

GW_001

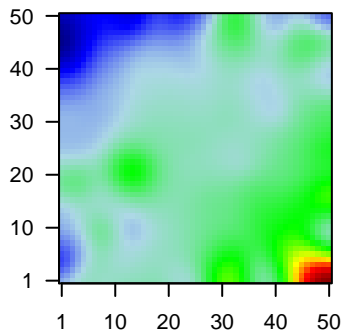
Global Summary

%DE = 0.15
 # genes with $fdr < 0.2$ = 1963 (1051 + / 912 -)
 # genes with $fdr < 0.1$ = 1562 (855 + / 707 -)
 # genes with $fdr < 0.05$ = 1344 (743 + / 601 -)
 # genes with $fdr < 0.01$ = 998 (569 + / 429 -)

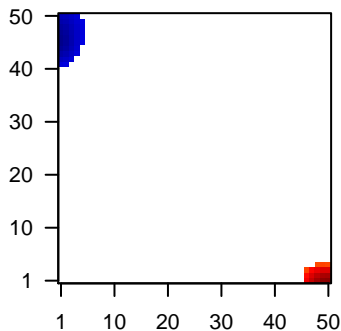
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.09
 <fdr> = 0.85

Profile



Regulated Spots



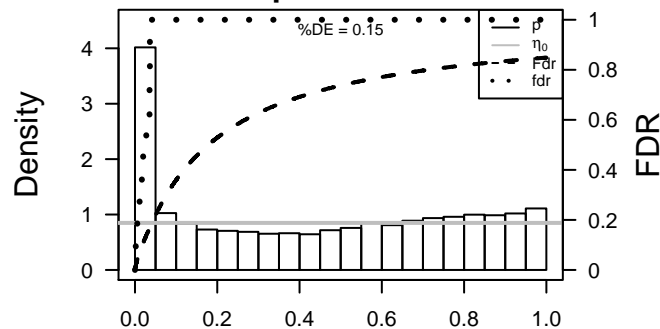
Global Genelist

Rank	ID	log(FC)	fdr p-value	Description Metagene
1	58	1.67	2e-16 3e-14	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
2	133	-1.35	2e-16 3e-14	1 x 42 adrenomedullin [Source:HGNC Symbol;Acc:259]
3	8644	-1.74	2e-16 3e-14	1 x 50 aldo-keto reductase family 1, member C3 [Source:HGNC Sy
4	1109	-1.83	2e-16 3e-14	13 x 50 aldo-keto reductase family 1, member C4 [Source:HGNC Sy
5	241	2.06	2e-16 3e-14	50 x 1 arachidonate 5-lipoxygenase-activating protein [Source:HGNC
6	9459	1.5	2e-16 3e-14	50 x 1 Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 [Sou
7	655	-1.69	2e-16 3e-14	50 x 50 bone morphogenetic protein 7 [Source:HGNC Symbol;Acc:10
8	399948	1.59	2e-16 3e-14	50 x 15 colorectal cancer associated 1 [Source:HGNC Symbol;Acc:30
9	713	1.83	2e-16 3e-14	50 x 1 complement component 1, q subcomponent, B chain [Source
10	260436	2.65	2e-16 3e-14	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symb
11	57172	1.83	2e-16 3e-14	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
12	6363	2.69	2e-16 3e-14	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc
13	6352	1.6	2e-16 3e-14	48 x 1 chemokine (C-C motif) ligand 5 [Source:HGNC Symbol;Acc:1
14	6355	1.47	2e-16 3e-14	32 x 1 chemokine (C-C motif) ligand 8 [Source:HGNC Symbol;Acc:1
15	930	2.05	2e-16 3e-14	49 x 1 CD19 molecule [Source:HGNC Symbol;Acc:1633]
16	914	1.76	2e-16 3e-14	49 x 1 CD2 molecule [Source:HGNC Symbol;Acc:1639]
17	919	1.58	2e-16 3e-14	50 x 1 CD247 molecule [Source:HGNC Symbol;Acc:1677]
18	939	1.54	2e-16 3e-14	49 x 1 CD27 molecule [Source:HGNC Symbol;Acc:11922]
19	915	2.29	2e-16 3e-14	49 x 1 CD3d molecule, delta (CD3-TCR complex) [Source:HGNC S
20	962	2.25	2e-16 3e-14	50 x 1 CD48 molecule [Source:HGNC Symbol;Acc:1683]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	25.77	NULL	417	H.Tiss WIRTH_Immune system
2	20.82	NULL	553	Cancer Lembecke_Colonc Inflammation
3	17.75	NULL	312	BP immune response
4	17.26	NULL	15	CC MHC class II protein complex
5	13.59	NULL	47	BP antigen processing and presentation
6	12.92	NULL	74	BP regulation of immune response
7	12.15	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
8	11.95	NULL	60	BP interferon-gamma-mediated signaling pathway
9	11.75	NULL	60	BP T cell costimulation
10	11.31	NULL	84	BP T cell receptor signaling pathway
11	10.98	NULL	43	MF chemokine activity
12	10.86	NULL	265	Glio willscher_GBM_Verhaak-CL_expression_B_up
13	10.86	NULL	265	Glio willscher_GBM_Verhaak-MES_expression_B_up
14	10.86	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
15	10.86	NULL	265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
16	10.56	NULL	23	CC integral to luminal side of endoplasmic reticulum membrane
17	10.13	NULL	14	GSEA C2BIOCARTA_NO2IL12_PATHWAY
18	10.04	NULL	162	CC external side of plasma membrane
19	10	NULL	12	GSEA C2BIOCARTA_CTL_PATHWAY
20	9.93	NULL	11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
<i>Underexpressed</i>				
1	-19.1	NULL	135	H.Tiss WIRTH_Mucosa
2	-8.95	NULL	24	TF Tissue/AQUERIZAS_Trachea
3	-8.41	NULL	10	GSEA C2CHASSOT_SKIN_WOUND
4	-8.37	NULL	21	CC desmosome
5	-7.82	NULL	15	GSEA C2AIGNER_ZEB1_TARGETS
6	-7.75	NULL	16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
7	-7.74	NULL	603	miRNA target-starB20a
8	-7.54	NULL	565	miRNA target-starB20b
9	-7.54	NULL	10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_F
10	-7.5	NULL	16	GSEA C2NAGASHIMA_EGF_SIGNALING_UP
11	-7.44	NULL	538	miRNA target-starB31e
12	-7.36	NULL	511	miRNA target-starB31b
13	-7.29	NULL	488	miRNA target-starB31e
14	-7.11	NULL	436	miRNA target-starB31e
15	-7.11	NULL	517	miRNA target-starB31e
16	-7.1	NULL	313	miRNA target-starB31e
17	-6.87	NULL	76	BP epidermis development
18	-6.82	NULL	16	GSEA C2AMIT_SERUM_RESPONSE_40_MCF10A
19	-6.81	NULL	137	CC basolateral plasma membrane
20	-6.77	NULL	53	BP keratinocyte differentiation

p-values



GW_001

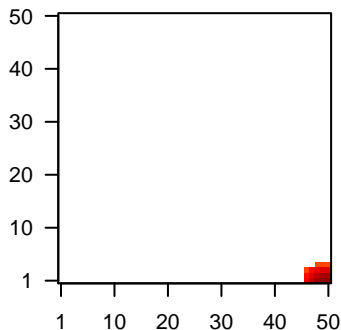
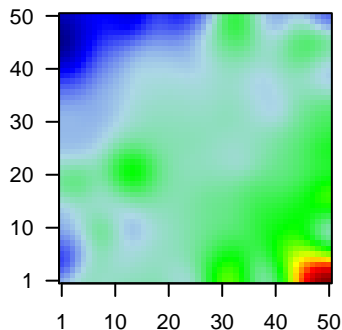
Local Summary

%DE = 0.98
 # metagenes = 18
 # genes = 283
 # genes in genesets = 281
 # genes with $fdr < 0.1 = 276$ (276 + / 0 -)
 # genes with $fdr < 0.05 = 273$ (273 + / 0 -)
 # genes with $fdr < 0.01 = 268$ (268 + / 0 -)

$\langle r \rangle$ metagenes = 0.99
 $\langle r \rangle$ genes = 0.59
 $\langle FC \rangle = 1.15$
 $\langle \text{shrinkage-t} \rangle = 40.3$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.05$

Profile

Spot



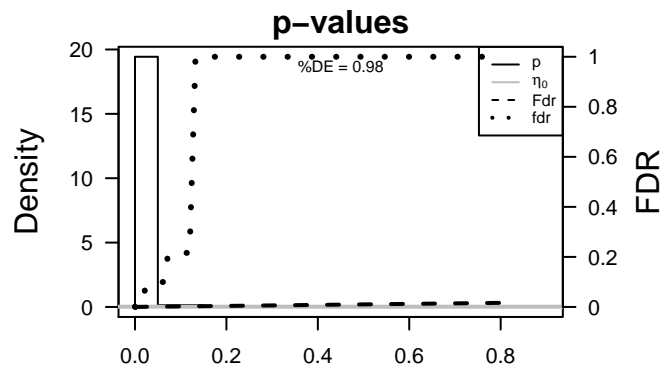
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	241	2.06	2e-16	2e-17	50 x 1 arachidonate 5-lipoxygenase-activating protein [Source:HGNC]
2	9459	1.5	2e-16	2e-17	50 x 1 Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 [Sou
3	713	1.83	2e-16	2e-17	50 x 1 complement component 1, q subcomponent, B chain [Source
4	260436	2.65	2e-16	2e-17	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
5	57172	1.83	2e-16	2e-17	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
6	6363	2.69	2e-16	2e-17	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc
7	6352	1.6	2e-16	2e-17	48 x 1 chemokine (C-C motif) ligand 5 [Source:HGNC Symbol;Acc:
8	930	2.05	2e-16	2e-17	49 x 1 CD19 molecule [Source:HGNC Symbol;Acc:1633]
9	914	1.76	2e-16	2e-17	49 x 1 CD2 molecule [Source:HGNC Symbol;Acc:1639]
10	919	1.58	2e-16	2e-17	50 x 1 CD247 molecule [Source:HGNC Symbol;Acc:1677]
11	939	1.54	2e-16	2e-17	49 x 1 CD27 molecule [Source:HGNC Symbol;Acc:11922]
12	915	2.29	2e-16	2e-17	49 x 1 CD3d molecule, delta (CD3-TCR complex) [Source:HGNC S
13	962	2.25	2e-16	2e-17	50 x 1 CD48 molecule [Source:HGNC Symbol;Acc:1683]
14	1043	1.99	2e-16	2e-17	50 x 1 CD52 molecule [Source:HGNC Symbol;Acc:1804]
15	963	1.69	2e-16	2e-17	50 x 1 CD53 molecule [Source:HGNC Symbol;Acc:1686]
16	924	1.76	2e-16	2e-17	49 x 1 CD7 molecule [Source:HGNC Symbol;Acc:1695]
17	925	1.6	2e-16	2e-17	48 x 1 CD8a molecule [Source:HGNC Symbol;Acc:1706]
18	11151	1.57	2e-16	2e-17	50 x 1 coronin, actin binding protein, 1A [Source:HGNC Symbol;Acc
19	51755	1.63	2e-16	2e-17	49 x 1 cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:242:
20	10563	2.25	2e-16	2e-17	50 x 1 chemokine (C-X-C motif) ligand 13 [Source:HGNC Symbol;f

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	35.23	NULL	96 / 417	H.Tiss WIRTH_Immune system
2	31.05	NULL	12 / 15	CC MHC class II protein complex
3	28.63	NULL	98 / 553	Cancer Lembcke_Colonc Inflammation
4	23.55	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
5	22.1	NULL	54 / 312	BP immune response
6	21	NULL	7 / 15	GSEA C2FINAK_BREAST_CANCER_SDPP_SIGNATURE
7	20.44	NULL	7 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
8	19.66	NULL	45 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
9	19.66	NULL	45 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
10	19.66	NULL	45 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
11	19.66	NULL	45 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
12	19.65	NULL	15 / 47	BP antigen processing and presentation
13	19.39	NULL	4 / 7	Glio Donson-chemokines/cytokines-associated with LTS in HGA
14	19.22	NULL	6 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HGA
15	19	NULL	8 / 13	Cancer GENTLES_modul18
16	18.9	NULL	6 / 15	Glio Donson-chemokines/cytokines-associated with LTS in HGA
17	18.89	NULL	7 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
18	17.98	NULL	18 / 74	BP regulation of immune response
19	17.63	NULL	6 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
20	17.3	NULL	18 / 60	BP T cell costimulation
21	16.41	NULL	6 / 13	GSEA C2BIOCARTA_IL17_PATHWAY
22	16.41	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
23	15.73	NULL	8 / 16	GSEA C2SU_THYMUS
24	15.4	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
25	15.02	NULL	4 / 8	GSEA C2GRAHAM_CML QUIESCENT_VS_NORMAL_DIVIDING_DN
26	14.97	NULL	2 / 4	MMML C6SCIEJ_MMML 2
27	14.92	NULL	27 / 162	CC external side of plasma membrane
28	14.87	NULL	5 / 8	GSEA C2BIOCARTA_TCR_PATHWAY
29	14.86	NULL	5 / 13	GSEA C2HAHTOLA_CTL_PATHOGENESIS
30	14.84	NULL	6 / 14	GSEA C2BIOCARTA_NO2IL12_PATHWAY
31	14.45	NULL	7 / 21	CC clathrin-coated endocytic vesicle membrane
32	14.41	NULL	18 / 84	BP T cell receptor signaling pathway
33	14.18	NULL	3 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
34	14.17	NULL	5 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
35	13.76	NULL	5 / 12	CC T cell receptor complex
36	13.71	NULL	7 / 23	CC integral to luminal side of endoplasmic reticulum membrane
37	13.5	NULL	4 / 8	GSEA C2BIOCARTA_TCAPOPTOSIS_PATHWAY
38	13.5	NULL	5 / 12	BP immunoglobulin mediated immune response
39	13.43	NULL	26 / 204	BP cell surface receptor signaling pathway
40	12.96	NULL	10 / 45	BP T cell activation



GW_001

Local Summary

%DE = 0.88
 # metagenes = 42
 # genes = 498
 # genes in genesets = 488
 # genes with $fdr < 0.1$ = 389 (12 + / 377 -)
 # genes with $fdr < 0.05$ = 381 (10 + / 371 -)
 # genes with $fdr < 0.01$ = 316 (8 + / 308 -)

$\langle r \rangle$ metagenes = 0.86

$\langle r \rangle$ genes = 0.34

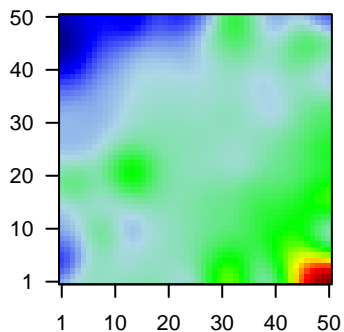
$\langle FC \rangle = -0.61$

$\langle \text{shrinkage-t} \rangle = -21.33$

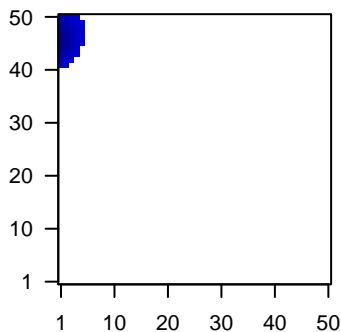
$\langle p\text{-value} \rangle = 0$

$\langle fdr \rangle = 0.3$

Profile



Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	133	-1.35	2e-16	9e-16	1 x 42 adrenomedullin [Source:HGNC Symbol;Acc:259]
2	8644	-1.74	2e-16	9e-16	1 x 50 aldo-keto reductase family 1, member C3 [Source:HGNC Sy
3	9982	-1.45	2e-16	9e-16	1 x 47 fibroblast growth factor binding protein 1 [Source:HGNC Syml
4	2697	-1.69	2e-16	9e-16	1 x 44 gap junction protein, alpha 1, 43kDa [Source:HGNC Symbol;]
5	10804	-1.8	2e-16	9e-16	1 x 47 gap junction protein, beta 6, 30kDa [Source:HGNC Symbol;A
6	2877	-1.65	2e-16	9e-16	1 x 50 glutathione peroxidase 2 (gastrointestinal) [Source:HGNC Sy
7	53833	-1.72	2e-16	9e-16	1 x 46 interleukin 20 receptor beta [Source:HGNC Symbol;Acc:6004
8	3963	-2.08	2e-16	9e-16	1 x 47 lectin, galactoside-binding, soluble, 7 [Source:HGNC Symbol
9	653499	-1.99	2e-16	9e-16	1 x 47 lectin, galactoside-binding, soluble, 7 [Source:HGNC Symbol
10	4501	-1.56	2e-16	9e-16	1 x 44 metallothionein 1X [Source:HGNC Symbol;Acc:7405]
11	5836	-1.73	2e-16	9e-16	1 x 44 phosphorylase, glycogen, liver [Source:HGNC Symbol;Acc:9]
12	390	-1.6	2e-16	9e-16	4 x 45 Rho family GTPase 3 [Source:HGNC Symbol;Acc:671]
13	5275	-1.5	2e-16	9e-16	1 x 50 serpin peptidase inhibitor, clade B (ovalbumin), member 13 [E
14	5268	-2.13	2e-16	9e-16	1 x 46 serpin peptidase inhibitor, clade B (ovalbumin), member 5 [Sc
15	84283	-1.47	2e-16	9e-16	1 x 48 transmembrane protein 79 [Source:HGNC Symbol;Acc:2819f
16	220963	-1.45	4e-16	1e-14	4 x 50 solute carrier family 16, member 9 [Source:HGNC Symbol;Ac
17	5358	-1.44	7e-16	3e-14	1 x 43 plastin 3 [Source:HGNC Symbol;Acc:9091]
18	150696	-1.43	1e-15	1e-13	2 x 45 prominin 2 [Source:HGNC Symbol;Acc:20685]
19	5744	-1.4	4e-15	1e-13	1 x 43 parathyroid hormone-like hormone [Source:HGNC Symbol;A
20	347735	-1.4	5e-15	1e-13	1 x 43 serine incorporator 2 [Source:HGNC Symbol;Acc:23231]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-47.24	NULL	111 / 135	H.Tiss WIRTH_Mucosa
2	-24.81	NULL	156 / 572	Disease GUDJ_psooriasis_up
3	-21.61	NULL	13 / 21	CC desmosome
4	-16.87	NULL	11 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
5	-16.43	NULL	8 / 15	GSEA C2AIGNER_ZEB1_TARGETS
6	-15.61	NULL	19 / 21	CC cornified envelope
7	-15.61	NULL	5 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
8	-14.38	NULL	11 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
9	-14.37	NULL	28 / 53	BP keratinocyte differentiation
10	-13.76	NULL	35 / 76	BP epidermis development
11	-12.7	NULL	9 / 16	GSEA C2JAEGGER_METASTASIS_DN
12	-12.4	NULL	9 / 16	GSEA C2COLDREN_GEFITINIB_RESISTANCE_DN
13	-12.29	NULL	8 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
14	-12.18	NULL	7 / 14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
15	-12.15	NULL	24 / 82	CC intermediate filament
16	-11.16	NULL	6 / 14	GSEA C2KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP
17	-10.99	NULL	4 / 13	GSEA C2REACTOME_GAP_JUNCTION_TRAFFICKING
18	-10.79	NULL	3 / 12	GSEA C2REACTOME_GAP_JUNCTION_ASSEMBLY
19	-10.44	NULL	21 / 42	BP keratinization
20	-9.66	NULL	5 / 15	GSEA C2FARMER_BREAST_CANCER_CLUSTER_3
21	-9.48	NULL	3 / 15	CC connexon complex
22	-9.31	NULL	5 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_4
23	-9.19	NULL	4 / 16	GSEA C2BECKER_TAMOXIFEN_RESISTANCE_DN
24	-9.13	NULL	4 / 12	H.Tiss WIRTH_Prim. lymphoid organs
25	-9.02	NULL	4 / 10	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_UP
26	-9.02	NULL	12 / 19	BP peptide cross-linking
27	-8.8	NULL	36 / 186	MF structural molecule activity
28	-8.77	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
29	-8.74	NULL	4 / 21	CC gap junction
30	-8.68	NULL	7 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN
31	-8.34	NULL	2 / 7	GSEA C2YE_METASTATIC_LIVER_CANCER
32	-8.31	NULL	4 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
33	-8.29	NULL	3 / 9	GSEA C2WANG_RESPONSE_TO_PACLITAXEL_VIA_MAPK8_UP
34	-8.26	NULL	2 / 2	miRNA target-199a*
35	-8.15	NULL	4 / 16	GSEA C2ELVIDGE_HIF1A_TARGETS_DN
36	-8.14	NULL	3 / 12	CC fascia adherens
37	-8.1	NULL	6 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
38	-8.1	NULL	2 / 6	GSEA C2WALLACE_PROSTATE_CANCER_DN
39	-8.03	NULL	3 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP
40	-7.85	NULL	3 / 5	GSEA C2FERRARI_RESPONSE_TO_FENRETINIDE_DN

p-values

