

GW_043

Global Summary

%DE = 0.17
 # genes with fdr < 0.2 = 2225 (1219 + / 1006 -)
 # genes with fdr < 0.1 = 1822 (1033 + / 789 -)
 # genes with fdr < 0.05 = 1536 (899 + / 637 -)
 # genes with fdr < 0.01 = 1032 (651 + / 381 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.08
 <fdr> = 0.83

Global Genelist

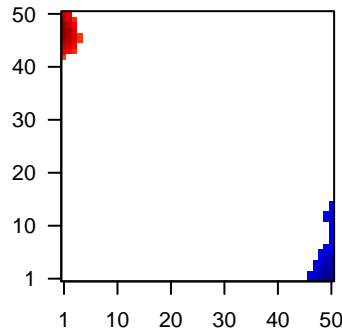
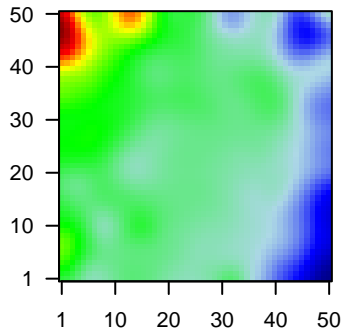
Rank	ID	log(FC)	fdr	p-value	Description
1	154664	1.82	2e-16	2e-14	50 x 50 ATP-binding cassette, sub-family A (ABC1), member 13 [Source:HGNC Symbol;Acc:100000000]
2	8745	1.89	2e-16	2e-14	50 x 50 ADAM metallopeptidase domain 23 [Source:HGNC Symbol;Acc:100000000]
3	131	2.17	2e-16	2e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide [Source:HGNC Symbol;Acc:100000000]
4	113146	1.68	2e-16	2e-14	1 x 44 AHNAK nucleoprotein 2 [Source:HGNC Symbol;Acc:20125]
5	231	1.69	2e-16	2e-14	9 x 4 aldo-keto reductase family 1, member B1 (aldose reductase) [Source:HGNC Symbol;Acc:100000000]
6	57016	2.39	2e-16	2e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase) [Source:HGNC Symbol;Acc:100000000]
7	441282	2.45	2e-16	2e-14	1 x 49 aldo-keto reductase family 1, member B15 [Source:HGNC Symbol;Acc:100000000]
8	1646	1.64	2e-16	2e-14	13 x 50 aldo-keto reductase family 1, member C2 [Source:HGNC Symbol;Acc:100000000]
9	8644	2.29	2e-16	2e-14	1 x 50 aldo-keto reductase family 1, member C3 [Source:HGNC Symbol;Acc:100000000]
10	1109	2.57	2e-16	2e-14	13 x 50 aldo-keto reductase family 1, member C4 [Source:HGNC Symbol;Acc:100000000]
11	222	1.98	2e-16	2e-14	1 x 49 aldehyde dehydrogenase 3 family, member B2 [Source:HGNC Symbol;Acc:100000000]
12	151516	1.77	2e-16	2e-14	1 x 46 aspartic peptidase, retroviral-like 1 [Source:HGNC Symbol;Acc:100000000]
13	84707	-1.56	2e-16	2e-14	50 x 48 brain expressed X-linked 2 [Source:HGNC Symbol;Acc:3093]
14	260436	-1.56	2e-16	2e-14	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbol;Acc:100000000]
15	29113	2.95	2e-16	2e-14	2 x 47 chromosome 6 open reading frame 15 [Source:HGNC Symbol;Acc:100000000]
16	51806	2.06	2e-16	2e-14	4 x 50 calmodulin-like 5 [Source:HGNC Symbol;Acc:18180]
17	57172	-1.99	2e-16	2e-14	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HGNC Symbol;Acc:100000000]
18	6364	-1.67	2e-16	2e-14	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc:100000000]
19	8900	2.44	2e-16	2e-14	1 x 42 cyclin A1 [Source:HGNC Symbol;Acc:1577]
20	948	1.52	2e-16	2e-14	6 x 44 CD36 molecule (thrombospondin receptor) [Source:HGNC Symbol;Acc:100000000]

Global Geneset Analysis

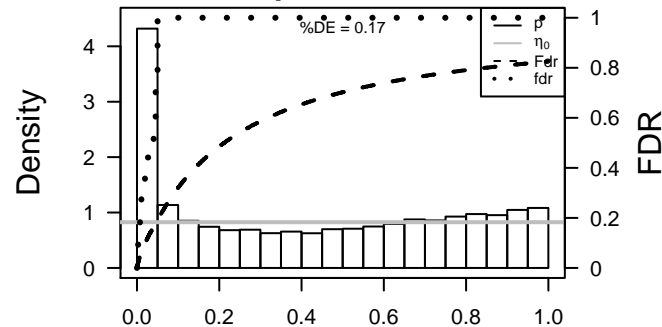
Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	20.08	NULL	135	H.Tiss WIRTH_Mucosa
2	12.46	NULL	76	BP epidermis development
3	12.28	NULL	21	CC cornified envelope
4	11.77	NULL	572	Disease GUDJ_psooriasis up
5	10.31	NULL	53	BP keratinocyte differentiation
6	9.31	NULL	42	BP keratinization
7	8.64	NULL	21	CC desmosome
8	8.6	NULL	449	Chr Chr 20
9	8.32	NULL	39	BP retinoid metabolic process
10	7.76	NULL	519	Chr Chr 14
11	7.63	NULL	16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
12	7.12	NULL	13	GSEA C2BRUECKNER_TARGETS_OF_MIRLET7A3_DN
13	7.02	NULL	16	GSEA C2JAEGER_METASTASIS_DN
14	6.79	NULL	10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
15	6.75	NULL	15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
16	6.6	NULL	16	GSEA C2ELVIDGE_HIF1A_AND_HIF2A_TARGETS_DN
17	6.42	NULL	15	MF retinol dehydrogenase activity
18	6.29	NULL	15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
19	6.17	NULL	63	BP phototransduction, visible light
20	6.15	NULL	10	BP white fat cell differentiation
<i>Underexpressed</i>				
1	-10.93	NULL	602	Chr Chr 10
2	-10.62	NULL	142	Glio wilscher_GBM_Verhaak-CL_expression_C_up
3	-10.62	NULL	142	Glio wilscher_GBM_Verhaak-PNmut_expression_C_down
4	-8.61	NULL	417	H.Tiss WIRTH_Immune system
5	-8.13	NULL	153	MF structural constituent of ribosome
6	-7.87	NULL	87	BP translational termination
7	-7.76	NULL	81	BP viral transcription
8	-7.68	NULL	92	BP translational elongation
9	-7.61	NULL	109	BP SRP-dependent cotranslational protein targeting to membrane
10	-7.61	NULL	167	CC ribosome
11	-7.39	NULL	43	MF chemokine activity
12	-7.1	NULL	4	MMML C6SCIEJ_MMML 23
13	-7.07	NULL	92	BP viral life cycle
14	-6.85	NULL	312	BP immune response
15	-6.84	NULL	370	BP mitotic cell cycle
16	-6.56	NULL	16	GSEA C2GRAHAM_CML_QUIESCENT_VS_CML_DIVIDING_UP
17	-6.52	NULL	304	CC mitochondrial inner membrane
18	-6.32	NULL	115	BP nuclear-transcribed mRNA catabolic process, nonsense-mediated decay
19	-6.31	NULL	100	Lymphomatosolowski_blue total
20	-6.3	NULL	553	Cancer Lembecke_Colonin Inflammation

Profile

Regulated Spots



p-values



GW_043

Local Summary

%DE = 0.87
 # metagenes = 26
 # genes = 347
 # genes in genesets = 340

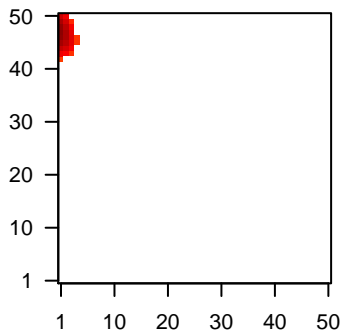
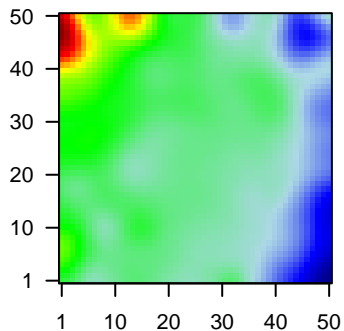
genes with $fdr < 0.1$ = 284 (264 + / 20 -)
 # genes with $fdr < 0.05$ = 267 (248 + / 19 -)
 # genes with $fdr < 0.01$ = 243 (228 + / 15 -)

<r> metagenes = 0.9
 <r> genes = 0.36

<FC> = 0.85
 <shrinkage-t> = 30.06
 <p-value> = 0
 <fdr> = 0.22

Profile

Spot



Local Genelist

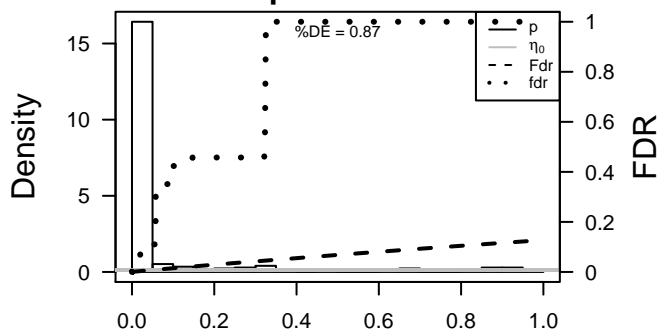
Rank	ID	log(FC)	fdr	p-value	Description
1	131	2.17	2e-16	1e-16	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
2	113146	1.68	2e-16	1e-16	1 x 44 AHNAK nucleoprotein 2 [Source:HGNC Symbol;Acc:20125]
3	57016	2.39	2e-16	1e-16	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase)
4	441282	2.45	2e-16	1e-16	1 x 49 aldo-keto reductase family 1, member B15 [Source:HGNC S
5	8644	2.29	2e-16	1e-16	1 x 50 aldo-keto reductase family 1, member C3 [Source:HGNC Syr
6	222	1.98	2e-16	1e-16	1 x 49 aldehyde dehydrogenase 3 family, member B2 [Source:HGNC
7	151516	1.77	2e-16	1e-16	1 x 46 aspartic peptidase, retroviral-like 1 [Source:HGNC Symbol;A
8	29113	2.95	2e-16	1e-16	2 x 47 chromosome 6 open reading frame 15 [Source:HGNC Symbc
9	8900	2.44	2e-16	1e-16	1 x 42 cyclin A1 [Source:HGNC Symbol;Acc:1577]
10	1041	2.1	2e-16	1e-16	1 x 46 corneodesmosin [Source:HGNC Symbol;Acc:1802]
11	1048	1.82	2e-16	1e-16	2 x 50 carcinoembryonic antigen-related cell adhesion molecule 5 [
12	4680	1.97	2e-16	1e-16	1 x 50 carcinoembryonic antigen-related cell adhesion molecule 6 (
13	22802	-1.75	2e-16	1e-16	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
14	84518	1.53	2e-16	1e-16	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
15	51200	1.65	2e-16	1e-16	1 x 44 carboxypeptidase A4 [Source:HGNC Symbol;Acc:15740]
16	1474	1.63	2e-16	1e-16	1 x 47 cystatin E/M [Source:HGNC Symbol;Acc:2478]
17	9547	2.13	2e-16	1e-16	1 x 46 chemokine (C-X-C motif) ligand 14 [Source:HGNC Symbol;f
18	1672	2.23	2e-16	1e-16	1 x 50 defensin, beta 1 [Source:HGNC Symbol;Acc:2766]
19	55894	1.61	2e-16	1e-16	1 x 47 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
20	414325	2.08	2e-16	1e-16	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	36.36	NULL	84 / 135	H.Tiss WIRTH_Mucosa
2	27.68	NULL	18 / 21	CC cornified envelope
3	25.58	NULL	121 / 572	Disease GUDJ_pсориаз up
4	22.92	NULL	27 / 76	BP epidermis development
5	20.47	NULL	24 / 53	BP keratinocyte differentiation
6	18.7	NULL	20 / 42	BP keratinization
7	16.96	NULL	12 / 21	CC desmosomes
8	15.08	NULL	10 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
9	14.45	NULL	7 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
10	11.76	NULL	10 / 19	BP peptide cross-linking
11	11.57	NULL	5 / 10	MF RAGE receptor binding
12	11.43	NULL	2 / 12	MF fatty acid binding
13	11.24	NULL	3 / 8	GSEA C2LIU_CDX2_TARGETS_DN
14	11.23	NULL	8 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
15	10.68	NULL	4 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
16	10.53	NULL	3 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
17	10.27	NULL	3 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP
18	10.03	NULL	3 / 12	MF retinol binding
19	9.7	NULL	6 / 16	GSEA C2JAEGER_METASTASIS_DN
20	9.54	NULL	4 / 13	BP retinoic acid metabolic process
21	9.32	NULL	4 / 16	GSEA C2BECKER_TAMOXIFEN_RESISTANCE_DN
22	9.31	NULL	1 / 10	BP white fat cell differentiation
23	9.31	NULL	5 / 39	BP retinoid metabolic process
24	9.2	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
25	9.13	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
26	8.91	NULL	4 / 13	GSEA C2REACTOME_GAP_JUNCTION_TRAFFICKING
27	8.91	NULL	6 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATE
28	8.9	NULL	3 / 11	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_BONE_DN
29	8.86	NULL	4 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LUNG_UP
30	8.8	NULL	1 / 11	GSEA C2REACTOME_HORMONE_SENSITIVE_LIPASE_HSL_MEDIATED
31	8.8	NULL	21 / 82	CC intermediate filament
32	8.69	NULL	3 / 12	BP cellular aldehyde metabolic process
33	8.61	NULL	3 / 13	BP intermediate filament cytoskeleton organization
34	8.57	NULL	3 / 15	MF retinol dehydrogenase activity
35	8.5	NULL	3 / 12	GSEA C2REACTOME_GAP_JUNCTION_ASSEMBLY
36	8.44	NULL	31 / 186	MF structural molecule activity
37	8.37	NULL	3 / 11	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_G_UP
38	8.3	NULL	6 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
39	8.23	NULL	3 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
40	8.2	NULL	6 / 15	GSEA C2AIGNER_ZEB1_TARGETS

p-values



GW_043

Local Summary

%DE = 0.86
 # metagenes = 36
 # genes = 589
 # genes in genesets = 586

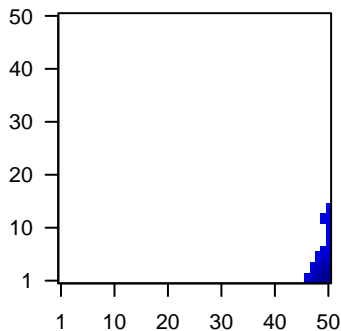
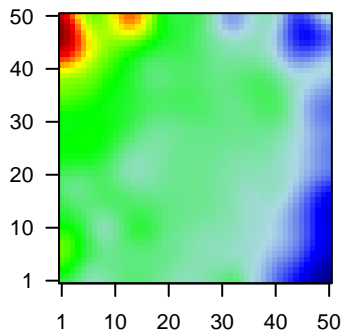
genes with $fdr < 0.1$ = 414 (18 + / 396 -)
 # genes with $fdr < 0.05$ = 400 (18 + / 382 -)
 # genes with $fdr < 0.01$ = 240 (8 + / 232 -)

$\langle r \rangle$ metagenes = 0.8
 $\langle r \rangle$ genes = 0.31

$\langle FC \rangle = -0.48$
 $\langle \text{shrinkage-t} \rangle = -16.78$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.46$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	260436	-1.56	2e-16	2e-15	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
2	57172	-1.99	2e-16	2e-15	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
3	6364	-1.67	2e-16	2e-15	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc
4	54855	-1.55	2e-16	2e-15	49 x 1 family with sequence similarity 46, member C [Source:HGNC
5	2568	-1.67	2e-16	2e-15	50 x 13 gamma-aminobutyric acid (GABA) A receptor, pi [Source:HG
6	3512	-2.11	2e-16	2e-15	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglobu
7	3543	-3.01	2e-16	2e-15	49 x 1 immunoglobulin lambda-like polypeptide 1 [Source:HGNC Sy
8	10628	-1.61	2e-16	2e-15	48 x 1 thioredoxin interacting protein [Source:HGNC Symbol;Acc:16
9	79085	-1.47	2e-15	8e-14	50 x 13 solute carrier family 25 (mitochondrial carrier; phosphate carr
10	51316	-1.47	2e-15	4e-13	50 x 13 placenta-specific 8 [Source:HGNC Symbol;Acc:19254]
11	6347	-1.43	1e-14	4e-13	50 x 4 chemokine (C-C motif) ligand 2 [Source:HGNC Symbol;Acc:1
12	10232	-1.42	2e-14	4e-13	50 x 11 mesothelin [Source:HGNC Symbol;Acc:7371]
13	51755	-1.42	2e-14	1e-12	49 x 1 cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:242
14	6228	-1.4	4e-14	1e-12	50 x 14 ribosomal protein S23 [Source:HGNC Symbol;Acc:10410]
15	8404	-1.39	7e-14	1e-12	50 x 6 SPARC-like 1 (hevin) [Source:HGNC Symbol;Acc:11220]
16	1396	-1.38	8e-14	1e-12	50 x 5 cysteine-rich protein 1 (intestinal) [Source:HGNC Symbol;Ac
17	6920	-1.38	9e-14	1e-11	50 x 13 transcription elongation factor A (SII), 3 [Source:HGNC Symb
18	135112	-1.36	2e-13	2e-11	50 x 13 nuclear receptor coactivator 7 [Source:HGNC Symbol;Acc:21
19	5552	-1.34	4e-13	9e-11	50 x 1 serglycin [Source:HGNC Symbol;Acc:9361]
20	1363	-1.3	2e-12	9e-11	50 x 7 carboxypeptidase E [Source:HGNC Symbol;Acc:2303]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-18.23	NULL	125 / 553	Cancer Lembecke_Colonic Inflammation
2	-17.95	NULL	97 / 417	H.Tiss WIRTH_Immune system
3	-17.61	NULL	14 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
4	-16.03	NULL	63 / 312	BP immune response
5	-14.78	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
6	-13.12	NULL	60 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
7	-13.12	NULL	60 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
8	-13.12	NULL	60 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
9	-13.12	NULL	60 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
10	-12.47	NULL	4 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
11	-12.35	NULL	12 / 15	CC MHC class II protein complex
12	-11.88	NULL	7 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HGA
13	-11.71	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
14	-11.6	NULL	1 / 6	H.Tiss WIRTH_Bone marrow
15	-11.06	NULL	5 / 9	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_DN
16	-11.04	NULL	4 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN
17	-10.36	NULL	5 / 9	GSEA C2GUTIERREZ_WALDENSTROEMS_MACROGLOBULINEMIA_1_D
18	-10.1	NULL	6 / 16	TF Tissue/AQUERIZAS_Salivary gland
19	-9.86	NULL	7 / 15	GSEA C2FINAK_BREAST_CANCER_SDPP_SIGNATURE
20	-9.78	NULL	7 / 15	Glio Donson-chemokines/cytokines-associated with LTS in HGA
21	-9.32	NULL	35 / 162	CC external side of plasma membrane
22	-9.11	NULL	4 / 15	GSEA C2NADERI_BREAST_CANCER_PROGNOSIS_DN
23	-8.99	NULL	7 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
24	-8.96	NULL	2 / 12	GSEA C2MCCABE_HOXC6_TARGETS_CANCER_UP
25	-8.93	NULL	5 / 7	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED
26	-8.86	NULL	4 / 7	Glio Donson-cytotoxic effectors-associated with LTS in HGA
27	-8.83	NULL	8 / 27	MF antigen binding
28	-8.8	NULL	20 / 74	BP regulation of immune response
29	-8.78	NULL	38 / 327	Lymphoma/SPANG_CD40 6hrs UP
30	-8.74	NULL	5 / 14	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_D
31	-8.48	NULL	4 / 15	GSEA C2NEWMAN_ERCC6_TARGETS_UP
32	-8.39	NULL	2 / 4	MMML C2SCIEJ_MMML 2
33	-8.34	NULL	5 / 15	GSEA C2SHIPP_DLCL_VS_FOLLICULAR_LYMPHOMA_DN
34	-8.29	NULL	5 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_
35	-8.29	NULL	37 / 316	Cancer SPANG_BCL6-index2
36	-8.25	NULL	105 / 1182	Cancer extracellular region
37	-8.24	NULL	16 / 47	BP antigen processing and presentation
38	-8.22	NULL	11 / 43	MF chemokine activity
39	-8.21	NULL	4 / 14	Lymphoma/RIGHT_GCB UP
40	-8.2	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP

