

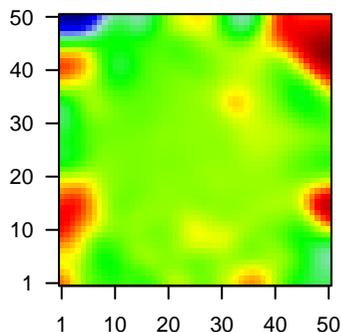
G4_mel

Global Summary

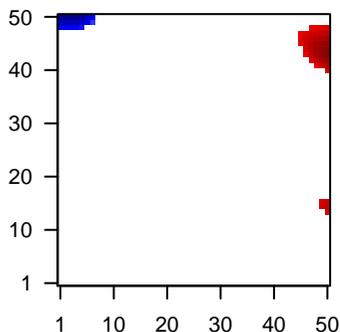
%DE = 0.21
 # genes with $fdr < 0.2$ = 2743 (1667 + / 1076 -)
 # genes with $fdr < 0.1$ = 2133 (1326 + / 807 -)
 # genes with $fdr < 0.05$ = 1729 (1079 + / 650 -)
 # genes with $fdr < 0.01$ = 1149 (722 + / 427 -)
 # genes in genesets = 14839

<FC> = 0
 <shrinkage-t> = 0.04
 <p-value> = 0.08
 <fdr> = 0.79

Profile



Regulated Spots

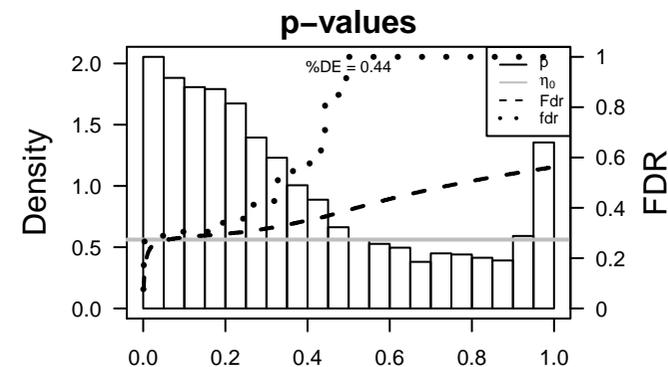
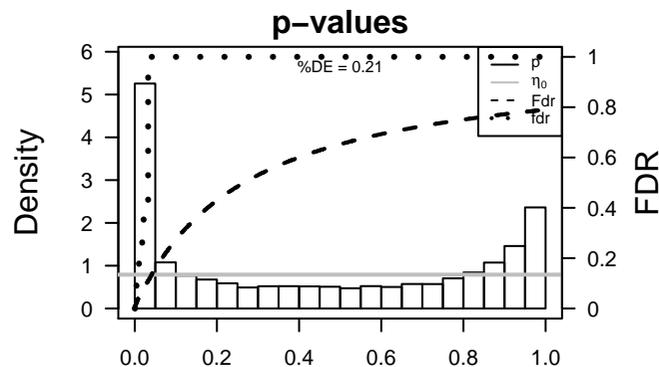


Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	ANKHD1	-1.59	2e-16	1e-13	9 x 5 ankryn repeat and KH domain containing 1 [Source:HGNC S
2	CALU	-0.92	2e-16	1e-13	45 x 36 calumenin [Source:HGNC Symbol;Acc:HGNC:1458]
3	FLII	-1.1	2e-16	1e-13	17 x 50 flightless I homolog (Drosophila) [Source:HGNC Symbol;Acc:
4	GGH	-2.02	2e-16	1e-13	4 x 47 gamma-glutamyl hydrolase (conjugase, folypolygamagluta
5	HMG2	-1.17	2e-16	1e-13	8 x 50 high mobility group nucleosomal binding domain 2 [Source:Hi
6	ING3	-1.55	2e-16	1e-13	5 x 47 inhibitor of growth family, member 3 [Source:HGNC Symbol;A
7	LGALS1	-1.68	2e-16	1e-13	50 x 1 lectin, galactoside-binding, soluble, 1 [Source:HGNC Symbol
8	MRPL28	-1.31	2e-16	1e-13	11 x 3 mitochondrial ribosomal protein L28 [Source:HGNC Symbol;A
9	MRPL52	-1.45	2e-16	1e-13	35 x 50 mitochondrial ribosomal protein L52 [Source:HGNC Symbol;A
10	NASP	-1.43	2e-16	1e-13	1 x 48 nuclear autoantigenic sperm protein (histone-binding) [Sourc
11	NDUFS3	-1.57	2e-16	1e-13	1 x 32 NADH dehydrogenase (ubiquinone) Fe-S protein 3, 30kDa (t
12	NUPR1	-1.58	2e-16	1e-13	45 x 50 nuclear protein, transcriptional regulator, 1 [Source:HGNC Sy
13	PABPC4	-1.54	2e-16	1e-13	50 x 7 poly(A) binding protein, cytoplasmic 4 (inducible form) [Sourc
14	RRM1	-1.58	2e-16	1e-13	2 x 50 ribonucleotide reductase M1 [Source:HGNC Symbol;Acc:HGI
15	SF3A3	-1.72	2e-16	1e-13	12 x 50 splicing factor 3a, subunit 3, 60kDa [Source:HGNC Symbol;A
16	TCF25	-1.59	2e-16	1e-13	1 x 23 transcription factor 25 (basic helix-loop-helix) [Source:HGNC
17	TIMM50	-1.56	2e-16	1e-13	1 x 33 translocase of inner mitochondrial membrane 50 homolog (S.
18	TSG101	-1.36	2e-16	1e-13	46 x 37 tumor susceptibility 101 [Source:HGNC Symbol;Acc:HGNC:1
19	TXNDC9	-1.6	2e-16	1e-13	48 x 36 thioredoxin domain containing 9 [Source:HGNC Symbol;Acc:l
20	VPS25	-1.58	2e-16	1e-13	1 x 45 vacuolar protein sorting 25 homolog (S. cerevisiae) [Source:l

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	4.1	0.007	20	BP cellular response to fibroblast growth factor stimulus
2	4.09	0.007	18	GSEA C2BIOCARTA_IL2_PATHWAY
3	4.01	0.007	426	GSEA C2ZWANG_CLASS_1_TRANSIENTLY_INDUCED_BY_EGF
4	3.96	0.008	65	miRNA target-miR-9*
5	3.89	0.008	56	GSEA C2BURTON_ADIPOGENESIS_11
6	3.79	0.009	5	GSEA C2M_SREBF1A_TARGETS
7	3.74	0.009	26	MF protein kinase inhibitor activity
8	3.69	0.010	195	miRNA target-miR-206
9	3.67	0.010	723	GSEA C2REACTOME_IMMUNE_SYSTEM
10	3.61	0.010	21	miRNA target-miR-554
11	3.58	0.011	7	GSEA C2HESSON_TUMOR_SUPPRESSOR_CLUSTER_3P21_3
12	3.54	0.011	34	GSEA C2SPIRA_SMOKERS_LUNG_CANCER_UP
13	3.46	0.012	33	GSEA C2BIOCARTA_AT1R_PATHWAY
14	3.45	0.012	16	GSEA C2REACTOME_ERK_MAPK_TARGETS
15	3.44	0.012	43	GSEA C2PAPASPYRIDONOS_UNSTABLE_ATEROSCLEROTIC_PLAQUE_
16	3.39	0.013	32	GSEA C2BIOCARTA_IL2R2B_PATHWAY
17	3.39	0.013	79	GSEA C2NELSON_RESPONSE_TO_ANDROGEN_UP
18	3.37	0.013	80	GSEA C2KEGG_ERBB_SIGNALING_PATHWAY
19	3.32	0.014	11	BP positive regulation of protein sumoylation
20	3.3	0.014	19	GSEA C2MIZUSHIMA_AUTOPHAGOSOME_FORMATION
<i>Underexpressed</i>				
1	-13.92	7e-05	305	GSEA C2DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
2	-13.67	7e-05	142	Glio WILLSCHER_GBM_Verhaak-CL_up (C
3	-12.09	1e-04	96	GSEA C2CROONQUIST_IL6_DEPRIVATION_DN
4	-11.9	1e-04	550	GSEA C2SOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
5	-11.35	2e-04	197	HM HALLMARK_E2F_TARGETS
6	-11.35	2e-04	81	GSEA C2GRAHAM_NORMAL QUIESCENT_VS_NORMAL_DIVIDING_DN
7	-10.74	2e-04	139	GSEA C2ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
8	-10.64	2e-04	99	GSEA C2BURTON_ADIPOGENESIS_3
9	-10.23	2e-04	242	GSEA C2KOBAYASHI_EGFR_SIGNALING_24HR_DN
10	-10.22	2e-04	89	GSEA C2MORI_IMMATURE_B_LYMPHOCYTE_DN
11	-10.14	2e-04	155	GSEA C2HOFFMANN_LARGE_TO_SMALL_PRE_BIL_LYMPHOCYTE_UP
12	-10.1	3e-04	72	GSEA C2CROONQUIST_NRAS_SIGNALING_DN
13	-10.07	3e-04	50	GSEA C2SHIDA_E2F_TARGETS
14	-9.82	3e-04	162	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL QUIESCENT_UP
15	-9.82	3e-04	54	GSEA C2KANG_DOXORUBICIN_RESISTANCE_UP
16	-9.79	3e-04	110	GSEA C2WHITEFORD_PEDIATRIC_CANCER_MARKERS
17	-9.68	3e-04	124	GSEA C2ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR
18	-9.19	4e-04	93	GSEA C2KONG_E2F3_TARGETS
19	-9.06	4e-04	390	GSEA C2PUJANA_BRCA2_PCC_NETWORK
20	-9.01	2e-02	16	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP



G4_mel

Local Summary

%DE = 0.62
 # metagenes = 5
 # genes = 68
 # genes in genesets = 68

 # genes with $fdr < 0.1$ = 39 (38 + / 1 -)
 # genes with $fdr < 0.05$ = 35 (34 + / 1 -)
 # genes with $fdr < 0.01$ = 27 (26 + / 1 -)

<r> metagenes = 0.98

<r> genes = 0.11

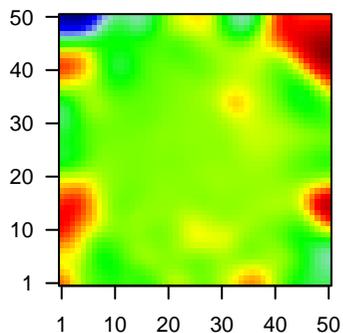
<FC> = 0.54

<shrinkage-t> = 8.55

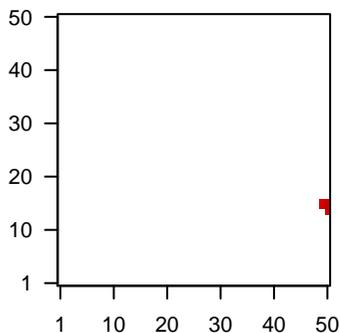
<p-value> = 0

<fdr> = 0.46

Profile



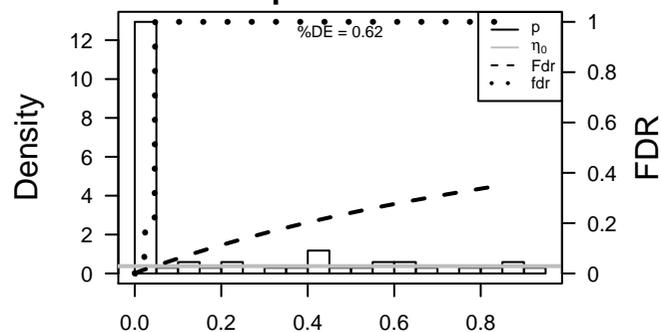
Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	RASA2	1.59	1e-11	3e-10	50 x 14 RAS p21 protein activator 2 [Source:HGNC Symbol;Acc:HGNC:10000]
2	HYAL2	1.56	2e-11	2e-08	50 x 16 hyaluronoglucosaminidase 2 [Source:HGNC Symbol;Acc:HGNC:10000]
3	SLC16A4	1.43	8e-10	1e-06	50 x 16 solute carrier family 16, member 4 [Source:HGNC Symbol;Acc:HGNC:10000]
4	AP4B1	1.26	6e-08	5e-06	50 x 16 adaptor-related protein complex 4, beta 1 subunit [Source:HGNC Symbol;Acc:HGNC:10000]
5	ZNF211	1.2	3e-07	2e-05	50 x 16 zinc finger protein 211 [Source:HGNC Symbol;Acc:HGNC:10000]
6	BICD1	1.12	2e-06	2e-05	50 x 16 bicaudal D homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:HGNC:10000]
7	AKAP8L	1.09	3e-06	2e-05	50 x 16 A kinase (PRKA) anchor protein 8-like [Source:HGNC Symbol;Acc:HGNC:10000]
8	PRELID2	1.08	3e-06	2e-05	50 x 16 PRELI domain containing 2 [Source:HGNC Symbol;Acc:HGNC:10000]
9	XPA	1.08	3e-06	1e-04	50 x 14 xeroderma pigmentosum, complementation group A [Source:HGNC Symbol;Acc:HGNC:10000]
10	GALK1	1.03	1e-05	1e-04	49 x 16 galactokinase 1 [Source:HGNC Symbol;Acc:HGNC:4118]
11	TBC1D23	0.98	2e-05	1e-04	50 x 15 TBC1 domain family, member 23 [Source:HGNC Symbol;Acc:HGNC:10000]
12	ARHGEF1	0.98	3e-05	1e-04	50 x 16 Rho guanine nucleotide exchange factor (GEF) 1 [Source:HGNC Symbol;Acc:HGNC:10000]
13	FAM134C	0.98	3e-05	1e-04	49 x 15 family with sequence similarity 134, member C [Source:HGNC Symbol;Acc:HGNC:10000]
14	PPP2R2A	0.98	3e-05	3e-04	50 x 15 protein phosphatase 2, regulatory subunit B, alpha [Source:HGNC Symbol;Acc:HGNC:10000]
15	RRM2B	0.95	5e-05	3e-04	50 x 15 ribonucleotide reductase M2 B (TP53 inducible) [Source:HGNC Symbol;Acc:HGNC:10000]
16	HIST2H2BE	0.94	5e-05	3e-04	49 x 15 histone cluster 2, H2be [Source:HGNC Symbol;Acc:HGNC:4118]
17	FAM32A	0.82	6e-05	8e-04	49 x 16 family with sequence similarity 32, member A [Source:HGNC Symbol;Acc:HGNC:10000]
18	PAPOLG	0.9	1e-04	8e-04	50 x 15 poly(A) polymerase gamma [Source:HGNC Symbol;Acc:HGNC:10000]
19	CDC37L1	0.88	2e-04	8e-04	50 x 15 cell division cycle 37-like 1 [Source:HGNC Symbol;Acc:HGNC:10000]
20	RBM34	0.69	2e-04	8e-04	50 x 16 RNA binding motif protein 34 [Source:HGNC Symbol;Acc:HGNC:10000]

p-values



G4_mel

Local Summary

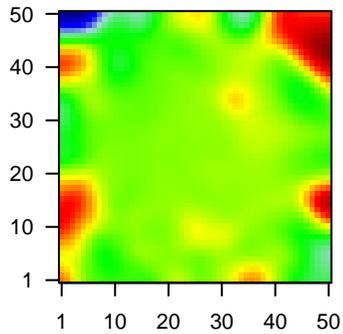
%DE = 0.82
 # metagenes = 40
 # genes = 379
 # genes in genesets = 378

 # genes with $fdr < 0.1$ = 221 (185 + / 36 -)
 # genes with $fdr < 0.05$ = 204 (173 + / 31 -)
 # genes with $fdr < 0.01$ = 143 (126 + / 17 -)

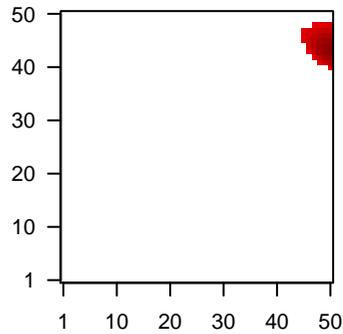
$\langle r \rangle$ metagenes = 0.82
 $\langle r \rangle$ genes = 0.07

 $\langle FC \rangle$ = 0.3
 $\langle \text{shrinkage-t} \rangle$ = 4.89
 $\langle p\text{-value} \rangle$ = 0.01
 $\langle fdr \rangle$ = 0.53

Profile



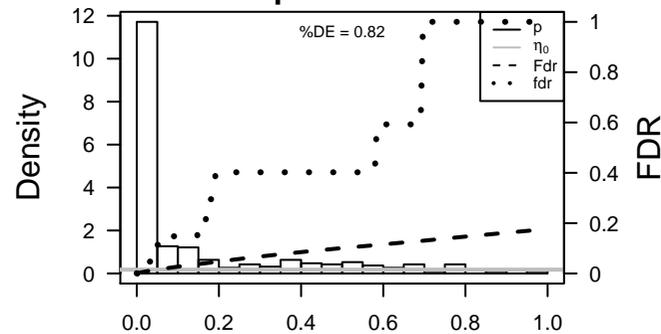
Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	GSDMB	1.66	1e-12	2e-09	50 x 47 gasdermin B [Source:HGNC Symbol;Acc:HGNC:23690]
2	DENND2D	1.53	5e-11	2e-09	46 x 45 DENN/MADD domain containing 2D [Source:HGNC Symbol;Acc:HGNC:23690]
3	XRN1	-1.36	6e-11	2e-09	47 x 45 5'-3' exoribonuclease 1 [Source:HGNC Symbol;Acc:HGNC:30828]
4	CCT6B	1.51	1e-10	4e-08	50 x 44 chaperonin containing TCP1, subunit 6B (zeta 2) [Source:HGNC Symbol;Acc:HGNC:23690]
5	KARS	-1.07	7e-10	1e-06	45 x 46 lysyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:62052]
6	VASP	1.3	2e-08	1e-06	48 x 45 vasodilator-stimulated phosphoprotein [Source:HGNC Symbol;Acc:HGNC:23690]
7	PXYLP1	1.29	3e-08	2e-06	46 x 44 2-phosphoxylose phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:23690]
8	STYXL1	1.26	7e-08	2e-06	49 x 43 serine/threonine/tyrosine interacting-like 1 [Source:HGNC Symbol;Acc:HGNC:23690]
9	GTF2H3	1.24	9e-08	2e-06	48 x 43 general transcription factor IIH, polypeptide 3, 34kDa [Source:HGNC Symbol;Acc:HGNC:23690]
10	MIB2	1.22	2e-07	2e-06	50 x 41 mindbomb E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:HGNC:23690]
11	ZFP1	1.21	2e-07	2e-06	50 x 41 ZFP1 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:23690]
12	HMGCL	1.21	2e-07	2e-06	50 x 42 3-hydroxymethyl-3-methylglutaryl-CoA lyase [Source:HGNC Symbol;Acc:HGNC:23690]
13	DEPDC5	1.21	2e-07	6e-06	50 x 41 DEP domain containing 5 [Source:HGNC Symbol;Acc:HGNC:23690]
14	NRDE2	1.19	4e-07	6e-06	50 x 44 NRDE-2, necessary for RNA interference, domain containing
15	ACER3	1.17	5e-07	6e-06	50 x 45 alkaline ceramidase 3 [Source:HGNC Symbol;Acc:HGNC:16048]
16	RNF170	1.16	6e-07	6e-06	47 x 48 ring finger protein 170 [Source:HGNC Symbol;Acc:HGNC:25000]
17	DAPP1	1.16	6e-07	6e-06	48 x 44 dual adaptor of phosphotyrosine and 3-phosphoinositides [Source:HGNC Symbol;Acc:HGNC:23690]
18	CTNS	1.16	6e-07	6e-06	46 x 47 cystinosis, lysosomal cystine transporter [Source:HGNC Symbol;Acc:HGNC:23690]
19	KANK1	1.15	8e-07	6e-06	50 x 41 KN motif and ankyrin repeat domains 1 [Source:HGNC Symbol;Acc:HGNC:23690]
20	CEP68	1.15	9e-07	6e-06	50 x 42 centrosomal protein 68kDa [Source:HGNC Symbol;Acc:HGNC:23690]

p-values



G4_mel

Local Summary

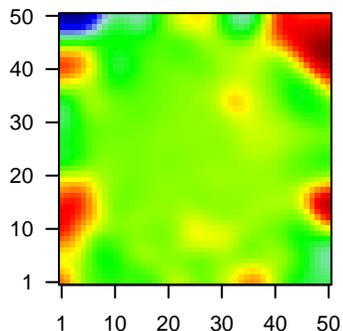
%DE = 0.89
 # metagenes = 19
 # genes = 318
 # genes in genesets = 317

 # genes with $fdr < 0.1$ = 244 (22 + / 222 -)
 # genes with $fdr < 0.05$ = 208 (13 + / 195 -)
 # genes with $fdr < 0.01$ = 138 (8 + / 130 -)

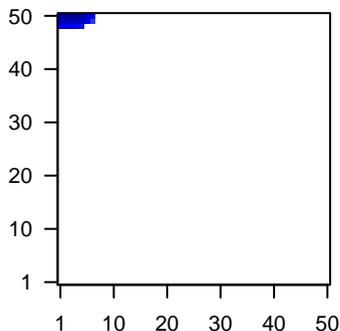
$\langle r \rangle$ metagenes = 0.94
 $\langle r \rangle$ genes = 0.31

 $\langle FC \rangle$ = -0.5
 $\langle \text{shrinkage-t} \rangle$ = -8.01
 $\langle p\text{-value} \rangle$ = 0
 $\langle fdr \rangle$ = 0.46

Profile



Spot



Local Genelist

Rank	ID	log(FC)	p-value	fdr	Description
1	NASP	-1.43	2e-16	4e-15	1 x 48 nuclear autoantigenic sperm protein (histone-binding) [Source:HGNC Symbol;Acc:HGNC:10000]
2	RRM1	-1.58	2e-16	4e-15	2 x 50 ribonucleotide reductase M1 [Source:HGNC Symbol;Acc:HGNC:10000]
3	CDKN3	-1.39	1e-15	3e-14	6 x 50 cyclin-dependent kinase inhibitor 3 [Source:HGNC Symbol;Acc:HGNC:10000]
4	FANCL	-1.52	2e-15	8e-13	1 x 48 Fanconi anemia, complementation group L [Source:HGNC Symbol;Acc:HGNC:10000]
5	STMN1	-0.72	2e-14	7e-11	5 x 50 stathmin 1 [Source:HGNC Symbol;Acc:HGNC:6510]
6	NUP54	-1.41	4e-12	7e-11	1 x 50 nucleoporin 54kDa [Source:HGNC Symbol;Acc:HGNC:17359]
7	HADH	-1.41	4e-12	3e-10	1 x 48 hydroxyacyl-CoA dehydrogenase [Source:HGNC Symbol;Acc:HGNC:10000]
8	RFC5	-1.39	1e-11	1e-08	2 x 50 replication factor C (activator 1) 5, 36.5kDa [Source:HGNC Symbol;Acc:HGNC:10000]
9	TK1	-1.18	3e-10	1e-08	4 x 50 thymidine kinase 1, soluble [Source:HGNC Symbol;Acc:HGNC:10000]
10	MCM7	-1.29	1e-09	1e-08	2 x 50 minichromosome maintenance complex component 7 [Source:HGNC Symbol;Acc:HGNC:10000]
11	PCNA	-1.06	1e-09	1e-08	2 x 50 proliferating cell nuclear antigen [Source:HGNC Symbol;Acc:HGNC:10000]
12	EXOSC9	-1.29	1e-09	1e-08	1 x 50 exosome component 9 [Source:HGNC Symbol;Acc:HGNC:91]
13	KIAA0101	-1.29	1e-09	8e-08	3 x 50 KIAA0101 [Source:HGNC Symbol;Acc:HGNC:28961]
14	BIRC5	-1.23	5e-09	8e-08	6 x 50 baculoviral IAP repeat containing 5 [Source:HGNC Symbol;Acc:HGNC:10000]
15	SMC2	-1.25	6e-09	2e-07	5 x 50 structural maintenance of chromosomes 2 [Source:HGNC Symbol;Acc:HGNC:10000]
16	C19orf48	-1.23	1e-08	2e-07	1 x 50 chromosome 19 open reading frame 48 [Source:HGNC Symbol;Acc:HGNC:10000]
17	HELLS	-1.23	2e-08	2e-07	1 x 50 helicase, lymphoid-specific [Source:HGNC Symbol;Acc:HGNC:10000]
18	CENPK	-1.23	2e-08	2e-07	3 x 50 centromere protein K [Source:HGNC Symbol;Acc:HGNC:294]
19	ORC6	-1.18	3e-08	2e-07	1 x 50 origin recognition complex, subunit 6 [Source:HGNC Symbol;Acc:HGNC:10000]
20	CENPN	-1.21	3e-08	5e-07	4 x 50 centromere protein N [Source:HGNC Symbol;Acc:HGNC:308]

p-values

