

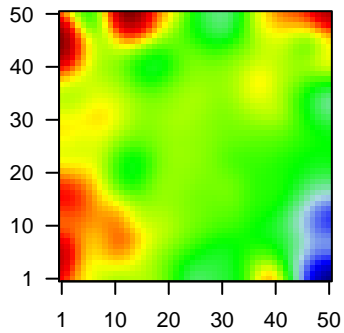
GW_010

Global Summary

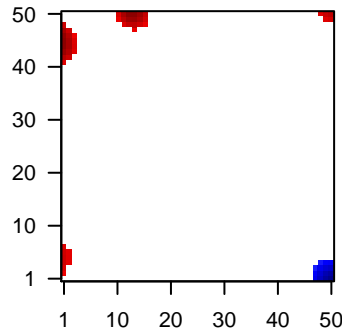
%DE = 0.14
 # genes with fdr < 0.2 = 1784 (1010 + / 774 -)
 # genes with fdr < 0.1 = 1197 (703 + / 494 -)
 # genes with fdr < 0.05 = 1007 (607 + / 400 -)
 # genes with fdr < 0.01 = 699 (450 + / 249 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.12
 <fdr> = 0.86

Profile



Regulated Spots



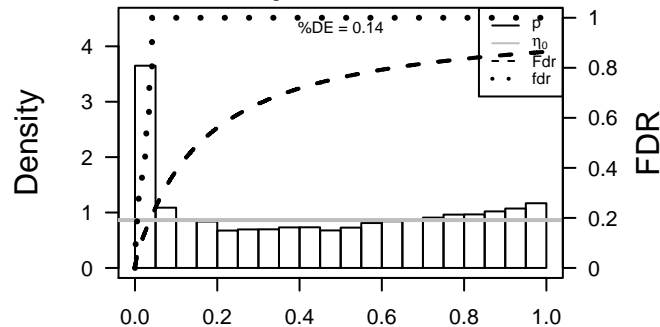
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	79852	-1.49	2e-16	6e-14	3 x 50 epoxide hydrolase 3 [Source:HGNC Symbol;Acc:23760]
2	57016	2.2	2e-16	6e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase)
3	441282	1.95	2e-16	6e-14	1 x 49 aldo-keto reductase family 1, member B15 [Source:HGNC Sy
4	1109	1.9	2e-16	6e-14	13 x 50 aldo-keto reductase family 1, member C4 [Source:HGNC Syr
5	218	2.24	2e-16	6e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
6	222	1.48	2e-16	6e-14	1 x 49 aldehyde dehydrogenase 3 family, member B2 [Source:HGNC
7	242	1.81	2e-16	6e-14	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syr
8	260436	-1.73	2e-16	6e-14	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
9	29113	1.97	2e-16	6e-14	2 x 47 chromosome 6 open reading frame 15 [Source:HGNC Symbc
10	26256	1.53	2e-16	6e-14	50 x 50 calcium binding tyrosine-(Y)-phosphorylation regulated [Sou
11	8900	1.39	2e-16	6e-14	1 x 42 cyclin A1 [Source:HGNC Symbol;Acc:1577]
12	894	1.78	2e-16	6e-14	50 x 4 cyclin D2 [Source:HGNC Symbol;Acc:1583]
13	10576	1.4	2e-16	6e-14	41 x 50 chaperonin containing TCP1, subunit 2 (beta) [Source:HGNC
14	972	-1.44	2e-16	6e-14	50 x 1 CD74 molecule, major histocompatibility complex, class II invr
15	63928	1.42	2e-16	6e-14	13 x 50 calcineurin-like EF-hand protein 2 [Source:HGNC Symbol;A
16	22802	-2.36	2e-16	6e-14	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
17	49860	-2.4	2e-16	6e-14	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
18	1466	-1.56	2e-16	6e-14	5 x 43 cysteine and glycine-rich protein 2 [Source:HGNC Symbol;A
19	1515	1.67	2e-16	6e-14	1 x 44 cathepsin V [Source:HGNC Symbol;Acc:2538]
20	9547	1.67	2e-16	6e-14	1 x 46 chemokine (C-X-C motif) ligand 14 [Source:HGNC Symbol;A

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	14.65	NULL	42	BP keratinization
2	10.91	NULL	866	Chr Chr 12
3	10.06	NULL	717	Chr Chr 16
4	9.94	NULL	21	CC cornified envelope
5	9.33	NULL	53	BP keratinocyte differentiation
6	8.77	NULL	918	Chr Chr 17
7	8.6	NULL	76	BP epidermis development
8	8.5	NULL	15	GSEA C2KORKOLA_YOLK_SAC_TUMOR_UP
9	8.35	NULL	19	BP peptide cross-linking
10	7.72	NULL	21	CC desmosome
11	6.36	NULL	16	GSEA C2KORKOLA_EMBRYONAL_CARCINOMA_UP
12	6.15	NULL	14	GSEA C2NIKOLSKY_BREAST_CANCER_12Q13_Q21_AMPLICON
13	6.1	NULL	11	GSEA C2TO_PTTG1_TARGETS_UP
14	6.08	NULL	449	Chr Chr 20
15	5.99	NULL	15	GSEA C2LEE_LIVER_CANCER_HEPATOBLAST
16	5.85	NULL	11	GSEA C2BIOCARTA_PLATELETAPP_PATHWAY
17	5.75	NULL	572	Disease GUDJ_poriasis up
18	5.63	NULL	10	GSEA C2CHASSOT_SKIN_WOUND
19	5.61	NULL	242	BP extracellular matrix organization
20	5.55	NULL	11	GSEA C2MURAKAMI_UV_RESPONSE_24HR
<i>Underexpressed</i>				
1	-12	NULL	15	CC MHC class II protein complex
2	-11.01	NULL	618	Chr Chr 4
3	-10.62	NULL	417	H.Tiss WIRTH_Immune system
4	-8.88	NULL	47	BP antigen processing and presentation
5	-8.84	NULL	1720	Chr Chr 1
6	-7.41	NULL	312	BP immune response
7	-7.15	NULL	23	CC integral to luminal side of endoplasmic reticulum membrane
8	-7.04	NULL	21	CC clathrin-coated endocytic vesicle membrane
9	-6.73	NULL	32	CC ER to Golgi transport vesicle membrane
10	-6.64	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
11	-6.58	NULL	60	BP T cell costimulation
12	-6.57	NULL	28	CC transport vesicle membrane
13	-6.37	NULL	6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
14	-6.24	NULL	8	GSEA C2RUNNE_GENDER_EFFECT_UP
15	-6.19	NULL	1135	Chr Chr 19
16	-6.02	NULL	7	MMML C2SCIEJ_MMML 5
17	-5.87	NULL	84	BP T cell receptor signaling pathway
18	-5.84	NULL	35	CC trans-Golgi network membrane
19	-5.76	NULL	87	BP antigen processing and presentation of exogenous peptide antigen
20	-5.72	NULL	60	BP interferon-gamma-mediated signaling pathway

p-values



GW_010

Local Summary

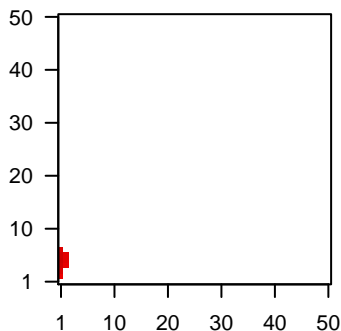
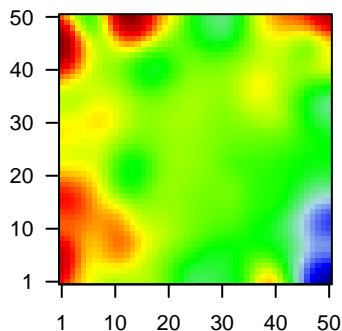
%DE = 0.77
 # metagenes = 9
 # genes = 178
 # genes in genesets = 176
 # genes with $fdr < 0.1$ = 83 (81 + / 2 -)
 # genes with $fdr < 0.05$ = 73 (71 + / 2 -)
 # genes with $fdr < 0.01$ = 62 (60 + / 2 -)

<r> metagenes = 0.97
 <r> genes = 0.36

<FC> = 0.36
 <shrinkage-t> = 12.83
 <p-value> = 0
 <fdr> = 0.55

Profile

Spot



Local Genelist

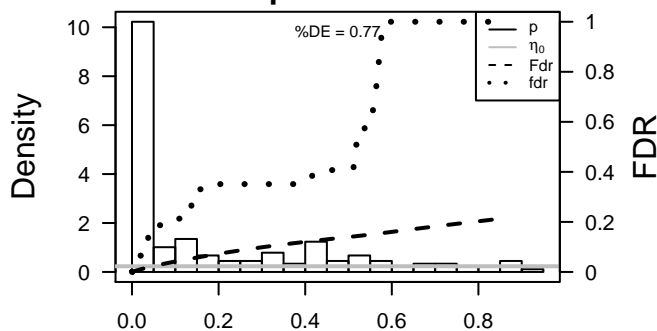
Rank	ID	log(FC)	fdr	p-value	Description
1	22943	1.48	2e-16	2e-15	1 x 7 dickkopf WNT signaling pathway inhibitor 1 [Source:HGNC S
2	10644	1.52	2e-16	2e-15	1 x 6 insulin-like growth factor 2 mRNA binding protein 2 [Source:t
3	284111	1.52	2e-16	2e-15	1 x 7 solute carrier family 13 (sodium-dependent citrate transport
4	3371	2.13	2e-16	2e-15	1 x 3 tenascin C [Source:HGNC Symbol;Acc:5318]
5	5054	1.34	2e-15	8e-14	1 x 2 serpin peptidase inhibitor, clade E (nexin, plasminogen activa
6	10468	1.32	4e-15	4e-13	1 x 5 follistatin [Source:HGNC Symbol;Acc:3971]
7	7045	1.19	1e-14	7e-11	1 x 2 transforming growth factor, beta-induced, 68kDa [Source:HG
8	650	1.19	2e-12	2e-10	1 x 4 bone morphogenetic protein 2 [Source:HGNC Symbol;Acc:1C
9	2201	1.15	9e-12	2e-10	1 x 5 fibrillin 2 [Source:HGNC Symbol;Acc:3604]
10	51330	1.14	2e-11	2e-10	1 x 4 tumor necrosis factor receptor superfamily, member 12A [Sou
11	8870	1.13	2e-11	4e-09	1 x 3 immediate early response 3 [Source:HGNC Symbol;Acc:5392
12	3918	1.09	1e-10	1e-08	1 x 4 laminin, gamma 2 [Source:HGNC Symbol;Acc:6493]
13	5834	1.04	6e-10	1e-08	1 x 7 phosphorylase, glycogen; brain [Source:HGNC Symbol;Acc:9
14	1294	1.04	7e-10	3e-08	1 x 5 collagen, type VII, alpha 1 [Source:HGNC Symbol;Acc:2214]
15	54972	1.02	1e-09	1e-07	1 x 7 transmembrane protein 132A [Source:HGNC Symbol;Acc:31
16	3625	0.99	4e-09	2e-07	2 x 5 inhibin, beta B [Source:HGNC Symbol;Acc:6067]
17	857	0.97	9e-09	1e-06	1 x 4 caveolin 1, caveolae protein, 22kDa [Source:HGNC Symbol;A
18	1948	0.92	4e-08	2e-06	1 x 5 ephrin-B2 [Source:HGNC Symbol;Acc:3227]
19	54549	0.9	1e-07	2e-06	1 x 7 sidekick cell adhesion molecule 2 [Source:HGNC Symbol;Acc
20	84058	0.87	2e-07	2e-06	1 x 7 WD repeat domain 54 [Source:HGNC Symbol;Acc:25770]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	19.94	NULL	4 / 16	GSEA C2BEGUM_TARGETS_OF_PAX3_FOXP01_FUSION_DN
2	18.23	NULL	2 / 5	GSEA C2VERNELL_RETINOBLASTOMA_PATHWAY_DN
3	15.56	NULL	6 / 35	Glio Colman_survival_associated
4	13.35	NULL	4 / 16	GSEA C2KERLEY_RESPONSE_TO_CISPLATIN_UP
5	13.22	NULL	1 / 4	GSEA C2ACOSTA_LOW_DOSE_UV_RESPONSE_VIA_ERCC3_XPCS_D
6	13.14	NULL	3 / 28	BP negative regulation of cell adhesion
7	12.67	NULL	4 / 12	BP hemidesmosome assembly
8	12.64	NULL	9 / 83	CC basement membrane
9	12.5	NULL	3 / 16	BP negative regulation of peptidyl-serine phosphorylation
10	12.44	NULL	3 / 13	GSEA C2CHIN_BREAST_CANCER_COPY_NUMBER_UP
11	12.4	NULL	1 / 10	BP prostate gland epithelium morphogenesis
12	11.97	NULL	3 / 15	GSEA C2LEE_LIVER_CANCER_HEPATOBLAST
13	11.86	NULL	1 / 6	GSEA C2REACTOME_GLUCOSE_AND_OTHER_SUGAR_SLC_TRANSPC
14	11.71	NULL	2 / 10	BP regulation of receptor activity
15	11.71	NULL	2 / 10	GSEA C2BIOCARTA_FIBRINOLYSIS_PATHWAY
16	11.54	NULL	1 / 2	miRNA target-16-1
17	11.51	NULL	27 / 242	BP extracellular matrix organization
18	11.48	NULL	32 / 403	BP cell adhesion
19	11.42	NULL	3 / 14	GSEA C2DITTMER_PTHLH_TARGETS_DN
20	11.4	NULL	2 / 10	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C4
21	11.39	NULL	2 / 4	miRNA target-195
22	11.26	NULL	3 / 16	GSEA C2AMIT_EGF_RESPONSE_60_HELA
23	11.01	NULL	2 / 10	GSEA C2DORN_ADENOVIRUS_INFECTION_12HR_DN
24	10.93	NULL	4 / 15	GSEA C2KANG_FLUOROURACIL_RESISTANCE_DN
25	10.79	NULL	2 / 15	GSEA C2AMIT_EGF_RESPONSE_240_MCF10A
26	10.77	NULL	2 / 10	BP negative regulation of blood coagulation
27	10.71	NULL	4 / 13	GSEA C2MAHADEVAN_GIST_MORPHOLOGICAL_SWITCH
28	10.68	NULL	1 / 13	Cancer GENTLES_modul17
29	10.65	NULL	2 / 12	GSEA C2KIM_WT1_TARGETS_8HR_UP
30	10.56	NULL	4 / 55	BP odontogenesis of dentin-containing tooth
31	10.38	NULL	1 / 6	GSEA C2MAINA_HYPOXIA_VHL_TARGETS_UP
32	10.24	NULL	3 / 16	GSEA C2KIM_WT1_TARGETS_UP
33	10.21	NULL	6 / 93	BP anatomical structure morphogenesis
34	10.15	NULL	3 / 14	GSEA C2CLIMENT_BREAST_CANCER_COPY_NUMBER_UP
35	9.95	NULL	3 / 11	Glio Phillips MES up vs Prolif & PN
36	9.93	NULL	1 / 2	miRNA target-101b
37	9.84	NULL	1 / 15	CC interstitial matrix
38	9.84	NULL	1 / 15	GSEA C2MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_UP
39	9.81	NULL	4 / 16	GSEA C2SESTO_RESPONSE_TO_UV_C8
40	9.75	NULL	2 / 12	BP keratinocyte proliferation

p-values



GW_010

Local Summary

%DE = 0.86
 # metagenes = 18
 # genes = 241
 # genes in genesets = 236

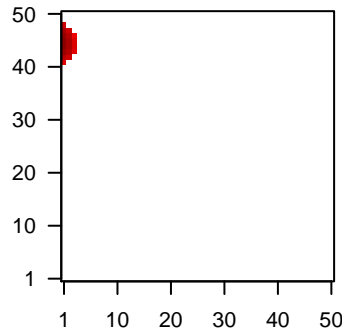
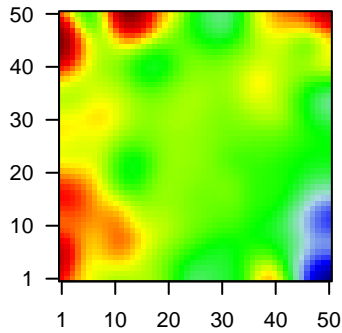
genes with $fdr < 0.1$ = 169 (150 + / 19 -)
 # genes with $fdr < 0.05$ = 155 (141 + / 14 -)
 # genes with $fdr < 0.01$ = 110 (102 + / 8 -)

<r> metagenes = 0.93
 <r> genes = 0.39

<FC> = 0.46
 <shrinkage-t> = 16.31
 <p-value> = 0
 <fdr> = 0.42

Profile

Spot



Local Genelist

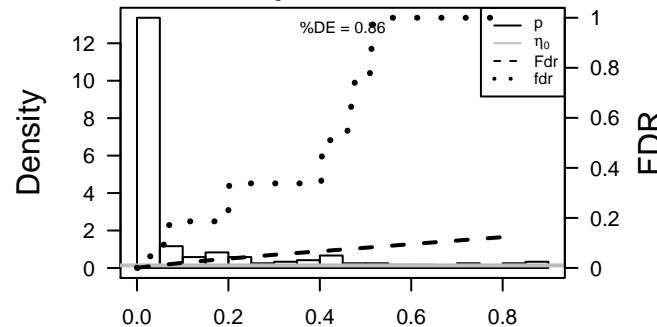
Rank	ID	log(FC)	fdr	p-value	Description
1	242	1.81	2e-16	6e-16	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syrr
2	29113	1.97	2e-16	6e-16	2 x 47 chromosome 6 open reading frame 15 [Source:HGNC Symbc
3	8900	1.39	2e-16	6e-16	1 x 42 cyclin A1 [Source:HGNC Symbol;Acc:1577]
4	1515	1.67	2e-16	6e-16	1 x 44 cathepsin V [Source:HGNC Symbol;Acc:2538]
5	9547	1.67	2e-16	6e-16	1 x 46 chemokine (C-X-C motif) ligand 14 [Source:HGNC Symbol;f
6	1823	2.17	2e-16	6e-16	1 x 45 desmocollin 1 [Source:HGNC Symbol;Acc:3035]
7	3848	1.68	2e-16	6e-16	1 x 47 keratin 1 [Source:HGNC Symbol;Acc:6412]
8	84648	1.62	2e-16	6e-16	1 x 48 late cornified envelope 3D [Source:HGNC Symbol;Acc:16615
9	3963	1.66	2e-16	6e-16	1 x 47 lectin, galactoside-binding, soluble, 7 [Source:HGNC Symbol
10	653499	1.49	2e-16	6e-16	1 x 47 lectin, galactoside-binding, soluble, 7 [Source:HGNC Symbol
11	118430	1.84	2e-16	6e-16	2 x 44 mucin-like 1 [Source:HGNC Symbol;Acc:30588]
12	5744	1.99	2e-16	6e-16	1 x 43 parathyroid hormone-like hormone [Source:HGNC Symbol;A
13	6706	2.82	2e-16	6e-16	1 x 48 small proline-rich protein 2G [Source:HGNC Symbol;Acc:112
14	29094	1.36	7e-16	2e-14	1 x 48 lectin, galactoside-binding-like [Source:HGNC Symbol;Acc:2
15	4753	1.34	2e-15	2e-14	1 x 44 NEL-like 2 (chicken) [Source:HGNC Symbol;Acc:7751]
16	286887	1.23	2e-15	2e-14	1 x 47 keratin 6C [Source:HGNC Symbol;Acc:20406]
17	1241	1.33	3e-15	2e-14	1 x 46 leukotriene B4 receptor [Source:HGNC Symbol;Acc:6713]
18	55076	1.33	3e-15	3e-14	1 x 46 transmembrane protein 45A [Source:HGNC Symbol;Acc:254f
19	3397	1.32	4e-15	8e-13	2 x 45 inhibitor of DNA binding 1, dominant negative helix-loop-heli
20	9119	1.28	3e-14	1e-12	1 x 44 keratin 75 [Source:HGNC Symbol;Acc:24431]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	22.27	NULL	10 / 21	CC desmosome
2	14.72	NULL	16 / 82	CC intermediate filament
3	14.59	NULL	9 / 44	CC keratin filament
4	14.34	NULL	35 / 135	H.Tiss WIRTH_Mucosa
5	13.97	NULL	2 / 2	miRNA target-199a*
6	13.35	NULL	6 / 42	BP keratinization
7	12.99	NULL	71 / 572	Disease GUDDJ_pсориаzis up
8	12.64	NULL	4 / 21	CC gap junction
9	11.82	NULL	2 / 8	GSEA C2L1U_CD_X2_TARGETS_DN
10	11.07	NULL	4 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
11	10.59	NULL	3 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP
12	10.34	NULL	14 / 76	BP epidermis development
13	10.22	NULL	7 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
14	10.19	NULL	5 / 21	CC cornified envelope
15	10.13	NULL	17 / 186	MF structural molecule activity
16	10.04	NULL	2 / 10	BP lipoygenase pathway
17	9.8	NULL	4 / 13	GSEA C2REACTOME_GAP_JUNCTION_TRAFFICKING
18	9.67	NULL	3 / 12	GSEA C2REACTOME_GAP_JUNCTION_ASSEMBLY
19	9.47	NULL	4 / 38	BP epithelial cell differentiation
20	9.25	NULL	1 / 7	GSEA C2BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_AND_PAX3
21	9.04	NULL	2 / 12	BP linoleic acid metabolic process
22	8.76	NULL	2 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
23	8.55	NULL	2 / 11	GSEA C2BIOCARTA_VITCB_PATHWAY
24	8.52	NULL	1 / 4	GSEA C2DACOSTA_LOW_DOSE_UV_RESPONSE_VIA_ERCC3_XPCS_D
25	8.5	NULL	3 / 15	CC connexon complex
26	8.15	NULL	7 / 53	BP keratinocyte differentiation
27	7.95	NULL	2 / 11	MF gamma-catenin binding
28	7.95	NULL	2 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
29	7.91	NULL	3 / 10	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_UP
30	7.84	NULL	5 / 15	GSEA C2AIGNER_ZEB1_TARGETS
31	7.51	NULL	1 / 10	BP surfactant homeostasis
32	7.36	NULL	2 / 15	GSEA C2GHO_ATF5_TARGETS_DN
33	7.2	NULL	6 / 99	BP homophilic cell adhesion
34	7.13	NULL	2 / 14	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED
35	7.12	NULL	3 / 11	GSEA C2MURAKAMI_UV_RESPONSE_24HR
36	7.12	NULL	2 / 15	GSEA C2AMIT_EGF_RESPONSE_240_MCF10A
37	7.03	NULL	3 / 10	GSEA C2DAZARD_UV_RESPONSE_CLUSTER_G3
38	6.94	NULL	3 / 13	BP intermediate filament cytoskeleton organization
39	6.92	NULL	2 / 19	BP ceramide biosynthetic process
40	6.76	NULL	4 / 16	GSEA C2ELVIDGE_HIF1A_TARGETS_DN

p-values



GW_010

Local Summary

%DE = 0.7
 # metagenes = 18
 # genes = 185
 # genes in genesets = 184
 # genes with $fdr < 0.1$ = 89 (87 + / 2 -)
 # genes with $fdr < 0.05$ = 88 (86 + / 2 -)
 # genes with $fdr < 0.01$ = 61 (60 + / 1 -)

$\langle r \rangle$ metagenes = 0.97

$\langle r \rangle$ genes = 0.25

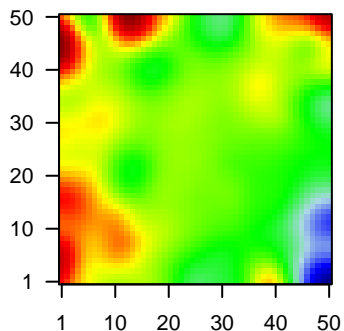
$\langle FC \rangle = 0.42$

$\langle \text{shrinkage-t} \rangle = 14.67$

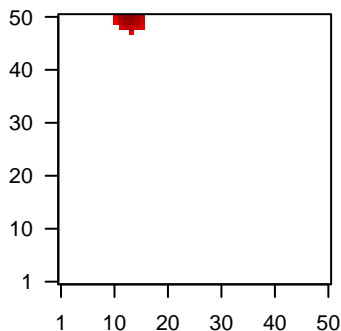
$\langle p\text{-value} \rangle = 0$

$\langle fdr \rangle = 0.53$

Profile



Spot



Local Genelist

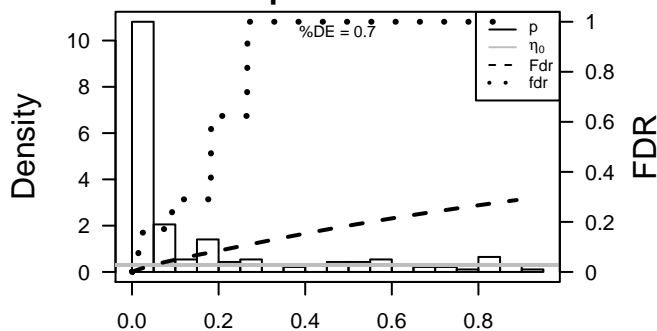
Rank	ID	log(FC)	fdr	p-value	Description
1	1109	1.9	2e-16	2e-15	13 x 50 aldo-keto reductase family 1, member C4 [Source:HGNC Sym]
2	63928	1.42	2e-16	2e-15	13 x 50 calcineurin-like EF-hand protein 2 [Source:HGNC Symbol;A]
3	57834	2.25	2e-16	2e-15	13 x 50 cytochrome P450, family 4, subfamily F, polypeptide 11 [Sour
4	7062	1.76	2e-16	2e-15	13 x 50 trichohyalin [Source:HGNC Symbol;Acc:11791]
5	83857	1.47	2e-16	2e-15	16 x 50 transmembrane and tetratricopeptide repeat containing 1 [So
6	493861	1.31	9e-15	1e-11	14 x 50 EP300 interacting inhibitor of differentiation 3 [Source:HGNC
7	10457	1.23	3e-13	9e-11	13 x 50 glycoprotein (transmembrane) nmb [Source:HGNC Symbol;A
8	51071	1.19	2e-12	1e-09	13 x 50 deoxyribose-phosphate aldolase (putative) [Source:HGNC S
9	5217	1.12	3e-11	1e-09	14 x 50 profilin 2 [Source:HGNC Symbol;Acc:8882]
10	2539	1.11	5e-11	7e-09	13 x 50 glucose-6-phosphate dehydrogenase [Source:HGNC Symb
11	344752	1.07	3e-10	7e-09	11 x 50 arylacetamide deacetylase-like 2 [Source:HGNC Symbol;Acc
12	2690	1.06	3e-10	3e-08	15 x 50 growth hormone receptor [Source:HGNC Symbol;Acc:4263]
13	4741	1.02	2e-09	3e-08	15 x 50 neurofilament, medium polypeptide [Source:HGNC Symbol;A
14	483	1.01	2e-09	3e-08	13 x 50 ATPase, Na+/K+ transporting, beta 3 polypeptide [Source:HG
15	340307	1.01	2e-09	3e-08	13 x 50 CTAGE family, member 6 [Source:HGNC Symbol;Acc:28644]
16	121536	1	3e-09	1e-07	11 x 50 AE binding protein 2 [Source:HGNC Symbol;Acc:24051]
17	144193	0.99	5e-09	1e-07	15 x 50 amidohydrolase domain containing 1 [Source:HGNC Symbol;
18	406988	0.98	6e-09	3e-07	12 x 50 MIR205 host gene (non-protein coding) [Source:HGNC Sym]
19	1749	0.96	1e-08	8e-07	13 x 50 distal-less homeobox 5 [Source:HGNC Symbol;Acc:2918]
20	3005	0.94	3e-08	8e-07	14 x 50 H1 histone family, member 0 [Source:HGNC Symbol;Acc:471

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	14.83	NULL	1 / 7	Glo Donson-cytotoxic effectors-associated with LTS in HGA
2	12.56	NULL	3 / 10	BP response to food
3	11.82	NULL	2 / 14	BP bile acid and bile salt transport
4	11.02	NULL	2 / 9	Glo Colman_survival_robust
5	10.5	NULL	4 / 13	GSEA C2SINGH_NFE2L2_TARGETS
6	9.48	NULL	3 / 31	BP bile acid metabolic process
7	9.22	NULL	1 / 16	GSEA C2BOYVAULT_LIVER_CANCER_SUBCLASS_G1_DN
8	9.14	NULL	1 / 12	BP androgen metabolic process
9	8.68	NULL	4 / 15	GSEA C2FARMER_BREAST_CANCER_CLUSTER_7
10	8.63	NULL	3 / 19	BP anatomical structure formation involved in morphogenesis
11	8.62	NULL	1 / 18	MF aromatase activity
12	8.54	NULL	4 / 32	BP NADP binding
13	8.29	NULL	4 / 51	MF osteoblast differentiation
14	8.28	NULL	2 / 15	GSEA C2KANG_FLUOROURACIL_RESISTANCE_UP
15	8.13	NULL	2 / 12	BP head development
16	7.79	NULL	3 / 22	BP proximal/distal pattern formation
17	7.63	NULL	2 / 16	GSEA C2REACTOME_BASIGIN_INTERACTIONS
18	7.62	NULL	2 / 15	BP pentose-phosphate shunt
19	7.57	NULL	2 / 13	BP regulation of smoothened signaling pathway
20	7.57	NULL	2 / 13	GSEA C2BIOCARTA_SHH_PATHWAY
21	7.4	NULL	1 / 15	GSEA C2NAGASHIMA_NRG1_SIGNALING_DN
22	7.27	NULL	3 / 17	MF proline-rich region binding
23	7.22	NULL	1 / 18	BP bile acid biosynthetic process
24	7.17	NULL	3 / 15	BP digestive tract morphogenesis
25	7.11	NULL	2 / 35	MF monoxygenase activity
26	7	NULL	2 / 12	BP nitric oxide biosynthetic process
27	6.81	NULL	1 / 6	GSEA C2ZAIU1_OSTEOBLAST_TRANSCRIPTION_FACTORS
28	6.81	NULL	1 / 6	GSEA C2NIELSEN_GIST_VS_SYNOVIAL_SARCOMA_UP
29	6.66	NULL	2 / 16	BP hormone-mediated signaling pathway
30	6.65	NULL	4 / 63	MF oxidoreductase activity, acting on paired donors, with incorporation
31	6.63	NULL	3 / 34	BP glutathione metabolic process
32	6.6	NULL	4 / 39	BP retinoid metabolic process
33	6.49	NULL	1 / 10	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_UP
34	6.46	NULL	2 / 44	BP steroid metabolic process
35	6.35	NULL	2 / 16	GSEA C2BIOCARTA_EIF4_PATHWAY
36	6.35	NULL	3 / 15	GSEA C2PODAR_RESPONSE_TO_ADAPHOSTIN_DN
37	6.27	NULL	2 / 10	BP oxaloacetate metabolic process
38	6.25	NULL	2 / 12	BP positive regulation of protein import into nucleus
39	6.14	NULL	1 / 11	GSEA C2TO_PTTG1_TARGETS_UP
40	6.13	NULL	2 / 16	GSEA C2BIOCARTA_TFF_PATHWAY

p-values



GW_010

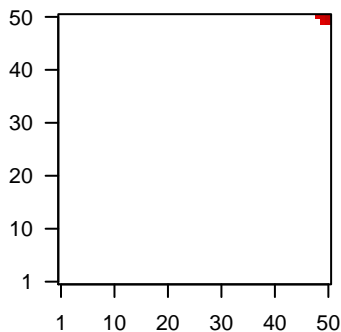
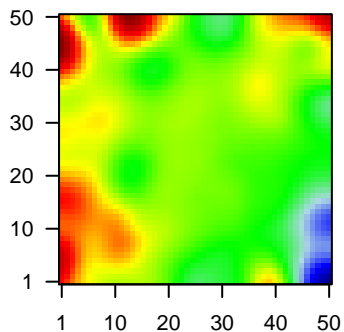
Local Summary

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 # metagenes = 5
 # genes = 130
 # genes in genesets = 129
 # genes with $fdr < 0.1$ = 64 (57 + / 7 -)
 # genes with $fdr < 0.05$ = 64 (57 + / 7 -)
 # genes with $fdr < 0.01$ = 45 (44 + / 1 -)

<r> metagenes = 0.99
 <r> genes = 0.31
 <FC> = 0.39
 <shrinkage-t> = 13.51
 <p-value> = 0
 <fdr> = 0.51

Profile

Spot



Local Genelist

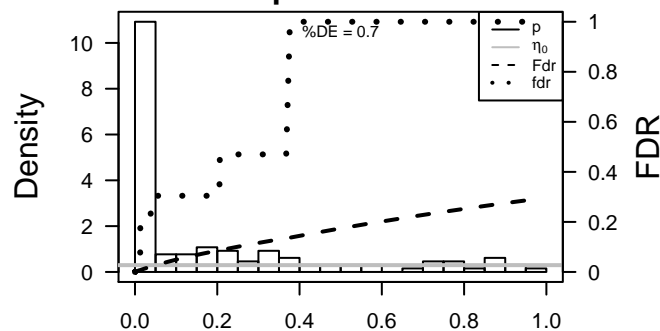
Rank	ID	log(FC)	fdr	p-value	Description
1	26256	1.53	2e-16	2e-15	50 x 50 calcium binding tyrosine-(Y)-phosphorylation regulated [Sou
2	2719	1.93	2e-16	2e-15	50 x 50 glypican 3 [Source:HGNC Symbol;Acc:4451]
3	2947	1.46	2e-16	2e-15	50 x 50 glutathione S-transferase mu 3 (brain) [Source:HGNC Symbx
4	4922	1.65	2e-16	2e-15	50 x 50 neurotensin [Source:HGNC Symbol;Acc:8038]
5	2304	1.31	8e-15	7e-13	50 x 50 forkhead box E1 (thyroid transcription factor 2) [Source:HGNC
6	139728	1.28	3e-14	3e-11	49 x 49 pregnancy up-regulated nonubiquitous CaM kinase [Source:l
7	10655	1.21	8e-13	6e-11	50 x 50 doublesex and mab-3 related transcription factor 2 [Source:H
8	4915	1.18	2e-12	7e-10	50 x 50 neurotrophic tyrosine kinase, receptor, type 2 [Source:HGNC
9	2729	1.13	2e-11	7e-10	50 x 50 glutamate-cysteine ligase, catalytic subunit [Source:HGNC S
10	4072	1.11	4e-11	5e-09	50 x 50 epithelial cell adhesion molecule [Source:HGNC Symbol;Acc:
11	344905	1.05	4e-10	5e-09	50 x 50 ATPase type 13A5 [Source:HGNC Symbol;Acc:31789]
12	26047	1.05	5e-10	5e-09	50 x 50 contactin associated protein-like 2 [Source:HGNC Symbol;Ac
13	205428	1.05	5e-10	5e-09	50 x 50 chromosome 3 open reading frame 58 [Source:HGNC Symbx
14	4953	1.04	6e-10	1e-08	50 x 50 ornithine decarboxylase 1 [Source:HGNC Symbol;Acc:8109]
15	55086	1.04	8e-10	1e-07	48 x 50 chromosome X open reading frame 57 [Source:HGNC Symbx
16	94234	0.99	4e-09	1e-07	50 x 50 forkhead box Q1 [Source:HGNC Symbol;Acc:20951]
17	84171	0.97	8e-09	5e-07	50 x 49 lysyl oxidase-like 4 [Source:HGNC Symbol;Acc:17171]
18	655	0.94	2e-08	5e-07	50 x 50 bone morphogenetic protein 7 [Source:HGNC Symbol;Acc:1C
19	3866	-0.93	3e-08	6e-07	50 x 50 keratin 15 [Source:HGNC Symbol;Acc:6421]
20	54578	0.92	5e-08	8e-06	50 x 50 UDP glucuronosyltransferase 1 family, polypeptide A6 [Sourc

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	21.4	NULL	1 / 4	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_13
2	17.11	NULL	2 / 7	GSEA C2MCCOLLUM_GELDANAMYCIN_RESISTANCE_DN
3	16.63	NULL	3 / 13	BP regulation of blood vessel size
4	14.39	NULL	5 / 15	GSEA C2KEGG_GLUTATHIONE_METABOLISM
5	13.12	NULL	6 / 25	BP glutathione derivative biosynthetic process
6	12.49	NULL	4 / 13	GSEA C2KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME
7	11.34	NULL	3 / 11	GSEA C2TO_PTTG1_TARGETS_UP
8	11.08	NULL	1 / 12	MF heparan sulfate proteoglycan binding
9	10.97	NULL	1 / 2	miRNA target-127
10	10.82	NULL	2 / 12	GSEA C2LEE_METASTASIS_AND_ALTERNATIVE_SPLICING_DN
11	10.58	NULL	1 / 13	BP positive regulation of endocytosis
12	10.49	NULL	2 / 9	GSEA C2REACTOME_GLYCUCURONIDATION
13	10.3	NULL	8 / 34	BP glutathione metabolic process
14	10.02	NULL	11 / 119	BP xenobiotic metabolic process
15	9.95	NULL	1 / 11	Glo neurons_glio
16	9.91	NULL	5 / 20	MF glutathione transferase activity
17	9.9	NULL	3 / 33	BP regulation of sequence-specific DNA binding transcription factor a
18	9.74	NULL	1 / 15	BP anterior/posterior axis specification
19	9.74	NULL	1 / 15	BP negative regulation of growth
20	9.74	NULL	1 / 15	GSEA C2LOPEZ_MBD_TARGETS_IMPRINTED_AND_X_LINKED
21	9.71	NULL	1 / 10	GSEA C2WEBER_METHYLATED_HCP_IN_SPERM_DN
22	9.52	NULL	3 / 32	BP glycosaminoglycan biosynthetic process
23	9.38	NULL	2 / 24	BP positive regulation of glucose import
24	9.34	NULL	3 / 11	MF glutathione binding
25	9.34	NULL	3 / 11	GSEA C2KEGG_DRUG_METABOLISM_CYTOCHROME_P450
26	9.33	NULL	2 / 20	TF MYC_Metabolism UP
27	9.33	NULL	2 / 16	GSEA C2SOUYER_TATI_TARGETS_DN
28	9.24	NULL	3 / 12	GSEA C2BROCKE_APOPTOSIS_REVERSED_BY_IL6
29	9.14	NULL	2 / 23	BP hair follicle morphogenesis
30	8.81	NULL	2 / 9	GSEA C2REACTOME_METABOLISM_OF_AMINO_ACIDS
31	8.81	NULL	2 / 14	CC membrane-bounded vesicle
32	8.77	NULL	1 / 18	CC anchored to plasma membrane
33	8.73	NULL	1 / 8	GSEA C2NIELSEN_LIPOSARCOMA_UP
34	8.63	NULL	2 / 10	GSEA C2CONRAD_STEM_CELL
35	8.5	NULL	1 / 19	BP negative regulation of smoothened signaling pathway
36	8.5	NULL	1 / 19	BP positive regulation of smoothened signaling pathway
37	8.36	NULL	1 / 12	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_BRAIN_DN
38	8.3	NULL	1 / 15	MF neuropeptide hormone activity
39	8.2	NULL	2 / 20	BP long-term memory
40	8.16	NULL	1 / 7	GSEA C2REACTOME_REGULATION_OF_ORNITHINE_DECARBOXYLASE

p-values



GW_010

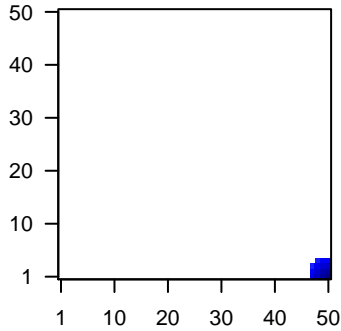
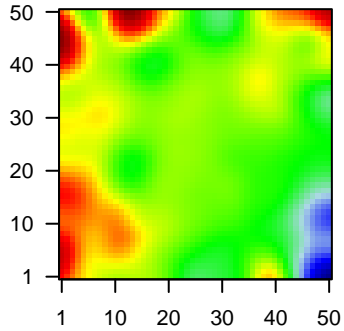
Local Summary

%DE = 0.9
 # metagenes = 15
 # genes = 260
 # genes in genesets = 258
 # genes with $fdr < 0.1$ = 217 (12 + / 205 -)
 # genes with $fdr < 0.05$ = 217 (12 + / 205 -)
 # genes with $fdr < 0.01$ = 149 (9 + / 140 -)

<r> metagenes = 0.99
 <r> genes = 0.59
 <FC> = -0.47
 <shrinkage-t> = -16.45
 <p-value> = 0
 <fdr> = 0.37

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	260436	-1.73	2e-16	1e-15	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
2	894	1.78	2e-16	1e-15	50 x 4 cyclin D2 [Source:HGNC Symbol;Acc:1583]
3	972	-1.44	2e-16	1e-15	50 x 1 CD74 molecule, major histocompatibility complex, class II inv.
4	3109	-1.45	2e-16	1e-15	50 x 1 major histocompatibility complex, class II, DM beta [Source:H
5	3113	-1.4	2e-16	1e-15	50 x 1 major histocompatibility complex, class II, DP alpha 1 [Source
6	3122	-1.59	2e-16	1e-15	50 x 1 major histocompatibility complex, class II, DR alpha [Source:!
7	6363	-1.28	3e-14	4e-13	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc
8	3108	-1.28	3e-14	1e-12	50 x 1 major histocompatibility complex, class II, DM alpha [Source:!
9	2634	-1.26	8e-14	1e-11	47 x 1 guanylate binding protein 2, interferon-inducible [Source:HG!
10	713	-1.21	6e-13	1e-11	50 x 1 complement component 1, q subcomponent, B chain [Source
11	3512	-1.21	8e-13	4e-11	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglo
12	7351	-1.18	2e-12	6e-11	50 x 1 uncoupling protein 2 (mitochondrial, proton carrier) [Source:H
13	4283	-1.17	5e-12	5e-10	49 x 1 chemokine (C-X-C motif) ligand 9 [Source:HGNC Symbol;Ac
14	3936	-1.13	2e-11	8e-09	50 x 1 lymphocyte cytosolic protein 1 (L-plastin) [Source:HGNC Syr
15	3689	-1.06	3e-10	2e-08	50 x 1 integrin, beta 2 (complement component 3 receptor 3 and 4 s
16	241	-1.03	1e-09	7e-08	50 x 1 arachidonate 5-lipoxygenase-activating protein [Source:HG!
17	9806	-0.98	7e-09	7e-08	50 x 1 sparco/osteonectin, cwcv and kazal-like domains proteoglycar
18	3620	-0.98	7e-09	7e-08	48 x 1 indoleamine 2,3-dioxygenase 1 [Source:HGNC Symbol;Acc:!
19	3394	-0.97	9e-09	8e-08	50 x 1 interferon regulatory factor 8 [Source:HGNC Symbol;Acc:535
20	51755	0.96	1e-08	9e-08	49 x 1 cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:242!

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-40.48	NULL	12 / 15	CC MHC class II protein complex
2	-24.75	NULL	15 / 47	BP antigen processing and presentation
3	-23.09	NULL	89 / 417	H.Tiss WIRTH_Immune system
4	-21.03	NULL	7 / 21	CC clathrin-coated endocytic vesicle membrane
5	-20.18	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
6	-20	NULL	7 / 23	CC integral to luminal side of endoplasmic reticulum membrane
7	-20	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
8	-19.28	NULL	48 / 312	BP immune response
9	-19.16	NULL	92 / 553	Cancer Lembcke_Colonc Inflammation
10	-18.7	NULL	14 / 60	BP T cell costimulation
11	-17.94	NULL	7 / 28	CC transport vesicle membrane
12	-17.33	NULL	43 / 265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
13	-17.33	NULL	43 / 265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
14	-17.33	NULL	43 / 265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
15	-17.33	NULL	43 / 265	Glio wilscher_GBM_Verhaak-PNmut_expression_B_down
16	-17.16	NULL	6 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
17	-17	NULL	2 / 4	GSEA C2KEGG_LEISHMANIA_INFECTION
18	-16.67	NULL	6 / 8	CC Donson-migration tethering and rolling-associated with LTS in HG
19	-16.66	NULL	7 / 32	Glio ER to Golgi transport vesicle membrane
20	-16.54	NULL	8 / 35	CC trans-Golgi network membrane
21	-16.42	NULL	5 / 12	BP immunoglobulin mediated immune response
22	-16.3	NULL	2 / 6	GSEA C2LUI_THYROID_CANCER_CLUSTER_4
23	-15.67	NULL	12 / 87	BP antigen processing and presentation of exogenous peptide antigen
24	-15.62	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
25	-15.43	NULL	2 / 4	GSEA C2REACTOME_CLASSICAL_ANTIBODY_MEDIATED_COMPLEMEN
26	-15.35	NULL	3 / 8	GSEA C2INDSTEDT_DENDRITIC_CELL_MATURATION_D
27	-15.26	NULL	5 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
28	-15.16	NULL	5 / 17	BP positive regulation of neutrophil chemotaxis
29	-14.8	NULL	8 / 46	CC endocytic vesicle membrane
30	-14.41	NULL	4 / 8	GSEA C2GRAHAM_CML QUIESCENT_VS_NORMAL_DIVIDING_DN
31	-14.25	NULL	5 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
32	-14.19	NULL	5 / 12	BP dendritic cell chemotaxis
33	-14.11	NULL	1 / 2	GSEA C2KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUC
34	-14.11	NULL	1 / 2	GSEA C2KEGG_AUTOIMMUNE_THYROID_DISEASE
35	-14.11	NULL	1 / 2	GSEA C2KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS
36	-14.06	NULL	4 / 8	GSEA C2NIELSEN_SYNOVIAL_SARCOMA_DN
37	-13.98	NULL	6 / 15	GSEA C2FINAK_BREAST_CANCER_SDPD_SIGNATURE
38	-13.74	NULL	10 / 60	BP interferon-gamma-mediated signaling pathway
39	-13.52	NULL	3 / 10	GSEA C2HOSHIDA_LIVER_CANCER_SUBCLASS_S1
40	-13.31	NULL	8 / 52	Chr Chr HSCHR6_MHC_QBL

