

G9_mel

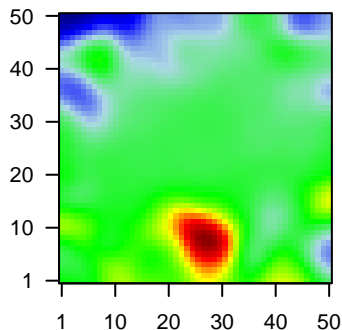
Global Summary

%DE = 0.17
 # genes with fdr < 0.2 = 1947 (1071 + / 876 -)
 # genes with fdr < 0.1 = 1527 (825 + / 702 -)
 # genes with fdr < 0.05 = 1031 (513 + / 518 -)
 # genes with fdr < 0.01 = 524 (216 + / 308 -)

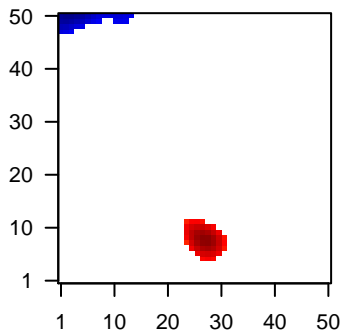
genes in genesets = 14839

<FC> = 0
 <shrinkage-t> = -0.11
 <p-value> = 0.13
 <fdr> = 0.83

Profile



Regulated Spots

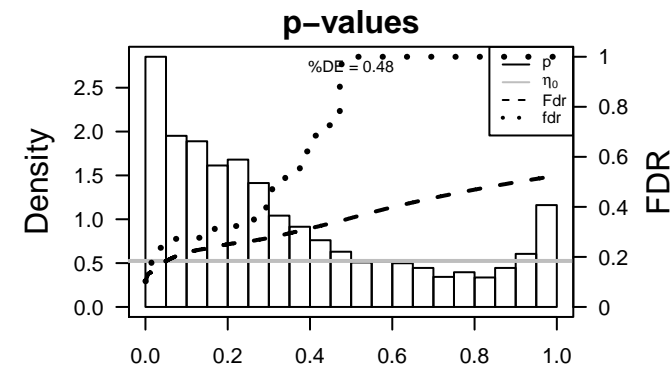
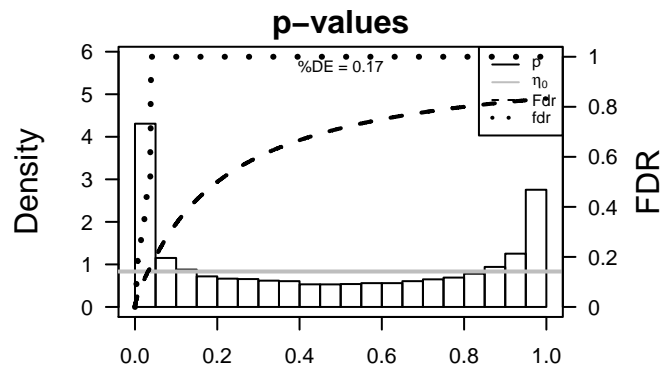


Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	ARL6IP1	-1.61	2e-16	1e-13	9 x 50 ADP-ribosylation factor-like 6 interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:10000]
2	ATPIF1	-1.69	2e-16	1e-13	50 x 47 ATPase inhibitory factor 1 [Source:HGNC Symbol;Acc:HGNC:10000]
3	BSCL2	-1.85	2e-16	1e-13	50 x 50 Berardinelli-Seip congenital lipodystrophy 2 (seipin) [Source:HGNC Symbol;Acc:HGNC:10000]
4	CALM1	-2.18	2e-16	1e-13	12 x 50 calmodulin 1 (phosphorylase kinase, delta) [Source:HGNC Symbol;Acc:HGNC:10000]
5	CERS2	-1.81	2e-16	1e-13	3 x 34 ceramide synthase 2 [Source:HGNC Symbol;Acc:HGNC:10000]
6	ECI2	-1.9	2e-16	1e-13	20 x 42 enoyl-CoA delta isomerase 2 [Source:HGNC Symbol;Acc:HGNC:10000]
7	EFTUD2	-1.92	2e-16	1e-13	13 x 42 elongation factor Tu GTP binding domain containing 2 [Source:HGNC Symbol;Acc:HGNC:10000]
8	FAM195B	-1.92	2e-16	1e-13	50 x 45 family with sequence similarity 195, member B [Source:HGNC Symbol;Acc:HGNC:10000]
9	GTF2A2	-2.44	2e-16	1e-13	45 x 49 general transcription factor IIA, 2, 12kDa [Source:HGNC Symbol;Acc:HGNC:10000]
10	JKAMP	-1.79	2e-16	1e-13	29 x 50 JNK1/MAPK8-associated membrane protein [Source:HGNC Symbol;Acc:HGNC:10000]
11	LMAN2	-1.83	2e-16	1e-13	13 x 50 lectin, mannose-binding 2 [Source:HGNC Symbol;Acc:HGNC:10000]
12	LSM7	-1.76	2e-16	1e-13	2 x 38 LSM7 homolog, U6 small nuclear RNA associated (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:10000]
13	MORN2	-1.78	2e-16	1e-13	47 x 37 MORN repeat containing 2 [Source:HGNC Symbol;Acc:HGNC:10000]
14	MRPL20	-1.88	2e-16	1e-13	3 x 36 mitochondrial ribosomal protein L20 [Source:HGNC Symbol;Acc:HGNC:10000]
15	MRPL27	-2.04	2e-16	1e-13	4 x 38 mitochondrial ribosomal protein L27 [Source:HGNC Symbol;Acc:HGNC:10000]
16	NAPA	-1.99	2e-16	1e-13	20 x 49 N-ethylmaleimide-sensitive factor attachment protein, alpha [Source:HGNC Symbol;Acc:HGNC:10000]
17	NDUFB7	-2.18	2e-16	1e-13	5 x 36 NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 11kDa [Source:HGNC Symbol;Acc:HGNC:10000]
18	NUCB2	-1.88	2e-16	1e-13	1 x 35 nucleobindin 2 [Source:HGNC Symbol;Acc:HGNC:8044]
19	PET100	-2.07	2e-16	1e-13	6 x 34 PET100 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:10000]
20	POLD2	-2.06	2e-16	1e-13	3 x 37 polymerase (DNA directed), delta 2, accessory subunit [Source:HGNC Symbol;Acc:HGNC:10000]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	5.57	0.002	833	GSEA C2DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
2	5.49	0.003	9020	Brain Overlap_fetal_midbrain_ReprPCWk
3	5.43	0.003	5940	Brain Overlap_fetal_midbrain_HetRpts
4	5.17	0.003	784	GSEA C2BUYAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
5	4.91	0.004	447	miRNA target-miR-130b
6	4.86	0.004	3897	Colon CaCes1_Colon
7	4.84	0.004	473	GSEA C2DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
8	4.8	0.004	2211	LymphomaOPP_Repetitive
9	4.78	0.004	214	GSEA C2CHEN_HOXA5_TARGETS_9HR_UP
10	4.75	0.004	138	miRNA target-miR-136
11	4.69	0.004	50	miRNA target-miR-487a
12	4.68	0.004	214	miRNA target-miR-548m
13	4.66	0.005	488	miRNA target-miR-107
14	4.47	0.005	367	GSEA C2MONNIER_POSTRADIATION_TUMOR_ESCAPE_UP
15	4.47	0.005	471	GSEA C2ENK_UV_RESPONSE_KERATINOCYTE_DN
16	4.41	0.005	493	GSEA C2MILI_PSEUDOPODIA_HAPTOTAXIS_UP
17	4.38	0.006	749	GSEA C2CUL_TCF21_TARGETS_2_DN
18	4.34	0.006	456	miRNA target-miR-130a
19	4.28	0.006	443	miRNA target-miR-19a
20	4.27	0.006	120	GSEA C2KARLSSON_TGFB1_TARGETS_UP
<i>Underexpressed</i>				
1	-11.99	1e-04	142	Glio WILLSCHER_GBM_Verhaak-CL_up (C)
2	-11.22	2e-04	550	GSEA C2GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
3	-10.58	2e-04	305	GSEA C2DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
4	-10.09	3e-04	96	GSEA C2CROONQUIST_IL6_DEPRIVATION_DN
5	-9.99	3e-04	309	GSEA C2GOLDRATH_ANTIGEN_RESPONSE
6	-9.93	3e-04	139	GSEA C2ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
7	-9.88	3e-04	110	GSEA C2WHITEFORD_PEDIATRIC_CANCER_MARKERS
8	-9.84	3e-04	99	GSEA C2BURTON_ADIPOGENESIS_3
9	-9.8	3e-04	72	GSEA C2CROONQUIST_NRAS_SIGNALING_DN
10	-9.65	3e-04	116	GSEA C2MISSIAGLIA_REGULATED_BY_METHYLATION_DN
11	-9.53	3e-04	242	GSEA C2OBAYASHI_EGFR_SIGNALING_24HR_DN
12	-9.29	4e-04	54	GSEA C2KANG_DOXORUBICIN_RESISTANCE_UP
13	-9.18	1e-02	16	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
14	-9.03	4e-04	171	GSEA C2SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_UP
15	-8.99	4e-04	162	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP
16	-8.98	4e-04	700	GSEA C2MARSON_BOUND_BY_E2F4_UNSTIMULATED
17	-8.6	5e-04	144	GSEA C2BENPORATH_PROLIFERATION
18	-8.59	5e-04	197	HM HALLMARK_E2F_TARGETS
19	-8.43	5e-04	327	GSEA C2BLUM_RESPONSE_TO_SALIRASIB_DN
20	-8.32	5e-04	145	GSEA C2CHANG_CYCLING_GENES



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Local Summary

%DE = 0.86
 # metagenes = 48
 # genes = 388
 # genes in genesets = 381

 # genes with $fdr < 0.1$ = 207 (204 + / 3 -)
 # genes with $fdr < 0.05$ = 171 (168 + / 3 -)
 # genes with $fdr < 0.01$ = 124 (123 + / 1 -)

<r> metagenes = 0.81

<r> genes = 0.15

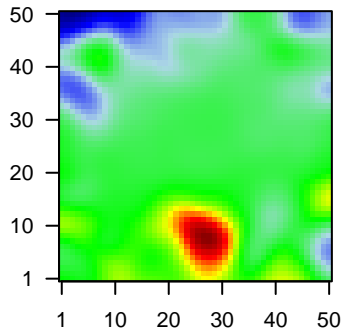
<FC> = 0.64

<shrinkage-t> = 9.89

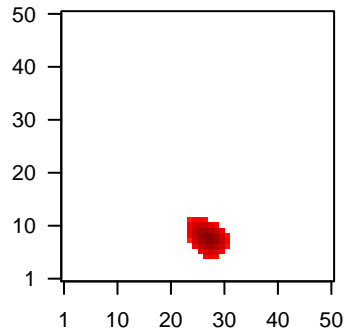
<p-value> = 0.01

<fdr> = 0.59

Profile



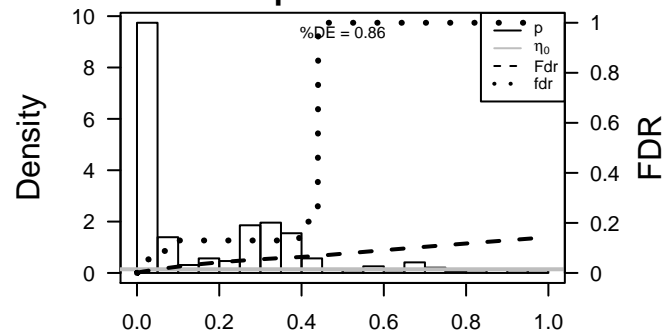
Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	CTNNB1	0.95	9e-14	3e-08	26 x 9 catenin (cadherin-associated protein), beta 1, 88kDa [Source:HGNC Symbol;Acc:HGNC:1034]
2	GPR82	1.95	6e-10	5e-08	24 x 9 G protein-coupled receptor 82 [Source:HGNC Symbol;Acc:HGNC:1034]
3	TRIM52	1.9	2e-09	1e-06	28 x 6 tripartite motif containing 52 [Source:HGNC Symbol;Acc:HGNC:1034]
4	CRYBA1	1.75	3e-08	1e-06	27 x 9 crystallin, beta A1 [Source:HGNC Symbol;Acc:HGNC:2394]
5	PIGA	1.73	4e-08	3e-06	25 x 10 phosphatidylinositol glycan anchor biosynthesis, class A [Source:HGNC Symbol;Acc:HGNC:1034]
6	ZNF436	1.67	1e-07	3e-06	28 x 9 zinc finger protein 436 [Source:HGNC Symbol;Acc:HGNC:2034]
7	STON1-GTF2A1L readthrough	1.64	2e-07	3e-06	29 x 8 STON1-GTF2A1L readthrough [Source:HGNC Symbol;Acc:HGNC:2034]
8	AC004076.9	1.62	3e-07	3e-06	25 x 10
9	TIAM2	1.62	3e-07	3e-06	26 x 10 T-cell lymphoma invasion and metastasis 2 [Source:HGNC Symbol;Acc:HGNC:1034]
10	OGN	1.59	4e-07	3e-06	29 x 9 osteoglycin [Source:HGNC Symbol;Acc:HGNC:8126]
11	C10orf131	1.59	5e-07	3e-06	28 x 7 chromosome 10 open reading frame 131 [Source:HGNC Symbol;Acc:HGNC:1034]
12	PMP2	1.57	7e-07	3e-06	27 x 9 peripheral myelin protein 2 [Source:HGNC Symbol;Acc:HGNC:1034]
13	SPPL2A	1.56	7e-07	3e-06	26 x 10 signal peptide peptidase like 2A [Source:HGNC Symbol;Acc:HGNC:1034]
14	BTBD18	1.56	7e-07	3e-06	29 x 7 BTB (POZ) domain containing 18 [Source:HGNC Symbol;Acc:HGNC:1034]
15	ZNF235	1.56	8e-07	3e-06	31 x 8 zinc finger protein 235 [Source:HGNC Symbol;Acc:HGNC:1234]
16	KIF7	1.56	8e-07	3e-06	29 x 7 kinesin family member 7 [Source:HGNC Symbol;Acc:HGNC:1034]
17	RGS5	1.55	8e-07	3e-06	26 x 6 regulator of G-protein signaling 5 [Source:HGNC Symbol;Acc:HGNC:1034]
18	STX19	1.55	8e-07	7e-06	27 x 10 syntaxin 19 [Source:HGNC Symbol;Acc:HGNC:19300]
19	KCNJ13	1.54	1e-06	7e-06	24 x 12 potassium channel, inwardly rectifying subfamily J, member 1 [Source:HGNC Symbol;Acc:HGNC:1034]
20	WDR19	1.54	1e-06	2e-05	27 x 10 WD repeat domain 19 [Source:HGNC Symbol;Acc:HGNC:1834]

p-values



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Local Summary

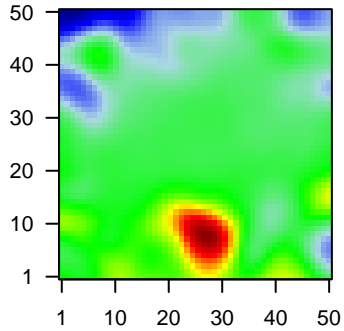
%DE = 0.83
 # metagenes = 33
 # genes = 527
 # genes in genesets = 525

 # genes with $fdr < 0.1$ = 326 (47 + / 279 -)
 # genes with $fdr < 0.05$ = 232 (32 + / 200 -)
 # genes with $fdr < 0.01$ = 124 (13 + / 111 -)

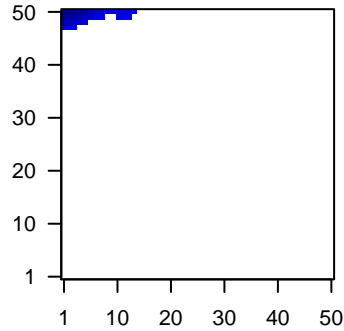
$\langle r \rangle$ metagenes = 0.86
 $\langle r \rangle$ genes = 0.2

 $\langle FC \rangle = -0.47$
 $\langle \text{shrinkage-t} \rangle = -7.76$
 $\langle p\text{-value} \rangle = 0.01$
 $\langle fdr \rangle = 0.64$

Profile



Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	ARL6IP1	-1.61	2e-16	5e-15	9 x 50 ADP-ribosylation factor-like 6 interacting protein 1 [Source:H
2	CALM1	-2.18	2e-16	5e-15	12 x 50 calmodulin 1 (phosphorylase kinase, delta) [Source:HGNC S]
3	LMAN2	-1.83	2e-16	5e-15	13 x 50 lectin, mannose-binding 2 [Source:HGNC Symbol;Acc:HGNC
4	TIMM21	-1.79	2e-16	5e-15	14 x 50 translocase of inner mitochondrial membrane 21 homolog (ye
5	NASP	-1.7	1e-13	6e-12	1 x 48 nuclear autoantigenic sperm protein (histone-binding) [Sourc
6	TUBG1	-1.69	1e-13	2e-11	2 x 49 tubulin, gamma 1 [Source:HGNC Symbol;Acc:HGNC:12417]
7	STMN1	-0.92	6e-13	2e-11	5 x 50 stathmin 1 [Source:HGNC Symbol;Acc:HGNC:6510]
8	PDCD10	-1.66	8e-13	2e-11	13 x 50 programmed cell death 10 [Source:HGNC Symbol;Acc:HGNC
9	TMEM97	-1.66	9e-13	3e-10	1 x 48 transmembrane protein 97 [Source:HGNC Symbol;Acc:HGNC
10	PCNA	-1.64	4e-12	8e-10	2 x 50 proliferating cell nuclear antigen [Source:HGNC Symbol;Acc:I
11	CDKN3	-1.59	1e-11	5e-09	6 x 50 cyclin-dependent kinase inhibitor 3 [Source:HGNC Symbol;A
12	GUCD1	-1.59	9e-11	5e-09	1 x 47 guanylyl cyclase domain containing 1 [Source:HGNC Symbol
13	HMG2	-0.99	2e-10	5e-09	8 x 50 high mobility group nucleosomal binding domain 2 [Source:Hi
14	COMMD4	-1.56	3e-10	5e-09	11 x 50 COMM domain containing 4 [Source:HGNC Symbol;Acc:HGNC
15	RRM1	-1.58	3e-10	5e-09	2 x 50 ribonucleotide reductase M1 [Source:HGNC Symbol;Acc:HGNC
16	MCM4	-1.58	3e-10	6e-08	1 x 50 minichromosome maintenance complex component 4 [Source:HGNC
17	TK1	-1.55	1e-09	4e-07	4 x 50 thymidine kinase 1, soluble [Source:HGNC Symbol;Acc:HGNC
18	YEATS4	-1.52	6e-09	4e-06	1 x 47 YEATS domain containing 4 [Source:HGNC Symbol;Acc:HGNC
19	RAB34	-1.44	1e-07	4e-06	13 x 50 RAB34, member RAS oncogene family [Source:HGNC Symb
20	H2AFV	-1.44	1e-07	4e-06	8 x 50 H2A histone family, member V [Source:HGNC Symbol;Acc:Hi

p-values

