

GW_191

Global Summary

%DE = 0.15
 # genes with $fdr < 0.2$ = 1853 (1053 + / 800 -)
 # genes with $fdr < 0.1$ = 1512 (883 + / 629 -)
 # genes with $fdr < 0.05$ = 1200 (720 + / 480 -)
 # genes with $fdr < 0.01$ = 788 (501 + / 287 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.1
 <fdr> = 0.85

Global Genelist

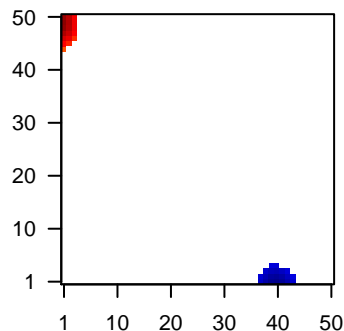
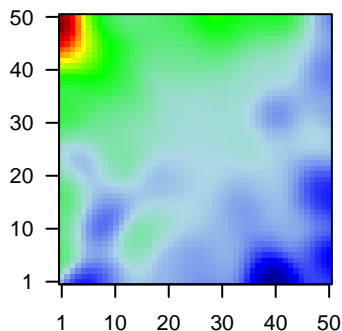
Rank	ID	log(FC)	fdr	p-value	Description
1	59	-1.39	2e-16	4e-14	3 x 1 actin, alpha 2, smooth muscle, aorta [Source:HGNC Symbol;]
2	242	1.71	2e-16	4e-14	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syrr
3	164284	1.7	2e-16	4e-14	1 x 3 adenomatosis polyposis coli down-regulated 1-like [Source:t
4	151516	1.89	2e-16	4e-14	1 x 46 aspartic peptidase, retroviral-like 1 [Source:HGNC Symbol;A
5	445	1.64	2e-16	4e-14	50 x 47 argininosuccinate synthase 1 [Source:HGNC Symbol;Acc:75f
6	10974	1.75	2e-16	4e-14	5 x 50 adipogenesis regulatory factor [Source:HGNC Symbol;Acc:2f
7	387695	1.84	2e-16	4e-14	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Symt
8	29113	1.88	2e-16	4e-14	2 x 47 chromosome 6 open reading frame 15 [Source:HGNC Symbc
9	760	2.17	2e-16	4e-14	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
10	84290	1.4	2e-16	4e-14	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
11	148170	1.46	2e-16	4e-14	50 x 9 CDC42 effector protein (Rho GTPase binding) 5 [Source:HGf
12	1041	2.57	2e-16	4e-14	1 x 46 corneodesmosin [Source:HGNC Symbol;Acc:1802]
13	84518	1.92	2e-16	4e-14	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
14	441520	1.42	2e-16	4e-14	14 x 11 cancer/testis antigen family 45, member A2 [Source:HGNC S
15	126410	2.53	2e-16	4e-14	1 x 49 cytochrome P450, family 4, subfamily F, polypeptide 22 [Sour
16	414325	1.44	2e-16	4e-14	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
17	1673	1.52	2e-16	4e-14	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
18	93099	1.94	2e-16	4e-14	1 x 47 dermokine [Source:HGNC Symbol;Acc:25063]
19	1809	-1.55	2e-16	4e-14	6 x 1 dihydropyrimidinase-like 3 [Source:HGNC Symbol;Acc:3015]
20	1823	2.52	2e-16	4e-14	1 x 45 desmocollin 1 [Source:HGNC Symbol;Acc:3035]

Global Geneset Analysis

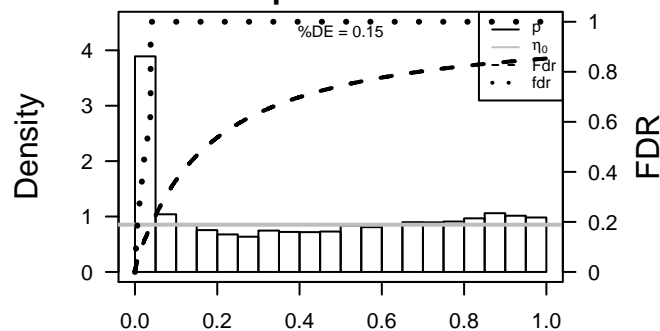
Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	19.43	NULL	135	H.Tiss WIRTH_Mucosa
2	18.3	NULL	572	Disease GUDJ_psooriasis up
3	17.47	NULL	42	BP keratinization
4	15.82	NULL	21	CC cornified envelope
5	12.11	NULL	53	BP keratinocyte differentiation
6	11.06	NULL	76	BP epidermis development
7	8.33	NULL	82	CC intermediate filament
8	8.3	NULL	19	BP peptide cross-linking
9	8.01	NULL	21	CC desmosome
10	7.6	NULL	16	GSEA C2JAEGER_METASTASIS_DN
11	7.12	NULL	44	CC keratin filament
12	6.95	NULL	186	MF structural molecule activity
13	6.65	NULL	10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
14	6.62	NULL	10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
15	6.54	NULL	10	MF RAGE receptor binding
16	6.48	NULL	13	BP negative regulation of peptidase activity
17	6.11	NULL	16	GSEA C2ONDER_CDH1_TARGETS_3_DN
18	6.06	NULL	52	BP negative regulation of endopeptidase activity
19	5.94	NULL	21	CC gap junction
20	5.92	NULL	79	MF serine-type endopeptidase inhibitor activity
<i>Underexpressed</i>				
1	-7.52	NULL	11	MF platelet-derived growth factor binding
2	-6.3	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
3	-6.06	NULL	12	miRNA target-29c
4	-5.75	NULL	8	GSEA C2RUNNE_GENDER_EFFECT_UP
5	-5.73	NULL	1749	MF DNA binding
6	-5.63	NULL	12	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C2
7	-5.52	NULL	7	MMML C6SCIEJ_MMML 5
8	-5.49	NULL	250	LymphonotENZ_Stromal signature 1
9	-5.41	NULL	16	MMML C6SCIEJ_MMML 1
10	-5.28	NULL	190	CC extracellular matrix
11	-5.27	NULL	69	BP extracellular matrix disassembly
12	-5.21	NULL	914	Chr Chr 3
13	-5.08	NULL	10	BP negative regulation of cell-substrate adhesion
14	-5.07	NULL	68	CC collagen
15	-5.01	NULL	37	BP collagen fibril organization
16	-4.95	NULL	743	Chr Chr 7
17	-4.77	NULL	13	GSEA C2HELLEBREKERS_SILENCED_DURING_TUMOR_ANGIOGENES
18	-4.77	NULL	274	LymphonotSPANG_IL21 DN
19	-4.57	NULL	265	Glio willscher_GBM_Verhaak-CL_expression_B_up
20	-4.57	NULL	265	Glio willscher_GBM_Verhaak-MES_expression_B_up

Profile

Regulated Spots



p-values



GW_191

Local Summary

%DE = 0.85
 # metagenes = 18
 # genes = 260
 # genes in genesets = 254

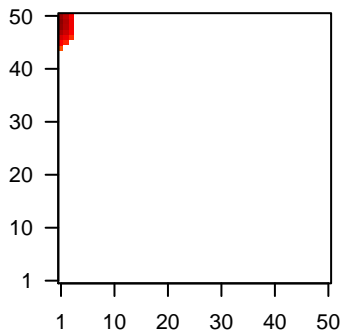
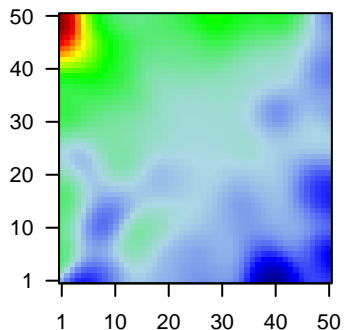
genes with $fdr < 0.1 = 199$ (189 + / 10 -)
 # genes with $fdr < 0.05 = 187$ (179 + / 8 -)
 # genes with $fdr < 0.01 = 172$ (168 + / 4 -)

<r> metagenes = 0.93
 <r> genes = 0.42

<FC> = 0.82
 <shrinkage-t> = 28.87
 <p-value> = 0
 <fdr> = 0.27

Profile

Spot



Local Genelist

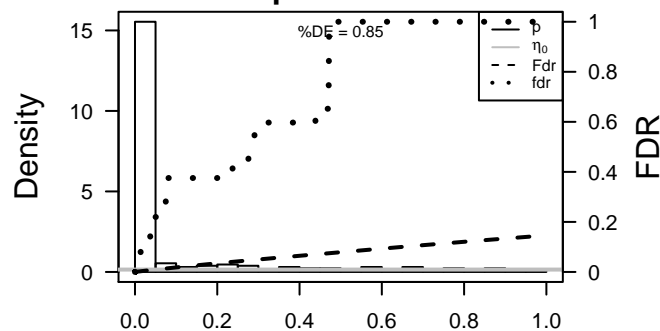
Rank	ID	log(FC)	fdr	p-value	Description
1	242	1.71	2e-16	2e-16	1 x 48 arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syrn
2	151516	1.89	2e-16	2e-16	1 x 46 aspartic peptidase, retroviral-like 1 [Source:HGNC Symbol;A
3	387695	1.84	2e-16	2e-16	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
4	29113	1.88	2e-16	2e-16	2 x 47 chromosome 6 open reading frame 15 [Source:HGNC Symbc
5	760	2.17	2e-16	2e-16	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
6	84290	1.4	2e-16	2e-16	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
7	1041	2.57	2e-16	2e-16	1 x 46 corneodesmosin [Source:HGNC Symbol;Acc:1802]
8	84518	1.92	2e-16	2e-16	1 x 50 cornifelin [Source:HGNC Symbol;Acc:30183]
9	126410	2.53	2e-16	2e-16	1 x 49 cytochrome P450, family 4, subfamily F, polypeptide 22 [Sour
10	414325	1.44	2e-16	2e-16	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
11	1673	1.52	2e-16	2e-16	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
12	93099	1.94	2e-16	2e-16	1 x 47 dermokine [Source:HGNC Symbol;Acc:25063]
13	1823	2.52	2e-16	2e-16	1 x 45 desmocollin 1 [Source:HGNC Symbol;Acc:3035]
14	1828	2.62	2e-16	2e-16	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
15	9982	1.36	2e-16	2e-16	1 x 47 fibroblast growth factor binding protein 1 [Source:HGNC Syml
16	2312	2.11	2e-16	2e-16	1 x 49 filaggrin [Source:HGNC Symbol;Acc:3748]
17	2697	1.85	2e-16	2e-16	1 x 44 gap junction protein, alpha 1, 43kDa [Source:HGNC Symbol;]
18	29094	1.93	2e-16	2e-16	1 x 48 lectin, galactoside-binding-like [Source:HGNC Symbol;Acc:2
19	3489	2.29	2e-16	2e-16	1 x 44 insulin-like growth factor binding protein 6 [Source:HGNC Sy
20	26525	2.06	2e-16	2e-16	1 x 49 interleukin 36 receptor antagonist [Source:HGNC Symbol;Acc

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	37.96	NULL	18 / 21	CC cornified envelope
2	37.77	NULL	85 / 135	H.Tiss WIRTH_Mucosa
3	30.98	NULL	24 / 53	BP keratinocyte differentiation
4	28.18	NULL	19 / 42	BP keratinization
5	25.33	NULL	102 / 572	Disease GUDJ_psooriasis up
6	19.65	NULL	24 / 76	BP epidermis development
7	18.61	NULL	12 / 21	CC desmosome
8	17.68	NULL	10 / 19	BP peptide cross-linking
9	16.5	NULL	5 / 10	MF RAGE receptor binding
10	14.73	NULL	3 / 8	GSEA C2IUCDX2_TARGETS_DN
11	14.26	NULL	19 / 82	CC intermediate filament
12	13.79	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
13	13.6	NULL	3 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
14	12.94	NULL	26 / 186	MF structural molecule activity
15	12.75	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
16	12.63	NULL	6 / 16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
17	12.2	NULL	9 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
18	12.2	NULL	12 / 44	CC keratin filament
19	12.02	NULL	5 / 16	GSEA C2IAEGER_METASTASIS_DN
20	11.99	NULL	13 / 79	MF serine-type endopeptidase inhibitor activity
21	11.84	NULL	4 / 10	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_UP
22	11.76	NULL	10 / 52	BP negative regulation of endopeptidase activity
23	11.63	NULL	7 / 29	BP regulation of proteolysis
24	11.56	NULL	2 / 7	GSEA C2YE_METASTATIC_LIVER_CANCER
25	10.9	NULL	8 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
26	10.55	NULL	3 / 11	GSEA C2MURAKAMI_UV_RESPONSE_24HR
27	10.42	NULL	4 / 21	CC gap junction
28	9.73	NULL	6 / 15	GSEA C2HINATA_NFKB_TARGETS KERATINOCYTE_DN
29	9.61	NULL	8 / 15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
30	9.33	NULL	4 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
31	9.31	NULL	6 / 13	BP negative regulation of peptidase activity
32	9.25	NULL	6 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATEL
33	9.16	NULL	3 / 11	GSEA C2MURAKAMI_UV_RESPONSE_6HR_DN
34	8.8	NULL	3 / 10	GSEA C2NIKOLSKY_BREAST_CANCER_20Q12_Q13_AMPlicON
35	8.74	NULL	3 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
36	8.56	NULL	3 / 12	GSEA C2REACTOME_GAP_JUNCTION_ASSEMBLY
37	8.43	NULL	1 / 5	GSEA C2BUSA_SAM68_TARGETS_UP
38	8.3	NULL	61 / 1182	CC extracellular region
39	8.23	NULL	3 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
40	8.17	NULL	3 / 13	GSEA C2REACTOME_GAP_JUNCTION_TRAFFICKING

p-values



GW_191

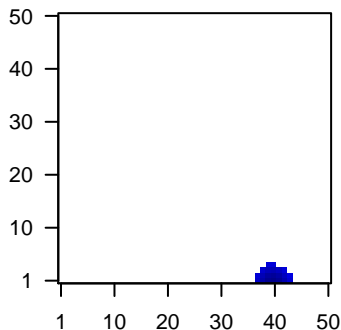
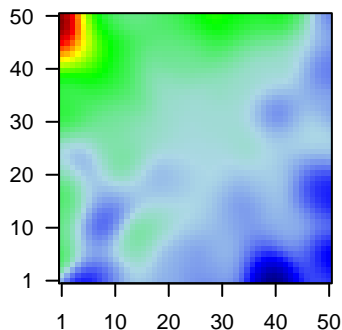
Local Summary

%DE = 0.92
 # metagenes = 21
 # genes = 304
 # genes in genesets = 277
 # genes with $fdr < 0.1 = 254$ (5 + / 249 -)
 # genes with $fdr < 0.05 = 230$ (4 + / 226 -)
 # genes with $fdr < 0.01 = 177$ (3 + / 174 -)

<r> metagenes = 0.96
 <r> genes = 0.44
 <FC> = -0.44
 <shrinkage-t> = -15.4
 <p-value> = 0
 <fdr> = 0.45

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	641737	-1.12	7e-13	9e-09	40 x 1
2	126205	-1.05	4e-10	9e-09	40 x 1 NLR family, pyrin domain containing 8 [Source:HGNC Symbol]
3	3586	-0.95	1e-09	9e-09	40 x 1 interleukin 10 [Source:HGNC Symbol;Acc:5962]
4	81033	-0.93	1e-09	9e-09	39 x 1 potassium voltage-gated channel, subfamily H (eag-related),
5	4851	-1.01	2e-09	9e-09	42 x 1 notch 1 [Source:HGNC Symbol;Acc:7881]
6	250	-1.01	2e-09	3e-08	40 x 1 alkaline phosphatase, placental [Source:HGNC Symbol;Acc:4
7	55719	-0.99	4e-09	3e-08	42 x 1 family with sequence similarity 178, member A [Source:HGNC
8	90586	-0.98	5e-09	3e-08	39 x 1 amine oxidase, copper containing 4, pseudogene [Source:HC
9	440353	-0.98	6e-09	1e-07	40 x 1
10	91368	-0.88	1e-08	1e-07	39 x 1 CDKN2A interacting protein N-terminal like [Source:HGNC S
11	400818	-0.95	2e-08	2e-07	40 x 1 Neuroblastoma breakpoint family member 1 [Source:UniProt
12	25862	-0.93	3e-08	2e-07	40 x 1 ubiquitin specific peptidase 49 [Source:HGNC Symbol;Acc:20
13	79716	-0.93	3e-08	4e-07	41 x 2 aminopeptidase-like 1 [Source:HGNC Symbol;Acc:16244]
14	5143	-0.84	5e-08	4e-07	39 x 1 phosphodiesterase 4C, cAMP-specific [Source:HGNC Symbu
15	374882	-0.9	7e-08	4e-07	42 x 1 transmembrane protein 205 [Source:HGNC Symbol;Acc:2963
16	255031	-0.9	8e-08	4e-07	40 x 1 long intergenic non-protein coding RNA 957 [Source:HGNC :
17	399900	-0.82	9e-08	4e-07	39 x 1
18	10180	-0.89	1e-07	9e-07	43 x 1 RNA binding motif protein 6 [Source:HGNC Symbol;Acc:9903
19	57835	-0.88	1e-07	2e-06	40 x 1 Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:E71
20	51326	-0.87	2e-07	2e-06	42 x 1 ADP-ribosylation factor-like 17B [Source:HGNC Symbol;Acc

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-11.65	NULL	2 / 4	GSEA C2BIOCARTA_CYTOKINE_PATHWAY
2	-9.62	NULL	3 / 14	MMML C2GOCIEJ_MMML 8
3	-7.35	NULL	1 / 5	GSEA C2BIOCARTA_INFLAM_PATHWAY
4	-7.17	NULL	3 / 13	GSEA C2SPIRA_SMOKERS_LUNG_CANCER_DN
5	-6.6	NULL	1 / 6	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_UP
6	-6.6	NULL	1 / 6	GSEA C2SEIKE_LUNG_CANCER_POOR_SURVIVAL
7	-6.55	NULL	3 / 19	BP sprouting angiogenesis
8	-5.94	NULL	1 / 7	GSEA C2BRUNEAU_HEART_GREAT_VESSELS_AND_VALVULOGENESIS
9	-5.86	NULL	2 / 13	BP positive regulation of JAK-STAT cascade
10	-5.83	NULL	3 / 13	GSEA C2BONOME_OVARIAN_CANCER_POOR_SURVIVAL_DN
11	-5.57	NULL	1 / 8	GSEA C2BIOCARTA_ASBCCELL_PATHWAY
12	-5.54	NULL	2 / 14	BP cellular response to estradiol stimulus
13	-5.49	NULL	1 / 8	GSEA C2KEGG_PRION_DISEASES
14	-5.39	NULL	2 / 15	Glio Donson-chemokines/cytokines-associated with LTS in HGA
15	-5.15	NULL	3 / 24	BP negative regulation of T cell proliferation
16	-5.11	NULL	1 / 9	GSEA C2REACTOME_A_THIRD_PROTEOLYTIC_CLEAVAGE_RELEASES
17	-5.11	NULL	1 / 9	GSEA C2REACTOME_REGULATION_OF_BETA_CELL_DEVELOPMENT
18	-4.95	NULL	2 / 14	BP mitochondrion morphogenesis
19	-4.93	NULL	2 / 13	GSEA C2WU_HBX_TARGETS_1_DN
20	-4.88	NULL	2 / 9	GSEA C2GOERING_BLOOD_HDL_CHOLESTEROL_QTL_CIS
21	-4.87	NULL	1 / 10	BP negative regulation of nitric oxide biosynthetic process
22	-4.87	NULL	1 / 10	GSEA C2BIOCARTA_IL10_PATHWAY
23	-4.8	NULL	1 / 10	BP anagen
24	-4.8	NULL	1 / 10	BP cardiac epithelial to mesenchymal transition
25	-4.8	NULL	1 / 10	BP inflammatory response to antigenic stimulus
26	-4.8	NULL	1 / 10	BP negative regulation of cell-substrate adhesion
27	-4.8	NULL	1 / 10	BP positive regulation of keratinocyte differentiation
28	-4.8	NULL	1 / 10	BP prostate gland epithelium morphogenesis
29	-4.8	NULL	1 / 10	BP somatic stem cell division
30	-4.8	NULL	1 / 10	GSEA C2CAMP5_COLON_CANCER_COPY_NUMBER_UP
31	-4.6	NULL	1 / 11	BP negative regulation of interleukin-12 production
32	-4.6	NULL	1 / 11	GSEA C2SU_PANCREAS
33	-4.53	NULL	1 / 11	BP cardiac muscle tissue morphogenesis
34	-4.53	NULL	1 / 11	BP negative regulation of myoblast differentiation
35	-4.53	NULL	1 / 11	BP negative regulation of oligodendrocyte differentiation
36	-4.53	NULL	1 / 11	BP neuronal stem cell maintenance
37	-4.53	NULL	1 / 11	BP regulation of epithelial cell proliferation
38	-4.53	NULL	1 / 11	GSEA C2BIOCARTA_PS1_PATHWAY
39	-4.53	NULL	1 / 11	GSEA C2REACTOME_NOTCH_HLH_TRANSCRIPTION_PATHWAY
40	-4.52	NULL	1 / 11	GSEA C2KEGG_FOLATE_BIOSYNTHESIS

p-values

