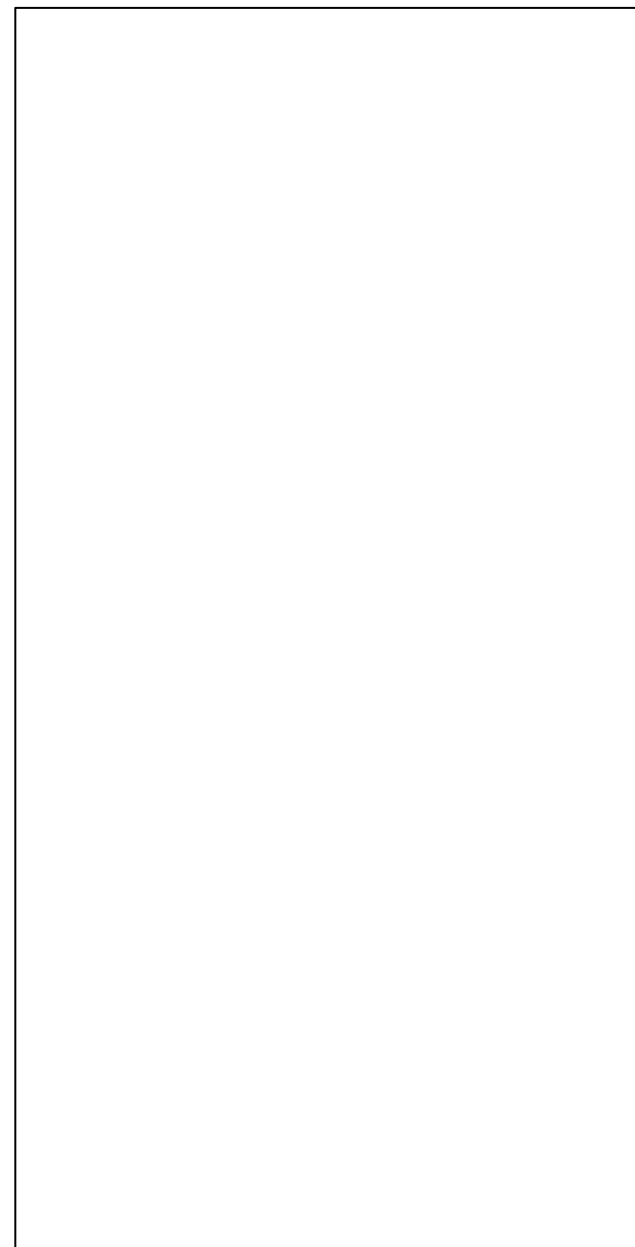
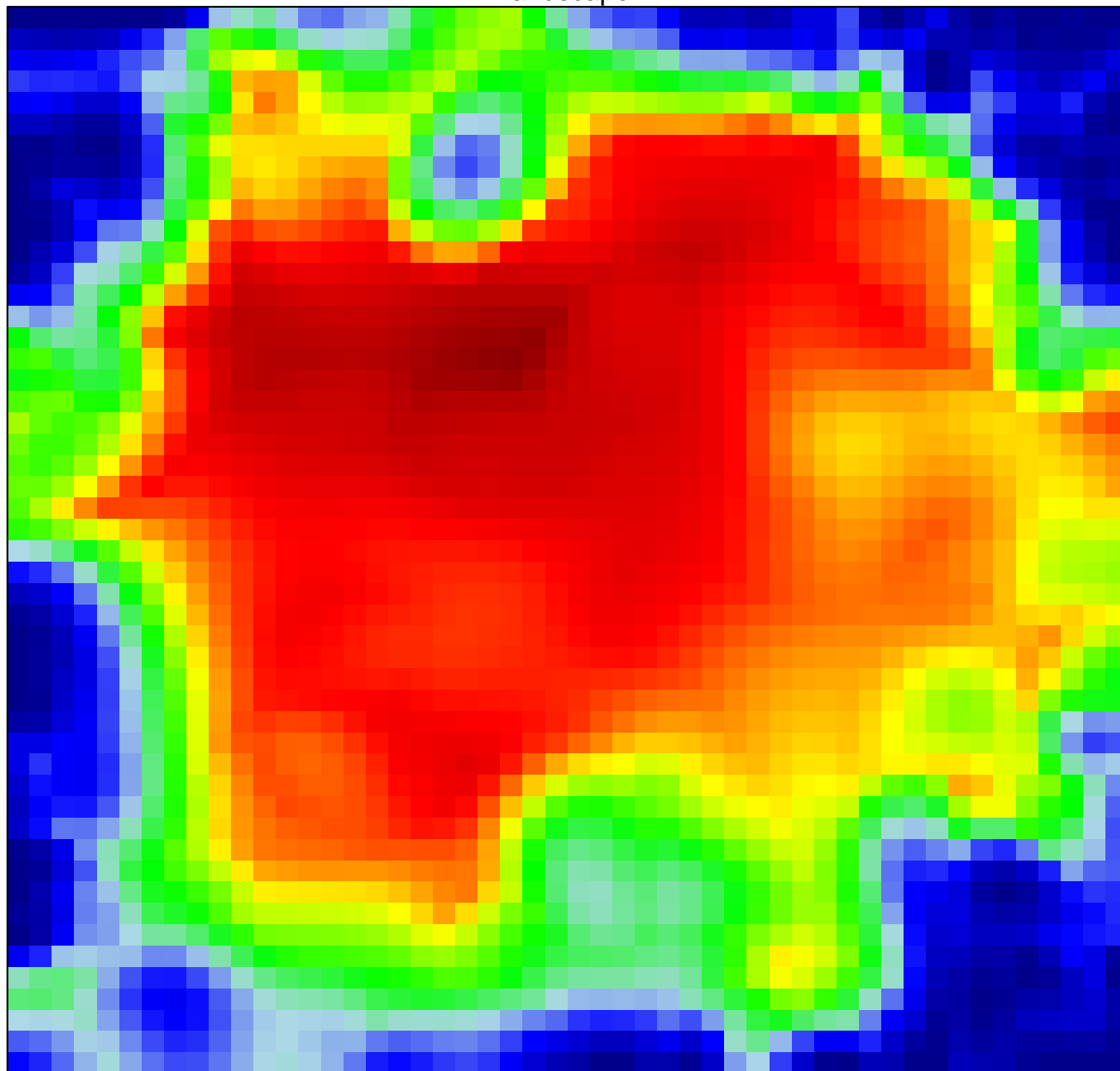


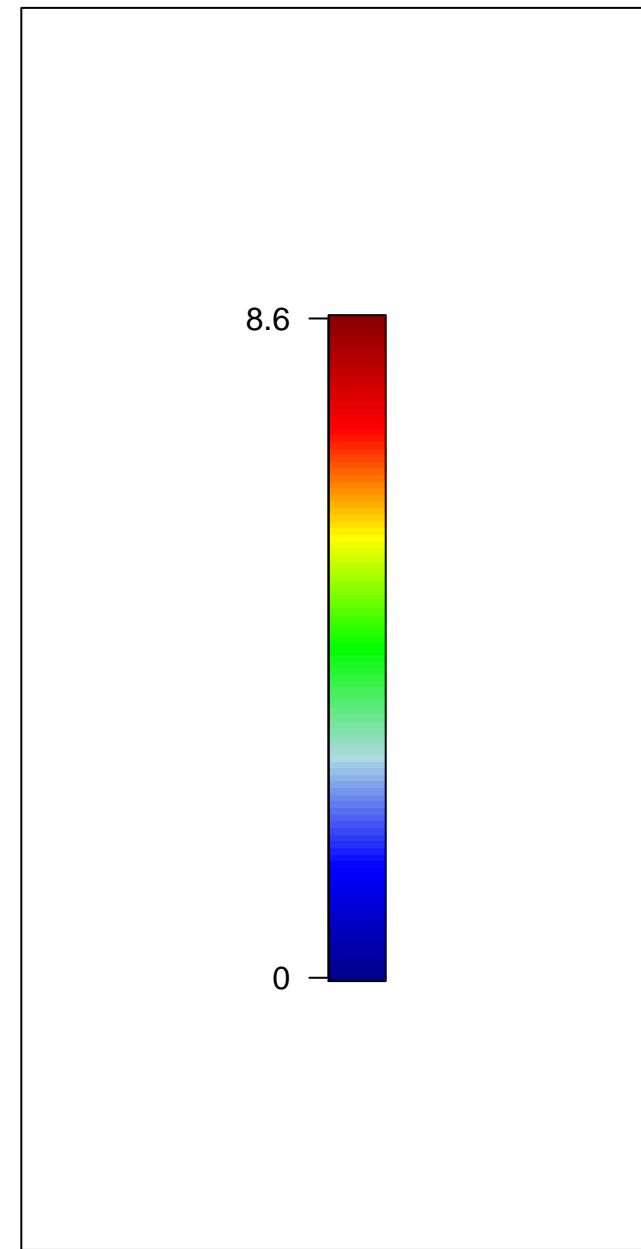
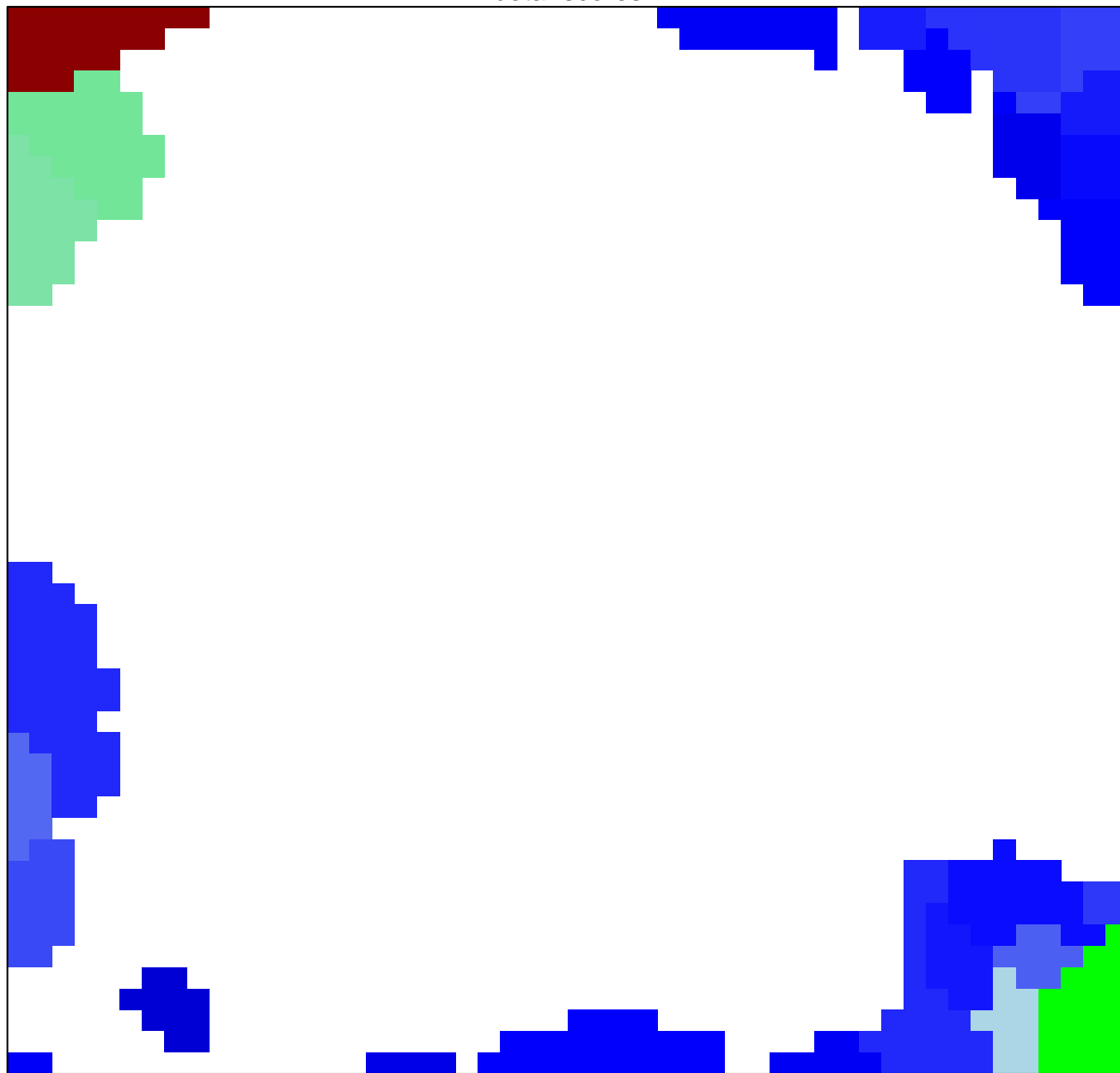
Underexpression Spots

landscape



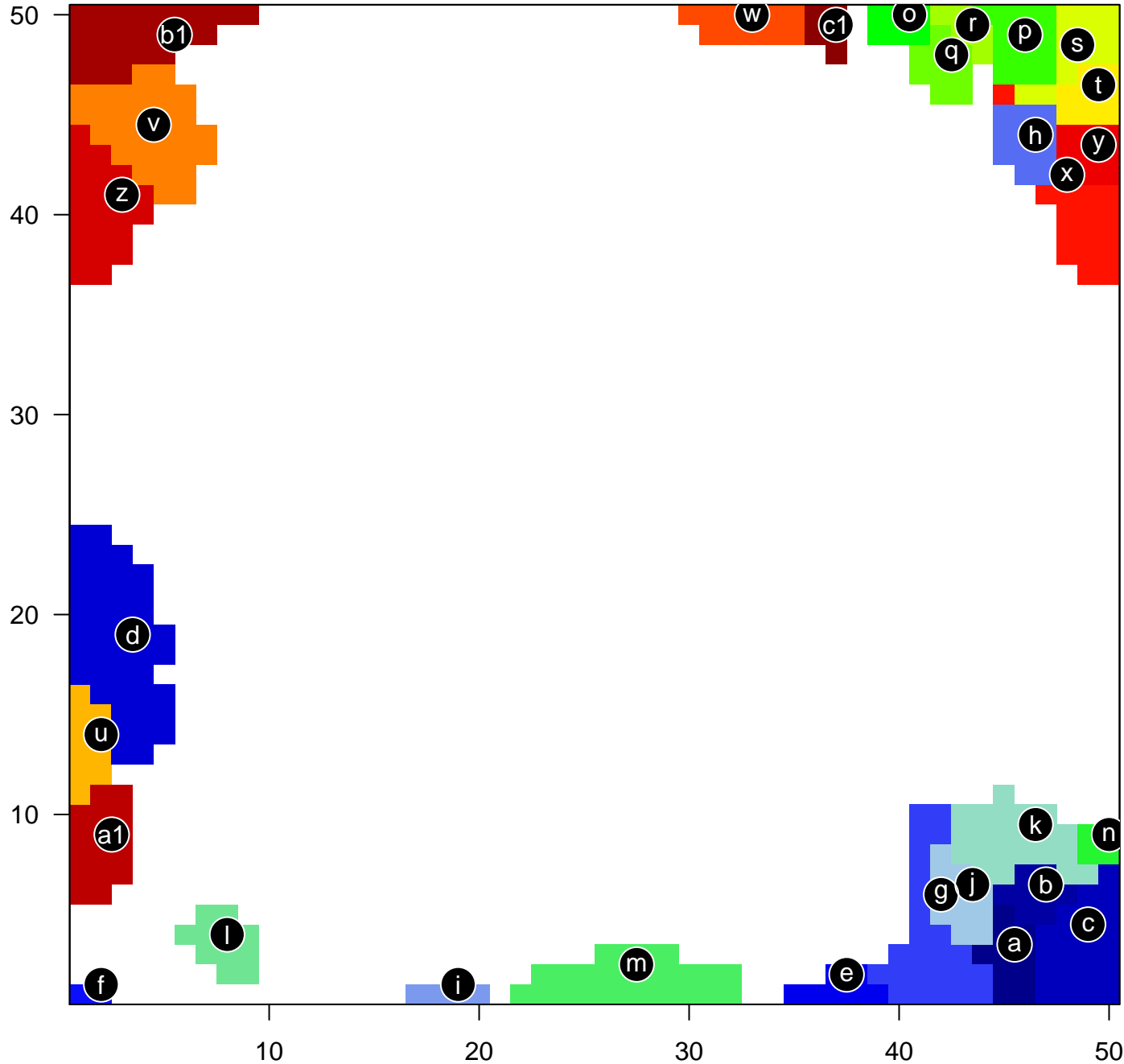
Underexpression Spots

beta-scores



Underexpression Spots

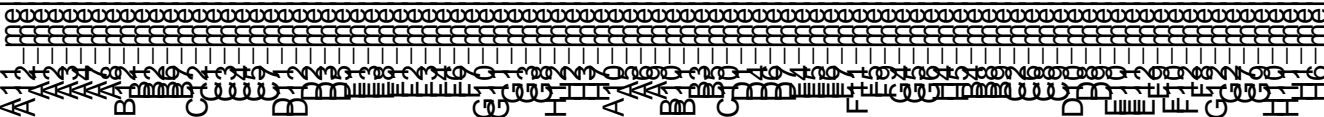
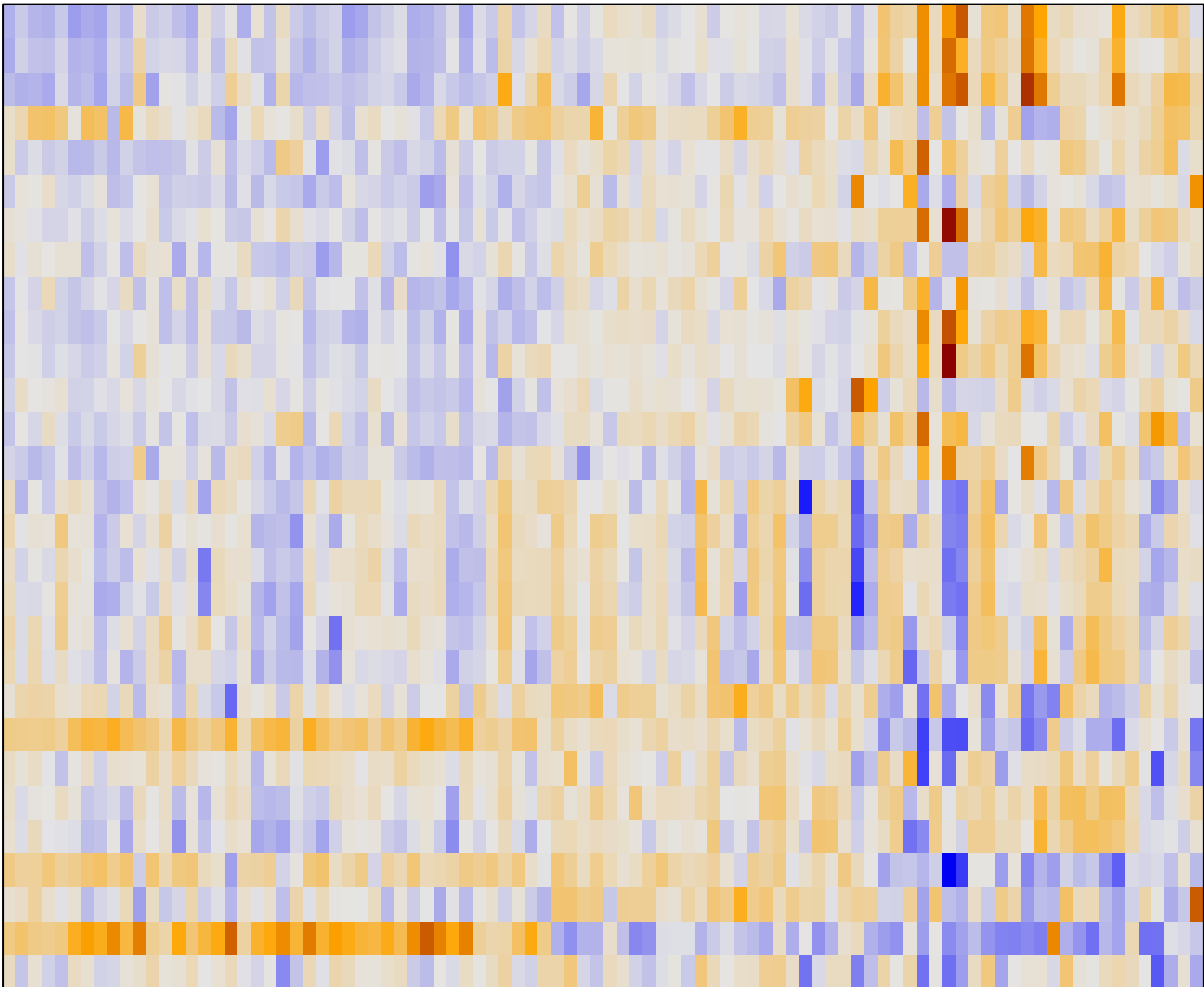
annotation



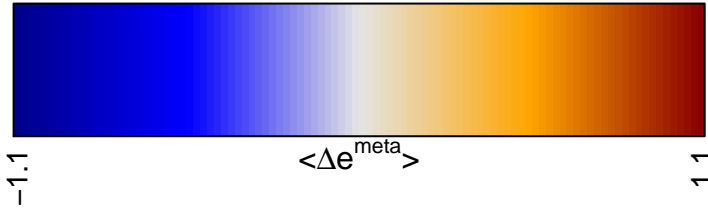
- a PASINI_SUZ12_TARGETS_DN
CUI_TCF21_TARGETS_2_DN
focal adhesion
- b DUMEAUX_Fasting enriched genes
CHUNG_BLISTER_CYTOTOXICITY_DN
hsa-miR-410
- c DUTERTRE ESTRADIOL_RESPONSE_24HR_DN
PASINI_SUZ12_TARGETS_DN
WONG_ADULT_TISSUE_STEM_MODULE
- d TssA_Colon
Overlap_fetal_midbrain_K9K27me3
KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
- e HOPP_Txn_elongation
TxWk_Colon
HOPP_Active_promoter
- f Overlap_fetal_midbrain_HetRpts
TxWk_Colon
HOPP_Txn_elongation
- g BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
Overlap_fetal_midbrain_K9K27me3
hsa-miR-302c
- h TxWk_Colon
ICGC_Bclaf101388_targets
Tx_Colon
- i TxWk_Colon
GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_DN
zinc II ion transport
- j JOHNSTONE_PARVB_TARGETS_3_UP
ICGC_Six5_targets
hsa-miR-7
- k SESTO_RESPONSE_TO_UV_C5
Overlap_fetal_midbrain_HetRpts
DUTERTRE ESTRADIOL_RESPONSE_24HR_DN
- l Overlap_fetal_midbrain_HetRpts
ubiquitin-specific protease activity
SILIGAN_BOUND_BY_EWS_FLT1_FUSION
- m protein targeting to Golgi
intracellular transport
aldo-keto reductase (NADP) activity
- n negative regulation of autophagy
VALK_AML_WITH_FLT3_ITD
hsa-miR-92b
- o TssA_Colon
HOPP_Txn_elongation
HOPP_Active_promoter
- p TssA_Colon



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b1
c1

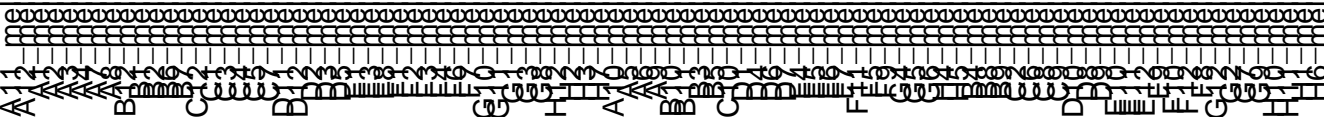
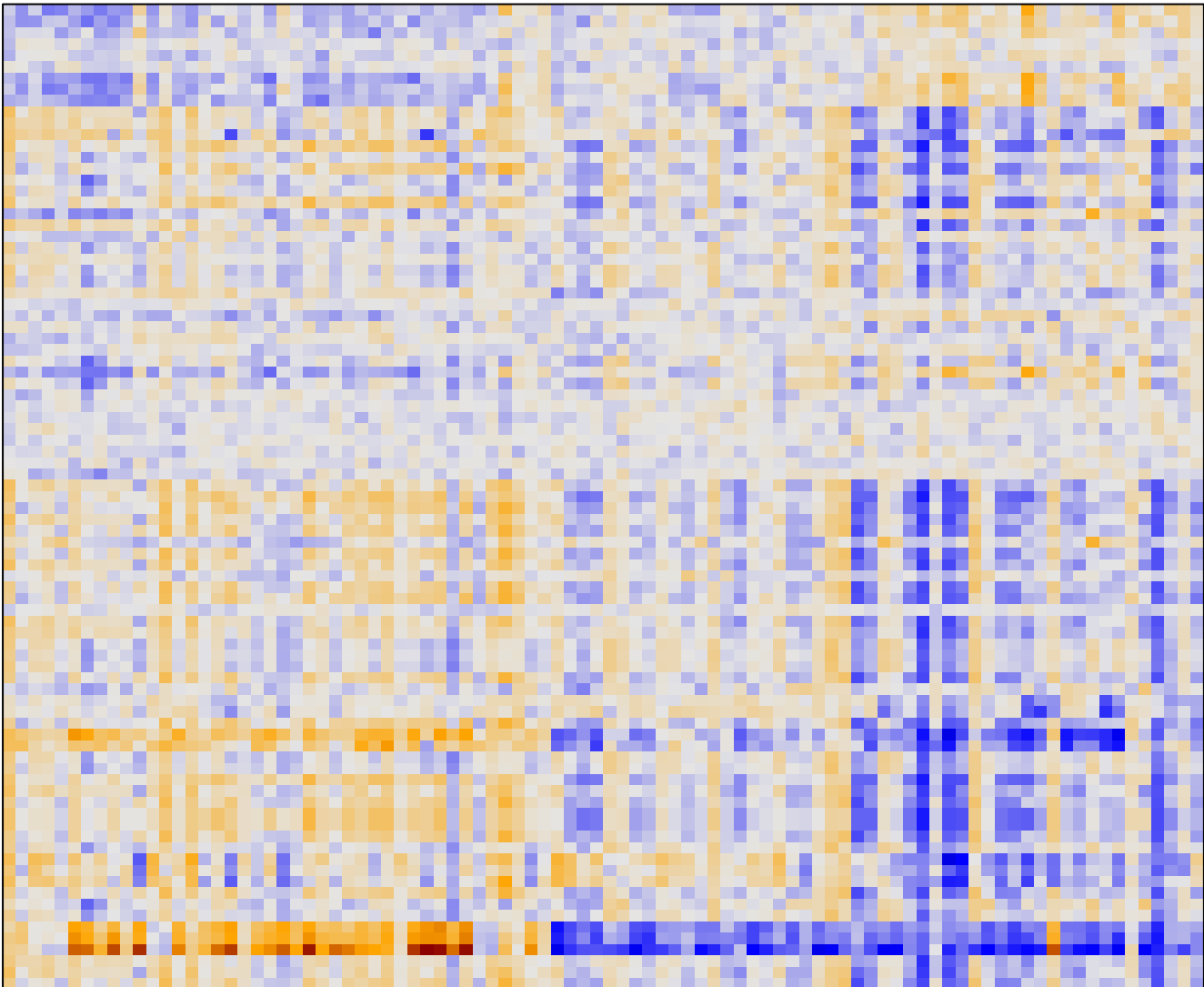


PASINI_SUZ12_TARGETS_DN
 LOCAT_adhesion TARGETS_2_DN
 CHUNG_BLIFFER_CYTOTOXICITY_DN
 nsa-mir-210
 DUTERTRE_ESTRADIOL_RESPONSE_24HR_DN
 WONG_ADULT_TISSUE_STEM_MODULE
 TSSA_Colon_midbrain_K9K27me3
 Overlap_fetal_midbrain_ReprPC
 HOPP_Txn_elongation
 HOPP_Active_promoter
 Overlap_fetal_midbrain_HetRpts
 HOPP_Txn_elongation
 BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
 Overlap_fetal_midbrain_K9K27me3
 nsa-mir-502c
 KGC_Colon_01388_targets
 Tx_Colon
 TXWK_Colon
 zinc_finger_transcript
 JOHNSTONE_PARVB_TARGETS_3_UP
 KGC_Txn_targets
 nsa-mir-92b
 Overlap_fetal_midbrain_HetRpts
 DUTERTRE_ESTRADIOL_RESPONSE_24HR_DN
 Overlap_fetal_midbrain_HetRpts
 SHUGAN_BOUND_BY_EWS_FL1_FUSION
 protein_targeting_to_Golgi
 ald-keto_reductase_(NADP)_activity
 negative_regulation_of_autophagy
 WITH_FL1_HD
 nsa-mir-92b
 TSSA_Colon
 HOPP_Active_promoter
 TSSA_Colon_midbrain_ReprPC
 BLUM_RESPONSE_TO_SALIRASIB_UP
 Overlap_fetal_midbrain_ReprPC
 tRNA_binding
 Overlap_fetal_midbrain_ReprPC
 neuron_development
 TSSA_Colon_midbrain_K9K27me3
 Tx_Colon
 TXWK_Colon
 Overlap_fetal_midbrain_ReprPC
 Overlap_fetal_midbrain_ReprPCWk
 melanocyte_differentiation
 HOPP_Active_promoter
 DJANA_BAREPC_NETWORK
 LEE_BMP2_TARGETS_DN
 Tx_Colon
 HOPP_Txn_elongation
 TSSA_Colon_midbrain_ReprPC
 Overlap_fetal_midbrain_ReprPC
 HOPP_Txn_elongation
 Overlap_fetal_midbrain_ReprPC
 TXWK_Colon
 HALKMARK_OXIDATIVE_PHOSPHORYLATION
 mitochondrion
 Overlap_fetal_midbrain_ReprPC
 TXWK_Colon
 cell_cycle
 WILLSCHER_GBM_Verhaak_CL_up(C)
 Overlap_fetal_midbrain_K9K27me3
 Overlap_fetal_midbrain_ReprPC

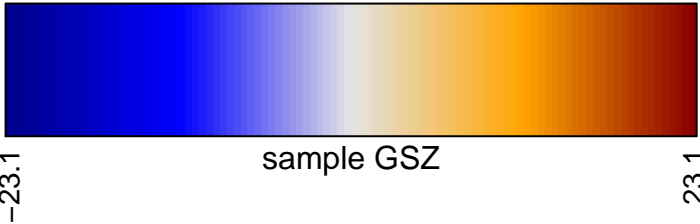




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a1
b1
c1



PASINI_SUZ12_TARGETS_DN
FOCAL ADHESION TARGETS_2_DN
DUAL ACTION FASTING ENRICHED GENES
CHUNG_BIESTER_CYTOTOXICITY_DN
NSA-miR-210
DUTERRE ESTRADIOL_RESPONSE_24HR_DN
WONG_ADULT_TISSUE_STEM_MODULE
TSSA_Colon
Overlap fetal_midbrain_K9K27me3
Overlap fetal_midbrain_ReprPC
HOPP_Txn_elongation
HOPP_Active_promoter
Overlap fetal_midbrain_HetRpts
HOPP_Txn_elongation
BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
Overlap fetal_midbrain_K9K27me3
NSA-miR-302c
ICGC_Bolan01388_targets
Tx_Colon
GVX_Colon
zinc_transport
JOHNSTONE_PARVB_TARGETS_3_UP
ICGC_Tx3_targets
NSA-miR
RESPONSE_TO_LIV_C5
DUTERRE ESTRADIOL_RESPONSE_24HR_DN
Overlap fetal_midbrain_HetRpts
SHUGAN_BOUND_BY_EWS_FLY1_FUSION
protein_targeting_to_Golgi
intracellular_transport
ald-keto_reductase_(NADP)_activity
negative_regulation_of_autophagy
NSA-miR-92b
TSSA_Colon
HOPP_Active_promoter
TSSA_Colon
Overlap fetal_midbrain_ReprPC
BLUM_RESPONSE_TO_SALIXASIB_UP
Overlap fetal_midbrain_ReprPC
tRNA_binding
Overlap fetal_midbrain_ReprPC
neuron_development
TSSA_Colon
Overlap fetal_midbrain_K9K27me3
Tx_Colon
Tx_Colon
Overlap fetal_midbrain_ReprPC
Overlap fetal_midbrain_ReprPCWk
mitochondrial_differentiation
HOPP_Active_promoter
DJANA_PRR4_PCC_NETWORK
LEE_BMP2_TARGETS_DN
Tx_Colon
HOPP_Txn_elongation
TSSA_Colon
Overlap fetal_midbrain_ReprPC
HOPP_Txn_elongation
Overlap fetal_midbrain_ReprPC
Tx_Colon
HALLMARK_OXIDATIVE_PHOSPHORYLATION
mitochondrion
Overlap fetal_midbrain_ReprPC
Tx_Colon
cell_cycle
WILLSCHER_GBM_Verhaak_CL_up(C)
Overlap fetal_midbrain_K9K27me3
Overlap fetal_midbrain_ReprPC



Underexpression Spots

Spot Summary: a

metagenes = 10
genes = 115

<r> metagenes = 0.98
<r> genes = 0.17
beta: r2= 2.87 / log p= -Inf

samples with spot = 11 (12 %)
MSC3 : 11 (44 %)

Spot Genelist

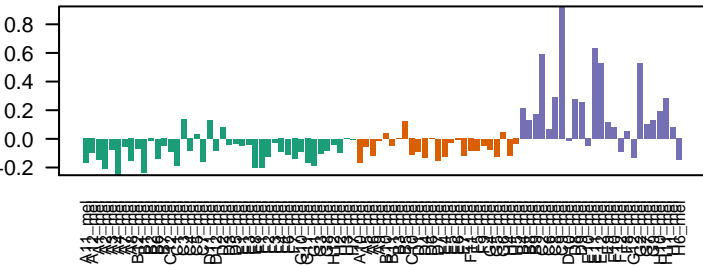
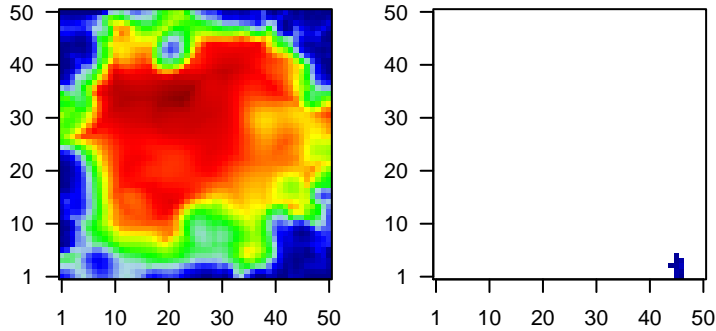
Rank	ID	max e	r	min e	Description
1	METTL8	2.02	-0.64	0.29	METTL8 methyltransferase like 8 [Source:HGNC Symbol;Acc:HGNC:2
2	PRICKLE2	1.91	-0.42	0.54	PRICKLE2 prickly homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:H
3	NCKIPSD	1.86	-0.24	0.36	NCKIPSD NCK interacting protein with SH3 domain [Source:HGNC Syn
4	PEG10	1.83	-0.45	0.45	PEG10 paternally expressed 10 [Source:HGNC Symbol;Acc:HGNC:1
5	CDH6	1.82	-0.11	0.47	CDH6 cadherin 6, type 2, K-cadherin (fetal kidney) [Source:HGNC :
6	HIST1H2BF	1.82	-0.29	0.39	HIST1H2BF histone cluster 1, H2bf [Source:HGNC Symbol;Acc:HGNC:47
7	TLE4	1.76	-0.24	0.48	TLE4 transducin-like enhancer of split 4 [Source:HGNC Symbol;Ac
8	PRRG1	1.74	-0.59	0.47	PRRG1 proline rich Gla (G-carboxyglutamic acid) 1 [Source:HGNC S
9	KIF13A	1.73	-0.39	0.38	KIF13A kinesin family member 13A [Source:HGNC Symbol;Acc:HGN
10	OLR1	1.73	-0.06	0.66	OLR1 oxidized low density lipoprotein (lectin-like) receptor 1 [Sourc
11	NTN4	1.72	-0.1	0.76	NTN4 netrin 4 [Source:HGNC Symbol;Acc:HGNC:13658]
12	FLNB	1.72	-0.52	0.34	FLNB filamin B, beta [Source:HGNC Symbol;Acc:HGNC:3755]
13	FAM171B	1.72	-0.76	0.36	FAM171B family with sequence similarity 171, member B [Source:HGNC
14	MCAM	1.68	-0.82	0.3	MCAM melanoma cell adhesion molecule [Source:HGNC Symbol;Ac
15	ACOT12	1.68	-0.17	0.52	ACOT12 acyl-CoA thioesterase 12 [Source:HGNC Symbol;Acc:HGNC
16	GZF1	1.66	-0.57	0.42	GZF1 GDNF-inducible zinc finger protein 1 [Source:HGNC Symbol;
17	PTPN12	1.65	-0.76	0.24	PTPN12 protein tyrosine phosphatase, non-receptor type 12 [Source:l
18	ARHGAP29	1.64	-0.16	0.48	ARHGAP29 Rho GTPase activating protein 29 [Source:HGNC Symbol;Ac
19	CTTNBP2NL	1.64	-0.57	0.44	CTTNBP2NL CTTNBP2 N-terminal like [Source:HGNC Symbol;Acc:HGNC
20	RAPH1	1.64	-0.49	0.46	RAPH1 Ras association (RalGDS/AF-6) and pleckstrin homology dor

Geneset Overrepresentation

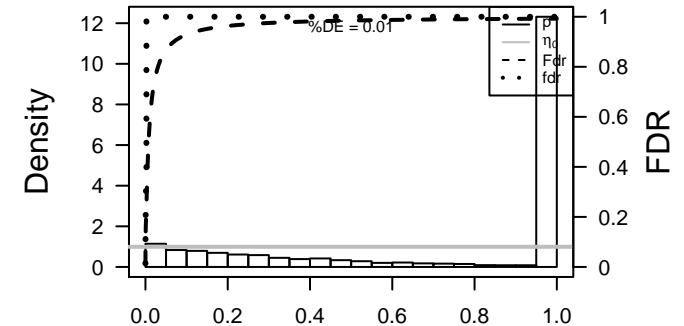
Rank	p-value	#in/all	Geneset
1	2e-06	12 / 286	GSE# PASINI_SUZ12_TARGETS_DN
2	5e-06	19 / 749	GSE# CUI_TCF21_TARGETS_2_DN
3	5e-06	12 / 308	CC focal adhesion
4	9e-06	19 / 784	GSE# BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
5	2e-05	14 / 472	GSE# DUTERTRE ESTRADIOL_RESPONSE_24HR_DN
6	2e-05	13 / 425	GSE# CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN
7	3e-05	9 / 202	CC actin cytoskeleton
8	4e-05	8 / 163	GSE# PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
9	6e-05	7 / 129	GSE# GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLUE_UP
10	7e-05	15 / 609	MF cytoskeletal protein binding
11	8e-05	7 / 134	BP cell junction organization
12	8e-05	5 / 58	GSE# PID_AP1_PATHWAY
13	1e-04	6 / 98	GSE# REACTOME_CELL_CELL_COMMUNICATION
14	1e-04	12 / 426	GSE# ZWANG_CLASS_1_TRANSIENTLY_INDUCED_BY_EGF
15	1e-04	25 / 1465	CC cytoskeleton
16	1e-04	6 / 102	MF actin filament binding
17	2e-04	14 / 594	GSE# WONG_ADULT_TISSUE_STEM_MODULE
18	3e-04	16 / 761	GSE# KOINUMA_TARGETS_OF_SMAD2_OR_SMAD3
19	3e-04	8 / 215	GSE# BILD_HRAS_ONCOGENIC_SIGNATURE
20	3e-04	3 / 17	CC protein-DNA complex
21	3e-04	7 / 166	GSE# RODWELL_AGING_KIDNEY_NO_BLOOD_UP
22	3e-04	9 / 278	GSE# GABRIELY_MIR21_TARGETS
23	3e-04	3 / 18	GSE# BIOCARTE_CALCINEURIN_PATHWAY
24	3e-04	3 / 18	GSE# AMIT_DELAYED_EARLY_GENES
25	4e-04	8 / 227	GSE# DAVICIONI_TARGETS_OF_PAX_FOXP01_FUSIONS_UP
26	4e-04	6 / 125	CC lamellipodium
27	4e-04	87 / 8984	MF protein binding
28	5e-04	5 / 83	GSE# DACOSTA_UV_RESPONSE_VIA_ERCC3_TTD_DN
29	5e-04	3 / 20	GSE# PID_ECADHERIN_KERATINOCYTE_PATHWAY
30	5e-04	4 / 47	GSE# BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_DN
31	5e-04	6 / 129	miRN hsa-miR-1272
32	5e-04	15 / 730	GSE# RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_DN
33	5e-04	6 / 130	GSE# SHETH_LIVER_CANCER_VS_TXNP1_LOSS_PAM2
34	5e-04	5 / 86	MF integrin binding
35	6e-04	3 / 22	BP actin filament bundle assembly
36	7e-04	7 / 189	GSE# MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_DN
37	7e-04	6 / 138	CC cell-cell junction
38	8e-04	4 / 54	GSE# BOYLAN_MULTIPLE_MYELOMA_C_DN
39	8e-04	3 / 24	GSE# REACTOME_SMAD2_SMAD3_SMAD4_HETEROTRIMER_REGULATES_S
40	8e-04	3 / 24	GSE# REACTOME_ADHERENS_JUNCTIONS_INTERACTIONS

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: b

metagenes = 8
genes = 44

<r> metagenes = 0.98
<r> genes = 0.19
beta: r2= 2.07 / log p= -Inf

samples with spot = 8 (8.7 %)
MSC3 : 8 (32 %)

Spot Genelist

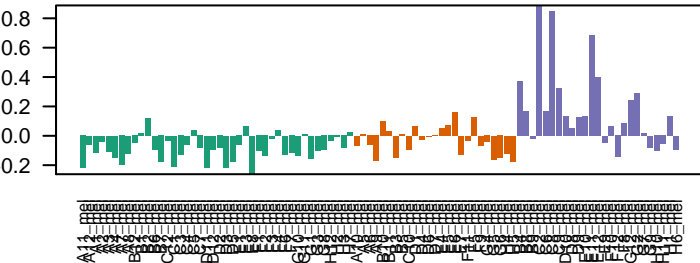
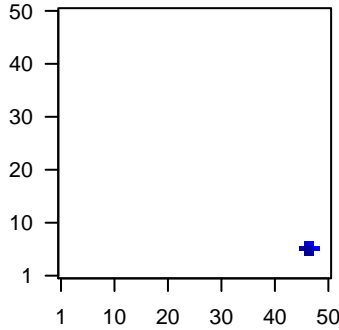
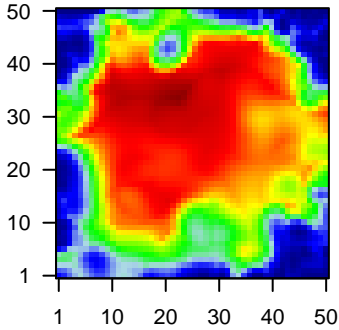
Rank	ID	max e	r	min e	Description
					Symbol
1	CYTH3	1.9	-0.46	0.64	CYTH3 cytohesin 3 [Source:HGNC Symbol;Acc:HGNC:9504]
2	RIC8A	1.83	-0.33	0.32	RIC8A RIC8 guanine nucleotide exchange factor A [Source:HGNC S
3	LEAP2	1.81	-0.18	0.35	LEAP2 liver expressed antimicrobial peptide 2 [Source:HGNC Symbc
4	ZNF383	1.77	-0.16	0.55	ZNF383 zinc finger protein 383 [Source:HGNC Symbol;Acc:HGNC:18
5	PLCD3	1.75	-0.26	0.49	PLCD3 phospholipase C, delta 3 [Source:HGNC Symbol;Acc:HGNC:
6	FAM65B	1.73	-0.09	0.75	FAM65B family with sequence similarity 65, member B [Source:HGNC
7	EXOC6B	1.66	-0.54	0.38	EXOC6Bexocyst complex component 6B [Source:HGNC Symbol;Acc:l
8	LIN7A	1.57	-0.45	0.43	LIN7A lin-7 homolog A (C. elegans) [Source:HGNC Symbol;Acc:HG
9	PIAS3	1.51	-0.37	0.3	PIAS3 protein inhibitor of activated STAT, 3 [Source:HGNC Symbol;#
10	KLF13	1.49	-0.43	0.46	KLF13 Kruppel-like factor 13 [Source:HGNC Symbol;Acc:HGNC:13k
11	HSPB7	1.46	-0.16	0.62	HSPB7 heat shock 27kDa protein family, member 7 (cardiovascular) [
12	HEG1	1.41	-0.34	0.44	HEG1 heart development protein with EGF-like domains 1 [Source:l
13	FAT4	1.4	-0.06	0.76	FAT4 FAT atypical cadherin 4 [Source:HGNC Symbol;Acc:HGNC:2:
14	BDNF	1.4	-0.09	0.74	BDNF brain-derived neurotrophic factor [Source:HGNC Symbol;Acc
15	ATXN1	1.35	-0.33	0.46	ATXN1 ataxin 1 [Source:HGNC Symbol;Acc:HGNC:10548]
16	CDC42BPB	1.34	-0.37	0.44	CDC42BPB CDC42 binding protein kinase beta (DMPK-like) [Source:HGI
17	BAZ2A	1.3	-0.95	0.24	BAZ2A bromodomain adjacent to zinc finger domain, 2A [Source:HG
18	RAD50	1.29	-1.07	0.31	RAD50 RAD50 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:l
19	MYH9	1.29	-1.04	0.45	MYH9 myosin, heavy chain 9, non-muscle [Source:HGNC Symbol;#
20	PBX1	1.27	-0.16	0.54	PBX1 pre-B-cell leukemia homeobox 1 [Source:HGNC Symbol;Acc

Geneset Overrepresentation

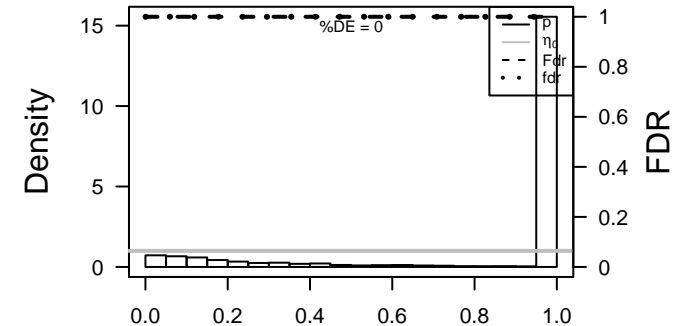
Rank	p-value	#in/all	Geneset
1	1e-04	3 / 32	Lifest: DUMEAUX_Fasting enriched genes
2	1e-04	3 / 35	GSE# CHUNG_BLISTER_CYTOTOXICITY_DN
3	2e-04	4 / 102	miRN hsa-miR-410
4	3e-04	4 / 111	Aging HORVATH_aging_genes meth UP
5	5e-04	3 / 51	GSE# CORRE_MULTIPLE_MYELOMA_UP
6	5e-04	26 / 4992	MF ion binding
7	6e-04	2 / 12	CC actomyosin
8	8e-04	2 / 14	GSE# REACTOME_REGULATION_OF_AMPK_ACTIVITY_VIA_LKB1
9	1e-03	2 / 17	BP actomyosin structure organization
10	1e-03	2 / 17	GSE# REACTOME_ENERGY_DEPENDENT_REGULATION_OF_MTOR_BY_LK
11	1e-03	4 / 156	MF protein C-terminus binding
12	1e-03	2 / 19	GSE# MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_DN
13	2e-03	2 / 20	BP response to light stimulus
14	2e-03	2 / 21	BP glutamate secretion
15	2e-03	37 / 9330	Brain Overlap_fetal_midbrain_ReprPC
16	2e-03	2 / 22	BP vasculature development
17	2e-03	3 / 88	miRN hsa-miR-149
18	2e-03	2 / 25	miRN hsa-miR-99b
19	3e-03	2 / 26	GSE# REACTOME_PKB_MEDIATED_EVENTS
20	3e-03	3 / 95	GSE# KOBAYASHI_EGFR_SIGNALING_24HR_UP
21	3e-03	4 / 200	GSE# KYNG_WERNER_SYNDROM_AND_NORMAL_AGING_DN
22	3e-03	4 / 200	GSE# ZWANG_CLASS_3_TRANSIENTLY_INDUCED_BY_EGF
23	3e-03	9 / 1050	Brain Fetal_EnhP
24	3e-03	2 / 29	BP regulation of excitatory postsynaptic membrane potential
25	4e-03	7 / 682	GSE# KRIEG_HYPOXIA_NOT_VIA_KDM3A
26	4e-03	2 / 31	BP inner ear development
27	4e-03	2 / 31	BP visual learning
28	4e-03	2 / 33	CC cell leading edge
29	4e-03	2 / 33	CC Golgi stack
30	4e-03	2 / 33	GSE# COWLING_MYCN_TARGETS
31	4e-03	3 / 111	GSE# ZHU_CMV_ALL_DN
32	5e-03	2 / 35	BP branching involved in ureteric bud morphogenesis
33	5e-03	2 / 37	BP termination of G-protein coupled receptor signaling pathway
34	6e-03	3 / 122	BP plasma membrane organization
35	6e-03	2 / 38	BP actin cytoskeleton reorganization
36	6e-03	2 / 39	GSE# ZHAN_MULTIPLE_MYELOMA_MS_UP
37	6e-03	3 / 128	GSE# RASHI_RESPONSE_TO_IONIZING_RADIATION_5
38	7e-03	2 / 41	CC cleavage furrow
39	7e-03	10 / 1394	GSE# ZWANG_TRANSIENTLY_UP_BY_1ST_EGF_PULSE_ONLY
40	7e-03	2 / 43	BP neurotransmitter secretion

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: c

metagenes = 22
genes = 348

<r> metagenes = 0.97

<r> genes = 0.17

beta: r2= 4.29 / log p= -Inf

samples with spot = 15 (16.3 %)

MSC1 : 3 (7.1 %)

MSC3 : 12 (48 %)

Spot Genelist

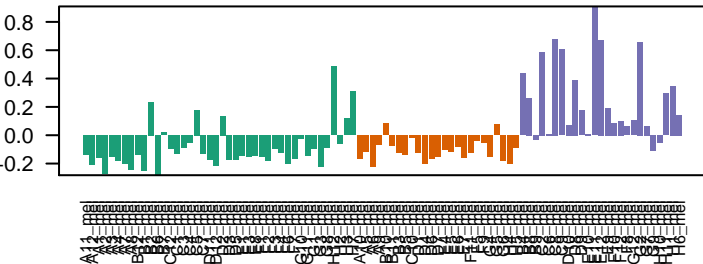
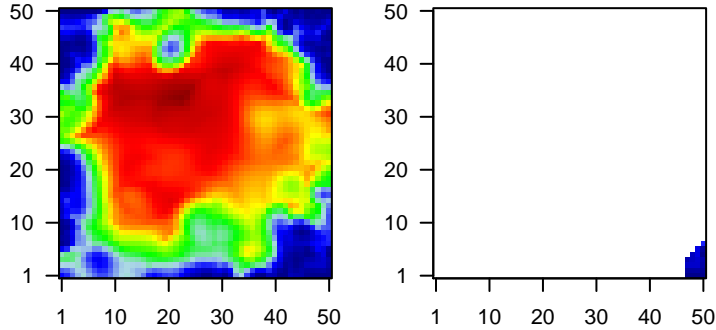
Rank	ID	max e	r	min e	Description
					Symbol
1	DKK1	2.85	-0.31	0.63	DKK1 dickkopf WNT signaling pathway inhibitor 1 [Source:HGNC S
2	IL24	2.78	-0.11	0.59	IL24 interleukin 24 [Source:HGNC Symbol;Acc:HGNC:11346]
3	HBEGF	2.46	-0.25	0.53	HBEGF heparin-binding EGF-like growth factor [Source:HGNC Synt
4	ANXA1	2.44	-0.5	0.78	ANXA1 annexin A1 [Source:HGNC Symbol;Acc:HGNC:533]
5	FADS3	2.35	-0.24	0.56	FADS3 fatty acid desaturase 3 [Source:HGNC Symbol;Acc:HGNC:35
6	PTPRZ1	2.31	-0.37	0.7	PTPRZ1 protein tyrosine phosphatase, receptor-type, Z polypeptide 1
7	NAV3	2.3	-0.23	0.73	NAV3 neuron navigator 3 [Source:HGNC Symbol;Acc:HGNC:15998
8	RGS4	2.3	-0.3	0.4	RGS4 regulator of G-protein signaling 4 [Source:HGNC Symbol;Acc
9	A2M	2.29	-0.9	0.52	A2M alpha-2-macroglobulin [Source:HGNC Symbol;Acc:HGNC:7
10	RGS2	2.26	-0.52	0.33	RGS2 regulator of G-protein signaling 2 [Source:HGNC Symbol;Acc
11	KCNJ2	2.26	-0.25	0.68	KCNJ2 potassium channel, inwardly rectifying subfamily J, member 2
12	HIST1H3D	2.25	-0.35	0.37	HIST1H3D histone cluster 1, H3d [Source:HGNC Symbol;Acc:HGNC:47f
13	FN1	2.23	-1.04	0.4	FN1 fibronectin 1 [Source:HGNC Symbol;Acc:HGNC:3778]
14	SERPINI1	2.21	-0.56	0.39	SERPINI1 serpin peptidase inhibitor, clade I (neuroserpin), member 1 [S
15	LMCD1	2.2	-0.68	0.32	LMCD1 LIM and cysteine-rich domains 1 [Source:HGNC Symbol;Acc
16	VTN	2.14	-0.36	0.67	VTN vitronectin [Source:HGNC Symbol;Acc:HGNC:12724]
17	SLC40A1	2.11	-0.56	0.38	SLC40A1 solute carrier family 40 (iron-regulated transporter), member
18	ARRDC3	2.09	-0.76	0.5	ARRDC3 arrestin domain containing 3 [Source:HGNC Symbol;Acc:HGI
19	CAV1	2.08	-0.76	0.44	CAV1 caveolin 1, caveolae protein, 22kDa [Source:HGNC Symbol;#
20	MAP2	2.07	-0.14	0.6	MAP2 microtubule-associated protein 2 [Source:HGNC Symbol;Acc

Geneset Overrepresentation

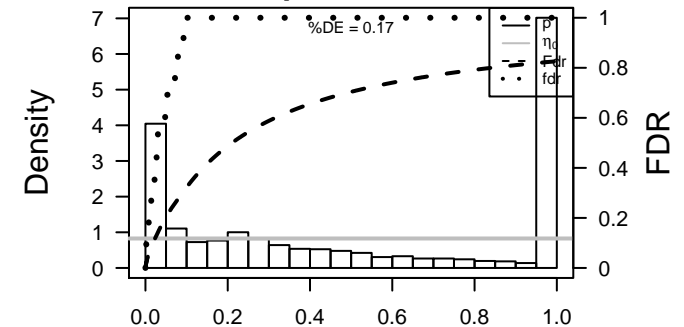
Rank	p-value	#in/all	Geneset
1	1e-27	60 / 472	GSE/ DUTERTRE_ESTRADIOL_RESPONSE_24HR_DN
2	1e-26	47 / 286	GSE/ PASINL_SUZ12_TARGETS_DN
3	5e-23	61 / 594	GSE/ WONG_ADULT_TISSUE_STEM_MODULE
4	5e-23	38 / 212	Lympi LENZ_Stromal signature 1
5	1e-22	44 / 302	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_DN
6	3e-21	66 / 749	GSE/ CUL_TCF21_TARGETS_2_DN
7	1e-20	73 / 930	GSE/ NUYTEN_EZH2_TARGETS_UP
8	2e-20	32 / 168	HM HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
9	2e-18	44 / 385	GSE/ REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
10	2e-18	46 / 425	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN
11	8e-18	44 / 401	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN
12	3e-15	41 / 410	GSE/ LIM_MAMMARY_STEM_CELL_UP
13	4e-15	45 / 494	GSE/ CHICAS_RB1_TARGETS_CONFLUENT
14	1e-14	59 / 833	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
15	2e-14	31 / 245	GSE/ WANG_SMARCE1_TARGETS_UP
16	2e-14	33 / 283	GSE/ SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
17	3e-14	30 / 234	GSE/ LU_AGING_BRAIN_UP
18	5e-14	55 / 761	GSE/ KOINUMA_TARGETS_OF_SMAD2_OR_SMAD3
19	6e-14	39 / 406	GSE/ BAELDE_DIABETIC_NEPHROPATHY_DN
20	2e-13	19 / 91	GSE/ BROWNE_HCMV_INFECTION_20HR_DN
21	3e-13	1 / 14	Color LIU_PROSTATE_CANCER_DN
22	3e-13	22 / 131	Color Marisa_CRC-cluster-a
23	9e-13	22 / 137	HM HALLMARK_UV_RESPONSE_DN
24	3e-12	20 / 117	Color Marisa_CRC-cluster-b
25	4e-12	27 / 227	GSE/ ONDER_CDH1_TARGETS_2_UP
26	4e-12	25 / 195	GSE/ SENESE_HDAC1_AND_HDAC2_TARGETS_DN
27	5e-12	23 / 164	GSE/ TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_UP
28	8e-12	39 / 475	GSE/ ONKEN_UVEAL_MELANOMA_DN
29	1e-11	45 / 616	GSE/ NABA_MATRISOME
30	2e-11	60 / 1013	Brain Fetal_TssP
31	2e-11	30 / 303	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_2B
32	8e-11	34 / 400	GSE/ HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_UP
33	8e-11	25 / 222	GSE/ UDAYAKUMAR_MED1_TARGETS_DN
34	1e-10	43 / 618	GSE/ GOZGIT_ESR1_TARGETS_DN
35	2e-10	21 / 163	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
36	2e-10	31 / 352	CC cell surface
37	2e-10	24 / 215	GSE/ BILD_HRAS_ONCOGENIC_SIGNATURE
38	2e-10	27 / 272	GSE/ LEI_MYB_TARGETS
39	3e-10	22 / 181	HM HALLMARK_P53_PATHWAY
40	3e-10	17 / 104	GSE/ LAIHO_COLORECTAL_CANCER_SERRATED_UP

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: d

metagenes = 43
genes = 418

<r> metagenes = 0.72
<r> genes = 0.08
beta: r2= 1.71 / log p= -Inf

samples with spot = 15 (16.3 %)

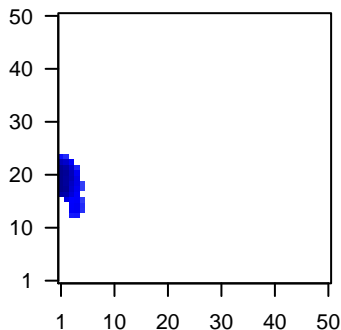
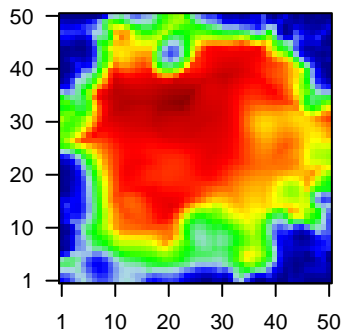
MSC1 : 10 (23.8 %)

MSC2 : 3 (12 %)

MSC3 : 2 (8 %)

Overview Map

Spot

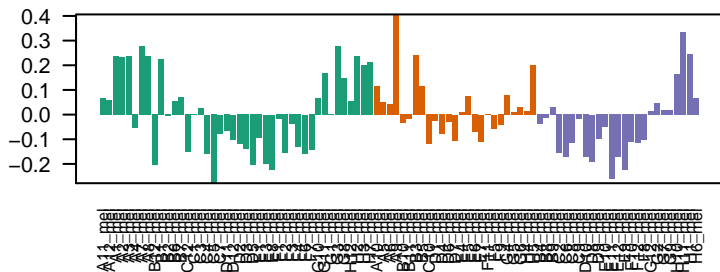


Spot Genelist

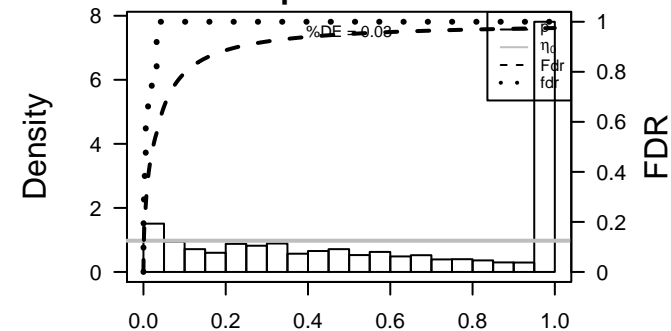
Rank	ID	max e	r	min e	Description
1	FZD3	2.09	-0.27	0.28	FZD3 frizzled class receptor 3 [Source:HGNC Symbol;Acc:HGNC:4
2	SLC25A14	2.08	-0.21	0.26	SLC25A14 absolute carrier family 25 (mitochondrial carrier, brain), member
3	RAB40B	1.91	-0.31	0.29	RAB40B RAB40B, member RAS oncogene family [Source:HGNC Sym
4	TKTL1	1.87	-0.19	0.27	TKTL1 transketolase-like 1 [Source:HGNC Symbol;Acc:HGNC:1183
5	ARRDC1	1.83	-0.36	0.26	ARRDC1 arrestin domain containing 1 [Source:HGNC Symbol;Acc:HGI
6	TAPBPL	1.83	-0.08	0.34	TAPBPL TAP binding protein-like [Source:HGNC Symbol;Acc:HGNC::
7	NSMCE4A	1.83	-0.38	0.29	NSMCE4A non-SMC element 4 homolog A (S. cerevisiae) [Source:HGN
8	FAM131A	1.78	-0.18	0.29	FAM131A family with sequence similarity 131, member A [Source:HGN
9	DBNDD2	1.77	-0.24	0.33	DBNDD2 dysbindin (dystrobrein binding protein 1) domain containi
10	LCMT2	1.75	-0.37	0.3	LCMT2 leucine carboxyl methyltransferase 2 [Source:HGNC Symbol;
11	TTC7B	1.74	-0.65	0.19	TTC7B tetratricopeptide repeat domain 7B [Source:HGNC Symbol;Ar
12	GSTA1	1.74	-0.45	0.3	GSTA1 glutathione S-transferase alpha 1 [Source:HGNC Symbol;Acc
13	ELAC2	1.72	-0.93	0.27	ELAC2 elac ribonuclease Z 2 [Source:HGNC Symbol;Acc:HGNC:14
14	IFNAR2	1.71	-0.41	0.45	IFNAR2 interferon (alpha, beta and omega) receptor 2 [Source:HGNC
15	STAT6	1.71	-0.38	0.29	STAT6 signal transducer and activator of transcription 6, interleukin-
16	NECAB3	1.7	-0.22	0.25	NECAB3 N-terminal EF-hand calcium binding protein 3 [Source:HGNC
17	LMLN	1.68	-0.37	0.26	LMLN leishmanolysin-like (metallopeptidase M8 family) [Source:HG
18	SCRN2	1.68	-0.18	0.3	SCRN2 secernin 2 [Source:HGNC Symbol;Acc:HGNC:30381]
19	CPS1	1.65	-0.46	0.24	CPS1 carbamoyl-phosphate synthase 1, mitochondrial [Source:HG
20	MIOS	1.64	-0.23	0.29	MIOS missing oocyte, meiosis regulator, homolog (Drosophila) [Sou

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-21	353 / 9482	Colon TssA_Colon
2	4e-15	327 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
3	6e-14	69 / 925	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
4	2e-13	302 / 8205	CC cytoplasm
5	9e-12	318 / 9027	Colon Tx_Colon
6	4e-11	268 / 7203	Colon TssF_Colon
7	1e-10	58 / 831	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
8	2e-10	352 / 10605	CC intracellular
9	3e-09	137 / 3081	Brain Mid_Frontal_Lobe_ZNF
10	9e-09	79 / 1468	CC mitochondrion
11	1e-08	332 / 9988	CC organelle
12	1e-08	320 / 9528	Brain Overlap_fetal_midbrain_Quies
13	7e-08	218 / 5880	Colon TssD2_Colon
14	9e-08	66 / 1201	CC endoplasmic reticulum
15	3e-07	69 / 1326	GSE# DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
16	9e-07	32 / 440	GSE# SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_UP
17	1e-06	19 / 188	GSE# DAZARD_RESPONSE_TO_UV_NHEK_UP
18	1e-06	307 / 9330	Brain Overlap_fetal_midbrain_ReprPC
19	2e-06	117 / 2798	Colon TxEnhG1_Colon
20	5e-06	313 / 9653	Colon Enh_Colon
21	1e-05	30 / 447	GSE# ENK_UV_RESPONSE KERATINOCYTE_UP
22	1e-05	256 / 7592	Lymp HOPP_Active_promoter
23	2e-05	282 / 8580	Colon TxWk_Colon
24	2e-05	186 / 5184	Lymp HOPP_Txn_transition
25	4e-05	30 / 478	GSE# STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
26	4e-05	25 / 363	GSE# RUTELLA_RESPONSE_TO_HGF_UP
27	4e-05	170 / 4689	TF ICGC_Taf1_targets
28	4e-05	362 / 11774	CC cell
29	4e-05	8 / 47	GSE# SCHLOSSER_MYC_TARGETS_AND_SERUM_RESPONSE_UP
30	4e-05	19 / 238	GSE# WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP
31	6e-05	10 / 78	GSE# SCHUHMACHER_MYC_TARGETS_UP
32	8e-05	36 / 649	CC endoplasmic reticulum membrane
33	8e-05	54 / 1132	CC Golgi apparatus
34	1e-04	23 / 340	GSE# RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP
35	1e-04	22 / 321	GSE# ACEVEDO_NORMAL_TISSUE_ADJACENT_TO_LIVER_TUMOR_DN
36	1e-04	26 / 416	GSE# GAZDA_DIAMOND_BLACKFAN_ANEMIA_ERYTHROID_DN
37	2e-04	34 / 619	GSE# KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DENSITY_CORR_UP
38	2e-04	173 / 4909	TF ICGC_Stat5_targets
39	2e-04	22 / 332	Up Glio Up
40	2e-04	147 / 4054	TF ICGC_Egr1_targets



p-values



Underexpression Spots

Spot Summary: e

metagenes = 7
genes = 84

<r> metagenes = 0.95
<r> genes = 0.11
beta: r2= 1.33 / log p= -Inf

samples with spot = 9 (9.8 %)
MSC1 : 1 (2.4 %)
MSC2 : 1 (4 %)
MSC3 : 7 (28 %)

Spot Genelist

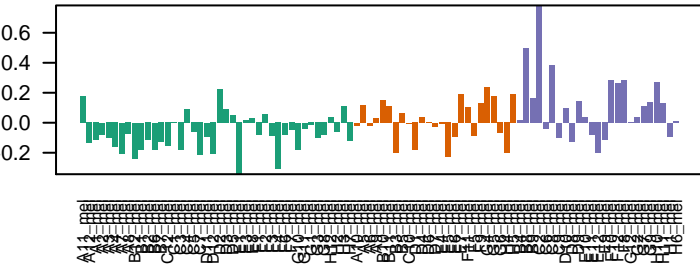
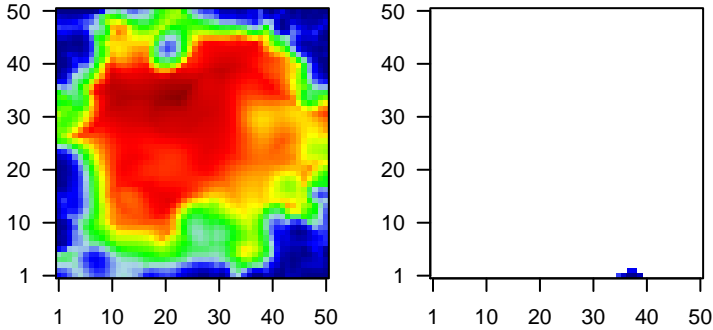
Rank	ID	max e	r	min e	Description
1	MYO5B	2.19	-0.18	0.41	MYO5B myosin VB [Source:HGNC Symbol;Acc:HGNC:7603]
2	KLHDC8B	2.08	-0.34	0.35	KLHDC8B kelch domain containing 8B [Source:HGNC Symbol;Acc:HGNC:19338]
3	CDK8	1.64	-0.46	0.32	CDK8 cyclin-dependent kinase 8 [Source:HGNC Symbol;Acc:HGNC:19338]
4	CHKB	1.6	-0.43	0.31	CHKB choline kinase beta [Source:HGNC Symbol;Acc:HGNC:19338]
5	CTSH	1.59	-0.45	0.26	CTSH cathepsin H [Source:HGNC Symbol;Acc:HGNC:2535]
6	ALDH1A2	1.58	-0.25	0.32	ALDH1A2 aldehyde dehydrogenase 1 family, member A2 [Source:HGNC Symbol;Acc:HGNC:19338]
7	ANKRD6	1.57	-0.2	0.36	ANKRD6 ankyrin repeat domain 6 [Source:HGNC Symbol;Acc:HGNC:19338]
8	CETN3	1.57	-0.48	0.31	CETN3 centrin, EF-hand protein, 3 [Source:HGNC Symbol;Acc:HGNC:19338]
9	ABCB1	1.55	-0.2	0.46	ABCB1 ATP-binding cassette, sub-family B (MDR/TAP), member 1 [Source:HGNC Symbol;Acc:HGNC:19338]
10	YIPF2	1.54	-0.56	0.33	YIPF2 Yip1 domain family, member 2 [Source:HGNC Symbol;Acc:HGNC:19338]
11	CCBL1	1.52	-0.33	0.43	CCBL1 cysteine conjugate-beta lyase, cytoplasmic [Source:HGNC Symbol;Acc:HGNC:19338]
12	ANO10	1.48	-0.73	0.34	ANO10 anoctamin 10 [Source:HGNC Symbol;Acc:HGNC:25519]
13	NAA35	1.48	-0.36	0.34	NAA35 N(alpha)-acetyltransferase 35, NatC auxiliary subunit [Source:HGNC Symbol;Acc:HGNC:19338]
14	AVIL	1.47	-0.18	0.41	AVIL advillin [Source:HGNC Symbol;Acc:HGNC:14188]
15	ZSCAN29	1.46	-0.19	0.41	ZSCAN29 zinc finger and SCAN domain containing 29 [Source:HGNC Symbol;Acc:HGNC:19338]
16	ACSS2	1.44	-0.76	0.28	ACSS2 acyl-CoA synthetase short-chain family member 2 [Source:HGNC Symbol;Acc:HGNC:19338]
17	AHR	1.44	-0.34	0.37	AHR aryl hydrocarbon receptor [Source:HGNC Symbol;Acc:HGNC:19338]
18	VPS13A	1.42	-0.97	0.25	VPS13A vacuolar protein sorting 13 homolog A (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:19338]
19	ALDH3B1	1.41	-0.56	0.44	ALDH3B1 aldehyde dehydrogenase 3 family, member B1 [Source:HGNC Symbol;Acc:HGNC:19338]
20	MINPP1	1.41	-0.57	0.33	MINPP1 multiple inositol-polyphosphate phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:19338]

Geneset Overrepresentation

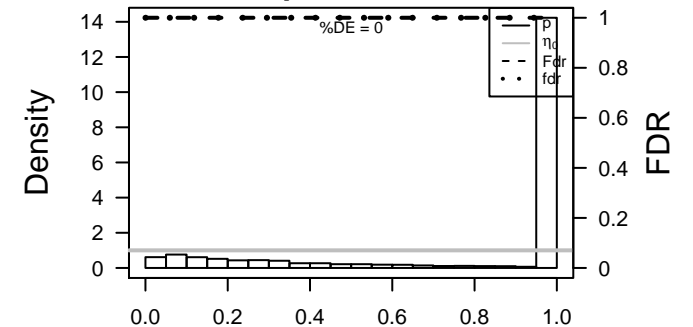
Rank	p-value	#in/all	Geneset
1	1e-06	61 / 6929	LympI HOPP_Txn_elongation
2	6e-06	68 / 8580	Colon TxWk_Colon
3	6e-06	63 / 7592	LympI HOPP_Active_promoter
4	2e-05	69 / 9027	Colon Tx_Colon
5	3e-05	9 / 281	Colon Pentrack_CRC_TCGA_group.over_B_msi-h_UP
6	4e-05	52 / 5940	Brain Overlap_fetal_midbrain_HetRpts
7	4e-05	59 / 7209	LympI HOPP_Weak_promoter
8	6e-05	68 / 9020	Brain Overlap_fetal_midbrain_ReprPCWk
9	6e-05	65 / 8415	Colon Quies3_Colon
10	6e-05	15 / 833	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
11	7e-05	4 / 40	GSE/ BOYVAULT_LIVER_CANCER_SUBCLASS_G1_DN
12	2e-04	74 / 10605	CC intracellular
13	3e-04	68 / 9330	Brain Overlap_fetal_midbrain_ReprPC
14	4e-04	6 / 173	Color Pentrack_CRC_TCGA_corr_U_msi-h_UP
15	5e-04	3 / 28	GSE/ REACTOME_BIOSYNTHESIS_OF_THE_N_GLYCAN_PRECURSOR_DN
16	5e-04	5 / 118	GSE/ DAZARD_RESPONSE_TO_UV_SCC_DN
17	6e-04	3 / 29	GSE/ ZWANG_EGF_PERSISTENTLY_UP
18	6e-04	5 / 121	GSE/ ONDER_CDH1_TARGETS_1_UP
19	7e-04	3 / 31	miRN hsa-miR-892b
20	7e-04	7 / 263	Color Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
21	7e-04	7 / 263	GSE/ IVANOVA_HEMATOPOIESIS_MATURE_CELL
22	7e-04	44 / 5184	Lymp HOPP_Txn_transition
23	8e-04	46 / 5538	Lymp HOPP_Weak_txn
24	9e-04	6 / 199	GSE/ RAMALHO_STEMNESS_UP
25	1e-03	9 / 457	GSE/ SENESE_HDAC3_TARGETS_UP
26	1e-03	67 / 9482	Color TssA_Colon
27	1e-03	3 / 38	GSE/ PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_1
28	1e-03	7 / 294	GSE/ DEBIASI_APOPTOSIS_BY_REOVIRUS_INFECTION_UP
29	1e-03	9 / 473	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
30	2e-03	5 / 148	GSE/ BLALOCK_ALZHEIMERS_DISEASE_INCIPIENT_DN
31	2e-03	8 / 386	BP regulation of transcription from RNA polymerase II promoter
32	2e-03	2 / 11	BP negative regulation of intracellular estrogen receptor signaling pathway
33	2e-03	2 / 11	Glio Mukasa_UP_in_Astrogloma
34	2e-03	3 / 42	MF RNA polymerase II core promoter sequence-specific DNA binding
35	2e-03	3 / 43	GSE/ KEGG_N_GLYCAN_BIOSYNTHESIS
36	2e-03	77 / 11774	CC cell
37	2e-03	4 / 95	GSE/ KOBAYASHI_EGFR_SIGNALING_24HR_UP
38	2e-03	9 / 503	GSE/ MARTINEZ_RB1_AND_TP53_TARGETS_UP
39	2e-03	9 / 508	GSE/ MARTINEZ_TP53_TARGETS_UP
40	2e-03	9 / 510	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: f

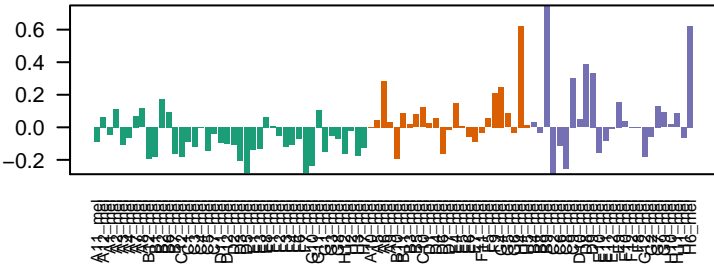
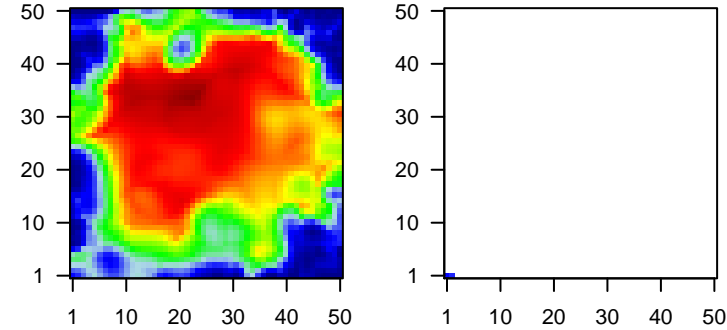
metagenes = 2
genes = 79

<r> metagenes = 1
<r> genes = 0.13
beta: r2= 1.37 / log p= -Inf

samples with spot = 9 (9.8 %)
MSC2 : 4 (16 %)
MSC3 : 5 (20 %)

Overview Map

Spot

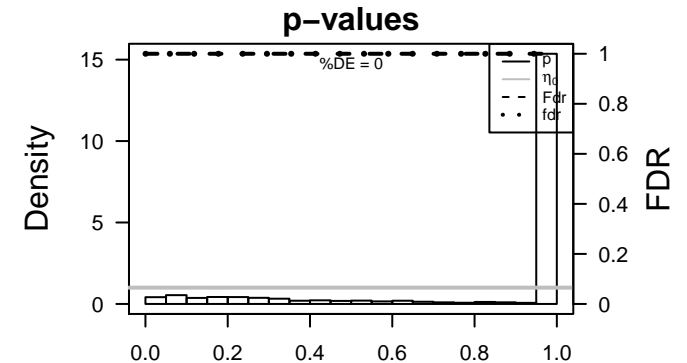


Spot Genelist

Rank	ID	max e	r	min e	Description
1	GPR107	2.16	-0.36	0.34	GPR107 G protein-coupled receptor 107 [Source:HGNC Symbol;Acc:G
2	APBB1	1.74	-0.25	0.51	APBB1 amyloid beta (A4) precursor protein-binding, family B, membe
3	ZNF513	1.6	-0.11	0.36	ZNF513 zinc finger protein 513 [Source:HGNC Symbol;Acc:HGNC:26
4	CRELD1	1.58	-0.42	0.36	CRELD1 cysteine-rich with EGF-like domains 1 [Source:HGNC Symb
5	CCDC126	1.52	-0.57	0.3	CCDC126coiled-coil domain containing 126 [Source:HGNC Symbol;Ac
6	ARHGAP18	1.51	-0.22	0.45	ARHGAP18 Rho GTPase activating protein 18 [Source:HGNC Symbol;Ac
7	ANKRD29	1.51	-0.23	0.43	ANKRD29ankyrin repeat domain 29 [Source:HGNC Symbol;Acc:HGNC
8	PTPN13	1.5	-0.41	0.27	PTPN13 protein tyrosine phosphatase, non-receptor type 13 (APO-1/
9	NLN	1.5	-0.62	0.28	NLN neurolysin (metallopeptidase M3 family) [Source:HGNC Synt
10	SMG9	1.5	-0.41	0.21	SMG9 SMG9 nonsense mediated mRNA decay factor [Source:HGNC
11	GABPB2	1.5	-0.54	0.37	GABPB2GA binding protein transcription factor, beta subunit 2 [Source
12	AKAP1	1.47	-0.5	0.44	AKAP1 A kinase (PRKA) anchor protein 1 [Source:HGNC Symbol;Ac
13	HOOK3	1.46	-0.47	0.37	HOOK3 hook microtubule-tethering protein 3 [Source:HGNC Symbol;
14	NAALAD2	1.44	-0.15	0.35	NAALAD2N-acetylated alpha-linked acidic dipeptidase 2 [Source:HGNC
15	POFUT1	1.43	-0.5	0.28	POFUT1 protein O-fucosyltransferase 1 [Source:HGNC Symbol;Acc:H
16	CCDC94	1.43	-0.33	0.33	CCDC94coiled-coil domain containing 94 [Source:HGNC Symbol;Acc
17	BTBD2	1.42	-0.22	0.42	BTBD2 BTB (POZ) domain containing 2 [Source:HGNC Symbol;Acc:G
18	AIF1L	1.4	-0.2	0.53	AIF1L allograft inflammatory factor 1-like [Source:HGNC Symbol;Ac
19	TBL2	1.4	-0.5	0.41	TBL2 transducin (beta)-like 2 [Source:HGNC Symbol;Acc:HGNC:1
20	AASDHPPT	1.4	-0.89	0.32	AASDHPPTpinoadipate-semialdehyde dehydrogenase-phosphopantet

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-05	50 / 5940	Brain Overlap_fetal_midbrain_HetRpts
2	1e-05	63 / 8580	Colon TxWk_Colon
3	2e-05	55 / 6929	Lymph HOPP_Txn_elongation
4	3e-05	20 / 1418	TF ICGC_Ets1_targets
5	4e-05	64 / 9027	Colon Tx_Colon
6	6e-05	65 / 9330	Brain Overlap_fetal_midbrain_ReprPC
7	1e-04	65 / 9482	Colon TssA_Colon
8	2e-04	65 / 9528	Brain Overlap_fetal_midbrain_Quies
9	2e-04	5 / 101	BP RNA processing
10	2e-04	43 / 5184	Lymph HOPP_Txn_transition
11	7e-04	6 / 203	miRN hsa-miR-33a
12	8e-04	6 / 210	MF transferase activity, transferring glycosyl groups
13	9e-04	3 / 36	BP nuclear-transcribed mRNA catabolic process, nonsense-mediated decay
14	9e-04	54 / 7592	Lymph HOPP_Active_promoter
15	1e-03	11 / 696	Chr Chr 5
16	1e-03	13 / 925	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
17	1e-03	21 / 1975	BP cellular protein modification process
18	1e-03	12 / 831	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
19	1e-03	7 / 315	Glio WILLSCHER_GBM_Verhaak-PNwt & CL_up
20	1e-03	5 / 158	GSE/ BENPORATH_NOS_TARGETS
21	1e-03	2 / 11	GSE/ HOLLEMAN_DAUORUBICIN_B_ALL_DN
22	2e-03	8 / 416	GSE/ SHEN_SMARCA2_TARGETS_UP
23	2e-03	48 / 6564	Lymph HOPP_Strong_enhancer
24	2e-03	3 / 46	miRN hsa-miR-874
25	2e-03	5 / 168	GSE/ MOREAUX_MULTIPLE_MYELOMA_BY_TACI_DN
26	2e-03	15 / 1251	GSE/ DODD_NASOPHARYNGEAL_CARCIOMA_DN
27	2e-03	16 / 1383	TF ICGC_Six5_targets
28	2e-03	51 / 7209	Lymph HOPP_Weak_promoter
29	2e-03	57 / 8415	Color Quies3_Colon
30	2e-03	4 / 102	miRN hsa-miR-224
31	2e-03	13 / 1007	MF poly(A) RNA binding
32	2e-03	15 / 1266	TF ICGC_NrsfPcr1_targets
33	2e-03	6 / 258	GSE/ BENPORATH_OCT4_TARGETS
34	2e-03	3 / 51	GSE/ BREDEMEYER_RAG_SIGNALING_NOT_VIA_ATM_UP
35	3e-03	5 / 183	miRN hsa-miR-1283
36	3e-03	4 / 113	miRN hsa-miR-507
37	3e-03	3 / 56	BP protein O-linked glycosylation
38	3e-03	3 / 56	BP stem cell maintenance
39	4e-03	5 / 197	miRN hsa-miR-222
40	4e-03	59 / 9013	Brain Overlap_fetal_midbrain_K9K27me3



Underexpression Spots

Spot Summary: g

metagenes = 25
genes = 196

<r> metagenes = 0.81
<r> genes = 0.11
beta: r2= 1.71 / log p= -Inf

samples with spot = 7 (7.6 %)
MSC3 : 7 (28 %)

Spot Genelist

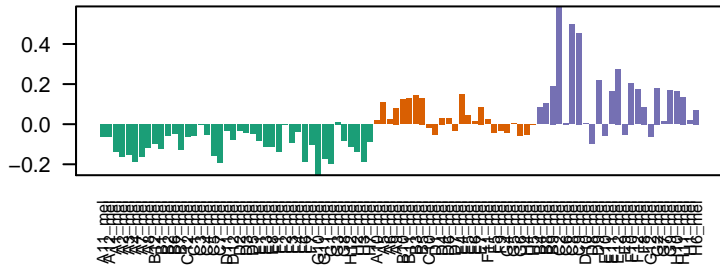
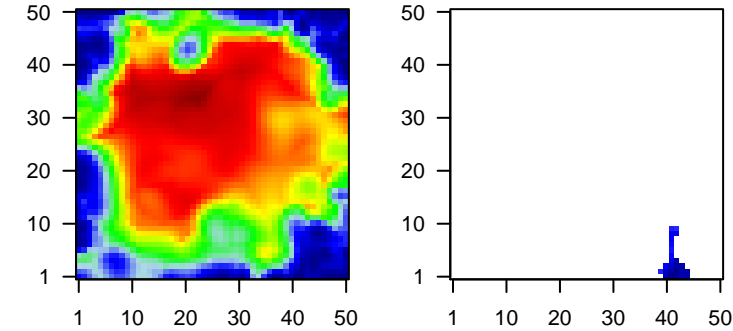
Rank	ID	max e	r	min e	Description
1	PLA2G4C	2.46	-0.18	0.51	PLA2G4C phospholipase A2, group IVC (cytosolic, calcium-independent
2	FOLR3	2.37	-0.05	0.84	FOLR3 folate receptor 3 (gamma) [Source:HGNC Symbol;Acc:HGNC
3	HIST1H4H	2.16	-0.25	0.44	HIST1H4H histone cluster 1, H4h [Source:HGNC Symbol;Acc:HGNC:47
4	ABCB9	1.97	-0.21	0.43	ABCB9 ATP-binding cassette, sub-family B (MDR/TAP), member 9 [
5	RFTN1	1.87	-0.37	0.29	RFTN1 raftlin, lipid raft linker 1 [Source:HGNC Symbol;Acc:HGNC:30
6	ABCA4	1.81	-0.14	0.63	ABCA4 ATP-binding cassette, sub-family A (ABC1), member 4 [Sou
7	ALKBH3	1.81	-0.44	0.29	ALKBH3 alkB, alkylation repair homolog 3 (E. coli) [Source:HGNC Syr
8	ZNF280D	1.8	-0.69	0.33	ZNF280D zinc finger protein 280D [Source:HGNC Symbol;Acc:HGNC:2
9	RNF41	1.76	-0.51	0.38	RNF41 ring finger protein 41, E3 ubiquitin protein ligase [Source:HG
10	CCS	1.76	-0.44	0.31	CCS copper chaperone for superoxide dismutase [Source:HGNC S
11	AFAP1	1.75	-0.15	0.56	AFAP1 actin filament associated protein 1 [Source:HGNC Symbol;Ac
12	HIVEP1	1.7	-0.3	0.36	HIVEP1 human immunodeficiency virus type I enhancer binding prote
13	ZBTB20	1.7	-0.33	0.3	ZBTB20 zinc finger and BTB domain containing 20 [Source:HGNC Syr
14	CTSF	1.68	-0.32	0.28	CTSF cathepsin F [Source:HGNC Symbol;Acc:HGNC:2531]
15	TNIK	1.64	-0.11	0.56	TNIK TRAF2 and NCK interacting kinase [Source:HGNC Symbol;A
16	ABCC10	1.61	-0.35	0.27	ABCC10 ATP-binding cassette, sub-family C (CFTR/MRP), member 1
17	JDP2	1.6	-0.17	0.48	JDP2 Jun dimerization protein 2 [Source:HGNC Symbol;Acc:HGNC
18	ACAD8	1.6	-0.29	0.33	ACAD8 acyl-CoA dehydrogenase family, member 8 [Source:HGNC S
19	HDAC5	1.59	-0.46	0.42	HDAC5 histone deacetylase 5 [Source:HGNC Symbol;Acc:HGNC:14
20	CUL2	1.59	-0.6	0.31	CUL2 cullin 2 [Source:HGNC Symbol;Acc:HGNC:2552]

Geneset Overrepresentation

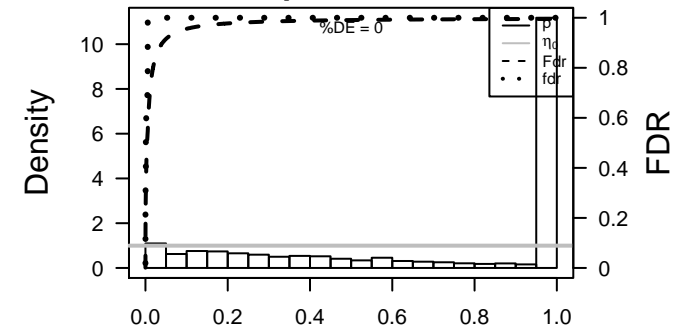
Rank	p-value	#in/all	Geneset
1	1e-07	30 / 784	GSE/ BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
2	2e-06	149 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
3	2e-05	15 / 315	miRN hsa-miR-302c
4	3e-05	15 / 329	miRN hsa-miR-302d
5	3e-05	106 / 5940	Brain Overlap_fetal_midbrain_HetRpts
6	9e-05	23 / 730	GSE/ RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_DN
7	2e-04	149 / 9528	Brain Overlap_fetal_midbrain_Quies
8	2e-04	13 / 307	miRN hsa-miR-302b
9	2e-04	12 / 268	miRN hsa-miR-363
10	2e-04	8 / 124	GSE/ MCBRYAN_PUBERTAL_BREAST_5_6WK_DN
11	2e-04	24 / 833	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
12	3e-04	5 / 45	TF Ti VAQUERIZAS_Uterus
13	3e-04	13 / 318	miRN hsa-miR-302a
14	3e-04	19 / 594	GSE/ WONG_ADULT_TISSUE_STEM_MODULE
15	4e-04	13 / 327	miRN hsa-miR-367
16	4e-04	3 / 12	GSE/ GERHOLD_RESPONSE_TO_TZD_DN
17	5e-04	22 / 765	Brain Mid_Frontal_Lobe_Het
18	5e-04	4 / 29	miRN hsa-miR-486-5p
19	6e-04	6 / 78	CC ubiquitin ligase complex
20	7e-04	14 / 392	GSE/ HAN_SATB1_TARGETS_DN
21	7e-04	3 / 14	BP neural tube formation
22	7e-04	3 / 14	GSE/ MUELLER_COMMON_TARGETS_OF_AML_FUSIONS_UP
23	8e-04	140 / 9027	Color Tx_Colon
24	8e-04	5 / 56	GSE/ MARSON_FOXP3_TARGETS_UP
25	9e-04	4 / 33	BP negative regulation of osteoblast differentiation
26	9e-04	12 / 314	miRN hsa-miR-520c-3p
27	9e-04	11 / 271	GSE/ ZHANG_TLX_TARGETS_60HR_UP
28	9e-04	8 / 153	miRN hsa-miR-583
29	1e-03	9 / 196	GSE/ CHANG_CORE_SERUM_RESPONSE_DN
30	1e-03	143 / 9330	Brain Overlap_fetal_midbrain_ReprPC
31	1e-03	4 / 37	miRN hsa-miR-197
32	1e-03	8 / 163	miRN hsa-miR-495
33	2e-03	14 / 426	miRN hsa-miR-519d
34	2e-03	7 / 130	GSE/ KEGG_UBIQUITIN_MEDIATED_PROTEOLYSIS
35	2e-03	8 / 168	GSE/ RIZKI_TUMOR_INVASIVENESS_3D_UP
36	2e-03	9 / 208	GSE/ ZHANG_TLX_TARGETS_36HR_UP
37	2e-03	10 / 250	miRN hsa-miR-524-5p
38	2e-03	11 / 294	miRN hsa-miR-561
39	2e-03	12 / 340	miRN hsa-miR-142-5p
40	2e-03	3 / 19	GSE/ TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_M

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: h

metagenes = 11
genes = 67

<r> metagenes = 0.95

<r> genes = 0.1

beta: r2= 1.21 / log p= -Inf

samples with spot = 12 (13 %)

MSC1 : 1 (2.4 %)

MSC2 : 5 (20 %)

MSC3 : 6 (24 %)

Spot Genelist

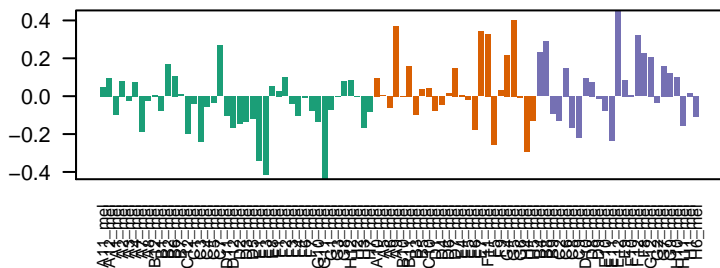
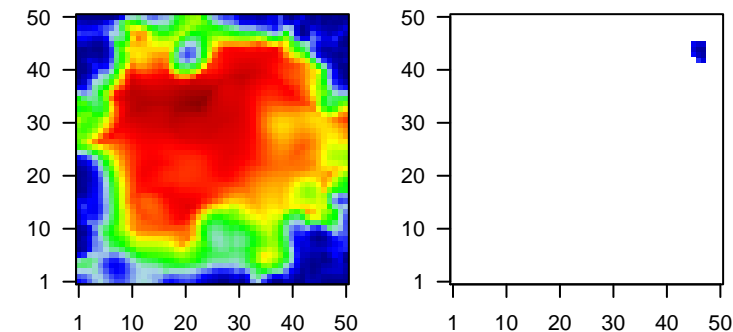
Rank	ID	max e	r	min e	Description
1	NECAB2	1.9	-0.43	0.35	NECAB2N-terminal EF-hand calcium binding protein 2 [Source:HGNC]
2	PACRGL	1.76	-0.36	0.23	PACRGL PARK2 co-regulated-like [Source:HGNC Symbol;Acc:HGNC]
3	ING4	1.73	-0.36	0.37	ING4 inhibitor of growth family, member 4 [Source:HGNC Symbol;A]
4	CNOT10	1.64	-1.42	0.27	CNOT10 CCR4-NOT transcription complex, subunit 10 [Source:HGNC]
5	IL18R1	1.62	-0.08	0.34	IL18R1 interleukin 18 receptor 1 [Source:HGNC Symbol;Acc:HGNC:f]
6	DENND2D	1.53	-0.17	0.22	DENND2DENN/MADD domain containing 2D [Source:HGNC Symbol;]
7	HARS2	1.52	-0.54	0.29	HARS2 histidyl-tRNA synthetase 2, mitochondrial [Source:HGNC Sy]
8	ATP13A2	1.52	-0.41	0.33	ATP13A2ATPase type 13A2 [Source:HGNC Symbol;Acc:HGNC:30213]
9	LRRC39	1.52	-0.38	0.35	LRRC39 leucine rich repeat containing 39 [Source:HGNC Symbol;Acc:
10	DPP10	1.49	-0.21	0.3	DPP10 dipeptidyl-peptidase 10 (non-functional) [Source:HGNC Syrr
11	DCP1B	1.48	-0.35	0.33	DCP1B decapping mRNA 1B [Source:HGNC Symbol;Acc:HGNC:244]
12	UBR1	1.44	-0.77	0.26	UBR1 ubiquitin protein ligase E3 component n-recognin 1 [Source:f]
13	POLR1B	1.44	-0.88	0.35	POLR1B polymerase (RNA) I polypeptide B, 128kDa [Source:HGNC S
14	TOMM40L	1.43	-0.16	0.25	TOMM40translocase of outer mitochondrial membrane 40 homolog (ye
15	MFSD10	1.42	-0.48	0.37	MFSD10 major facilitator superfamily domain containing 10 [Source:HC
16	HELB	1.42	-0.2	0.37	HELB helicase (DNA) B [Source:HGNC Symbol;Acc:HGNC:17196]
17	TSC22D3	1.4	-0.56	0.21	TSC22D3TSC22 domain family, member 3 [Source:HGNC Symbol;Acc
18	PXYLP1	1.4	-0.2	0.25	PXYLP1 2-phosphorylase phosphatase 1 [Source:HGNC Symbol;Acc
19	RAD17	1.39	-0.6	0.39	RAD17 RAD17 homolog (S. pombe) [Source:HGNC Symbol;Acc:HGI
20	RBBP9	1.39	-0.61	0.34	RBBP9 retinoblastoma binding protein 9 [Source:HGNC Symbol;Acc:

Geneset Overrepresentation

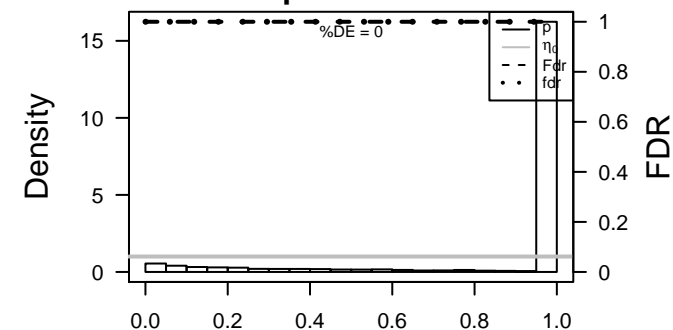
Rank	p-value	#in/all	Geneset
1	3e-05	54 / 8580	Colon TxWk_Colon
2	6e-05	35 / 4414	TF ICGC_Bclaf101388_targets
3	6e-05	55 / 9027	Colon Tx_Colon
4	8e-05	17 / 1383	TF ICGC_Six5_targets
5	1e-04	32 / 3924	TF ICGC_Zeb1_targets
6	1e-04	49 / 7592	Lymp HOPP_Active_promoter
7	1e-04	20 / 1878	TF ICGC_Cebppsc150_targets
8	1e-04	38 / 5184	Lymp HOPP_Txn_transition
9	1e-04	25 / 2714	TF ICGC_Irf4_targets
10	2e-04	5 / 127	GSE/ REACTOME_METABOLISM_OF_MRNA
11	3e-04	5 / 134	GSE/ NOUZOVA_TRETINOIN_AND_H4_ACETYLATION
12	6e-04	35 / 4879	TF ICGC_Pmlsc71910_targets
13	6e-04	34 / 4689	TF ICGC_Taf1_targets
14	6e-04	35 / 4909	TF ICGC_Stat5_targets
15	7e-04	3 / 39	GSE/ GENTILE_UV_RESPONSE_CLUSTER_D5
16	7e-04	20 / 2136	TF ICGC_GabpPcr2_targets
17	7e-04	20 / 2137	TF ICGC_SrfV0416101_targets
18	8e-04	37 / 5374	TF ICGC_Pax5_targets
19	8e-04	34 / 4774	TF ICGC_Foxm1_targets
20	9e-04	10 / 687	BP gene expression
21	9e-04	3 / 43	GSE/ REACTOME_DEADENYLATION_DEPENDENT_MRNA_DECAY
22	1e-03	5 / 171	GSE/ REACTOME_METABOLISM_OF_RNA
23	1e-03	34 / 4829	TF ICGC_Nficsc81335_targets
24	1e-03	42 / 6564	Lymp HOPP_Strong_enhancer
25	1e-03	15 / 1418	TF ICGC_Ets1_targets
26	1e-03	3 / 47	GSE/ REACTOME_REGULATION_OF_ORNITHINE_DECARBOXYLASE_ODC
27	1e-03	2 / 12	MF RNA polymerase I activity
28	1e-03	12 / 990	GSE/ DANG_BOUND_BY_MYC
29	1e-03	3 / 48	BP regulation of cellular amino acid metabolic process
30	1e-03	2 / 13	CC DNA-directed RNA polymerase I complex
31	2e-03	7 / 385	GSE/ MIKKELSEN_NPC_ICP_WITH_H3K4ME3
32	2e-03	5 / 191	GSE/ REACTOME_ANTIGEN_PROCESSING_UBIQUITINATION_PROTEASOM
33	2e-03	3 / 52	BP nuclear-transcribed mRNA catabolic process, deadenylation-dependent d
34	2e-03	36 / 5355	TF ICGC_Pol2_targets
35	2e-03	8 / 502	GSE/ KIM_ALL_DISORDERS_CALB1_CORR_UP
36	2e-03	2 / 14	GSE/ REACTOME_MRNA_DECAY_BY_5_TO_3_EXORIBONUCLEASE
37	2e-03	43 / 6929	Lymp HOPP_Txn_elongation
38	2e-03	3 / 56	GSE/ KEGG_RNA_DEGRADATION
39	2e-03	35 / 5200	TF ICGC_Mta3_targets
40	2e-03	31 / 4385	TF ICGC_Atf2_targets

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: i

metagenes = 4
genes = 72

<r> metagenes = 0.96
<r> genes = 0.13
beta: r2= 1.16 / log p= -Inf

samples with spot = 11 (12 %)
MSC1 : 1 (2.4 %)
MSC2 : 5 (20 %)
MSC3 : 5 (20 %)

Spot Genelist

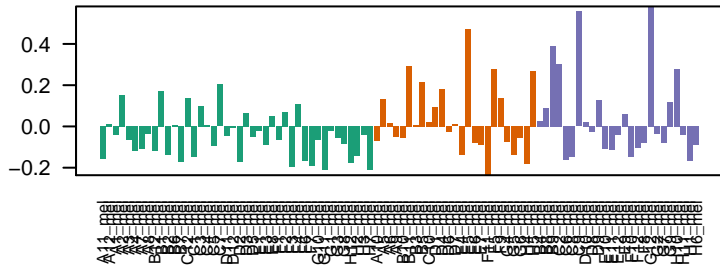
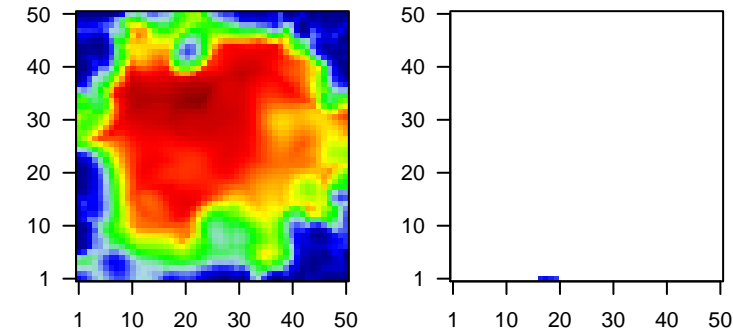
Rank	ID	max e	r	min e	Description
					Symbol
1	RORB	1.67	-0.16	0.4	RORB RAR-related orphan receptor B [Source:HGNC Symbol;Acc:HGNC:10000]
2	PRDM4	1.67	-0.36	0.35	PRDM4 PR domain containing 4 [Source:HGNC Symbol;Acc:HGNC:10000]
3	SLC39A3	1.61	-0.35	0.41	SLC39A3solute carrier family 39 (zinc transporter), member 3 [Source:HGNC Symbol;Acc:HGNC:10000]
4	AC004381.6	1.6	-0.22	0.34	
5	SARS2	1.6	-0.55	0.31	SARS2 seryl-tRNA synthetase 2, mitochondrial [Source:HGNC Synt
6	NFIX	1.57	-0.33	0.44	NFIX nuclear factor I/X (CCAAT-binding transcription factor) [Sourc
7	ABCA7	1.54	-0.2	0.44	ABCA7 ATP-binding cassette, sub-family A (ABC1), member 7 [Sou
8	MPDZ	1.54	-0.52	0.36	MPDZ multiple PDZ domain protein [Source:HGNC Symbol;Acc:HGNC:10000]
9	ACP5	1.53	-0.12	0.48	ACP5 acid phosphatase 5, tartrate resistant [Source:HGNC Symbol
10	ADCK1	1.53	-0.23	0.3	ADCK1 aarF domain containing kinase 1 [Source:HGNC Symbol;Acc:HGNC:10000]
11	PRMT9	1.48	-0.3	0.25	PRMT9 protein arginine methyltransferase 9 [Source:HGNC Symbol;A
12	KIAA0586	1.48	-0.54	0.33	KIAA0586KIAA0586 [Source:HGNC Symbol;Acc:HGNC:19960]
13	AREL1	1.46	-0.72	0.31	AREL1 apoptosis resistant E3 ubiquitin protein ligase 1 [Source:HGN
14	RDH13	1.45	-0.46	0.24	RDH13 retinol dehydrogenase 13 (all-trans-9-cis) [Source:HGNC Sy
15	SFXN5	1.45	-0.18	0.34	SFXN5 sideroflexin 5 [Source:HGNC Symbol;Acc:HGNC:16073]
16	RGMB	1.44	-0.5	0.26	RGMB repulsive guidance molecule family member b [Source:HGNC
17	ANKS3	1.42	-0.39	0.41	ANKS3 ankyrin repeat and sterile alpha motif domain containing 3 [S
18	ANKRD37	1.42	-0.26	0.33	ANKRD37ankyrin repeat domain 37 [Source:HGNC Symbol;Acc:HGNC
19	AHSA2	1.41	-0.46	0.22	AHSA2 AHA1, activator of heat shock 90kDa protein ATPase homolo
20	SLC30A6	1.41	-0.59	0.29	SLC30A6solute carrier family 30 (zinc transporter), member 6 [Source:

Geneset Overrepresentation

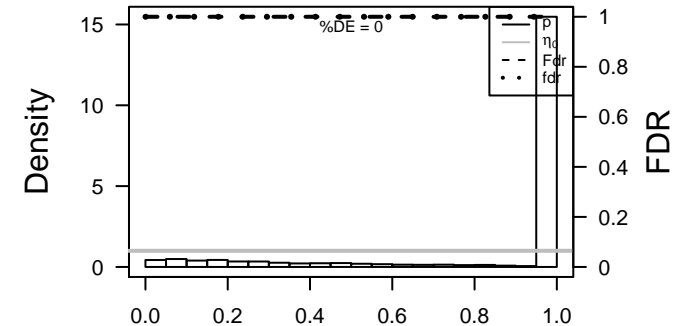
Rank	p-value	#in/all	Geneset
1	2e-05	58 / 8580	Colon TxWk_Colon
2	3e-05	21 / 1693	GSE/ GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_DN
3	7e-05	3 / 17	BP zinc II ion transport
4	1e-04	58 / 9027	Colon Tx_Colon
5	4e-04	3 / 31	CC membrane coat
6	1e-03	4 / 92	GSE/ JAZAG_TGFB1_SIGNALING_UP
7	1e-03	2 / 10	BP positive regulation of cellular metabolic process
8	1e-03	4 / 102	miRN hsa-miR-1301
9	1e-03	2 / 12	GSE/ IVANOV_MUTATED_IN_COLON_CANCER
10	2e-03	46 / 6929	Lymph HOPP_Txn_elongation
11	2e-03	2 / 13	BP zinc II ion transmembrane transport
12	2e-03	2 / 13	MF zinc ion transmembrane transporter activity
13	2e-03	5 / 186	miRN hsa-miR-586
14	2e-03	2 / 14	MF ferrous iron binding
15	2e-03	4 / 112	GSE/ KEGG_LYSOSOME
16	2e-03	3 / 54	miRN hsa-miR-518d-5p
17	2e-03	3 / 54	miRN hsa-miR-520c-5p
18	2e-03	2 / 15	MF cation transmembrane transporter activity
19	3e-03	6 / 288	GSE/ WEST_ADRENOCORTICAL_TUMOR_UP
20	3e-03	7 / 391	miRN hsa-miR-519a
21	3e-03	8 / 506	GSE/ MASSARWEH_TAMOXIFEN_RESISTANCE_UP
22	3e-03	52 / 8415	Color Quies3_Colon
23	3e-03	4 / 124	GSE/ MCBRYAN_PUBERTAL_BREAST_5_6WK_DN
24	3e-03	2 / 17	CC costamere
25	3e-03	2 / 17	GSE/ REACTOME_NEF_MEDIATES_DOWN_MODULATION_OF_CELL_SURFA
26	3e-03	3 / 60	miRN hsa-miR-296-3p
27	4e-03	3 / 65	miRN hsa-miR-30e*
28	4e-03	40 / 5940	Brain Overlap_fetal_midbrain_HetRpts
29	4e-03	7 / 424	GSE/ MILL_PSEUDOPODIA_CHEMOTAXIS_DN
30	4e-03	2 / 21	CC clathrin adaptor complex
31	5e-03	2 / 22	BP regulation of defense response to virus by virus
32	5e-03	2 / 22	GSE/ REACTOME_THE_ROLE_OF_NEF_IN_HIV1_REPLICATION_AND_DISE
33	5e-03	2 / 23	BP positive regulation of ATPase activity
34	5e-03	13 / 1237	BP metabolic process
35	6e-03	4 / 155	GSE/ GINESTIER_BREAST_CANCER_20Q13_AMPLIFICATION_DN
36	7e-03	2 / 27	BP phospholipid biosynthetic process
37	7e-03	3 / 83	miRN hsa-miR-30a*
38	7e-03	3 / 83	GSE/ AMUNDSON_POOR_SURVIVAL_AFTER_GAMMA_RADIATION_8G
39	8e-03	2 / 28	GSE/ BILANGES_RAPAMYCIN_SENSITIVE_GENES
40	8e-03	2 / 29	GSE/ DANG_MYC_TARGETS_DN

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: j

metagenes = 11
genes = 79

<r> metagenes = 0.95
<r> genes = 0.17
beta: r2= 1.59 / log p= -Inf

samples with spot = 10 (10.9 %)
MSC2 : 1 (4 %)
MSC3 : 9 (36 %)

Spot Genelist

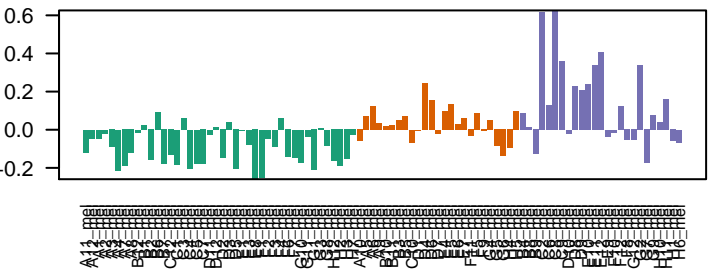
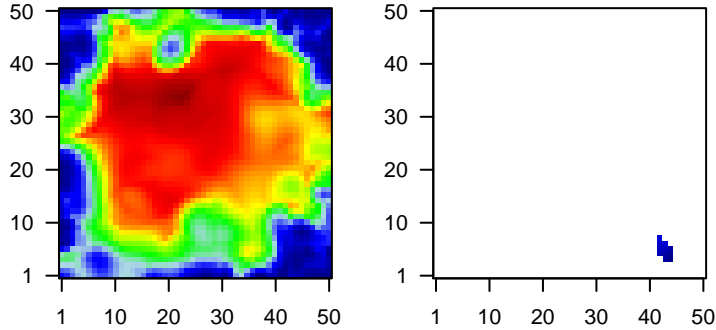
Rank	ID	max e	r	min e	Description
1	AP2A2	1.86	-0.65	0.42	AP2A2 adaptor-related protein complex 2, alpha 2 subunit [Source:HGNC Symbol;Acc:HGNC:10468]
2	TIGD6	1.81	-0.15	0.51	TIGD6 tigger transposable element derived 6 [Source:HGNC Symbol;Acc:HGNC:28983]
3	HSPG2	1.69	-0.27	0.33	HSPG2 heparan sulfate proteoglycan 2 [Source:HGNC Symbol;Acc:HGNC:10468]
4	PNPLA3	1.68	-0.22	0.36	PNPLA3 patatin-like phospholipase domain containing 3 [Source:HGNC Symbol;Acc:HGNC:10468]
5	USP45	1.66	-0.5	0.31	USP45 ubiquitin specific peptidase 45 [Source:HGNC Symbol;Acc:HGNC:10468]
6	TNIP1	1.59	-0.28	0.43	TNIP1 TNFAIP3 interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:10468]
7	EHD2	1.48	-0.17	0.56	EHD2 EH-domain containing 2 [Source:HGNC Symbol;Acc:HGNC:10468]
8	RUNX1	1.45	-0.83	0.41	RUNX1 runt-related transcription factor 1 [Source:HGNC Symbol;Acc:HGNC:10468]
9	HIST2H2AA4	1.39	-0.5	0.47	HIST2H2AA4 histone cluster 2, H2aa4 [Source:HGNC Symbol;Acc:HGNC:10468]
10	LRRK1	1.38	-0.11	0.56	LRRK1 leucine-rich repeat kinase 1 [Source:HGNC Symbol;Acc:HGNC:10468]
11	PES1	1.38	-0.54	0.31	PES1 pescadillo ribosomal biogenesis factor 1 [Source:HGNC Symbol;Acc:HGNC:10468]
12	RTN2	1.37	-0.21	0.42	RTN2 reticulon 2 [Source:HGNC Symbol;Acc:HGNC:10468]
13	GATAD1	1.37	-0.48	0.36	GATAD1 GATA zinc finger domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10468]
14	INTS6	1.35	-0.71	0.24	INTS6 integrator complex subunit 6 [Source:HGNC Symbol;Acc:HGNC:10468]
15	KIAA0195	1.34	-0.77	0.25	KIAA0195 KIAA0195 [Source:HGNC Symbol;Acc:HGNC:28983]
16	SMG5	1.31	-0.73	0.41	SMG5 SMG5 nonsense mediated mRNA decay factor [Source:HGNC Symbol;Acc:HGNC:10468]
17	FBXL20	1.29	-0.54	0.49	FBXL20 F-box and leucine-rich repeat protein 20 [Source:HGNC Symbol;Acc:HGNC:10468]
18	ACBD4	1.27	-0.15	0.4	ACBD4 acyl-CoA binding domain containing 4 [Source:HGNC Symbol;Acc:HGNC:10468]
19	ACCS	1.26	-0.14	0.58	ACCS 1-aminocyclopropane-1-carboxylate synthase homolog [Source:HGNC Symbol;Acc:HGNC:10468]
20	B9D1	1.24	-0.85	0.26	B9D1 B9 protein domain 1 [Source:HGNC Symbol;Acc:HGNC:2412]

Geneset Overrepresentation

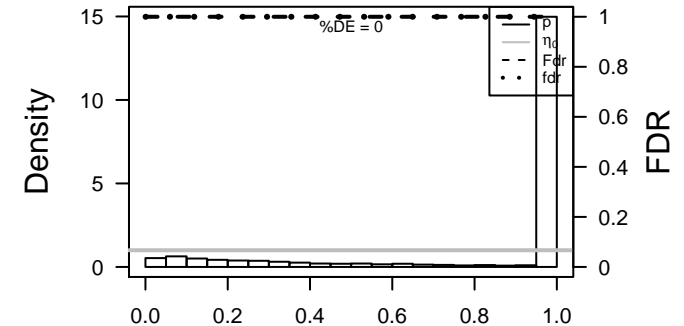
Rank	p-value	#in/all	Geneset
1	2e-04	9 / 396	GSE/ JOHNSTONE_PARVB_TARGETS_3_UP
2	3e-04	18 / 1383	TF ICGC_Six5_targets
3	3e-04	6 / 170	miRN hsa-miR-7
4	4e-04	2 / 6	LympI DAVE_MHCII BL DN
5	6e-04	2 / 7	GSE/ REACTOME_ENDOSOMAL_VACUOLAR_PATHWAY
6	8e-04	3 / 35	BP cellular response to starvation
7	1e-03	2 / 9	GSE/ TURJANSKI_MAPK14_TARGETS
8	1e-03	27 / 2836	TF ICGC_BatPcr1_targets
9	1e-03	2 / 10	CC MHC class I protein complex
10	1e-03	3 / 41	GSE/ CHEN_NEUROBLASTOMA_COPY_NUMBER_GAINS
11	2e-03	3 / 43	GSE/ CAMPS_COLON_CANCER_COPY_NUMBER_DN
12	2e-03	5 / 169	miRN hsa-miR-374b
13	2e-03	2 / 13	BP DNA damage response, signal transduction by p53 class mediator
14	2e-03	3 / 48	CancI KUIPER_MM poor survival
15	3e-03	2 / 15	GSE/ GALE_APL_WITH_FLT3_MUTATED_DN
16	3e-03	2 / 15	GSE/ GEISS_RESPONSE_TO_DSRNA_DN
17	3e-03	5 / 182	miRN hsa-miR-374a
18	3e-03	2 / 16	BP positive regulation of T cell mediated cytotoxicity
19	3e-03	2 / 16	GSE/ KIM_MYCL1_AMPLIFICATION_TARGETS_DN
20	3e-03	2 / 16	GSE/ HOFMANN_MYELODYSPLASTIC_SYNDROM_LOW_RISK_UP
21	3e-03	3 / 57	GSE/ ROSS_AML_WITH_PML_RARA_FUSION
22	4e-03	4 / 118	MF carbohydrate binding
23	4e-03	2 / 17	CC basal lamina
24	4e-03	2 / 17	GSE/ NUMATA_CSF3_SIGNALING_VIA_STAT3
25	4e-03	3 / 59	GSE/ CADWELL_ATG16L1_TARGETS_UP
26	4e-03	2 / 18	Lifest DUMEAUX_High bmi enriched genes
27	4e-03	2 / 18	GSE/ KEGG_GRAFT_VERSUS_HOST_DISEASE
28	4e-03	4 / 123	GSE/ JOHNSTONE_PARVB_TARGETS_2_UP
29	4e-03	3 / 61	miRN hsa-miR-514
30	4e-03	3 / 62	GSE/ NATSUME_RESPONSE_TO_INTERFERON_BETA_UP
31	5e-03	2 / 19	GSE/ KEGG_ALLOGRAFT_REJECTION
32	5e-03	2 / 19	GSE/ REACTOME_HS_GAG_DEGRADATION
33	5e-03	2 / 19	GSE/ REACTOME_ANTIGEN_PRESENTATION_FOLDING_ASSEMBLY_AND_TRANSPORT
34	5e-03	0 / 14	CancI LIU_PROSTATE_CANCER_DN
35	5e-03	3 / 64	GSE/ REACTOME_AMYLOIDS
36	5e-03	2 / 20	GSE/ KEGG_AUTOIMMUNE_THYROID_DISEASE
37	5e-03	2 / 20	GSE/ NIKOLSKY_BREAST_CANCER_15Q26_AMPICON
38	6e-03	34 / 4314	TF ICGC_Ebfsc137065_targets
39	6e-03	3 / 68	GSE/ SANA_TNF_SIGNALING_UP
40	6e-03	3 / 69	miRN hsa-miR-873

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: k

metagenes = 22
genes = 117

<r> metagenes = 0.91
<r> genes = 0.14
beta: r2= 1.52 / log p= -Inf

samples with spot = 5 (5.4 %)
MSC3 : 5 (20 %)

Spot Genelist

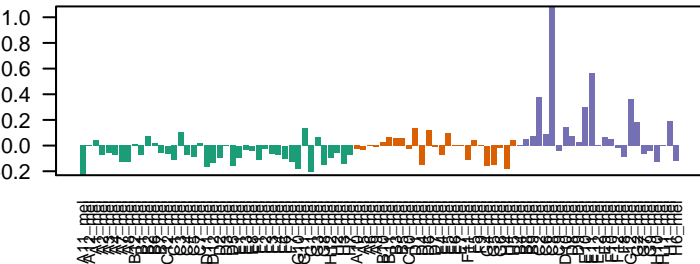
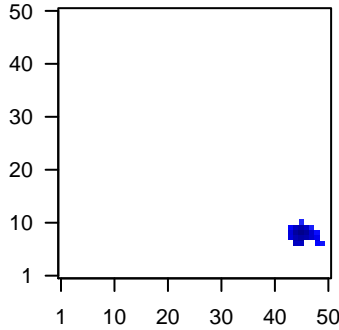
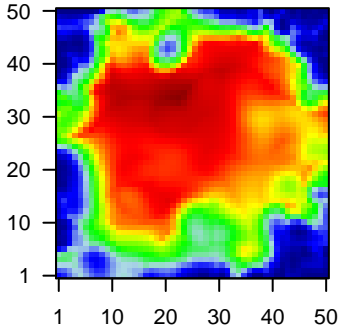
Rank	ID	max e	r	min e	Description
					Symbol
1	LUM	3.07	-0.63	0.39	LUM lumican [Source:HGNC Symbol;Acc:HGNC:6724]
2	CADM1	2.03	-0.14	0.49	CADM1 cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:10467]
3	RTN1	2	-0.05	0.87	RTN1 reticulon 1 [Source:HGNC Symbol;Acc:HGNC:10467]
4	MYH3	1.9	-0.09	0.63	MYH3 myosin, heavy chain 3, skeletal muscle, embryonic [Source:HGNC Symbol;Acc:HGNC:10467]
5	ZSCAN31	1.86	-0.22	0.4	ZSCAN31 zinc finger and SCAN domain containing 31 [Source:HGNC Symbol;Acc:HGNC:10467]
6	CTC1	1.84	-0.21	0.34	CTC1 CTS telomere maintenance complex component 1 [Source:HGNC Symbol;Acc:HGNC:10467]
7	EXT1	1.78	-0.36	0.4	EXT1 exostosin glycosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:10467]
8	FST	1.77	-0.31	0.4	FST follistatin [Source:HGNC Symbol;Acc:HGNC:3971]
9	PICALM	1.74	-0.64	0.45	PICALM phosphatidylinositol binding clathrin assembly protein [Source:HGNC Symbol;Acc:HGNC:10467]
10	IGFBP7	1.71	-0.16	0.54	IGFBP7 insulin-like growth factor binding protein 7 [Source:HGNC Symbol;Acc:HGNC:10467]
11	PTCHD4	1.7	-0.23	0.59	PTCHD4 patched domain containing 4 [Source:HGNC Symbol;Acc:HGNC:10467]
12	CALCOCO1	1.7	-0.37	0.48	CALCOCO1 calcium binding and coiled-coil domain 1 [Source:HGNC Symbol;Acc:HGNC:10467]
13	HEMK1	1.68	-0.19	0.47	HEMK1 HemK methyltransferase family member 1 [Source:HGNC Symbol;Acc:HGNC:10467]
14	BMI1	1.67	-0.81	0.21	BMI1 BMI1 proto-oncogene, polycomb ring finger [Source:HGNC Symbol;Acc:HGNC:10467]
15	PDE5A	1.66	-0.76	0.32	PDE5A phosphodiesterase 5A, cGMP-specific [Source:HGNC Symbol;Acc:HGNC:10467]
16	PPP2R5B	1.65	-0.11	0.51	PPP2R5B protein phosphatase 2, regulatory subunit B', beta [Source:HGNC Symbol;Acc:HGNC:10467]
17	MANBA	1.64	-0.29	0.46	MANBA mannosidase, beta A, lysosomal [Source:HGNC Symbol;Acc:HGNC:10467]
18	SLC41A2	1.63	-0.37	0.3	SLC41A2 solute carrier family 41 (magnesium transporter), member 2 [Source:HGNC Symbol;Acc:HGNC:10467]
19	NFIL3	1.62	-0.45	0.35	NFIL3 nuclear factor, interleukin 3 regulated [Source:HGNC Symbol;Acc:HGNC:10467]
20	ZNF81	1.61	-0.16	0.41	ZNF81 zinc finger protein 81 [Source:HGNC Symbol;Acc:HGNC:131:10467]

Geneset Overrepresentation

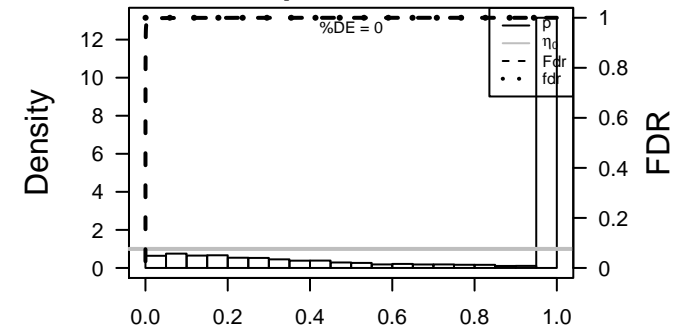
Rank	p-value	#in/all	Geneset
1	2e-06	6 / 46	GSE/ SESTO_RESPONSE_TO_UV_C5
2	1e-05	70 / 5940	Brain Overlap_fetal_midbrain_HetRpts
3	2e-05	14 / 472	GSE/ DUTERTRE ESTRADIOL_RESPONSE_24HR_DN
4	5e-05	5 / 52	CC coated pit
5	6e-05	78 / 7209	Lymph HOPP_Weak_promoter
6	6e-05	88 / 8580	Colon TxWk_Colon
7	9e-05	13 / 473	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
8	2e-04	90 / 9027	Colon Tx_Colon
9	2e-04	16 / 741	GSE/ LASTOWSKA_NEUROBLASTOMA_COPY_NUMBER_DN
10	5e-04	7 / 179	miRN hsa-miR-582-5p
11	5e-04	6 / 129	miRN hsa-miR-576-3p
12	5e-04	4 / 48	GSE/ HOWLIN_PUBERTAL_MAMMARY_GLAND
13	7e-04	88 / 9020	Brain Overlap_fetal_midbrain_ReprPCWk
14	8e-04	3 / 23	miRN hsa-miR-1227
15	8e-04	16 / 833	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
16	1e-03	3 / 25	BP activation of GTPase activity
17	1e-03	5 / 97	GSE/ SENESE_HDAC2_TARGETS_DN
18	1e-03	83 / 8415	Color Quies3_Colon
19	1e-03	6 / 146	miRN hsa-miR-140-5p
20	1e-03	7 / 206	GSE/ VANOEVLEN_MYOGENESIS_SIN3A_TARGETS
21	1e-03	4 / 60	BP regulation of GTPase activity
22	1e-03	4 / 61	GSE/ SETLUR_PROSTATE_CANCER_TMRSS2_ERG_FUSION_UP
23	1e-03	3 / 28	BP vesicle organization
24	2e-03	4 / 63	GSE/ LINDVALL_IMMORTALIZED_BY_TERT_UP
25	2e-03	71 / 6929	Lymph HOPP_Txn_elongation
26	2e-03	89 / 9330	Brain Overlap_fetal_midbrain_ReprPC
27	2e-03	76 / 7592	Lymph HOPP_Active_promoter
28	2e-03	10 / 426	GSE/ ZWANG_CLASS_1_TRANSIENTLY_INDUCED_BY_EGF
29	2e-03	3 / 32	BP regulation of synaptic plasticity
30	2e-03	12 / 581	BP negative regulation of transcription from RNA polymerase II promoter
31	2e-03	4 / 69	GSE/ ROSS_LEUKEMIA_WITH_MLL_FUSIONS
32	2e-03	113 / 13179	MF molecular_function
33	2e-03	5 / 116	GSE/ FIGUEROA_AML_METHYLATION_CLUSTER_6_UP
34	3e-03	4 / 73	BP cation transport
35	3e-03	7 / 238	GSE/ ZHOU_INFLAMMATORY_RESPONSE_FIMA_DN
36	3e-03	2 / 11	BP relaxation of cardiac muscle
37	3e-03	10 / 458	GSE/ ENK_UV_RESPONSE_EPIDERMIS_DN
38	3e-03	7 / 246	CC dendrite
39	3e-03	9 / 385	GSE/ REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
40	4e-03	17 / 1050	Brain Fetal_EnhP

Overview Map

Spot



p-values



Rank	p-value	#in/all
1	0.0000	100
2	0.0000	100
3	0.0000	100
4	0.0000	100
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Geneset
 HORAVALT_aging_genes_meth_UP
 TESCHENDORFF_age_hypermethylated

Rank	p-value	#in/all
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Geneset
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 CEN111_meth_modul14
 CEN111_meth_modul14
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 PanCan_P3k_geneset_nanostring
 RUCIES_CANCER_META_SIGNATURE
 Lemboke_Clinical_inflammation
 SPANES_BIOMARKERS
 PanCan_WAPK_geneset_nanostring
 Lemboke_Abnormal_Acetylation
 SOTHIROD_BREAST_CANCER_GRADE_1_VS_3_DN
 LIU_BREAST_CANCER
 LIU_COMMON_CANCER_GENES
 LIU_LIVER_CANCER

Rank	p-value	#in/all
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Geneset
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 Ouis3_Colon
 Ouis3_Colon
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 Ouis3_Colon
 LSSW_Colon
 Farnkrug_CRC_TCGA_corr_S_normal_DN
 Farnkrug_CRC_TCGA_corr_S_normal_DN
 Jewish_dMMR_secondary-mutations_Apoptosis
 Marisa_HNPCC-mutated-in-5
 Marisa_CRC-C3
 Marisa_CRC-C3
 Marisa_CRC-cluster-a
 LSSD1_Colon
 Farnkrug_CRC_TCGA_corr_C_normal_UP
 LSSD2_Colon
 LSSD2_Colon
 TXEnfrG2_Colon

Rank	p-value	#in/all
1	0.0000	100
2	0.0000	100
3	0.0000	100
4	0.0000	100
5	0.0000	100
6	0.0000	100
7	0.0000	100
8	0.0000	100
9	0.0000	100
10	0.0000	100
11	0.0000	100
12	0.0000	100
13	0.0000	100
14	0.0000	100
15	0.0000	100
16	0.0000	100
17	0.0000	100
18	0.0000	100
19	0.0000	100
20	0.0000	100
21	0.0000	100
22	0.0000	100
23	0.0000	100
24	0.0000	100
25	0.0000	100
26	0.0000	100
27	0.0000	100
28	0.0000	100
29	0.0000	100
30	0.0000	100
31	0.0000	100
32	0.0000	100
33	0.0000	100
34	0.0000	100
35	0.0000	100
36	0.0000	100
37	0.0000	100
38	0.0000	100
39	0.0000	100
40	0.0000	100
41	0.0000	100
42	0.0000	100
43	0.0000	100
44	0.0000	100
45	0.0000	100
46	0.0000	100
47	0.0000	100
48	0.0000	100
49	0.0000	100
50	0.0000	100
51	0.0000	100
52	0.0000	100
53	0.0000	100
54	0.0000	100
55	0.0000	100
56	0.0000	100
57	0.0000	100
58	0.0000	100
59	0.0000	100
60	0.0000	100
61	0.0000	100
62	0.0000	100
63	0.0000	100
64	0.0000	100
65	0.0000	100
66	0.0000	100
67	0.0000	100
68	0.0000	100
69	0.0000	100
70	0.0000	100
71	0.0000	100
72	0.00	

Underexpression Spots

Spot Summary: I

metagenes = 11
genes = 63

<r> metagenes = 0.93

<r> genes = 0.13

beta: r2= 0.93 / log p= -Inf

samples with spot = 6 (6.5 %)

MSC2 : 4 (16 %)

MSC3 : 2 (8 %)

Spot Genelist

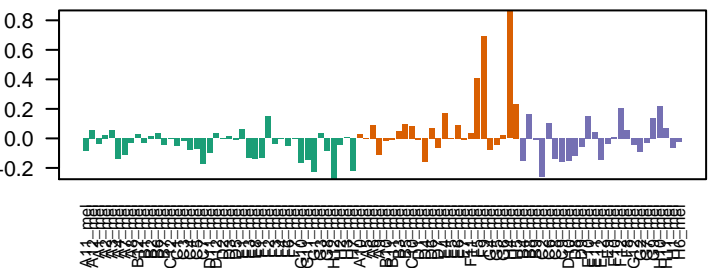
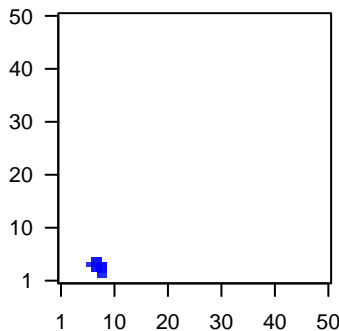
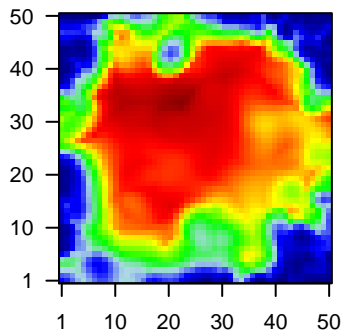
Rank	ID	max e	r	min e	Description
					Symbol
1	LYSMD2	1.8	-0.24	0.55	LYSMD2 LysM, putative peptidoglycan-binding, domain containing 2 [
2	C5	1.65	-0.12	0.42	C5 complement component 5 [Source:HGNC Symbol;Acc:HGNC
3	TBC1D2B	1.65	-0.13	0.36	TBC1D2B TBC1 domain family, member 2B [Source:HGNC Symbol;Acc
4	ZNF462	1.64	-0.44	0.46	ZNF462 zinc finger protein 462 [Source:HGNC Symbol;Acc:HGNC:21
5	ELAC1	1.52	-0.56	0.28	ELAC1 elaC ribonuclease Z 1 [Source:HGNC Symbol;Acc:HGNC:14
6	SLC2A10	1.49	-0.29	0.42	SLC2A10 solute carrier family 2 (facilitated glucose transporter), membe
7	ZSCAN2	1.48	-0.17	0.42	ZSCAN2 zinc finger and SCAN domain containing 2 [Source:HGNC Sy
8	PTPN4	1.47	-0.66	0.36	PTPN4 protein tyrosine phosphatase, non-receptor type 4 (megakar
9	ZNF236	1.45	-0.61	0.35	ZNF236 zinc finger protein 236 [Source:HGNC Symbol;Acc:HGNC:13
10	MTCL1	1.45	-0.21	0.33	MTCL1 microtubule crosslinking factor 1 [Source:HGNC Symbol;Acc:
11	RAP1A	1.44	-0.41	0.32	RAP1A RAP1A, member of RAS oncogene family [Source:HGNC Sym
12	ZFAT	1.42	-0.4	0.38	ZFAT zinc finger and AT hook domain containing [Source:HGNC Sy
13	OBSCN	1.39	-0.31	0.32	OBSCN obscurin, cytoskeletal calmodulin and titin-interacting RhoGE
14	KCNAB1	1.34	-0.16	0.49	KCNAB1 potassium channel, voltage gated subfamily A regulatory beta
15	NUMB	1.33	-0.72	0.31	NUMB numb homolog (Drosophila) [Source:HGNC Symbol;Acc:HGNC
16	ZNF432	1.33	-0.35	0.37	ZNF432 zinc finger protein 432 [Source:HGNC Symbol;Acc:HGNC:20
17	FAM78A	1.3	-0.11	0.36	FAM78A family with sequence similarity 78, member A [Source:HGNC
18	MEGF8	1.28	-0.14	0.42	MEGF8 multiple EGF-like-domains 8 [Source:HGNC Symbol;Acc:HC
19	PTPRJ	1.27	-0.63	0.44	PTPRJ protein tyrosine phosphatase, receptor type, J [Source:HGNC
20	STRBP	1.27	-0.67	0.36	STRBP spermatid perinuclear RNA binding protein [Source:HGNC S

Geneset Overrepresentation

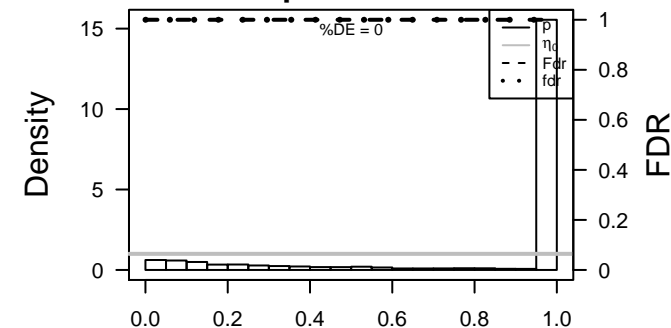
Rank	p-value	#in/all	Geneset
1	2e-05	42 / 5940	Brain Overlap_fetal_midbrain_HetRpts
2	2e-04	4 / 71	MF ubiquitin-specific protease activity
3	6e-04	3 / 38	GSE# SILIGAN_BOUND_BY_EWS_FLT1_FUSION
4	7e-04	3 / 41	GSE# KEGG_NOTCH_SIGNALING_PATHWAY
5	8e-04	4 / 97	miRN hsa-miR-544
6	8e-04	2 / 10	BP positive regulation of astrocyte differentiation
7	9e-04	5 / 176	BP heart development
8	1e-03	2 / 11	BP negative regulation of oligodendrocyte differentiation
9	1e-03	5 / 183	miRN hsa-miR-1283
10	1e-03	3 / 49	BP protein deubiquitination
11	2e-03	2 / 14	BP positive regulation of JAK-STAT cascade
12	2e-03	2 / 14	GSE# FUKUSHIMA_TNFSF11_TARGETS
13	2e-03	8 / 527	GSE# ACEVEDO_METHYLATED_IN_LIVER_CANCER_DN
14	2e-03	2 / 15	CC extrinsic component of plasma membrane
15	2e-03	2 / 15	MF lysine-acetylated histone binding
16	2e-03	2 / 15	GSE# LUND_SILENCED_BY_METHYLATION
17	2e-03	2 / 17	BP neuronal stem cell maintenance
18	2e-03	2 / 17	BP protein K48-linked deubiquitination
19	2e-03	3 / 63	miRN hsa-miR-659
20	2e-03	5 / 221	Chr Chr 18
21	3e-03	2 / 18	BP regulation of neurogenesis
22	3e-03	2 / 18	Cancr PanCan_Notch_geneset_nanostrng
23	3e-03	2 / 19	BP labyrinthine layer blood vessel development
24	3e-03	5 / 233	miRN hsa-miR-26a
25	3e-03	6 / 340	miRN hsa-miR-142-5p
26	3e-03	49 / 9020	Brain Overlap_fetal_midbrain_ReprPCWk
27	3e-03	2 / 20	BP ventricular septum morphogenesis
28	3e-03	2 / 20	GSE# BARRIER_COLON_CANCER_RECURRENCE_DN
29	3e-03	5 / 239	miRN hsa-miR-152
30	4e-03	17 / 2013	TF ICGC_Bcl11_targets
31	4e-03	5 / 242	miRN hsa-miR-26b
32	4e-03	2 / 23	GSE# SCHRAMM_INHBA_TARGETS_DN
33	4e-03	3 / 77	GSE# PID_MET_PATHWAY
34	5e-03	2 / 24	BP mitotic cytokinesis
35	5e-03	4 / 160	miRN hsa-miR-1297
36	5e-03	2 / 25	BP positive regulation of BMP signaling pathway
37	5e-03	40 / 6929	Lymp HOPP_Txn_elongation
38	5e-03	2 / 26	GSE# KEGG_PRION_DISEASES
39	5e-03	46 / 8415	Color Quies3_Colon
40	6e-03	9 / 784	GSE# BUYAERT_PHOTODYNAMIC_THERAPY_STRESS_UP

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: m

metagenes = 25
genes = 335

<r> metagenes = 0.9
<r> genes = 0.17
beta: r2= 1.41 / log p= -Inf

samples with spot = 7 (7.6 %)

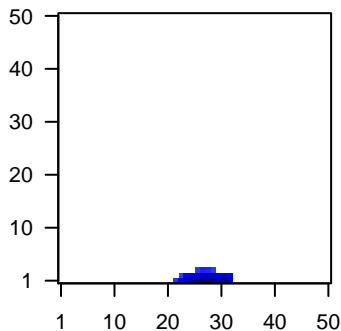
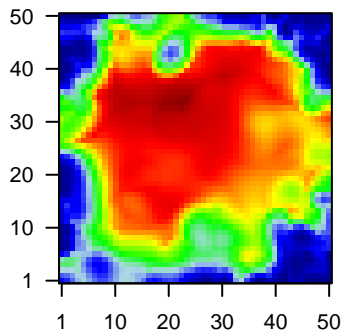
MSC1 : 1 (2.4 %)

MSC2 : 2 (8 %)

MSC3 : 4 (16 %)

Overview Map

Spot

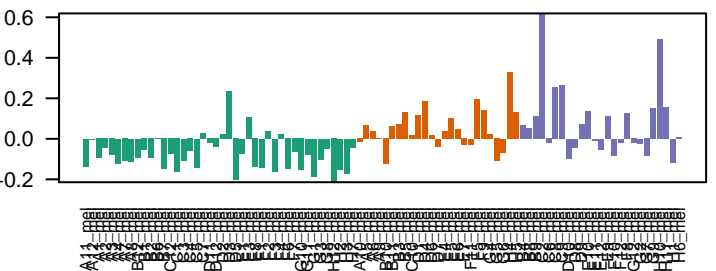


Spot Genelist

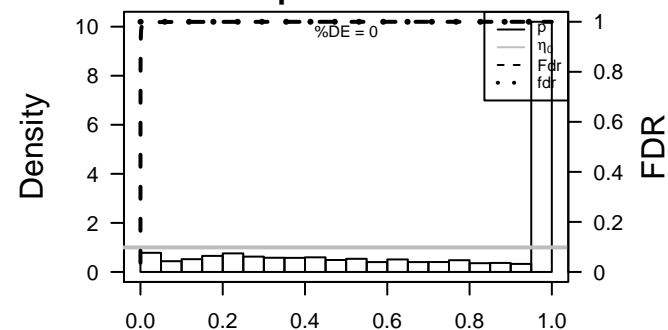
Rank	ID	max e	r	min e	Description
1	PELP1	1.9	-0.32	0.55	PELP1 proline, glutamate and leucine rich protein 1 [Source:HGNC S
2	RCBTB2	1.87	-0.27	0.37	RCBTB2 regulator of chromosome condensation (RCC1) and BTB (PC
3	BMP4	1.84	-0.21	0.45	BMP4 bone morphogenetic protein 4 [Source:HGNC Symbol;Acc:HGNC:1
4	AKR1C2	1.81	-0.32	0.34	AKR1C2 aldo-keto reductase family 1, member C2 [Source:HGNC Syr
5	BBS10	1.74	-0.2	0.49	BBS10 Bardet-Biedl syndrome 10 [Source:HGNC Symbol;Acc:HGNC:1
6	ATG2B	1.7	-0.32	0.46	ATG2B autophagy related 2B [Source:HGNC Symbol;Acc:HGNC:201
7	ZNF264	1.67	-0.28	0.42	ZNF264 zinc finger protein 264 [Source:HGNC Symbol;Acc:HGNC:13
8	SSX5	1.66	-0.14	0.38	SSX5 synovial sarcoma, X breakpoint 5 [Source:HGNC Symbol;Acc
9	ATG4A	1.64	-0.6	0.24	ATG4A autophagy related 4A, cysteine peptidase [Source:HGNC Syr
10	GALK2	1.64	-0.44	0.28	GALK2 galactokinase 2 [Source:HGNC Symbol;Acc:HGNC:4119]
11	ZNF525	1.63	-0.32	0.36	ZNF525 zinc finger protein 525 [Source:HGNC Symbol;Acc:HGNC:29
12	ITSN2	1.62	-0.64	0.33	ITSN2 intersectin 2 [Source:HGNC Symbol;Acc:HGNC:6184]
13	ABHD2	1.62	-0.46	0.29	ABHD2 abhydrolase domain containing 2 [Source:HGNC Symbol;Acc
14	IKBKE	1.62	-0.27	0.43	IKBKE inhibitor of kappa light polypeptide gene enhancer in B-cells,
15	TSPAN31	1.62	-0.77	0.34	TSPAN31 tetraspanin 31 [Source:HGNC Symbol;Acc:HGNC:10539]
16	ZNF28	1.61	-0.51	0.35	ZNF28 zinc finger protein 28 [Source:HGNC Symbol;Acc:HGNC:130
17	RNF25	1.6	-0.33	0.28	RNF25 ring finger protein 25 [Source:HGNC Symbol;Acc:HGNC:146
18	AKR1C3	1.59	-0.15	0.54	AKR1C3 aldo-keto reductase family 1, member C3 [Source:HGNC Syr
19	FBXO36	1.58	-0.24	0.35	FBXO36 F-box protein 36 [Source:HGNC Symbol;Acc:HGNC:27020]
20	STYX	1.58	-0.53	0.4	STYX serine/threonine/tyrosine interacting protein [Source:HGNC S

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-06	6 / 19	BP protein targeting to Golgi
2	3e-05	6 / 28	BP intracellular transport
3	7e-05	4 / 11	MF aldo-keto reductase (NADP) activity
4	3e-04	5 / 27	BP retina homeostasis
5	3e-04	9 / 99	GSE/ REACTOME_SIGNALING_BY_EGFR_IN_CANCER
6	3e-04	9 / 100	miRN hsa-miR-1299
7	4e-04	11 / 146	miRN hsa-miR-655
8	6e-04	16 / 287	GSE/ GRESHOCK_CANCER_COPY_NUMBER_UP
9	7e-04	6 / 49	miRN hsa-miR-1224-3p
10	7e-04	7 / 68	GSE/ KEGG_RENAL_CELL_CARCINOMA
11	7e-04	9 / 111	BP Notch signaling pathway
12	8e-04	10 / 136	GSE/ KEGG_CHEMOKINE_SIGNALING_PATHWAY
13	9e-04	8 / 92	GSE/ REACTOME_SIGNALING_BY_NOTCH
14	9e-04	6 / 52	GSE/ PID_NOTCH_PATHWAY
15	1e-03	8 / 93	GSE/ REACTOME_SIGNALING_BY_FGFR
16	1e-03	14 / 244	MF ubiquitin-protein transferase activity
17	1e-03	5 / 37	miRN hsa-miR-197
18	1e-03	4 / 23	BP secondary metabolic process
19	1e-03	4 / 23	BP spliceosomal complex assembly
20	1e-03	3 / 11	CC Gemini of coiled bodies
21	2e-03	5 / 41	GSE/ REACTOME_PRE_NOTCH_EXPRESSION_AND_PROCESSING
22	2e-03	3 / 12	CC SMN complex
23	2e-03	3 / 12	GSE/ PID_LPA4_PATHWAY
24	2e-03	3 / 12	GSE/ REACTOME_ADENYLATE_CYCLASE_INHIBITORY_PATHWAY
25	2e-03	3 / 12	GSE/ REACTOME_TRAF3_DEPENDENT_IRF_ACTIVATION_PATHWAY
26	2e-03	7 / 83	GSE/ REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED_FGFR
27	2e-03	155 / 5940	Brain Overlap_fetal_midbrain_HetRpts
28	2e-03	5 / 43	BP autophagic vacuole assembly
29	2e-03	5 / 43	GSE/ SIG_INSULIN_RECEPTOR_PATHWAY_IN_CARDIAC_MYOCYTES
30	2e-03	8 / 107	GSE/ REACTOME_SIGNALING_BY_FGFR_IN_DISEASE
31	2e-03	7 / 84	GSE/ REACTOME_DOWNSTREAM_SIGNAL_TRANSDUCTION
32	3e-03	3 / 13	MF GABA receptor binding
33	3e-03	29 / 761	GSE/ KOINUMA_TARGETS_OF_SMAD2_OR_SMAD3
34	3e-03	5 / 44	GSE/ PID_HES_HEY_PATHWAY
35	3e-03	4 / 27	GSE/ REACTOME_PRE_NOTCH_TRANSCRIPTION_AND_TRANSLATION
36	3e-03	4 / 27	GSE/ REACTOME_ABC_FAMILY_PROTEINS_MEDIATED_TRANSPORT
37	3e-03	4 / 27	GSE/ NOJIMA_SFRP2_TARGETS_UP
38	3e-03	16 / 336	BP protein ubiquitination
39	3e-03	53 / 1664	BP transcription, DNA-templated
40	3e-03	4 / 28	GSE/ KEGG_STEROID_HORMONE_BIOSYNTHESIS



p-values



Rank	p-value	#in/all	Geneset
1	0.0000	131	Pathway aging genes meth DOWN
2	0.0000	131	HORVAIL aging_genes meth UP
3	0.0000	131	TESCHENDORFF_age_hypermethylated

Rank	p-value	#in/all	Geneset
1	0.0000	36	pancan_driver_geneset_nanostring
2	0.0000	36	SPAN1_BCL2_index2
3	0.0000	36	PROSTATE_CANCER_UP
4	0.0000	36	BENIGN_ORAL_HIP
5	0.0000	36	COMMON_CANCER_GENES
6	0.0000	36	pancan_JAK_S1_geneset_nanostring
7	0.0000	36	pancan_p53_geneset_nanostring
8	0.0000	36	pancan_HH_geneset_nanostring
9	0.0000	36	pancan_WAPK_geneset_nanostring
10	0.0000	36	pancan_NAS_geneset_nanostring

Rank	p-value	#in/all	Geneset
1	0.0000	242	IXIK Colon
2	0.0000	263	Peritrack_CRC_TCGA_corr_1_msi-h_UP_mss_DN
3	0.0000	263	Manisa_CRC-cluster-c
4	0.0000	207	TCGA_MMR-secondary_mutations_Signal_transduction
5	0.0000	263	EnHA_Colon
6	0.0000	263	TCGA_Mutated-in-CRC_hypermethylated
7	0.0000	263	Vilar_mutated-in-CRC_hypermethylated
8	0.0000	263	EnHVK_Colon
9	0.0000	263	Ang_CRC_CGPH-vs-L_hypo
10	0.0000	263	Peritrack_CRC_TCGA_corr_S_normal_DN

Rank	p-value	#in/all	Geneset
1	0.0000	16	GRESHOCK_CANCER_NUMBER_UP
2	0.0000	16	KEGG_CHEMOKINE_SIGNALING_PATHWAY
3	0.0000	16	KEGG_CHEMOKINE_SIGNALING_BY_NOTCH
4	0.0000	16	KEGG_CHEMOKINE_SIGNALING_BY_FGFR
5	0.0000	16	KEGG_CHEMOKINE_SIGNALING_BY_TGFR
6	0.0000	16	KEGG_CHEMOKINE_SIGNALING_BY_TGFR2
7	0.0000	16	KEGG_CHEMOKINE_SIGNALING_BY_TGFR3
8	0.0000	16	KEGG_CHEMOKINE_SIGNALING_BY_TGFR4
9	0.0000	16	KEGG_CHEMOKINE_SIGNALING_BY_TGFR5
10	0.0000	16	KEGG_CHEMOKINE_SIGNALING_BY_TGFR6

Rank	p-value	#in/all	Geneset
1	0.0000	22	SPRING_BCR_DN
2	0.0000	22	SPRING_MHC_DN
3	0.0000	22	SPRING_XL_transition
4	0.0000	22	SPRING_mhc_mutated
5	0.0000	22	WRIGHT_BCL2_UP_BCL6_DN
6	0.0000	22	SPRING_DVS_TIP
7	0.0000	22	SPRING_DVS_TIP_green_total
8	0.0000	22	SPRING_DVS_TIP_green_UP
9	0.0000	22	SPRING_DVS_TIP_weak_bri
10	0.0000	22	SPRING_DVS_TIP_blue_total

Rank	p-value	#in/all	Geneset
1	0.0000	49	HOPB_Pxn_elongation
2	0.0000	49	CCNE1_Pcr1_P3K_UP
3	0.0000	49	CCNE1_Pcr1_P3K_DN
4	0.0000	49	CCNE1_Pcr1_P3K_DN
5	0.0000	49	CCNE1_Pcr1_P3K_DN
6	0.0000	49	CCNE1_Pcr1_P3K_DN
7	0.0000	49	CCNE1_Pcr1_P3K_DN
8	0.0000	49	CCNE1_Pcr1_P3K_DN
9	0.0000	49	CCNE1_Pcr1_P3K_DN
10	0.0000	49	CCNE1_Pcr1_P3K_DN

Rank	p-value	#in/all	Geneset
1	0.0000	11	WIRTH_CD8+ T-Cell signature up
2	0.0000	11	WIRTH_Cerebellum
3	0.0000	11	WIRTH_Hyroid_gland
4	0.0000	11	WIRTH_T-Cell signature up
5	0.0000	11	WIRTH_Placenta
6	0.0000	11	WIRTH_B-Cell signature up
7	0.0000	11	WIRTH_Liver
8	0.0000	11	WIRTH_Immune_system
9	0.0000	11	WIRTH_Nervous_System
10	0.0000	11	WIRTH_Granulocytes signature up

Rank	p-value	#in/all	Geneset
1	0.0000	11	WIRTH_Globus pallidus

Rank	p-value	#in/all	Geneset
1	0.0000	28	orthon targeting to Golgi
2	0.0000	28	intracellular transport
3	0.0000	28	retina homeostasis
4	0.0000	28	Notch signaling pathway
5	0.0000	28	secondary metabolic process
6	0.0000	28	spliceosomal complex assembly
7	0.0000	28	autophagic vacuole assembly
8	0.0000	28	protein ubiquitination
9	0.0000	28	transcription, DNA-templated
10	0.0000	28	epidermal growth factor receptor signaling pathway

Rank	p-value	#in/all	Geneset
1	0.0000	12	SMN complex
2	0.0000	12	lysosomal membrane
3	0.0000	12	SMN-Sm protein complex
4	0.0000	12	ubiquitin ubiquitin ligase complex
5	0.0000	12	peroxisomal membrane
6	0.0000	12	U4/U5/US tri-snRNP complex
7	0.0000	12	pre-autophagosomal structure membrane
8	0.0000	12	spliceosomal complex
9	0.0000	12	intracellular nucleoplasm
10	0.0000	12	Calnexin

Rank	p-value	#in/all	Geneset
1	0.0000	24	peroxisome
2	0.0000	24	ubiquitin ligase complex
3	0.0000	24	nucleolus
4	0.0000	24	microtubule organizing center
5	0.0000	24	MLL1 complex
6	0.0000	24	intermediate filament cytoskeleton

Rank	p-value	#in/all	Geneset
1	0.0000	7	BCL2
2	0.0000	7	BCL2L1
3	0.0000	7	BCL2L2
4	0.0000	7	BCL2L3
5	0.0000	7	BCL2L4
6	0.0000	7	BCL2L5
7	0.0000	7	BCL2L6

Rank	p-value	#in/all	Geneset
1	0.0000	14	SPRING_BCR_DN
2	0.0000	14	SPRING_MHC_DN
3	0.0000	14	SPRING_XL_transition
4	0.0000	14	SPRING_mhc_mutated
5	0.0000	14	WRIGHT_BCL2_UP_BCL6_DN
6	0.0000	14	SPRING_DVS_TIP
7	0.0000	14	SPRING_DVS_TIP_green_total
8	0.0000	14	SPRING_DVS_TIP_green_UP
9	0.0000	14	SPRING_DVS_TIP_weak_bri
10	0.0000	14	SPRING_DVS_TIP_blue_total

Rank	p-value	#in/all	Geneset
1	0.0000	16	CCNE1_Pcr1_P3K_UP
2	0.0000	16	CCNE1_Pcr1_P3K_DN
3	0.0000	16	CCNE1_Pcr1_P3K_DN
4	0.0000	16	CCNE1_Pcr1_P3K_DN
5	0.0000	16	CCNE1_Pcr1_P3K_DN
6	0.0000	16	CCNE1_Pcr1_P3K_DN
7	0.0000	16	CCNE1_Pcr1_P3K_DN
8	0.0000	16	CCNE1_Pcr1_P3K_DN
9	0.0000	16	CCNE1_Pcr1_P3K_DN
10	0.0000	16	CCNE1_Pcr1_P3K_DN

Rank	p-value	#in/all	Geneset
1	0.0000	16	CCNE1_Pcr1_P3K_UP
2	0.0000	16	CCNE1_Pcr1_P3K_DN
3	0.0000	16	CCNE1_Pcr1_P3K_DN
4	0.0000	16	CCNE1_Pcr1_P3K_DN
5	0.0000	16	CCNE1_Pcr1_P3K_DN
6	0.0000	16	CCNE1_Pcr1_P3K_DN
7	0.0000	16	CCNE1_Pcr1_P3K_DN
8	0.0000	16	CCNE1_Pcr1_P3K_DN
9	0.0000	16	CCNE1_Pcr1_P3K_DN
10	0.0000	16	CCNE1_Pcr1_P3K_DN

Rank	p-value	#in/all	Geneset
1	0.0000	16	CCNE1_Pcr1_P3K_UP

Rank	p-value	#in/all	Geneset
1	0.0000	12	SMN complex
2	0.0000	12	lysosomal membrane
3	0.0000	12	SMN-Sm protein complex
4	0.0000	12	ubiquitin ubiquitin ligase complex
5	0.0000	12	peroxisomal membrane
6	0.0000	12	U4/U5/US tri-snRNP complex
7	0.0000	12	pre-autophagosomal structure membrane
8	0.0000	12	spliceosomal complex
9	0.0000	12	intracellular nucleoplasm
10	0.0000	12	Calnexin

Rank	p-value	#in/all	Geneset
1	0.0000	24	peroxisome
2	0.0000	24	ubiquitin ligase complex
3	0.0000	24	nucleolus
4	0.0000	24	microtubule organizing center
5	0.0000	24	MLL1 complex
6	0.0000	24	intermediate filament cytoskeleton

Rank	p-value	#in/all	Geneset
1	0.0000	7	BCL2
2	0.0000	7	BCL2L1
3	0.0000	7	BCL2L2
4	0.0000	7	BCL2L3
5	0.0000	7	BCL2L4
6	0.0000	7	BCL2L5
7	0.0000	7	BCL2L6

Rank	p-value	#in/all	Geneset
1	0.0000	14	SPRING_BCR_DN
2	0.0000	14	SPRING_MHC_DN
3	0.0000	14	SPRING_XL_transition
4	0.0000	14	SPRING_mhc_mutated
5	0.0000	14	WRIGHT_BCL2_UP_BCL6_DN
6	0.0000	14	SPRING_DVS_TIP
7	0.0000	14	SPRING_DVS_TIP_green_total
8	0.0000	14	SPRING_DVS_TIP_green_UP
9	0.0000	14	SPRING_DVS_TIP_weak_bri
10	0.0000	14	SPRING_DVS_TIP_blue_total

Rank	p-value	#in/all	Geneset
1	0.0000	16	CCNE1_Pcr1_P3K_UP
2	0.0000	16	CCNE1_Pcr1_P3K_DN
3	0.0000	16	CCNE1_Pcr1_P3K_DN
4	0.0000	16	CCNE1_Pcr1_P3K_DN
5	0.0000	16	CCNE1_Pcr1_P3K_DN
6	0.0000	16	CCNE1_Pcr1_P3K_DN
7	0.0000	16	CCNE1_Pcr1_P3K_DN
8	0.0000	16	CCNE1_Pcr1_P3K_DN
9	0.0000	16	CCNE1_Pcr1_P3K_DN
10	0.0000	16	CCNE1_Pcr1_P3K_DN

Rank	p-value	#in/all	Geneset
1	0.0000	16	CCNE1_Pcr1_P3K_UP
2	0.0000	16	CCNE1_Pcr1_P3K_DN
3	0.0000	16	CCNE1_Pcr1_P3K_DN
4	0.0000	16	CCNE1_Pcr1_P3K_DN
5	0.0000	16	CCNE1_Pcr1_P3K_DN
6	0.0000	16	CCNE1_Pcr1_P3K_DN
7	0.0000	16	CCNE1_Pcr1_P3K_DN
8	0.0000	16	CCNE1_Pcr1_P3K_DN
9	0.0000	16	CCNE1_Pcr1_P3K_DN
10	0.0000	16	CCNE1_Pcr1_P3K_DN

Rank	p-value	#in/all	Geneset
1	0.0000	16	CCNE1_Pcr1_P3K_UP
2	0.0000	16	CCNE1_Pcr1_P3K_DN
3	0.0000	16	CCNE1_Pcr1_P3K_DN
4	0.0000	16	CCNE1_Pcr1_P3K_DN
5	0.0000	16	CCNE1_Pcr1_P3K_DN
6	0.0000	16	CCNE1_Pcr1_P3K_DN
7	0.0000	16	CCNE1_Pcr1_P3K_DN
8	0.0000	16	CCNE1_Pcr1_P3K_DN
9	0.0000	16	CCNE1_Pcr1_P3K_DN
10	0.0000	16	CCNE1_Pcr1_P3K_DN

Rank	p-value	#in/all	Geneset
1	0.0000	16	CCNE1_Pcr1_P3K_UP

Rank	p-value	#in/all	Geneset
1	0.0000	28	orthon targeting to Golgi
2	0.0000	28	intracellular transport
3	0.0000	28	retina homeostasis
4	0.0000	28	Notch signaling pathway
5	0.0000	28	secondary metabolic process
6	0.0000	28	spliceosomal complex assembly
7	0.0000	28	autophagic vacuole assembly
8	0.0000	28	protein ubiquitination
9	0.0000	28	transcription, DNA-templated
10	0.0000	28	epidermal growth factor receptor signaling pathway

Rank	p-value	#in/all	Geneset
1	0.0000	12	SMN complex
2	0.0000	12	lysosomal membrane
3	0.0000	12	SMN-Sm protein complex
4	0.0000	12	ubiquitin ubiquitin ligase complex
5	0.0000	12	peroxisomal membrane
6	0.0000	12	U4/U5/US tri-snRNP complex
7	0.0000	12	pre-autophagosomal structure membrane
8	0.0000	12	spliceosomal complex
9	0.0000	12	intracellular nucleoplasm
10	0.0000	12	Calnexin

Rank	p-value	#in/all	Geneset
1	0.0000	24	peroxisome
2	0.0000	24	ubiquitin ligase complex
3	0.0000	24	nucleolus
4	0.0000	24	microtubule organizing center
5	0.0000	24	MLL1 complex
6	0.0000	24	intermediate filament cytoskeleton

Rank	p-value	#in/all	Geneset
1	0.0000	7	BCL2
2	0.0000	7	BCL2L1
3	0.0000	7	BCL2L2
4	0.0000	7	BCL2L3
5	0.0000	7	BCL2L4
6	0.0000	7	BCL2L5
7	0.0000	7	BCL2L6

Rank	p-value	#in/all	Geneset
1	0.0000	14	SPRING_BCR_DN
2	0.0000	14	SPRING_MHC_DN
3	0.0000	14	SPRING_XL_transition
4	0.0000	14	SPRING_mhc_mutated
5	0.0000	14	WRIGHT_BCL2_UP_BCL6_DN
6	0.0000	14	SPRING_DVS_TIP
7	0.0000	14	SPRING_DVS_TIP_green_total
8	0.0000	14	SPRING_DVS_TIP_green_UP

Underexpression Spots

Spot Summary: n

metagenes = 4
genes = 28

<r> metagenes = 0.99
<r> genes = 0.13
beta: r2= 1.82 / log p= -Inf

samples with spot = 12 (13 %)
MSC1 : 2 (4.8 %)
MSC2 : 1 (4 %)
MSC3 : 9 (36 %)

Spot Genelist

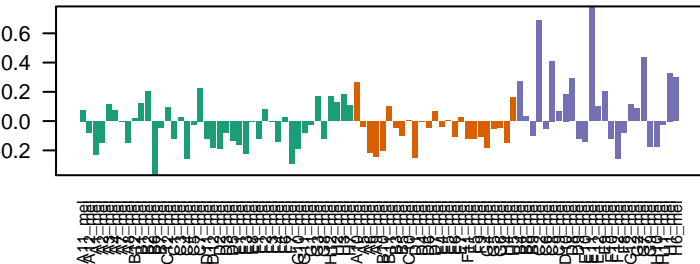
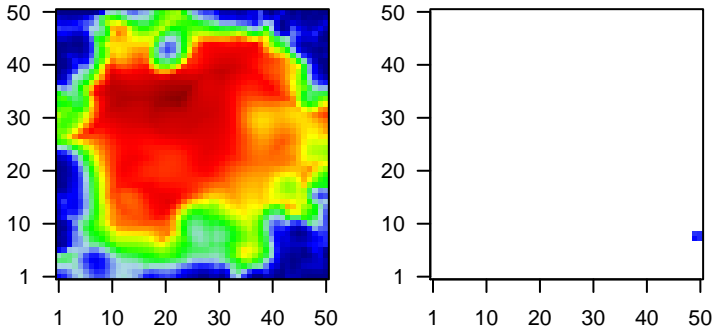
Rank	ID	max e	r	min e	Description
					Symbol
1	SOCS2	1.83	-0.58	0.29	SOCS2 suppressor of cytokine signaling 2 [Source:HGNC Symbol;Acc:HGNC:25069]
2	LIPT2	1.75	-0.15	0.39	LIPT2 lipoyl(octanoyl) transferase 2 (putative) [Source:HGNC Symbol;Acc:HGNC:25069]
3	GPR176	1.6	-0.15	0.48	GPR176 G protein-coupled receptor 176 [Source:HGNC Symbol;Acc:HGNC:25069]
4	RAB8B	1.49	-0.43	0.42	RAB8B RAB8B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:25069]
5	FBXO46	1.47	-0.33	0.26	FBXO46 F-box protein 46 [Source:HGNC Symbol;Acc:HGNC:25069]
6	RUNX1T1	1.45	-0.12	0.42	RUNX1T1 runt-related transcription factor 1; translocated to, 1 (cyclin D1) [Source:HGNC Symbol;Acc:HGNC:25069]
7	VPS8	1.45	-0.89	0.28	VPS8 vacuolar protein sorting 8 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:25069]
8	IRF2	1.37	-0.71	0.28	IRF2 interferon regulatory factor 2 [Source:HGNC Symbol;Acc:HGNC:25069]
9	CDC42EP3	1.36	-0.65	0.27	CDC42EP3 CDC42 effector protein (Rho GTPase binding) 3 [Source:HGNC Symbol;Acc:HGNC:25069]
10	ZNF621	1.36	-0.57	0.26	ZNF621 zinc finger protein 621 [Source:HGNC Symbol;Acc:HGNC:25069]
11	C17orf51	1.36	-0.29	0.33	C17orf51 chromosome 17 open reading frame 51 [Source:HGNC Symbol;Acc:HGNC:25069]
12	SENP7	1.34	-0.51	0.32	SENP7 SUMO1/sentrin specific peptidase 7 [Source:HGNC Symbol;Acc:HGNC:25069]
13	ACTN1	1.3	-0.99	0.37	ACTN1 actinin, alpha 1 [Source:HGNC Symbol;Acc:HGNC:163]
14	ZMYND11	1.29	-0.51	0.22	ZMYND11 zinc finger, MYND-type containing 11 [Source:HGNC Symbol;Acc:HGNC:25069]
15	GOLGA8B	1.21	-0.71	0.3	GOLGA8B golgin A8 family, member B [Source:HGNC Symbol;Acc:HGNC:25069]
16	TCF3	1.18	-0.66	0.25	TCF3 transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:1163]
17	PTPRA	1.11	-0.72	0.25	PTPRA protein tyrosine phosphatase, receptor type, A [Source:HGNC Symbol;Acc:HGNC:25069]
18	AKT1	1.04	-0.77	0.25	AKT1 v-akt murine thymoma viral oncogene homolog 1 [Source:HGNC Symbol;Acc:HGNC:25069]
19	DRAM2	1.04	-1.33	0.2	DRAM2 DNA-damage regulated autophagy modulator 2 [Source:HGNC Symbol;Acc:HGNC:25069]
20	BCL2L1	1.01	-0.73	0.27	BCL2L1 BCL2-like 1 [Source:HGNC Symbol;Acc:HGNC:992]

Geneset Overrepresentation

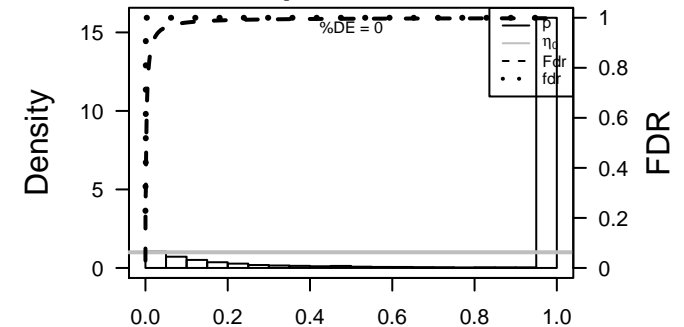
Rank	p-value	#in/all	Geneset
1	3e-06	3 / 16	BP negative regulation of autophagy
2	3e-05	3 / 32	GSE/ VALK_AML_WITH_FLT3_ITD
3	1e-04	5 / 263	miRN hsa-miR-92b
4	1e-04	5 / 268	miRN hsa-miR-363
5	1e-04	5 / 271	miRN hsa-miR-92a
6	1e-04	3 / 55	Cancer PanCan_JAK-ST_geneset_nanostring
7	2e-04	5 / 296	miRN hsa-miR-25
8	3e-04	5 / 321	miRN hsa-miR-32
9	3e-04	5 / 327	miRN hsa-miR-367
10	4e-04	2 / 15	BP negative regulation of release of cytochrome c from mitochondria
11	4e-04	6 / 522	BP apoptotic process
12	4e-04	3 / 75	GSE/ KANG_IMMORTALIZED_BY_TERT_UP
13	4e-04	3 / 79	miRN hsa-miR-569
14	5e-04	3 / 82	Cancer PanCan_TXmisReg_geneset_nanostring
15	5e-04	9 / 1326	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
16	7e-04	3 / 92	GSE/ KEGG_JAK_STAT_SIGNALING_PATHWAY
17	7e-04	2 / 21	GSE/ BIOCARTE_BAD_PATHWAY
18	7e-04	3 / 94	HM HALLMARK_ANDROGEN_RESPONSE
19	8e-04	5 / 394	BP cell proliferation
20	8e-04	2 / 22	BP negative regulation of JNK cascade
21	8e-04	2 / 22	GSE/ BIOCARTE_CHEMICAL_PATHWAY
22	8e-04	2 / 22	GSE/ BIOCARTE_RAS_PATHWAY
23	8e-04	2 / 22	GSE/ VALK_AML_CLUSTER_2
24	8e-04	2 / 23	GSE/ XU_HGF_TARGETS_INDUCED_BY_AKT1_48HR_DN
25	8e-04	2 / 23	GSE/ GOLUB_ALL_VS_AML_UP
26	9e-04	2 / 24	BP apoptotic mitochondrial changes
27	9e-04	2 / 24	BP germ cell development
28	1e-03	2 / 26	BP negative regulation of extrinsic apoptotic signaling pathway in absence of ligand
29	1e-03	2 / 26	GSE/ PID_CD40_PATHWAY
30	1e-03	2 / 26	GSE/ ONO_AML1_TARGETS_DN
31	1e-03	2 / 27	GSE/ ST_WNT_BETA_CATENIN_PATHWAY
32	1e-03	2 / 27	GSE/ SHIN_B_CELL_LYMPHOMA_CLUSTER_2
33	1e-03	2 / 28	GSE/ PID_IL2_PI3K_PATHWAY
34	1e-03	2 / 28	GSE/ PID_RETINOIC_ACID_PATHWAY
35	1e-03	2 / 28	GSE/ REACTOME_INTRINSIC_PATHWAY_FOR_APOPTOSIS
36	1e-03	5 / 456	MF protein binding transcription factor activity
37	1e-03	15 / 3812	Color TssD1_Colon
38	2e-03	2 / 32	BP fertilization
39	2e-03	2 / 32	GSE/ BIOCARTE_IL2RB_PATHWAY
40	2e-03	2 / 34	GSE/ PID_PI3KCLI_AKT_PATHWAY

Overview Map

Spot



p-values



Agging value

Rank	p-value	#in/all
1	0.0000	113
2	0.0000	113
3	0.0000	113
4	0.0000	113
5	0.0000	113
6	0.0000	113
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44	0.0000	113
45	0.0000	113
46	0.0000	113
47	0.0000	113
48	0.0000	113
49	0.0000	113
50	0.0000	113

Geneset

Geneset	#in/all
adding_genes_meth_DOWN	113
HORVATH_age_genes_meth_UP	113
TESCHENDORFF_age_hypermethylated	113

Rank

Rank	p-value	#in/all
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3	0.0000	113
4	0.0000	113
5	0.0000	113
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44	0.0000	113
45	0.0000	113
46	0.0000	113
47	0.0000	113
48	0.0000	113
49	0.0000	113
50	0.0000	113

Geneset

Geneset	#in/all
negative regulation of release of cytochrome c from mitochondria	113
apoptotic process	113
cell proliferation	113
negative regulation of JNK cascade	113
apoptotic mitochondrial changes	113
germ cell development	113
Negative regulation of extrinsic apoptotic signaling pathway in absence of ligand	113
cell death	113
intrinsic apoptotic signaling pathway	113
cellular response to insulin stimulus	113
negative regulation of protein kinase activity	113
positive regulation of sequence-specific DNA binding transcription factor activity	113
cellular response to peptide	113
epithelial cell morphogenesis	113
maternal placenta development	113
positive regulation of glycogen biosynthetic process	113
regulation of G1S transition of mitotic cell cycle	113
response to food	113

Rank

Rank	p-value	#in/all
1	0.0000	113
2	0.0000	113
3	0.0000	113
4	0.0000	113
5	0.0000	113
6	0.0000	113
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11	0.0000	113
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43	0.0000	113
44	0.0000	113
45	0.0000	113
46	0.0000	113
47	0.0000	113
48	0.0000	113
49	0.0000	113
50	0.0000	113

Geneset

Geneset	#in/all
negative regulation of release of cytochrome c from mitochondria	113
apoptotic process	113
cell proliferation	113
negative regulation of JNK cascade	113
apoptotic mitochondrial changes	113
germ cell development	113
Negative regulation of extrinsic apoptotic signaling pathway in absence of ligand	113
cell death	113
intrinsic apoptotic signaling pathway	113
cellular response to insulin stimulus	113
negative regulation of protein kinase activity	113
positive regulation of sequence-specific DNA binding transcription factor activity	113
cellular response to peptide	113
epithelial cell morphogenesis	113
maternal placenta development	113
positive regulation of glycogen biosynthetic process	113
regulation of G1S transition of mitotic cell cycle	113
response to food	113

Brain value

Rank	p-value	#in/all
1	0.0004	274
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7	0.0004	274
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10	0.0004	274
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44	0.0004	274
45	0.0004	274
46	0.0004	274
47	0.0004	274
48	0.0004	274
49	0.0004	274
50	0.0004	274

Geneset

Geneset	#in/all
Overlap_tetal_midbrain_K9K27me3	274
Overlap_tetal_midbrain_RepR_CWk	274
Overlap_tetal_midbrain_RepR_C	274
Overlap_tetal_midbrain_HetRpts	274
Fetal_FOies	274
Mid_Frontal_Lobe_Het	274
Fetal_Enkfs	274
Fetal_Enh	274
Mid_Frontal_Lobe_Tx	274
Overlap_tetal_midbrain_Quies	274
Overlap_tetal_midbrain_TssP	274
Fetal_Enp	274
Overlap_tetal_midbrain_EnHP	274
Mid_Frontal_Lobe_LXTrans	274
Overlap_tetal_midbrain_EnH	274
Fetal_Issa	274
Overlap_tetal_midbrain_ZNF	274
Fetal_Het	274

Rank

Rank	p-value	#in/all
1	0.0004	274
2	0.0004	274
3	0.0004	274
4	0.0004	274
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Cancer

Rank	p-value	#in/all
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49	0.0000	238
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Geneset

Geneset	#in/all
ST_geneset_nanosttring	238
PanCan_L1XmsiReg_geneset_nanosttring	238
SPANG_BCA5_index	238
PanCan_BCA5_geneset_nanosttring	238
PanCan_CC_Abop_geneset_nanosttring	238
PanCan_BCA5_geneset_nanosttring	238
LIUCan_OSTAT1_CANCER_DN	238
PanCan_Driver_Gene_geneset_nanosttring	238
PanCan_L1XmsiReg_geneset_nanosttring	238
Temacke_Colonc_Inflammation	238
MODERN_UNDIFFERENTIATIONATURE	238
SOTIQUO_BREAST_CANCER_GRADE_1_VS_3_DN	238
LIUCan_BREAST_CANCER	238
LIUCan_COMMON_CANCER_GENES	238
LIUCan_PROSTATE_CANCER_UP	238
WANG_ER_DN	238

Rank

Rank	p-value	#in/all
1	0.0000	238
2	0.0000	238
3	0.0000	238
4	0.0000	238
5	0.0000	238
6	0.0000	238
7	0.0000	23

Underexpression Spots

Spot Summary: o

metagenes = 6
genes = 84

<r> metagenes = 0.98

<r> genes = 0.11

beta: r2= 1.65 / log p= -Inf

samples with spot = 12 (13 %)

MSC1 : 5 (11.9 %)

MSC2 : 4 (16 %)

MSC3 : 3 (12 %)

Spot Genelist

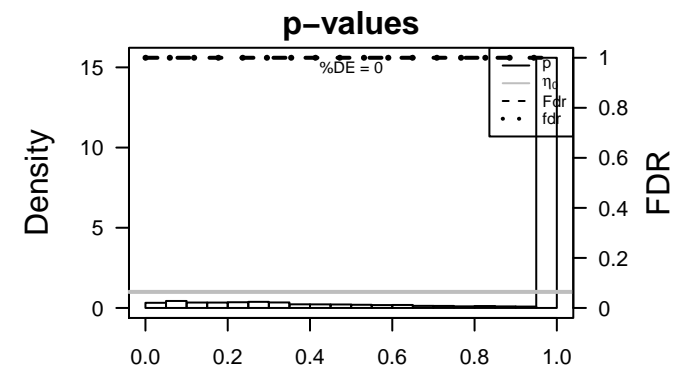
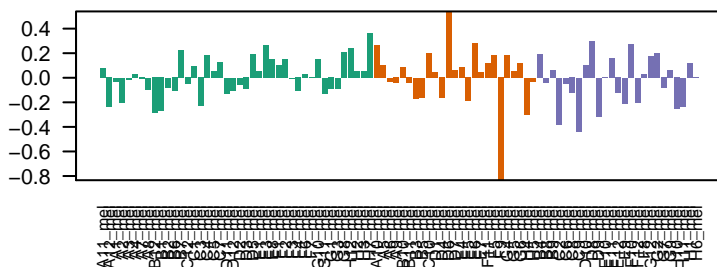
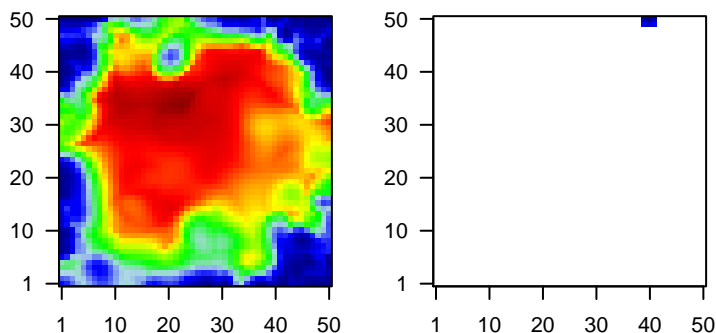
Rank	ID	max e	r	min e	Description
					Symbol
1	EMC1	1.82	-0.59	0.33	EMC1 ER membrane protein complex subunit 1 [Source:HGNC Syrr
2	SELL	1.69	-0.16	0.33	SELL selectin L [Source:HGNC Symbol;Acc:HGNC:10720]
3	LIPT1	1.57	-0.38	0.29	LIPT1 lipoyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:29569]
4	FUCA1	1.57	-0.24	0.34	FUCA1 fucosidase, alpha-L- 1, tissue [Source:HGNC Symbol;Acc:H
5	GPX8	1.56	-0.72	0.32	GPX8 glutathione peroxidase 8 (putative) [Source:HGNC Symbol;Ac
6	FAM114A2	1.56	-0.67	0.26	FAM114A2 family with sequence similarity 114, member A2 [Source:HGNC
7	PLA2G4A	1.54	-0.31	0.29	PLA2G4A phospholipase A2, group IVA (cytosolic, calcium-dependent)
8	PEX13	1.54	-0.59	0.25	PEX13 peroxisomal biogenesis factor 13 [Source:HGNC Symbol;Acc
9	INSIG2	1.46	-0.73	0.36	INSIG2 insulin induced gene 2 [Source:HGNC Symbol;Acc:HGNC:20
10	ETFDH	1.46	-0.74	0.32	ETFDH electron-transferring-flavoprotein dehydrogenase [Source:HK
11	IFITM2	1.41	-0.89	0.28	IFITM2 interferon induced transmembrane protein 2 [Source:HGNC S
12	MVK	1.37	-0.38	0.26	MVK mevalonate kinase [Source:HGNC Symbol;Acc:HGNC:7530]
13	TRMT61B	1.36	-0.96	0.32	TRMT61B tRNA methyltransferase 61B [Source:HGNC Symbol;Acc:HGI
14	JMJD4	1.33	-0.48	0.24	JMJD4 jumonji domain containing 4 [Source:HGNC Symbol;Acc:HGNC
15	MED20	1.33	-0.62	0.29	MED20 mediator complex subunit 20 [Source:HGNC Symbol;Acc:HG
16	GOLGA2	1.32	-0.82	0.37	GOLGA2 golgin A2 [Source:HGNC Symbol;Acc:HGNC:4425]
17	BRE	1.31	-0.94	0.37	BRE brain and reproductive organ-expressed (TNFRSF1A modul
18	VPS37A	1.3	-0.54	0.38	VPS37A vacuolar protein sorting 37 homolog A (S. cerevisiae) [Source
19	C1GALT1C1	1.29	-0.93	0.38	C1GALT1C1 C1GALT1-specific chaperone 1 [Source:HGNC Symbol;Acc:cl
20	ZFP90	1.27	-0.47	0.31	ZFP90 ZFP90 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	4e-09	77 / 9482	Colon TssA_Colon
2	3e-08	64 / 6929	Lympl HOPE_Txn_elongation
3	5e-08	67 / 7592	Lympl HOPE_Active_promoter
4	8e-07	73 / 9330	Brain Overlap_fetal_midbrain_ReprPC
5	2e-06	69 / 8580	Colon TxWk_Colon
6	2e-06	55 / 5940	Brain Overlap_fetal_midbrain_HetRpts
7	7e-06	70 / 9027	Colon Tx_Colon
8	6e-05	68 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
9	1e-04	46 / 5184	Lympl HOPE_Txn_transition
10	2e-04	64 / 8415	Colon Quies3_Colon
11	3e-04	57 / 7209	Lympl HOPE_Weak_promoter
12	4e-04	47 / 5538	Lympl HOPE_Weak_txn
13	4e-04	21 / 1701	TF HEBENSTREIT_high expression TF
14	6e-04	3 / 30	BP negative regulation of viral genome replication
15	1e-03	16 / 1218	Lympl SPANG_BCR_UP
16	1e-03	8 / 379	GSE/ LIM_MAMMARY_STEM_CELL_DN
17	1e-03	13 / 890	GSE/ ACEVEDO_LIVER_CANCER_UP
18	2e-03	2 / 12	BP negative regulation of DNA damage response, signal transduction by p53
19	2e-03	7 / 315	Glio WILLSCHEER_GBM_Verhaak-PNwt & CL_up
20	2e-03	8 / 408	GSE/ ZHANG_BREAST_CANCER_PROGENITORS_UP
21	2e-03	4 / 98	GSE/ BOYALT_LIVER_CANCER_SUBCLASS_G1_UP
22	2e-03	4 / 100	GSE/ DING_LUNG_CANCER_EXPRESSION_BY_COPY_NUMBER
23	3e-03	8 / 422	BP viral process
24	3e-03	2 / 14	GSE/ KEGG_OTHER_GLYCAN_DEGRADATION
25	3e-03	2 / 14	GSE/ KEGG_TERPENOID_BACKBONE_BIOSYNTHESIS
26	3e-03	45 / 5693	Lympl HOPE_Weak_enhancer
27	3e-03	59 / 8205	CC cytoplasm
28	4e-03	3 / 57	CC proteasome complex
29	4e-03	16 / 1383	TF ICGC_Six5_targets
30	5e-03	16 / 1400	TF ICGC_Myc_targets
31	6e-03	69 / 10290	Colon TssWk_Colon
32	6e-03	2 / 21	BP adipose tissue development
33	7e-03	2 / 22	GSE/ PETRETTO_HEART_MASS_QTL_CIS_DN
34	7e-03	2 / 23	BP glycosaminoglycan catabolic process
35	8e-03	2 / 24	GSE/ REACTOME_ENDOSOMAL_SORTING_COMPLEX_REQUIRED_FOR_TF
36	8e-03	4 / 140	miRN hsa-miR-409-3p
37	9e-03	2 / 25	MF cytochrome-c oxidase activity
38	1e-02	5 / 230	GSE/ ROZANOV_MMP14_TARGETS_UP
39	1e-02	2 / 27	GSE/ BEIER_GLIOMA_STEM_CELL_UP
40	1e-02	3 / 81	BP positive regulation of sequence-specific DNA binding transcription factor ac

Overview Map

Spot



Underexpression Spots

Spot Summary: p

metagenes = 13
genes = 148

<r> metagenes = 0.95
<r> genes = 0.11
beta: r2= 1.79 / log p= -Inf

samples with spot = 13 (14.1 %)
MSC1 : 2 (4.8 %)
MSC2 : 5 (20 %)
MSC3 : 6 (24 %)

Spot Genelist

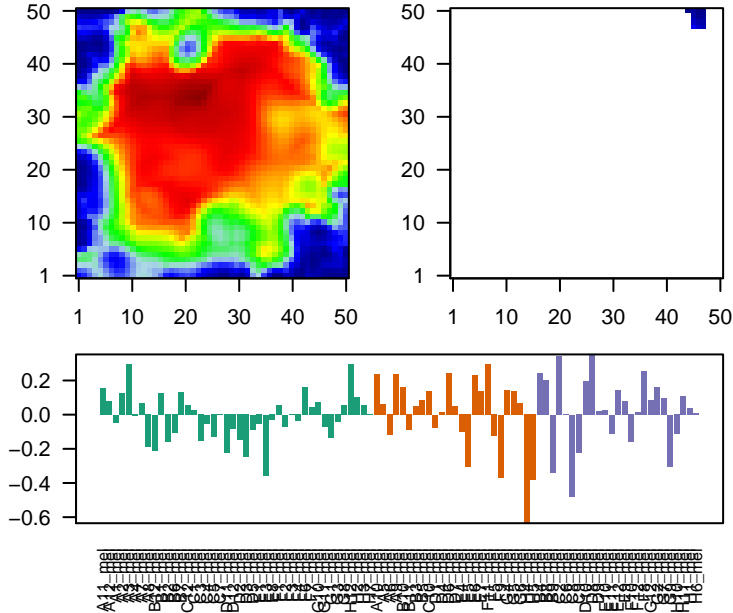
Rank	ID	max e	r	min e	Description
					Symbol
1	GDF15	1.77	-1.15	0.38	GDF15 growth differentiation factor 15 [Source:HGNC Symbol;Acc:HGNC:10045]
2	AP4M1	1.75	-0.28	0.24	AP4M1 adaptor-related protein complex 4, mu 1 subunit [Source:HGNC Symbol;Acc:HGNC:10045]
3	PPCDC	1.72	-0.42	0.2	PPCDC phosphopantothencysteine decarboxylase [Source:HGNC Symbol;Acc:HGNC:10045]
4	BBS4	1.71	-0.53	0.31	BBS4 Bardet-Biedl syndrome 4 [Source:HGNC Symbol;Acc:HGNC:10045]
5	PISD	1.67	-0.46	0.24	PISD phosphatidylserine decarboxylase [Source:HGNC Symbol;Acc:HGNC:10045]
6	MXI1	1.66	-0.86	0.23	MXI1 MAX interactor 1, dimerization protein [Source:HGNC Symbol;Acc:HGNC:10045]
7	TRIB3	1.65	-0.81	0.34	TRIB3 tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:10045]
8	RNF170	1.65	-0.21	0.3	RNF170 ring finger protein 170 [Source:HGNC Symbol;Acc:HGNC:25512]
9	PTPRR	1.65	-0.28	0.31	PTPRR protein tyrosine phosphatase, receptor type, R [Source:HGNC Symbol;Acc:HGNC:10045]
10	C2orf74	1.63	-0.75	0.24	C2orf74 chromosome 2 open reading frame 74 [Source:HGNC Symbol;Acc:HGNC:10045]
11	ORMDL3	1.56	-0.27	0.34	ORMDL3ORMDL sphingolipid biosynthesis regulator 3 [Source:HGNC Symbol;Acc:HGNC:10045]
12	PKN1	1.55	-0.45	0.28	PKN1 protein kinase N1 [Source:HGNC Symbol;Acc:HGNC:9405]
13	ELOVL6	1.55	-0.58	0.26	ELOVL6 ELOVL fatty acid elongase 6 [Source:HGNC Symbol;Acc:HGNC:10045]
14	MED29	1.51	-0.56	0.37	MED29 mediator complex subunit 29 [Source:HGNC Symbol;Acc:HGNC:10045]
15	GATSL3	1.49	-0.08	0.28	GATSL3 GATS protein-like 3 [Source:HGNC Symbol;Acc:HGNC:3442]
16	COG5	1.49	-0.47	0.24	COG5 component of oligomeric golgi complex 5 [Source:HGNC Symbol;Acc:HGNC:10045]
17	MARCH9	1.49	-0.56	0.26	MARCH9membrane-associated ring finger (C3HC4) 9 [Source:HGNC Symbol;Acc:HGNC:10045]
18	TSEN2	1.47	-0.64	0.17	TSEN2 TSEN2 tRNA splicing endonuclease subunit [Source:HGNC Symbol;Acc:HGNC:10045]
19	ARHGEF2	1.47	-0.64	0.32	ARHGEF2Rho/Rac guanine nucleotide exchange factor (GEF) 2 [Source:HGNC Symbol;Acc:HGNC:10045]
20	POC5	1.43	-0.71	0.27	POC5 POC5 centriolar protein [Source:HGNC Symbol;Acc:HGNC:10045]

Geneset Overrepresentation

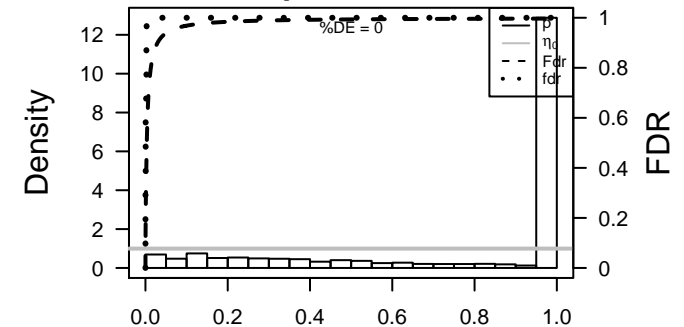
Rank	p-value	#in/all	Geneset
1	1e-13	133 / 9482	Colon TssA_Colon
2	7e-09	124 / 9330	Brain Overlap_fetal_midbrain_ReprPC
3	9e-08	14 / 235	GSE/ BLUM_RESPONSE_TO_SALIRASIB_UP
4	8e-07	117 / 9027	Colon Tx_Colon
5	9e-07	80 / 5184	Lymp/ HOPP_Txn_transition
6	5e-06	102 / 7592	Lymp/ HOPP_Active_promoter
7	1e-05	10 / 176	GSE/ TIEN_INTESTINE_PROBIOTICS_24HR_DN
8	1e-05	8 / 108	GSE/ KAN_RESPONSE_TO_ARSENIC_TRIOXIDE
9	2e-05	12 / 273	GSE/ AGUIRRE_PANCREATIC_CANCER_COPY_NUMBER_UP
10	2e-05	113 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
11	3e-05	109 / 8580	Colon TxWk_Colon
12	9e-05	28 / 1326	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
13	1e-04	8 / 147	BP tRNA metabolic process
14	1e-04	7 / 111	GSE/ MISSIAGLIA_REGULATED_BY_METHYLATION_UP
15	1e-04	4 / 26	GSE/ KRIGE_AMINO_ACID_DEPRIVATION
16	1e-04	91 / 6929	Lymp HOPP_Txn_elongation
17	3e-04	7 / 126	GSE/ PENG_LEUCINE_DEPRIVATION_UP
18	3e-04	102 / 8205	CC cytoplasm
19	3e-04	3 / 14	CC exosome (RNase complex)
20	4e-04	4 / 35	MF aminoacyl-tRNA ligase activity
21	4e-04	7 / 135	GSE/ KAAB_FAILED_HEART_ATRIUM_DN
22	4e-04	92 / 7203	Colon TssF_Colon
23	5e-04	4 / 37	GSE/ KAAB_FAILED_HEART_VENTRICLE_DN
24	5e-04	3 / 16	GSE/ TOMIDA_METASTASIS_DN
25	5e-04	28 / 1468	CC mitochondrion
26	7e-04	3 / 18	GSE/ SARTIPY_BLUNTED_BY_INSULIN_RESISTANCE_DN
27	7e-04	4 / 41	GSE/ KEGG_AMINOACYL_TRNA_BIOSYNTHESIS
28	8e-04	4 / 42	GSE/ REACTOME_TRNA_AMINOACYLATION
29	8e-04	14 / 532	GSE/ PARENT_MTOR_SIGNALING_UP
30	9e-04	4 / 44	BP tRNA aminoacylation for protein translation
31	9e-04	18 / 800	GSE/ ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACENT_TISSUE_UP
32	1e-03	9 / 260	GSE/ ENK_UV_RESPONSE_EPIDERMIS_UP
33	1e-03	15 / 619	GSE/ KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DENSITY_CORR_UP
34	1e-03	0 / 12	Canc/ LIU_PROSTATE_CANCER_UP
35	1e-03	15 / 620	GSE/ MILL_PSEUDOPODIA_HAPTOTAXIS_DN
36	1e-03	19 / 890	GSE/ ACEVEDO_LIVER_CANCER_UP
37	1e-03	4 / 49	GSE/ PRAMOONJAGO_SOX4_TARGETS_UP
38	1e-03	2 / 6	GSE/ ISHIDA_TARGETS_OF_SYT_S5X_FUSIONS
39	1e-03	30 / 1730	BP small molecule metabolic process
40	2e-03	11 / 385	GSE/ REN_ALVEOLAR_RHABDOMYOSARCOMA_DN

Overview Map

Spot



p-values



Rank	p-value	#in/all
1	0.000000	131
2	0.000000	131
3	0.000000	131
4	0.000000	131
5	0.000000	131
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100	0.000000	131

Geneset	#in/all
downregulating_genes_meth_UP	131
HORVAILH_aging_genes_meth_UP	131
TESCHENDORFF_age_hypermethylated	131

Rank	p-value	#in/all
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Geneset	#in/all
EPITHE_CANCER_UP	296
SPANG_BC16-index2	296
SPANG_ES-index2	296
WANG_HK_TIP	296
WANG_HK_TIP2	296
GENIES_modul1	296
GENIES_modul6	296
GENIES_modul14	296
KUIPER_MM_high_risk_geneset_nanostring	296
KUIPER_MM_good_survival	296
PanCan_Driver_Gene_geneset_nanostring	296
PanCan_HK_geneset_nanostring	296
PanCan_LFP_B_geneset_nanostring	296
KUIPER_MM_repair_geneset_nanostring	296
PanCan_MM_pop_survival	296
L1_COMMON_CANCER_GENES	296
STRONGS_INDENTIFIED_CANCER	296
LAUGHRESS_MM_high_risk	296
PanCan_MM_pop_geneset_nanostring	296
PanCan_MM_MARK_geneset_nanostring	296

Rank	p-value	#in/all
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Geneset	#in/all
L15_Colon	193
L15V_Colon	193
L15F_Colon	193
Quies_Colon	193
Enr_Colon	193
EnrW_Colon	193
Test2_Colon	193
Maria_CRC_C5	193
Maria_CRC	193
Uthman-MSI-enriched-in-7	193
Pantrack_CRC_TCGA_corr_c_normal_UP	193
Pantrack_CRC_TCGA_corr_c_normal_DN	193
Vilar_non-hypermethylated-in-CRC	193
L1XenG1_Colon-expr_kmeans_N_CIMP.H_DN	193
Lemcke_TCGA_meth_kmeans_B_Cluster4_DN	193
Maria_CRC-cluster-d	193

Rank	p-value	#in/all
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29	0.000000	10
30	0.000000	10

Underexpression Spots

Spot Summary: q

metagenes = 9
genes = 43

<r> metagenes = 0.96
<r> genes = 0.11
beta: r2= 1.42 / log p= -Inf

samples with spot = 16 (17.4 %)
MSC1 : 3 (7.1 %)
MSC2 : 8 (32 %)
MSC3 : 5 (20 %)

Spot Genelist

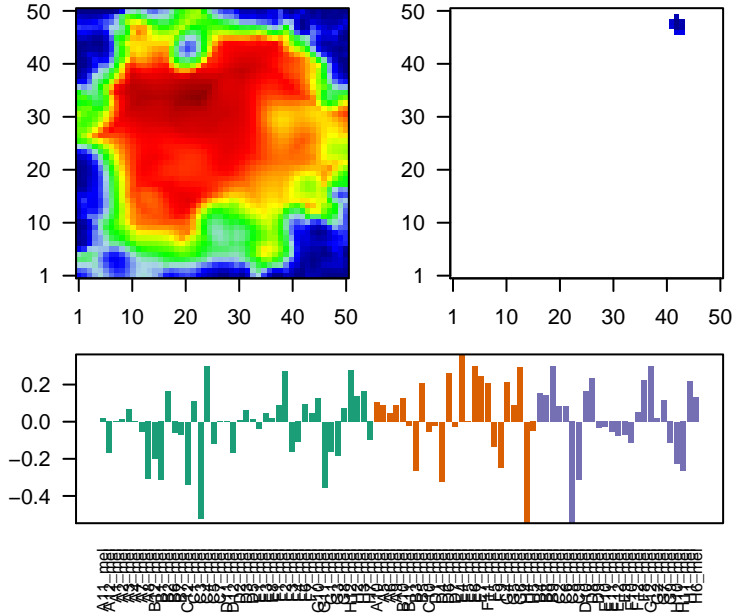
Rank	ID	max e	r	min e	Description
1	EARS2	1.77	-0.56	0.34	EARS2 glutamyl-tRNA synthetase 2, mitochondrial [Source:HGNC S
2	SEC24D	1.59	-0.54	0.31	SEC24D SEC24 family member D [Source:HGNC Symbol;Acc:HGNC:
3	TMEM254	1.55	-0.6	0.34	TMEM254transmembrane protein 254 [Source:HGNC Symbol;Acc:HGNC
4	PEX3	1.48	-0.66	0.34	PEX3 peroxisomal biogenesis factor 3 [Source:HGNC Symbol;Acc:HGNC
5	TMED9	1.47	-0.8	0.28	TMED9 transmembrane emp24 protein transport domain containing 9
6	POMT1	1.44	-0.58	0.22	POMT1 protein-O-mannosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC
7	GEMIN7	1.44	-0.94	0.27	GEMIN7 gem (nuclear organelle) associated protein 7 [Source:HGNC
8	SPA17	1.43	-0.31	0.34	SPA17 sperm autoantigenic protein 17 [Source:HGNC Symbol;Acc:HGNC
9	SNAPC2	1.4	-0.41	0.32	SNAPC2small nuclear RNA activating complex, polypeptide 2, 45kDa
10	GEMIN5	1.39	-0.64	0.28	GEMIN5 gem (nuclear organelle) associated protein 5 [Source:HGNC
11	SC5D	1.28	-1.43	0.35	SC5D sterol-C5-desaturase [Source:HGNC Symbol;Acc:HGNC:10:
12	TMEM68	1.27	-0.78	0.31	TMEM68transmembrane protein 68 [Source:HGNC Symbol;Acc:HGNC
13	ABHD10	1.21	-0.94	0.29	ABHD10 abhydrolase domain containing 10 [Source:HGNC Symbol;Acc:HGNC
14	SETDB2	1.2	-0.57	0.26	SETDB2 SET domain, bifurcated 2 [Source:HGNC Symbol;Acc:HGNC
15	SDE2	1.2	-0.45	0.29	SDE2 SDE2 telomere maintenance homolog (S. pombe) [Source:HGNC
16	LAS1L	1.19	-0.74	0.29	LAS1L LAS1-like (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:
17	BCAP29	1.18	-1.78	0.4	BCAP29 B-cell receptor-associated protein 29 [Source:HGNC Symbo
18	PTCD1	1.11	-0.26	0.26	PTCD1 pentatricopeptide repeat domain 1 [Source:HGNC Symbol;Acc:HGNC
19	PEX6	1.09	-0.16	0.28	PEX6 peroxisomal biogenesis factor 6 [Source:HGNC Symbol;Acc:HGNC
20	SWI5	1.07	-1.04	0.26	SWI5 SWI5 recombination repair homolog (yeast) [Source:HGNC S

Geneset Overrepresentation

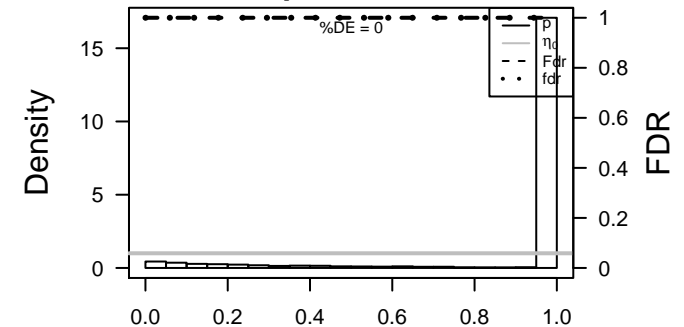
Rank	p-value	#in/all	Geneset
1	6e-06	40 / 9330	Brain Overlap_fetal_midbrain_ReprPC
2	6e-05	39 / 9482	Colon TssA_Colon
3	2e-04	3 / 36	MF tRNA binding
4	3e-04	37 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
5	4e-04	9 / 805	GSE/ WAKABAYASHI_ADIPOGENESIS_PPARG_RXRA_BOUND_8D
6	4e-04	2 / 11	CC Gemini of coiled bodies
7	5e-04	33 / 7592	Lymph HOPP_Active_promoter
8	5e-04	2 / 12	CC SMN complex
9	6e-04	25 / 4879	TF ICGC_Pmlsc71910_targets
10	6e-04	26 / 5200	TF ICGC_Mta3_targets
11	9e-04	24 / 4689	TF ICGC_Taf1_targets
12	9e-04	23 / 4385	TF ICGC_Atf2_targets
13	9e-04	23 / 4414	TF ICGC_Bclaf101388_targets
14	1e-03	2 / 17	CC SMN-Sm protein complex
15	1e-03	2 / 18	BP peroxisome organization
16	1e-03	5 / 288	GSE/ WEST_ADRENOCORTICAL_TUMOR_UP
17	1e-03	31 / 7209	Lymph HOPP_Weak_promoter
18	1e-03	3 / 78	GSE/ ROVERSI_GLIOMA_COPY_NUMBER_UP
19	2e-03	10 / 1171	TF KIM_MYC targets
20	2e-03	24 / 4909	TF ICGC_Stat5_targets
21	2e-03	30 / 6929	Lymph HOPP_Txn_elongation
22	2e-03	23 / 4617	TF ICGC_Tcf12_targets
23	2e-03	2 / 23	BP ncRNA metabolic process
24	2e-03	23 / 4682	TF ICGC_Pol24_targets
25	2e-03	8 / 831	Brain Fetal_HetRpts
26	2e-03	3 / 92	GSE/ BRUJINS_UVC_RESPONSE_MIDDLE
27	2e-03	4 / 196	GSE/ AMUNDSON_RESPONSE_TO_ARSENITE
28	2e-03	3 / 93	GSE/ HELLER_SILENCED_BY_METHYLATION_DN
29	3e-03	2 / 26	GSE/ GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_MAGENT
30	3e-03	3 / 97	GSE/ ACOSTA_PROLIFERATION_INDEPENDENT_MYC_TARGETS_DN
31	3e-03	6 / 494	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_DN
32	3e-03	25 / 5408	TF ICGC_Pou2_targets
33	3e-03	6 / 502	GSE/ KIM_ALL_DISORDERS_CALB1_CORR_UP
34	3e-03	2 / 29	BP spliceosomal snRNP assembly
35	3e-03	35 / 9027	Color Tx_Colon
36	3e-03	6 / 510	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP
37	4e-03	2 / 31	miRN hsa-miR-17*
38	4e-03	2 / 31	GSE/ JIANG_AGING_CEREBRAL_CORTEX_UP
39	4e-03	3 / 107	GSE/ BYSTRYKH_HEMATOPOIESIS_STEM_CELL_QTL_CIS
40	4e-03	25 / 5495	TF ICGC_Yy1_targets

Overview Map

Spot



p-values



Ageing

Rank	p-value	#in/all
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Geneset

Geneset	#in/all
downregulated genes meth DOWN	131
HORVAILT_age_genes meth UP	131
TESCHENDORFF_age_hypermethylated	131

Cancer

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Geneset

Geneset	#in/all
SSY_MM_high_risk	131
UPROSTATE_CANCER_DN	131
SOFT_TISSUE_BREAST_CANCER_GRADE_1_VS_3_UP	131
SOFT_TISSUE_BREAST_CANCER_GRADE_1_VS_3_DN	131
embryo_Normal_vs_Adenoma	131
embryo_CANCER_index	131
embryo_META_SIGNATURE	131
embryo_UNDIFFERENTIATED_CANCER	131
L10_BREAST_CANCER	131
L10_COMMON_CANCER_GENES	131
L10_PROSTATE_CANCER_UP	131
WANG_ER_DN	131
WOLFER_overlap_genes	131
BEN_FORATH_DN	131
GENIES_modul2	131
GENIES_modul2	131

Colon Cancer

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Geneset

Geneset	#in/all
L10_Colon	131
L10V_Colon	131
tsr_Colon	131
Pentrack_CRC_TCGA_corr_U_msi-h_UP	131
Quies3_Colon	131
Ang_CRC_UMPH-vs-L_hyper	131
Ang_CRC_Hypermethylated	131
Pentrack_CRC_TCGA_group.over_B_msi-h_UP	131
embryo_TCGA_meth_kmeans_L_CIMP_H_DN	131
Emb_Colon	131
EmbWk_Colon	131
EmbWk_Colon_TCGA_group.over_C_normal_DN	131
L10Enh2_Colon	131
Pentrack_CRC_TCGA_corr_C_normal_UP	131
embryo_GA-expr_kmeans_N_CIMP_H_DN	131
Emb_Colon	131
ZNF_Colon	131

Gene Set 4

Rank	p-value	#in/all
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Underexpression Spots

Spot Summary: r

metagenes = 5
genes = 60

<r> metagenes = 0.97
<r> genes = 0.11
beta: r2= 1.79 / log p= -Inf

samples with spot = 17 (18.5 %)
MSC1 : 6 (14.3 %)
MSC2 : 7 (28 %)
MSC3 : 4 (16 %)

Spot Genelist

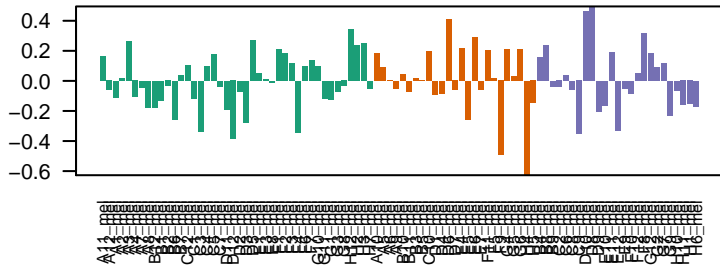
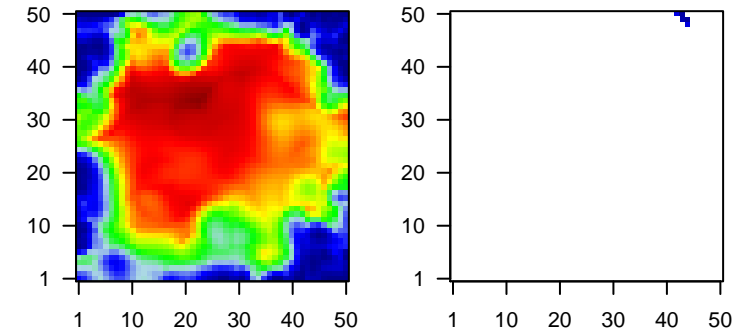
Rank	ID	max e	r	min e	Description
1	MYO1E	1.87	-0.47	0.35	MYO1E myosin IE [Source:HGNC Symbol;Acc:HGNC:7599]
2	GABRA5	1.67	-0.18	0.24	GABRA5 gamma-aminobutyric acid (GABA) A receptor, alpha 5 [Source:HGNC Symbol;Acc:HGNC:2908]
3	GULP1	1.65	-0.53	0.26	GULP1 GULP, engulfment adaptor PTB domain containing 1 [Source:HGNC Symbol;Acc:HGNC:2908]
4	PGBD2	1.63	-0.39	0.31	PGBD2 piggyBac transposable element derived 2 [Source:HGNC Symbol;Acc:HGNC:2908]
5	STK11IP	1.61	-0.17	0.35	STK11IP serine/threonine kinase 11 interacting protein [Source:HGNC Symbol;Acc:HGNC:2908]
6	SIL1	1.56	-0.68	0.35	SIL1 SIL1 nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:2908]
7	PDLIM2	1.55	-0.27	0.24	PDLIM2 PDZ and LIM domain 2 (mystique) [Source:HGNC Symbol;Acc:HGNC:2908]
8	ATG13	1.55	-0.73	0.39	ATG13 autophagy related 13 [Source:HGNC Symbol;Acc:HGNC:2908]
9	PJA1	1.53	-0.56	0.36	PJA1 praja ring finger 1, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:HGNC:2908]
10	DNAJB9	1.51	-0.61	0.28	DNAJB9 DnaJ (Hsp40) homolog, subfamily B, member 9 [Source:HGNC Symbol;Acc:HGNC:2908]
11	PARP1	1.51	-0.34	0.23	PARP1 poly (ADP-ribose) polymerase family, member 11 [Source:HGNC Symbol;Acc:HGNC:2908]
12	CFH	1.5	-0.41	0.31	CFH complement factor H [Source:HGNC Symbol;Acc:HGNC:2908]
13	DDX19B	1.48	-0.89	0.3	DDX19B DEAD (Asp-Glu-Ala-Asp) box polypeptide 19B [Source:HGNC Symbol;Acc:HGNC:2908]
14	CCDC93	1.46	-0.78	0.33	CCDC93 coiled-coil domain containing 93 [Source:HGNC Symbol;Acc:HGNC:2908]
15	GSS	1.46	-0.89	0.33	GSS glutathione synthetase [Source:HGNC Symbol;Acc:HGNC:2908]
16	FLYWCH1	1.44	-0.29	0.31	FLYWCH1 FLYWCH-type zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:2908]
17	PSEN1	1.42	-0.9	0.34	PSEN1 presenilin 1 [Source:HGNC Symbol;Acc:HGNC:2908]
18	TRMT2B	1.39	-0.31	0.28	TRMT2B tRNA methyltransferase 2 homolog B (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:2908]
19	MUS81	1.39	-0.32	0.3	MUS81 MUS81 structure-specific endonuclease subunit [Source:HGNC Symbol;Acc:HGNC:2908]
20	FAM172A	1.37	-0.84	0.23	FAM172A family with sequence similarity 172, member A [Source:HGNC Symbol;Acc:HGNC:2908]

Geneset Overrepresentation

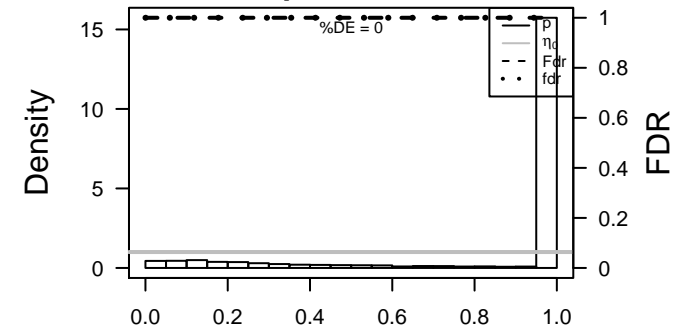
Rank	p-value	#in/all	Geneset
1	9e-06	53 / 9330	Brain Overlap_fetal_midbrain_ReprPC
2	4e-04	44 / 7592	Lymph HOPE_Active_promoter
3	6e-04	3 / 41	BP neuron development
4	6e-04	3 / 42	GSE/ MANTOVANI_VIRAL_GPCR_SIGNALING_DN
5	7e-04	5 / 175	miRN hsa-miR-548k
6	9e-04	8 / 507	miRN hsa-miR-15a
7	1e-03	4 / 115	miRN hsa-miR-515-5p
8	1e-03	2 / 13	GSE/ REACTOME_CELL_EXTRACELLULAR_MATRIX_INTERACTIONS
9	2e-03	3 / 61	GSE/ BYSTRYKH_HEMATOPOIESIS_STEM_CELL_AND_BRAIN_QTL_CIS
10	2e-03	4 / 132	miRN hsa-miR-320d
11	2e-03	49 / 9482	Color TssA_Color
12	2e-03	6 / 341	GSE/ MONNIER_POSTRADIATION_TUMOR_ESCAPE_DN
13	3e-03	5 / 235	GSE/ BLUM_RESPONSE_TO_SALIRASIB_UP
14	3e-03	4 / 146	miRN hsa-miR-320c
15	3e-03	4 / 147	miRN hsa-miR-143
16	3e-03	39 / 6929	Lymph HOPE_Txn_elongation
17	4e-03	6 / 366	miRN hsa-miR-519b-3p
18	5e-03	4 / 167	HM HALLMARK_IL2_STAT5_SIGNALING
19	5e-03	4 / 170	miRN hsa-miR-320b
20	5e-03	2 / 27	GSE/ KEGG_GLYCINE_SERINE_AND_THREONINE_METABOLISM
21	6e-03	6 / 405	miRN hsa-miR-519c-3p
22	7e-03	5 / 294	GSE/ DEBIASI_APOPTOSIS_BY_REOVIRUS_INFECTION_UP
23	7e-03	43 / 8205	CC cytoplasm
24	7e-03	7 / 555	GSE/ SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_DN
25	7e-03	2 / 31	CC dendritic shaft
26	7e-03	3 / 98	GSE/ BHATI_G2M_ARREST_BY_2METHOXYESTRADIOL_DN
27	8e-03	6 / 432	miRN hsa-miR-424
28	8e-03	2 / 33	MF estrogen receptor binding
29	8e-03	3 / 101	miRN hsa-miR-603
30	8e-03	1 / 2	TF MYC_ECM_cell_adhesion_DOWN
31	8e-03	2 / 34	BP response to nutrient levels
32	8e-03	2 / 34	GSE/ PACHER_TARGETS_OF_IGF1_AND_IGF2_UP
33	9e-03	3 / 106	GSE/ WIERENGA_STAT5A_TARGETS_GROUP1
34	9e-03	3 / 107	GSE/ BYSTRYKH_HEMATOPOIESIS_STEM_CELL_QTL_CIS
35	9e-03	2 / 36	GSE/ KEGG_VASOPRESSIN_REGULATED_WATER_REABSORPTION
36	1e-02	3 / 109	MF RNA polymerase II regulatory region sequence-specific DNA binding
37	1e-02	3 / 114	BP negative regulation of neuron apoptotic process
38	1e-02	6 / 471	miRN hsa-miR-15b
39	1e-02	3 / 117	BP regulation of mitochondrion degradation
40	1e-02	2 / 41	BP positive regulation of MAP kinase activity

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: s

metagenes = 12
genes = 179

<r> metagenes = 0.94
<r> genes = 0.09
beta: r2= 1.87 / log p= -Inf

samples with spot = 15 (16.3 %)
MSC1 : 4 (9.5 %)
MSC2 : 5 (20 %)
MSC3 : 6 (24 %)

Spot Genelist

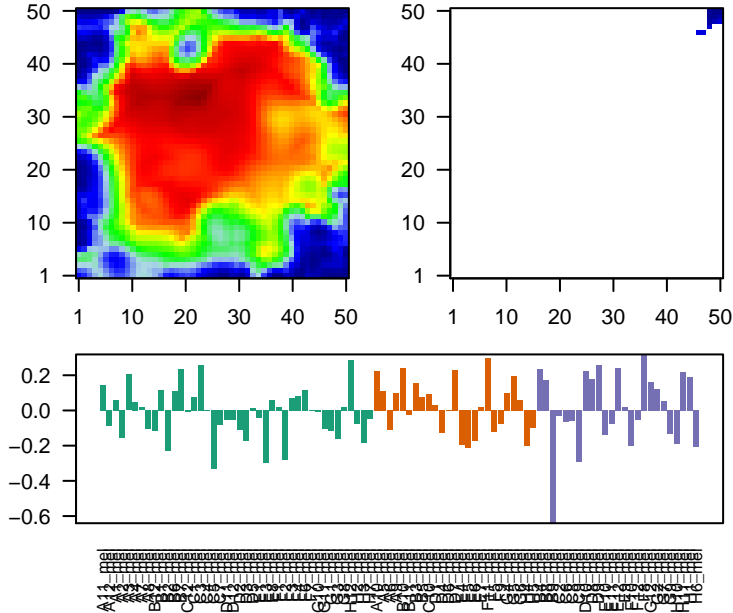
Rank	ID	max e	r	min e	Description
					Symbol
1	ITIH3	2.03	-0.28	0.21	ITIH3 inter-alpha-trypsin inhibitor heavy chain 3 [Source:HGNC Sy
2	LUZP6	1.88	-1.03	0.3	LUZP6 leucine zipper protein 6 [Source:HGNC Symbol;Acc:HGNC:3:
3	OAS1	1.86	-0.2	0.37	OAS1 2'-5'-oligoadenylate synthetase 1, 40/46kDa [Source:HGNC
4	ZFP62	1.82	-0.44	0.25	ZFP62 ZFP62 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:
5	C1orf109	1.77	-0.59	0.29	C1orf109chromosome 1 open reading frame 109 [Source:HGNC Symt
6	CYP19A1	1.7	-0.37	0.31	CYP19A1cytochrome P450, family 19, subfamily A, polypeptide 1 [Sou
7	UGP2	1.7	-1.72	0.24	UGP2 UDP-glucose pyrophosphorylase 2 [Source:HGNC Symbol;A
8	NLRC5	1.7	-0.18	0.25	NLRC5 NLR family, CARD domain containing 5 [Source:HGNC Symb
9	SRXN1	1.67	-0.81	0.3	SRXN1 sulfiredoxin 1 [Source:HGNC Symbol;Acc:HGNC:16132]
10	ICA1	1.66	-0.29	0.3	ICA1 islet cell autoantigen 1, 69kDa [Source:HGNC Symbol;Acc:H
11	RFT1	1.6	-0.52	0.29	RFT1 RFT1 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:H
12	IMMP2L	1.59	-0.86	0.29	IMMP2L IMP2 inner mitochondrial membrane peptidase-like (S. cerev
13	SPATA20	1.59	-0.29	0.29	SPATA20spermatogenesis associated 20 [Source:HGNC Symbol;Acc:l
14	METTL1	1.57	-1.04	0.29	METTL1 methyltransferase like 1 [Source:HGNC Symbol;Acc:HGNC:7
15	WDR27	1.54	-0.32	0.21	WDR27 WD repeat domain 27 [Source:HGNC Symbol;Acc:HGNC:21:
16	LETMD1	1.52	-0.56	0.19	LETMD1 LETM1 domain containing 1 [Source:HGNC Symbol;Acc:HG
17	ASL	1.51	-0.56	0.28	ASL argininosuccinate lyase [Source:HGNC Symbol;Acc:HGNC:7:
18	CYB561A3	1.51	-1.09	0.25	CYB561A3cytochrome b561 family, member A3 [Source:HGNC Symbol;
19	TRAPPC8	1.51	-0.98	0.27	TRAPPC8trafficking protein particle complex 8 [Source:HGNC Symbol;
20	PIGV	1.49	-0.28	0.34	PIGV phosphatidylinositol glycan anchor biosynthesis, class V [Sou

Geneset Overrepresentation

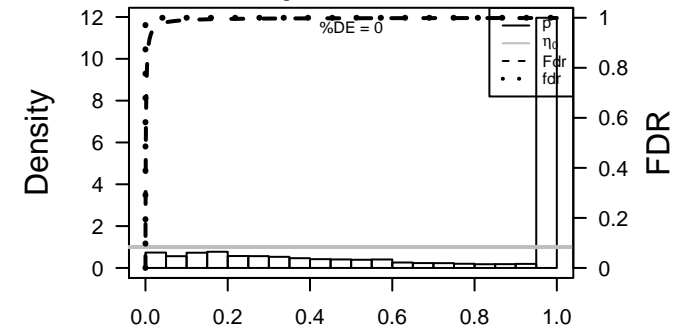
Rank	p-value	#in/all	Geneset
1	7e-12	155 / 9482	Colon TssA_Colon
2	1e-09	146 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
3	1e-08	144 / 9027	Colon Tx_Colon
4	2e-08	135 / 8205	CC cytoplasm
5	3e-08	43 / 1468	CC mitochondrion
6	3e-08	120 / 6929	Lymp HOPP_Txn_elongation
7	3e-08	146 / 9330	Brain Overlap_fetal_midbrain_ReprPC
8	5e-08	37 / 1171	TF KIM_MYC targets
9	2e-07	136 / 8580	Colon TxWk_Colon
10	5e-06	19 / 478	GSE/ STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
11	1e-05	17 / 424	GSE/ MILL_PSEUDOPODIA_CHEMOTAXIS_DN
12	3e-05	30 / 1126	GSE/ BLALOCK_ALZHEIMERS_DISEASE_DN
13	4e-05	118 / 7592	Lymp HOPP_Active_promoter
14	4e-05	56 / 2798	Color TxEnhG1_Colon
15	6e-05	88 / 5184	Lymp HOPP_Txn_transition
16	1e-04	23 / 800	GSE/ ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACENT_TISSUE_UP
17	1e-04	20 / 649	CC endoplasmic reticulum membrane
18	1e-04	138 / 9528	Brain Overlap_fetal_midbrain_Quies
19	2e-04	26 / 1008	GSE/ BRUINS_UVC_RESPONSE_LATE
20	2e-04	16 / 476	GSE/ IVANOVA_HEMATOPOIESIS_EARLY_PROGENITOR
21	3e-04	138 / 9653	Color Enh_Colon
22	3e-04	9 / 179	miRN hsa-miR-520f
23	3e-04	37 / 1730	BP small molecule metabolic process
24	5e-04	6 / 83	GSE/ LI_DCP2_BOUND_MRNA
25	6e-04	147 / 10605	CC intracellular
26	7e-04	9 / 200	GSE/ LINSLEY_MIR16_TARGETS
27	8e-04	8 / 162	BP ribosome biogenesis
28	8e-04	83 / 5155	Color EnhWk1_Colon
29	8e-04	14 / 435	GSE/ GARY_CD5_TARGETS_UP
30	9e-04	19 / 706	GSE/ BENPORATH_MYC_MAX_TARGETS
31	9e-04	7 / 128	CC ribosome
32	9e-04	108 / 7203	Color TssF_Colon
33	1e-03	13 / 393	GSE/ MITSIADES_RESPONSE_TO_APLIDIN_UP
34	1e-03	13 / 401	CC mitochondrial inner membrane
35	1e-03	27 / 1201	CC endoplasmic reticulum
36	2e-03	9 / 222	GSE/ CONCANNON_APOPTOSIS_BY_EPOXOMICIN_UP
37	2e-03	9 / 223	GSE/ HIRSCH_CELLULAR_TRANSFORMATION_SIGNATURE_UP
38	2e-03	10 / 277	BP translation
39	2e-03	11 / 325	GSE/ PENG_Glutamine_deprivation_DN
40	2e-03	4 / 45	GSE/ CHIBA_RESPONSE_TO_TSA

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: t

metagenes = 8
genes = 103

<r> metagenes = 0.97

<r> genes = 0.1

beta: r2= 1.62 / log p= -Inf

samples with spot = 16 (17.4 %)

MSC1 : 2 (4.8 %)

MSC2 : 5 (20 %)

MSC3 : 9 (36 %)

Spot Genelist

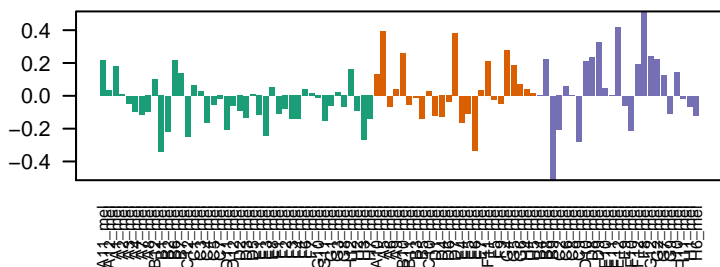
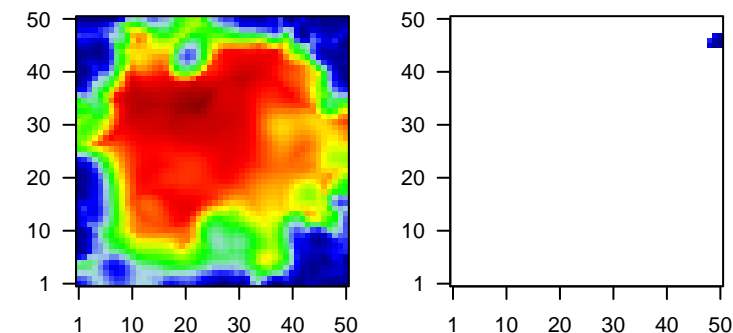
Rank	ID	max e	r	min e	Description
					Symbol
1	PIBF1	1.97	-0.47	0.28	PIBF1 progesterone immunomodulatory binding factor 1 [Source:HGNC
2	CC2D2A	1.84	-0.51	0.36	CC2D2A coiled-coil and C2 domain containing 2A [Source:HGNC Syrr
3	GSDMB	1.8	-0.19	0.37	GSDMB gasdermin B [Source:HGNC Symbol;Acc:HGNC:23690]
4	GORAB	1.77	-0.45	0.34	GORAB golgin, RAB6-interacting [Source:HGNC Symbol;Acc:HGNC:
5	C1S	1.74	-0.17	0.44	C1S complement component 1, s subcomponent [Source:HGNC S
6	TMEM53	1.71	-0.39	0.29	TMEM53transmembrane protein 53 [Source:HGNC Symbol;Acc:HGNC
7	VASP	1.69	-0.36	0.28	VASP vasodilator-stimulated phosphoprotein [Source:HGNC Symb
8	ZNF420	1.68	-0.43	0.28	ZNF420 zinc finger protein 420 [Source:HGNC Symbol;Acc:HGNC:20
9	PHOSPHO2	1.62	-0.32	0.36	PHOSPHO2phosphatase, orphan 2 [Source:HGNC Symbol;Acc:HGNC:2
10	MFSD8	1.6	-0.35	0.36	MFSD8 major facilitator superfamily domain containing 8 [Source:HGI
11	DCAF10	1.58	-0.65	0.26	DCAF10 DDB1 and CUL4 associated factor 10 [Source:HGNC Symb
12	TRO	1.57	-0.73	0.41	TRO trophinin [Source:HGNC Symbol;Acc:HGNC:12326]
13	AMPD2	1.56	-0.6	0.41	AMPD2 adenosine monophosphate deaminase 2 [Source:HGNC Syrr
14	TSC2	1.55	-0.53	0.4	TSC2 tuberous sclerosis 2 [Source:HGNC Symbol;Acc:HGNC:1236
15	PHF8	1.55	-0.41	0.26	PHF8 PHD finger protein 8 [Source:HGNC Symbol;Acc:HGNC:2067
16	DNHD1	1.54	-0.23	0.3	DNHD1 dynein heavy chain domain 1 [Source:HGNC Symbol;Acc:HG
17	PHYKPL	1.52	-0.43	0.29	PHYKPL 5-phosphohydroxy-L-lysine phospho-lyase [Source:HGNC :
18	ZNF668	1.52	-0.23	0.28	ZNF668 zinc finger protein 668 [Source:HGNC Symbol;Acc:HGNC:25
19	HIST3H2A	1.51	-0.86	0.44	HIST3H2Ahistone cluster 3, H2a [Source:HGNC Symbol;Acc:HGNC:20
20	DPH7	1.48	-0.35	0.33	DPH7 diphthamide biosynthesis 7 [Source:HGNC Symbol;Acc:HGNC

Geneset Overrepresentation

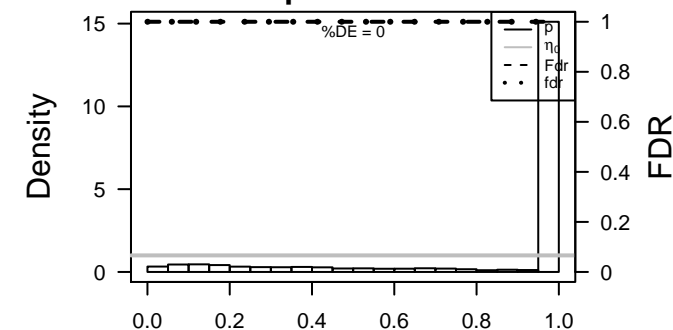
Rank	p-value	#in/all	Geneset
1	6e-11	90 / 8580	Colon TxWk_Colon
2	5e-10	91 / 9027	Colon Tx_Colon
3	9e-08	89 / 9330	Brain Overlap_fetal_midbrain_ReprPC
4	5e-07	73 / 6929	Lymph HOPP_Txn_elongation
5	2e-06	76 / 7592	Lymph HOPP_Active_promoter
6	2e-05	37 / 2755	BP transport
7	7e-05	84 / 9482	Colon TssA_Colon
8	8e-05	81 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
9	1e-04	77 / 8415	Colon Quies3_Colon
10	2e-04	54 / 5184	Lymph HOPP_Txn_transition
11	3e-04	59 / 5940	Brain Overlap_fetal_midbrain_HetRpts
12	5e-04	28 / 2136	TF ICGC_GabpPcr2_targets
13	5e-04	4 / 54	CC transport vesicle
14	1e-03	66 / 7203	Color TssF_Colon
15	1e-03	6 / 176	GSE/ TIEN_INTESTINE_PROBIOTICS_24HR_DN
16	2e-03	3 / 35	GSE/ VANHARANTA_UTERINE_FIBROID_WITH_7Q_DELETION_DN
17	2e-03	2 / 10	CC WASH complex
18	2e-03	3 / 37	miRN hsa-miR-760
19	2e-03	3 / 38	GSE/ IRITANI_MAD1_TARGETS_DN
20	3e-03	2 / 11	BP activation of mitophagy in response to mitochondrial depolarization
21	3e-03	2 / 11	BP posttranscriptional regulation of gene expression
22	3e-03	2 / 12	MF protein methyltransferase activity
23	3e-03	5 / 142	GSE/ IWANAGA_CARCINOGENESIS_BY_KRAS_UP
24	4e-03	2 / 13	BP cAMP catabolic process
25	4e-03	64 / 7209	Lymph HOPP_Weak_promoter
26	4e-03	31 / 2798	Color TxEnhG1_Colon
27	4e-03	2 / 14	BP protein ADP-ribosylation
28	4e-03	79 / 9528	Brain Overlap_fetal_midbrain_Quies
29	5e-03	2 / 15	CC BLOC-1 complex
30	5e-03	3 / 51	miRN hsa-miR-508-5p
31	5e-03	2 / 16	GSE/ MEISSNER_NPC_ICP_WITH_H3K4ME3
32	6e-03	4 / 104	GSE/ LAIHO_COLORECTAL_CANCER_SERRATED_UP
33	6e-03	45 / 4689	TF ICGC_Taf1_targets
34	7e-03	85 / 10605	CC intracellular
35	7e-03	83 / 10290	Color TssWk_Colon
36	7e-03	11 / 675	GSE/ BENPORATH_SOX2_TARGETS
37	7e-03	39 / 3924	TF ICGC_Zeb1_targets
38	7e-03	79 / 9653	Color Enh_Colon
39	8e-03	3 / 59	BP cilium morphogenesis
40	8e-03	46 / 4879	TF ICGC_Pmlsc71910_targets

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: u

metagenes = 10
genes = 177

<r> metagenes = 0.92
<r> genes = 0.14
beta: r2= 2.14 / log p= -Inf

samples with spot = 15 (16.3 %)
MSC2 : 10 (40 %)
MSC3 : 5 (20 %)

Spot Genelist

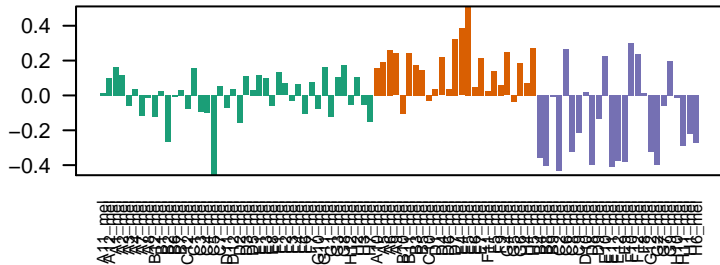
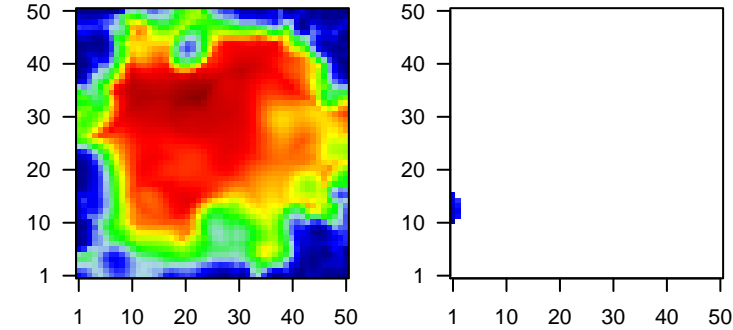
Rank	ID	max e	r	min e	Description
1	EGLN3	1.89	-0.41	0.36	EGLN3 egl-9 family hypoxia-inducible factor 3 [Source:HGNC Symbol]
2	CFAP61	1.86	-0.52	0.45	CFAP61 cilia and flagella associated protein 61 [Source:HGNC Symbol]
3	LYRM9	1.85	-0.31	0.28	LYRM9 LYR motif containing 9 [Source:HGNC Symbol;Acc:HGNC:27]
4	SLC26A4	1.8	-0.16	0.43	SLC26A4solute carrier family 26 (anion exchanger), member 4 [Source:HGNC Symbol;Acc:HGNC:27050]
5	BBS5	1.74	-0.64	0.36	BBS5 Bardet-Biedl syndrome 5 [Source:HGNC Symbol;Acc:HGNC:27050]
6	STARD3	1.71	-0.69	0.23	STARD3 StAR-related lipid transfer (START) domain containing 3 [Source:HGNC Symbol;Acc:HGNC:27050]
7	C1orf54	1.7	-0.3	0.41	C1orf54 chromosome 1 open reading frame 54 [Source:HGNC Symbol]
8	SUOX	1.69	-0.67	0.27	SUOX sulfite oxidase [Source:HGNC Symbol;Acc:HGNC:11460]
9	VAV3	1.65	-0.26	0.39	VAV3 vav 3 guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:27050]
10	PRKCH	1.63	-0.39	0.32	PRKCH protein kinase C, eta [Source:HGNC Symbol;Acc:HGNC:940]
11	BID	1.61	-0.75	0.4	BID BH3 interacting domain death agonist [Source:HGNC Symbol;Acc:HGNC:27050]
12	TGDS	1.58	-0.72	0.45	TGDS TDP-glucose 4,6-dehydratase [Source:HGNC Symbol;Acc:HGNC:27050]
13	ANKRD44	1.57	-0.71	0.34	ANKRD44ankyrin repeat domain 44 [Source:HGNC Symbol;Acc:HGNC:27050]
14	DGKI	1.57	-0.49	0.35	DGKI diacylglycerol kinase, iota [Source:HGNC Symbol;Acc:HGNC:27050]
15	SCIN	1.52	-0.65	0.27	SCIN scinderin [Source:HGNC Symbol;Acc:HGNC:21695]
16	GALNT3	1.52	-0.97	0.57	GALNT3 polypeptide N-acetylgalactosaminyltransferase 3 [Source:HGNC Symbol;Acc:HGNC:27050]
17	ERCC8	1.5	-0.53	0.22	ERCC8 excision repair cross-complementation group 8 [Source:HGNC Symbol;Acc:HGNC:27050]
18	MYO1D	1.5	-0.5	0.31	MYO1D myosin ID [Source:HGNC Symbol;Acc:HGNC:7598]
19	BCAT2	1.5	-0.51	0.38	BCAT2 branched chain amino-acid transaminase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:27050]
20	KIF3C	1.5	-0.28	0.27	KIF3C kinesin family member 3C [Source:HGNC Symbol;Acc:HGNC:27050]

Geneset Overrepresentation

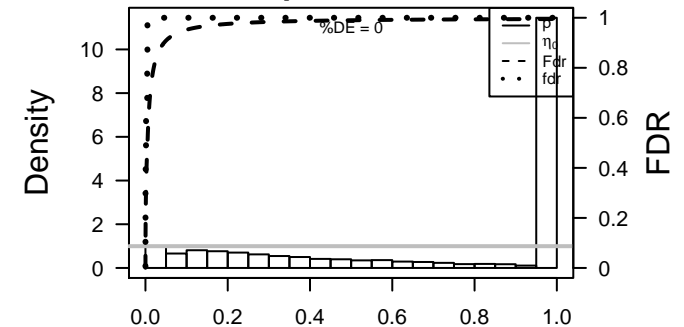
Rank	p-value	#in/all	Geneset
1	9e-08	139 / 9020	Brain Overlap_fetal_midbrain_ReprPCWk
2	1e-06	8 / 67	BP pigmentation
3	2e-06	5 / 18	BP melanocyte differentiation
4	3e-06	140 / 9528	Brain Overlap_fetal_midbrain_Quies
5	6e-06	134 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
6	1e-05	4 / 13	BP melanin biosynthetic process
7	2e-05	4 / 15	BP developmental pigmentation
8	2e-05	4 / 15	GSE/ BOYVAULT_LIVER_CANCER_SUBCLASS_G56_DN
9	3e-05	135 / 9330	Brain Overlap_fetal_midbrain_ReprPC
10	6e-05	17 / 482	GSE/ RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_DN
11	9e-05	25 / 930	GSE/ NUYTEN_EZH2_TARGETS_UP
12	1e-04	4 / 21	BP melanosome transport
13	2e-04	68 / 3897	Color Quies1_Colon
14	2e-04	10 / 212	GSE/ DUTERTRE ESTRADIOL_RESPONSE_6HR_UP
15	2e-04	101 / 6564	Lymp HOPP_Strong_enhancer
16	3e-04	13 / 353	GSE/ ONDER_CDH1_TARGETS_2_DN
17	3e-04	6 / 79	GSE/ NELSON_RESPONSE_TO_ANDROGEN_UP
18	4e-04	13 / 364	GSE/ REACTOME_HEMOSTASIS
19	4e-04	3 / 13	GSE/ REACTOME_OTHER_SEMAPHORIN_INTERACTIONS
20	5e-04	121 / 8415	Color Quies3_Colon
21	5e-04	5 / 55	GSE/ BILBAN_B_CLL_LPL_UP
22	5e-04	6 / 84	miRN hsa-miR-339-5p
23	5e-04	5 / 57	BP response to hormone
24	7e-04	3 / 15	Color Budinska_B_Lower crypt-like_UP
25	7e-04	14 / 436	Color K9acLow_Colon
26	7e-04	13 / 388	BP blood coagulation
27	8e-04	12 / 346	GSE/ RIGGI_EWING_SARCOMA_PROGENITOR_UP
28	9e-04	64 / 3812	Color TssD1_Colon
29	9e-04	10 / 256	GSE/ PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_UP
30	9e-04	5 / 64	GSE/ CHANG_IMMORTALIZED_BY_HPV31_UP
31	1e-03	81 / 5155	Color EnhWk1_Colon
32	1e-03	58 / 3383	Color EnhWk2_Colon
33	1e-03	12 / 356	GSE/ DELYS_THYROID_CANCER_UP
34	1e-03	14 / 458	GSE/ ENK_UV_RESPONSE_EPIDERMIS_DN
35	1e-03	4 / 40	GSE/ ZHAN_MULTIPLE_MYELOMA_CD1_DN
36	1e-03	7 / 139	GSE/ PUIFFE_INVASION_INHIBITED_BY_ASCITES_DN
37	1e-03	9 / 223	GSE/ MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_UP
38	1e-03	2 / 5	GSE/ TSAI_DNAJB4_TARGETS_DN
39	1e-03	3 / 19	BP positive regulation of erythrocyte differentiation
40	1e-03	11 / 317	GSE/ PHONG_TNF_RESPONSE_NOT_VIA_P38

Overview Map

Spot



p-values



Rank	p-value	#in/all
1	0.000000	13
2	0.000000	13
3	0.000000	13
4	0.000000	13
5	0.000000	13
6	0.000000	13
7	0.000000	13
8	0.000000	13
9	0.000000	13
10	0.000000	13
11	0.000000	13
12	0.000000	13
13	0.000000	13
14	0.000000	13
15	0.000000	13
16	0.000000	13
17	0.000000	13
18	0.000000	13
19	0.000000	13
20	0.000000	13
21	0.000000	13
22	0.000000	13
23	0.000000	13
24	0.000000	13
25	0.000000	13
26	0.000000	13
27	0.000000	13
28	0.000000	13
29	0.000000	13
30	0.000000	13
31	0.000000	13
32	0.000000	13
33	0.000000	13
34	0.000000	13
35	0.000000	13
36	0.000000	13
37	0.000000	13
38	0.000000	13
39	0.000000	13
40	0.000000	13
41	0.000000	13
42	0.000000	13
43	0.000000	13
44	0.000000	13
45	0.000000	13
46	0.000000	13
47	0.000000	13
48	0.000000	13
49	0.000000	13
50	0.000000	13

Geneset
 downing genes meth DOWN
 HORVATH_age_genes meth UP
 TESCHENDORFF_age_hypermethylated

Rank	p-value	#in/all
1	0.000000	10
2	0.000000	10
3	0.000000	10
4	0.000000	10
5	0.000000	10
6	0.000000	10
7	0.000000	10
8	0.000000	10
9	0.000000	10
10	0.000000	10
11	0.000000	10
12	0.000000	10
13	0.000000	10
14	0.000000	10
15	0.000000	10
16	0.000000	10
17	0.000000	10
18	0.000000	10
19	0.000000	10
20	0.000000	10
21	0.000000	10
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44	0.000000	10
45	0.000000	10
46	0.000000	10
47	0.000000	10
48	0.000000	10
49	0.000000	10
50	0.000000	10

Geneset
 Lemcke_Colonic_Inflammation
 GENESET_PROSTATE_CANCER_DN
 SPANG_BCL2_index
 PanCan_Glioblastoma_CANCER_UP
 PanCan_Glioblastoma_geneset_nanostring
 GENESET_MODULE1_CANCER_GRADE_1_VS_3_DN
 GENESET_MODULE4
 WOLFER_overlap_geneset
 KUIPER_MM_good_survival
 Lemcke_Normal_vs_Adenoma
 PanCan_MM_geneset_nanostring
 ZHANG_MM_up
 PanCan_MM_geneset_nanostring
 PanCan_Driver_Gene_geneset_nanostring
 KUIPER_MM_poor_survival

Rank	p-value	#in/all
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3	0.000000	10
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47	0.000000	10
48	0.000000	10
49	0.000000	10
50	0.000000	10

Geneset
 Ques1_Colon
 Budinska_B_Lower_crypt-like_UP
 K9acLow_Colon
 EST1_Colon
 ENHWT_Colon
 EST2_Colon
 EST3_Colon
 KIM_MSC-in-EC
 Ques2_Colon
 ENH_Colon
 ISSA_Colon
 Mansa_CRC-cluster-d
 Centrack_CRC_TCGA_corr_C_normal_UP
 Budinska_C_CIMP-H-like_UP
 Helpts_Colon
 Mansa_CRC-cluster-a

Rank	p-value	#in/all
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2	0.000000	10
3	0.000000	10
4	0.000000	10
5	0.000000	10
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49	0.000000	10
50	0.000000	10

Geneset
 OVER_CANCER_SUBCLASS_G56_DN
 RODRIGUES_U2F7001_CARCINOMA_ANAPLASTIC_DN
 OUYANG_ACTIVE_EFFECTS_UP
 OUYANG_ESTRADIOL_RESPONSE_6HR_UP
 BILSON_RESPONSE_TO_ANDROGEN_UP
 BRACONOME_CITOSTATASINAPHORIN_INTERACTIONS
 BILBENI_BCL2_LIT_DB
 BISQUERINIC_SYNDROMIA_PROGENITOR_UP
 OUYANG_IMMORTALIZED_BY_PV31_UP
 ENK_UV_RESPONSE_FIBRIN_DN
 ZHANG_MITOSIS_MITOMEDBY_DN
 MUYAGAWA_TARGETS_OF_WSR_TETS_FUSIONS_UP
 PHONGVINE_RESPONSES_DN
 PID_RHOA_REG_PATHWAY

Rank	p-value	#in/all
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Geneset
 HOPP_Replicative
 HOPP_Active_promoter
 DAVE_Immune_response_2
 Aukema_BCL2_DN_BCL6_UP
 HOPP_Poised_promoter
 SPANG_CAD_gens DN
 HOPP_Weak_enhancer
 HOPP_Hypo_meth
 HOPG_Ixn_elongation
 HOPP_Ixn_transition
 HOPP_Custom_ABC-DLCL_UP
 HOPB_Repressed
 HOPB_Weak_promoter
 HOPB_MM_Hypo_meth
 HOPB_Weak_Ixn
 BENTINK_MBL_UP

Rank	p-value	#in/all
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Geneset
 COXINB1_targets
 COXINB2_targets
 COXINB3_targets
 COXINB4_targets
 COXINB5_targets
 COXINB6_targets
 COXINB7_targets
 COXINB8_targets
 COXINB9_targets
 COXINB10_targets
 COXINB11_targets
 COXINB12_targets
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 COXINB98_targets
 COXINB99_targets
 COXINB100_targets

Rank	p-value	#in/all
1	0.000000	10
2	0.000000	10
3	0.000000	10
4	0.000000	10
5	0.000000	1

Underexpression Spots

Spot Summary: v

metagenes = 30
genes = 257

<r> metagenes = 0.9
<r> genes = 0.12
beta: r2= 3.37 / log p= -Inf

samples with spot = 13 (14.1 %)
MSC1 : 13 (31 %)

Spot Genelist

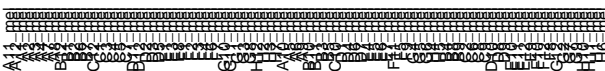
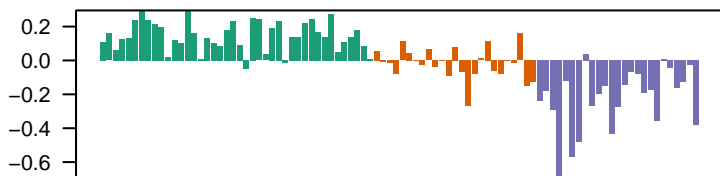
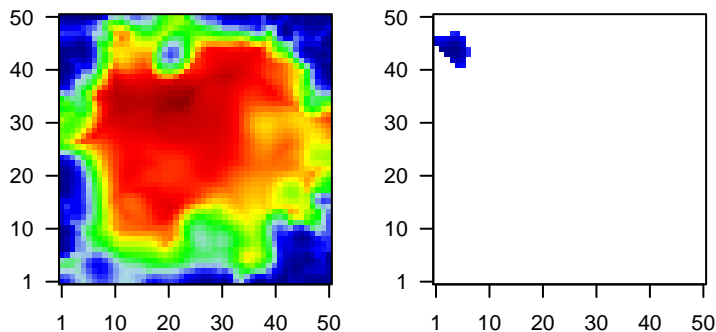
Rank	ID	max e	r	min e	Description
1	C4orf33	1.97	-0.26	0.29	C4orf33 chromosome 4 open reading frame 33 [Source:HGNC Symbc
2	GIN54	1.81	-0.28	0.4	GIN54 GINS complex subunit 4 (Sld5 homolog) [Source:HGNC Sym
3	MARCH3	1.72	-0.43	0.33	MARCH3membrane-associated ring finger (C3HC4) 3, E3 ubiquitin pr
4	THUMP2	1.71	-1.04	0.28	THUMP2THUMP domain containing 2 [Source:HGNC Symbol;Acc:HG
5	ER11	1.67	-0.32	0.35	ER11 exoribonuclease 1 [Source:HGNC Symbol;Acc:HGNC:23994]
6	MTBP	1.64	-0.38	0.33	MTBP MDM2 binding protein [Source:HGNC Symbol;Acc:HGNC:74
7	MCCC1	1.64	-0.58	0.24	MCCC1 methylcrotonoyl-CoA carboxylase 1 (alpha) [Source:HGNC S
8	FAM81A	1.62	-0.21	0.22	FAM81A family with sequence similarity 81, member A [Source:HGNC
9	MED24	1.62	-0.74	0.24	MED24 mediator complex subunit 24 [Source:HGNC Symbol;Acc:HG
10	NT5DC2	1.62	-0.98	0.28	NT5DC2 5'-nucleotidase domain containing 2 [Source:HGNC Symbol;
11	MUC7	1.61	-0.26	0.44	MUC7 mucin 7, secreted [Source:HGNC Symbol;Acc:HGNC:7518]
12	HMGN4	1.6	-1.21	0.25	HMGN4 high mobility group nucleosomal binding domain 4 [Source:H
13	FANCG	1.6	-0.28	0.37	FANCG Fanconi anemia, complementation group G [Source:HGNC S
14	SCAPER	1.59	-0.91	0.31	SCAPERs-phase cyclin A-associated protein in the ER [Source:HGNC
15	RBM10	1.58	-0.51	0.3	RBM10 RNA binding motif protein 10 [Source:HGNC Symbol;Acc:HG
16	C1orf21	1.56	-0.91	0.34	C1orf21 chromosome 1 open reading frame 21 [Source:HGNC Symbc
17	MIPEP	1.55	-0.46	0.29	MIPEP mitochondrial intermediate peptidase [Source:HGNC Symbol
18	CAD	1.54	-0.51	0.28	CAD carbamoyl-phosphate synthetase 2, aspartate transcarbamyl
19	TMEM243	1.54	-0.76	0.45	TMEM243transmembrane protein 243, mitochondrial [Source:HGNC Sy
20	REPS1	1.53	-0.63	0.24	REPS1 RALBP1 associated Eps domain containing 1 [Source:HGNC

Geneset Overrepresentation

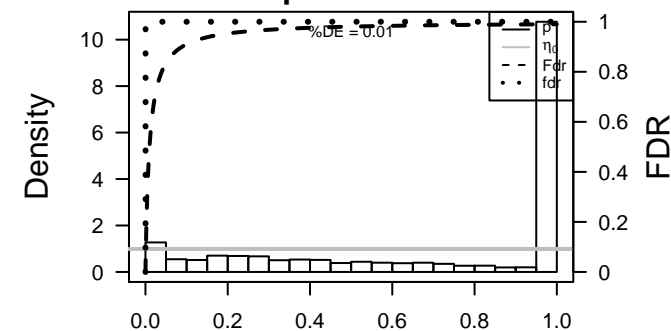
Rank	p-value	#in/all	Geneset
1	4e-16	193 / 7592	LympI HOPP_Active_promoter
2	2e-15	69 / 1460	GSE/ PUJANA_BRCA1_PCC_NETWORK
3	1e-12	46 / 834	GSE/ LEE_BMP2_TARGETS_DN
4	2e-12	211 / 9330	Brain Overlap_fetal_midbrain_ReprPC
5	2e-12	174 / 6929	LympI HOPP_Txn_elongation
6	6e-12	59 / 1326	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
7	7e-12	212 / 9482	Colon TssA_Colon
8	9e-12	55 / 1192	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
9	1e-11	42 / 756	GSE/ WEI_MYCN_TARGETS_WITH_E_BOX
10	8e-11	24 / 278	GSE/ MANALO_HYPOXIA_DN
11	2e-10	216 / 9988	CC organelle
12	5e-10	51 / 1171	TF KIM_MYC targets
13	9e-10	200 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
14	1e-09	19 / 197	HM HALLMARK_E2F_TARGETS
15	1e-09	171 / 7209	LympI HOPP_Weak_promoter
16	2e-09	67 / 1858	GSE/ PILON_KLF1_TARGETS_DN
17	2e-09	37 / 724	GSE/ PUJANA_CHEK2_PCC_NETWORK
18	7e-09	21 / 268	GSE/ FOURNIER_ACINAR_DEVELOPMENT_LATE_2
19	8e-09	26 / 405	GSE/ MOOTHA_HUMAN_MITODB_6_2002
20	1e-08	31 / 562	GSE/ CAIRO_HEPATOBLASTOMA_CLASSES_UP
21	3e-08	219 / 10605	CC intracellular
22	1e-07	25 / 436	GSE/ SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
23	3e-07	52 / 1468	CC mitochondrion
24	5e-07	21 / 341	GSE/ RHEIN_ALL_GLUCOCORTICOID_THERAPY_DN
25	7e-07	9 / 59	TF MYC_Targets UP
26	7e-07	136 / 5696	CC nucleus
27	7e-07	21 / 351	GSE/ BENPORATH_ES_1
28	7e-07	16 / 211	GSE/ BIDUS_METASTASIS_UP
29	9e-07	7 / 32	GSE/ REACTOME_INTERACTIONS_OF_VPR_WITH_HOST_CELLULAR_PRO
30	1e-06	25 / 485	GSE/ CHICAS_RB1_TARGETS_DN
31	1e-06	126 / 5184	LympI HOPP_Txn_transition
32	1e-06	31 / 700	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
33	1e-06	39 / 1008	GSE/ BRUINS_UVC_RESPONSE_LATE
34	1e-06	45 / 1251	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_DN
35	2e-06	20 / 338	GSE/ DAIRKEE_TERT_TARGETS_UP
36	2e-06	35 / 862	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
37	2e-06	26 / 536	GSE/ TIEN_INTESTINE_PROBIOTICS_24HR_UP
38	2e-06	19 / 312	GSE/ WONG_EMBRYONIC_STEM_CELL_CORE
39	2e-06	37 / 944	GSE/ NUYTEN_EZH2_TARGETS_DN
40	2e-06	15 / 202	GSE/ CHANG_CORE_SERUM_RESPONSE_UP

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: w

metagenes = 11
genes = 162

<r> metagenes = 0.91
<r> genes = 0.08
beta: r2= 1.33 / log p= -Inf

samples with spot = 9 (9.8 %)
MSC1 : 2 (4.8 %)
MSC2 : 3 (12 %)
MSC3 : 4 (16 %)

Spot Genelist

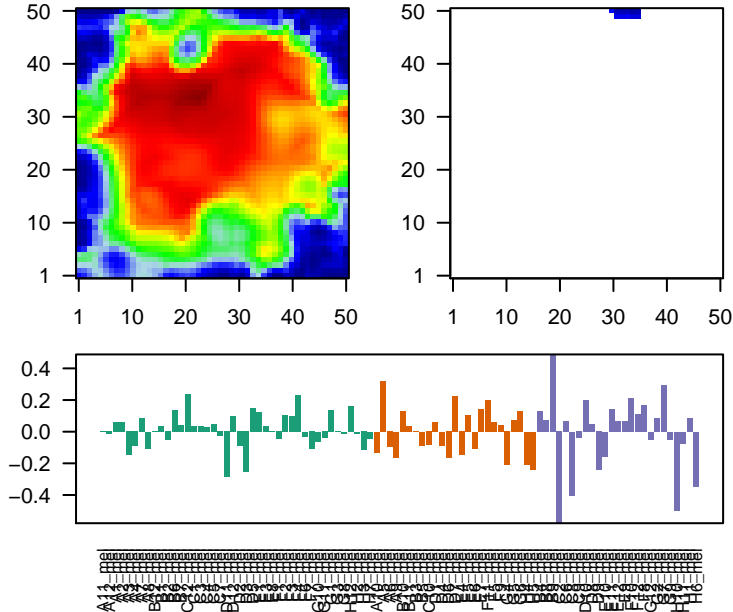
Rank	ID	max e	r	min e	Description
1	TYK2	2.19	-0.38	0.23	TYK2 tyrosine kinase 2 [Source:HGNC Symbol;Acc:HGNC:12440]
2	BAAT	1.99	-0.45	0.28	BAAT bile acid CoA:amino acid N-acyltransferase [Source:HGNC S
3	FAM179B	1.85	-0.27	0.24	FAM179B family with sequence similarity 179, member B [Source:HGNC
4	PLCG1	1.83	-0.72	0.36	PLCG1 phospholipase C, gamma 1 [Source:HGNC Symbol;Acc:HGNC
5	FBXW4	1.8	-0.4	0.22	FBXW4 F-box and WD repeat domain containing 4 [Source:HGNC S
6	RAD51B	1.8	-0.76	0.28	RAD51B RAD51 paralogue B [Source:HGNC Symbol;Acc:HGNC:9822]
7	PCK2	1.77	-0.36	0.39	PCK2 phosphoenolpyruvate carboxykinase 2 (mitochondrial) [Sourc
8	PLD6	1.73	-0.29	0.35	PLD6 phospholipase D family, member 6 [Source:HGNC Symbol;Ac
9	TRIM68	1.72	-0.24	0.3	TRIM68 tripartite motif containing 68 [Source:HGNC Symbol;Acc:HGNC
10	DMWD	1.7	-0.24	0.22	DMWD dystrophia myotonica, WD repeat containing [Source:HGNC S
11	DAK	1.69	-0.31	0.33	DAK dihydroxyacetone kinase 2 homolog (S. cerevisiae) [Source:HGNC
12	POLR3F	1.67	-0.67	0.28	POLR3F polymerase (RNA) III (DNA directed) polypeptide F, 39 kDa [S
13	POLI	1.67	-0.5	0.34	POLI polymerase (DNA directed) iota [Source:HGNC Symbol;Acc:HGNC
14	MTRF1	1.66	-0.48	0.25	MTRF1 mitochondrial translational release factor 1 [Source:HGNC Sy
15	COG3	1.64	-0.54	0.39	COG3 component of oligomeric golgi complex 3 [Source:HGNC Syrr
16	DHRS12	1.62	-0.43	0.27	DHRS12 dehydrogenase/reductase (SDR family) member 12 [Source:HGNC
17	APPL2	1.58	-0.55	0.35	APPL2 adaptor protein, phosphotyrosine interaction, PH domain and
18	ZNF561	1.55	-0.49	0.27	ZNF561 zinc finger protein 561 [Source:HGNC Symbol;Acc:HGNC:28
19	BCHE	1.54	-0.55	0.27	BCHE butyrylcholinesterase [Source:HGNC Symbol;Acc:HGNC:983
20	CPT1B	1.54	-0.41	0.35	CPT1B carnitine palmitoyltransferase 1B (muscle) [Source:HGNC Sy

Geneset Overrepresentation

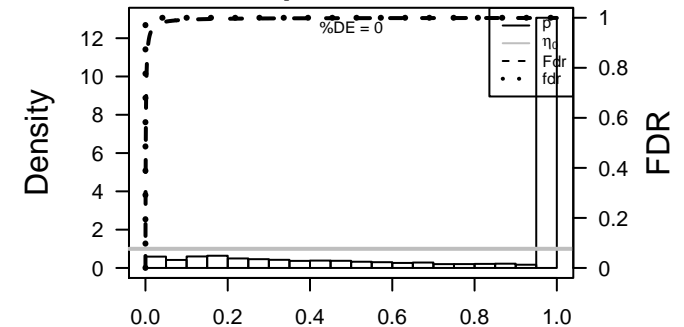
Rank	p-value	#in/all	Geneset
1	5e-13	140 / 9027	Colon Tx_Colon
2	7e-13	136 / 8580	Colon TxWk_Colon
3	3e-10	115 / 6929	Lymph HOPP_Txn_elongation
4	3e-10	139 / 9482	Colon Tssa_Colon
5	1e-09	103 / 5940	Brain Overlap_fetal_midbrain_HetRpts
6	3e-09	133 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
7	1e-08	118 / 7592	Lymph HOPP_Active_promoter
8	2e-08	134 / 9330	Brain Overlap_fetal_midbrain_ReprPC
9	5e-08	90 / 5184	Lymph HOPP_Txn_transition
10	1e-06	35 / 1365	MF RNA binding
11	1e-05	139 / 10605	CC intracellular
12	1e-05	27 / 1007	MF poly(A) RNA binding
13	6e-05	127 / 9528	Brain Overlap_fetal_midbrain_Quies
14	2e-04	47 / 2577	CC nucleoplasm
15	2e-04	19 / 687	BP gene expression
16	2e-04	29 / 1326	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
17	3e-04	22 / 890	GSE/ ACEVEDO_LIVER_CANCER_UP
18	3e-04	20 / 775	Chr Chr 12
19	3e-04	15 / 493	GSE/ MILL_PSEUDOPODIA_HAPTOTAXIS_UP
20	5e-04	8 / 167	GSE/ YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_13
21	7e-04	13 / 422	BP viral process
22	8e-04	3 / 17	MF RNA polymerase II core binding
23	9e-04	25 / 1171	TF KIM_MYC targets
24	1e-03	10 / 278	GSE/ MANALO_HYPOXIA_DN
25	1e-03	109 / 8205	CC cytoplasm
26	1e-03	19 / 800	GSE/ ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACENT_TISSUE_UP
27	1e-03	127 / 9988	CC organelle
28	1e-03	36 / 1975	BP cellular protein modification process
29	1e-03	12 / 393	BP mRNA processing
30	1e-03	98 / 7209	Lymph HOPP_Weak_promoter
31	2e-03	4 / 47	Glio Vishal_subnetwork signature of survival in GBM
32	2e-03	5 / 79	MF protein transporter activity
33	2e-03	3 / 23	BP ncRNA metabolic process
34	2e-03	14 / 532	GSE/ PARENT_MTOR_SIGNALING_UP
35	2e-03	10 / 309	GSE/ REACTOME_METABOLISM_OF_PROTEINS
36	2e-03	110 / 8415	Color Quies3_Colon
37	2e-03	3 / 24	MF histone acetyltransferase binding
38	2e-03	116 / 9020	Brain Overlap_fetal_midbrain_ReprPCwk
39	3e-03	3 / 26	GSE/ REACTOME_ASSOCIATION_OF_TRIC_CCT_WITH_TARGET_PROTEINS
40	3e-03	14 / 555	GSE/ SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_DN

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: x

metagenes = 16
genes = 178

<r> metagenes = 0.89
<r> genes = 0.09
beta: r2= 1.43 / log p= -Inf

samples with spot = 9 (9.8 %)
MSC2 : 3 (12 %)
MSC3 : 6 (24 %)

Spot Genelist

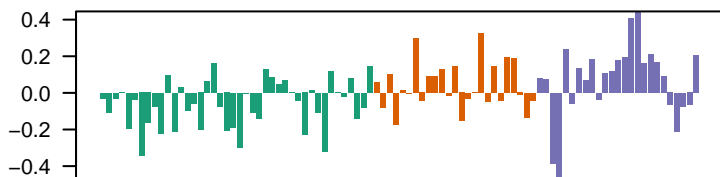
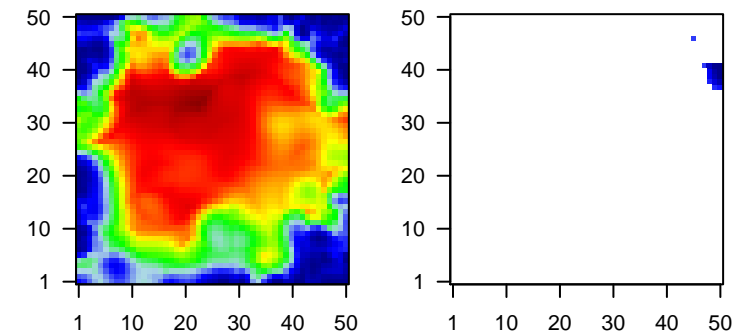
Rank	ID	max e	r	min e	Description
					Symbol
1	CCL18	2.45	-0.48	0.42	CCL18 chemokine (C-C motif) ligand 18 (pulmonary and activation-)
2	P2RX7	2.1	-0.56	0.41	P2RX7 purinergic receptor P2X, ligand gated ion channel, 7 [Source:
3	CTSK	1.72	-0.29	0.38	CTSK cathepsin K [Source:HGNC Symbol;Acc:HGNC:2536]
4	ZNF35	1.72	-0.24	0.27	ZNF35 zinc finger protein 35 [Source:HGNC Symbol;Acc:HGNC:130
5	SYNPR	1.68	-0.63	0.31	SYNPR synaptoporin [Source:HGNC Symbol;Acc:HGNC:16507]
6	CAPS2	1.67	-0.27	0.3	CAPS2 calycophosine 2 [Source:HGNC Symbol;Acc:HGNC:16471]
7	SLC26A6	1.63	-0.39	0.28	SLC26A6 solute carrier family 26 (anion exchanger), member 6 [Source
8	RNF217	1.62	-0.31	0.24	RNF217 ring finger protein 217 [Source:HGNC Symbol;Acc:HGNC:21
9	FBXO32	1.62	-0.54	0.35	FBXO32 F-box protein 32 [Source:HGNC Symbol;Acc:HGNC:16731]
10	CES2	1.61	-0.39	0.25	CES2 carboxylesterase 2 [Source:HGNC Symbol;Acc:HGNC:1864]
11	ATP10D	1.61	-0.52	0.4	ATP10D ATPase, class V, type 10D [Source:HGNC Symbol;Acc:HGNC
12	WDR59	1.61	-0.74	0.43	WDR59 WD repeat domain 59 [Source:HGNC Symbol;Acc:HGNC:25
13	ZFC3H1	1.61	-0.58	0.29	ZFC3H1 zinc finger, C3H1-type containing [Source:HGNC Symbol;Ac
14	ZFP1	1.6	-0.33	0.3	ZFP1 ZFP1 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:2
15	ZNF75A	1.6	-0.61	0.35	ZNF75A zinc finger protein 75a [Source:HGNC Symbol;Acc:HGNC:13
16	GLS2	1.59	-0.14	0.29	GLS2 glutaminase 2 (liver, mitochondrial) [Source:HGNC Symbol;A
17	HSPBAP1	1.58	-0.39	0.36	HSPBAP1 HSPB (heat shock 27kDa) associated protein 1 [Source:HGN
18	DEPDC5	1.58	-0.65	0.28	DEPDC5 DEP domain containing 5 [Source:HGNC Symbol;Acc:HGNC
19	KPNA5	1.56	-0.35	0.26	KPNA5 karyopherin alpha 5 (importin alpha 6) [Source:HGNC Symbc
20	SMOX	1.56	-0.19	0.27	SMOX spermine oxidase [Source:HGNC Symbol;Acc:HGNC:15862]

Geneset Overrepresentation

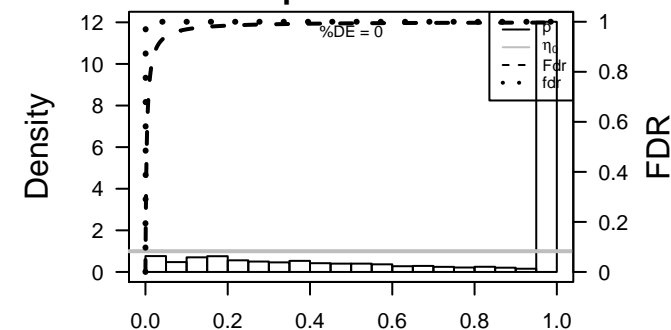
Rank	p-value	#in/all	Geneset
1	8e-13	155 / 9482	Colon TssA_Colon
2	3e-11	151 / 9330	Brain Overlap_fetal_midbrain_ReprPC
3	6e-10	123 / 6929	LympL HOPP_Txn_elongation
4	2e-09	140 / 8580	Colon TxWk_Colon
5	6e-09	137 / 8415	Colon Quies3_Colon
6	8e-09	143 / 9027	Colon Tx_Colon
7	3e-08	107 / 5940	Brain Overlap_fetal_midbrain_HetRpts
8	9e-08	125 / 7592	LympL HOPP_Active_promoter
9	5e-07	94 / 5184	LympL HOPP_Txn_transition
10	8e-07	38 / 1383	TF ICGC_Six5_targets
11	1e-05	79 / 4385	TF ICGC_Atf2_targets
12	2e-05	150 / 10605	CC intracellular
13	3e-05	113 / 7209	LympL HOPP_Weak_promoter
14	3e-05	73 / 4032	TF ICGC_Creb1_targets
15	3e-05	133 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
16	4e-05	124 / 8205	CC cytoplasm
17	4e-05	18 / 510	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP
18	5e-05	4 / 18	BP phospholipid translocation
19	9e-05	142 / 9988	CC organelle
20	1e-04	131 / 9020	Brain Overlap_fetal_midbrain_ReprPCWk
21	2e-04	81 / 4829	TF ICGC_Nficsc81335_targets
22	2e-04	31 / 1326	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
23	2e-04	75 / 4414	TF ICGC_Bclaf101388_targets
24	3e-04	47 / 2391	TF ICGC_Pbx3_targets
25	3e-04	68 / 3924	TF ICGC_Zeb1_targets
26	3e-04	43 / 2136	TF ICGC_GabpPcr2_targets
27	3e-04	32 / 1418	TF ICGC_Ets1_targets
28	3e-04	78 / 4689	TF ICGC_Taf1_targets
29	3e-04	16 / 503	GSE/ MARTINEZ_RB1_AND_TP53_TARGETS_UP
30	4e-04	16 / 508	GSE/ MARTINEZ_TP53_TARGETS_UP
31	4e-04	80 / 4879	TF ICGC_Pmlsc71910_targets
32	4e-04	4 / 30	BP phospholipid transport
33	6e-04	7 / 121	miRN hsa-miR-212
34	6e-04	11 / 285	BP organelle organization
35	6e-04	134 / 9528	Brain Overlap_fetal_midbrain_Quies
36	7e-04	3 / 15	MF phospholipid-translocating ATPase activity
37	7e-04	142 / 10290	Color TssWk_Colon
38	8e-04	4 / 35	GSE/ KEGG_SNARE_INTERACTIONS_IN_VESICULAR_TRANSPORT
39	8e-04	79 / 4909	TF ICGC_Stat5_targets
40	9e-04	15 / 494	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_DN

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: y

metagenes = 9
genes = 89

<r> metagenes = 0.97
<r> genes = 0.1
beta: r2= 1.51 / log p= -Inf

samples with spot = 11 (12 %)
MSC2 : 3 (12 %)
MSC3 : 8 (32 %)

Spot Genelist

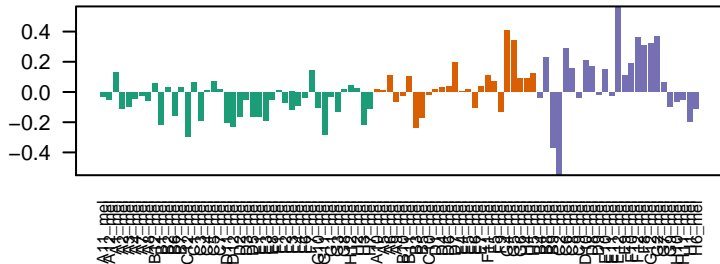
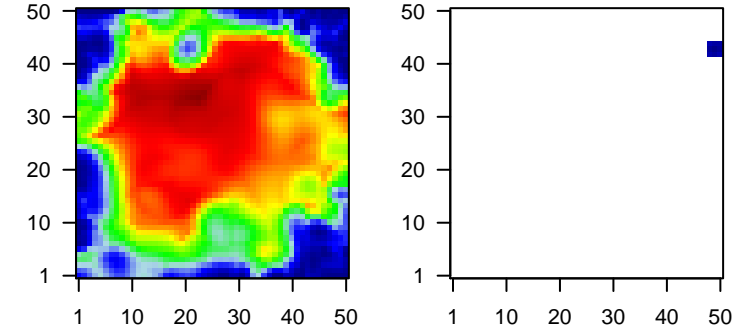
Rank	ID	max e	r	min e	Description
					Symbol
1	LIN37	1.83	-0.13	0.35	LIN37 lin-37 DREAM MuvB core complex component [Source:HGNC]
2	USP19	1.74	-0.4	0.29	USP19 ubiquitin specific peptidase 19 [Source:HGNC Symbol;Acc:HGNC:1287]
3	STYXL1	1.73	-0.64	0.39	STYXL1 serine/threonine/tyrosine interacting-like 1 [Source:HGNC Symbol;Acc:HGNC:1287]
4	RNF146	1.7	-0.34	0.33	RNF146 ring finger protein 146 [Source:HGNC Symbol;Acc:HGNC:1287]
5	LRRC23	1.64	-0.21	0.33	LRRC23 leucine rich repeat containing 23 [Source:HGNC Symbol;Acc:HGNC:1287]
6	LZTR1	1.57	-0.45	0.26	LZTR1 leucine-zipper-like transcription regulator 1 [Source:HGNC Symbol;Acc:HGNC:1287]
7	BCAS3	1.55	-0.48	0.37	BCAS3 breast carcinoma amplified sequence 3 [Source:HGNC Symbol;Acc:HGNC:1287]
8	PARP6	1.54	-0.61	0.24	PARP6 poly (ADP-ribose) polymerase family, member 6 [Source:HGNC Symbol;Acc:HGNC:1287]
9	CDC16	1.54	-0.74	0.25	CDC16 cell division cycle 16 [Source:HGNC Symbol;Acc:HGNC:1287]
10	RUFY1	1.52	-0.52	0.24	RUFY1 RUN and FYVE domain containing 1 [Source:HGNC Symbol;Acc:HGNC:1287]
11	RAB4B	1.51	-0.49	0.28	RAB4B RAB4B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:1287]
12	CCT6B	1.51	-0.23	0.23	CCT6B chaperonin containing TCP1, subunit 6B (zeta 2) [Source:HGNC Symbol;Acc:HGNC:1287]
13	FAM219B	1.51	-0.68	0.23	FAM219B family with sequence similarity 219, member B [Source:HGNC Symbol;Acc:HGNC:1287]
14	CDAN1	1.49	-0.14	0.31	CDAN1 codanin 1 [Source:HGNC Symbol;Acc:HGNC:1287]
15	ZNF189	1.47	-0.25	0.33	ZNF189 zinc finger protein 189 [Source:HGNC Symbol;Acc:HGNC:1287]
16	ZNF10	1.46	-0.32	0.22	ZNF10 zinc finger protein 10 [Source:HGNC Symbol;Acc:HGNC:1287]
17	GMPR	1.45	-0.32	0.35	GMPR guanosine monophosphate reductase [Source:HGNC Symbol;Acc:HGNC:1287]
18	HMGCL	1.45	-0.6	0.32	HMGCL 3-hydroxymethyl-3-methylglutaryl-CoA lyase [Source:HGNC Symbol;Acc:HGNC:1287]
19	NKRF	1.44	-0.3	0.23	NKRF NFKB repressing factor [Source:HGNC Symbol;Acc:HGNC:1287]
20	KDM5C	1.44	-0.73	0.3	KDM5C lysine (K)-specific demethylase 5C [Source:HGNC Symbol;Acc:HGNC:1287]

Geneset Overrepresentation

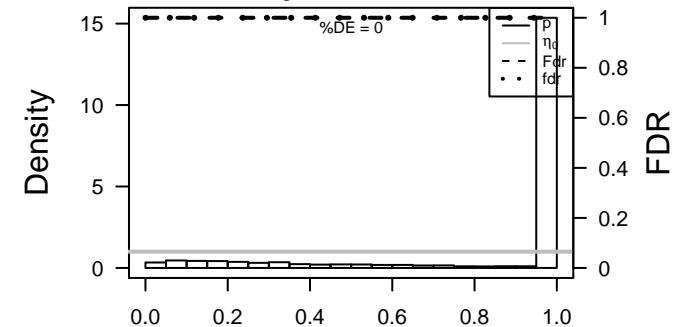
Rank	p-value	#in/all	Geneset
1	3e-08	67 / 6929	Lymph HOPP_Txn_elongation
2	2e-07	78 / 9330	Brain Overlap_fetal_midbrain_ReprPC
3	3e-07	74 / 8580	Colon TxWk_Colon
4	4e-07	78 / 9482	Colon TssA_Colon
5	8e-07	68 / 7592	Lymph HOPP_Active_promoter
6	1e-06	4 / 14	BP nucleotide metabolic process
7	1e-06	75 / 9027	Colon Tx_Colon
8	3e-05	72 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
9	6e-05	54 / 5940	Brain Overlap_fetal_midbrain_HetRpts
10	1e-04	11 / 478	BP protein transport
11	1e-04	77 / 10290	Colon TssWk_Colon
12	2e-04	48 / 5184	Lymph HOPP_Txn_transition
13	2e-04	60 / 7209	Lymph HOPP_Weak_promoter
14	5e-04	8 / 310	GSE/ DAZARD_RESPONSE_TO_UV_NHEK_DN
15	1e-03	65 / 8415	Colon Quies3_Colon
16	2e-03	4 / 87	GSE/ BROWNE_HCMV_INFECTION_10HR_UP
17	2e-03	2 / 11	BP positive regulation of protein sumoylation
18	3e-03	2 / 14	BP negative regulation of endoplasmic reticulum stress-induced intrinsic apoptosis
19	3e-03	5 / 166	miRN hsa-miR-580
20	4e-03	3 / 52	GSE/ IKEDA_MIR1_TARGETS_UP
21	4e-03	4 / 109	miRN hsa-miR-499-5p
22	4e-03	36 / 4032	TF ICGC_Creb1_targets
23	5e-03	2 / 17	BP positive regulation of intracellular protein transport
24	5e-03	2 / 17	GSE/ REACTOME_FORMATION_OF_INCISION_COMPLEX_IN_GG_NER
25	5e-03	3 / 56	GSE/ CASTELLANO_NRAS_TARGETS_UP
26	5e-03	2 / 18	BP nucleotide-excision repair, DNA damage removal
27	6e-03	2 / 19	BP positive regulation of filopodium assembly
28	6e-03	2 / 19	GSE/ TOMLINS_METASTASIS_DN
29	6e-03	6 / 271	GSE/ ZHANG_TLX_TARGETS_60HR_UP
30	6e-03	9 / 555	GSE/ SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_DN
31	6e-03	3 / 62	GSE/ NATSUME_RESPONSE_TO_INTERFERON_BETA_UP
32	6e-03	2 / 20	GSE/ NAKAJIMA_EOSINOPHIL
33	6e-03	2 / 20	GSE/ MCCABE_HOXC6_TARGETS_CANCER_DN
34	7e-03	46 / 5693	Lymph HOPP_Weak_enhancer
35	8e-03	16 / 1383	TF ICGC_Six5_targets
36	8e-03	5 / 206	GSE/ VANOEVLEEN_MYOGENESIS_SIN3A_TARGETS
37	8e-03	4 / 132	miRN hsa-miR-194
38	8e-03	3 / 69	GSE/ MORI_PRE_BI_LYMPHOCYTE_DN
39	9e-03	3 / 70	GSE/ PURBEY_TARGETS_OF_CTBP1_AND_SATB1_UP
40	9e-03	3 / 71	GSE/ KAYO_CALORIE_RESTRICTION_MUSCLE_DN

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: z

metagenes = 22
genes = 331

<r> metagenes = 0.96
<r> genes = 0.16
beta: r2= 3.28 / log p= -Inf

samples with spot = 18 (19.6 %)
MSC1 : 9 (21.4 %)
MSC2 : 9 (36 %)

Spot Genelist

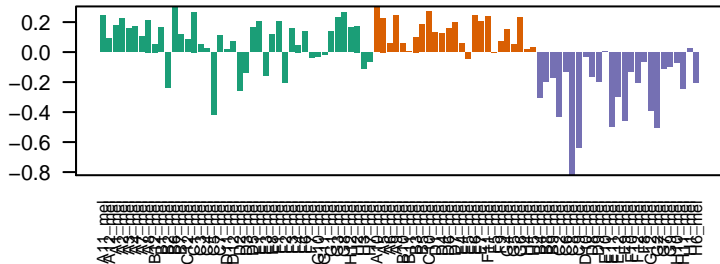
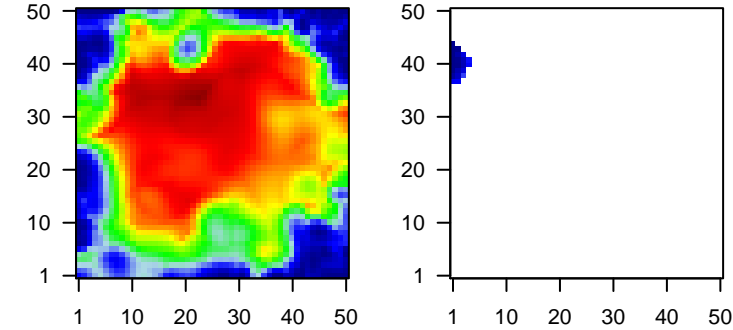
Rank	ID	max e	r	min e	Description
1	ZNF577	1.94	-0.21	0.27	ZNF577 zinc finger protein 577 [Source:HGNC Symbol;Acc:HGNC:28]
2	BCS1L	1.71	-0.91	0.27	BCS1L BCS1 (ubiquinol-cytochrome c reductase) synthesis-like [Sou
3	GAPDHS	1.71	-1.17	0.59	GAPDHSglyceraldehyde-3-phosphate dehydrogenase, spermatogenin
4	ST6GALNAC3	1.69	-0.39	0.32	ST6GALNAC3(alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-
5	TRMT1	1.65	-0.71	0.36	TRMT1 tRNA methyltransferase 1 homolog (S. cerevisiae) [Source:HG
6	NMRK2	1.63	-1.2	0.71	NMRK2 nicotinamide riboside kinase 2 [Source:HGNC Symbol;Acc:HG
7	NT5DC1	1.63	-0.93	0.28	NT5DC1 5'-nucleotidase domain containing 1 [Source:HGNC Symbol;
8	SEPSECS	1.63	-0.31	0.32	SEPSECS(e-p (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA syr
9	WIPF3	1.62	-0.29	0.33	WIPF3 WAS/WASL interacting protein family, member 3 [Source:HG
10	ANO2	1.61	-0.48	0.34	ANO2 anoctamin 2, calcium activated chloride channel [Source:HG
11	CAPG	1.58	-0.72	0.39	CAPG capping protein (actin filament), gelsolin-like [Source:HGNC :
12	MAPK10	1.57	-0.69	0.44	MAPK10 mitogen-activated protein kinase 10 [Source:HGNC Symbol;
13	SNAP29	1.56	-0.44	0.3	SNAP29 synaptosomal-associated protein, 29kDa [Source:HGNC Syr
14	ISY1	1.53	-0.64	0.24	ISY1 ISY1 splicing factor homolog (S. cerevisiae) [Source:HGNC S
15	SNX8	1.52	-0.75	0.39	SNX8 sorting nexin 8 [Source:HGNC Symbol;Acc:HGNC:14972]
16	TOE1	1.52	-0.48	0.26	TOE1 target of EGR1, member 1 (nuclear) [Source:HGNC Symbol;
17	FAM193B	1.52	-0.7	0.27	FAM193Bfamily with sequence similarity 193, member B [Source:HGNC
18	IFI35	1.51	-0.5	0.32	IFI35 interferon-induced protein 35 [Source:HGNC Symbol;Acc:HC
19	MAP3K6	1.5	-0.36	0.35	MAP3K6 mitogen-activated protein kinase kinase kinase 6 [Source:HC
20	NENF	1.49	-0.83	0.33	NENF neudesin neurotrophic factor [Source:HGNC Symbol;Acc:HG

Geneset Overrepresentation

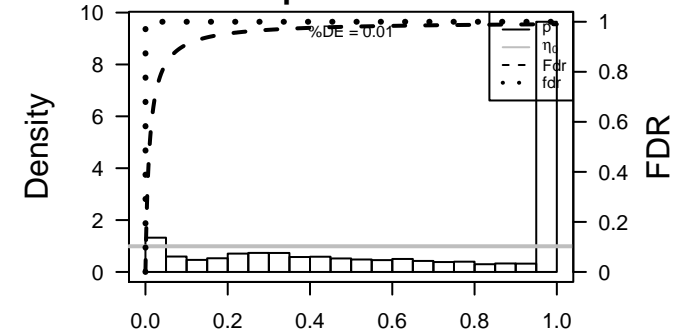
Rank	p-value	#in/all	Geneset
1	9e-19	32 / 198	HM HALLMARK_OXIDATIVE_PHOSPHORYLATION
2	7e-17	40 / 368	GSE# STEIN_ESRRA_TARGETS_UP
3	2e-16	84 / 1468	CC mitochondrion
4	1e-15	231 / 7203	Colon TssF_Colon
5	7e-15	39 / 401	CC mitochondrial inner membrane
6	2e-14	43 / 500	GSE# STEIN_ESRRA_TARGETS
7	6e-12	35 / 405	GSE# MOOHTA_HUMAN_MITODB_6_2002
8	4e-11	48 / 756	GSE# WEI_MYCN_TARGETS_WITH_E_BOX
9	7e-11	239 / 8205	CC cytoplasm
10	7e-11	33 / 398	GSE# MOOHTA_PGC
11	8e-11	34 / 421	GSE# MOOHTA_MITOCHONDRIA
12	9e-11	264 / 9482	Colon TssA_Colon
13	9e-10	28 / 325	GSE# PENG_GLUTAMINE_DEPRIVATION_DN
14	1e-09	51 / 925	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
15	8e-09	33 / 478	GSE# STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
16	1e-08	22 / 233	GSE# PENG_RAPAMYCIN_RESPONSE_DN
17	2e-08	74 / 1730	BP small molecule metabolic process
18	4e-08	10 / 45	MF NAD binding
19	5e-08	34 / 541	BP oxidation-reduction process
20	6e-08	54 / 1126	GSE# BLALOCK_ALZHEIMERS_DISEASE_DN
21	6e-08	246 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
22	7e-08	246 / 9027	Color Tx_Colon
23	8e-08	31 / 475	GSE# ONKEN_UVEAL_MELANOMA_DN
24	1e-07	8 / 28	BP tricarboxylic acid cycle
25	1e-07	8 / 28	GSE# KEGG_CITRATE_CYCLE_TCA_CYCLE
26	4e-07	10 / 57	HM HALLMARK_MYC_TARGETS_V2
27	5e-07	6 / 15	GSE# MOOHTA_TCA
28	5e-07	42 / 831	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
29	5e-07	37 / 685	GSE# KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_UP
30	6e-07	25 / 363	GSE# RUTELLA_RESPONSE_TO_HGF_UP
31	9e-07	9 / 48	GSE# REACTOME_MITOCHONDRIAL_PROTEIN_IMPORT
32	1e-06	17 / 188	HM HALLMARK_ADIPOGENESIS
33	1e-06	59 / 1400	TF ICGC_Myc_targets
34	1e-06	10 / 63	Glio Stuehler_Proteins_up_in_STS
35	1e-06	6 / 17	BP mitochondrial respiratory chain complex I assembly
36	2e-06	81 / 2193	CC extracellular exosome
37	2e-06	22 / 312	GSE# WONG_EMBRYONIC_STEM_CELL_CORE
38	2e-06	14 / 136	GSE# IVANOVA_HEMATOPOIESIS_INTERMEDIATE_PROGENITOR
39	2e-06	23 / 338	GSE# DAIRKEE_TERT_TARGETS_UP
40	2e-06	272 / 10605	CC intracellular

Overview Map

Spot



p-values



Rank	p-value	#in/all
1	0.000000	13
2	0.000000	13
3	0.000000	13
4	0.000000	13
5	0.000000	13
6	0.000000	13
7	0.000000	13
8	0.000000	13
9	0.000000	13
10	0.000000	13
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13	0.000000	13
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16	0.000000	13
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19	0.000000	13
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21	0.000000	13
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25	0.000000	13
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27	0.000000	13
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31	0.000000	13
32	0.000000	13
33	0.000000	13
34	0.000000	13
35	0.000000	13
36	0.000000	13
37	0.000000	13
38	0.000000	13
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40	0.000000	13
41	0.000000	13
42	0.000000	13
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93	0.000000	13
94	0.000000	13
95	0.000000	13
96	0.000000	13
97	0.000000	13
98	0.000000	13
99	0.000000	13
100	0.000000	13

Geneset	#in/all
downregulating_genes_meth_DOWN	13
HORVATH_age_genes_meth_UP	13
TESCHENDORFF_age_hypermethylated	13

Rank	p-value	#in/all
1	0.000000	34
2	0.000000	541
3	0.000000	7
4	0.000000	13
5	0.000000	22
6	0.000000	18
7	0.000000	11
8	0.000000	47
9	0.000000	37
10	0.000000	55
11	0.000000	104
12	0.000000	18
13	0.000000	237
14	0.000000	67
15	0.000000	135
16	0.000000	23

Geneset	#in/all
small molecule metabolic process	34
oxidation-reduction process	541
tricarboxylic acid cycle	7
mitochondrial respiratory chain complex I assembly	13
melanin biosynthetic process	22
mitochondrial organization	18
melanocyte differentiation	11
generation of precursor metabolites and energy	47
protein targeting to mitochondrion	37
gluconeogenesis	55
cellular amino acid metabolic process	104
response to ethanol	18
glucose metabolic process	237
L-oxoglutarate metabolic process	67
cellular amino acid biosynthetic process	135
metabolic process	23
pigmentation	135
cellular metabolic process	23
translation	23
secondary metabolic process	23

Rank	p-value	#in/all
1	0.000000	39
2	0.000000	401
3	0.000000	29205
4	0.000000	7
5	0.000000	10805
6	0.000000	9988
7	0.000000	13
8	0.000000	135
9	0.000000	24
10	0.000000	456
11	0.000000	120
12	0.000000	120
13	0.000000	14
14	0.000000	246
15	0.000000	317
16	0.000000	317
17	0.000000	474
18	0.000000	89
19	0.000000	745
20	0.000000	1616
21	0.000000	63
22	0.000000	24

Geneset	#in/all
mitochondrial inner membrane	39
cytoplasm	401
extracellular exosome	29205
intracellular	7
organelle	10805
melanosome	9988
myelin sheath	13
lysosome	135
vacuole	24
mitochondrial outer membrane	456
cytosol	120
mitochondrial matrix	120
extracellular region	14
cytoplasmic membrane-bounded vesicle	246
lysosomal lumen	317
endosome	317
mitochondrial intermembrane space	474
mitochondrial ribosome	89

Rank	p-value	#in/all
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3	0.000000	11
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100	0.000000	365

Geneset	#in/all
Overlap_fetal_midbrain_K9K27me3	32
Overlap_fetal_midbrain_ReprPC	343
Mid_Frontal_Lobe_ZNF	11
Overlap_fetal_midbrain_Quies	365
Mid_Frontal_Lobe_Het	365
Overlap_fetal_midbrain_HetRpts	365
Mid_Frontal_Lobe_HetRpts	365
Fetal_HetRpts	365
Fetal_ZNF	365
Mid_Frontal_Lobe_TssA	365
Fetal_Quies	365
Overlap_fetal_midbrain_Tx	365
Overlap_fetal_midbrain_ReprPCWk	365
Overlap_fetal_midbrain_ZNF	365
Fetal_ReprPCWk	365
Fetal_ReprC	365
Fetal_ReprC	365
Fetal_ReprC	365
Fetal_ReprC	365
Mid_Frontal_Lobe_ReprPC	365

Rank	p-value	#in/all
1	0.000000	16
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5	0.000000	98
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81	0.0	

Underexpression Spots

Spot Summary: a1

metagenes = 16
genes = 202

<r> metagenes = 0.91
<r> genes = 0.11
beta: r2= 1.93 / log p= -Inf

samples with spot = 13 (14.1 %)
MSC2 : 9 (36 %)
MSC3 : 4 (16 %)

Spot Genelist

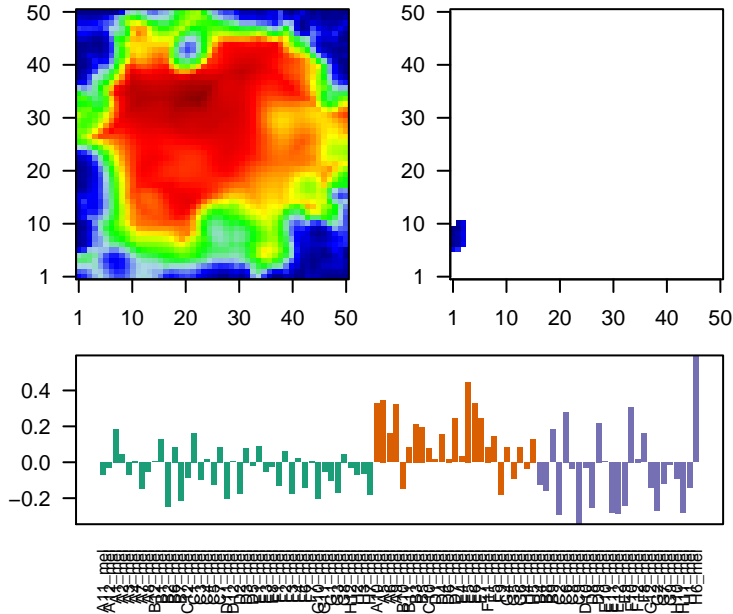
Rank	ID	max e	r	min e	Description
1	POPODC2	2.06	-0.33	0.46	POPODC2 popeye domain containing 2 [Source:HGNC Symbol;Acc:HGNC:10000]
2	RNF40	1.97	-0.54	0.27	RNF40 ring finger protein 40, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:HGNC:10000]
3	KCNQ5	1.87	-0.46	0.35	KCNQ5 potassium channel, voltage gated KQT-like subfamily Q, member 5 [Source:HGNC Symbol;Acc:HGNC:10000]
4	FLVCR2	1.85	-0.18	0.36	FLVCR2 feline leukemia virus subgroup C cellular receptor family, member 2 [Source:HGNC Symbol;Acc:HGNC:10000]
5	CC2D1B	1.84	-0.41	0.22	CC2D1B coiled-coil and C2 domain containing 1B [Source:HGNC Symbol;Acc:HGNC:10000]
6	PLA2G4B	1.82	-0.16	0.33	PLA2G4B phospholipase A2, group IVB (cytosolic) [Source:HGNC Symbol;Acc:HGNC:10000]
7	HESX1	1.78	-0.08	0.46	HESX1 HESX homeobox 1 [Source:HGNC Symbol;Acc:HGNC:4877]
8	KRTAP19-1	1.78	-0.78	0.4	KRTAP19 keratin associated protein 19-1 [Source:HGNC Symbol;Acc:HGNC:10000]
9	TRMT2A	1.77	-0.13	0.32	TRMT2A tRNA methyltransferase 2 homolog A (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:10000]
10	HS1BP3	1.76	-0.38	0.28	HS1BP3 HCLS1 binding protein 3 [Source:HGNC Symbol;Acc:HGNC:10000]
11	GAS8	1.75	-0.56	0.29	GAS8 growth arrest-specific 8 [Source:HGNC Symbol;Acc:HGNC:10000]
12	PRDM10	1.72	-0.23	0.39	PRDM10 PR domain containing 10 [Source:HGNC Symbol;Acc:HGNC:10000]
13	E4F1	1.71	-0.16	0.32	E4F1 E4F transcription factor 1 [Source:HGNC Symbol;Acc:HGNC:10000]
14	C1orf145	1.69	-0.19	0.38	C1orf145 chromosome 1 open reading frame 145 [Source:HGNC Symbol;Acc:HGNC:10000]
15	TXNDC16	1.69	-0.35	0.28	TXNDC16 thioredoxin domain containing 16 [Source:HGNC Symbol;Acc:HGNC:10000]
16	IFI30	1.68	-0.18	0.35	IFI30 interferon, gamma-inducible protein 30 [Source:HGNC Symbol;Acc:HGNC:10000]
17	PLA1A	1.68	-0.26	0.34	PLA1A phospholipase A1 member A [Source:HGNC Symbol;Acc:HGNC:10000]
18	CTC-534A2.2	1.67	-0.37	0.26	CTC-534A2.2 chromosome 5 centromeric region 2.2 [Source:HGNC Symbol;Acc:HGNC:10000]
19	ARMCX5	1.66	-0.33	0.31	ARMCX5 armadillo repeat containing, X-linked 5 [Source:HGNC Symbol;Acc:HGNC:10000]
20	FUBP3	1.66	-0.52	0.3	FUBP3 far upstream element (FUSE) binding protein 3 [Source:HGNC Symbol;Acc:HGNC:10000]

Geneset Overrepresentation

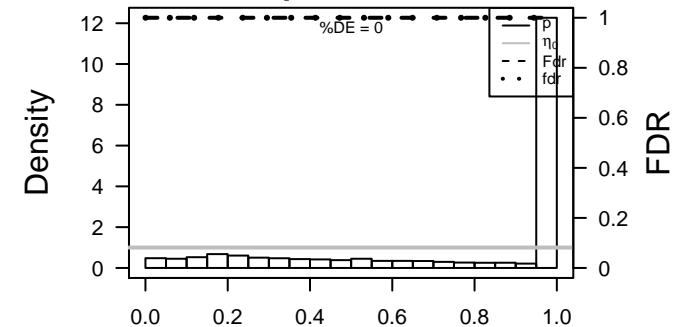
Rank	p-value	#in/all	Geneset
1	2e-07	160 / 9330	Brain Overlap_fetal_midbrain_ReprPC
2	4e-06	112 / 5940	Brain Overlap_fetal_midbrain_HetRpts
3	6e-05	143 / 8580	Colon TxWk_Colon
4	2e-04	5 / 41	MF ATPase binding
5	3e-04	146 / 9027	Colon Tx_Colon
6	3e-04	36 / 1468	CC mitochondrion
7	4e-04	3 / 11	BP fatty acid oxidation
8	4e-04	7 / 100	miRN hsa-miR-574-5p
9	5e-04	3 / 12	GSE/ REACTOME_HYALURONAN_METABOLISM
10	7e-04	144 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
11	1e-03	33 / 1394	GSE/ ZWANG_TRANSIENTLY_UP_BY_1ST_EGF_PULSE_ONLY
12	1e-03	2 / 4	GSE/ KERLEY_RESPONSE_TO_CISPLATIN_DN
13	1e-03	101 / 5880	Colon TssD2_Colon
14	2e-03	115 / 6929	Lymph HOPP_Txn_elongation
15	2e-03	3 / 18	BP peroxisome organization
16	2e-03	3 / 18	BP phosphatidylinositol metabolic process
17	2e-03	3 / 19	MF cAMP binding
18	3e-03	8 / 174	HM HALLMARK_HEME_METABOLISM
19	3e-03	7 / 140	GSE/ ASTON_MAJOR_DEPRESSIVE_DISORDER_DN
20	3e-03	9 / 220	BP cofactor metabolic process
21	4e-03	3 / 23	BP hyaluronan metabolic process
22	4e-03	6 / 109	CC peroxisome
23	4e-03	4 / 48	CC peroxisomal membrane
24	4e-03	8 / 188	HM HALLMARK_ADIPOGENESIS
25	5e-03	5 / 81	CC late endosome membrane
26	5e-03	5 / 81	MF protein N-terminus binding
27	5e-03	146 / 9482	Colon TssA_Colon
28	5e-03	140 / 9020	Brain Overlap_fetal_midbrain_ReprPCWk
29	5e-03	4 / 52	BP fatty acid metabolic process
30	6e-03	132 / 8415	Colon Quies3_Colon
31	6e-03	3 / 27	GSE/ REACTOME_ABC_FAMILY_PROTEINS_MEDIATED_TRANSPORT
32	6e-03	3 / 27	GSE/ WANG_RESPONSE_TO_ANDROGEN_UP
33	6e-03	5 / 85	GSE/ HUMMERICH_SKIN_CANCER_PROGRESSION_DN
34	6e-03	8 / 200	GSE/ KYNG_WERNER_SYNDROM_AND_NORMAL_AGING_DN
35	6e-03	146 / 9528	Brain Overlap_fetal_midbrain_Quies
36	7e-03	49 / 2576	CC membrane
37	7e-03	4 / 56	GSE/ MARSON_FOXP3_TARGETS_UP
38	7e-03	14 / 494	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_DN
39	8e-03	2 / 10	BP cellular response to electrical stimulus
40	8e-03	2 / 10	BP cellular response to epinephrine stimulus

Overview Map

Spot



p-values



Rank	p-value	#in/all	Geneset
1	0.000000	131	downregulated genes meth DOWN
2	0.000000	131	HORVAILH_down_genes meth UP
3	0.000000	131	TESCHENDORFF_age_hypermethylated
4	0.000000	131	
5	0.000000	131	
6	0.000000	131	
7	0.000000	131	
8	0.000000	131	
9	0.000000	131	
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100	0.000000	131	

Rank	p-value	#in/all	Geneset
1	0.000000	131	geneset_nanostring
2	0.000000	131	GENESET_modules
3	0.000000	131	GENESET_modules
4	0.000000	131	COMMON_CANCER_GENES
5	0.000000	131	PanCan_RAS_geneset_nanostring
6	0.000000	131	GENESET_modules
7	0.000000	131	Geneset_nanostring
8	0.000000	131	ZHANG_MM_UP
9	0.000000	131	SHANG_BCL6-index2
10	0.000000	131	SHANG_DNArepair_geneset_nanostring
11	0.000000	131	SOTIRIOTI_MMP20_SUPRA
12	0.000000	131	SOTIRIOTI_MMP20_SUPRA_CANCER_GRADE_1_VS_3_DN
13	0.000000	131	SHANG_AK1F_geneset_nanostring
14	0.000000	131	LIU_PROSTATE_CANCER_DN
15	0.000000	131	SHANG_HES5_MM_high_risk
16	0.000000	131	SHANG_BCL6-index2
17	0.000000	131	Lemcke_Normal_vs_Adenoma
18	0.000000	131	PanCan_Fox_geneset_nanostring
19	0.000000	131	Lemcke_Colonic_Inflammation
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89	0.000000	131	Colon
90	0.000000	131	Colon
91	0.000000	131	Colon
92	0.000000	131	Colon
93	0.000000	131	Colon
94	0.000000	131	Colon
95	0.000000	131	Colon
96	0.000000	131	Colon
97	0.000000	131	Colon
98	0.000000	131	Colon
99	0.000000	131	Colon
100	0.000000	131	Colon

Rank	p-value	#in/all	Geneset
1	0.000000	131	HYALURONAN METABOLISM
2	0.000000	131	ZHANG_TRANSFERRIN_UP_PULSE_ONLY
3	0.000000	131	ASPERGILLIOSIS
4	0.000000	131	ASPERGILLIOSIS
5	0.000000	131	ASPERGILLIOSIS
6	0.000000	131	ASPERGILLIOSIS
7	0.000000	131	ASPERGILLIOSIS
8	0.000000	131	ASPERGILLIOSIS
9	0.000000	131	ASPERGILLIOSIS
10	0.000000	131	ASPERGILLIOSIS
11	0.000000	131	ASPERGILLIOSIS
12	0.000000	131	ASPERGILLIOSIS
13	0.000000		

Underexpression Spots

Spot Summary: b1

metagenes = 24
genes = 395

<r> metagenes = 0.91
<r> genes = 0.26
beta: r2= 8.63 / log p= -Inf

samples with spot = 29 (31.5 %)
MSC1 : 28 (66.7 %)
MSC3 : 1 (4 %)

Spot Genelist

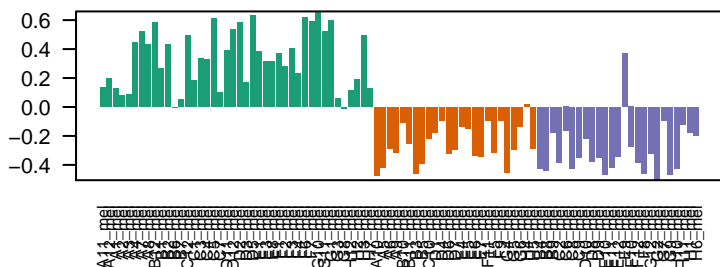
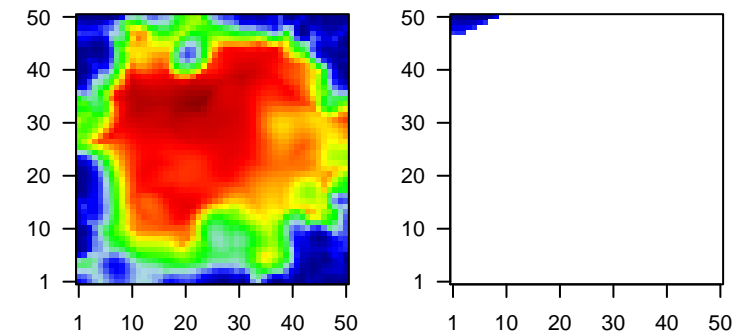
Rank	ID	max e	r	min e	Description
1	CEP97	2.41	-1.21	0.26	CEP97 centrosomal protein 97kDa [Source:HGNC Symbol;Acc:HGNC:10000]
2	UBE2C	2.22	-1.05	0.87	UBE2C ubiquitin-conjugating enzyme E2C [Source:HGNC Symbol;Acc:HGNC:10000]
3	NUF2	2.2	-0.57	0.84	NUF2, NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:10000]
4	CDK1	2.16	-1.11	0.84	CDK1 cyclin-dependent kinase 1 [Source:HGNC Symbol;Acc:HGNC:10000]
5	CCNB1	2.14	-1.08	0.66	CCNB1 cyclin B1 [Source:HGNC Symbol;Acc:HGNC:1579]
6	NEK2	2.14	-0.38	0.68	NEK2 NIMA-related kinase 2 [Source:HGNC Symbol;Acc:HGNC:7700]
7	SMCO4	2.1	-0.21	0.34	SMCO4 single-pass membrane protein with coiled-coil domains 4 [Source:HGNC Symbol;Acc:HGNC:10000]
8	PLK1	2.09	-0.46	0.65	PLK1 polo-like kinase 1 [Source:HGNC Symbol;Acc:HGNC:9077]
9	AURKB	2.03	-0.61	0.79	AURKB aurora kinase B [Source:HGNC Symbol;Acc:HGNC:11390]
10	CKAP2L	2.01	-0.57	0.84	CKAP2L cytoskeleton associated protein 2-like [Source:HGNC Symbol;Acc:HGNC:10000]
11	CDC20	2	-0.67	0.71	CDC20 cell division cycle 20 [Source:HGNC Symbol;Acc:HGNC:17200]
12	KIF20A	1.98	-0.39	0.74	KIF20A kinesin family member 20A [Source:HGNC Symbol;Acc:HGNC:10000]
13	NDC80	1.96	-0.62	0.87	NDC80 NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:10000]
14	DLGAP5	1.93	-0.47	0.78	DLGAP5 discs, large (Drosophila) homolog-associated protein 5 [Source:HGNC Symbol;Acc:HGNC:10000]
15	PRR11	1.93	-0.5	0.75	PRR11 proline rich 11 [Source:HGNC Symbol;Acc:HGNC:25619]
16	RRM2	1.92	-0.76	0.86	RRM2 ribonucleotide reductase M2 [Source:HGNC Symbol;Acc:HGNC:10000]
17	SGOL1	1.91	-0.72	0.75	SGOL1 shugoshin-like 1 (S. pombe) [Source:HGNC Symbol;Acc:HGNC:10000]
18	HIST1H4E	1.9	-0.46	0.45	HIST1H4E histone cluster 1, H4e [Source:HGNC Symbol;Acc:HGNC:4700]
19	CDCA3	1.88	-0.49	0.83	CDCA3 cell division cycle associated 3 [Source:HGNC Symbol;Acc:HGNC:10000]
20	RHEBL1	1.86	-0.2	0.55	RHEBL1 Ras homolog enriched in brain like 1 [Source:HGNC Symbol;Acc:HGNC:10000]

Geneset Overrepresentation

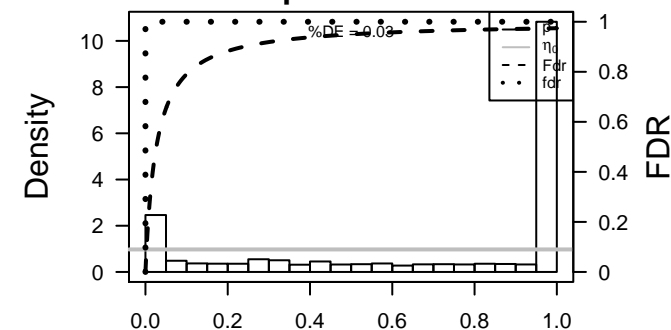
Rank	p-value	#in/all	Geneset
1	1e-99	207 / 1110	BP cell cycle
2	1e-99	130 / 412	BP mitotic cell cycle
3	1e-99	122 / 142	Glio WILLSCHEER_GBM_Verhaak-CL_up (C)
4	1e-99	108 / 197	HM HALLMARK_E2F_TARGETS
5	1e-99	12 / 16	Cancr SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
6	1e-99	250 / 1192	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
7	1e-99	219 / 1251	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_DN
8	1e-99	98 / 139	GSE/ ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
9	1e-99	128 / 390	GSE/ PUJANA_BRCA2_PCC_NETWORK
10	1e-99	180 / 944	GSE/ NUYTEN_EZH2_TARGETS_DN
11	1e-99	166 / 616	GSE/ BENPORATH_CYCLING_GENES
12	1e-99	189 / 700	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
13	1e-99	120 / 327	GSE/ BLUM_RESPONSE_TO_SALIRASIB_DN
14	1e-99	94 / 145	GSE/ CHANG_CYCLING_GENES
15	1e-99	143 / 436	GSE/ SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
16	1e-99	121 / 267	GSE/ ZHANG_TLX_TARGETS_60HR_DN
17	1e-99	140 / 242	GSE/ KOBAYASHI_EGFR_SIGNALING_24HR_DN
18	1e-99	171 / 305	GSE/ DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
19	1e-99	227 / 550	GSE/ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
20	1e-97	132 / 505	GSE/ BERENJENO_TRANSFORMED_BY_RHOA_UP
21	9e-94	86 / 162	GSE/ GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP
22	3e-93	127 / 489	Cancr Lembcke_Normal vs Adenoma
23	4e-93	78 / 124	GSE/ ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR
24	2e-92	116 / 388	GSE/ REACTOME_CELL_CYCLE
25	8e-91	83 / 155	GSE/ HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP
26	9e-91	70 / 96	GSE/ CROONQUIST_IL6_DEPRIVATION_DN
27	3e-88	103 / 301	GSE/ REACTOME_CELL_CYCLE_MITOTIC
28	8e-88	72 / 110	GSE/ WHITEFORD_PEDIATRIC_CANCER_MARKERS
29	1e-86	110 / 373	GSE/ VECCHI_GASTRIC_CANCER_EARLY_UP
30	8e-86	100 / 291	GSE/ HORIUCHI_WTAP_TARGETS_DN
31	2e-85	97 / 270	GSE/ BASAKI_YBX1_TARGETS_UP
32	4e-84	66 / 93	GSE/ KONG_E2F3_TARGETS
33	8e-84	122 / 517	GSE/ FEVR_CTNNB1_TARGETS_DN
34	9e-84	139 / 724	GSE/ PUJANA_CHEK2_PCC_NETWORK
35	4e-83	67 / 99	GSE/ BURTON_ADIPOGENESIS_3
36	1e-82	62 / 81	GSE/ GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_DN
37	3e-81	66 / 99	GSE/ LEE_EARLY_T_LYMPHOCYTE_UP
38	8e-81	84 / 198	GSE/ FUJII_YBX1_TARGETS_DN
39	9e-80	83 / 196	HM HALLMARK_G2M_CHECKPOINT
40	1e-79	79 / 171	GSE/ SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_UP

Overview Map

Spot



p-values



Underexpression Spots

Spot Summary: c1

metagenes = 5
genes = 51

<r> metagenes = 0.99
<r> genes = 0.11
beta: r2= 1.35 / log p= -Inf

samples with spot = 14 (15.2 %)

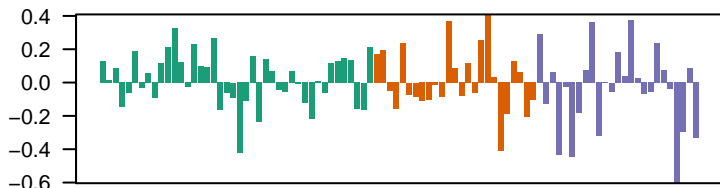
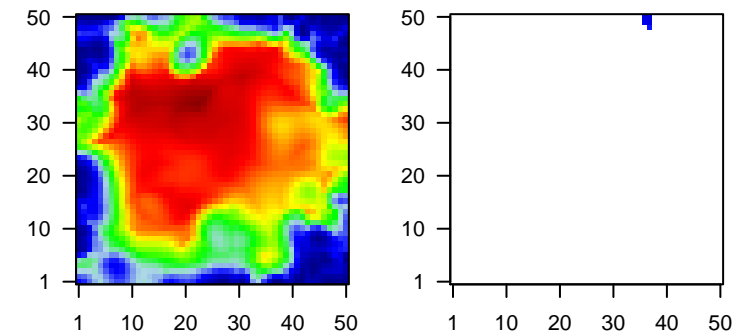
MSC1 : 5 (11.9 %)

MSC2 : 5 (20 %)

MSC3 : 4 (16 %)

Overview Map

Spot



Spot Genelist

Rank	ID	max e	r	Description	
		min e		Symbol	
1	PTPN21	2	-0.19	0.26	PTPN21 protein tyrosine phosphatase, non-receptor type 21 [Source:HGNC Symbol;Acc:HGNC:24247]
2	SLC44A2	1.9	-0.2	0.28	SLC44A2solute carrier family 44 (choline transporter), member 2 [Source:HGNC Symbol;Acc:HGNC:24247]
3	PABPC1L	1.68	-0.4	0.26	PABPC1poly(A) binding protein, cytoplasmic 1-like [Source:HGNC Symbol;Acc:HGNC:24247]
4	GLYCTK	1.67	-0.22	0.29	GLYCTK glycerate kinase [Source:HGNC Symbol;Acc:HGNC:24247]
5	TRAM1L1	1.61	-0.29	0.32	TRAM1Ltranslocation associated membrane protein 1-like 1 [Source:HGNC Symbol;Acc:HGNC:24247]
6	KDM4A	1.56	-0.44	0.26	KDM4A lysine (K)-specific demethylase 4A [Source:HGNC Symbol;Acc:HGNC:24247]
7	METTL18	1.56	-0.63	0.26	METTL18methyltransferase like 18 [Source:HGNC Symbol;Acc:HGNC:24247]
8	TRMT1L	1.55	-0.46	0.22	TRMT1L tRNA methyltransferase 1 homolog (S. cerevisiae)-like [Source:HGNC Symbol;Acc:HGNC:24247]
9	LOH12CR1	1.53	-0.31	0.27	LOH12CR1loss of heterozygosity, 12, chromosomal region 1 [Source:HGNC Symbol;Acc:HGNC:24247]
10	TRPA1	1.47	-0.46	0.18	TRPA1 transient receptor potential cation channel, subfamily A, member 1 [Source:HGNC Symbol;Acc:HGNC:24247]
11	DMAP1	1.45	-0.55	0.35	DMAP1 DNA methyltransferase 1 associated protein 1 [Source:HGNC Symbol;Acc:HGNC:24247]
12	PXK	1.43	-0.35	0.19	PXK PX domain containing serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:24247]
13	GMPR2	1.41	-1.09	0.38	GMPR2 guanosine monophosphate reductase 2 [Source:HGNC Symbol;Acc:HGNC:24247]
14	COA7	1.4	-0.45	0.29	COA7 cytochrome c oxidase assembly factor 7 (putative) [Source:HGNC Symbol;Acc:HGNC:24247]
15	ERCC6	1.4	-0.79	0.35	ERCC6 excision repair cross-complementation group 6 [Source:HGNC Symbol;Acc:HGNC:24247]
16	PIGN	1.39	-1.17	0.29	PIGN phosphatidylinositol glycan anchor biosynthesis, class N [Source:HGNC Symbol;Acc:HGNC:24247]
17	CDK10	1.38	-0.52	0.29	CDK10 cyclin-dependent kinase 10 [Source:HGNC Symbol;Acc:HGNC:24247]
18	TRAPPC11	1.36	-0.63	0.35	TRAPPC11trafficking protein particle complex 11 [Source:HGNC Symbol;Acc:HGNC:24247]
19	SMC5	1.31	-0.83	0.2	SMC5 structural maintenance of chromosomes 5 [Source:HGNC Symbol;Acc:HGNC:24247]
20	MECR	1.31	-0.74	0.38	MECR mitochondrial trans-2-enoyl-CoA reductase [Source:HGNC Symbol;Acc:HGNC:24247]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-06	46 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
2	3e-06	47 / 9482	Colon TssA_Colon
3	1e-05	46 / 9330	Brain Overlap_fetal_midbrain_ReprPC
4	5e-05	40 / 7592	Lymph HOPP_Active_promoter
5	2e-04	42 / 8580	Colon TxWk_Colon
6	2e-04	43 / 9027	Colon Tx_Colon
7	4e-04	37 / 7209	Lymph HOPP_Weak_promoter
8	1e-03	2 / 14	BP nucleotide biosynthetic process
9	1e-03	29 / 5184	Lymph HOPP_Txn_transition
10	1e-03	4 / 136	GSE/ IVANOVA_HEMATOPOIESIS_INTERMEDIATE_PROGENITOR
11	1e-03	4 / 137	GSE/ JISON_SICKLE_CELL_DISEASE_DN
12	1e-03	35 / 6929	Lymph HOPP_Txn_elongation
13	2e-03	2 / 17	miRN hsa-miR-1298
14	2e-03	3 / 70	GSE/ TANAKA_METHYLATED_IN_ESOPHAGEAL_CARCIOMA
15	2e-03	3 / 71	MF structural constituent of ribosome
16	2e-03	10 / 1008	GSE/ BRUINS_UVC_RESPONSE_LATE
17	2e-03	15 / 1975	BP cellular protein modification process
18	2e-03	2 / 20	GSE/ DELLA_RESPONSE_TO_TSA_AND_BUTYRATE
19	2e-03	2 / 21	CC transcription elongation factor complex
20	3e-03	22 / 3644	BP biosynthetic process
21	3e-03	3 / 82	miRN hsa-miR-767-5p
22	3e-03	3 / 83	BP mitochondrial translational elongation
23	3e-03	3 / 83	BP mitochondrial translational initiation
24	3e-03	3 / 83	BP mitochondrial translational termination
25	3e-03	2 / 24	CC mitochondrial ribosome
26	3e-03	6 / 424	GSE/ MILL_PSEUDOPODIA_CHEMOTAXIS_DN
27	3e-03	12 / 1468	CC mitochondrion
28	4e-03	2 / 27	CC aggresome
29	4e-03	44 / 10290	Color TssWk_Colon
30	4e-03	3 / 96	BP mitochondrial translation
31	4e-03	4 / 195	miRN hsa-miR-206
32	5e-03	2 / 30	BP mitotic metaphase plate congression
33	5e-03	2 / 30	GSE/ WONG_IFNA2_RESISTANCE_DN
34	5e-03	8 / 784	GSE/ BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
35	5e-03	30 / 5940	Brain Overlap_fetal_midbrain_HetRpts
36	5e-03	2 / 32	miRN hsa-miR-631
37	6e-03	2 / 34	GSE/ HOFFMANN_IMMATURE_TO_MATURE_B_LYMPHOCYTE_UP
38	6e-03	38 / 8415	Color Quies3_Colon
39	7e-03	2 / 36	GSE/ BURTON_ADIPOGENESIS_PEAK_AT_8HR
40	7e-03	2 / 37	GSE/ BROWNE_HCMV_INFECTION_8HR_DN

p-values

