

GW_189

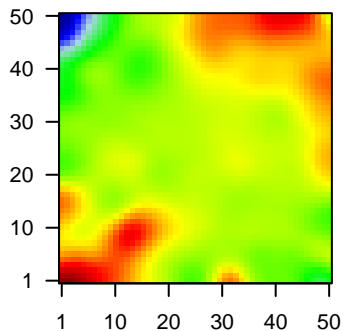
Global Summary

%DE = 0.14
 # genes with $fdr < 0.2$ = 1834 (1013 + / 821 -)
 # genes with $fdr < 0.1$ = 1477 (802 + / 675 -)
 # genes with $fdr < 0.05$ = 1128 (600 + / 528 -)
 # genes with $fdr < 0.01$ = 740 (396 + / 344 -)

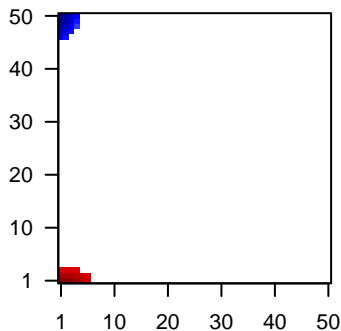
 # genes in genesets = 16332

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

Profile



Regulated Spots



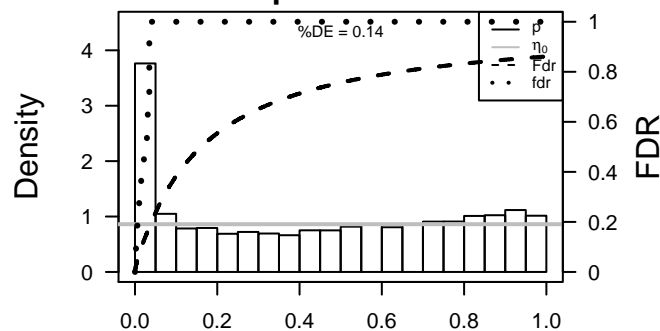
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	-1.56	2e-16	4e-14	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	131	-1.85	2e-16	4e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	57016	-1.92	2e-16	4e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
4	441282	-1.67	2e-16	4e-14	1 x 49 aldo-keto reductase family 1, member B15 [Source:HGNC S
5	220	2.15	2e-16	4e-14	4 x 46 aldehyde dehydrogenase 1 family, member A3 [Source:HGNC
6	387695	-2.18	2e-16	4e-14	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
7	56892	1.47	2e-16	4e-14	50 x 7 chromosome 8 open reading frame 4 [Source:HGNC Symbol
8	51806	-1.84	2e-16	4e-14	4 x 50 calmodulin-like 5 [Source:HGNC Symbol;Acc:18180]
9	875	1.65	2e-16	4e-14	49 x 47 cystathionine-beta-synthase [Source:HGNC Symbol;Acc:15
10	6364	2.55	2e-16	4e-14	46 x 1 chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc
11	6366	1.39	2e-16	4e-14	50 x 2 chemokine (C-C motif) ligand 21 [Source:HGNC Symbol;Acc
12	6355	1.67	2e-16	4e-14	32 x 1 chemokine (C-C motif) ligand 8 [Source:HGNC Symbol;Acc:
13	1152	-1.8	2e-16	4e-14	1 x 17 creatine kinase, brain [Source:HGNC Symbol;Acc:1991]
14	1308	-1.57	2e-16	4e-14	1 x 43 collagen, type XVII, alpha 1 [Source:HGNC Symbol;Acc:2194
15	1281	1.25	2e-16	4e-14	2 x 1 collagen, type III, alpha 1 [Source:HGNC Symbol;Acc:2201]
16	1363	1.5	2e-16	4e-14	50 x 7 carboxypeptidase E [Source:HGNC Symbol;Acc:2303]
17	541466	1.49	2e-16	4e-14	14 x 11 cancer/testis antigen family 45, member A1 [Source:HGNC S
18	441520	3.05	2e-16	4e-14	14 x 11 cancer/testis antigen family 45, member A2 [Source:HGNC S
19	441521	1.57	2e-16	4e-14	14 x 11 cancer/testis antigen family 45, member A2 [Source:HGNC S
20	140690	1.62	2e-16	4e-14	18 x 11 CCCTC-binding factor (zinc finger protein)-like [Source:HGNC

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	9.66	NULL	16	GSEA C2MOSERLE_IFNA_RESPONSE
2	9.02	NULL	31	BP negative regulation of viral genome replication
3	8.73	NULL	16	GSEA C2MAHADEVAN_RESPONSE_TO_MP470_UP
4	8.59	NULL	8	GSEA C2ROETH_TERT_TARGETS_UP
5	8.31	NULL	534	Chr Chr 8
6	8.17	NULL	16	GSEA C2EINAV_INTERFERON_SIGNATURE_IN_CANCER
7	8.11	NULL	743	Chr Chr 7
8	7.79	NULL	13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
9	7.77	NULL	4	MMML C2CIEJ_MMML_47
10	7.75	NULL	10	GSEA C2BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
11	7.4	NULL	51	BP type I interferon signaling pathway
12	6.94	NULL	123	BP defense response to virus
13	6.83	NULL	109	BP response to virus
14	6.71	NULL	253	BP translation
15	6.68	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
16	6.45	NULL	11	GSEA C2NIKOLSKY_BREAST_CANCER_7Q21_Q22_AMPLICON
17	6.34	NULL	16	GSEA C2ZHANG_INTERFERON_RESPONSE
18	6.26	NULL	119	Lymphom C2OSOLOWSKI_green total
19	6.23	NULL	595	MF RNA binding
20	6.19	NULL	630	Chr Chr X
<i>Underexpressed</i>				
1	-23.61	NULL	135	H.Tiss WIRTH_Mucosa
2	-9.9	NULL	21	CC cornified envelope
3	-9.71	NULL	42	BP keratinization
4	-9.51	NULL	76	BP epidermis development
5	-9.3	NULL	21	CC desmosome
6	-8.83	NULL	15	CC MHC class II protein complex
7	-8.11	NULL	82	CC intermediate filament
8	-7.65	NULL	5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
9	-7.56	NULL	15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
10	-7.46	NULL	53	BP keratinocyte differentiation
11	-7.36	NULL	633	Chr Chr 9
12	-6.85	NULL	44	CC keratin filament
13	-6.79	NULL	13	H.Tiss WIRTH_Tonsil
14	-6.74	NULL	14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
15	-6.73	NULL	186	MF structural molecule activity
16	-6.71	NULL	12	BP hemidesmosome assembly
17	-6.5	NULL	572	Disease GUDJ_psooriasis up
18	-6.2	NULL	15	GSEA C2AIGNER_ZEB1_TARGETS
19	-6.12	NULL	16	GSEA C2CROMER_TUMORIGENESIS_DN
20	-6	NULL	918	Chr Chr 17

p-values



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Local Summary

%DE = 0.64
 # metagenes = 16
 # genes = 259
 # genes in genesets = 258

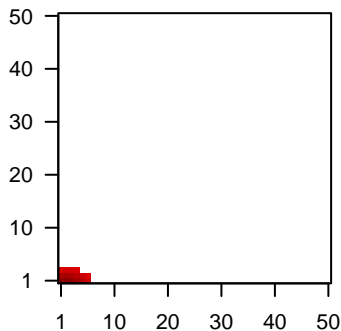
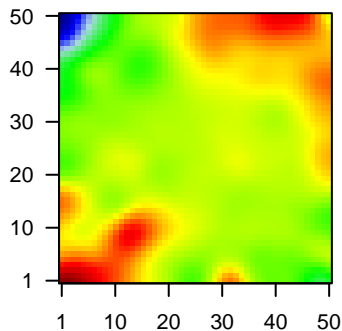
genes with $fdr < 0.1$ = 127 (119 + / 8 -)
 # genes with $fdr < 0.05$ = 121 (115 + / 6 -)
 # genes with $fdr < 0.01$ = 88 (84 + / 4 -)

<r> metagenes = 0.96
 <r> genes = 0.41

<FC> = 0.41
 <shrinkage-t> = 14.26
 <p-value> = 0
 <fdr> = 0.51

Profile

Spot



Local Genelist

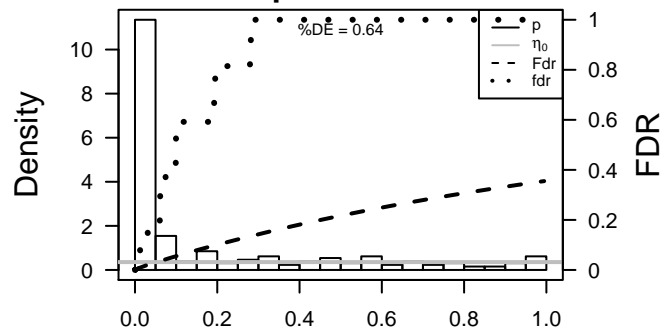
Rank	ID	log(FC)	fdr	p-value	Description
1	1281	1.25	2e-16	2e-15	2 x 1 collagen, type III, alpha 1 [Source:HGNC Symbol;Acc:2201]
2	6372	1.41	2e-16	2e-15	1 x 1 chemokine (C-X-C motif) ligand 6 [Source:HGNC Symbol;Acc:2201]
3	54749	2.16	2e-16	2e-15	5 x 1 ependymin related 1 [Source:HGNC Symbol;Acc:17572]
4	3576	1.75	2e-16	2e-15	1 x 1 interleukin 8 [Source:HGNC Symbol;Acc:6025]
5	3956	1.44	2e-16	2e-15	1 x 1 lectin, galactoside-binding, soluble, 1 [Source:HGNC Symbol;Acc:2201]
6	10962	1.61	2e-16	2e-15	5 x 1 myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog 1) [Source:HGNC Symbol;Acc:2201]
7	4316	1.47	2e-16	2e-15	2 x 1 matrix metalloproteinase 7 (matrilysin, uterine) [Source:HGNC Symbol;Acc:2201]
8	12	3.71	2e-16	2e-15	1 x 1
9	8910	1.78	2e-16	2e-15	6 x 1 sarcoglycan, epsilon [Source:HGNC Symbol;Acc:10808]
10	8406	2.11	2e-16	2e-15	2 x 1 sushi-repeat containing protein, X-linked [Source:HGNC Symbol;Acc:2201]
11	6781	1.64	2e-16	2e-15	1 x 3 stanniocalcin 1 [Source:HGNC Symbol;Acc:11373]
12	7130	1.42	2e-16	2e-15	1 x 1 tumor necrosis factor, alpha-induced protein 6 [Source:HGNC Symbol;Acc:2201]
13	1462	1.46	2e-16	2e-15	3 x 1 versican [Source:HGNC Symbol;Acc:2464]
14	72	1.32	4e-16	5e-13	4 x 1 actin, gamma 2, smooth muscle, enteric [Source:HGNC Symbol;Acc:2201]
15	6447	1.26	8e-15	5e-13	1 x 1 secretogranin V (7B2 protein) [Source:HGNC Symbol;Acc:10808]
16	1290	1.25	1e-14	1e-11	2 x 1 collagen, type V, alpha 2 [Source:HGNC Symbol;Acc:2201]
17	140606	1.2	1e-13	2e-11	5 x 1 Selenoprotein M [Source:UniProtKB/Swiss-Prot;Acc:Q8WWW]
18	3490	1.18	4e-13	1e-10	3 x 1 insulin-like growth factor binding protein 7 [Source:HGNC Symbol;Acc:2201]
19	221395	1.14	2e-12	2e-10	5 x 1 G protein-coupled receptor 116 [Source:HGNC Symbol;Acc:2201]
20	4314	1.12	4e-12	3e-10	1 x 1 matrix metalloproteinase 3 (stromelysin 1, progelatinase) [Source:HGNC Symbol;Acc:2201]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	24.33	NULL	12 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
2	23.83	NULL	8 / 11	MF platelet-derived growth factor binding
3	22.95	NULL	14 / 16	MMML C6SCIEJ_MMML 1
4	22.72	NULL	8 / 12	miRNA target-29c
5	21.33	NULL	67 / 190	CC extracellular matrix
6	20.99	NULL	76 / 250	Lymphoma ENZ_Stromal signature 1
7	19.95	NULL	31 / 69	BP extracellular matrix disassembly
8	18.73	NULL	1 / 2	MMML C6SCIEJ_MMML 46
9	17.81	NULL	27 / 64	BP collagen catabolic process
10	17.41	NULL	61 / 242	BP extracellular matrix organization
11	17.21	NULL	1 / 2	miRNA target-101b
12	16.49	NULL	6 / 11	MMML C6SCIEJ_MMML 31
13	15.4	NULL	19 / 57	MF extracellular matrix structural constituent
14	15.26	NULL	66 / 553	Cancer Lembcke_Colonc Inflammation
15	14.67	NULL	4 / 5	GSEA C2COLLER_MYC_TARGETS_DN
16	14.46	NULL	4 / 8	GSEA C2HAEGERSTRAND_RESPONSE_TO_IMATINIB
17	14.39	NULL	38 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
18	14.39	NULL	38 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
19	14.39	NULL	38 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
20	14.39	NULL	38 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
21	14.39	NULL	2 / 8	GSEA C2OSAWA_TNF_TARGETS
22	14.37	NULL	10 / 40	BP cellular response to amino acid stimulus
23	14.34	NULL	2 / 6	GSEA C2SEIKE_LUNG_CANCER_POOR_SURVIVAL
24	14.29	NULL	1 / 3	GSEA C2REN_MIF_TARGETS_DN
25	14.04	NULL	78 / 683	CC extracellular space
26	13.66	NULL	14 / 37	BP collagen fibril organization
27	13.34	NULL	2 / 3	GSEA C2ONDO_HYPOXIA
28	13.15	NULL	4 / 12	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C2
29	13.15	NULL	3 / 16	GSEA C2MAHADEVAN_RESPONSE_TO_MP470_UP
30	12.91	NULL	3 / 9	GSEA C2ZERBINI_RESPONSE_TO_SULINDAC_UP
31	12.51	NULL	104 / 1182	CC extracellular region
32	12.13	NULL	6 / 15	GSEA C2MASRI_RESISTANCE_TO_TAMOXIFEN_AND_AROMATASE_INHIBITORS
33	11.96	NULL	21 / 119	Lymphoma OSOLOWSKI_green total
34	11.82	NULL	10 / 15	GSEA C2ONDER_CDH1_TARGETS_2_UP
35	11.64	NULL	3 / 7	GSEA C2WANG_ESOPHAGUS_CANCER_PROGRESSION_UP
36	11.62	NULL	36 / 183	CC proteinaceous extracellular matrix
37	11.55	NULL	4 / 14	GSEA C2KAAB_HEART_ATRIUM_VS_VENTRICLE_UP
38	11.47	NULL	2 / 5	GSEA C2DEBOSSCHER_NFKB_TARGETS_REPRESSED_BY_GLUCOCORTICOSTEROIDS
39	11.43	NULL	1 / 6	GSEA C2OKAMOTO_LIVER_CANCER_MULTICENTRIC_OCCURRENCE
40	11.25	NULL	7 / 43	MF chemokine activity

p-values



GW_189

Local Summary

%DE = 0.9
 # metagenes = 17
 # genes = 233
 # genes in genesets = 227

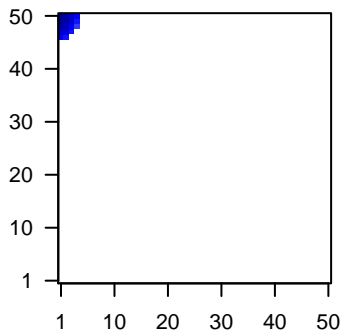
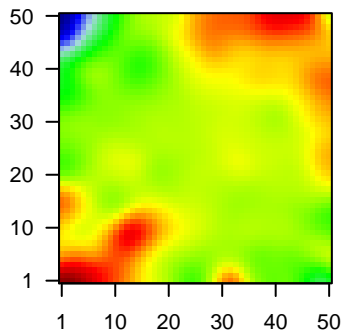
genes with $fdr < 0.1$ = 183 (9 + / 174 -)
 # genes with $fdr < 0.05$ = 175 (9 + / 166 -)
 # genes with $fdr < 0.01$ = 151 (5 + / 146 -)

<r> metagenes = 0.96
 <r> genes = 0.46

<FC> = -0.65
 <shrinkage-t> = -22.78
 <p-value> = 0
 <fdr> = 0.27

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	144568	-1.56	2e-16	2e-16	1 x 50 alpha-2-macroglobulin-like 1 [Source:HGNC Symbol;Acc:23
2	131	-1.85	2e-16	2e-16	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
3	57016	-1.92	2e-16	2e-16	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
4	441282	-1.67	2e-16	2e-16	1 x 49 aldo-keto reductase family 1, member B15 [Source:HGNC S
5	387695	-2.18	2e-16	2e-16	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
6	51806	-1.84	2e-16	2e-16	4 x 50 calmodulin-like 5 [Source:HGNC Symbol;Acc:18180]
7	9547	-1.95	2e-16	2e-16	1 x 46 chemokine (C-X-C motif) ligand 14 [Source:HGNC Symbol;/
8	1828	-1.38	2e-16	2e-16	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
9	9982	-1.72	2e-16	2e-16	1 x 47 fibroblast growth factor binding protein 1 [Source:HGNC Syml
10	53833	-1.36	2e-16	2e-16	1 x 46 interleukin 20 receptor beta [Source:HGNC Symbol;Acc:6004
11	3848	-1.73	2e-16	2e-16	1 x 47 keratin 1 [Source:HGNC Symbol;Acc:6412]
12	192666	-1.37	2e-16	2e-16	1 x 50 keratin 24 [Source:HGNC Symbol;Acc:18527]
13	3851	-1.87	2e-16	2e-16	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]
14	286887	-1.31	2e-16	2e-16	1 x 47 keratin 6C [Source:HGNC Symbol;Acc:20406]
15	84648	-1.66	2e-16	2e-16	1 x 48 late cornified envelope 3D [Source:HGNC Symbol;Acc:16615
16	3963	-1.51	2e-16	2e-16	1 x 47 lectin, galactoside-binding, soluble, 7 [Source:HGNC Symbol
17	653499	-1.41	2e-16	2e-16	1 x 47 lectin, galactoside-binding, soluble, 7 [Source:HGNC Symbol
18	8581	-1.52	2e-16	2e-16	1 x 48 lymphocyte antigen 6 complex, locus D [Source:HGNC Symb
19	5493	-1.49	2e-16	2e-16	1 x 50 periplakin [Source:HGNC Symbol;Acc:9273]
20	6337	-1.78	2e-16	2e-16	3 x 50 sodium channel, non-voltage-gated 1 alpha subunit [Source:

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-58.46	NULL	88 / 135	H.Tiss WIRTH_Mucosa
2	-30.67	NULL	19 / 21	CC cornified envelope
3	-24.74	NULL	19 / 42	BP keratinization
4	-22.47	NULL	95 / 572	Disease GUDDJ_pсориазis up
5	-21.74	NULL	9 / 21	CC desmosome
6	-21.44	NULL	8 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
7	-21.37	NULL	24 / 53	BP keratinocyte differentiation
8	-19.63	NULL	11 / 19	BP peptide cross-linking
9	-17.44	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
10	-14.5	NULL	24 / 76	BP epidermis development
11	-14.34	NULL	4 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
12	-13.85	NULL	13 / 82	CC intermediate filament
13	-13.25	NULL	3 / 10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
14	-12.9	NULL	9 / 44	CC keratin filament
15	-11.33	NULL	4 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
16	-11.3	NULL	7 / 15	GSEA C2HINATA_NFKB_TARGETS_KERATINOCYTE_DN
17	-11.24	NULL	22 / 186	MF structural molecule activity
18	-10.76	NULL	3 / 12	BP cellular aldehyde metabolic process
19	-10.52	NULL	4 / 15	GSEA C2AIGNER_ZEB1_TARGETS
20	-10.5	NULL	2 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP
21	-10.42	NULL	4 / 15	MF retinol dehydrogenase activity
22	-10.34	NULL	4 / 14	GSEA C2KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP
23	-10.14	NULL	2 / 9	GSEA C2WANG_RESPONSE_TO_PACLITAXEL_VIA_MAPK8_UP
24	-9.9	NULL	4 / 13	H.Tiss WIRTH_Tonsil
25	-9.5	NULL	3 / 11	GSEA C2MURAKAMI_UV_RESPONSE_24HR
26	-9.06	NULL	2 / 16	GSEA C2BOQUEST_STEM_CELL_CULTURED_VS_FRESH_DN
27	-9.01	NULL	3 / 16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
28	-8.99	NULL	2 / 16	GSEA C2KOBAYASHI_EGFR_SIGNALING_24HR_UP
29	-8.92	NULL	3 / 14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
30	-8.77	NULL	4 / 39	BP retinoid metabolic process
31	-8.7	NULL	4 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
32	-8.7	NULL	2 / 12	MF retinol binding
33	-8.67	NULL	3 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
34	-8.63	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP
35	-8.53	NULL	1 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_B_DN
36	-8.3	NULL	2 / 13	BP retinoic acid metabolic process
37	-8.25	NULL	8 / 51	MF protein binding, bridging
38	-8.21	NULL	2 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
39	-8.1	NULL	6 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
40	-7.84	NULL	8 / 38	BP epithelial cell differentiation

