	11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
20	-6.42	NULL	43	MF chemokine activity

p-values



GW_054

Local Summary

%DE = 0.83
 # metagenes = 27
 # genes = 305
 # genes in genesets = 299

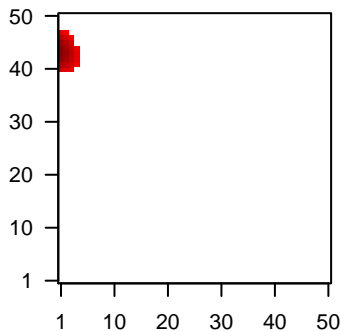
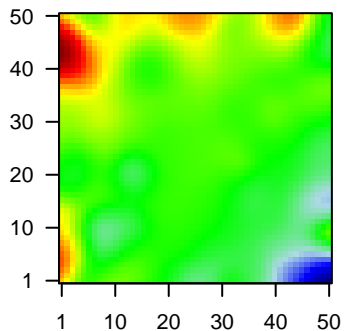
genes with $fdr < 0.1 = 215$ (205 + / 10 -)
 # genes with $fdr < 0.05 = 213$ (203 + / 10 -)
 # genes with $fdr < 0.01 = 178$ (170 + / 8 -)

$\langle r \rangle$ metagenes = 0.94
 $\langle r \rangle$ genes = 0.36

$\langle FC \rangle = 0.53$
 $\langle \text{shrinkage-t} \rangle = 18.68$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.33$

Profile

Spot



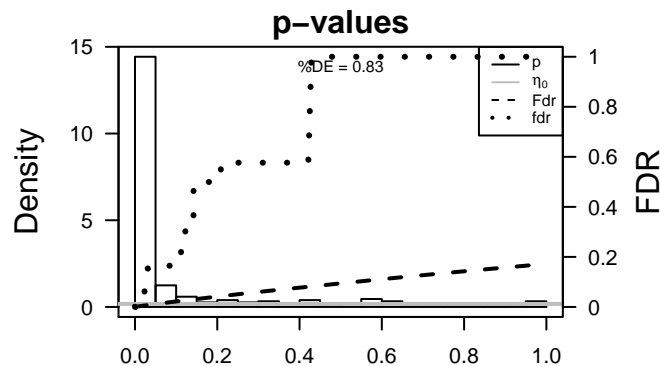
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	113146	1.64	2e-16	8e-16	1 x 44 AHNAK nucleoprotein 2 [Source:HGNC Symbol;Acc:20125]
2	306	1.5	2e-16	8e-16	4 x 42 annexin A3 [Source:HGNC Symbol;Acc:541]
3	29113	2.41	2e-16	8e-16	2 x 47 chromosome 6 open reading frame 15 [Source:HGNC Symbc
4	760	1.67	2e-16	8e-16	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
5	8900	1.69	2e-16	8e-16	1 x 42 cyclin A1 [Source:HGNC Symbol;Acc:1577]
6	1308	1.83	2e-16	8e-16	1 x 43 collagen, type XVII, alpha 1 [Source:HGNC Symbol;Acc:2194
7	55894	1.5	2e-16	8e-16	1 x 47 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
8	2150	1.63	2e-16	8e-16	1 x 44 coagulation factor II (thrombin) receptor-like 1 [Source:HGNC
9	3306	2.05	2e-16	8e-16	1 x 42 heat shock 70kDa protein 2 [Source:HGNC Symbol;Acc:5235
10	3868	1.26	2e-16	8e-16	1 x 46 keratin 16 [Source:HGNC Symbol;Acc:6423]
11	387882	1.72	2e-16	8e-16	2 x 41 chromosome 12 open reading frame 75 [Source:HGNC Symt
12	4330	1.37	2e-16	8e-16	1 x 42 meningioma (disrupted in balanced translocation) 1 [Source:t
13	26499	1.36	2e-16	8e-16	1 x 42 pleckstrin 2 [Source:HGNC Symbol;Acc:19238]
14	6339	1.49	2e-16	8e-16	1 x 45 sodium channel, non-voltage-gated 1, delta subunit [Source:
15	116211	1.36	2e-16	8e-16	1 x 43 Transmembrane 4 L6 family member 19 [Source:UniProtKB/!
16	5268	1.29	1e-15	3e-14	1 x 46 serpin peptidase inhibitor, clade B (ovalbumin), member 5 [Sc
17	1001	1.29	1e-15	5e-14	1 x 43 cadherin 3, type 1, P-cadherin (placental) [Source:HGNC Sy
18	8601	1.28	2e-15	6e-14	1 x 44 regulator of G-protein signaling 20 [Source:HGNC Symbol;A
19	23002	1.26	4e-15	6e-14	4 x 44 dishevelled associated activator of morphogenesis 1 [Source:
20	653499	1.26	5e-15	6e-14	1 x 47 lectin, galactoside-binding, soluble, 7 [Source:HGNC Symbol

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	15.46	NULL	5 / 12	BP hemidesmosome assembly
2	14.7	NULL	28 / 135	H.Tiss WIRTH_Mucosa
3	13.94	NULL	2 / 5	GSEA C2FERRARI_RESPONSE_TO_FENRETINIDE_UP
4	13.86	NULL	71 / 572	Disease GUDJ_psooriasis_up
5	13.83	NULL	8 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
6	12.93	NULL	16 / 76	BP epidermis development
7	12.28	NULL	3 / 9	GSEA C2WANG_RESPONSE_TO_PACLITAXEL_VIA_MAPK8_UP
8	11.39	NULL	19 / 82	CC intermediate filament
9	11.26	NULL	8 / 21	CC desmosome
10	9.89	NULL	5 / 15	GSEA C2AIGNER_ZEB1_TARGETS
11	9.49	NULL	2 / 8	GSEA C2DORN_ADENOVIRUS_INFECTION_24HR_UP
12	9.13	NULL	2 / 7	GSEA C2YE_METASTATIC_LIVER_CANCER
13	9.08	NULL	2 / 18	BP male meiosis I
14	9.05	NULL	3 / 15	GSEA C2FRIDMAN_IMMORTALIZATION_DN
15	9.02	NULL	3 / 17	BP morphogenesis of an epithelium
16	8.44	NULL	3 / 25	BP response to zinc ion
17	8.4	NULL	4 / 13	BP intermediate filament cytoskeleton organization
18	8.1	NULL	7 / 48	Glio Noushmehr_Pron_GCIMP_hypermeth_DN
19	8.01	NULL	9 / 44	CC keratin filament
20	7.78	NULL	1 / 4	GSEA C2NIELSEN_LEIOMYOSARCOMA_DN
21	7.73	NULL	2 / 10	BP positive regulation of Rho protein signal transduction
22	7.64	NULL	11 / 82	MF structural constituent of cytoskeleton
23	7.59	NULL	6 / 70	BP cell junction assembly
24	7.51	NULL	3 / 12	BP keratinocyte proliferation
25	7.44	NULL	3 / 19	MF laminin binding
26	7.12	NULL	2 / 23	Chr Chr HSCR6_MHC_DBB
27	7.01	NULL	4 / 22	MF cadherin binding
28	6.98	NULL	3 / 16	GSEA C2YANG_BREAST_CANCER_ESR1_DN
29	6.98	NULL	2 / 6	GSEA C2WALLACE_PROSTATE_CANCER_DN
30	6.95	NULL	19 / 186	MF structural molecule activity
31	6.94	NULL	3 / 10	GSEA C2DAZARD_UV_RESPONSE_CLUSTER_G3
32	6.94	NULL	2 / 16	GSEA C2BACLOD_RESISTANCE_TO_ALKYLATING_AGENTS_UP
33	6.88	NULL	4 / 12	GSEA C2REACTOME_GAP_JUNCTION_ASSEMBLY
34	6.84	NULL	3 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP
35	6.83	NULL	2 / 2	miRNA target-199a*
36	6.82	NULL	1 / 10	GSEA C2CAFFAREL_RESPONSE_TO_THC_8HR_5_DN
37	6.78	NULL	2 / 15	GSEA C2KANG_CISPLATIN_RESISTANCE_UP
38	6.71	NULL	5 / 32	CC cell-cell adherens junction
39	6.65	NULL	11 / 117	Glio GIEZELT_GBM_WT_up_VS_mut
40	6.65	NULL	3 / 10	BP negative regulation of interleukin-2 production



GW_054

Local Summary

%DE = 0.95
 # metagenes = 17
 # genes = 281
 # genes in genesets = 278

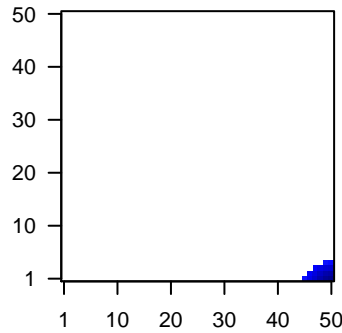
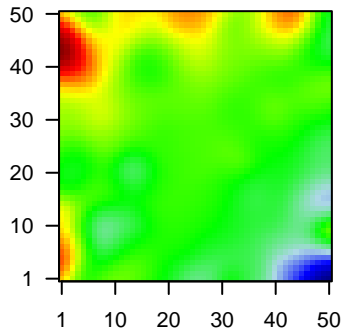
genes with $fdr < 0.1$ = 254 (4 + / 250 -)
 # genes with $fdr < 0.05$ = 247 (3 + / 244 -)
 # genes with $fdr < 0.01$ = 221 (1 + / 220 -)

$\langle r \rangle$ metagenes = 0.99
 $\langle r \rangle$ genes = 0.58

$\langle FC \rangle = -0.6$
 $\langle \text{shrinkage-t} \rangle = -21.1$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.21$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	348	-1.48	2e-16	4e-16	50 x 1 apolipoprotein E [Source:HGNC Symbol;Acc:613]
2	6364	-1.46	2e-16	4e-16	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc:613]
3	3109	-1.64	2e-16	4e-16	50 x 1 major histocompatibility complex, class II, DM beta [Source:HGNC Symbol;Acc:613]
4	3113	-1.39	2e-16	4e-16	50 x 1 major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:613]
5	3120	-1.37	2e-16	4e-16	47 x 1 major histocompatibility complex, class II, DQ beta 2 [Source:HGNC Symbol;Acc:613]
6	3122	-1.7	2e-16	4e-16	50 x 1 major histocompatibility complex, class II, DR alpha [Source:HGNC Symbol;Acc:613]
7	3123	-1.35	2e-16	4e-16	45 x 1 major histocompatibility complex, class II, DR beta 1 [Source:HGNC Symbol;Acc:613]
8	3936	-1.56	2e-16	4e-16	50 x 1 lymphocyte cytosolic protein 1 (L-plastin) [Source:HGNC Symbol;Acc:613]
9	9806	-1.33	2e-16	4e-16	50 x 1 sparc/osteonectin, cwcv and kazal-like domains proteoglycan-associated domain [Source:HGNC Symbol;Acc:613]
10	3689	-1.3	7e-16	6e-15	50 x 1 integrin, beta 2 (complement component 3 receptor 3 and 4 subunit beta 2) [Source:HGNC Symbol;Acc:613]
11	713	-1.29	1e-15	3e-13	50 x 1 complement component 1, q subcomponent, B chain [Source:HGNC Symbol;Acc:613]
12	341	-1.22	4e-14	3e-13	50 x 1 apolipoprotein C-I [Source:HGNC Symbol;Acc:607]
13	169044	1.21	7e-14	3e-13	45 x 1 collagen, type XXII, alpha 1 [Source:HGNC Symbol;Acc:2296]
14	241	-1.2	8e-14	3e-13	50 x 1 arachidonate 5-lipoxygenase-activating protein [Source:HGNC Symbol;Acc:613]
15	3108	-1.2	1e-13	3e-13	50 x 1 major histocompatibility complex, class II, DM alpha [Source:HGNC Symbol;Acc:613]
16	4050	-1.2	1e-13	3e-13	50 x 1 lymphotoxin beta (TNF superfamily, member 3) [Source:HGNC Symbol;Acc:613]
17	8635	-1.19	1e-13	9e-13	46 x 1 ribonuclease T2 [Source:HGNC Symbol;Acc:21686]
18	7351	-1.19	2e-13	3e-12	50 x 1 uncoupling protein 2 (mitochondrial, proton carrier) [Source:HGNC Symbol;Acc:613]
19	919	-1.17	4e-13	3e-12	50 x 1 CD247 molecule [Source:HGNC Symbol;Acc:1677]
20	6363	-1.16	6e-13	7e-12	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc:613]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-42.49	NULL	13 / 15	CC MHC class II protein complex
2	-28.93	NULL	92 / 417	H.Tiss WIRTH_Immune system
3	-25.76	NULL	16 / 47	BP antigen processing and presentation
4	-23.69	NULL	8 / 21	CC clathrin-coated endocytic vesicle membrane
5	-23.57	NULL	95 / 553	Cancer Lembecke_Colonc Inflammation
6	-23.36	NULL	54 / 312	BP immune response
7	-22.78	NULL	3 / 3	MMML CASCIEJ_MMML 7
8	-22.53	NULL	8 / 23	CC integral to luminal side of endoplasmic reticulum membrane
9	-22.24	NULL	17 / 60	BP T cell costimulation
10	-20.2	NULL	8 / 28	CC transport vesicle membrane
11	-20.07	NULL	43 / 265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
12	-20.07	NULL	43 / 265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
13	-20.07	NULL	43 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
14	-20.07	NULL	43 / 265	Glio wilscher_GBM_Verhaak-PNmut_expression_B_down
15	-19.95	NULL	7 / 15	GSEA C2FINAK_BREAST_CANCER_SDPD_SIGNATURE
16	-19.35	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
17	-19.23	NULL	7 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
18	-19.05	NULL	9 / 35	CC trans-Golgi network membrane
19	-18.75	NULL	8 / 32	CC ER to Golgi transport vesicle membrane
20	-18.68	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
21	-18.17	NULL	6 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
22	-17.9	NULL	17 / 84	BP T cell receptor signaling pathway
23	-17.08	NULL	12 / 60	BP interferon-gamma-mediated signaling pathway
24	-16.99	NULL	5 / 12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN
25	-16.93	NULL	14 / 87	BP antigen processing and presentation of exogenous peptide antigen
26	-16.57	NULL	6 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
27	-16.46	NULL	6 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HG
28	-16.21	NULL	9 / 52	Chr Chr HSCR6_MHC_QBL
29	-16.12	NULL	18 / 74	BP regulation of immune response
30	-16	NULL	9 / 46	CC endocytic vesicle membrane
31	-15.7	NULL	2 / 4	GSEA C2KEGG_LEISHMANIA_INFECTIO
32	-15.32	NULL	6 / 15	Glio Donson-chemokines/cytokines-associated with LTS in HGA
33	-14.95	NULL	5 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
34	-14.55	NULL	7 / 13	Cancer GENTLES_modul18
35	-14.27	NULL	5 / 12	BP immunoglobulin mediated immune response
36	-14.15	NULL	3 / 8	GSEA C2LINDSTEDT_DENDRITIC_CELL_MATURATION_D
37	-13.97	NULL	2 / 4	GSEA C2REACTOME_CLASSICAL_ANTIBODY_MEDIATED_COMPLEMEN
38	-13.83	NULL	4 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_
39	-13.7	NULL	25 / 162	CC external side of plasma membrane
40	-13.43	NULL	5 / 16	GSEA C2FERRANDO_TAL1_NEIGHBORS

p-values

