

GW_204

Global Summary

%DE = 0.14
 # genes with fdr < 0.2 = 1918 (994 + / 924 -)
 # genes with fdr < 0.1 = 1526 (807 + / 719 -)
 # genes with fdr < 0.05 = 1262 (685 + / 577 -)
 # genes with fdr < 0.01 = 934 (542 + / 392 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.09
 <fdr> = 0.86

Global Genelist

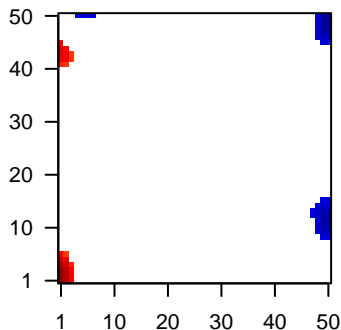
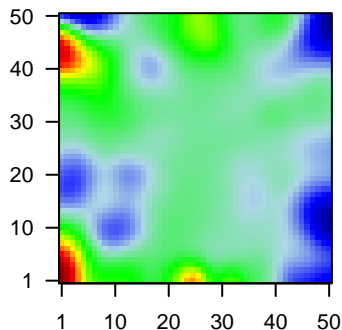
Rank	ID	log(FC)	fdr	p-value	Description
1	79852	-1.35	2e-16	2e-14	3 x 50 epoxide hydrolase 3 [Source:HGNC Symbol;Acc:23760]
2	58	3.07	2e-16	2e-14	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
3	70	3.12	2e-16	2e-14	25 x 1 actin, alpha, cardiac muscle 1 [Source:HGNC Symbol;Acc:14
4	131	-1.97	2e-16	2e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
5	8644	-1.48	2e-16	2e-14	1 x 50 aldo-keto reductase family 1, member C3 [Source:HGNC Syr
6	216	-1.82	2e-16	2e-14	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC
7	218	-2.27	2e-16	2e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
8	401138	1.56	2e-16	2e-14	1 x 5 amelotin [Source:HGNC Symbol;Acc:33188]
9	27063	1.52	2e-16	2e-14	25 x 1 ankyrin repeat domain 1 (cardiac muscle) [Source:HGNC Syr
10	118429	1.48	2e-16	2e-14	2 x 1 anthrax toxin receptor 2 [Source:HGNC Symbol;Acc:21732]
11	306	1.44	2e-16	2e-14	4 x 42 annexin A3 [Source:HGNC Symbol;Acc:541]
12	147495	1.55	2e-16	2e-14	2 x 44 adenomatous polyposis coli down-regulated 1 [Source:HGNC
13	140458	1.37	2e-16	2e-14	25 x 1 ankyrin repeat and SOCS box containing 5 [Source:HGNC S
14	445	-1.87	2e-16	2e-14	50 x 47 argininosuccinate synthase 1 [Source:HGNC Symbol;Acc:75
15	655	-1.69	2e-16	2e-14	50 x 50 bone morphogenetic protein 7 [Source:HGNC Symbol;Acc:1
16	387695	1.57	2e-16	2e-14	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Symt
17	140851	1.45	2e-16	2e-14	1 x 5
18	260436	-1.35	2e-16	2e-14	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
19	135398	2.16	2e-16	2e-14	1 x 40 chromosome 6 open reading frame 141 [Source:HGNC Symt
20	845	1.52	2e-16	2e-14	25 x 1 calsequestrin 2 (cardiac muscle) [Source:HGNC Symbol;Acc:

Global Geneset Analysis

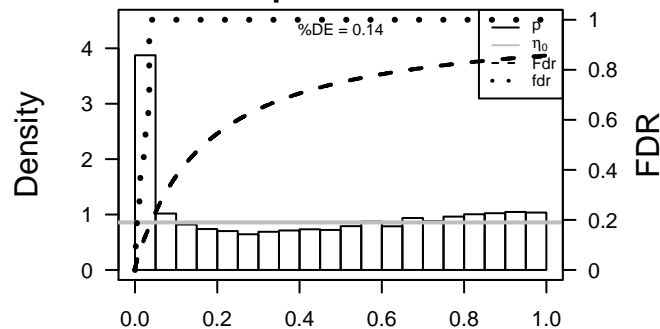
Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	13.81	NULL	36	BP muscle filament sliding
2	13.23	NULL	127	H.Tiss WIRTH_Muscle
3	12.74	NULL	242	BP extracellular matrix organization
4	12.1	NULL	16	GSEA C2MOSELE_IFNA_RESPONSE
5	11.75	NULL	190	CC extracellular matrix
6	11.7	NULL	250	LymphomaENZ_Stromal signature 1
7	11.29	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
8	11.16	NULL	12	BP hemidesmosome assembly
9	10.44	NULL	69	BP extracellular matrix disassembly
10	10.16	NULL	16	H.Tiss WIRTH_Hippocampus
11	10.06	NULL	64	BP collagen catabolic process
12	9.36	NULL	15	GSEA C2CROMER_TUMORIGENESIS_UP
13	9.32	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
14	9.06	NULL	37	CC sarcomere
15	8.78	NULL	16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
16	8.57	NULL	12	CC myosin filament
17	8.54	NULL	14	CC contractile fiber
18	8.35	NULL	572	Disease GUDJ_poriasis up
19	8.35	NULL	16	MMML C6SCIEJ_MMML 1
20	8.31	NULL	13	GSEA C2FRIDMAN_SENESCENCE_UP
<i>Underexpressed</i>				
1	-9.3	NULL	504	Chr Chr 15
2	-7.98	NULL	15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
3	-7.47	NULL	918	Chr Chr 17
4	-7.46	NULL	24	TF Tissue/AQUERIZAS_Trachea
5	-7.34	NULL	8	GSEA C2LIU_CD2_TARGETS_DN
6	-6.24	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
7	-5.71	NULL	9	GSEA C2REACTOME_ETHANOL_OXIDATION
8	-5.59	NULL	1318	CC mitochondrion
9	-5.52	NULL	52	Chr Chr HSCHR6_MHC_QBL
10	-5.49	NULL	4	MMML C6SCIEJ_MMML 23
11	-5.23	NULL	11	MF glutathione binding
12	-5.14	NULL	390	BP metabolic process
13	-5.07	NULL	10	GSEA C2CHASSOT_SKIN_WOUND
14	-5.02	NULL	220	CC mitochondrial matrix
15	-4.89	NULL	16	GSEA C2ROY_WOUND_BLOOD_VESSEL_DN
16	-4.76	NULL	15	CC MHC class II protein complex
17	-4.76	NULL	304	CC mitochondrial inner membrane
18	-4.74	NULL	6	GSEA C2SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN
19	-4.73	NULL	8	GSEA C2ADDA_ERYTHROID_DIFFERENTIATION_BY_HEMIN
20	-4.66	NULL	14	GSEA C2KEGG_GLYCINE_SERINE_AND_THREONINE_METABOLISM

Profile

Regulated Spots



p-values



GW_204

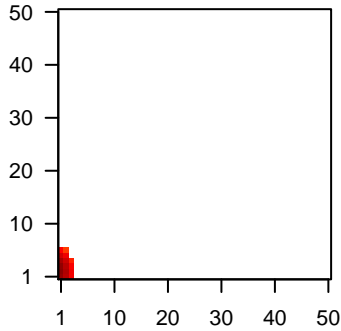
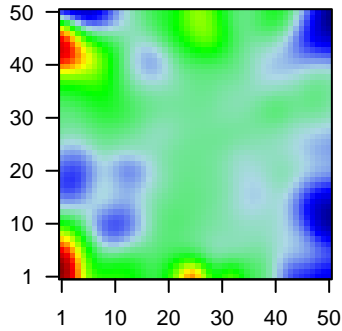
Local Summary

%DE = 0.88
 # metagenes = 16
 # genes = 249
 # genes in genesets = 247
 # genes with $fdr < 0.1$ = 201 (192 + / 9 -)
 # genes with $fdr < 0.05$ = 185 (180 + / 5 -)
 # genes with $fdr < 0.01$ = 156 (153 + / 3 -)

$\langle r \rangle$ metagenes = 0.95
 $\langle r \rangle$ genes = 0.37
 $\langle FC \rangle = 0.69$
 $\langle \text{shrinkage-t} \rangle = 24.04$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.28$

Profile

Spot



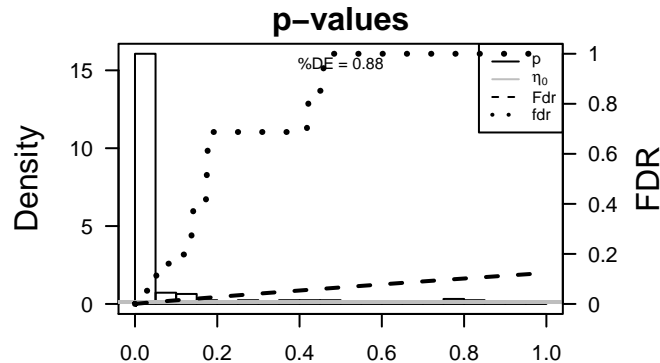
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	401138	1.56	2e-16	2e-16	1 x 5 amelotin [Source:HGNC Symbol;Acc:33188]
2	118429	1.48	2e-16	2e-16	2 x 1 anthrax toxin receptor 2 [Source:HGNC Symbol;Acc:21732]
3	140851	1.45	2e-16	2e-16	1 x 5
4	1278	1.33	2e-16	2e-16	2 x 1 collagen, type I, alpha 2 [Source:HGNC Symbol;Acc:2198]
5	1293	1.49	2e-16	2e-16	2 x 1 collagen, type VI, alpha 3 [Source:HGNC Symbol;Acc:2213]
6	1437	1.65	2e-16	2e-16	1 x 4 colony stimulating factor 2 (granulocyte-macrophage) [Source:HGNC Symbol;Acc:21732]
7	56603	1.71	2e-16	2e-16	1 x 4 cytochrome P450, family 26, subfamily B, polypeptide 1 [Source:HGNC Symbol;Acc:21732]
8	1909	1.42	2e-16	2e-16	3 x 1 endothelin receptor type A [Source:HGNC Symbol;Acc:3179]
9	2191	1.35	2e-16	2e-16	1 x 1 fibroblast activation protein, alpha [Source:HGNC Symbol;Acc:21732]
10	2195	1.47	2e-16	2e-16	1 x 5 FAT atypical cadherin 1 [Source:HGNC Symbol;Acc:3595]
11	3909	1.59	2e-16	2e-16	1 x 5 laminin, alpha 3 [Source:HGNC Symbol;Acc:6483]
12	3918	1.66	2e-16	2e-16	1 x 4 laminin, gamma 2 [Source:HGNC Symbol;Acc:6493]
13	4312	1.78	2e-16	2e-16	1 x 1 matrix metalloproteinase 1 (interstitial collagenase) [Source:HGNC Symbol;Acc:6493]
14	4319	2.38	2e-16	2e-16	1 x 3 matrix metalloproteinase 10 (stromelysin 2) [Source:HGNC Symbol;Acc:6493]
15	4320	1.6	2e-16	2e-16	3 x 1 matrix metalloproteinase 11 (stromelysin 3) [Source:HGNC Symbol;Acc:6493]
16	4314	2.03	2e-16	2e-16	1 x 1 matrix metalloproteinase 3 (stromelysin 1, progelatinase) [Source:HGNC Symbol;Acc:6493]
17	4493	1.45	2e-16	2e-16	1 x 5 metallothionein 1E [Source:HGNC Symbol;Acc:7397]
18	4502	1.47	2e-16	2e-16	1 x 3 metallothionein 2A [Source:HGNC Symbol;Acc:7406]
19	644314	1.56	2e-16	2e-16	1 x 5
20	4907	1.87	2e-16	2e-16	1 x 3 5'-nucleotidase, ecto (CD73) [Source:HGNC Symbol;Acc:802]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	29.76	NULL	46 / 190	CC extracellular matrix
2	28.21	NULL	11 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
3	27.66	NULL	14 / 16	MMML C2CIEJ_MMML_1
4	27.64	NULL	57 / 242	BP extracellular matrix organization
5	26.78	NULL	58 / 250	Lymphocyte-ENZ_Stromal signature 1
6	26.69	NULL	24 / 64	BP collagen catabolic process
7	26.38	NULL	25 / 69	BP extracellular matrix disassembly
8	24.57	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
9	23.14	NULL	7 / 11	MF platelet-derived growth factor binding
10	21.99	NULL	6 / 10	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C4
11	20.48	NULL	9 / 15	GSEA C2ONDER_CDH1_SIGNALING_VIA_CTNNB1
12	20.16	NULL	7 / 14	GSEA C2VERRECCHIA_EARLY_RESPONSE_TO_TGFB1
13	19.37	NULL	31 / 183	CC proteinaceous extracellular matrix
14	19.37	NULL	51 / 403	BP cell adhesion
15	18.74	NULL	5 / 10	GSEA C2KEGG_ECM_RECEPTOR_INTERACTION
16	18.51	NULL	7 / 15	GSEA C2ONDER_CDH1_TARGETS_2_UP
17	18.24	NULL	13 / 37	BP collagen fibril organization
18	18	NULL	6 / 13	GSEA C2FRIDMAN_SENESCENCE_UP
19	18	NULL	7 / 12	miRNA target-29c
20	17.25	NULL	18 / 83	CC basement membrane
21	17.03	NULL	12 / 35	Glo Colman_survival_associated
22	16.95	NULL	16 / 57	MF extracellular matrix structural constituent
23	16.6	NULL	68 / 683	CC extracellular space
24	16.3	NULL	10 / 40	BP cellular response to amino acid stimulus
25	15.75	NULL	90 / 1182	CC extracellular region
26	15.63	NULL	5 / 11	GSEA C2BIOCARTA_PLATELETAPP_PATHWAY
27	15.59	NULL	8 / 16	GSEA C2ROZANOV_MMP14_TARGETS_SUBSET
28	14.97	NULL	5 / 11	Glo Phillips MES up vs Prolif & PN
29	14.96	NULL	5 / 16	GSEA C2BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_DN
30	14.78	NULL	36 / 265	Glo willscher_GBM_Verhaak-CL_expression_B_up
31	14.78	NULL	36 / 265	Glo willscher_GBM_Verhaak-MES_expression_B_up
32	14.78	NULL	36 / 265	Glo willscher_GBM_Verhaak-PNwt_expression_B_down
33	14.78	NULL	36 / 265	Glo willscher_GBM_Verhaak-PNmut_expression_B_down
34	14.76	NULL	7 / 16	MF fibronectin binding
35	14.75	NULL	5 / 16	GSEA C2LIEN_BREAST_CARCINOMA_METAPLASTIC
36	14.72	NULL	4 / 12	GSEA C2Y_AGING_MIDDLE_UP
37	14.68	NULL	5 / 16	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C1
38	14.53	NULL	5 / 16	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_L
39	14.39	NULL	54 / 553	Cancer Lembecke_Colonin Inflammation
40	14.35	NULL	5 / 13	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR



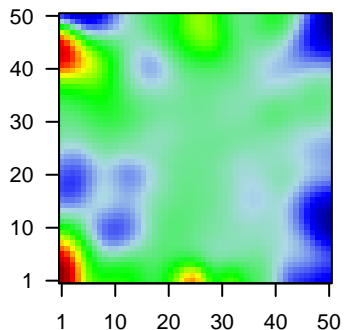
GW_204

Local Summary

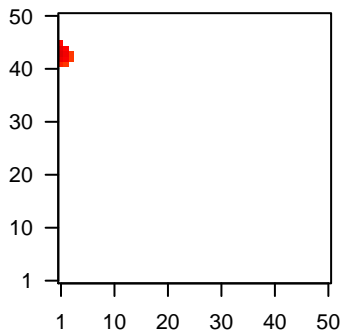
%DE = 0.84
 # metagenes = 11
 # genes = 154
 # genes in genesets = 153
 # genes with $fdr < 0.1$ = 123 (112 + / 11 -)
 # genes with $fdr < 0.05$ = 112 (103 + / 9 -)
 # genes with $fdr < 0.01$ = 98 (92 + / 6 -)

$\langle r \rangle$ metagenes = 0.98
 $\langle r \rangle$ genes = 0.39
 $\langle FC \rangle = 0.58$
 $\langle \text{shrinkage-t} \rangle = 20.27$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.3$

Profile



Spot



Local Genelist

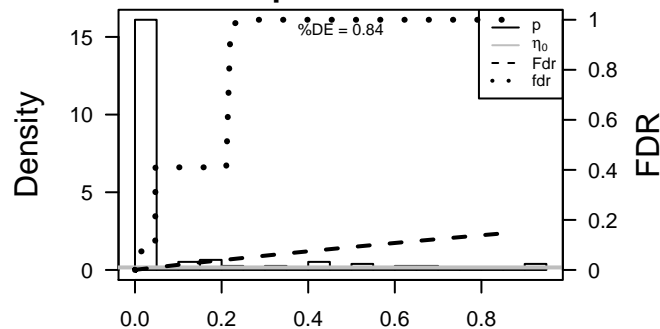
Rank	ID	log(FC)	fdr	p-value	Description
1	147495	1.55	2e-16	5e-16	2 x 44 adenomatosis polyposis coli down-regulated 1 [Source:HGNC]
2	1308	1.91	2e-16	5e-16	1 x 43 collagen, type XVII, alpha 1 [Source:HGNC Symbol;Acc:2194]
3	51200	1.84	2e-16	5e-16	1 x 44 carboxypeptidase A4 [Source:HGNC Symbol;Acc:15740]
4	1515	1.46	2e-16	5e-16	1 x 44 cathepsin V [Source:HGNC Symbol;Acc:2538]
5	2152	1.94	2e-16	5e-16	1 x 43 coagulation factor III (thromboplastin, tissue factor) [Source:H]
6	2352	1.68	2e-16	5e-16	1 x 42 folate receptor 3 (gamma) [Source:HGNC Symbol;Acc:3795]
7	8111	1.53	2e-16	5e-16	1 x 42 G protein-coupled receptor 68 [Source:HGNC Symbol;Acc:4]
8	3552	1.34	2e-16	5e-16	1 x 43 interleukin 1, alpha [Source:HGNC Symbol;Acc:5991]
9	9119	2.29	2e-16	5e-16	1 x 44 keratin 75 [Source:HGNC Symbol;Acc:24431]
10	56901	-1.7	2e-16	5e-16	1 x 44 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-li
11	8601	1.5	2e-16	5e-16	1 x 44 regulator of G-protein signaling 20 [Source:HGNC Symbol;A]
12	144406	1.3	2e-15	3e-14	1 x 42 WD repeat domain 66 [Source:HGNC Symbol;Acc:28506]
13	3861	1.19	2e-15	3e-14	1 x 45 keratin 14 [Source:HGNC Symbol;Acc:6416]
14	7039	1.29	3e-15	1e-13	1 x 44 transforming growth factor, alpha [Source:HGNC Symbol;Acc]
15	222584	1.27	8e-15	1e-13	1 x 44 family with sequence similarity 83, member B [Source:HGNC]
16	2697	1.26	1e-14	8e-13	1 x 44 gap junction protein, alpha 1, 43kDa [Source:HGNC Symbol;]
17	244	1.23	5e-14	8e-13	1 x 43 annexin A8-like 2 [Source:HGNC Symbol;Acc:23335]
18	5947	1.22	8e-14	8e-12	1 x 43 retinol binding protein 1, cellular [Source:HGNC Symbol;Acc:1]
19	5744	1.17	7e-13	8e-12	1 x 43 parathyroid hormone-like hormone [Source:HGNC Symbol;A]
20	6273	1.17	8e-13	8e-12	1 x 44 S100 calcium binding protein A2 [Source:HGNC Symbol;Acc:

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	20.95	NULL	4 / 12	BP hemidesmosome assembly
2	13.21	NULL	2 / 6	GSEA C2WALLACE_PROSTATE_CANCER_DN
3	11.51	NULL	1 / 6	GSEA C2MAINA_HYPOXIA_VHL_TARGETS_UP
4	10.94	NULL	3 / 15	GSEA C2KOBAYASHI_EGFR_SIGNALING_6HR_DN
5	10.82	NULL	3 / 16	GSEA C2HARRIS_HYPOXIA
6	10.75	NULL	2 / 11	BP positive regulation of positive chemotaxis
7	10.46	NULL	2 / 14	GSEA C2MAINA_VHL_TARGETS_DN
8	10.33	NULL	34 / 572	Disease GUDJ_pсориаз up
9	10.2	NULL	1 / 4	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_DN
10	10.05	NULL	2 / 2	miRNA target-199a*
11	9.84	NULL	10 / 82	CC intermediate filament
12	9.39	NULL	4 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
13	9.33	NULL	7 / 76	BP epidermis development
14	9.02	NULL	2 / 13	GSEA C2HASINA_NOL7_TARGETS_UP
15	8.61	NULL	4 / 44	CC keratin filament
16	8.6	NULL	2 / 13	BP response to copper ion
17	8.52	NULL	2 / 15	GSEA C2AMIT_EGF_RESPONSE_240_MCF10A
18	8.51	NULL	3 / 16	GSEA C2ELVIDGE_HIF1A_AND_HIF2A_TARGETS_DN
19	8.46	NULL	1 / 4	GSEA C2NIELSEN_LEIOMYOSARCOMA_DN
20	8.46	NULL	1 / 10	GSEA C2REACTOME_FORMATION_OF_FIBRIN_CLOT_CLOTTING_CASO
21	8.37	NULL	6 / 70	BP cell junction assembly
22	8.28	NULL	2 / 15	GSEA C2NGUYEN_NOTCH1_TARGETS_UP
23	8.27	NULL	3 / 16	GSEA C2LEONARD_HYPOXIA
24	8.26	NULL	2 / 16	GSEA C2BECKER_TAMOXIFEN_RESISTANCE_DN
25	8.19	NULL	3 / 12	BP keratinocyte proliferation
26	8.16	NULL	1 / 4	MMML C2BIOCIEJ_MMML_47
27	7.99	NULL	1 / 11	GSEA C2BIOCARTA_EXTRINSIC_PATHWAY
28	7.99	NULL	2 / 15	GSEA C2SENESE_HDAC1_AND_HDAC2_TARGETS_DN
29	7.89	NULL	1 / 6	GSEA C2SEIKE_LUNG_CANCER_POOR_SURVIVAL
30	7.78	NULL	8 / 112	Glio Christensen_hypermethylated_in_grade2_oligoastrocytoma
31	7.76	NULL	7 / 85	Glio laffaire_hypermeth_LGG_vs_control
32	7.6	NULL	2 / 16	GSEA C2SESTO_RESPONSE_TO_UV_C2
33	7.58	NULL	1 / 6	GSEA C2AGARWAL_AKT_PATHWAY_TARGETS
34	7.47	NULL	9 / 132	Glio Christensen_hypermethylated_in_grade3_oligoastrocytoma
35	7.4	NULL	1 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP
36	7.24	NULL	1 / 13	GSEA C2FRIDMAN_SENESCENCE_UP
37	7.24	NULL	1 / 13	GSEA C2BAELDE_DIABETIC_NEPHROPATHY_DN
38	7.19	NULL	1 / 12	GSEA C2LINDGREN_BLADDER_CANCER_CLUSTER_1_UP
39	7.18	NULL	1 / 6	GSEA C2OHM_EMBRYONIC_CARCINOMA_DN
40	7.16	NULL	1 / 5	GSEA C2BUSA_SAM68_TARGETS_UP

p-values



GW_204

Local Summary

%DE = 0.84
 # metagenes = 24
 # genes = 273
 # genes in genesets = 269

genes with $fdr < 0.1$ = 181 (10 + / 171 -)
 # genes with $fdr < 0.05$ = 151 (7 + / 144 -)
 # genes with $fdr < 0.01$ = 117 (6 + / 111 -)

<r> metagenes = 0.91

<r> genes = 0.26

<FC> = -0.39

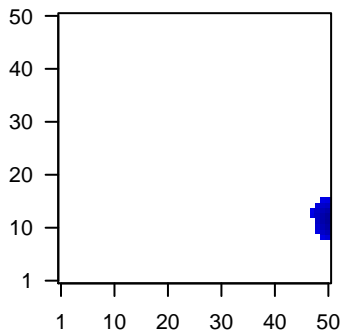
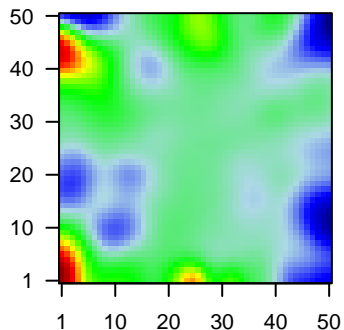
<shrinkage-t> = -13.73

<p-value> = 0

<fdr> = 0.5

Profile

Spot



Local Genelist

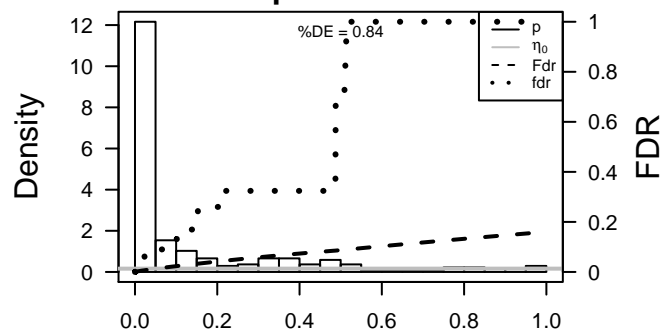
Rank	ID	log(FC)	fdr	p-value	Description
1	3169	-1.5	2e-16	2e-15	50 x 12 forkhead box A1 [Source:HGNC Symbol;Acc:5021]
2	2568	-1.34	2e-16	2e-15	50 x 13 gamma-aminobutyric acid (GABA) A receptor, pi [Source:HGNC Symbol;Acc:5021]
3	10232	-1.52	2e-16	2e-15	50 x 11 mesothelin [Source:HGNC Symbol;Acc:7371]
4	6920	-1.53	2e-16	2e-15	50 x 13 transcription elongation factor A (SII), 3 [Source:HGNC Symbol;Acc:5021]
5	4255	-1.24	3e-14	1e-10	48 x 15 O-6-methylguanine-DNA methyltransferase [Source:HGNC Symbol;Acc:5021]
6	9249	-1.12	6e-12	1e-10	50 x 13 dehydrogenase/reductase (SDR family) member 3 [Source:HGNC Symbol;Acc:5021]
7	2878	-1.12	7e-12	5e-10	50 x 9 glutathione peroxidase 3 (plasma) [Source:HGNC Symbol;Acc:5021]
8	92747	-1.08	3e-11	5e-10	50 x 10 BPI fold containing family B, member 1 [Source:HGNC Symbol;Acc:5021]
9	84952	-1.08	3e-11	7e-10	50 x 10 cingulin-like 1 [Source:HGNC Symbol;Acc:25931]
10	29116	-1.07	6e-11	7e-10	50 x 14 myosin regulatory light chain interacting protein [Source:HGNC Symbol;Acc:5021]
11	79085	-1.07	7e-11	7e-10	50 x 13 solute carrier family 25 (mitochondrial carrier; phosphate carrier) member 1 [Source:HGNC Symbol;Acc:5021]
12	6192	-1.06	8e-11	7e-10	50 x 9 ribosomal protein S4, Y-linked 1 [Source:HGNC Symbol;Acc:5021]
13	260293	-1.06	1e-10	4e-09	50 x 14 cytochrome P450, family 4, subfamily X, polypeptide 1 [Source:HGNC Symbol;Acc:5021]
14	2762	-1.03	2e-10	4e-09	50 x 12 GDP-mannose 4,6-dehydratase [Source:HGNC Symbol;Acc:5021]
15	55268	-1.03	3e-10	2e-08	50 x 14 enoyl CoA hydratase domain containing 2 [Source:HGNC Symbol;Acc:5021]
16	135112	-1.01	6e-10	9e-08	50 x 13 nuclear receptor coactivator 7 [Source:HGNC Symbol;Acc:21]
17	8857	0.97	3e-09	1e-07	50 x 13 Fc fragment of IgG binding protein [Source:HGNC Symbol;Acc:5021]
18	28958	-0.95	6e-09	1e-07	49 x 13 cytochrome c oxidase assembly factor 3 [Source:HGNC Symbol;Acc:5021]
19	51316	-0.94	7e-09	2e-07	50 x 13 placenta-specific 8 [Source:HGNC Symbol;Acc:19254]
20	2139	-0.93	1e-08	2e-07	50 x 13 eyes absent homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:5021]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-19.55	NULL	11 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
2	-13.86	NULL	3 / 7	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_DN
3	-13.5	NULL	3 / 16	GSEA C2DOANE_BREAST_CANCER_ESR1_DN
4	-12.11	NULL	3 / 14	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_DN
5	-11.72	NULL	5 / 16	GSEA C2TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_LOBULAR_DN
6	-11.29	NULL	3 / 13	GSEA C2WONG_ENDOMETRIUM_CANCER_UP
7	-10.96	NULL	2 / 5	GSEA C2SMID_BREAST_CANCER_ERBB2_DN
8	-10.84	NULL	4 / 16	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_DN
9	-10.59	NULL	3 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_A
10	-9.95	NULL	3 / 16	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_DN
11	-9.45	NULL	6 / 15	GSEA C2POOLA_INVASIVE_BREAST_CANCER_DN
12	-8.89	NULL	2 / 11	CC photoreceptor outer segment membrane
13	-8.59	NULL	1 / 7	GSEA C2NEBEN_AML_WITH_FLT3_OR_NRAS_UP
14	-8.46	NULL	4 / 15	GSEA C2DOANE_BREAST_CANCER_CLASSES_UP
15	-8.36	NULL	2 / 14	BP negative regulation of epithelial to mesenchymal transition
16	-8.09	NULL	2 / 15	GSEA C2LOPES_METHYLATED_IN_COLON_CANCER_UP
17	-8.06	NULL	1 / 4	GSEA C2NICK_RESPONSE_TO_PROC_TREATMENT_UP
18	-8.04	NULL	1 / 3	miRNA 3408C-210
19	-7.99	NULL	2 / 16	GSEA C2ROY_WOUND_BLOOD_VESSEL_DN
20	-7.93	NULL	3 / 15	GSEA C2SABATES_COLORECTAL_ADENOMA_UP
21	-7.85	NULL	3 / 16	GSEA C2YANG_BREAST_CANCER_ESR1_BULK_UP
22	-7.76	NULL	2 / 14	GSEA C2PEREZ_TP53_AND_TP63_TARGETS
23	-7.76	NULL	2 / 16	GSEA C2YANG_BREAST_CANCER_ESR1_DN
24	-7.73	NULL	4 / 15	GSEA C2TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_DUCTAL_DN
25	-7.7	NULL	3 / 13	GSEA C2HUANG_DASATINIB_RESISTANCE_DN
26	-7.38	NULL	3 / 14	MF selenium binding
27	-7.37	NULL	3 / 12	GSEA C2PROVENZANI_METASTASIS_UP
28	-7.25	NULL	4 / 14	GSEA C2SMID_BREAST_CANCER_LUMINAL_A_UP
29	-7.21	NULL	2 / 7	GSEA C2LOPEZ_MESOTELIOMA_SURVIVAL_TIME_DN
30	-7.17	NULL	3 / 10	GSEA C2YAMASHITA_LIVER_CANCER_WITH_EPCAM_DN
31	-7.12	NULL	2 / 15	GSEA C2ZHAN_MULTIPLE_MYELOMA_CD1_DN
32	-7.09	NULL	3 / 9	GSEA C2REACTOME_ETHANOL_OXIDATION
33	-7.05	NULL	1 / 8	GSEA C2HEIDENBLAD_AMPLICON_12P11_12_UP
34	-7	NULL	1 / 10	BP prostate gland epithelium morphogenesis
35	-6.94	NULL	4 / 21	BP drug metabolic process
36	-6.94	NULL	2 / 12	CC apical junction complex
37	-6.93	NULL	2 / 13	GSEA C2CERVERA_SDHB_TARGETS_2
38	-6.87	NULL	3 / 11	BP DNA integration
39	-6.78	NULL	2 / 12	BP nitric oxide biosynthetic process
40	-6.69	NULL	2 / 13	GSEA C2NING_CHRONIC_OBSTRUCTIVE_PULMONARY_DISEASE_DN

p-values



GW_204

Local Summary

%DE = 0.8
 # metagenes = 17
 # genes = 224
 # genes in genesets = 223

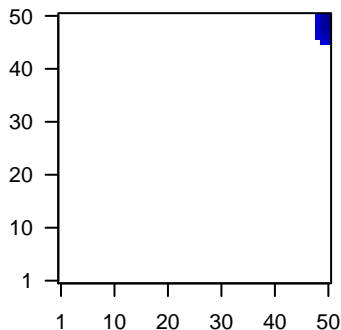
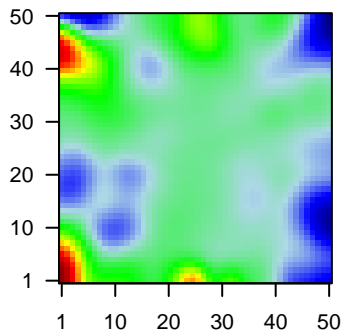
genes with $fdr < 0.1 = 140$ (14 + / 126 -)
 # genes with $fdr < 0.05 = 115$ (9 + / 106 -)
 # genes with $fdr < 0.01 = 80$ (5 + / 75 -)

<r> metagenes = 0.96
 <r> genes = 0.26

<FC> = -0.42
 <shrinkage-t> = -14.68
 <p-value> = 0
 <fdr> = 0.5

Profile

Spot



Local Genelist

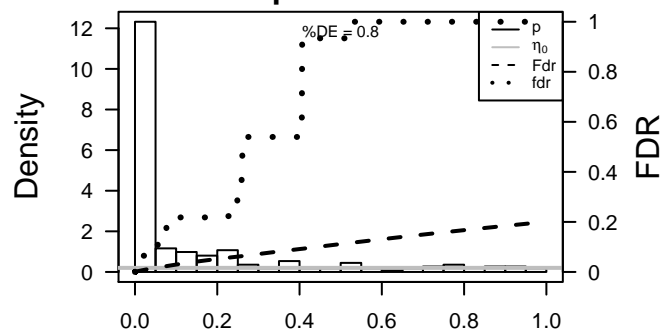
Rank	ID	log(FC)	fdr	p-value	Description
1	216	-1.82	2e-16	9e-16	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC
2	445	-1.87	2e-16	9e-16	50 x 47 argininosuccinate synthase 1 [Source:HGNC Symbol;Acc:75f
3	655	-1.69	2e-16	9e-16	50 x 50 bone morphogenetic protein 7 [Source:HGNC Symbol;Acc:1f
4	875	-1.45	2e-16	9e-16	49 x 47 cystathionine-beta-synthase [Source:HGNC Symbol;Acc:15f
5	4072	-1.62	2e-16	9e-16	50 x 50 epithelial cell adhesion molecule [Source:HGNC Symbol;Acc:
6	3304	-1.35	2e-16	9e-16	49 x 49 heat shock 70kDa protein 1A [Source:HGNC Symbol;Acc:52f
7	3866	-2.56	2e-16	9e-16	50 x 50 keratin 15 [Source:HGNC Symbol;Acc:6421]
8	3880	-3.66	2e-16	9e-16	50 x 49 keratin 19 [Source:HGNC Symbol;Acc:6436]
9	3856	-1.93	2e-16	9e-16	50 x 48 keratin 8 pseudogene 3 [Source:HGNC Symbol;Acc:31056]
10	26227	-2.09	2e-16	9e-16	50 x 46 phosphoglycerate dehydrogenase [Source:HGNC Symbol;Ac
11	256764	-2.64	2e-16	9e-16	50 x 50 WD repeat domain 72 [Source:HGNC Symbol;Acc:26790]
12	139728	-1.31	9e-16	1e-13	49 x 49 pregnancy up-regulated nonubiquitous CaM kinase [Source:l
13	200634	-1.29	3e-15	3e-12	50 x 49 keratinocyte associated protein 3 [Source:HGNC Symbol;Acc
14	84707	-1.22	7e-14	9e-12	50 x 48 brain expressed X-linked 2 [Source:HGNC Symbol;Acc:3093
15	2944	-1.19	4e-13	9e-12	50 x 50 glutathione S-transferase mu 1 [Source:HGNC Symbol;Acc:4
16	4922	-1.18	5e-13	2e-11	50 x 50 neurotensin [Source:HGNC Symbol;Acc:8038]
17	400916	-1.17	1e-12	2e-11	50 x 47 coiled-coil-helix-coiled-coil-helix domain containing 10 [So
18	28978	1.15	2e-12	2e-11	49 x 50 transmembrane protein 14A [Source:HGNC Symbol;Acc:210f
19	26047	-1.15	2e-12	4e-10	50 x 50 contactin associated protein-like 2 [Source:HGNC Symbol;Ac
20	4953	1.11	1e-11	2e-09	50 x 50 ornithine decarboxylase 1 [Source:HGNC Symbol;Acc:8109]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-34.14	NULL	3 / 8	GSEA C2JUI_CDX2_TARGETS_DN
2	-15.15	NULL	1 / 2	GSEA C2KUROKAWA_LIVER_CANCER_EARLY_RECURRENCE_UP
3	-14.58	NULL	1 / 11	GSEA C2WHITESIDE_CISPLATIN_RESISTANCE_DN
4	-14	NULL	2 / 12	GSEA C2MOROSSETTI_FACIOSCAPULOHUMERAL_MUSCULAR_DISTRO
5	-13.27	NULL	1 / 13	GSEA C2CHEN_LUNG_CANCER_SURVIVAL
6	-12.81	NULL	3 / 12	GSEA C2HELLER_SILENCED_BY_METHYLATION_DN
7	-12.73	NULL	1 / 14	GSEA C2JIANG_SILENCED_BY_METHYLATION_UP
8	-12.57	NULL	2 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_DN
9	-12.3	NULL	2 / 14	GSEA C2KEGG_GLYCINE_SERINE_AND_THREONINE_METABOLISM
10	-12.24	NULL	1 / 15	GSEA C2E_SKI_TARGETS_UP
11	-12.24	NULL	1 / 15	GSEA C2EE_LIVER_CANCER_HEPATOBLAST
12	-11.81	NULL	3 / 11	MF glutathione binding
13	-11.81	NULL	3 / 11	GSEA C2KEGG_DRUG_METABOLISM_CYTOCHROME_P450
14	-11.81	NULL	1 / 16	CC dystrophin-associated glycoprotein complex
15	-11.81	NULL	1 / 16	GSEA C2DORN_ADENOVIRUS_INFECTION_12HR_UP
16	-11.78	NULL	4 / 13	GSEA C2KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME
17	-11.59	NULL	1 / 5	GSEA C2NIELSEN_SCHWANNOMA_DN
18	-11.38	NULL	4 / 19	BP cellular amino acid biosynthetic process
19	-11.05	NULL	1 / 18	CC costamere
20	-10.73	NULL	4 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
21	-10.61	NULL	2 / 7	GSEA C2MCCOLLUM_GELDANAMYCIN_RESISTANCE_DN
22	-10.28	NULL	2 / 7	GSEA C2FREDERICK_PRKCI_TARGETS
23	-10.25	NULL	5 / 20	MF glutathione transferase activity
24	-10.15	NULL	1 / 6	GSEA C2KAPOSI_LIVER_CANCER_POOR_SURVIVAL_DN
25	-10.13	NULL	1 / 21	BP sarcomere organization
26	-10.07	NULL	3 / 12	GSEA C2BROCKE_APOPTOSIS_REVERSED_BY_IL6
27	-9.96	NULL	2 / 10	GSEA C2HANN_RESISTANCE_TO_BCL2_INHIBITOR_DN
28	-9.54	NULL	2 / 10	GSEA C2CERVERA_SDBH_TARGETS_1_DN
29	-9.26	NULL	3 / 16	GSEA C2KAN_RESPONSE_TO_ARSENIC_TRIOXIDE
30	-9.24	NULL	2 / 15	BP spinal cord development
31	-8.83	NULL	4 / 82	MF structural constituent of cytoskeleton
32	-8.74	NULL	1 / 15	GSEA C2SABATES_COLORECTAL_ADENOMA_UP
33	-8.66	NULL	2 / 14	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED
34	-8.59	NULL	1 / 5	GSEA C2DASU_IL6_SIGNALING_UP
35	-8.46	NULL	1 / 15	H.Tiss WIRTH_Cerebellum
36	-8.43	NULL	3 / 16	GSEA C2BOYVAULT_LIVER_CANCER_SUBCLASS_G1_DN
37	-8.38	NULL	2 / 16	GSEA C2PACHER_TARGETS_OF_IGF1_AND_IGF2_UP
38	-8.38	NULL	2 / 16	GSEA C2ZHAN_MULTIPLE_MYELOMA_CD1_VS_CD2_UP
39	-8.15	NULL	1 / 16	GSEA C2ROY_WOUND_BLOOD_VESSEL_DN
40	-8.15	NULL	2 / 8	GSEA C2SATO_SILENCED_EPIGENETICALLY_IN_PANCREATIC_CANCE

p-values



GW_204

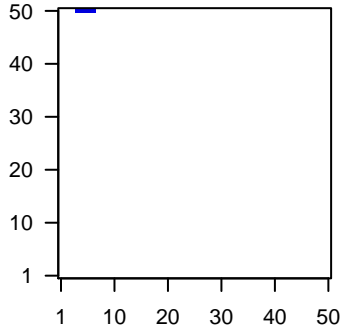
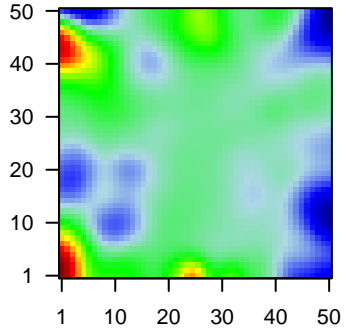
Local Summary

%DE = 0.93
 # metagenes = 4
 # genes = 117
 # genes in genesets = 116
 # genes with fdr < 0.1 = 93 (4 + / 89 -)
 # genes with fdr < 0.05 = 87 (3 + / 84 -)
 # genes with fdr < 0.01 = 71 (2 + / 69 -)

<r> metagenes = 0.99
 <r> genes = 0.4
 <FC> = -0.51
 <shrinkage-t> = -17.8
 <p-value> = 0
 <fdr> = 0.38

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	1366	-1.79	2e-16	4e-16	6 x 50 claudin 7 [Source:HGNC Symbol;Acc:2049]
2	9245	-1.61	2e-16	4e-16	4 x 50 glucosaminyl (N-acetyl) transferase 3, mucin type [Source:HGNC Symbol;Acc:2049]
3	5603	-1.35	2e-16	4e-16	7 x 50 mitogen-activated protein kinase 13 [Source:HGNC Symbol;Acc:2049]
4	4582	-1.39	2e-16	4e-16	7 x 50 mucin 1, cell surface associated [Source:HGNC Symbol;Acc:2049]
5	5226	-1.39	2e-16	4e-16	6 x 50 phosphogluconate dehydrogenase [Source:HGNC Symbol;Acc:2049]
6	548596	-1.27	6e-15	2e-13	4 x 50 creatine kinase, mitochondrial 1B [Source:HGNC Symbol;Acc:2049]
7	1999	-1.24	3e-14	1e-12	5 x 50 E74-like factor 3 (ets domain transcription factor, epithelial-specific) [Source:HGNC Symbol;Acc:2049]
8	154043	-1.2	2e-13	2e-12	6 x 50 CNKSR family member 3 [Source:HGNC Symbol;Acc:23034]
9	10874	-1.18	5e-13	7e-10	4 x 50 neuromedin U [Source:HGNC Symbol;Acc:7859]
10	1159	-1.06	9e-11	1e-09	5 x 50 creatine kinase, mitochondrial 1B [Source:HGNC Symbol;Acc:2049]
11	58489	-1.04	2e-10	6e-09	7 x 50 abhydrolase domain containing 17C [Source:HGNC Symbol;Acc:2049]
12	200958	-1	9e-10	7e-09	6 x 50 mucin 20, cell surface associated [Source:HGNC Symbol;Acc:2049]
13	58528	-0.97	2e-09	7e-09	6 x 50 Ras-related GTP binding D [Source:HGNC Symbol;Acc:1996]
14	79007	-0.97	3e-09	1e-08	6 x 50 dysbindin (dystrobrein binding protein 1) domain containing [Source:HGNC Symbol;Acc:2049]
15	284340	-0.96	4e-09	3e-08	6 x 50 chemokine (C-X-C motif) ligand 17 [Source:HGNC Symbol;Acc:2049]
16	7263	-0.94	7e-09	4e-08	5 x 50 thiosulfate sulfurtransferase (rhodanese) [Source:HGNC Symbol;Acc:2049]
17	23593	-0.93	1e-08	4e-08	6 x 50 heme binding protein 2 [Source:HGNC Symbol;Acc:15716]
18	8681	-0.92	2e-08	4e-08	5 x 50 phospholipase A2, group IVB (cytosolic) [Source:HGNC Symbol;Acc:2049]
19	80223	-0.91	2e-08	1e-07	6 x 50 RAB11 family interacting protein 1 (class I) [Source:HGNC Symbol;Acc:2049]
20	51195	-0.89	5e-08	1e-07	5 x 50 Rap guanine nucleotide exchange factor (GEF)-like 1 [Source:HGNC Symbol;Acc:2049]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-20.34	NULL	3 / 15	GSEA C2L_IN_SILENCED_BY_TUMOR_MICROENVIRONMENT
2	-18.17	NULL	3 / 13	H.Tiss WIRTH_Tonsil
3	-14.16	NULL	1 / 6	GSEA C2ZEMBUTSU_SENSITIVITY_TO_FLUOROURACIL
4	-14.08	NULL	3 / 10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
5	-13.25	NULL	1 / 8	GSEA C2SATO_SILENCED_EPIGENETICALLY_IN_PANCREATIC_CANCER
6	-12.18	NULL	1 / 6	GSEA C2GALLUZZI_PREVENT_MITOCHONDRIAL_PERMEABILIZATION
7	-11.61	NULL	1 / 10	GSEA C2L_UI_TARGETS_OF_PAX8_PPARG_FUSION
8	-11.57	NULL	2 / 13	GSEA C2KEGG_O_GLYCAN_BIOSYNTHESIS
9	-11.2	NULL	3 / 45	BP O-glycan processing
10	-10.97	NULL	2 / 16	GSEA C2ELVIDGE_HYPOXIA_BY_DMOG_UP
11	-10.59	NULL	2 / 15	GSEA C2AIGNER_ZEB1_TARGETS
12	-10.38	NULL	2 / 16	GSEA C2FRASOR_TAMOXIFEN_RESPONSE_UP
13	-10.33	NULL	4 / 38	BP epithelial cell differentiation
14	-10.23	NULL	1 / 8	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_24
15	-9.51	NULL	4 / 28	BP negative regulation of ERK1 and ERK2 cascade
16	-9.49	NULL	2 / 12	GSEA C2RUTELLA_RESPONSE_TO_HGF_DN
17	-9.16	NULL	1 / 15	GSEA C2L_UI_THYROID_CANCER_PAX8_PPARG_DN
18	-9.16	NULL	1 / 15	GSEA C2L_UI_THYROID_CANCER_CLUSTER_3
19	-9.16	NULL	1 / 15	GSEA C2FONTAINE_FOLLICULAR_THYROID_ADENOMA_DN
20	-9.16	NULL	1 / 15	GSEA C2FONTAINE_THYROID_TUMOR_UNCERTAIN_MALIGNANCY_UP
21	-9.16	NULL	1 / 15	GSEA C2REACTOME_TIGHT_JUNCTION_INTERACTIONS
22	-9.16	NULL	1 / 15	GSEA C2REACTOME_CELL_JUNCTION_ORGANIZATION
23	-9.11	NULL	1 / 8	GSEA C2DORN_ADENOVIRUS_INFECTION_24HR_UP
24	-9.02	NULL	3 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
25	-8.95	NULL	1 / 10	BP negative regulation of transcription by competitive promoter binding
26	-8.82	NULL	1 / 16	GSEA C2AJATE_RESPONSE_TO TRABECTEDIN_UP
27	-8.82	NULL	1 / 16	GSEA C2REACTOME_CELL_CELL_ADHESION_SYSTEMS
28	-8.53	NULL	2 / 9	GSEA C2REACTOME_CYTOCHROME_P450_ARRANGED_BY_SUBSTRATE
29	-8.53	NULL	2 / 9	GSEA C2REACTOME_PHASE_1_FUNCTIONALIZATION_OF_COMPOUND
30	-8.49	NULL	1 / 9	GSEA C2DORN_ADENOVIRUS_INFECTION_32HR_UP
31	-8.3	NULL	2 / 12	MF lysophospholipase activity
32	-8.27	NULL	3 / 24	TF Tissue/AQUERIZAS_Trachea
33	-8.21	NULL	1 / 15	MF acetylglucosaminyltransferase activity
34	-8.14	NULL	2 / 12	Pathw AcBENTINK_e2f3.1
35	-8.07	NULL	3 / 16	miRNA target set miR-149-3p
36	-8.05	NULL	1 / 12	GSEA C2XU_RESPONSE_TO_TRETINOIN_UP
37	-8.04	NULL	1 / 12	BP negative regulation of intrinsic apoptotic signaling pathway in response to hypoxia
38	-8.04	NULL	1 / 12	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_17
39	-7.98	NULL	1 / 19	BP calcium-independent cell-cell adhesion
40	-7.97	NULL	1 / 10	GSEA C2DORN_ADENOVIRUS_INFECTION_12HR_DN

p-values

