

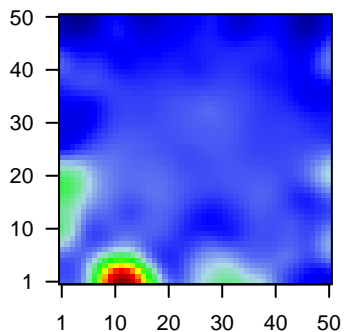
H5_mel

Global Summary

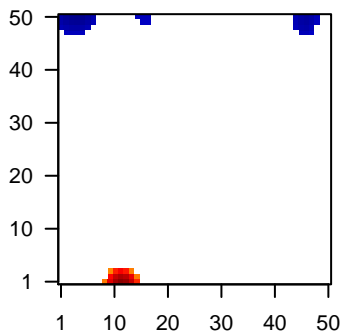
%DE = 0.21
 # genes with fdr < 0.2 = 2775 (1599 + / 1176 -)
 # genes with fdr < 0.1 = 2263 (1324 + / 939 -)
 # genes with fdr < 0.05 = 1792 (1066 + / 726 -)
 # genes with fdr < 0.01 = 1127 (671 + / 456 -)
 # genes in genesets = 14839

<FC> = 0
 <shrinkage-t> = -0.05
 <p-value> = 0.07
 <fdr> = 0.79

Profile



Regulated Spots

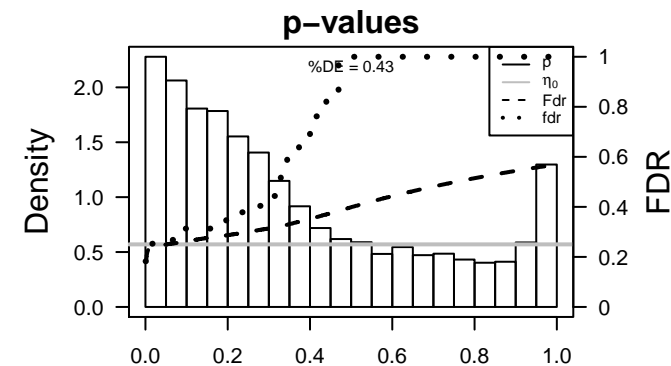
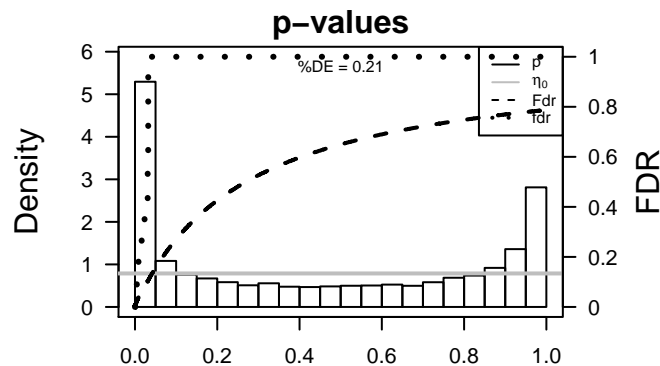


Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	ACTL6A	-1.47	2e-16	7e-14	4 x 50 actin-like 6A [Source:HGNC Symbol;Acc:HGNC:24124]
2	APEH	-1.56	2e-16	7e-14	1 x 42 acylaminoacyl-peptidase [Source:HGNC Symbol;Acc:HGNC:24125]
3	ATRX	-1.18	2e-16	7e-14	43 x 7 alpha thalassemia/mental retardation syndrome X-linked [Source:HGNC Symbol;Acc:HGNC:24126]
4	BUB3	-1.17	2e-16	7e-14	7 x 48 BUB3 mitotic checkpoint protein [Source:HGNC Symbol;Acc:HGNC:24127]
5	C17orf62	-1.78	2e-16	7e-14	18 x 50 chromosome 17 open reading frame 62 [Source:HGNC Symbol;Acc:HGNC:24128]
6	C4orf3	-1.92	2e-16	7e-14	44 x 49 chromosome 4 open reading frame 3 [Source:HGNC Symbol;Acc:HGNC:24129]
7	CFAP20	-1.62	2e-16	7e-14	40 x 50 cilia and flagella associated protein 20 [Source:HGNC Symbol;Acc:HGNC:24130]
8	EIF4EBP1	-1.64	2e-16	7e-14	2 x 43 eukaryotic translation initiation factor 4E binding protein 1 [Source:HGNC Symbol;Acc:HGNC:24131]
9	EIF5	-1.25	2e-16	7e-14	21 x 50 eukaryotic translation initiation factor 5 [Source:HGNC Symbol;Acc:HGNC:24132]
10	EXOSC8	-1.71	2e-16	7e-14	1 x 50 exosome component 8 [Source:HGNC Symbol;Acc:HGNC:24133]
11	FDPS	-1.05	2e-16	7e-14	12 x 44 farnesyl diphosphate synthase [Source:HGNC Symbol;Acc:HGNC:24134]
12	GNL3	-1.53	2e-16	7e-14	47 x 42 guanine nucleotide binding protein-like 3 (nucleolar) [Source:HGNC Symbol;Acc:HGNC:24135]
13	HDAC2	-1.42	2e-16	7e-14	1 x 45 histone deacetylase 2 [Source:HGNC Symbol;Acc:HGNC:24136]
14	HECTD1	-1.66	2e-16	7e-14	40 x 7 HECT domain containing E3 ubiquitin protein ligase 1 [Source:HGNC Symbol;Acc:HGNC:24137]
15	HERPUD1	1.02	2e-16	7e-14	50 x 42 homocysteine-inducible, endoplasmic reticulum stress-inducible protein 1 [Source:HGNC Symbol;Acc:HGNC:24138]
16	HSPA8	-0.88	2e-16	7e-14	49 x 50 heat shock 70kDa protein 8 [Source:HGNC Symbol;Acc:HGNC:24139]
17	IARS	-1.81	2e-16	7e-14	16 x 50 isoleucyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:24140]
18	MRPL17	-1.77	2e-16	7e-14	1 x 46 mitochondrial ribosomal protein L17 [Source:HGNC Symbol;Acc:HGNC:24141]
19	MRPL3	-1.84	2e-16	7e-14	50 x 37 mitochondrial ribosomal protein L3 [Source:HGNC Symbol;Acc:HGNC:24142]
20	NOP16	-1.66	2e-16	7e-14	1 x 38 NOP16 nucleolar protein [Source:HGNC Symbol;Acc:HGNC:24143]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	4.58	0.005	205	GSEA C2MCBRYAN_PUBERTAL_BREAST_4_5WK_UP
2	4.57	0.005	995	GSEA C2SOBERT_OLIGODENDROCYTE_DIFFERENTIATION_DN
3	4.47	0.005	3396	Lymphoid14OPP_Repressed
4	4.31	0.006	148	HM HALLMARK_KRAS_SIGNALING_UP
5	3.96	0.008	730	GSEA C2RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_UP
6	3.95	0.008	11	BP fatty acid beta-oxidation using acyl-CoA oxidase
7	3.9	0.008	622	GSEA C2LEE_BMP2_TARGETS_UP
8	3.78	0.009	210	GSEA C2WINTER_HYPOXIA_METAGENE
9	3.73	0.009	2188	Lymphoid14OPP_Poised_promoter
10	3.71	0.010	356	GSEA C2DELYS_THYROID_CANCER_UP
11	3.71	0.010	74	GSEA C2SWEET_KRAS_ONCOGENIC_SIGNATURE
12	3.62	0.010	2142	Colon CancerPC_Colon
13	3.61	0.010	15	GSEA C2BOYVAULT_LIVER_CANCER_SUBCLASS_G56_DN
14	3.57	0.011	116	GSEA C2RODRIGUES_DCC_TARGETS_DN
15	3.53	0.011	7	GSEA C2REACTOME_ENDOSOMAL_VACUOLAR_PATHWAY
16	3.51	0.011	1889	Colon CancerPC_Colon
17	3.51	0.011	280	GSEA C2TORCHIA_TARGETS_OF_EWSR1_FL11_FUSION_DN
18	3.51	0.011	79	GSEA C2ST_INTEGRIN_SIGNALING_PATHWAY
19	3.38	0.013	8	GSEA C2NADELLA_PRKAR1A_TARGETS_DN
20	3.38	0.013	7	GSEA C2KANG_CISPLATIN_RESISTANCE_DN
<i>Underexpressed</i>				
1	-9.18	4e-04	242	GSEA C2KOBAYASHI_EGFR_SIGNALING_24HR_DN
2	-8.99	4e-04	724	GSEA C2PUJANA_CHEK2_PCC_NETWORK
3	-8.35	5e-04	700	GSEA C2MARSON_BOUND_BY_E2F4_UNSTIMULATED
4	-8.27	6e-04	1251	GSEA C2DODD_NASOPHARYNGEAL_CARCINOMA_DN
5	-7.74	7e-04	834	GSEA C2LEE_BMP2_TARGETS_DN
6	-7.63	8e-04	278	GSEA C2MANALO_HYPOXIA_DN
7	-7.62	8e-04	197	HM HALLMARK_E2F_TARGETS
8	-7.59	8e-04	142	Glio WILLSCHEER_GBM_Verhaak-CL_up (C)
9	-7.45	8e-04	267	GSEA C2ZHANG_TLX_TARGETS_60HR_DN
10	-7.39	9e-04	188	HM HALLMARK_MYC_TARGETS_V1
11	-7.38	9e-04	550	GSEA C2SOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
12	-7.35	9e-04	157	GSEA C2SCHLOSSER_MYC_TARGETS_REPRESSED_BY_SERUM
13	-7.32	9e-04	305	GSEA C2DUTERTRE_ESTRADIOL_RESPONSE_24HR_UP
14	-7.31	9e-04	756	GSEA C2VEL_MYCN_TARGETS_WITH_E_BOX
15	-7.25	9e-04	85	GSEA C2REACTOME_MITOTIC_PROMETAPHASE
16	-7.07	1e-03	124	GSEA C2ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR
17	-6.98	1e-03	312	GSEA C2WONG_EMBRYONIC_STEM_CELL_CORE
18	-6.96	1e-03	505	GSEA C2BERENJENO_TRANSFORMED_BY_RHOA_UP
19	-6.8	1e-03	663	CC chromosome
20	-6.75	1e-03	99	GSEA C2BURTON_ADIPOGENESIS_3



H5_mel

Local Summary

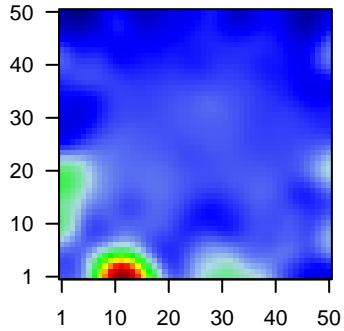
%DE = 0.99
 # metagenes = 18
 # genes = 275
 # genes in genesets = 271

 # genes with $fdr < 0.1$ = 270 (270 + / 0 -)
 # genes with $fdr < 0.05$ = 270 (270 + / 0 -)
 # genes with $fdr < 0.01$ = 263 (263 + / 0 -)

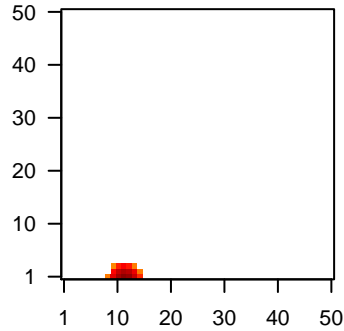
$\langle r \rangle$ metagenes = 0.89
 $\langle r \rangle$ genes = 0.12

 $\langle FC \rangle$ = 1.1
 $\langle \text{shrinkage-t} \rangle$ = 16.74
 $\langle p\text{-value} \rangle$ = 0
 $\langle fdr \rangle$ = 0.08

Profile



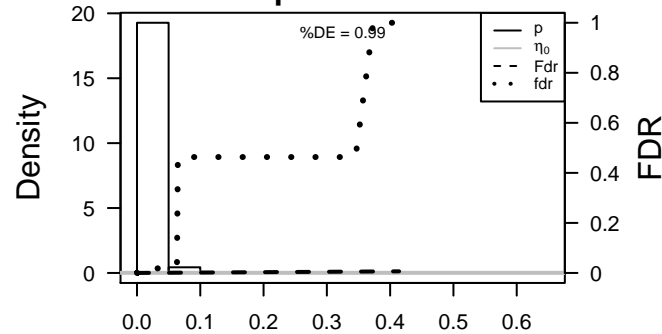
Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	ZNF483	2.09	4e-16	1e-14	12 x 1 zinc finger protein 483 [Source:HGNC Symbol;Acc:HGNC:23
2	C1orf111	2.02	6e-15	7e-14	12 x 1 chromosome 1 open reading frame 111 [Source:HGNC Synt
3	MUTYH	1.96	3e-14	2e-13	15 x 1 mutY homolog [Source:HGNC Symbol;Acc:HGNC:7527]
4	SEPP1	1.92	1e-13	1e-12	12 x 1 selenoprotein P, plasma, 1 [Source:HGNC Symbol;Acc:HGNC
5	PIGL	1.84	1e-12	1e-12	12 x 1 phosphatidylinositol glycan anchor biosynthesis, class L [Sou
6	FGFBP2	1.83	1e-12	1e-12	12 x 1 fibroblast growth factor binding protein 2 [Source:HGNC Syml
7	ZNF77	1.83	2e-12	4e-12	12 x 1 zinc finger protein 77 [Source:HGNC Symbol;Acc:HGNC:131
8	TENM3	1.79	4e-12	4e-12	11 x 1 teneurin transmembrane protein 3 [Source:HGNC Symbol;Ac
9	BAX	1.78	5e-12	8e-12	12 x 1 BCL2-associated X protein [Source:HGNC Symbol;Acc:HGNC
10	ATP10B	1.76	8e-12	8e-12	14 x 1 ATPase, class V, type 10B [Source:HGNC Symbol;Acc:HGNC
11	PTPRU	1.75	1e-11	8e-12	13 x 1 protein tyrosine phosphatase, receptor type, U [Source:HGNC
12	DTNB	1.75	1e-11	1e-11	9 x 1 dystrobrevin, beta [Source:HGNC Symbol;Acc:HGNC:3058]
13	FPGS	1.74	2e-11	6e-11	9 x 1 folylpolyglutamate synthase [Source:HGNC Symbol;Acc:HGNC
14	INTS1	1.69	6e-11	6e-11	13 x 1 integrator complex subunit 1 [Source:HGNC Symbol;Acc:HGNC
15	ANKH	1.68	8e-11	6e-11	12 x 1 ANKH inorganic pyrophosphate transport regulator [Source:H
16	C3orf67	1.67	9e-11	8e-11	12 x 1 chromosome 3 open reading frame 67 [Source:HGNC Symbc
17	NICN1	1.66	1e-10	1e-10	13 x 1 nicotin 1 [Source:HGNC Symbol;Acc:HGNC:18317]
18	SLC9A8	1.64	2e-10	1e-10	10 x 1 solute carrier family 9, subfamily A (NHE8, cation proton anti
19	PLA2G16	1.64	2e-10	1e-10	12 x 1 phospholipase A2, group XVI [Source:HGNC Symbol;Acc:HG
20	YPEL2	1.63	2e-10	1e-10	15 x 1 yippee-like 2 (Drosophila) [Source:HGNC Symbol;Acc:HGNC

p-values



H5_mel

Local Summary

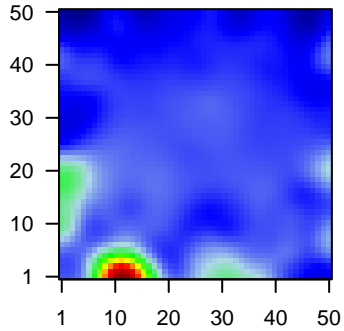
%DE = 0.75
 # metagenes = 24
 # genes = 348
 # genes in genesets = 347

 # genes with $fdr < 0.1$ = 172 (35 + / 137 -)
 # genes with $fdr < 0.05$ = 159 (33 + / 126 -)
 # genes with $fdr < 0.01$ = 81 (20 + / 61 -)

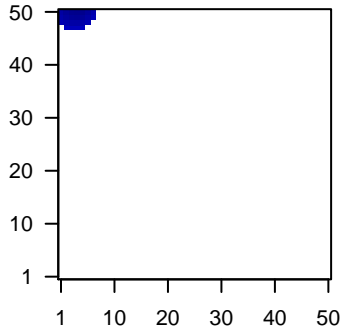
$\langle r \rangle$ metagenes = 0.93
 $\langle r \rangle$ genes = 0.3

 $\langle FC \rangle$ = -0.31
 $\langle \text{shrinkage-t} \rangle$ = -4.96
 $\langle p\text{-value} \rangle$ = 0.01
 $\langle fdr \rangle$ = 0.59

Profile



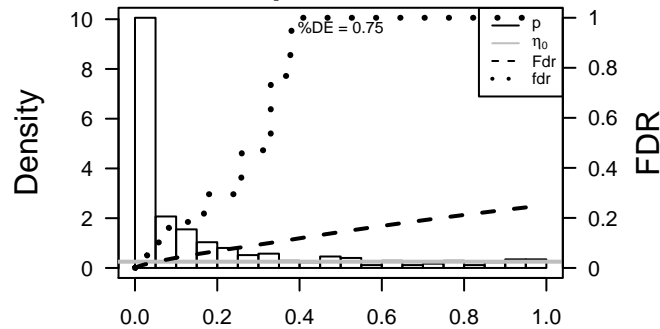
Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	ACTL6A	-1.47	2e-16	4e-15	4 x 50 actin-like 6A [Source:HGNC Symbol;Acc:HGNC:24124]
2	EXOSC8	-1.71	2e-16	4e-15	1 x 50 exosome component 8 [Source:HGNC Symbol;Acc:HGNC:17
3	NUP107	-1.49	2e-16	4e-15	2 x 48 nucleoporin 107kDa [Source:HGNC Symbol;Acc:HGNC:2991
4	PCNA	-1.64	2e-16	4e-15	2 x 50 proliferating cell nuclear antigen [Source:HGNC Symbol;Acc:l
5	PTTG1	-1.88	2e-16	4e-15	7 x 50 pituitary tumor-transforming 1 [Source:HGNC Symbol;Acc:Hf
6	SMC4	-1.49	3e-12	1e-09	5 x 50 structural maintenance of chromosomes 4 [Source:HGNC Sy
7	MTHFD2	-1.46	2e-11	3e-09	3 x 47 methylenetetrahydrofolate dehydrogenase (NADP+ depend
8	HIST1H4C	-0.68	6e-11	3e-08	5 x 49 histone cluster 1, H4c [Source:HGNC Symbol;Acc:HGNC:47f
9	CCP110	1.62	4e-10	4e-08	3 x 50 centriolar coiled coil protein 110kDa [Source:HGNC Symbol;/
10	LBR	-1.39	1e-09	4e-08	7 x 50 lamin B receptor [Source:HGNC Symbol;Acc:HGNC:6518]
11	TYMS	-1.37	2e-09	4e-08	3 x 50 thymidylate synthetase [Source:HGNC Symbol;Acc:HGNC:12
12	HAT1	-1.2	2e-09	1e-07	1 x 50 histone acetyltransferase 1 [Source:HGNC Symbol;Acc:HGNC
13	CEP112	1.53	3e-09	1e-07	1 x 48 centrosomal protein 112kDa [Source:HGNC Symbol;Acc:HGI
14	MAD2L1	-1.35	4e-09	1e-06	5 x 50 MAD2 mitotic arrest deficient-like 1 (yeast) [Source:HGNC S;
15	EMP2	-1.31	3e-08	1e-06	2 x 50 epithelial membrane protein 2 [Source:HGNC Symbol;Acc:HC
16	MCM7	-1.29	4e-08	1e-06	2 x 50 minichromosome maintenance complex component 7 [Sourc
17	HMGB2	-1.28	5e-08	2e-05	5 x 50 high mobility group box 2 [Source:HGNC Symbol;Acc:HGNC:
18	CENPK	-1.22	5e-07	2e-05	3 x 50 centromere protein K [Source:HGNC Symbol;Acc:HGNC:294
19	CKB	-1.21	6e-07	2e-05	2 x 47 creatine kinase, brain [Source:HGNC Symbol;Acc:HGNC:199
20	CEP97	-1.2	7e-07	2e-05	2 x 47 centrosomal protein 97kDa [Source:HGNC Symbol;Acc:HGNC

p-values



H5_mel

Local Summary

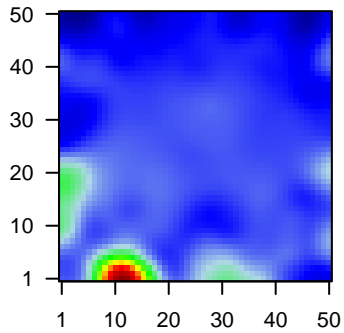
%DE = 0.7
 # metagenes = 17
 # genes = 189
 # genes in genesets = 188

 # genes with $fdr < 0.1$ = 99 (18 + / 81 -)
 # genes with $fdr < 0.05$ = 84 (15 + / 69 -)
 # genes with $fdr < 0.01$ = 52 (8 + / 44 -)

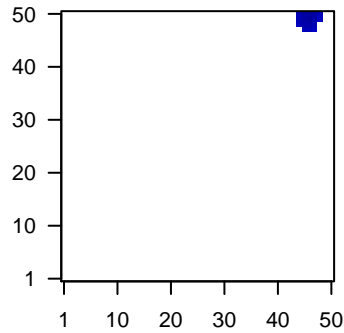
$\langle r \rangle$ metagenes = 0.93
 $\langle r \rangle$ genes = 0.1

 $\langle FC \rangle$ = -0.35
 $\langle \text{shrinkage-t} \rangle$ = -6.01
 $\langle p\text{-value} \rangle$ = 0
 $\langle fdr \rangle$ = 0.55

Profile



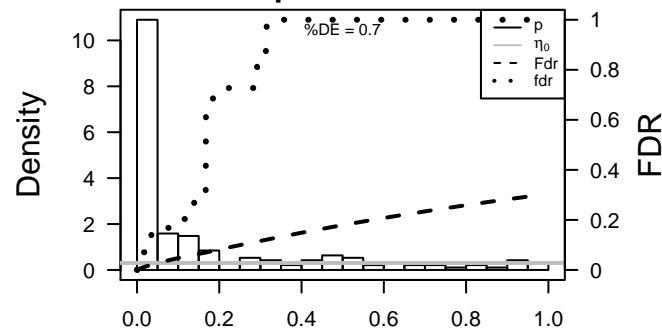
Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	C4orf3	-1.92	2e-16	6e-15	44 x 49 chromosome 4 open reading frame 3 [Source:HGNC Symbol]
2	RHOC	-1.94	2e-16	6e-15	47 x 50 ras homolog family member C [Source:HGNC Symbol;Acc:HGNC:10000]
3	GMFB	-1.61	4e-16	3e-12	46 x 49 glia maturation factor, beta [Source:HGNC Symbol;Acc:HGNC:10000]
4	CDC123	-1.55	5e-14	7e-12	46 x 50 cell division cycle 123 [Source:HGNC Symbol;Acc:HGNC:10000]
5	TMEM219	-1.54	2e-13	8e-11	45 x 50 transmembrane protein 219 [Source:HGNC Symbol;Acc:HGNC:10000]
6	SARAF	-1.51	2e-12	2e-09	44 x 48 store-operated calcium entry-associated regulatory factor [Source:HGNC Symbol;Acc:HGNC:10000]
7	PSMF1	-0.99	4e-11	9e-09	45 x 50 proteasome (prosome, macropain) inhibitor subunit 1 (PI31) [Source:HGNC Symbol;Acc:HGNC:10000]
8	PAM16	-1.43	2e-10	7e-07	45 x 50 presequence translocase-associated motor 16 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:10000]
9	PRPSAP2	-1.32	2e-08	7e-07	47 x 50 phosphoribosyl pyrophosphate synthetase-associated protein 2 [Source:HGNC Symbol;Acc:HGNC:10000]
10	SKIV2L2	-1.31	3e-08	7e-07	46 x 49 superkiller viralicidal activity 2-like 2 (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:10000]
11	PDK4	-1.3	4e-08	3e-06	47 x 50 pyruvate dehydrogenase kinase, isozyme 4 [Source:HGNC Symbol;Acc:HGNC:10000]
12	MPHOSPH6	-1.26	9e-08	4e-05	47 x 50 M-phase phosphoprotein 6 [Source:HGNC Symbol;Acc:HGNC:10000]
13	POP5	-1.19	1e-06	4e-05	46 x 49 processing of precursor 5, ribonuclease P/MRP subunit (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:10000]
14	NOP10	-0.59	2e-06	4e-05	48 x 50 NOP10 ribonucleoprotein [Source:HGNC Symbol;Acc:HGNC:10000]
15	XPO6	-1.17	3e-06	4e-05	46 x 50 exportin 6 [Source:HGNC Symbol;Acc:HGNC:19733]
16	SNAP47	-1.17	4e-06	4e-05	44 x 50 synaptosomal-associated protein, 47kDa [Source:HGNC Symbol;Acc:HGNC:10000]
17	RAB10	-1.02	4e-06	4e-05	45 x 48 RAB10, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:10000]
18	EXOSC1	-1.16	5e-06	7e-05	46 x 50 exosome component 1 [Source:HGNC Symbol;Acc:HGNC:10000]
19	ARHGEF2	1.17	6e-06	1e-04	45 x 50 Rho/Rac guanine nucleotide exchange factor (GEF) 2 [Source:HGNC Symbol;Acc:HGNC:10000]
20	NDUFAF2	-1.12	1e-05	1e-04	48 x 50 NADH dehydrogenase (ubiquinone) complex I, assembly factor 2 [Source:HGNC Symbol;Acc:HGNC:10000]

p-values



H5_mel

Local Summary

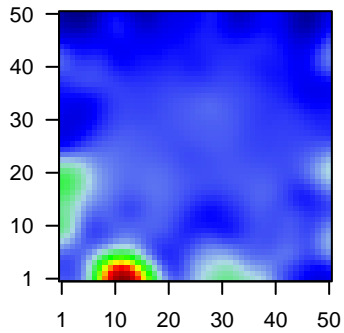
%DE = 0.68
 # metagenes = 5
 # genes = 83
 # genes in genesets = 83

 # genes with $fdr < 0.1$ = 33 (6 + / 27 -)
 # genes with $fdr < 0.05$ = 32 (6 + / 26 -)
 # genes with $fdr < 0.01$ = 22 (4 + / 18 -)

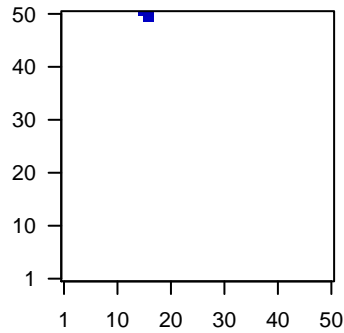
$\langle r \rangle$ metagenes = 0.99
 $\langle r \rangle$ genes = 0.11

 $\langle FC \rangle$ = -0.32
 $\langle \text{shrinkage-t} \rangle$ = -5.65
 $\langle p\text{-value} \rangle$ = 0.01
 $\langle fdr \rangle$ = 0.59

Profile



Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	IARS	-1.81	2e-16	6e-15	16 x 50 isoleucyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:10000]
2	LYRM4	-1.61	7e-16	5e-08	16 x 50 LYR motif containing 4 [Source:HGNC Symbol;Acc:HGNC:21000]
3	IPO5	-1.37	2e-09	1e-07	16 x 49 importin 5 [Source:HGNC Symbol;Acc:HGNC:6402]
4	ZNF346	1.5	6e-09	3e-05	15 x 50 zinc finger protein 346 [Source:HGNC Symbol;Acc:HGNC:16000]
5	KCTD6	1.25	1e-06	8e-05	16 x 50 potassium channel tetramerization domain containing 6 [Source:HGNC Symbol;Acc:HGNC:10000]
6	FASTKD3	-1.13	9e-06	8e-05	15 x 50 FAST kinase domains 3 [Source:HGNC Symbol;Acc:HGNC:20000]
7	FBXO22	-1.04	1e-05	8e-05	15 x 50 F-box protein 22 [Source:HGNC Symbol;Acc:HGNC:13593]
8	STT3A	-0.77	1e-05	8e-05	16 x 50 STT3A, subunit of the oligosaccharyltransferase complex (calnexin cycle)
9	DYM	-1.1	2e-05	8e-05	16 x 50 dymeclin [Source:HGNC Symbol;Acc:HGNC:21317]
10	PPM1G	-1.1	2e-05	2e-04	16 x 50 protein phosphatase, Mg2+/Mn2+ dependent, 1G [Source:HGNC Symbol;Acc:HGNC:10000]
11	RNF114	-0.84	3e-05	2e-04	16 x 50 ring finger protein 114 [Source:HGNC Symbol;Acc:HGNC:13000]
12	CNOT1	-0.65	3e-05	4e-04	15 x 50 CCR4-NOT transcription complex, subunit 1 [Source:HGNC Symbol;Acc:HGNC:10000]
13	PANK2	-1.05	5e-05	2e-03	17 x 50 pantothenate kinase 2 [Source:HGNC Symbol;Acc:HGNC:15000]
14	NDEL1	-0.99	1e-04	8e-03	15 x 50 nudE neurodevelopment protein 1-like 1 [Source:HGNC Symbol;Acc:HGNC:10000]
15	ICE2	-0.88	7e-04	8e-03	15 x 50 interactor of little elongation complex ELL subunit 2 [Source:HGNC Symbol;Acc:HGNC:10000]
16	COMMD5	-0.83	1e-03	8e-03	16 x 50 COMM domain containing 5 [Source:HGNC Symbol;Acc:HGNC:10000]
17	KLHL7	0.81	1e-03	8e-03	16 x 50 kelch-like family member 7 [Source:HGNC Symbol;Acc:HGNC:10000]
18	ZNF292	-0.8	2e-03	8e-03	15 x 50 zinc finger protein 292 [Source:HGNC Symbol;Acc:HGNC:18000]
19	LYRM1	-0.81	2e-03	8e-03	16 x 50 LYR motif containing 1 [Source:HGNC Symbol;Acc:HGNC:25000]
20	GMDS	0.79	2e-03	8e-03	15 x 50 GDP-mannose 4,6-dehydratase [Source:HGNC Symbol;Acc:HGNC:10000]

p-values

