

A10_mel

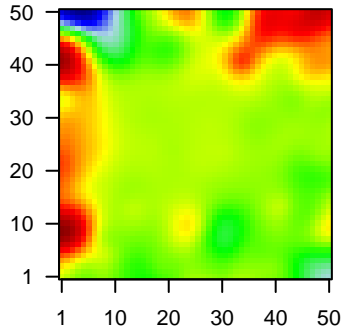
Global Summary

%DE = 0.2
 # genes with fdr < 0.2 = 2460 (1499 + / 961 -)
 # genes with fdr < 0.1 = 1921 (1189 + / 732 -)
 # genes with fdr < 0.05 = 1583 (974 + / 609 -)
 # genes with fdr < 0.01 = 1002 (609 + / 393 -)

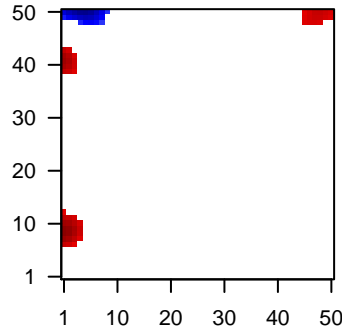
 # genes in genesets = 14839

<FC> = 0
 <shrinkage-t> = 0.05
 <p-value> = 0.1
 <fdr> = 0.8

Profile



Regulated Spots



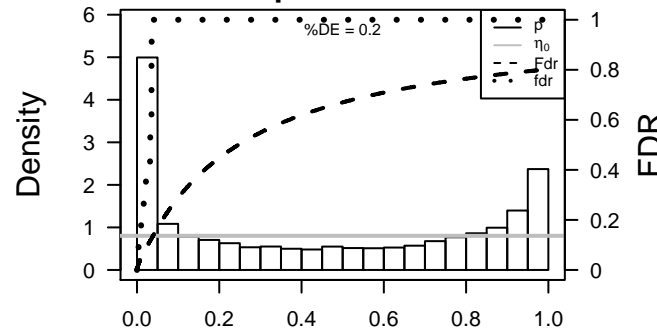
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description	Metagene
1	CDC42BPA	-1.78	2e-16	2e-13	50 x 38	CDC42 binding protein kinase alpha (DMPK-like) [Source:HGNC]
2	CDKN3	-1.65	2e-16	2e-13	6 x 50	cyclin-dependent kinase inhibitor 3 [Source:HGNC Symbol;A]
3	CERS2	-1.64	2e-16	2e-13	3 x 34	ceramide synthase 2 [Source:HGNC Symbol;Acc:HGNC:140]
4	COMMD4	-1.59	2e-16	2e-13	11 x 50	COMM domain containing 4 [Source:HGNC Symbol;Acc:HGNC:140]
5	DHX9	-1.63	2e-16	2e-13	9 x 45	DEAH (Asp-Glu-Ala-His) box helicase 9 [Source:HGNC Sy
6	EXOSC8	-1.71	2e-16	2e-13	1 x 50	exosome component 8 [Source:HGNC Symbol;Acc:HGNC:17
7	MRPL17	-1.58	2e-16	2e-13	1 x 46	mitochondrial ribosomal protein L17 [Source:HGNC Symbol;f
8	NFE2L2	-1.58	2e-16	2e-13	44 x 19	nuclear factor, erythroid 2-like 2 [Source:HGNC Symbol;Acc:
9	PCNA	-1.64	2e-16	2e-13	2 x 50	proliferating cell nuclear antigen [Source:HGNC Symbol;Acc:i
10	PMPCB	-1.58	2e-16	2e-13	33 x 50	peptidase (mitochondrial processing) beta [Source:HGNC Sy
11	POPDC2	2.06	2e-16	2e-13	1 x 9	popeye domain containing 2 [Source:HGNC Symbol;Acc:HGNC:140]
12	PTTG1	-1.49	2e-16	2e-13	7 x 50	pituitary tumor-transforming 1 [Source:HGNC Symbol;Acc:HGNC:140]
13	SAT1	-0.87	2e-16	2e-13	1 x 11	spermidine/spermine N1-acetyltransferase 1 [Source:HGNC
14	SRSF7	-1.3	2e-16	2e-13	7 x 42	serine/arginine-rich splicing factor 7 [Source:HGNC Symbol;f
15	TMEM138	-1.6	2e-16	2e-13	1 x 33	transmembrane protein 138 [Source:HGNC Symbol;Acc:HGNC:140]
16	UCP2	-1.62	2e-16	2e-13	2 x 46	uncoupling protein 2 (mitochondrial, proton carrier) [Source:H
17	KMT2E	-1.28	1e-15	5e-12	49 x 17	lysine (K)-specific methyltransferase 2E [Source:HGNC Syml
18	TUBB4B	-1.49	1e-15	5e-12	7 x 50	tubulin, beta 4B class IVb [Source:HGNC Symbol;Acc:HGNC
19	STT3A	-1.3	2e-15	2e-11	16 x 50	STT3A, subunit of the oligosaccharyltransferase complex (cal
20	MARS	-1.34	4e-15	9e-11	43 x 47	methionyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:140]

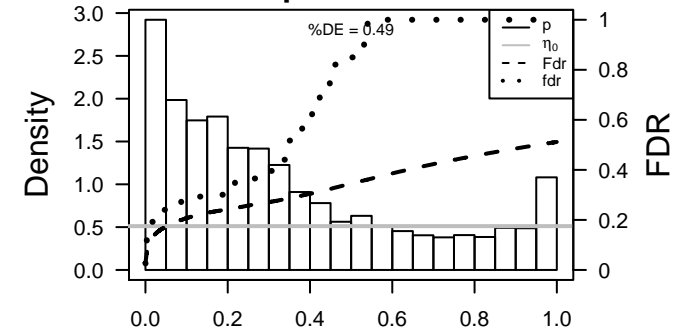
Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	8.87	4e-04	198	HM HALLMARK_OXIDATIVE_PHOSPHORYLATION
2	8.04	6e-04	368	GSEA C2STEIN_ESRRA_TARGETS_UP
3	7.87	7e-04	1468	CC mitochondrion
4	6.86	1e-03	592	MF oxidoreductase activity
5	6.73	1e-03	412	CC lysosome
6	6.55	1e-03	107	GSEA C2KEGG_OXIDATIVE_PHOSPHORYLATION
7	6.51	1e-03	213	GSEA C2WONG_MITOCHONDRIA_GENE_MODULE
8	6.5	1e-03	171	GSEA C2BURTON_ADIPOGENESIS_6
9	6.44	1e-03	401	CC mitochondrial inner membrane
10	6.39	1e-03	94	CC melanosome
11	6.38	1e-03	500	GSEA C2STEIN_ESRRA_TARGETS
12	6.36	2e-03	456	CC vacuole
13	6.3	2e-03	405	GSEA C2MOOTHA_HUMAN_MITODB_6_2002
14	6.21	2e-03	114	GSEA C2REACTOME_TCA_CYCLE_AND_RESPIRATORY_ELECTRON_T
15	6.18	2e-03	1126	GSEA C2BLALOCK_ALZHEIMERS_DISEASE_DN
16	6.13	2e-03	112	GSEA C2KEGG_LYSOSOME
17	6.03	2e-03	102	GSEA C2KEGG_PARKINSONS_DISEASE
18	5.93	2e-03	541	BP oxidation-reduction process
19	5.74	2e-03	142	GSEA C2KEGG_ALZHEIMERS_DISEASE
20	5.68	2e-03	85	GSEA C2MOOTHA_VOXPHOS
<i>Underexpressed</i>				
1	-15.95	4e-05	242	GSEA C2KOBAYASHI_EGFR_SIGNALING_24HR_DN
2	-15.74	4e-05	550	GSEA C2GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
3	-14.12	6e-05	305	GSEA C2DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
4	-13.63	7e-05	142	Glio WILLSCHER_GBM_Verhaak-CL_up (C
5	-13.56	8e-05	267	GSEA C2ZHANG_TLX_TARGETS_60HR_DN
6	-13.45	8e-05	145	GSEA C2ZHANG_CYCLING_GENES
7	-13.43	8e-05	327	GSEA C2BLUM_RESPONSE_TO_SALIRASIB_DN
8	-13.4	8e-05	197	HM HALLMARK_E2F_TARGETS
9	-12.75	1e-04	390	GSEA C2PUJANA_BRCA2_PCC_NETWORK
10	-12.72	1e-04	139	GSEA C2ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
11	-12.7	1e-04	124	GSEA C2ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR
12	-12.16	1e-04	96	GSEA C2CROONQUIST_IL6_DEPRIVATION_DN
13	-11.87	1e-04	270	GSEA C2BASAKI_YBX1_TARGETS_UP
14	-11.82	1e-04	89	GSEA C2MORI_IMMATURE_B_LYMPHOCYTE_DN
15	-11.76	1e-04	159	GSEA C2WINPENNINGKX_MELANOMA_METASTASIS_UP
16	-11.75	1e-04	1192	GSEA C2KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
17	-11.65	5e-03	16	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
18	-11.63	1e-04	72	GSEA C2CROONQUIST_NRAS_SIGNALING_DN
19	-11.33	2e-04	81	GSEA C2GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_DN
20	-11.33	2e-04	160	GSEA C2PUJANA_XPRSS_INT_NETWORK

p-values



p-values



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Local Summary

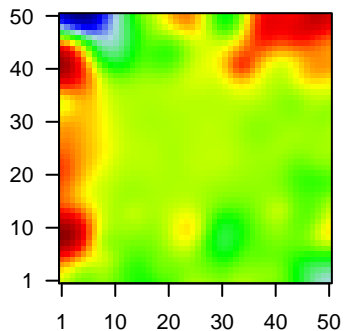
%DE = 0.68
 # metagenes = 23
 # genes = 308
 # genes in genesets = 306

 # genes with $fdr < 0.1$ = 168 (139 + / 29 -)
 # genes with $fdr < 0.05$ = 120 (101 + / 19 -)
 # genes with $fdr < 0.01$ = 78 (68 + / 10 -)

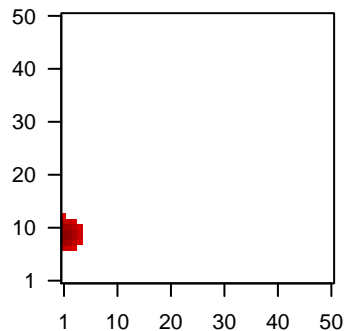
$\langle r \rangle$ metagenes = 0.92
 $\langle r \rangle$ genes = 0.11

 $\langle FC \rangle$ = 0.29
 $\langle \text{shrinkage-t} \rangle$ = 4.7
 $\langle p\text{-value} \rangle$ = 0.01
 $\langle fdr \rangle$ = 0.56

Profile



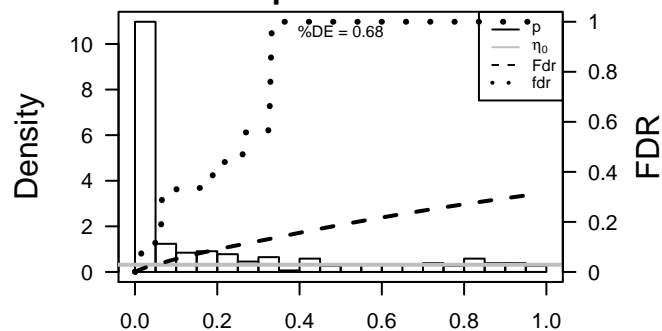
Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	POPODC2	2.06	2e-16	1e-14	1 x 9 popeye domain containing 2 [Source:HGNC Symbol;Acc:HGNC:1052]
2	SAT1	-0.87	2e-16	1e-14	1 x 11 spermidine/spermine N1-acetyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:1052]
3	AGA	1.46	1e-09	2e-07	1 x 7 aspartylglucosaminidase [Source:HGNC Symbol;Acc:HGNC:1052]
4	PLA1A	1.42	3e-09	4e-07	1 x 10 phospholipase A1 member A [Source:HGNC Symbol;Acc:HGNC:1052]
5	WDFY1	-1.23	7e-09	4e-06	1 x 12 WD repeat and FYVE domain containing 1 [Source:HGNC Symbol;Acc:HGNC:1052]
6	RDH14	1.27	1e-07	4e-06	4 x 9 retinol dehydrogenase 14 (all-trans/9-cis/11-cis) [Source:HGNC Symbol;Acc:HGNC:1052]
7	RAB27A	1.04	1e-07	4e-06	1 x 11 RAB27A, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:1052]
8	CAMTA2	1.26	1e-07	4e-06	1 x 8 calmodulin binding transcription activator 2 [Source:HGNC Symbol;Acc:HGNC:1052]
9	CFAP61	1.25	2e-07	1e-05	1 x 12 cilia and flagella associated protein 61 [Source:HGNC Symbol;Acc:HGNC:1052]
10	CD109	1.22	4e-07	1e-05	1 x 8 CD109 molecule [Source:HGNC Symbol;Acc:HGNC:21685]
11	BIN1	1.2	6e-07	1e-05	1 x 10 bridging integrator 1 [Source:HGNC Symbol;Acc:HGNC:1052]
12	DCT	0.69	8e-07	1e-05	1 x 11 dopachrome tautomerase [Source:HGNC Symbol;Acc:HGNC:1052]
13	ZDHHC16	1.18	8e-07	1e-05	1 x 7 zinc finger, DHHC-type containing 16 [Source:HGNC Symbol;Acc:HGNC:1052]
14	HAS2	1.18	9e-07	8e-05	1 x 10 hyaluronan synthase 2 [Source:HGNC Symbol;Acc:HGNC:48]
15	POLB	1.14	2e-06	8e-05	1 x 9 polymerase (DNA directed), beta [Source:HGNC Symbol;Acc:HGNC:1052]
16	TMEM150A	1.12	3e-06	8e-05	4 x 11 transmembrane protein 150A [Source:HGNC Symbol;Acc:HGNC:1052]
17	PIP5K1B	1.12	3e-06	8e-05	1 x 9 phosphatidylinositol-4-phosphate 5-kinase, type I, beta [Source:HGNC Symbol;Acc:HGNC:1052]
18	WDR81	1.1	4e-06	8e-05	2 x 12 WD repeat domain 81 [Source:HGNC Symbol;Acc:HGNC:261]
19	TXNDC16	1.09	6e-06	8e-05	3 x 11 thioredoxin domain containing 16 [Source:HGNC Symbol;Acc:HGNC:1052]
20	ADRBK2	1.08	6e-06	8e-05	1 x 10 adrenergic, beta, receptor kinase 2 [Source:HGNC Symbol;Acc:HGNC:1052]

p-values



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Local Summary

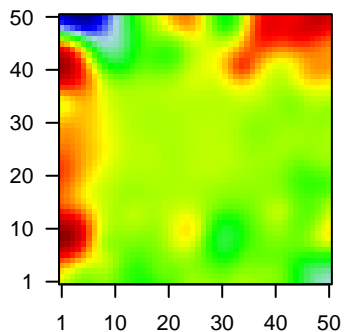
%DE = 0.85
 # metagenes = 14
 # genes = 213
 # genes in genesets = 212

 # genes with $fdr < 0.1$ = 146 (127 + / 19 -)
 # genes with $fdr < 0.05$ = 121 (105 + / 16 -)
 # genes with $fdr < 0.01$ = 92 (79 + / 13 -)

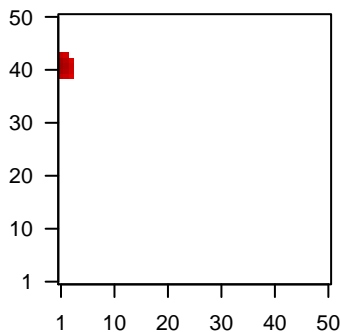
$\langle r \rangle$ metagenes = 0.98
 $\langle r \rangle$ genes = 0.19

 $\langle FC \rangle$ = 0.33
 $\langle \text{shrinkage-t} \rangle$ = 6.46
 $\langle p\text{-value} \rangle$ = 0
 $\langle fdr \rangle$ = 0.48

Profile



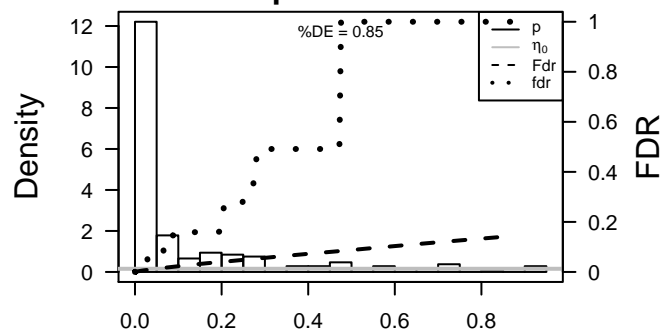
Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	NENF	1.49	5e-10	9e-09	1 x 42 neudesin neurotrophic factor [Source:HGNC Symbol;Acc:HGI
2	DLGAP1	1.49	6e-10	9e-09	1 x 40 discs, large (Drosophila) homolog-associated protein 1 [Sour
3	NARS2	0.59	9e-10	2e-07	1 x 42 asparaginyI-tRNA synthetase 2, mitochondrial (putative) [Sou
4	MITF	0.62	9e-09	2e-07	1 x 41 microphthalmia-associated transcription factor [Source:HGNC
5	EXOC3	0.55	2e-08	2e-07	1 x 42 exocyst complex component 3 [Source:HGNC Symbol;Acc:Hi
6	ARHGAP8	0.91	2e-08	4e-07	1 x 43 Rho GTPase activating protein 8 [Source:HGNC Symbol;Acc:
7	CAPG	1.32	4e-08	4e-07	1 x 43 capping protein (actin filament), gelsolin-like [Source:HGNC :
8	IFI35	1.31	5e-08	4e-06	3 x 41 interferon-induced protein 35 [Source:HGNC Symbol;Acc:HC
9	ST3GAL1	1.24	3e-07	4e-06	1 x 40 ST3 beta-galactoside alpha-2,3-sialyltransferase 1 [Source:
10	STARD10	1.23	3e-07	1e-05	1 x 40 STAR-related lipid transfer (START) domain containing 10 [Sc
11	CDK2	0.53	6e-07	3e-05	1 x 43 cyclin-dependent kinase 2 [Source:HGNC Symbol;Acc:HGN
12	ULK3	1.15	2e-06	3e-05	3 x 41 unc-51 like kinase 3 [Source:HGNC Symbol;Acc:HGNC:197
13	IDH3A	0.5	3e-06	3e-05	1 x 42 isocitrate dehydrogenase 3 (NAD+) alpha [Source:HGNC Syr
14	C10orf11	1.05	4e-06	3e-05	1 x 43 chromosome 10 open reading frame 11 [Source:HGNC Synt
15	STX7	0.73	7e-06	3e-05	1 x 42 syntaxin 7 [Source:HGNC Symbol;Acc:HGNC:11442]
16	TYR	0.54	7e-06	3e-05	1 x 42 tyrosinase [Source:HGNC Symbol;Acc:HGNC:12442]
17	IDH1	0.65	9e-06	3e-05	3 x 41 isocitrate dehydrogenase 1 (NADP+), soluble [Source:HGNC
18	LGALS3	0.94	9e-06	3e-05	1 x 43 lectin, galactoside-binding, soluble, 3 [Source:HGNC Symbol
19	APEH	0.79	9e-06	3e-05	1 x 42 acylaminoacyl-peptidase [Source:HGNC Symbol;Acc
20	DDRKG1	1.06	9e-06	3e-05	1 x 41 DDRGK domain containing 1 [Source:HGNC Symbol;Acc:HG

p-values



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Local Summary

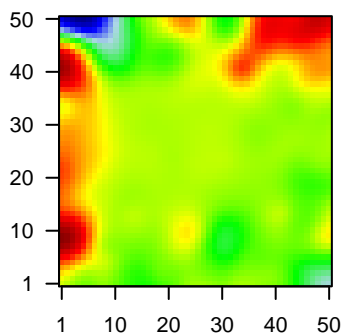
%DE = 0.69
 # metagenes = 16
 # genes = 263
 # genes in genesets = 262

 # genes with $fdr < 0.1$ = 123 (99 + / 24 -)
 # genes with $fdr < 0.05$ = 123 (99 + / 24 -)
 # genes with $fdr < 0.01$ = 60 (51 + / 9 -)

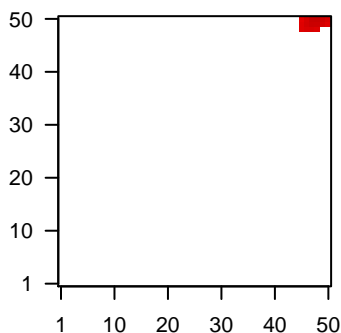
$\langle r \rangle$ metagenes = 0.92
 $\langle r \rangle$ genes = 0.09

 $\langle FC \rangle$ = 0.26
 $\langle \text{shrinkage-t} \rangle$ = 4.42
 $\langle p\text{-value} \rangle$ = 0.01
 $\langle fdr \rangle$ = 0.56

Profile



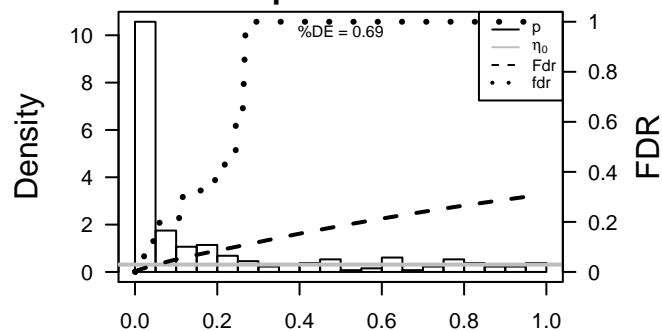
Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	SPATA20	1.59	3e-11	8e-07	50 x 49 spermatogenesis associated 20 [Source:HGNC Symbol;Acc:HGNC:10341]
2	ASL	1.36	1e-08	8e-07	50 x 50 argininosuccinate lyase [Source:HGNC Symbol;Acc:HGNC:7422]
3	SPRYD3	1.33	3e-08	8e-07	45 x 48 SPRY domain containing 3 [Source:HGNC Symbol;Acc:HGNC:10341]
4	ADPRHL2	1.32	4e-08	8e-07	49 x 50 ADP-ribosylhydrolase like 2 [Source:HGNC Symbol;Acc:HGNC:10341]
5	FARS2	1.32	4e-08	4e-06	45 x 50 phenylalanyl-tRNA synthetase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:10341]
6	MRPS28	-1.17	8e-08	4e-06	45 x 50 mitochondrial ribosomal protein S28 [Source:HGNC Symbol;Acc:HGNC:10341]
7	ORMDL3	1.25	2e-07	4e-06	46 x 50 ORMDL sphingolipid biosynthesis regulator 3 [Source:HGNC Symbol;Acc:HGNC:10341]
8	PISD	1.25	2e-07	8e-06	45 x 50 phosphatidylserine decarboxylase [Source:HGNC Symbol;Acc:HGNC:10341]
9	ICA1	1.23	3e-07	2e-05	50 x 50 islet cell autoantigen 1, 69kDa [Source:HGNC Symbol;Acc:HGNC:10341]
10	C1orf109	1.21	5e-07	2e-05	49 x 50 chromosome 1 open reading frame 109 [Source:HGNC Symbol;Acc:HGNC:10341]
11	RABGGTA	1.19	7e-07	1e-04	48 x 50 Rab geranylgeranyltransferase, alpha subunit [Source:HGNC Symbol;Acc:HGNC:10341]
12	PPCDC	1.13	2e-06	2e-04	47 x 50 phosphopantothenoylcysteine decarboxylase [Source:HGNC Symbol;Acc:HGNC:10341]
13	CIRH1A	-1	8e-06	2e-04	49 x 50 cirrhosis, autosomal recessive 1A (cirhin) [Source:HGNC Symbol;Acc:HGNC:10341]
14	BSCCL2	-0.58	8e-06	2e-04	50 x 50 Berardinelli-Seip congenital lipodystrophy 2 (seipin) [Source:HGNC Symbol;Acc:HGNC:10341]
15	MBIP	1.06	1e-05	2e-04	50 x 50 MAP3K12 binding inhibitory protein 1 [Source:HGNC Symbol;Acc:HGNC:10341]
16	ELP4	1.06	1e-05	3e-04	47 x 49 elongator acetyltransferase complex subunit 4 [Source:HGNC Symbol;Acc:HGNC:10341]
17	ZBTB21	-1.03	2e-05	3e-04	50 x 50 zinc finger and BTB domain containing 21 [Source:HGNC Symbol;Acc:HGNC:10341]
18	PTPRR	1.02	2e-05	3e-04	47 x 50 protein tyrosine phosphatase, receptor type, R [Source:HGNC Symbol;Acc:HGNC:10341]
19	AVP11	-0.66	3e-05	3e-04	49 x 50 arginine vasopressin-induced 1 [Source:HGNC Symbol;Acc:HGNC:10341]
20	MIF4GD	-1.01	3e-05	3e-04	50 x 50 MIF4G domain containing [Source:HGNC Symbol;Acc:HGNC:10341]

p-values



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Local Summary

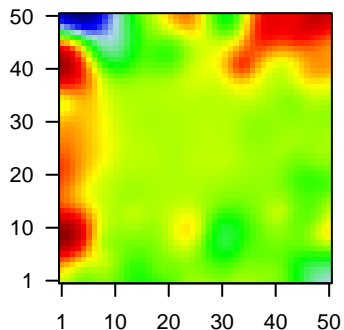
%DE = 0.88
 # metagenes = 22
 # genes = 336
 # genes in genesets = 336

 # genes with $fdr < 0.1$ = 232 (11 + / 221 -)
 # genes with $fdr < 0.05$ = 231 (11 + / 220 -)
 # genes with $fdr < 0.01$ = 142 (6 + / 136 -)

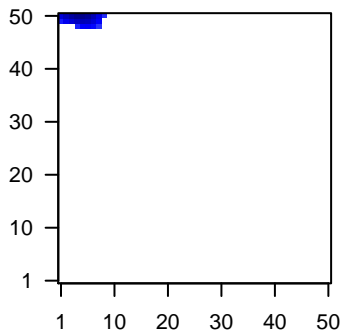
$\langle r \rangle$ metagenes = 0.93
 $\langle r \rangle$ genes = 0.31

 $\langle FC \rangle$ = -0.54
 $\langle \text{shrinkage-t} \rangle$ = -8.74
 $\langle p\text{-value} \rangle$ = 0
 $\langle fdr \rangle$ = 0.46

Profile



Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	CDKN3	-1.65	2e-16	2e-15	6 x 50 cyclin-dependent kinase inhibitor 3 [Source:HGNC Symbol;A
2	EXOSC8	-1.71	2e-16	2e-15	1 x 50 exosome component 8 [Source:HGNC Symbol;Acc:HGNC:17
3	PCNA	-1.64	2e-16	2e-15	2 x 50 proliferating cell nuclear antigen [Source:HGNC Symbol;Acc:I
4	PTTG1	-1.49	2e-16	2e-15	7 x 50 pituitary tumor-transforming 1 [Source:HGNC Symbol;Acc:HK
5	TUBB4B	-1.49	1e-15	2e-12	7 x 50 tubulin, beta 4B class IVb [Source:HGNC Symbol;Acc:HGNC
6	DEK	-1.21	5e-14	7e-11	2 x 50 DEK proto-oncogene [Source:HGNC Symbol;Acc:HGNC:276
7	TK1	-1.35	2e-12	7e-11	4 x 50 thymidine kinase 1, soluble [Source:HGNC Symbol;Acc:HGN
8	CKAP5	-1.43	4e-12	7e-11	9 x 50 cytoskeleton associated protein 5 [Source:HGNC Symbol;Acc
9	NUP85	-1.32	5e-12	2e-09	1 x 50 nucleoporin 85kDa [Source:HGNC Symbol;Acc:HGNC:8734]
10	RFC5	-1.39	5e-11	2e-09	2 x 50 replication factor C (activator 1) 5, 36.5kDa [Source:HGNC S
11	TUBA1B	-0.64	8e-11	8e-09	6 x 48 tubulin, alpha 1b [Source:HGNC Symbol;Acc:HGNC:18809]
12	MAD2L1	-1.35	3e-10	8e-09	5 x 50 MAD2 mitotic arrest deficient-like 1 (yeast) [Source:HGNC S
13	MCM4	-1.18	6e-10	8e-09	1 x 50 minichromosome maintenance complex component 4 [Sourc
14	FEN1	-1.34	6e-10	7e-08	1 x 50 flap structure-specific endonuclease 1 [Source:HGNC Symb
15	EMP2	-1.31	2e-09	7e-08	2 x 50 epithelial membrane protein 2 [Source:HGNC Symbol;Acc:HC
16	EXOSC9	-1.29	4e-09	1e-07	1 x 50 exosome component 9 [Source:HGNC Symbol;Acc:HGNC:91
17	POLD3	-1.27	9e-09	1e-07	2 x 50 polymerase (DNA-directed), delta 3, accessory subunit [Sour
18	STMN1	-0.56	1e-08	5e-07	5 x 50 stathmin 1 [Source:HGNC Symbol;Acc:HGNC:6510]
19	BIRC5	-1.19	4e-08	5e-07	6 x 50 baculoviral IAP repeat containing 5 [Source:HGNC Symbol;A
20	HELLS	-1.24	4e-08	5e-07	1 x 50 helicase, lymphoid-specific [Source:HGNC Symbol;Acc:HGN

p-values

