

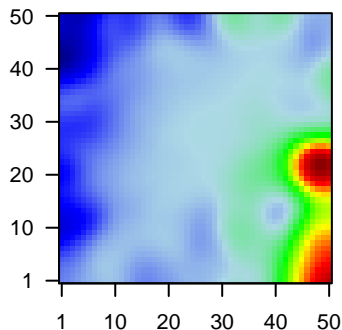
E11_mel

Global Summary

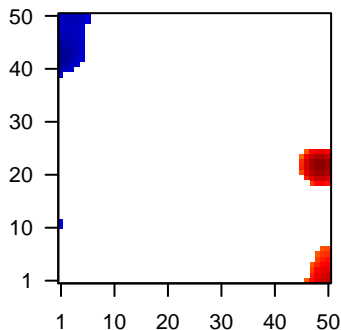
%DE = 0.23
 # genes with fdr < 0.2 = 2890 (1661 + / 1229 -)
 # genes with fdr < 0.1 = 2524 (1454 + / 1070 -)
 # genes with fdr < 0.05 = 2086 (1222 + / 864 -)
 # genes with fdr < 0.01 = 1371 (814 + / 557 -)
 # genes in genesets = 14839

<FC> = 0
 <shrinkage-t> = -0.15
 <p-value> = 0.06
 <fdr> = 0.77

Profile



Regulated Spots

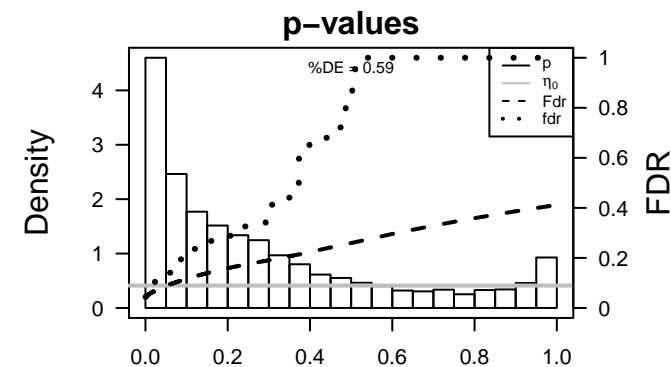
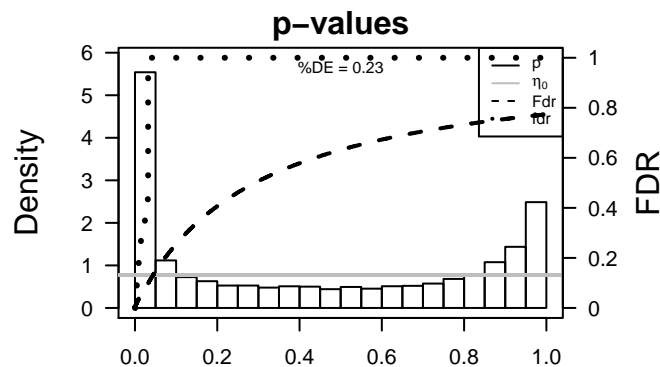


Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	ACTL6A	-1.88	2e-16	3e-14	4 x 50 actin-like 6A [Source:HGNC Symbol;Acc:HGNC:24124]
2	ANXA1	2.44	2e-16	3e-14	50 x 1 annexin A1 [Source:HGNC Symbol;Acc:HGNC:533]
3	ATP1A1	-1.65	2e-16	3e-14	1 x 42 ATPase, Na+/K+ transporting, alpha 1 polypeptide [Source:HGNC Symbol;Acc:HGNC:10000]
4	ATP1B3	-2.05	2e-16	3e-14	1 x 21 ATPase, Na+/K+ transporting, beta 3 polypeptide [Source:HGNC Symbol;Acc:HGNC:10000]
5	ATP6V0A1	-1.64	2e-16	3e-14	1 x 10 ATPase, H+ transporting, lysosomal V0 subunit a1 [Source:HGNC Symbol;Acc:HGNC:10000]
6	ATP6V1H	-1.84	2e-16	3e-14	5 x 44 ATPase, H+ transporting, lysosomal 50/57kDa, V1 subunit H [Source:HGNC Symbol;Acc:HGNC:10000]
7	AVP11	-1.61	2e-16	3e-14	49 x 50 arginine vasopressin-induced 1 [Source:HGNC Symbol;Acc:HGNC:10000]
8	C6orf1	-1.63	2e-16	3e-14	1 x 39 chromosome 6 open reading frame 1 [Source:HGNC Symbol;Acc:HGNC:10000]
9	CALD1	1.71	2e-16	3e-14	50 x 1 caldesmon 1 [Source:HGNC Symbol;Acc:HGNC:1441]
10	CAPN3	-1.86	2e-16	3e-14	1 x 43 calpain 3, (p94) [Source:HGNC Symbol;Acc:HGNC:1480]
11	CDK2	-1.65	2e-16	3e-14	1 x 43 cyclin-dependent kinase 2 [Source:HGNC Symbol;Acc:HGNC:10000]
12	CDK4	-0.93	2e-16	3e-14	3 x 44 cyclin-dependent kinase 4 [Source:HGNC Symbol;Acc:HGNC:10000]
13	CKS2	-1.66	2e-16	3e-14	5 x 50 CDC28 protein kinase regulatory subunit 2 [Source:HGNC Symbol;Acc:HGNC:10000]
14	CNN3	0.94	2e-16	3e-14	47 x 1 calponin 3, acidic [Source:HGNC Symbol;Acc:HGNC:2157]
15	COPZ1	-1.68	2e-16	3e-14	46 x 45 coatamer protein complex, subunit zeta 1 [Source:HGNC Symbol;Acc:HGNC:10000]
16	DCT	-1.25	2e-16	3e-14	1 x 11 dopachrome tautomerase [Source:HGNC Symbol;Acc:HGNC:10000]
17	DKC1	-1.67	2e-16	3e-14	7 x 43 dyskeratosis congenita 1, dyskerin [Source:HGNC Symbol;Acc:HGNC:10000]
18	DKK1	2.85	2e-16	3e-14	50 x 1 dickkopf WNT signaling pathway inhibitor 1 [Source:HGNC Symbol;Acc:HGNC:10000]
19	ELP5	-1.64	2e-16	3e-14	3 x 44 elongator acetyltransferase complex subunit 5 [Source:HGNC Symbol;Acc:HGNC:10000]
20	ERAL1	-1.53	2e-16	3e-14	46 x 44 Era-like 12S mitochondrial rRNA chaperone 1 [Source:HGNC Symbol;Acc:HGNC:10000]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	10.89	2e-04	472	GSEA C2DUTERTRE_ESTRADIOL_RESPONSE_24HR_DN
2	10.75	2e-04	286	GSEA C2PASINI_SUZ12_TARGETS_DN
3	9.47	3e-04	594	GSEA C2WONG_ADULT_TISSUE_STEM_MODULE
4	8.44	5e-04	302	GSEA C2KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_DN
5	8.42	5e-04	168	HM HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
6	8.4	5e-04	195	GSEA C2SENESE_HDAC1_AND_HDAC2_TARGETS_DN
7	8.02	6e-04	410	GSEA C2JIM_MAMMARY_STEM_CELL_UP
8	7.81	7e-04	55	GSEA C2AMIT_SERUM_RESPONSE_60_MCF10A
9	7.76	7e-04	212	LymphomaENZ_Stromal signature 1
10	7.45	8e-04	3897	Colon CaCes1_Colon
11	7.44	8e-04	2188	LymphomaOPP_Poised_promoter
12	7.39	8e-04	749	GSEA C2CUI_TCF21_TARGETS_2_DN
13	7.35	9e-04	71	GSEA C2RODRIGUES_THYROID_CARCINOMA_DN
14	7.34	9e-04	385	GSEA C2REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
15	7.34	9e-04	3396	LymphomaOPP_Repressed
16	7.32	9e-04	161	GSEA C2ELVIDGE_HYPOXIA_UP
17	7.31	9e-04	283	GSEA C2SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
18	7.17	1e-03	618	GSEA C2GOZGIT_ESR1_TARGETS_DN
19	7.1	1e-03	401	GSEA C2CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN
20	6.98	1e-03	833	GSEA C2DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
<i>Underexpressed</i>				
1	-11.99	1e-04	1192	GSEA C2KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
2	-11.98	1e-04	305	GSEA C2DUTERTRE_ESTRADIOL_RESPONSE_24HR_UP
3	-11.87	1e-04	756	GSEA C2VEI_MYCN_TARGETS_WITH_E_BOX
4	-11.27	2e-04	142	Glio WILLSCHER_GBM_Verhaak-CL_up (C)
5	-11.22	2e-04	197	HM HALLMARK_E2F_TARGETS
6	-11.12	2e-04	562	GSEA C2CAIRO_HEPATOBLASTOMA_CLASSES_UP
7	-10.96	2e-04	13	BP melanin biosynthetic process
8	-10.77	2e-04	1460	GSEA C2PUJANA_BRCA1_PCC_NETWORK
9	-10.68	2e-04	242	GSEA C2KOBAYASHI_EGFR_SIGNALING_24HR_DN
10	-10.56	2e-04	124	GSEA C2ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR
11	-10.55	2e-04	50	GSEA C2SHIDA_E2F_TARGETS
12	-10.47	1e-02	16	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
13	-10.46	2e-04	724	GSEA C2PUJANA_CHEK2_PCC_NETWORK
14	-10.43	2e-04	278	GSEA C2MANALO_HYPOXIA_DN
15	-10.39	2e-04	139	GSEA C2ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
16	-10.06	3e-04	436	GSEA C2SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
17	-9.61	3e-04	81	GSEA C2GRAHAM_NORMAL QUIESCENT_VS_NORMAL_DIVIDING_DN
18	-9.4	3e-04	550	GSEA C2GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
19	-9.19	4e-04	405	GSEA C2MOOTHA_HUMAN_MITODB_6_2002
20	-9.04	4e-04	84	GSEA C2ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_6HR



E11_mel

Local Summary

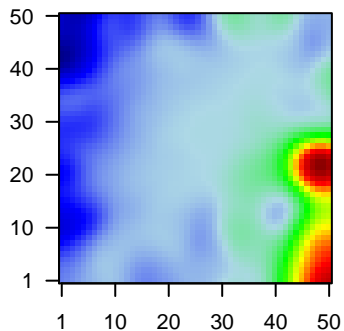
%DE = 0.91
 # metagenes = 25
 # genes = 389
 # genes in genesets = 388

 # genes with fdr < 0.1 = 328 (314 + / 14 -)
 # genes with fdr < 0.05 = 309 (297 + / 12 -)
 # genes with fdr < 0.01 = 263 (258 + / 5 -)

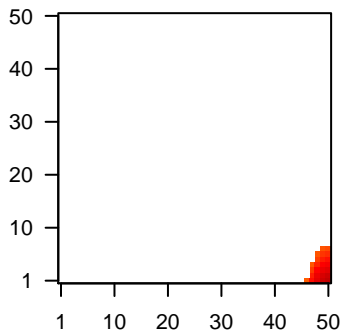
<r> metagenes = 0.96
 <r> genes = 0.17

<FC> = 0.89
 <shrinkage-t> = 14.3
 <p-value> = 0
 <fdr> = 0.27

Profile



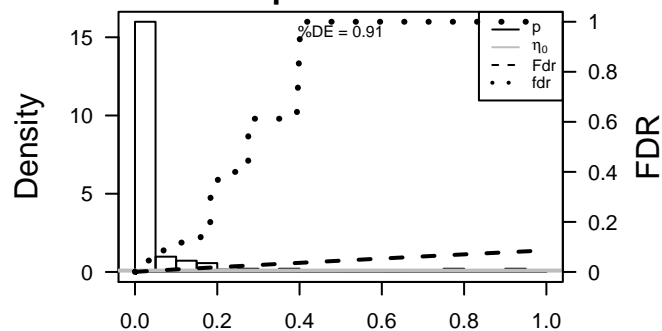
Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	ANXA1	2.44	2e-16	6e-16	50 x 1 annexin A1 [Source:HGNC Symbol;Acc:HGNC:533]
2	CALD1	1.71	2e-16	6e-16	50 x 1 caldesmon 1 [Source:HGNC Symbol;Acc:HGNC:1441]
3	CNN3	0.94	2e-16	6e-16	47 x 1 calponin 3, acidic [Source:HGNC Symbol;Acc:HGNC:2157]
4	DKK1	2.85	2e-16	6e-16	50 x 1 dickkopf WNT signaling pathway inhibitor 1 [Source:HGNC S]
5	HBEGF	2.46	2e-16	6e-16	48 x 1 heparin-binding EGF-like growth factor [Source:HGNC Synt
6	HIST1H3D	2.25	2e-16	6e-16	50 x 1 histone cluster 1, H3d [Source:HGNC Symbol;Acc:HGNC:47f
7	LMCD1	2.2	2e-16	6e-16	47 x 1 LIM and cysteine-rich domains 1 [Source:HGNC Symbol;Acc
8	LUM	2.14	2e-16	6e-16	49 x 7 lumican [Source:HGNC Symbol;Acc:HGNC:6724]
9	MYL12A	1.18	2e-16	6e-16	48 x 3 myosin, light chain 12A, regulatory, non-sarcomeric [Source:l
10	MYL12B	1.09	2e-16	6e-16	48 x 4 myosin, light chain 12B, regulatory [Source:HGNC Symbol;Ac
11	NAV3	2.3	2e-16	6e-16	50 x 1 neuron navigator 3 [Source:HGNC Symbol;Acc:HGNC:15998]
12	PTPRZ1	2.31	2e-16	6e-16	50 x 1 protein tyrosine phosphatase, receptor-type, Z polypeptide 1
13	CRYAB	1.37	1e-15	2e-14	50 x 1 crystallin, alpha B [Source:HGNC Symbol;Acc:HGNC:2389]
14	CAV1	2.08	2e-15	2e-14	50 x 3 caveolin 1, caveolae protein, 22kDa [Source:HGNC Symbol;A
15	MAP2	2.07	2e-15	1e-13	50 x 2 microtubule-associated protein 2 [Source:HGNC Symbol;Acc
16	RAB3IP	2.01	2e-14	1e-13	50 x 3 RAB3A interacting protein [Source:HGNC Symbol;Acc:HGNC
17	S100A16	2.01	2e-14	1e-13	50 x 3 S100 calcium binding protein A16 [Source:HGNC Symbol;Acc
18	CTGF	2.01	2e-14	1e-13	50 x 1 connective tissue growth factor [Source:HGNC Symbol;Acc:H
19	PALLD	2.01	2e-14	1e-12	50 x 4 palladin, cytoskeletal associated protein [Source:HGNC Synt
20	SLIT2	1.96	7e-14	1e-12	50 x 1 slit homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:HGNC

p-values



E11_mel

Local Summary

%DE = 0.99
 # metagenes = 38
 # genes = 335
 # genes in genesets = 333

 # genes with $fdr < 0.1$ = 330 (330 + / 0 -)
 # genes with $fdr < 0.05$ = 330 (330 + / 0 -)
 # genes with $fdr < 0.01$ = 328 (328 + / 0 -)

<r> metagenes = 0.94

<r> genes = 0.19

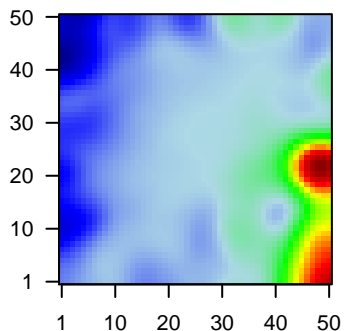
<FC> = 1.17

<shrinkage-t> = 17.82

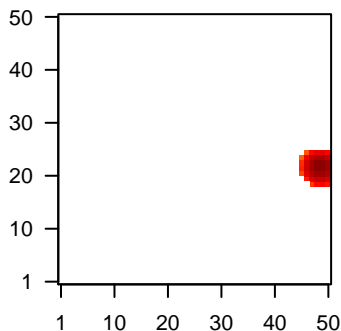
<p-value> = 0

<fdr> = 0.04

Profile



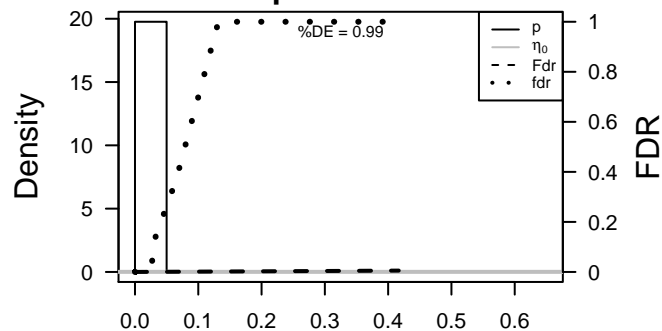
Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	VCAN	2.39	2e-16	6e-16	49 x 23 versican [Source:HGNC Symbol;Acc:HGNC:2464]
2	SCN2A	1.98	4e-14	7e-14	49 x 23 sodium channel, voltage gated, type II alpha subunit [Source:
3	CLHC1	1.96	8e-14	7e-14	49 x 23 clathrin heavy chain linker domain containing 1 [Source:HGNC
4	CEMP1	1.96	8e-14	2e-13	49 x 22 cell migration inducing protein, hyaluronan binding [Source:Hi
5	OXTR	1.94	1e-13	2e-13	48 x 22 oxytocin receptor [Source:HGNC Symbol;Acc:HGNC:8529]
6	MYL4	1.93	2e-13	2e-13	48 x 23 myosin, light chain 4, alkali; atrial, embryonic [Source:HGNC
7	PHLDB2	1.91	3e-13	7e-13	49 x 23 pleckstrin homology-like domain, family B, member 2 [Source
8	CHL1	1.89	5e-13	8e-13	48 x 23 cell adhesion molecule L1-like [Source:HGNC Symbol;Acc:H
9	CCDC81	1.88	8e-13	2e-12	48 x 23 coiled-coil domain containing 81 [Source:HGNC Symbol;Acc
10	SDC2	1.85	2e-12	2e-12	49 x 23 syndecan 2 [Source:HGNC Symbol;Acc:HGNC:10659]
11	GAD1	1.84	2e-12	1e-11	48 x 22 glutamate decarboxylase 1 (brain, 67kDa) [Source:HGNC Sym
12	NEGR1	1.79	8e-12	1e-11	48 x 23 neuronal growth regulator 1 [Source:HGNC Symbol;Acc:HGNC
13	TPCN1	1.78	1e-11	1e-11	48 x 23 two pore segment channel 1 [Source:HGNC Symbol;Acc:HGI
14	NFKBIZ	1.76	2e-11	1e-11	49 x 24 nuclear factor of kappa light polypeptide gene enhancer in B-
15	HIST1H2BH	1.76	2e-11	1e-11	49 x 22 histone cluster 1, H2bh [Source:HGNC Symbol;Acc:HGNC:4
16	PLXNB1	1.76	2e-11	1e-11	49 x 21 plexin B1 [Source:HGNC Symbol;Acc:HGNC:9103]
17	KLF7	1.75	2e-11	2e-11	47 x 22 Kruppel-like factor 7 (ubiquitous) [Source:HGNC Symbol;Acc
18	MORC2	1.73	4e-11	2e-11	49 x 24 MORC family CW-type zinc finger 2 [Source:HGNC Symbol;]
19	SPRY1	1.73	4e-11	2e-11	48 x 23 sprouty homolog 1, antagonist of FGF signaling (Drosophila)
20	CCNYL1	1.71	6e-11	2e-11	47 x 23 cyclin Y-like 1 [Source:HGNC Symbol;Acc:HGNC:26868]

p-values



E11_mel

Local Summary

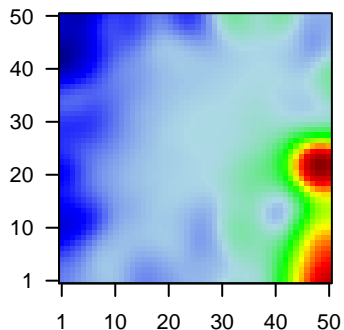
%DE = 0.88
 # metagenes = 2
 # genes = 87
 # genes in genesets = 86

 # genes with $fdr < 0.1$ = 61 (5 + / 56 -)
 # genes with $fdr < 0.05$ = 61 (5 + / 56 -)
 # genes with $fdr < 0.01$ = 47 (5 + / 42 -)

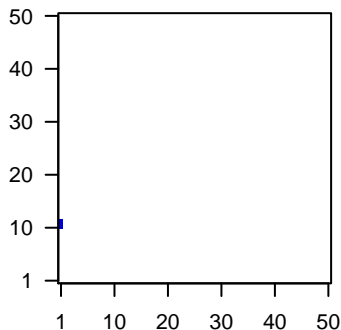
<r> metagenes = 1
 <r> genes = 0.21

 <FC> = -0.51
 <shrinkage-t> = -8.84
 <p-value> = 0
 <fdr> = 0.45

Profile



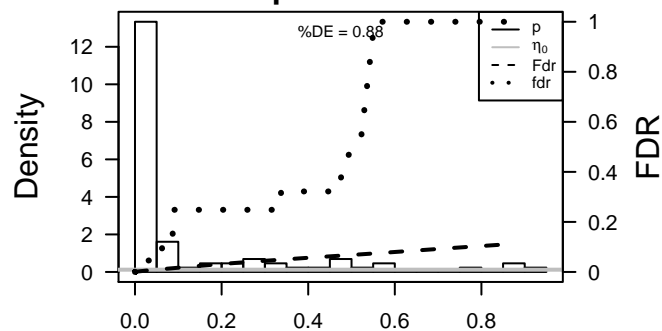
Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	DCT	-1.25	2e-16	1e-15	dopachrome tautomerase [Source:HGNC Symbol;Acc:HGNC]
2	GPR143	-1.46	2e-16	1e-15	G protein-coupled receptor 143 [Source:HGNC Symbol;Acc:HGNC]
3	SEMA6A	-1.05	2e-14	6e-11	sema domain, transmembrane domain (TM), and cytoplasmic
4	OCA2	-1.43	6e-12	2e-10	oculocutaneous albinism II [Source:HGNC Symbol;Acc:HGNC]
5	RAB27A	-1.43	3e-11	4e-09	RAB27A, member RAS oncogene family [Source:HGNC Sym
6	CCDC171	-1.3	4e-10	4e-09	coiled-coil domain containing 171 [Source:HGNC Symbol;Ac
7	SAT1	-0.65	8e-10	8e-08	spermidine/spermine N1-acetyltransferase 1 [Source:HGNC
8	HSPB8	-1.35	8e-09	2e-07	heat shock 22kDa protein 8 [Source:HGNC Symbol;Acc:HGNC]
9	FAM96A	-0.76	2e-08	2e-07	family with sequence similarity 96, member A [Source:HGNC
10	SNAI2	-1.31	4e-08	2e-05	snail family zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:1
11	RASGRP3	1.25	2e-06	5e-05	RAS guanyl releasing protein 3 (calcium and DAG-regulated)
12	BAIAP2	-1.15	6e-06	1e-04	BAI1-associated protein 2 [Source:HGNC Symbol;Acc:HGNC]
13	VEPH1	-1.11	2e-05	1e-04	ventricular zone expressed PH domain-containing 1 [Source:
14	TMEM101	-1.09	3e-05	5e-04	transmembrane protein 101 [Source:HGNC Symbol;Acc:HGNC]
15	C10orf90	-1	1e-04	5e-04	chromosome 10 open reading frame 90 [Source:HGNC Symt
16	SEMA6D	-1	1e-04	5e-04	sema domain, transmembrane domain (TM), and cytoplasmic
17	SOCS6	-0.9	2e-04	9e-04	suppressor of cytokine signaling 6 [Source:HGNC Symbol;Ac
18	SERINC5	-0.93	4e-04	9e-04	serine incorporator 5 [Source:HGNC Symbol;Acc:HGNC:188;
19	SORD	-0.93	4e-04	9e-04	sorbitol dehydrogenase [Source:HGNC Symbol;Acc:HGNC:1
20	LONRF1	-0.9	6e-04	9e-04	LON peptidase N-terminal domain and ring finger 1 [Source:!

p-values



E11_mel

Local Summary

%DE = 0.81
 # metagenes = 55
 # genes = 764
 # genes in genesets = 761

 # genes with $fdr < 0.1$ = 509 (64 + / 445 -)
 # genes with $fdr < 0.05$ = 436 (53 + / 383 -)
 # genes with $fdr < 0.01$ = 309 (31 + / 278 -)

$\langle r \rangle$ metagenes = 0.77

$\langle r \rangle$ genes = 0.15

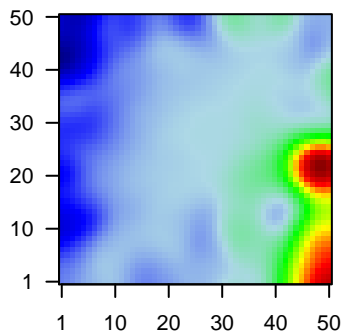
$\langle FC \rangle$ = -0.49

$\langle \text{shrinkage-t} \rangle$ = -9.1

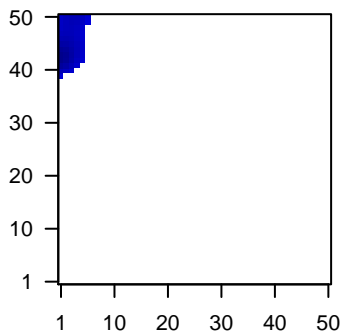
$\langle p\text{-value} \rangle$ = 0

$\langle fdr \rangle$ = 0.45

Profile



Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	ACTL6A	-1.88	2e-16	1e-15	4 x 50 actin-like 6A [Source:HGNC Symbol;Acc:HGNC:24124]
2	ATP1A1	-1.65	2e-16	1e-15	1 x 42 ATPase, Na+/K+ transporting, alpha 1 polypeptide [Source:HGNC Symbol;Acc:HGNC:10000]
3	ATP6V1H	-1.84	2e-16	1e-15	5 x 44 ATPase, H+ transporting, lysosomal 50/57kDa, V1 subunit H [Source:HGNC Symbol;Acc:HGNC:14800]
4	C6orf1	-1.63	2e-16	1e-15	1 x 39 chromosome 6 open reading frame 1 [Source:HGNC Symbol;Acc:HGNC:19100]
5	CAPN3	-1.86	2e-16	1e-15	1 x 43 calpain 3, (p94) [Source:HGNC Symbol;Acc:HGNC:1480]
6	CDK2	-1.65	2e-16	1e-15	1 x 43 cyclin-dependent kinase 2 [Source:HGNC Symbol;Acc:HGNC:10000]
7	CDK4	-0.93	2e-16	1e-15	3 x 44 cyclin-dependent kinase 4 [Source:HGNC Symbol;Acc:HGNC:10000]
8	CKS2	-1.66	2e-16	1e-15	5 x 50 CDC28 protein kinase regulatory subunit 2 [Source:HGNC Symbol;Acc:HGNC:10000]
9	ELP5	-1.64	2e-16	1e-15	3 x 44 elongator acetyltransferase complex subunit 5 [Source:HGNC Symbol;Acc:HGNC:10000]
10	GLRX3	-1.72	2e-16	1e-15	4 x 42 glutaredoxin 3 [Source:HGNC Symbol;Acc:HGNC:15987]
11	GNPDA1	-1.77	2e-16	1e-15	1 x 42 glucosamine-6-phosphate deaminase 1 [Source:HGNC Symbol;Acc:HGNC:10000]
12	GOT1	-1.63	2e-16	1e-15	1 x 39 glutamic-oxaloacetic transaminase 1, soluble [Source:HGNC Symbol;Acc:HGNC:10000]
13	HBS1L	-1.89	2e-16	1e-15	3 x 44 HBS1-like translational GTPase [Source:HGNC Symbol;Acc:HGNC:10000]
14	IDH3A	-2.08	2e-16	1e-15	1 x 42 isocitrate dehydrogenase 3 (NAD+) alpha [Source:HGNC Symbol;Acc:HGNC:10000]
15	IFRD2	-1.76	2e-16	1e-15	1 x 44 interferon-related developmental regulator 2 [Source:HGNC Symbol;Acc:HGNC:10000]
16	MLIP	-1.54	2e-16	1e-15	3 x 44 muscular LMNA-interacting protein [Source:HGNC Symbol;Acc:HGNC:10000]
17	MTCH2	-1.29	2e-16	1e-15	2 x 42 mitochondrial carrier 2 [Source:HGNC Symbol;Acc:HGNC:10000]
18	MTX2	-1.52	2e-16	1e-15	1 x 42 metaxin 2 [Source:HGNC Symbol;Acc:HGNC:7506]
19	NT5DC3	-1.62	2e-16	1e-15	1 x 41 5'-nucleotidase domain containing 3 [Source:HGNC Symbol;Acc:HGNC:10000]
20	PLP1	-1.93	2e-16	1e-15	1 x 42 proteolipid protein 1 [Source:HGNC Symbol;Acc:HGNC:9086]

p-values

