

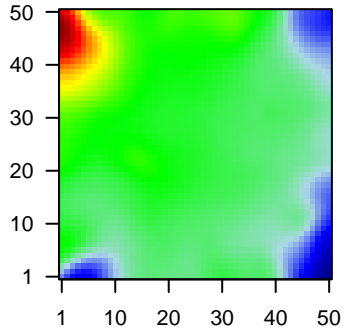
GW_269

Global Summary

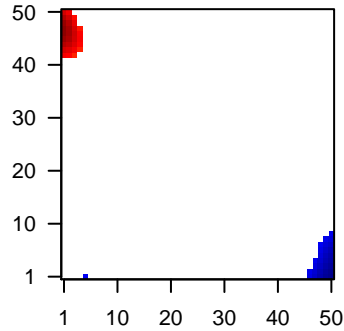
%DE = 0.12
 # genes with fdr < 0.2 = 1465 (714 + / 751 -)
 # genes with fdr < 0.1 = 1111 (536 + / 575 -)
 # genes with fdr < 0.05 = 926 (441 + / 485 -)
 # genes with fdr < 0.01 = 671 (333 + / 338 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.13
 <fdr> = 0.88

Profile



Regulated Spots



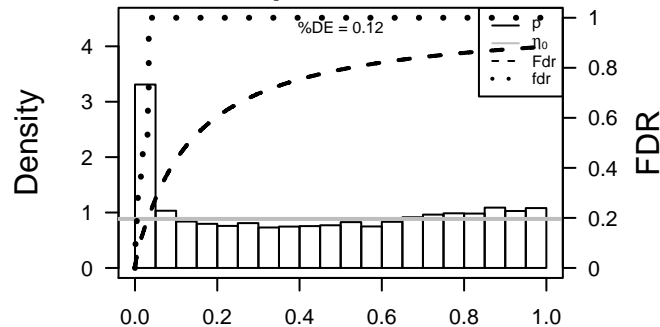
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	216	-1.72	2e-16	6e-14	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC]
2	387695	2.45	2e-16	6e-14	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Symt]
3	760	1.89	2e-16	6e-14	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
4	768	2.19	2e-16	6e-14	1 x 6 carbonic anhydrase IX [Source:HGNC Symbol;Acc:1383]
5	595	-1.65	2e-16	6e-14	1 x 6 cyclin D1 [Source:HGNC Symbol;Acc:1582]
6	894	1.72	2e-16	6e-14	50 x 4 cyclin D2 [Source:HGNC Symbol;Acc:1583]
7	1041	1.82	2e-16	6e-14	1 x 46 corneodesmosin [Source:HGNC Symbol;Acc:1802]
8	22802	-1.74	2e-16	6e-14	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20]
9	1278	-2.04	2e-16	6e-14	2 x 1 collagen, type I, alpha 2 [Source:HGNC Symbol;Acc:2198]
10	1281	-1.82	2e-16	6e-14	2 x 1 collagen, type III, alpha 1 [Source:HGNC Symbol;Acc:2201]
11	1293	-1.85	2e-16	6e-14	2 x 1 collagen, type VI, alpha 3 [Source:HGNC Symbol;Acc:2213]
12	51200	2.68	2e-16	6e-14	1 x 44 carboxypeptidase A4 [Source:HGNC Symbol;Acc:15740]
13	126410	1.78	2e-16	6e-14	1 x 49 cytochrome P450, family 4, subfamily F, polypeptide 22 [Sour
14	55894	2.66	2e-16	6e-14	1 x 47 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
15	414325	2.74	2e-16	6e-14	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
16	93099	1.77	2e-16	6e-14	1 x 47 dermokine [Source:HGNC Symbol;Acc:25063]
17	1809	-1.94	2e-16	6e-14	6 x 1 dihydropyrimidinase-like 3 [Source:HGNC Symbol;Acc:3015]
18	1828	2.75	2e-16	6e-14	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
19	2201	1.84	2e-16	6e-14	1 x 5 fibrillin 2 [Source:HGNC Symbol;Acc:3604]
20	80157	1.72	2e-16	6e-14	1 x 48 cell wall biogenesis 43 C-terminal homolog (S. cerevisiae) [S

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	21.08	NULL	135	H.Tiss WIRTH_Mucosa
2	15.76	NULL	572	Disease GUDJ_psooriasis up
3	11.97	NULL	21	CC cornified envelope
4	10.29	NULL	76	BP epidermis development
5	9.87	NULL	42	BP keratinization
6	9.75	NULL	53	BP keratinocyte differentiation
7	8.59	NULL	21	CC desmosome
8	8.38	NULL	743	Chr Chr 7
9	7.92	NULL	16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
10	7.3	NULL	16	GSEA C2JAEGER_METASTASIS_DN
11	7.13	NULL	10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
12	6.82	NULL	15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATEL
13	6.64	NULL	15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN
14	6.25	NULL	15	GSEA C2AIGNER_ZEB1_TARGETS
15	6.2	NULL	16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
16	5.86	NULL	15	GSEA C2ONDER_CDH1_TARGETS_2_DN
17	5.06	NULL	14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
18	5.04	NULL	15	MF interleukin-1 receptor binding
19	4.85	NULL	15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
20	4.67	NULL	16	GSEA C2COLDREN_GEFITINIB_RESISTANCE_DN
<i>Underexpressed</i>				
1	-13.82	NULL	553	Cancer Lembecke_Colonc Inflammation
2	-11.24	NULL	417	H.Tiss WIRTH_Immune system
3	-11.05	NULL	190	CC extracellular matrix
4	-10.57	NULL	142	Glio wilscher_GBM_Verhaak-CL_expression_C_up
5	-10.57	NULL	142	Glio wilscher_GBM_Verhaak-PNmut_expression_C_down
6	-10.53	NULL	11	MF platelet-derived growth factor binding
7	-10.28	NULL	250	LymphomaL1ENZ_Stromal signature 1
8	-8.57	NULL	12	miRNA target-29c
9	-8.57	NULL	375	Disease GUDJ_psooriasis down
10	-8.26	NULL	57	Glio developing astrocytes
11	-8.23	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
12	-7.54	NULL	8023	MF protein binding
13	-7.4	NULL	16	MMML C6CIEJ_MMML 1
14	-7.37	NULL	8	GSEA C2RUNNE_GENDER_EFFECT_UP
15	-7.17	NULL	7	MMML C6CIEJ_MMML 5
16	-7.01	NULL	16	GSEA C2CROONQUIST_NRAS_VS_STROMAL_STIMULATION_DN
17	-6.93	NULL	162	CC external side of plasma membrane
18	-6.72	NULL	37	BP collagen fibril organization
19	-6.71	NULL	312	BP immune response
20	-6.65	NULL	242	BP extracellular matrix organization

p-values



GW_269

Local Summary

%DE = 0.89
 # metagenes = 31
 # genes = 385
 # genes in genesets = 377

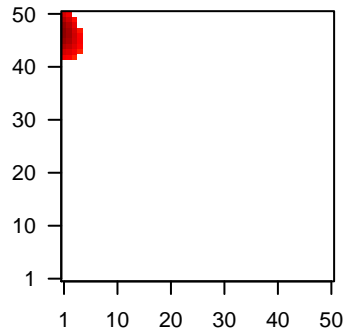
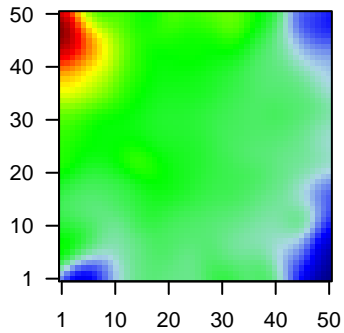
genes with $fdr < 0.1$ = 313 (297 + / 16 -)
 # genes with $fdr < 0.05$ = 293 (278 + / 15 -)
 # genes with $fdr < 0.01$ = 252 (238 + / 14 -)

$\langle r \rangle$ metagenes = 0.89
 $\langle r \rangle$ genes = 0.36

$\langle FC \rangle = 0.74$
 $\langle \text{shrinkage-t} \rangle = 25.95$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.29$

Profile

Spot



Local Genelist

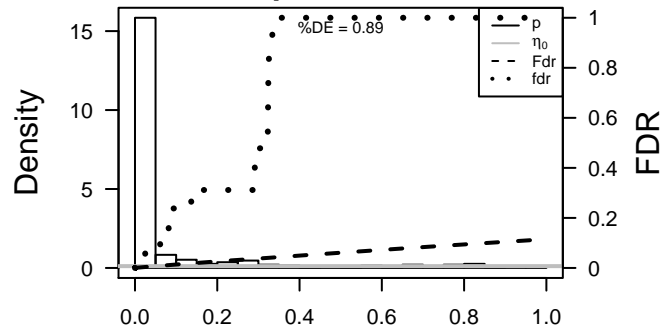
Rank	ID	log(FC)	fdr	p-value	Description
1	387695	2.45	2e-16	3e-16	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Synt
2	760	1.89	2e-16	3e-16	1 x 44 carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
3	1041	1.82	2e-16	3e-16	1 x 46 corneodesmosin [Source:HGNC Symbol;Acc:1802]
4	22802	-1.74	2e-16	3e-16	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
5	51200	2.68	2e-16	3e-16	1 x 44 carboxypeptidase A4 [Source:HGNC Symbol;Acc:15740]
6	126410	1.78	2e-16	3e-16	1 x 49 cytochrome P450, family 4, subfamily F, polypeptide 22 [Sour
7	55894	2.66	2e-16	3e-16	1 x 47 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
8	414325	2.74	2e-16	3e-16	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
9	93099	1.77	2e-16	3e-16	1 x 47 dermokine [Source:HGNC Symbol;Acc:25063]
10	1828	2.75	2e-16	3e-16	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
11	80157	1.72	2e-16	3e-16	1 x 48 cell wall biogenesis 43 C-terminal homolog (S. cerevisiae) [S
12	10804	1.69	2e-16	3e-16	1 x 47 gap junction protein, beta 6, 30kDa [Source:HGNC Symbol;A
13	374918	2.35	2e-16	3e-16	1 x 45 IGF-like family member 1 [Source:HGNC Symbol;Acc:24093]
14	26525	1.71	2e-16	3e-16	1 x 49 interleukin 36 receptor antagonist [Source:HGNC Symbol;Acc
15	3868	1.69	2e-16	3e-16	1 x 46 keratin 16 [Source:HGNC Symbol;Acc:6423]
16	3851	-1.93	2e-16	3e-16	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]
17	388533	2.82	2e-16	3e-16	1 x 49 keratinocyte differentiation-associated protein [Source:HGNC
18	3963	1.7	2e-16	3e-16	1 x 47 lectin, galactoside-binding, soluble, 7 [Source:HGNC Symbol
19	653499	1.85	2e-16	3e-16	1 x 47 lectin, galactoside-binding, soluble, 7 [Source:HGNC Symbol
20	643479	1.8	2e-16	3e-16	1 x 49

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	41.26	NULL	88 / 135	H.Tiss WIRTH_Mucosa
2	30.05	NULL	125 / 572	Disease GUDJ_psooriasis_up
3	28.33	NULL	18 / 21	CC cornified envelope
4	24.12	NULL	31 / 76	BP epidermis development
5	21.47	NULL	20 / 42	BP keratinization
6	21.34	NULL	26 / 53	BP keratinocyte differentiation
7	20.76	NULL	13 / 21	CC desmosome
8	16.34	NULL	10 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
9	13.77	NULL	4 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
10	13.3	NULL	7 / 15	GSEA C2AIGNER_ZEB1_TARGETS
11	13.18	NULL	7 / 16	GSEA C2WANG_BARRETTES_ESOPHAGUS_DN
12	12.98	NULL	11 / 19	BP peptide cross-linking
13	12.84	NULL	6 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATEL
14	11.93	NULL	5 / 10	MF RAGE receptor binding
15	11.54	NULL	7 / 15	GSEA C2HINATA_NFKB_TARGETS KERATINOCYTE_DN
16	11.52	NULL	5 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN
17	11.15	NULL	6 / 16	GSEA C2JAEGER_METASTASIS_DN
18	10.2	NULL	7 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
19	10.06	NULL	14 / 79	MF serine-type endopeptidase inhibitor activity
20	9.97	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
21	9.54	NULL	4 / 13	GSEA C2REACTOME_GAP_JUNCTION_TRAFFICKING
22	9.25	NULL	4 / 15	GSEA C2SENESE_HDAC1_AND_HDAC2_TARGETS_DN
23	9.21	NULL	70 / 1182	CC extracellular region
24	9.19	NULL	10 / 52	BP negative regulation of endopeptidase activity
25	9.14	NULL	6 / 14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
26	8.96	NULL	8 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
27	8.85	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
28	8.8	NULL	5 / 25	BP response to zinc ion
29	8.74	NULL	4 / 8	GSEA C2LIU_CDX2_TARGETS_DN
30	8.74	NULL	7 / 29	BP regulation of proteolysis
31	8.66	NULL	4 / 15	GSEA C2ONDER_CDH1_TARGETS_2_DN
32	8.6	NULL	32 / 186	MF structural molecule activity
33	8.57	NULL	7 / 16	GSEA C2COLDREN_GEFITINIB_RESISTANCE_DN
34	8.47	NULL	3 / 12	GSEA C2REACTOME_GAP_JUNCTION_ASSEMBLY
35	8.43	NULL	3 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
36	8.42	NULL	4 / 15	GSEA C2CHANG_IMMORTALIZED_BY_HPV31_DN
37	8.4	NULL	5 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_DN
38	8.37	NULL	4 / 10	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_UP
39	8.31	NULL	6 / 49	Glio Christensen_hypomethylated_in_primary_glioblastoma
40	8.08	NULL	23 / 82	CC intermediate filament

p-values



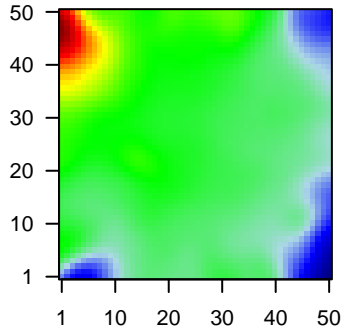
GW_269

Local Summary

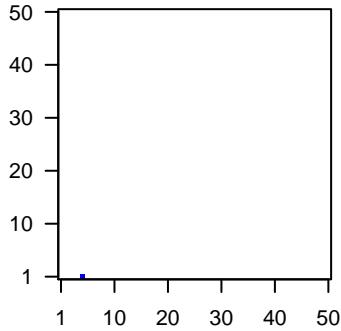
%DE = 0.96
 # metagenes = 1
 # genes = 36
 # genes in genesets = 36
 # genes with $fdr < 0.1 = 32$ (3 + / 29 -)
 # genes with $fdr < 0.05 = 32$ (3 + / 29 -)
 # genes with $fdr < 0.01 = 25$ (3 + / 22 -)

<r> metagenes = NA
 <r> genes = 0.44
 <FC> = -0.53
 <shrinkage-t> = -18.67
 <p-value> = 0
 <fdr> = 0.39

Profile



Spot



Local Genelist

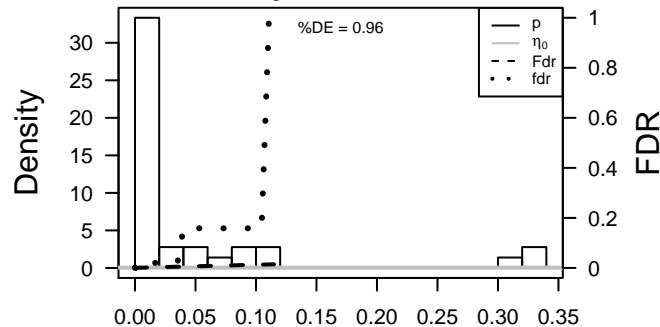
Rank	ID	log(FC)	p-value	fdr	Description
1	3487	-1.75	2e-16	3e-16	5 x 1 insulin-like growth factor binding protein 4 [Source:HGNC Sy
2	4692	-1.24	3e-10	5e-09	5 x 1 neccdin, melanoma antigen (MAGE) family member [Source:H
3	5156	-1.16	3e-09	8e-08	5 x 1 platelet-derived growth factor receptor, alpha polypeptide [Sc
4	2791	-1.05	9e-08	8e-08	5 x 1 guanine nucleotide binding protein (G protein), gamma 11 [Sr
5	83700	-1.03	1e-07	8e-08	5 x 1 junctional adhesion molecule 3 [Source:HGNC Symbol;Acc:1
6	81035	-1.03	2e-07	5e-06	5 x 1 collectin sub-family member 12 [Source:HGNC Symbol;Acc:1
7	10962	-0.91	3e-06	1e-05	5 x 1 myeloid/lymphoid or mixed-lineage leukemia (trithorax homol
8	221395	-0.85	2e-05	1e-05	5 x 1 G protein-coupled receptor 116 [Source:HGNC Symbol;Acc:1
9	3043	0.83	2e-05	1e-05	5 x 1 hemoglobin, beta [Source:HGNC Symbol;Acc:4827]
10	2982	-0.82	3e-05	1e-05	5 x 1 guanylate cyclase 1, soluble, alpha 3 [Source:HGNC Symbol;
11	29995	-0.81	4e-05	6e-05	5 x 1 LIM and cysteine-rich domains 1 [Source:HGNC Symbol;Acc
12	5866	-0.77	8e-05	2e-04	5 x 1 RAB3A interacting protein (rabin3)-like 1 [Source:HGNC Syrr
13	5919	-0.72	2e-04	2e-04	5 x 1 retinoic acid receptor responder (tazarotene induced) 2 [Sour
14	187	-0.71	3e-04	8e-04	5 x 1 apelin receptor [Source:HGNC Symbol;Acc:339]
15	114757	-0.66	8e-04	2e-03	5 x 1 cytoglobin [Source:HGNC Symbol;Acc:16505]
16	56944	-0.59	2e-03	3e-03	5 x 1 olfactomedin-like 3 [Source:HGNC Symbol;Acc:24956]
17	54749	-0.55	5e-03	3e-03	5 x 1 ependymin related 1 [Source:HGNC Symbol;Acc:17572]
18	9891	-0.54	6e-03	3e-03	5 x 1 NUAK family, SNF1-like kinase, 1 [Source:HGNC Symbol;Acc
19	5997	-0.51	9e-03	3e-03	5 x 1 regulator of G-protein signaling 2, 24kDa [Source:HGNC Syrr
20	10395	-0.49	1e-02	3e-03	5 x 1 deleted in liver cancer 1 [Source:HGNC Symbol;Acc:2897]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-35.82	NULL	1 / 5	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C6
2	-23.62	NULL	1 / 5	Glio laffaire_hypometh_LGG_vs_control
3	-21.22	NULL	2 / 13	GSEA C2REACTOME_HEMOSTASIS
4	-20.96	NULL	2 / 13	GSEA C2EE_INTRATHYMIC_T_PROGENITOR
5	-18.82	NULL	1 / 12	BP regulation of glucose metabolic process
6	-17.98	NULL	2 / 14	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_GRANULO
7	-17.86	NULL	1 / 13	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_E_DN
8	-17.86	NULL	1 / 13	GSEA C2IZUKA_LIVER_CANCER_PROGRESSION_L1_G1_UP
9	-17.86	NULL	1 / 13	GSEA C2REACTOME_REGULATION_OF_INSULIN_LIKE_GROWTH_FAC
10	-17.03	NULL	1 / 14	GSEA C2STEIN_ESTROGEN_RESPONSE_NOT_VIA_ESRRA
11	-16.29	NULL	1 / 15	GSEA C2WILLIAMS_ESR1_TARGETS_UP
12	-16.29	NULL	1 / 15	GSEA C2GILDEA_METASTASIS
13	-15.64	NULL	1 / 16	GSEA C2NOJIMA_SFRP2_TARGETS_DN
14	-15.64	NULL	1 / 16	GSEA C2MACLACHLAN_BRCA1_TARGETS_UP
15	-15.28	NULL	2 / 15	MF platelet-derived growth factor receptor binding
16	-15.06	NULL	1 / 9	GSEA C2KANG_GIST_WITH_PDGFR_A_UP
17	-15.02	NULL	2 / 15	GSEA C2CORRE_MULTIPLE_MYELOMA_DN
18	-14.91	NULL	2 / 10	GSEA C2SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
19	-14.79	NULL	1 / 8	GSEA C2REACTOME_G_ALPHA_I_SIGNALLING_EVENTS
20	-14.65	NULL	1 / 5	GSEA C2NAKAMURA_ALVEOLAR_EPITHELIUM
21	-14.6	NULL	1 / 8	GSEA C2CASORELLI_APL_SECONDARY_VS_DE_NOVO_DN
22	-14.6	NULL	1 / 8	GSEA C2KEGG_CELL_ADHESION_MOLECULES_CAMS
23	-14	NULL	1 / 10	GSEA C2IZUKA_RECURRENT_LIVER_CANCER
24	-13.67	NULL	2 / 15	GSEA C2ONDER_CDH1_TARGETS_2_UP
25	-13.6	NULL	1 / 9	GSEA C2JISON_SICKLE_CELL_DISEASE_UP
26	-13.6	NULL	1 / 9	GSEA C2REACTOME_G_ALPHA_Q_SIGNALLING_EVENTS
27	-13.16	NULL	2 / 53	BP regulation of growth
28	-13.12	NULL	1 / 11	BP estrogen metabolic process
29	-13.12	NULL	1 / 11	MF platelet-derived growth factor binding
30	-12.84	NULL	1 / 22	MF insulin-like growth factor binding
31	-12.56	NULL	1 / 13	BP axon extension
32	-12.38	NULL	1 / 12	BP Leydig cell differentiation
33	-11.97	NULL	1 / 14	BP axonal fasciculation
34	-11.85	NULL	1 / 11	GSEA C2REACTOME_G_ALPHA_S_SIGNALLING_EVENTS
35	-11.75	NULL	1 / 13	Glio Christensen_hypomethylated_in_grade2_oligodendrogloma
36	-11.75	NULL	1 / 13	GSEA C2BIOCARTA_CBL_PATHWAY
37	-11.69	NULL	1 / 11	CC Schmidt-Lanterman incisure
38	-11.19	NULL	1 / 14	Glio Christensen_hypomethylated_in_grade2_oligoastrocytoma
39	-11.19	NULL	1 / 14	Glio Christensen_hypomethylated_in_grade2_oligoastrocytoma
40	-11.18	NULL	1 / 12	GSEA C2REACTOME_G_PROTEIN_ACTIVATION

p-values



GW_269

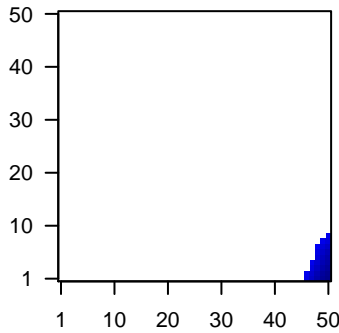
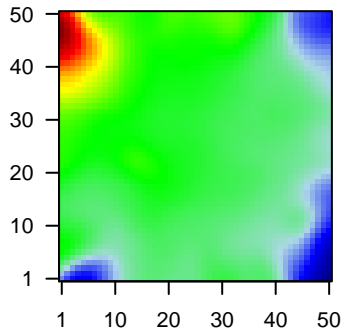
Local Summary

%DE = 0.85
 # metagenes = 30
 # genes = 448
 # genes in genesets = 446
 # genes with $fdr < 0.1$ = 326 (8 + / 318 -)
 # genes with $fdr < 0.05$ = 314 (8 + / 306 -)
 # genes with $fdr < 0.01$ = 214 (5 + / 209 -)

<r> metagenes = 0.91
 <r> genes = 0.43
 <FC> = -0.55
 <shrinkage-t> = -19.25
 <p-value> = 0
 <fdr> = 0.44

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	894	1.72	2e-16	2e-15	50 x 4 cyclin D2 [Source:HGNC Symbol;Acc:1583]
2	3488	-2.22	2e-16	2e-15	50 x 7 insulin-like growth factor binding protein 5 [Source:HGNC Sy
3	3512	-1.83	2e-16	2e-15	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglobu
4	3543	-1.88	2e-16	2e-15	49 x 1 immunoglobulin lambda-like polypeptide 1 [Source:HGNC Sy
5	4256	-1.6	2e-16	2e-15	50 x 6 matrix Gla protein [Source:HGNC Symbol;Acc:7060]
6	6192	-3.1	2e-16	2e-15	50 x 9 ribosomal protein S4, Y-linked 1 [Source:HGNC Symbol;Acc:
7	5920	-1.59	4e-16	4e-14	48 x 1 retinoic acid receptor responder (tazarotene induced) 3 [Sour
8	6578	-1.57	1e-15	1e-12	50 x 4 solute carrier organic anion transporter family, member 2A1 [
9	90865	1.49	3e-14	1e-12	50 x 7 interleukin 33 [Source:HGNC Symbol;Acc:16028]
10	54855	-1.48	4e-14	5e-12	49 x 1 family with sequence similarity 46, member C [Source:HGNC
11	3936	-1.45	1e-13	5e-12	50 x 1 lymphocyte cytosolic protein 1 (L-plastin) [Source:HGNC Syr
12	8404	-1.43	2e-13	5e-12	50 x 6 SPARC-like 1 (hevin) [Source:HGNC Symbol;Acc:11220]
13	10537	-1.43	3e-13	4e-11	50 x 1 ubiquitin D [Source:HGNC Symbol;Acc:18795]
14	57172	-1.39	1e-12	4e-11	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
15	25849	-1.39	2e-12	1e-10	50 x 2 prostate androgen-regulated mucin-like protein 1 [Source:HG
16	2532	-1.36	4e-12	1e-10	50 x 5 Duffy blood group, atypical chemokine receptor [Source:HGNC
17	1363	-1.36	4e-12	1e-09	50 x 7 carboxypeptidase E [Source:HGNC Symbol;Acc:2303]
18	919	-1.3	3e-11	1e-09	50 x 1 CD247 molecule [Source:HGNC Symbol;Acc:1677]
19	1396	-1.29	5e-11	3e-09	50 x 5 cysteine-rich protein 1 (intestinal) [Source:HGNC Symbol;Ac
20	51176	-1.27	9e-11	3e-09	50 x 5 lymphoid enhancer-binding factor 1 [Source:HGNC Symbol;f

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-22.57	NULL	96 / 417	H.Tiss WIRTH_Immune system
2	-20.37	NULL	120 / 553	Cancer Lembecke_Colonc Inflammation
3	-17.17	NULL	63 / 312	BP immune response
4	-15.17	NULL	7 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HGA
5	-15.14	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
6	-14.62	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
7	-14.31	NULL	2 / 4	MMML C6SCIEJ_MMML 2
8	-14.13	NULL	5 / 9	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_DN
9	-13.98	NULL	7 / 15	GSEA C2FINAK_BREAST_CANCER_SDPP_SIGNATURE
10	-13.38	NULL	7 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
11	-13.26	NULL	3 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
12	-13.16	NULL	4 / 11	GSEA C2TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_DN
13	-13.05	NULL	4 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN
14	-13.03	NULL	6 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
15	-12.87	NULL	12 / 15	CC MHC class II protein complex
16	-12.5	NULL	2 / 7	GSEA C2LEE_NAIVE_T_LYMPHOCYTE
17	-12.23	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
18	-11.97	NULL	4 / 7	Glio Donson-cytotoxic effectors-associated with LTS in HGA
19	-11.94	NULL	6 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
20	-11.7	NULL	32 / 162	CC external side of plasma membrane
21	-11.66	NULL	3 / 13	GSEA C2KANG_IMMORTALIZED_BY_TERT_UP
22	-11.32	NULL	6 / 13	GSEA C2BIOCARTA_IL17_PATHWAY
23	-11.14	NULL	20 / 74	BP regulation of immune response
24	-10.79	NULL	17 / 60	BP T cell costimulation
25	-10.76	NULL	7 / 12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN
26	-10.74	NULL	7 / 13	Cancer GENTLES_modul18
27	-10.72	NULL	4 / 8	GSEA C2BIOCARTA_TCR_PATHWAY
28	-10.68	NULL	1 / 7	MMML C6SCIEJ_MMML 5
29	-10.65	NULL	5 / 8	GSEA C2NIELSEN_SYNOVIAL_SARCOMA_DN
30	-10.61	NULL	6 / 14	GSEA C2WU_SILENCED_BY_METHYLATION_IN_BLADDER_CANCER
31	-9.89	NULL	1 / 8	GSEA C2RUNNE_GENDER_EFFECT_UP
32	-9.89	NULL	1 / 8	GSEA C2REACTOME_REGULATION_OF_GENE_EXPRESSION_IN_BETA
33	-9.81	NULL	5 / 12	BP dendritic cell chemotaxis
34	-9.76	NULL	3 / 13	GSEA C2ZIRN_TRETINOIN_RESPONSE_UP
35	-9.67	NULL	2 / 6	GSEA C2TRAYNOR_RETT_SYNDROM_DN
36	-9.59	NULL	9 / 28	LymphomaNAVE_Immune response 1
37	-9.53	NULL	56 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
38	-9.53	NULL	56 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
39	-9.53	NULL	56 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
40	-9.53	NULL	56 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down

p-values

