

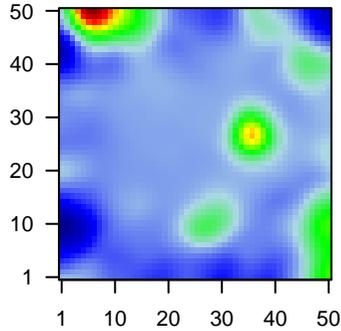
# B2\_mel

## Global Summary

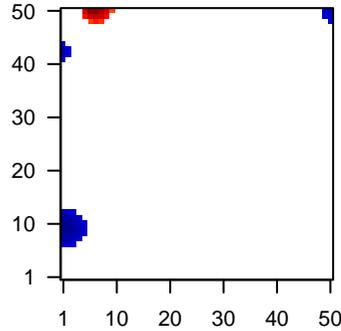
%DE = 0.21  
 # genes with  $fdr < 0.2 = 2549$  ( 1562 + / 987 - )  
 # genes with  $fdr < 0.1 = 2074$  ( 1289 + / 785 - )  
 # genes with  $fdr < 0.05 = 1700$  ( 1056 + / 644 - )  
 # genes with  $fdr < 0.01 = 1084$  ( 687 + / 397 - )  
 # genes in genesets = 14839

<FC> = 0  
 <shrinkage-t> = -0.01  
 <p-value> = 0.08  
 <fdr> = 0.79

Profile



Regulated Spots

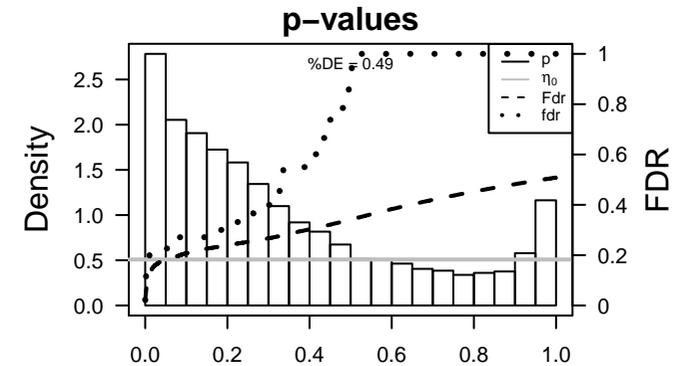
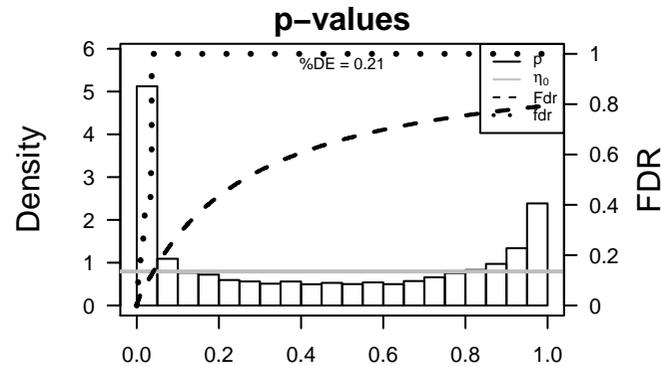


## Global Genelist

Rank	ID	log(FC)	fdr p-value	Description Metagene
1	AHCY	-1.77	2e-16 7e-14	1 x 41 adenosylhomocysteinase [Source:HGNC Symbol;Acc:HGNC:10000]
2	AK2	-1.55	2e-16 7e-14	1 x 26 adenylate kinase 2 [Source:HGNC Symbol;Acc:HGNC:362]
3	ARHGAP8	-1.76	2e-16 7e-14	1 x 43 Rho GTPase activating protein 8 [Source:HGNC Symbol;Acc:HGNC:10000]
4	ATP1A1	-1.32	2e-16 7e-14	1 x 42 ATPase, Na+/K+ transporting, alpha 1 polypeptide [Source:HGNC Symbol;Acc:HGNC:10000]
5	BSCL2	-1.14	2e-16 7e-14	50 x 50 Berardinelli-Seip congenital lipodystrophy 2 (seipin) [Source:HGNC Symbol;Acc:HGNC:10000]
6	CADM1	2.03	2e-16 7e-14	44 x 10 cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:10000]
7	CCNB1	2.05	2e-16 7e-14	7 x 50 cyclin B1 [Source:HGNC Symbol;Acc:HGNC:1579]
8	CDC20	2	2e-16 7e-14	6 x 50 cell division cycle 20 [Source:HGNC Symbol;Acc:HGNC:1723]
9	CHID1	-1.57	2e-16 7e-14	33 x 50 chitinase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10000]
10	CPNE3	-1.54	2e-16 7e-14	44 x 34 copine III [Source:HGNC Symbol;Acc:HGNC:2316]
11	CTSB	-1.39	2e-16 7e-14	46 x 46 cathepsin B [Source:HGNC Symbol;Acc:HGNC:2527]
12	DCXR	1.33	2e-16 7e-14	5 x 37 dicarbonyl/L-xylulose reductase [Source:HGNC Symbol;Acc:HGNC:10000]
13	DERA	-1.79	2e-16 7e-14	1 x 43 deoxyribose-phosphate aldolase (putative) [Source:HGNC Symbol;Acc:HGNC:10000]
14	EXOC3	-0.83	2e-16 7e-14	1 x 42 exocyst complex component 3 [Source:HGNC Symbol;Acc:HGNC:10000]
15	FAHD1	-1.65	2e-16 7e-14	1 x 40 fumarylacetoacetate hydrolase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10000]
16	FOS	-1.79	2e-16 7e-14	4 x 7 FBJ murine osteosarcoma viral oncogene homolog [Source:HGNC Symbol;Acc:HGNC:10000]
17	KIF20A	1.96	2e-16 7e-14	7 x 50 kinesin family member 20A [Source:HGNC Symbol;Acc:HGNC:10000]
18	KPNA2	1.46	2e-16 7e-14	7 x 50 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) [Source:HGNC Symbol;Acc:HGNC:10000]
19	METTL9	-1.59	2e-16 7e-14	1 x 43 methyltransferase like 9 [Source:HGNC Symbol;Acc:HGNC:20000]
20	MTX2	-1.91	2e-16 7e-14	1 x 42 metaxin 2 [Source:HGNC Symbol;Acc:HGNC:7506]

## Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	19.8	2e-05	142	Glio WILLSCHER_GBM_Verhaak-CL_up ( C )
2	16.82	3e-05	139	GSEA C2RSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
3	16.74	5e-04	16	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
4	15.62	4e-05	291	GSEA C2HORIUCHI_WTAP_TARGETS_DN
5	14.98	5e-05	550	GSEA C2SOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
6	14.59	6e-05	99	GSEA C2LEE_EARLY_T_LYMPHOCYTE_UP
7	14.57	6e-05	201	GSEA C2WHITFIELD_CELL_CYCLE_G2_M
8	13.84	7e-05	124	GSEA C2ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR
9	13.81	7e-05	96	GSEA C2ROONQUIST_IL6_DEPRIVATION_DN
10	13.62	7e-05	155	GSEA C2HOFFMANN_LARGE_TO_SMALL_PRE_BIL_LYMPHOCYTE_UP
11	13.6	8e-05	40	GSEA C2AMUNDSON_GAMMA_RADIATION_RESPONSE
12	13.59	8e-05	52	GSEA C2TANG_SENESCENCE_TP53_TARGETS_DN
13	13.38	8e-05	45	GSEA C2ZHAN_MULTIPLE_MYELOMA_PR_UP
14	13.31	8e-05	312	BP mitotic nuclear division
15	13.27	8e-05	196	HM HALLMARK_G2M_CHECKPOINT
16	13.25	8e-05	39	GSEA C2BURTON_ADIPOGENESIS_PEAK_AT_24HR
17	13.24	8e-05	28	GSEA C2REICHERT_MITOSIS_LIN9_TARGETS
18	13.1	9e-05	409	BP cell division
19	12.75	1e-04	170	GSEA C2WHITFIELD_CELL_CYCLE_G2
20	12.46	1e-04	145	GSEA C2ZHANG_CYCLING_GENES
<i>Underexpressed</i>				
1	-7.11	0.001	198	HM HALLMARK_OXIDATIVE_PHOSPHORYLATION
2	-5.96	0.002	212	GSEA C2DUTERTRE ESTRADIOL_RESPONSE_6HR_UP
3	-5.77	0.002	368	GSEA C2STEIN_ESRRA_TARGETS_UP
4	-5.54	0.002	35	MF aminoacyl-tRNA ligase activity
5	-5.44	0.003	500	GSEA C2STEIN_ESRRA_TARGETS
6	-5.2	0.003	32	GSEA C2KEGG_DNA_REPLICATION
7	-5.12	0.003	135	GSEA C2WHITFIELD_CELL_CYCLE_G1_S
8	-5.07	0.003	401	CC mitochondrial inner membrane
9	-5.06	0.003	1468	CC mitochondrion
10	-5.03	0.003	29	BP DNA strand elongation involved in DNA replication
11	-4.95	0.004	398	GSEA C2MOOHA_PGC
12	-4.89	0.004	213	GSEA C2WONG_MITOCHONDRIA_GENE_MODULE
13	-4.81	0.004	6	GSEA C2SHIDA_TARGETS_OF_SYT_SSX_FUSIONS
14	-4.76	0.004	41	GSEA C2KEGG_AMINOACYL_TRNA_BIOSYNTHESIS
15	-4.64	0.005	27	GSEA C2REACTOME_DNA_STRAND_ELONGATION
16	-4.39	0.006	44	BP tRNA aminoacylation for protein translation
17	-4.39	0.006	16	Cancer GENTLES_modul7
18	-4.38	0.006	25	GSEA C2MOOHA_GLUCONEOGENESIS
19	-4.31	0.006	695	MF transmembrane transporter activity
20	-4.31	0.006	107	GSEA C2KEGG_OXIDATIVE_PHOSPHORYLATION



# B2\_mel

## Local Summary

%DE = 0.96  
 # metagenes = 14  
 # genes = 199  
 # genes in genesets = 199  
  
 # genes with  $fdr < 0.1$  = 176 ( 170 + / 6 -)  
 # genes with  $fdr < 0.05$  = 176 ( 170 + / 6 -)  
 # genes with  $fdr < 0.01$  = 165 ( 161 + / 4 -)

<r> metagenes = 0.98

<r> genes = 0.36

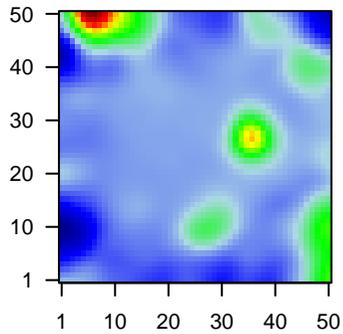
<FC> = 0.94

<shrinkage-t> = 15.17

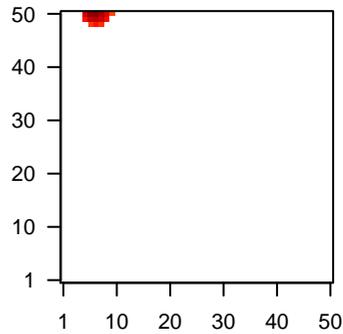
<p-value> = 0

<fdr> = 0.17

Profile



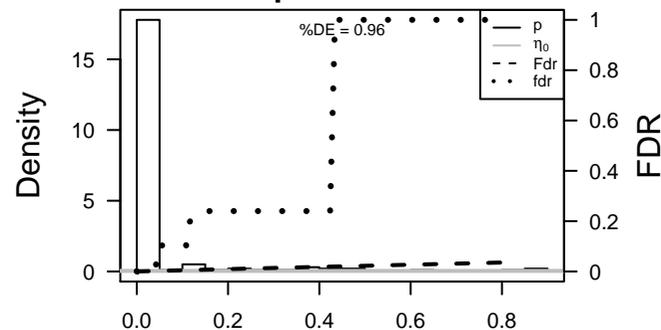
Spot



## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	CCNB1	2.05	2e-16	2e-16	7 x 50 cyclin B1 [Source:HGNC Symbol;Acc:HGNC:1579]
2	CDC20	2	2e-16	2e-16	6 x 50 cell division cycle 20 [Source:HGNC Symbol;Acc:HGNC:1723]
3	KIF20A	1.96	2e-16	2e-16	7 x 50 kinesin family member 20A [Source:HGNC Symbol;Acc:HGNC:1579]
4	KPNA2	1.46	2e-16	2e-16	7 x 50 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) [Source:HGNC Symbol;Acc:HGNC:1579]
5	NEK2	2	2e-16	2e-16	8 x 50 NIMA-related kinase 2 [Source:HGNC Symbol;Acc:HGNC:77]
6	PLK1	2.09	2e-16	2e-16	8 x 50 polo-like kinase 1 [Source:HGNC Symbol;Acc:HGNC:9077]
7	PTTG1	1.28	2e-16	2e-16	7 x 50 pituitary tumor-transforming 1 [Source:HGNC Symbol;Acc:HGNC:1579]
8	UBE2C	2.22	2e-16	2e-16	6 x 50 ubiquitin-conjugating enzyme E2C [Source:HGNC Symbol;Acc:HGNC:1579]
9	FAM64A	1.85	8e-15	5e-14	7 x 50 family with sequence similarity 64, member A [Source:HGNC Symbol;Acc:HGNC:1579]
10	PSRC1	1.84	1e-14	1e-13	8 x 50 proline/serine-rich coiled-coil 1 [Source:HGNC Symbol;Acc:HGNC:1579]
11	ARL6IP1	1.11	4e-14	1e-13	9 x 50 ADP-ribosylation factor-like 6 interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:1579]
12	RACGAP1	1.79	5e-14	3e-13	7 x 50 Rac GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:1579]
13	HMGB2	1.61	1e-13	3e-13	5 x 50 high mobility group box 2 [Source:HGNC Symbol;Acc:HGNC:1579]
14	CDK1	1.74	1e-13	3e-13	5 x 50 cyclin-dependent kinase 1 [Source:HGNC Symbol;Acc:HGNC:1579]
15	TOP2A	1.75	2e-13	9e-13	6 x 50 topoisomerase (DNA) II alpha 170kDa [Source:HGNC Symbol;Acc:HGNC:1579]
16	CKAP2L	1.74	3e-13	1e-12	6 x 50 cytoskeleton associated protein 2-like [Source:HGNC Symbol;Acc:HGNC:1579]
17	AURKB	1.72	5e-13	1e-12	6 x 50 aurora kinase B [Source:HGNC Symbol;Acc:HGNC:11390]
18	STMN1	0.69	6e-13	1e-12	5 x 50 stathmin 1 [Source:HGNC Symbol;Acc:HGNC:6510]
19	CDCA3	1.7	8e-13	1e-12	6 x 50 cell division cycle associated 3 [Source:HGNC Symbol;Acc:HGNC:1579]
20	BIRC5	1.54	9e-13	1e-12	6 x 50 baculoviral IAP repeat containing 5 [Source:HGNC Symbol;Acc:HGNC:1579]

p-values



# B2\_mel

## Local Summary

%DE = 0.72  
 # metagenes = 29  
 # genes = 355  
 # genes in genesets = 353  
  
 # genes with  $fdr < 0.1$  = 143 ( 22 + / 121 - )  
 # genes with  $fdr < 0.05$  = 122 ( 21 + / 101 - )  
 # genes with  $fdr < 0.01$  = 75 ( 13 + / 62 - )

<r> metagenes = 0.91

<r> genes = 0.11

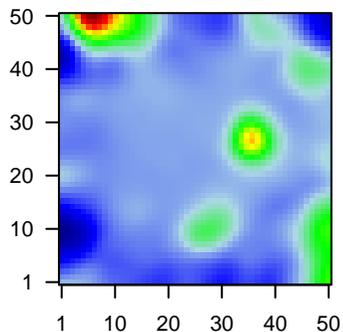
<FC> = -0.3

<shrinkage-t> = -4.85

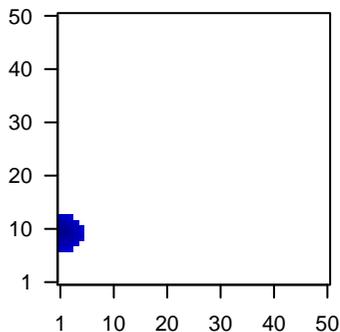
<p-value> = 0.01

<fdr> = 0.63

### Profile



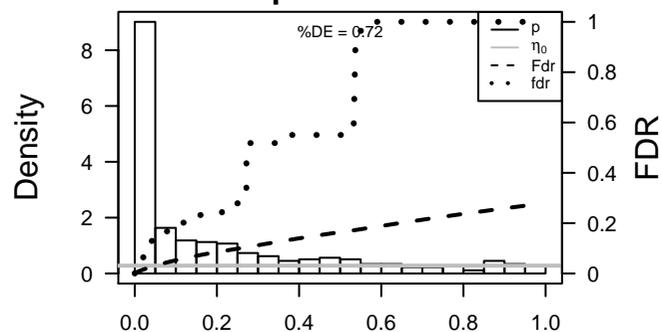
### Spot



## Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	WDR43	-1.4	2e-16	2e-14	4 x 11 WD repeat domain 43 [Source:HGNC Symbol;Acc:HGNC:28]
2	ZZZ3	-1.52	4e-16	4e-14	1 x 11 zinc finger, ZZ-type containing 3 [Source:HGNC Symbol;Acc
3	CCDC171	-1.52	9e-16	6e-13	1 x 11 coiled-coil domain containing 171 [Source:HGNC Symbol;Ac
4	RAB27A	-1.52	6e-15	3e-10	1 x 11 RAB27A, member RAS oncogene family [Source:HGNC Sym
5	ADAM10	-1.11	4e-12	3e-10	4 x 11 ADAM metallopeptidase domain 10 [Source:HGNC Symbol;A
6	DCT	0.94	7e-12	1e-09	1 x 11 dopachrome tautomerase [Source:HGNC Symbol;Acc:HGNC
7	MET	-1.4	2e-11	1e-09	1 x 11 MET proto-oncogene, receptor tyrosine kinase [Source:HGN
8	SGK1	-0.65	3e-11	8e-09	1 x 13 serum/glucocorticoid regulated kinase 1 [Source:HGNC Syml
9	ST3GAL6	-1.36	1e-10	8e-09	4 x 8 ST3 beta-galactoside alpha-2,3-sialyltransferase 6 [Source:
10	PPARGC1A	-1.35	2e-10	1e-08	1 x 10 peroxisome proliferator-activated receptor gamma, coactivat
11	LRPPRC	-1.12	3e-10	2e-08	3 x 8 leucine-rich pentatricopeptide repeat containing [Source:HGI
12	MRPS5	-1.21	4e-10	1e-07	3 x 7 mitochondrial ribosomal protein S5 [Source:HGNC Symbol;A
13	UGCG	-0.92	2e-09	1e-07	1 x 11 UDP-glucose ceramide glucosyltransferase [Source:HGNC S
14	CEACAM1	-1.27	4e-09	1e-07	1 x 10 carcinoembryonic antigen-related cell adhesion molecule 1 (l
15	MRS2	-1.27	5e-09	1e-07	1 x 13 MRS2 magnesium transporter [Source:HGNC Symbol;Acc:H
16	TNFRSF14	-1.27	6e-09	3e-07	1 x 11 tumor necrosis factor receptor superfamily, member 14 [Sour
17	SOCS6	-1.26	8e-09	1e-05	1 x 11 suppressor of cytokine signaling 6 [Source:HGNC Symbol;Ac
18	WDR3	1.2	4e-07	1e-05	1 x 12 WD repeat domain 3 [Source:HGNC Symbol;Acc:HGNC:127
19	SCIN	1.2	4e-07	1e-05	1 x 12 scinderin [Source:HGNC Symbol;Acc:HGNC:21695]
20	IRF4	1.2	5e-07	1e-05	1 x 11 interferon regulatory factor 4 [Source:HGNC Symbol;Acc:HGI

### p-values



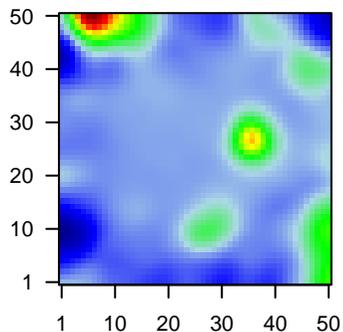
# B2\_mel

## Local Summary

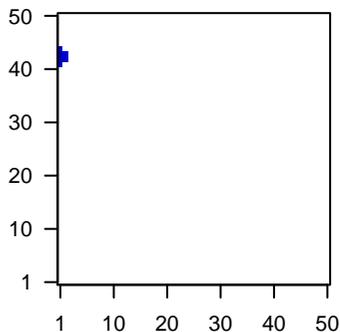
%DE = 0.85  
 # metagenes = 6  
 # genes = 146  
 # genes in genesets = 146  
  
 # genes with  $fdr < 0.1$  = 89 ( 10 + / 79 -)  
 # genes with  $fdr < 0.05$  = 84 ( 9 + / 75 -)  
 # genes with  $fdr < 0.01$  = 69 ( 6 + / 63 -)

$\langle r \rangle$  metagenes = 0.99  
 $\langle r \rangle$  genes = 0.23  
  
 $\langle FC \rangle$  = -0.5  
 $\langle \text{shrinkage-t} \rangle$  = -9.44  
 $\langle p\text{-value} \rangle$  = 0  
 $\langle fdr \rangle$  = 0.45

Profile



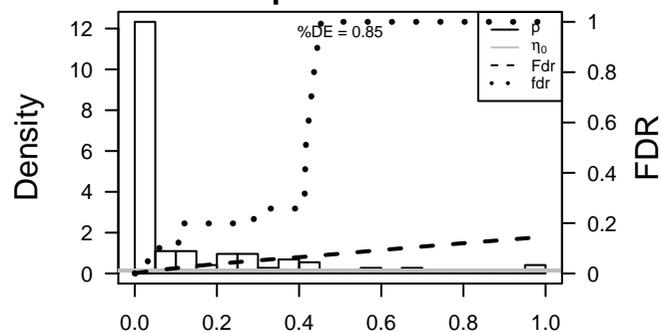
Spot



## Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	AHCY	-1.77	2e-16	5e-16	1 x 41 adenosylhomocysteinase [Source:HGNC Symbol;Acc:HGNC
2	ARHGAP8	-1.76	2e-16	5e-16	1 x 43 Rho GTPase activating protein 8 [Source:HGNC Symbol;Acc:
3	ATP1A1	-1.32	2e-16	5e-16	1 x 42 ATPase, Na+/K+ transporting, alpha 1 polypeptide [Source:Hi
4	DERA	-1.79	2e-16	5e-16	1 x 43 deoxyribose-phosphate aldolase (putative) [Source:HGNC S
5	EXOC3	-0.83	2e-16	5e-16	1 x 42 exocyst complex component 3 [Source:HGNC Symbol;Acc:Hi
6	METTL9	-1.59	2e-16	5e-16	1 x 43 methyltransferase like 9 [Source:HGNC Symbol;Acc:HGNC:2
7	MTX2	-1.91	2e-16	5e-16	1 x 42 metaxin 2 [Source:HGNC Symbol;Acc:HGNC:7506]
8	NARS2	-2.48	2e-16	5e-16	1 x 42 asparaginyl-tRNA synthetase 2, mitochondrial (putative) [Sou
9	PDE4DIP	-1.79	2e-16	5e-16	1 x 43 phosphodiesterase 4D interacting protein [Source:HGNC Syn
10	RNF14	-1.67	2e-16	5e-16	1 x 43 ring finger protein 14 [Source:HGNC Symbol;Acc:HGNC:100:
11	MLPH	-1.48	9e-14	7e-12	1 x 43 melanophilin [Source:HGNC Symbol;Acc:HGNC:29643]
12	ABCB5	-1.22	4e-13	2e-11	1 x 43 ATP-binding cassette, sub-family B (MDR/TAP), member 5 [!
13	GSTM4	-1.45	2e-12	3e-11	1 x 41 glutathione S-transferase mu 4 [Source:HGNC Symbol;Acc:t
14	MPC1	-1.37	3e-12	1e-10	1 x 43 mitochondrial pyruvate carrier 1 [Source:HGNC Symbol;Acc:t
15	PSMB10	-1.42	8e-12	5e-10	1 x 42 proteasome (prosome, macropain) subunit, beta type, 10 [Sou
16	SAMM50	-1.39	4e-11	5e-10	1 x 42 SAMM50 sorting and assembly machinery component [Sour
17	PAFAH1B3	-1.38	5e-11	1e-09	1 x 43 platelet-activating factor acetylhydrolase 1b, catalytic subunit
18	TUBB4A	-1.32	1e-10	1e-08	1 x 42 tubulin, beta 4A class IVa [Source:HGNC Symbol;Acc:HGNC:
19	FASTKD2	-1.3	6e-10	1e-08	1 x 43 FAST kinase domains 2 [Source:HGNC Symbol;Acc:HGNC:2
20	AIFM1	-1.29	1e-09	1e-08	1 x 42 apoptosis-inducing factor, mitochondrion-associated, 1 [Sou

p-values



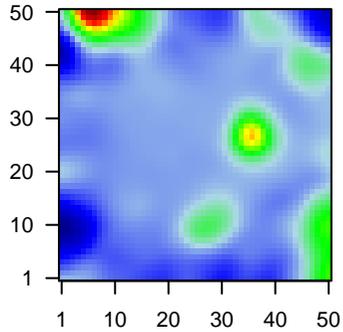
# B2\_mel

## Local Summary

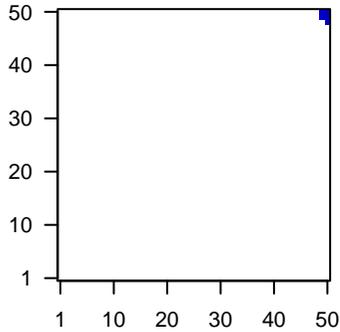
%DE = 0.74  
 # metagenes = 5  
 # genes = 115  
 # genes in genesets = 115  
  
 # genes with  $fdr < 0.1$  = 60 ( 12 + / 48 - )  
 # genes with  $fdr < 0.05$  = 43 ( 6 + / 37 - )  
 # genes with  $fdr < 0.01$  = 41 ( 5 + / 36 - )

<r> metagenes = 0.99  
 <r> genes = 0.1  
  
 <FC> = -0.32  
 <shrinkage-t> = -5.51  
 <p-value> = 0  
 <fdr> = 0.54

Profile



Spot



## Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	BSC12	-1.14	2e-16	3e-15	50 x 50 Berardinelli-Seip congenital lipodystrophy 2 (seipin) [Source:HGNC Symbol;Acc:HGNC:10000]
2	PLEKHA5	-1.86	2e-16	3e-15	50 x 50 pleckstrin homology domain containing, family A member 5 [Source:HGNC Symbol;Acc:HGNC:10000]
3	G3BP2	-1.33	1e-15	5e-12	50 x 49 GTPase activating protein (SH3 domain) binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10000]
4	NQO2	-1.18	2e-13	7e-12	50 x 50 NAD(P)H dehydrogenase, quinone 2 [Source:HGNC Symbol;Acc:HGNC:10000]
5	NIP7	-1.46	4e-13	5e-11	50 x 50 NIP7, nucleolar pre-rRNA processing protein [Source:HGNC Symbol;Acc:HGNC:10000]
6	DDIT3	-1.44	2e-12	1e-08	50 x 50 DNA-damage-inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:10000]
7	ALDOC	-1.34	4e-10	1e-07	50 x 50 aldolase C, fructose-bisphosphate [Source:HGNC Symbol;Acc:HGNC:10000]
8	DARS	-1.27	4e-09	3e-06	50 x 50 aspartyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:10000]
9	GSN	-1.2	1e-07	3e-06	50 x 50 gelsolin [Source:HGNC Symbol;Acc:HGNC:4620]
10	ENTPD6	-1.13	2e-07	3e-06	50 x 50 ectonucleoside triphosphate diphosphohydrolase 6 (putative)
11	WDR26	-1.1	3e-07	4e-06	50 x 50 WD repeat domain 26 [Source:HGNC Symbol;Acc:HGNC:21000]
12	TRPT1	-1.17	4e-07	8e-06	50 x 49 tRNA phosphotransferase 1 [Source:HGNC Symbol;Acc:HGNC:10000]
13	ERC2	-1.15	1e-06	8e-06	50 x 49 ELKS/RAB6-interacting/CAST family member 2 [Source:HGNC Symbol;Acc:HGNC:10000]
14	CAP2	-1.06	1e-06	8e-06	50 x 50 CAP, adenylate cyclase-associated protein, 2 (yeast) [Source:HGNC Symbol;Acc:HGNC:10000]
15	UPP1	-1.14	1e-06	5e-05	50 x 50 uridine phosphorylase 1 [Source:HGNC Symbol;Acc:HGNC:10000]
16	NQO1	-0.45	3e-06	7e-05	49 x 50 NAD(P)H dehydrogenase, quinone 1 [Source:HGNC Symbol;Acc:HGNC:10000]
17	TM2D3	-1.06	7e-06	7e-05	50 x 49 TM2 domain containing 3 [Source:HGNC Symbol;Acc:HGNC:10000]
18	SRPR	-1.06	8e-06	1e-04	50 x 48 signal recognition particle receptor (docking protein) [Source:HGNC Symbol;Acc:HGNC:10000]
19	LUZP6	-1.03	1e-05	1e-04	50 x 49 leucine zipper protein 6 [Source:HGNC Symbol;Acc:HGNC:30000]
20	DUSP3	-0.91	2e-05	1e-04	50 x 49 dual specificity phosphatase 3 [Source:HGNC Symbol;Acc:HGNC:10000]

p-values

