

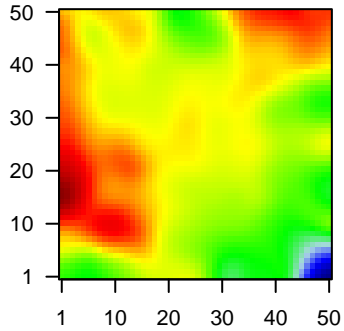
GW_278

Global Summary

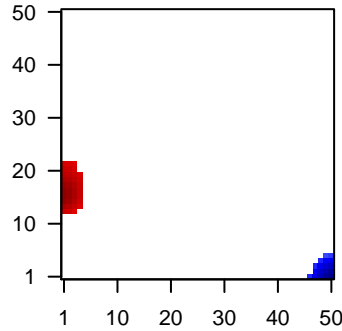
%DE = 0.13
 # genes with fdr < 0.2 = 1548 (826 + / 722 -)
 # genes with fdr < 0.1 = 1148 (629 + / 519 -)
 # genes with fdr < 0.05 = 1097 (599 + / 498 -)
 # genes with fdr < 0.01 = 693 (379 + / 314 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.13
 <fdr> = 0.87

Profile



Regulated Spots



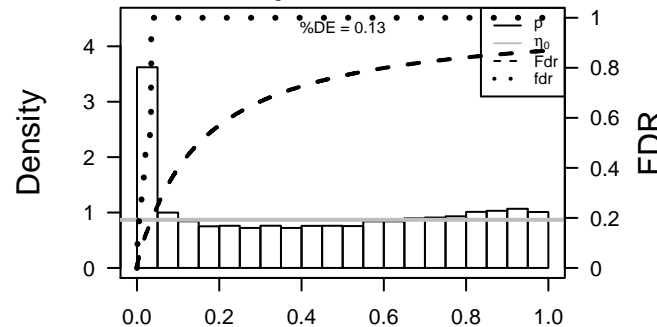
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	124	2.53	2e-16	6e-14	50 x 11 alcohol dehydrogenase 1A (class I), alpha polypeptide [Source:HGNC Symbol;Acc:328]
2	126	2.14	2e-16	6e-14	50 x 12 alcohol dehydrogenase 1C (class I), gamma polypeptide [Source:HGNC Symbol;Acc:329]
3	10551	2.77	2e-16	6e-14	50 x 10 anterior gradient 2 [Source:HGNC Symbol;Acc:328]
4	214	1.86	2e-16	6e-14	50 x 50 activated leukocyte cell adhesion molecule [Source:HGNC Symbol;Acc:328]
5	151516	1.72	2e-16	6e-14	1 x 46 aspartic peptidase, retroviral-like 1 [Source:HGNC Symbol;Acc:328]
6	10409	-1.76	2e-16	6e-14	1 x 2 brain abundant, membrane attached signal protein 1 [Source:HGNC Symbol;Acc:328]
7	10974	1.88	2e-16	6e-14	5 x 50 adipogenesis regulatory factor [Source:HGNC Symbol;Acc:328]
8	494514	1.59	2e-16	6e-14	46 x 48 chromosome 18 open reading frame 56 [Source:HGNC Symbol;Acc:328]
9	64073	1.55	2e-16	6e-14	1 x 46 chromosome 19 open reading frame 33 [Source:HGNC Symbol;Acc:328]
10	51806	1.69	2e-16	6e-14	4 x 50 calmodulin-like 5 [Source:HGNC Symbol;Acc:18180]
11	57172	-1.65	2e-16	6e-14	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HGNC Symbol;Acc:328]
12	6364	-2.08	2e-16	6e-14	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc:328]
13	1056	2.54	2e-16	6e-14	50 x 50 carboxyl ester lipase [Source:HGNC Symbol;Acc:1848]
14	1158	1.69	2e-16	6e-14	25 x 1 creatine kinase, muscle [Source:HGNC Symbol;Acc:1994]
15	9076	1.65	2e-16	6e-14	49 x 50 claudin 1 [Source:HGNC Symbol;Acc:2032]
16	26047	-1.61	2e-16	6e-14	50 x 50 contactin associated protein-like 2 [Source:HGNC Symbol;Acc:328]
17	92196	-1.64	2e-16	6e-14	3 x 50 death associated protein-like 1 [Source:HGNC Symbol;Acc:328]
18	1917	1.8	2e-16	6e-14	25 x 1 eukaryotic translation elongation factor 1 alpha 2 [Source:HGNC Symbol;Acc:328]
19	283229	1.69	2e-16	6e-14	50 x 10 EF-hand calcium binding domain 4A [Source:HGNC Symbol;Acc:328]
20	2167	-1.55	2e-16	6e-14	1 x 44 fatty acid binding protein 4, adipocyte [Source:HGNC Symbol;Acc:328]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	8.19	NULL	717	Chr Chr 16
2	7.41	NULL	21	CC cornified envelope
3	7.13	NULL	142	Glio wilscher_GBM_Verhaak-CL_expression_C_up
4	7.13	NULL	142	Glio wilscher_GBM_Verhaak-PNwt_expression_C_down
5	6.96	NULL	530	Cancer Lembcke_Normal vs Adenoma
6	5.97	NULL	13	GSEA C2WONG_ENDOMETRIUM_CANCER_UP
7	5.95	NULL	2	MMML C6SCIEJ_MMML_46
8	5.9	NULL	15	GSEA C2AGUIRRE_PANCREATIC_CANCER_COPY_NUMBER_UP
9	5.81	NULL	42	BP keratinization
10	5.77	NULL	743	Chr Chr 7
11	5.42	NULL	15	GSEA C2HOOI_ST7_TARGETS_UP
12	5.4	NULL	76	BP epidermis development
13	5.28	NULL	16	GSEA C2YANG_BREAST_CANCER_ESR1_BULK_UP
14	4.96	NULL	11	GSEA C2NIKOLSKY_BREAST_CANCER_7Q21_Q22_AMPLICON
15	4.95	NULL	57	Glio developing astrocytes
16	4.93	NULL	8	GSEA C2LIU_CDX2_TARGETS_DN
17	4.92	NULL	53	BP keratinocyte differentiation
18	4.84	NULL	370	BP mitotic cell cycle
19	4.75	NULL	1318	CC mitochondrion
20	4.68	NULL	1233	TF KIM_MYC targets
<i>Underexpressed</i>				
1	-13.52	NULL	553	Cancer Lembcke_Colonc Inflammation
2	-13.44	NULL	417	H.Tiss WIRTH_Immune system
3	-12.67	NULL	312	BP immune response
4	-11.22	NULL	15	CC MHC class II protein complex
5	-10.17	NULL	232	Chr Chr 18
6	-9.77	NULL	47	BP antigen processing and presentation
7	-9.12	NULL	274	Lymphoma SPANG_IL21 DN
8	-9.06	NULL	316	Cancer SPANG_BCL6-index2
9	-8.53	NULL	23	CC integral to luminal side of endoplasmic reticulum membrane
10	-8.44	NULL	699	Chr Chr 5
11	-8.35	NULL	280	Chr Chr 13
12	-7.83	NULL	32	CC ER to Golgi transport vesicle membrane
13	-7.51	NULL	5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
14	-7.36	NULL	60	BP interferon-gamma-mediated signaling pathway
15	-7.19	NULL	269	BP inflammatory response
16	-7	NULL	22	Lymphoma DAVE_NFKB BL DN
17	-6.87	NULL	265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
18	-6.87	NULL	265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
19	-6.87	NULL	265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
20	-6.87	NULL	265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down

p-values



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Local Summary

%DE = 0.59
 # metagenes = 37
 # genes = 398
 # genes in genesets = 396

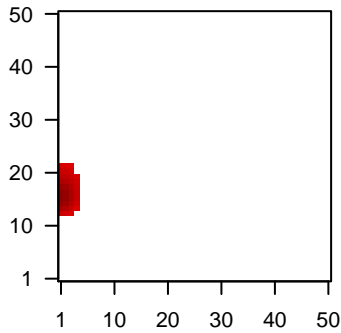
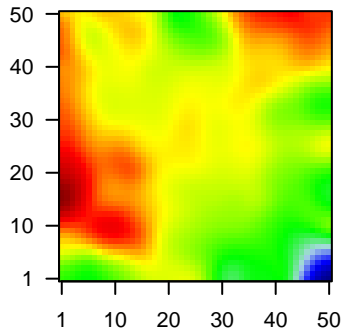
genes with $fdr < 0.1 = 131$ (125 + / 6 -)
 # genes with $fdr < 0.05 = 114$ (112 + / 2 -)
 # genes with $fdr < 0.01 = 57$ (55 + / 2 -)

<r> metagenes = 0.92
 <r> genes = 0.26

<FC> = 0.31
 <shrinkage-t> = 10.94
 <p-value> = 0.02
 <fdr> = 0.69

Profile

Spot



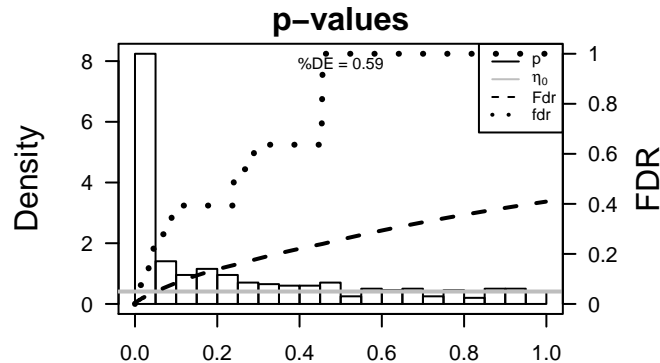
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	283869	2.2	2e-16	4e-14	1 x 17 neuropeptide W [Source:HGNC Symbol;Acc:30509]
2	388581	1.44	1e-14	7e-12	1 x 15 family with sequence similarity 132, member A [Source:HGNC]
3	1152	1.41	5e-14	1e-10	1 x 17 creatine kinase, brain [Source:HGNC Symbol;Acc:1991]
4	10428	1.34	8e-13	5e-09	1 x 15 craniofacial development protein 1 [Source:HGNC Symbol;Ac
5	4728	1.25	3e-11	7e-09	2 x 17 NADH dehydrogenase (ubiquinone) Fe-S protein 8, 23kDa (†
6	2017	1.22	7e-11	9e-09	1 x 14 cortactin [Source:HGNC Symbol;Acc:3338]
7	389541	1.21	1e-10	2e-08	3 x 19 late endosomal/lysosomal adaptor, MAPK and MTOR activat
8	2194	1.18	3e-10	6e-08	1 x 17 fatty acid synthase [Source:HGNC Symbol;Acc:3594]
9	10467	1.16	7e-10	1e-06	2 x 18 zinc finger, HIT-type containing 1 [Source:HGNC Symbol;Acc
10	10552	1.08	9e-09	1e-06	1 x 15 actin related protein 2/3 complex, subunit 1A, 41kDa [Source:
11	10202	1.04	3e-08	1e-06	1 x 15 dehydrogenase/reductase (SDR family) member 2 [Source:Hi
12	220064	1.04	3e-08	1e-06	1 x 14 oral cancer overexpressed 1 [Source:HGNC Symbol;Acc:175
13	219927	1.03	4e-08	2e-06	1 x 15 mitochondrial ribosomal protein L21 [Source:HGNC Symbol;#
14	284085	1.02	5e-08	2e-06	3 x 18 keratin 18 pseudogene 55 [Source:HGNC Symbol;Acc:26874
15	51367	1.02	6e-08	8e-06	1 x 17 processing of precursor 5, ribonuclease P/MRP subunit (S. c
16	4913	1	1e-07	9e-06	3 x 19 nth endonuclease III-like 1 (E. coli) [Source:HGNC Symbol;A
17	8772	0.97	2e-07	9e-06	1 x 14 Fas (TNFRSF6)--associated via death domain [Source:HGNC
18	6535	0.97	3e-07	9e-06	1 x 16 solute carrier family 6 (neurotransmitter transporter), member
19	2050	0.96	3e-07	9e-06	1 x 15 EPH receptor B4 [Source:HGNC Symbol;Acc:3395]
20	230	0.96	3e-07	9e-05	2 x 17 aldolase C, fructose-bisphosphate [Source:HGNC Symbol;A

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	10.95	NULL	5 / 16	GSEA C2WONG_MITOCHONDRIA_GENE_MODULE
2	10.73	NULL	1 / 3	GSEA C2KEGG_OXIDATIVE_PHOSPHORYLATION
3	10.73	NULL	1 / 3	GSEA C2KEGG_PARKINSONS_DISEASE
4	10.66	NULL	2 / 10	BP creatine metabolic process
5	9.7	NULL	5 / 10	GSEA C2REACTOME_HIV_LIFE_CYCLE
6	9.13	NULL	1 / 4	GSEA C2REACTOME_GLUCCOSE_REGULATION_OF_INSULIN_SECRETI
7	9.13	NULL	1 / 4	GSEA C2REACTOME_INTEGRATION_OF_ENERGY_METABOLISM
8	9.13	NULL	1 / 4	GSEA C2REACTOME_REGULATION_OF_INSULIN_SECRETION
9	8.97	NULL	3 / 13	GSEA C2MOOHTA_VOXPHOS
10	8.71	NULL	3 / 10	GSEA C2KEGG_HUNTINGTONS_DISEASE
11	8.63	NULL	3 / 14	GSEA C2PROVENZANI_METASTASIS_DN
12	8.11	NULL	5 / 16	GSEA C2MOOHTA_HUMAN_MITODB_6_2002
13	8.1	NULL	3 / 8	GSEA C2MUELLER_PLURINET
14	8.09	NULL	3 / 7	GSEA C2PARK_HSC_MARKERS
15	8.06	NULL	1 / 5	GSEA C2REACTOME_ELECTRON_TRANSPORT_CHAIN
16	7.95	NULL	4 / 14	GSEA C2STEIN_ESRRA_TARGETS_UP
17	7.93	NULL	2 / 15	GSEA C2FARMER_BREAST_CANCER_CLUSTER_7
18	7.89	NULL	19 / 96	BP rRNA processing
19	7.85	NULL	2 / 21	BP feeding behavior
20	7.63	NULL	5 / 15	GSEA C2ZHANG_RESPONSE_TO_CANTHARIDIN_DN
21	7.53	NULL	3 / 9	GSEA C2REACTOME_LATE_PHASE_OF_HIV_LIFE_CYCLE
22	7.47	NULL	2 / 8	GSEA C2REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION
23	7.23	NULL	3 / 11	GSEA C2REACTOME_CHAPERONIN_MEDIATED_PROTEIN_FOLDING
24	7.22	NULL	2 / 10	BP pantothenate metabolic process
25	7.22	NULL	2 / 10	GSEA C2REACTOME_VITAMIN_B5_(PANTOTHENATE)_METABOLISM
26	7.11	NULL	2 / 13	GSEA C2FULCHER_INFLAMMATORY_RESPONSE_LECTIN_VS_LPS_UP
27	7.01	NULL	4 / 10	MF NADH dehydrogenase activity
28	6.99	NULL	2 / 9	GSEA C2REACTOME_FORMATION_OF_THE_EARLY_ELONGATION_CO
29	6.99	NULL	2 / 9	GSEA C2REACTOME_HIV1_TRANSCRIPTION_ELONGATION
30	6.99	NULL	2 / 9	GSEA C2REACTOME_TRANSCRIPTION_OF_THE_HIV_GENOME
31	6.81	NULL	3 / 16	GSEA C2QUELLET_CULTURED_OVARIAN_CANCER_INVASIVE_VS_LMF
32	6.79	NULL	89 / 1318	CC mitochondrion
33	6.7	NULL	43 / 717	Chr Chr 16
34	6.58	NULL	2 / 10	GSEA C2REACTOME_TRANSCRIPTION
35	6.57	NULL	1 / 9	GSEA C2SOUYER_TUMOR_INVASIVENESS
36	6.51	NULL	2 / 12	GSEA C2WANG_SMARCE1_TARGETS_DN
37	6.39	NULL	5 / 13	GSEA C2REACTOME_GLYCOLYSIS
38	6.35	NULL	2 / 13	BP cell migration involved in sprouting angiogenesis
39	6.25	NULL	4 / 16	GSEA C2MOOHTA_MITOCHONDRIA
40	6.14	NULL	1 / 5	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C6



GW_278

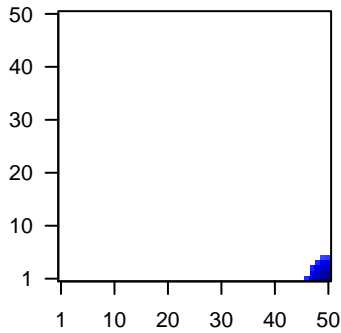
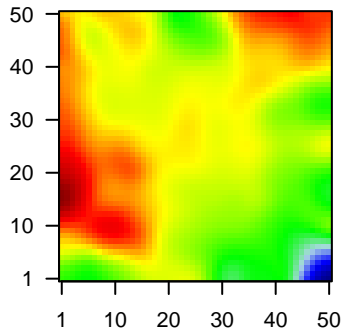
Local Summary

%DE = 0.89
 # metagenes = 18
 # genes = 295
 # genes in genesets = 293
 # genes with fdr < 0.1 = 239 (5 + / 234 -)
 # genes with fdr < 0.05 = 234 (5 + / 229 -)
 # genes with fdr < 0.01 = 180 (5 + / 175 -)

<r> metagenes = 0.98
 <r> genes = 0.56
 <FC> = -0.58
 <shrinkage-t> = -20.46
 <p-value> = 0
 <fdr> = 0.34

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	57172	-1.65	2e-16	9e-16	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HGNC Symbol;Acc:24222]
2	6364	-2.08	2e-16	9e-16	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc:24222]
3	3113	-1.62	2e-16	9e-16	50 x 1 major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:24222]
4	3122	-1.85	2e-16	9e-16	50 x 1 major histocompatibility complex, class II, DR alpha [Source:HGNC Symbol;Acc:24222]
5	3128	-1.62	2e-16	9e-16	50 x 1 major histocompatibility complex, class II, DR beta 6 (pseudogene) [Source:HGNC Symbol;Acc:24222]
6	3512	-1.87	2e-16	9e-16	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglobulin heavy chain [Source:HGNC Symbol;Acc:24222]
7	3543	-2.5	2e-16	9e-16	49 x 1 immunoglobulin lambda-like polypeptide 1 [Source:HGNC Symbol;Acc:24222]
8	5920	-1.56	2e-16	9e-16	48 x 1 retinoic acid receptor responder (tazarotene induced) 3 [Source:HGNC Symbol;Acc:24222]
9	1396	1.49	2e-15	3e-13	50 x 5 cysteine-rich protein 1 (intestinal) [Source:HGNC Symbol;Acc:24222]
10	972	-1.44	2e-14	3e-13	50 x 1 CD74 molecule, major histocompatibility complex, class II invariant chain [Source:HGNC Symbol;Acc:24222]
11	54855	-1.43	3e-14	3e-13	49 x 1 family with sequence similarity 46, member C [Source:HGNC Symbol;Acc:24222]
12	3108	-1.42	3e-14	4e-12	50 x 1 major histocompatibility complex, class II, DM alpha [Source:HGNC Symbol;Acc:24222]
13	51755	-1.39	1e-13	8e-12	49 x 1 cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:24222]
14	3109	-1.36	4e-13	2e-11	50 x 1 major histocompatibility complex, class II, DM beta [Source:HGNC Symbol;Acc:24222]
15	90701	-1.31	3e-12	2e-11	48 x 4 SEC11 homolog C (S. cerevisiae) [Source:HGNC Symbol;Acc:24222]
16	260436	-1.31	3e-12	2e-11	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbol;Acc:24222]
17	915	-1.31	3e-12	4e-11	49 x 1 CD3d molecule, delta (CD3-TCR complex) [Source:HGNC Symbol;Acc:24222]
18	5996	-1.3	4e-12	4e-11	50 x 1 regulator of G-protein signaling 1 [Source:HGNC Symbol;Acc:24222]
19	3120	-1.29	6e-12	4e-11	47 x 1 major histocompatibility complex, class II, DQ beta 2 [Source:HGNC Symbol;Acc:24222]
20	6578	-1.29	6e-12	7e-11	50 x 4 solute carrier organic anion transporter family, member 2A1 [Source:HGNC Symbol;Acc:24222]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-36.15	NULL	12 / 15	CC MHC class II protein complex
2	-25.25	NULL	91 / 417	H.Tiss WIRTH_Immune system
3	-23.06	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
4	-22.91	NULL	54 / 312	BP immune response
5	-22.51	NULL	96 / 553	Cancer Lembecke_Coloniac Inflammation
6	-21.82	NULL	15 / 47	BP antigen processing and presentation
7	-21.12	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
8	-19.43	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
9	-19.05	NULL	7 / 21	CC clathrin-coated endocytic vesicle membrane
10	-18.11	NULL	7 / 23	CC integral to luminal side of endoplasmic reticulum membrane
11	-17.01	NULL	3 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
12	-16.79	NULL	4 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN
13	-16.23	NULL	7 / 28	CC transport vesicle membrane
14	-16.2	NULL	2 / 4	MMML C6SICIEJ_MMML_2
15	-15.94	NULL	9 / 35	CC trans-Golgi network membrane
16	-15.91	NULL	44 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
17	-15.91	NULL	44 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
18	-15.91	NULL	44 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
19	-15.91	NULL	44 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
20	-15.05	NULL	7 / 32	CC ER to Golgi transport vesicle membrane
21	-15.05	NULL	15 / 60	BP T cell costimulation
22	-14.68	NULL	6 / 15	Glio Donson-chemokines/cytokines-associated with LTS in HGA
23	-14.59	NULL	14 / 87	BP antigen processing and presentation of exogenous peptide antigens
24	-14.4	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
25	-14.33	NULL	4 / 7	Glio Donson-cytotoxic effectors-associated with LTS in HGA
26	-14.08	NULL	4 / 9	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIIS_DN
27	-14.04	NULL	6 / 13	Cancer GENTLES_modul18
28	-13.93	NULL	2 / 6	GSEA C2LUI_THYROID_CANCER_CLUSTER_4
29	-13.04	NULL	16 / 84	BP T cell receptor signaling pathway
30	-13.02	NULL	9 / 46	CC endocytic vesicle membrane
31	-12.98	NULL	8 / 43	MF chemokine activity
32	-12.93	NULL	6 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
33	-12.81	NULL	8 / 52	Chr H5CHR6_MHC_QBL
34	-12.77	NULL	5 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_SURVIVED
35	-12.65	NULL	5 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
36	-12.63	NULL	25 / 162	CC external side of plasma membrane
37	-12.4	NULL	1 / 2	GSEA C2KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION
38	-12.4	NULL	1 / 2	GSEA C2KEGG_AUTOIMMUNE_THYROID_DISEASE
39	-12.4	NULL	1 / 2	GSEA C2KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS
40	-12.39	NULL	2 / 5	GSEA C2WEST_ADRENOCORCORTICAL_CARCCINOMA_VS_ADENOMA_DN

