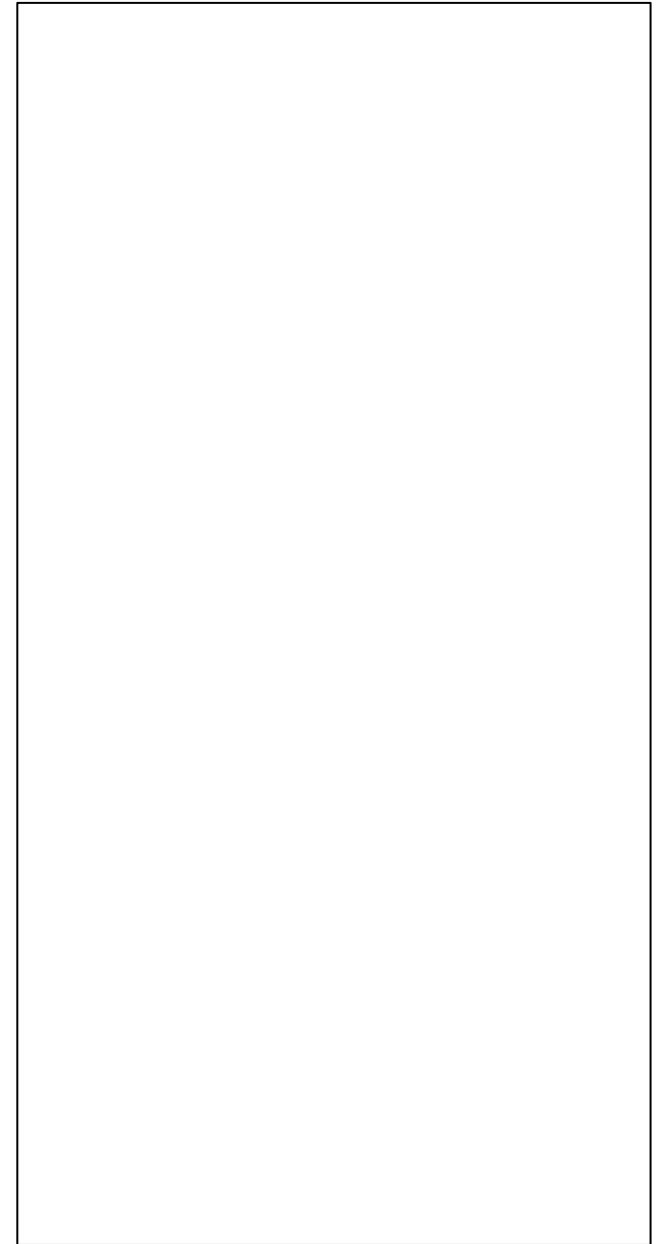
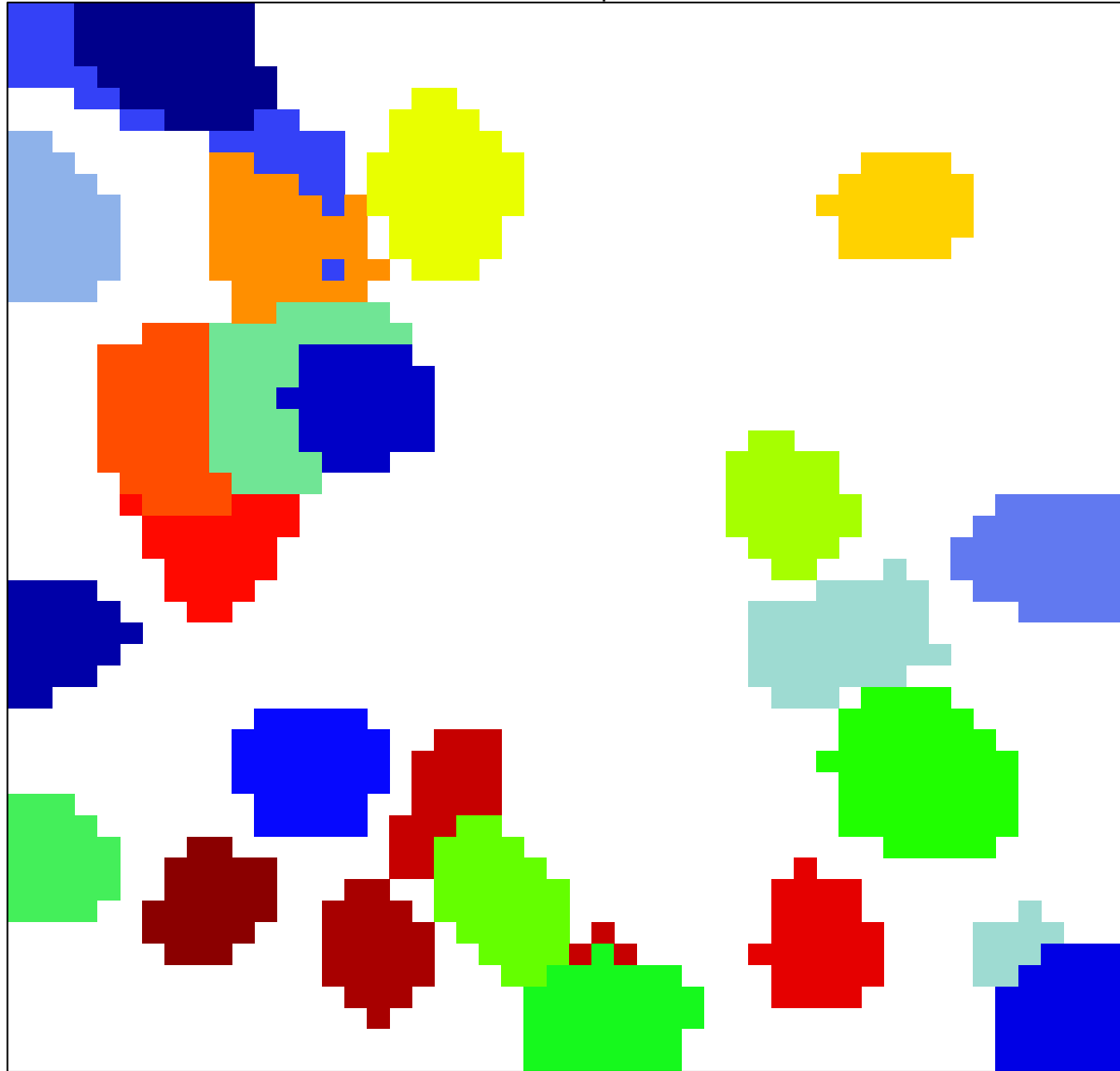


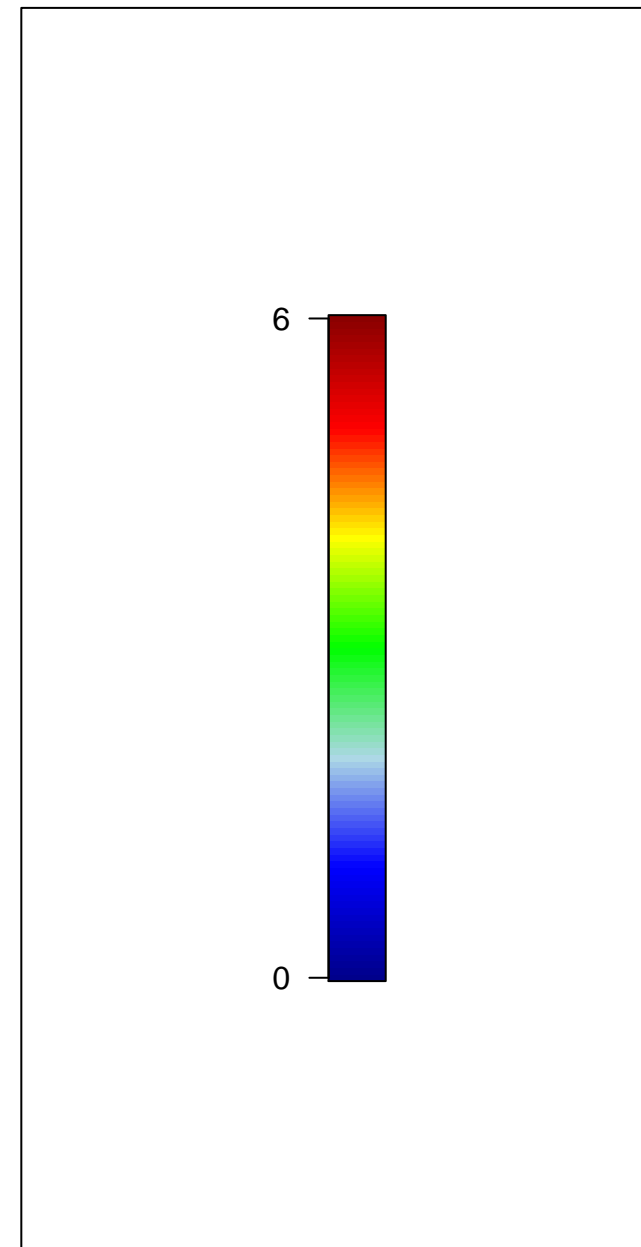
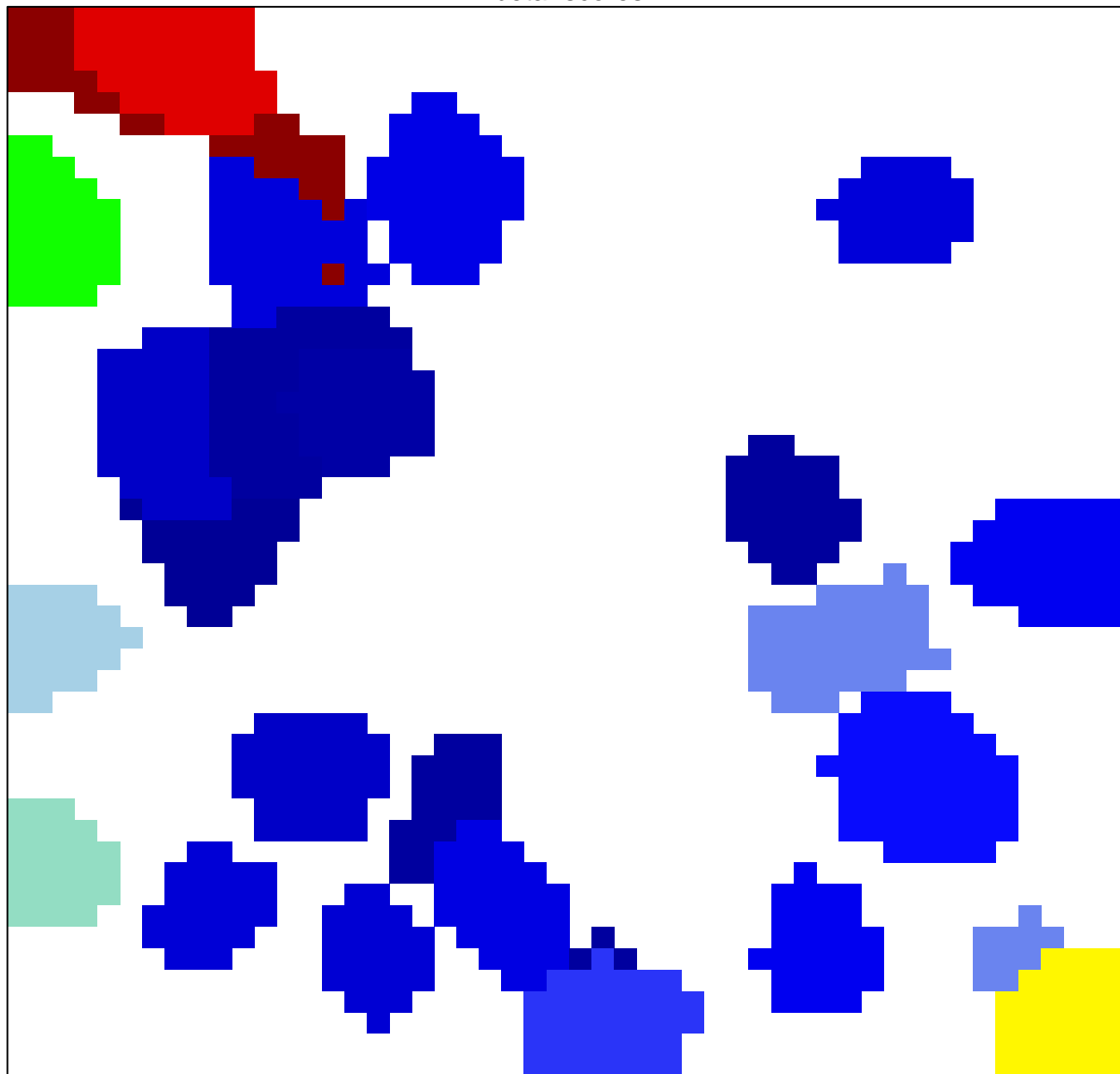
Correlation Clusters

landscape



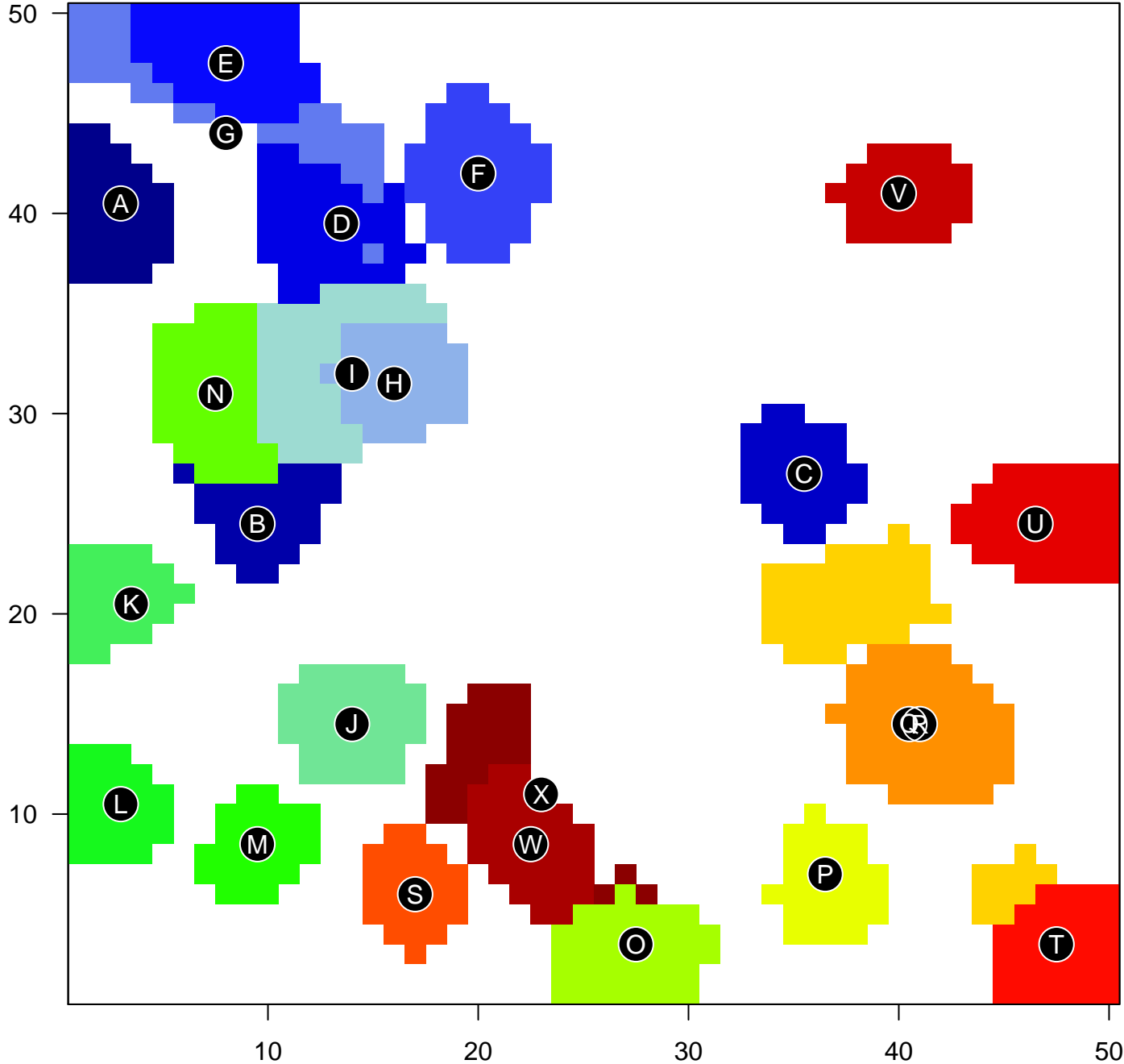
Correlation Clusters

beta-scores



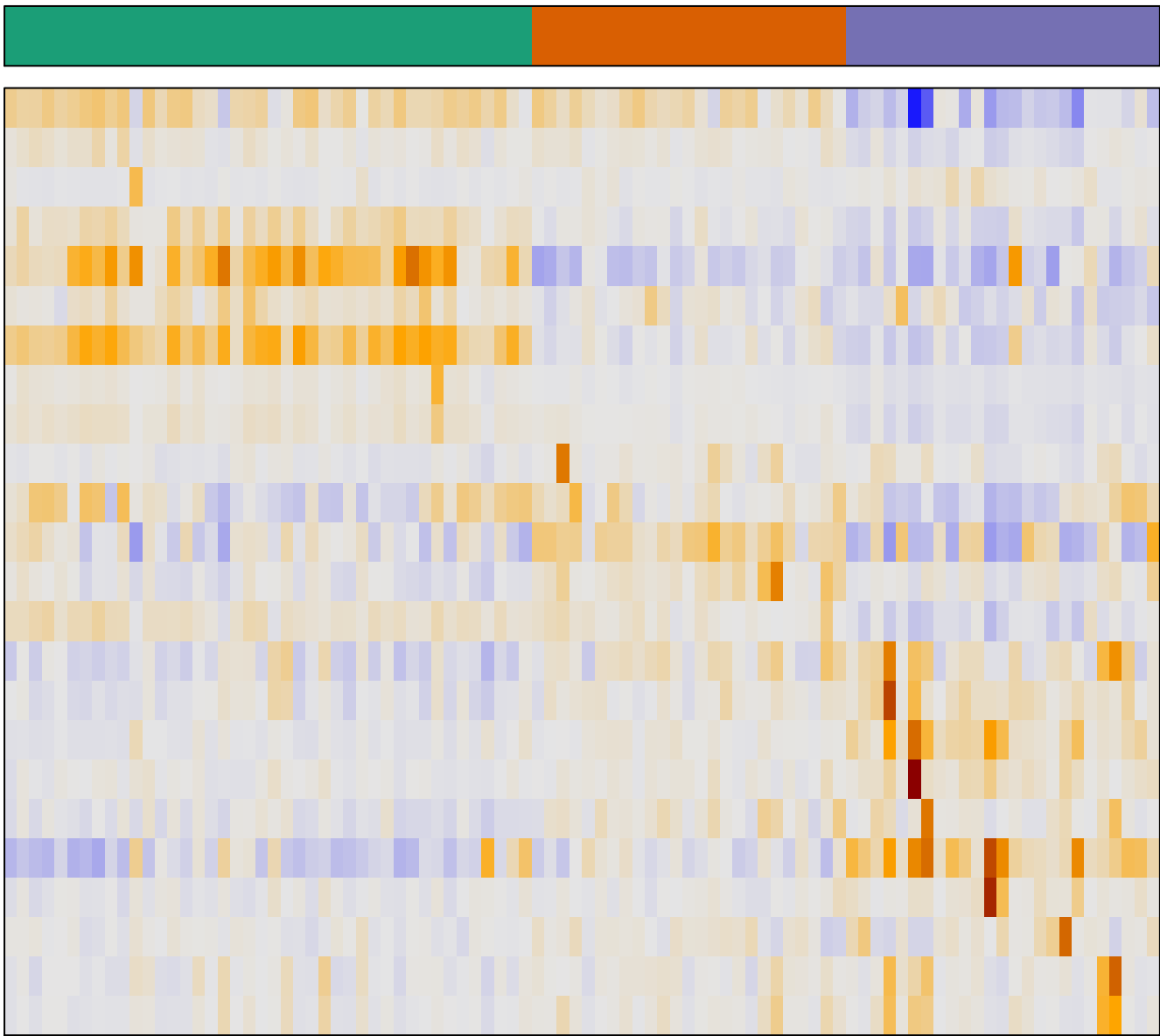
Correlation Clusters

annotation

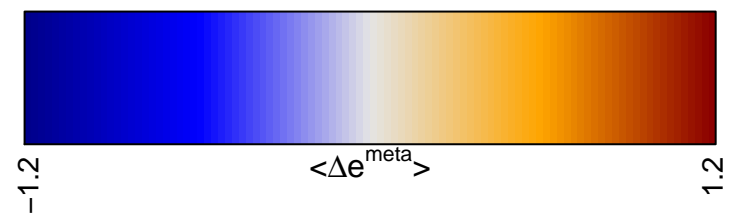
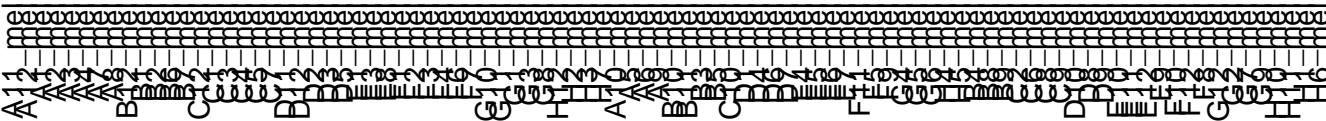


- A mitochondrion
HALLMARK_OXIDATIVE_PHOSPHORYLATION
STEIN_ESRRA_TARGETS_UP
- B steroid binding
ReprPC_Colon
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLI
- C HOPP_Repressed
TssP_Colon
ReprPC_Colon
- D BILD_E2F3_ONCOGENIC_SIGNATURE
JAERVINEN_AMPLIFIED_IN_LARYNGEAL_CANCER
COLLIS_PRKDC_REGULATORS
- E WILLSCHEER_GBM_Verhaak-CL_up (C)
GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
MARSON_BOUND_BY_E2F4_UNSTIMULATED
- F HOPP_Active_promoter
Chr 6
HOPP_Txn_elongation
- G DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
- H Overlap_fetal_midbrain_TxTrans
Overlap_fetal_midbrain_TssA
neurological system process
- I MASCQUE_GCB UP
perinuclear endoplasmic reticulum
lateral ventricle development
- J TARTE_B-cell signature
TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_DN
TssP_Colon
- K TssA_Colon
TssF_Colon
KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
- L Overlap_fetal_midbrain_ReprPC
Overlap_fetal_midbrain_K9K27me3
Overlap_fetal_midbrain_ReprPCWk
- M hsa-miR-337-3p
Overlap_fetal_midbrain_Enh
calmodulin-dependent protein kinase activity
- N respiratory electron transport chain
mitochondrial inner membrane
REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_
- O KEGG_ABC_TRANSPORTERS
BEN-PORATH_DN
ATPase activity, coupled to transmembrane movement of su
- P Mid_Frontal_Lobe_Enh
- Q
- R
- S
- T
- U
- V
- W
- X

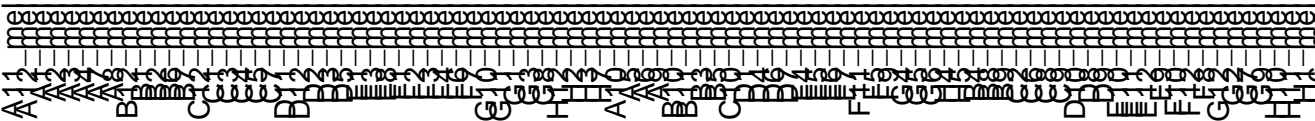
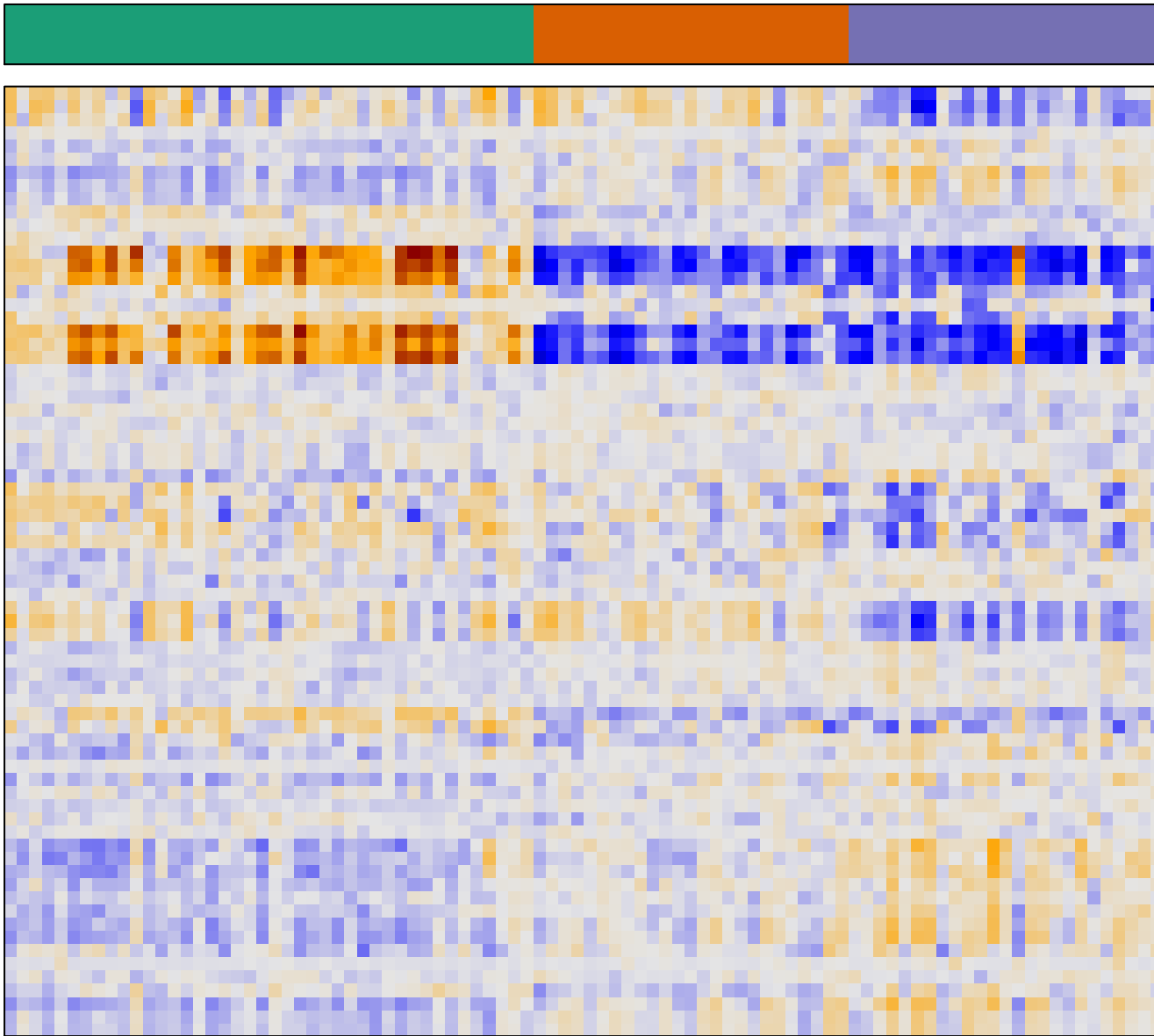
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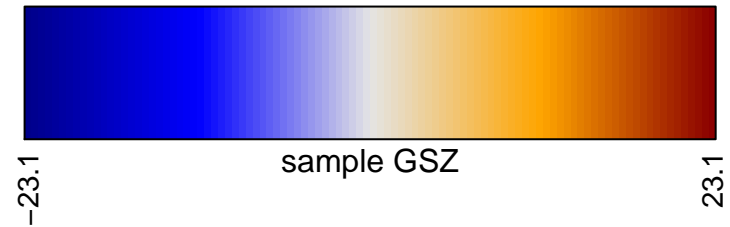
mitochondrion
 KALMARK_OXIDATIVE_PHOSPHORYLATION
 STEIN_ESRRA_TARGETS_UP
 steroid binding
 GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLACK_UP
 HOPP_Repressed
 ReprPC_Colon
 BUILD_E2F3_ONCOGENIC_SIGNATURE
 COLLIS_FRKDC_REGULATORS
 WILLSCHER_GBM_Verhaak_Cl_up(C)
 GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
 MARSON_BOUND_BY_E2F4_UNSTIMULATED
 HOPP_Active_promoter
 HOPP_Txn_elongation
 DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
 KINSEY_TARGETS_OF_EWSR1_FUSION_UP
 GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
 Overlap_fetal_midbrain_TxTrans
 neurological system process
 MASCOUE_GCB_UP
 lateral ventricle glasmic reticulum
 lateral ventricle development
 TABTE_B_cell_signature
 TSSP_Colon
 TSSA_Colon
 KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
 Overlap_fetal_midbrain_ReprPC
 Overlap_fetal_midbrain_K9K27me3
 Overlap_fetal_midbrain_ReprPCWk
 hsa-miR-337-3p
 Overlap_fetal_midbrain_Enh
 calmodulin-dependent protein kinase activity
 respiratory electron transport chain
 mitochondrial inner membrane
 REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP_SYNTHESIS
 KEGG_ABC_TRANSPORTERS
 ATPase activity, coupled to transmembrane movement of substances
 Mid_Frontal_Lobe_Enh
 GAL_LEUKEMIC_STEM_CELL_DN
 Overlap_fetal_midbrain_ReprPC
 TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_UP
 sensory perception of taste
 KEGG_SULFUR_METABOLISM
 homophilic cell adhesion via plasma membrane adhesion molecules
 Overlap_fetal_midbrain_Het
 Mid_Frontal_Lobe_TSSA
 DUTERTRE ESTRADIOL_RESPONSE_24HR_DN
 PASINI_SUZ12_TARGETS_DN
 WONG_ADULT_TISSUE_STEM_MODULE
 Fetal_TSSF
 GOZGT_ESR1_TARGETS_DN
 HOPP_Poised_promoter
 Mid_Frontal_Lobe_ReprPC
 REACTOME_DIGESTION_OF_DIETARY_CARBOHYDRATE
 MEISSNER_BRAIN_HCP_WITH_H3K4ME3_AND_H3K27ME3
 HOPP_Repressed
 ReprPCWk_Colon



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- mitochondrion
- HALLMARK_OXIDATIVE_PHOSPHORYLATION
- STEIN_ESRRA_TARGETS_UP
- steroid binding
- ReprPC_Colon
- GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLACK_UP
- HOPP_Repressed
- ReprPC_Colon
- BALD_E2F3_ONCOGENIC_SIGNATURE
- COLLIS_PRKDC_REGULATORS
- WILLSCHER_GBM_Verhaak_Cl_up(C)
- GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
- MARSON_BOUND_BY_E2F4_UNSTIMULATED
- HOPP_Active_promoter
- HOPP_Txn_elongation
- DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
- KINSEY_TARGETS_OF_EWSR1_FUSION_UP
- GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
- Overlap_fetal_midbrain_TxTrans
- Overlap_fetal_midbrain_TssA
- neurological system process
- MASCOUF_GCB_UP
- perinuclear_endoplasmic_reticulum
- lateral_ventricle_development
- TASTE_B_cell_signature
- TSSM_CELL_VS_B_LYMPHOCYTE_DN
- TssP_Colon
- TssA_Colon
- KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
- Overlap_fetal_midbrain_ReprPC
- Overlap_fetal_midbrain_K9K27me3
- Overlap_fetal_midbrain_ReprPCWk
- hsa-miR-337-3p
- Overlap_fetal_midbrain_Enh
- calmodulin-dependent protein kinase activity
- respiratory electron transport chain
- mitochondrial inner membrane
- REACTOME_RESPIRATORY ELECTRON_TRANSPORT_ATP_SYNTHESIS
- KEGG_ABC_TRANSPORTERS
- ATPase activity, coupled to transmembrane movement of substances
- Mid_Frontal_Lobe_Enh
- REACTOME_TRANSCRIPTIONAL REGULATORY_INTERACTIONS_BETWEEN_A_LYM
- GAL_LEUKEMIC STEM_CELL_DN
- Overlap_fetal_midbrain_ReprPC
- TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_UP
- sensory perception of taste
- TssP_Colon
- KEGG_SULFUR_METABOLISM
- homophilic cell adhesion via plasma membrane adhesion molecules
- Overlap_fetal_midbrain_Het
- Mid_Frontal_Lobe_TssA
- DUTERTRE ESTRADIOL_RESPONSE_24HR_DN
- PASINI_SUZ12_TARGETS_DN
- WONG_ADULT_TISSUE_STEM_MODULE
- Fetal_TssF
- Queszt_Colon
- GOZGT_ESR1_TARGETS_DN
- HOBB_Poised_promoter
- Mid_Frontal_Lobe_ReprPC
- REACTOME_DIGESTION_OF_DIETARY_CARBOHYDRATE
- MEISSNER_BRAIN_HCP_WITH_H3K4ME3_AND_H3K27ME3
- HOPP_Repressed
- ReprPC_Colon
- ReprPCWk_Colon



Correlation Clusters

Spot Summary: A

metagenes = 33
genes = 404

<r> metagenes = 0.94
<r> genes = 0.15
beta: r2= 3.06 / log p= -Inf

samples with spot = 23 (25 %)
MSC1 : 13 (31 %)
MSC2 : 10 (40 %)

Spot Genelist

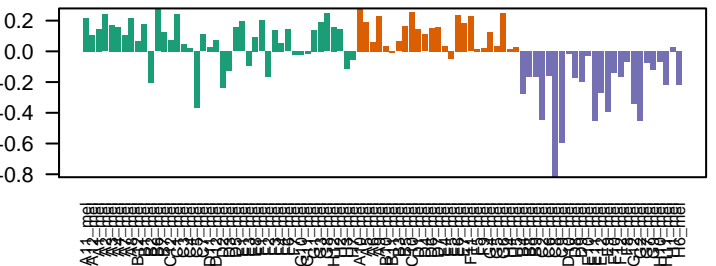
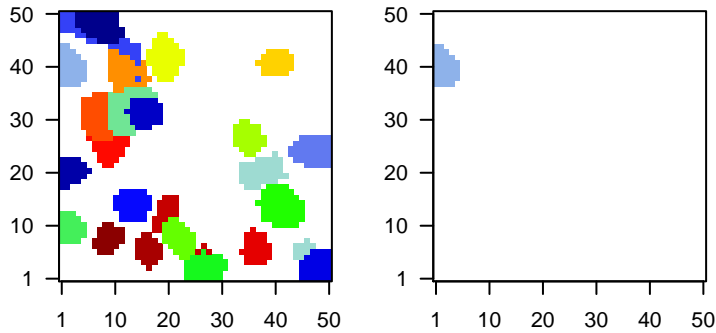
Rank	ID	max e	r	min e	Description
1	ZNF577	1.94	-0.21	0.27	ZNF577 zinc finger protein 577 [Source:HGNC Symbol;Acc:HGNC:28]
2	BCS1L	1.71	-0.91	0.27	BCS1L BCS1 (ubiquinol-cytochrome c reductase) synthesis-like [Sou
3	ZNF30	1.71	-0.15	0.26	ZNF30 zinc finger protein 30 [Source:HGNC Symbol;Acc:HGNC:130]
4	GAPDHS	1.71	-1.17	0.59	GAPDHSglyceraldehyde-3-phosphate dehydrogenase, spermatogeni
5	ST6GALNAC3	1.69	-0.39	0.32	ST6GALNAC3(alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-
6	TRMT1	1.65	-0.71	0.36	TRMT1 tRNA methyltransferase 1 homolog (S. cerevisiae) [Source:Hi
7	NMRK2	1.63	-1.2	0.71	NMRK2 nicotinamide riboside kinase 2 [Source:HGNC Symbol;Acc:Hi
8	NT5DC1	1.63	-0.93	0.28	NT5DC1 5'-nucleotidase domain containing 1 [Source:HGNC Symbol;
9	SEPSECS	1.63	-0.31	0.32	SEPSECS(e-p (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA syr
10	WIPF3	1.62	-0.29	0.33	WIPF3 WAS/WASL interacting protein family, member 3 [Source:HGI
11	ANO2	1.61	-0.48	0.34	ANO2 anoctamin 2, calcium activated chloride channel [Source:HG
12	CPN1	1.59	-0.23	0.33	CPN1 carboxypeptidase N, polypeptide 1 [Source:HGNC Symbol;Ac
13	CAPG	1.58	-0.72	0.39	CAPG capping protein (actin filament), gelsolin-like [Source:HGNC :
14	NPAS2	1.58	-0.27	0.28	NPAS2 neuronal PAS domain protein 2 [Source:HGNC Symbol;Acc:Hi
15	TM2D2	1.57	-1.01	0.27	TM2D2 TM2 domain containing 2 [Source:HGNC Symbol;Acc:HGNC
16	MAPK10	1.57	-0.69	0.44	MAPK10 mitogen-activated protein kinase 10 [Source:HGNC Symbol;
17	SNAP29	1.56	-0.44	0.3	SNAP29 synaptosomal-associated protein, 29kDa [Source:HGNC Syr
18	C1orf21	1.56	-0.91	0.34	C1orf21 chromosome 1 open reading frame 21 [Source:HGNC Symbc
19	PEX2	1.56	-0.83	0.18	PEX2 peroxisomal biogenesis factor 2 [Source:HGNC Symbol;Acc:Hi
20	HTRA2	1.56	-0.39	0.28	HTRA2 Htra serine peptidase 2 [Source:HGNC Symbol;Acc:HGNC:1

Geneset Overrepresentation

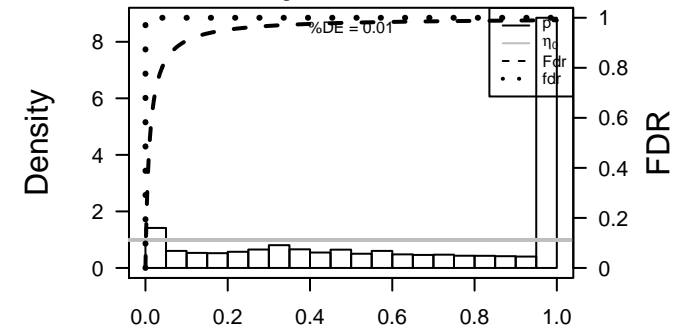
Rank	p-value	#in/all	Geneset
1	3e-22	107 / 1468	CC mitochondrion
2	8e-22	38 / 198	HM HALLMARK_OXIDATIVE_PHOSPHORYLATION
3	5e-19	47 / 368	GSE/ STEIN_ESRRA_TARGETS_UP
4	3e-18	48 / 401	CC mitochondrial inner membrane
5	2e-17	47 / 405	GSE/ MOOTHA_HUMAN_MITODB_6_2002
6	2e-16	276 / 7203	Colon TssF_Colon
7	2e-16	51 / 500	GSE/ STEIN_ESRRA_TARGETS
8	1e-14	44 / 421	GSE/ MOOTHA_MITOCHONDRIA
9	5e-14	60 / 756	GSE/ WEI_MYCN_TARGETS_WITH_E_BOX
10	9e-14	294 / 8205	CC cytoplasm
11	2e-13	324 / 9482	Colon TssA_Colon
12	2e-13	41 / 398	GSE/ MOOTHA_PGC
13	1e-12	44 / 478	GSE/ STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
14	2e-12	73 / 1126	GSE/ BLALOCK_ALZHEIMERS_DISEASE_DN
15	5e-11	93 / 1730	BP small molecule metabolic process
16	2e-10	60 / 925	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
17	4e-10	303 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
18	5e-10	303 / 9027	Colon Tx_Colon
19	1e-09	14 / 63	Glio Stuehler_Proteins_up_in_STS
20	1e-09	8 / 15	GSE/ MOOTHA_TCA
21	2e-09	10 / 28	BP tricarboxylic acid cycle
22	2e-09	10 / 28	GSE/ KEGG_CITRATE_CYCLE_TCA_CYCLE
23	3e-09	22 / 177	GSE/ YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_17
24	3e-09	31 / 338	GSE/ DAIRKEE_TERT_TARGETS_UP
25	5e-09	30 / 325	GSE/ PENG_GLUTAMINE_DEPRIVATION_DN
26	8e-09	29 / 312	GSE/ WONG_EMBRYONIC_STEM_CELL_CORE
27	1e-08	11 / 42	Lymp CARO_OxPhos_in_DLBC_LUP
28	1e-08	46 / 685	GSE/ KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_UP
29	2e-08	8 / 19	GSE/ REACTOME_CITRIC_ACID_CYCLE_TCA_CYCLE
30	2e-08	23 / 213	GSE/ WONG_MITOCHONDRIA_GENE_MODULE
31	2e-08	24 / 233	GSE/ PENG_RAPAMYCIN_RESPONSE_DN
32	3e-08	36 / 475	GSE/ ONKEN_UVEAL_MELANOMA_DN
33	3e-08	242 / 6929	Lymp HOPP_Txn_elongation
34	6e-08	28 / 322	BP mitochondrion organization
35	8e-08	38 / 541	BP oxidation-reduction process
36	1e-07	50 / 831	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
37	2e-07	20 / 188	HM HALLMARK_ADIPOGENESIS
38	2e-07	68 / 1326	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
39	2e-07	19 / 171	GSE/ BURTON_ADIPOGENESIS_6
40	3e-07	10 / 45	MF NAD binding

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: B

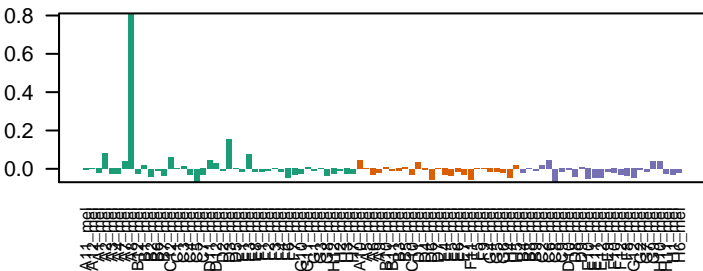
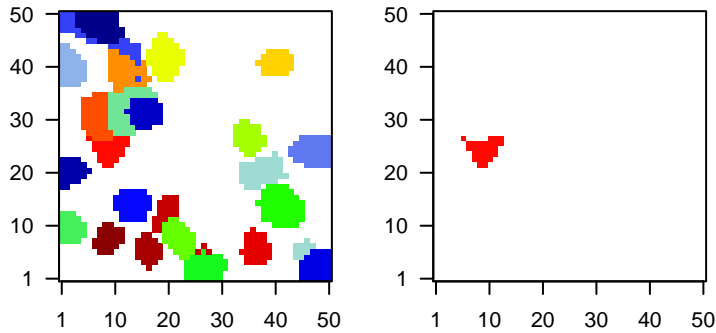
metagenes = 28
genes = 19

<r> metagenes = 0.94
<r> genes = 0.42
beta: r2= 0.1 / log p= -2.76

samples with spot = 1 (1.1 %)
MSC1 : 1 (2.4 %)

Overview Map

Spot

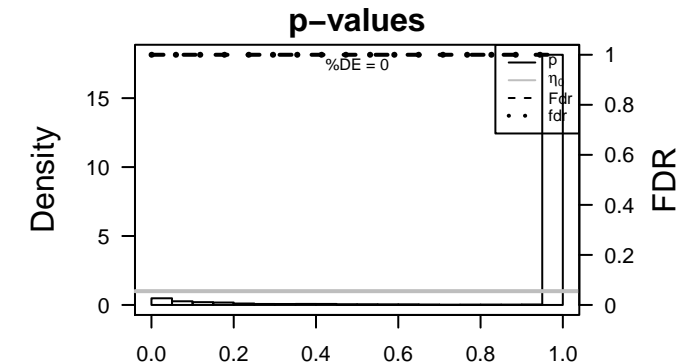


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	CD247	1.67	-0.03	0.44	CD247 CD247 molecule [Source:HGNC Symbol;Acc:HGNC:1677]
2	DNAH11	1.55	-0.08	0.34	DNAH11 dynein, axonemal, heavy chain 11 [Source:HGNC Symbol;Acc:HGNC:1677]
3	CDC42EP2	1.34	-0.07	0.3	CDC42EP2 CDC42 effector protein (Rho GTPase binding) 2 [Source:HGNC Symbol;Acc:HGNC:1677]
4	ZNF713	1.33	-0.05	0.18	ZNF713 zinc finger protein 713 [Source:HGNC Symbol;Acc:HGNC:2211]
5	PVRL1	1.3	-0.05	0.27	PVRL1 poliovirus receptor-related 1 (herpesvirus entry mediator C) [Source:HGNC Symbol;Acc:HGNC:1677]
6	CARNS1	1.3	-0.03	0.42	CARNS1 carnosine synthase 1 [Source:HGNC Symbol;Acc:HGNC:292]
7	ST8SIA5	1.15	-0.01	0.43	ST8SIA5 ST8 alpha-N-acetylneuraminidase alpha-2,8-sialyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:1677]
8	PAQR5	1.13	-0.04	0.34	PAQR5 progesterin and adiponectin receptor family member V [Source:HGNC Symbol;Acc:HGNC:1677]
9	ESR2	1.13	-0.05	0.42	ESR2 estrogen receptor 2 (ER beta) [Source:HGNC Symbol;Acc:HGNC:1677]
10	SYT8	0.99	-0.01	0.45	SYT8 synaptotagmin VIII [Source:HGNC Symbol;Acc:HGNC:19264]
11	CHST13	0.94	-0.02	0.45	CHST13 carbohydrate (chondroitin 4) sulfotransferase 13 [Source:HGNC Symbol;Acc:HGNC:1677]
12	GCM1	0.91	-0.02	0.26	GCM1 glial cells missing homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:HGNC:1677]
13	CTD-2006C1	0.77	-0.02	0.44	CTD-2006C1
14	PM20D1	0.77	-0.03	0.34	PM20D1 peptidase M20 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:1677]
15	MIP	0.59	-0.04	0.4	MIP major intrinsic protein of lens fiber [Source:HGNC Symbol;Acc:HGNC:1677]
16	EIF1	0.43	-0.43	0.19	EIF1 eukaryotic translation initiation factor 1 [Source:HGNC Symbol;Acc:HGNC:1677]
17	IKZF1	0.37	0	0.42	IKZF1 IKAROS family zinc finger 1 (Ikaros) [Source:HGNC Symbol;Acc:HGNC:1677]
18	SET	0.35	-0.42	0.31	SET SET nuclear proto-oncogene [Source:HGNC Symbol;Acc:HGNC:1677]
19	HNRNPC	0.35	-0.55	0.31	HNRNPC heterogeneous nuclear ribonucleoprotein C (C1/C2) [Source:HGNC Symbol;Acc:HGNC:1677]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-04	2 / 17	MF steroid binding
2	4e-04	9 / 2142	Colon ReprPC_Colon
3	7e-04	2 / 33	GSE/ GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLACK
4	9e-04	8 / 1889	Colon ReprPCWk_Colon
5	2e-03	2 / 53	BP retina development in camera-type eye
6	2e-03	6 / 1199	GSE/ PUJANA_ATM_PCC_NETWORK
7	2e-03	2 / 58	GSE/ PID_ERA_GENOMIC_PATHWAY
8	3e-03	10 / 3396	Lymph HOPP_Repressed
9	3e-03	5 / 892	GSE/ YOSHIMURA_MAPK8_TARGETS_UP
10	4e-03	2 / 74	GSE/ RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATELY_DN
11	4e-03	2 / 75	miRN hsa-miR-939
12	5e-03	1 / 4	GSE/ BIOCARTA_TCAPOPTOSIS_PATHWAY
13	6e-03	1 / 5	GSE/ BIOCARTA_TCR_PATHWAY
14	6e-03	1 / 5	GSE/ BIOCARTA_NO2IL12_PATHWAY
15	6e-03	3 / 316	GSE/ HSIAO_HOUSEKEEPING_GENES
16	7e-03	1 / 6	GSE/ BIOCARTA_CTL_PATHWAY
17	7e-03	1 / 6	GSE/ BIOCARTA_IL17_PATHWAY
18	7e-03	1 / 6	GSE/ BIOCARTA_TCYTOTOXIC_PATHWAY
19	8e-03	3 / 350	Tissu WIRTH_Immune system
20	8e-03	1 / 7	GSE/ BIOCARTA_THELPER_PATHWAY
21	8e-03	1 / 7	GSE/ REACTOME_TRANSLOCATION_OF_ZAP_70_TO_IMMUNOLOGICAL_S
22	8e-03	1 / 7	GSE/ REACTOME_PASSIVE_TRANSPORT_BY_AQUAPORINS
23	8e-03	1 / 7	GSE/ MYLYKANGAS_AMPLIFICATION_HOT_SPOT_29
24	8e-03	1 / 7	GSE/ GOERING_BLOOD_HDL_CHOLESTEROL_QTL_CIS
25	9e-03	8 / 2698	Color EnhA_Colon
26	1e-02	1 / 8	GSE/ BIOCARTA_SET_PATHWAY
27	1e-02	7 / 2159	Color TssP_Colon
28	1e-02	9 / 3383	Color EnhWk2_Colon
29	1e-02	7 / 2185	Brain Fetal_TssA
30	1e-02	7 / 2188	Lymph HOPP_Poised_promoter
31	1e-02	1 / 9	GSE/ BIOCARTA_CTLA4_PATHWAY
32	1e-02	1 / 9	GSE/ MATZUK_PREOVULATORY_FOLLICLE
33	1e-02	2 / 132	GSE/ NING_CHRONIC_OBSTRUCTIVE_PULMONARY_DISEASE_UP
34	1e-02	2 / 132	GSE/ SENGUPTA_EBNA1_ANTICORRELATED
35	1e-02	1 / 10	BP lymph node development
36	1e-02	1 / 10	CC pericentric heterochromatin
37	1e-02	1 / 10	CC viral nucleocapsid
38	1e-02	1 / 10	Lymph Shknovich_ABC_hypo_meth
39	1e-02	1 / 10	GSE/ REACTOME_PHOSPHORYLATION_OF_CD3_AND_TCR_ZETA_CHAINS
40	1e-02	5 / 1207	Brain Overlap_fetal_midbrain_TssF



Correlation Clusters

Spot Summary: C

metagenes = 30
genes = 92

<r> metagenes = 0.94
<r> genes = 0.37
beta: r2= 0.16 / log p= -4.04

samples with spot = 1 (1.1 %)
MSC1 : 1 (2.4 %)

Spot Genelist

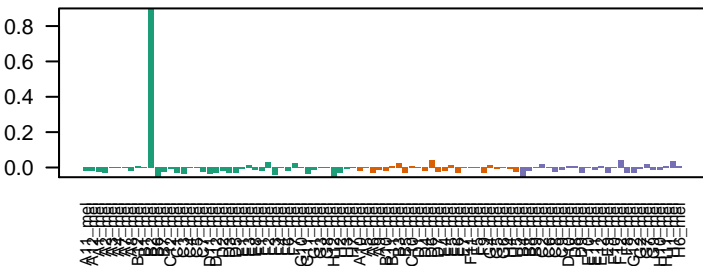
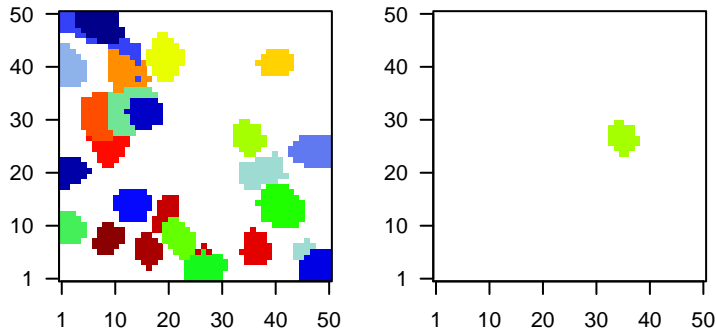
Rank	ID	max e	r	min e	Description
1	OPHN1	2.4	-0.43	0.41	OPHN1 oligophrenin 1 [Source:HGNC Symbol;Acc:HGNC:8148]
2	RORA	2.04	-0.07	0.7	RORA RAR-related orphan receptor A [Source:HGNC Symbol;Acc:HGNC:10000]
3	FBLN5	2.02	-0.06	0.46	FBLN5 fibulin 5 [Source:HGNC Symbol;Acc:HGNC:3602]
4	S100A6	1.89	-0.08	0.64	S100A6 S100 calcium binding protein A6 [Source:HGNC Symbol;Acc:HGNC:10000]
5	PLA2G7	1.77	-0.08	0.38	PLA2G7 phospholipase A2, group VII (platelet-activating factor acetyltransferase) [Source:HGNC Symbol;Acc:HGNC:10000]
6	IGF2BP1	1.75	-0.03	0.86	IGF2BP1 insulin-like growth factor 2 mRNA binding protein 1 [Source:HGNC Symbol;Acc:HGNC:10000]
7	SPATA9	1.74	-0.06	0.62	SPATA9 spermatogenesis associated 9 [Source:HGNC Symbol;Acc:HGNC:10000]
8	NUDT7	1.72	-0.03	0.53	NUDT7 nudix (nucleoside diphosphate linked moiety X)-type motif 7 [Source:HGNC Symbol;Acc:HGNC:10000]
9	ILDR2	1.72	-0.08	0.39	ILDR2 immunoglobulin-like domain containing receptor 2 [Source:HGNC Symbol;Acc:HGNC:10000]
10	RNF31	1.69	-0.25	0.33	RNF31 ring finger protein 31 [Source:HGNC Symbol;Acc:HGNC:160]
11	CCNA1	1.64	-0.04	0.83	CCNA1 cyclin A1 [Source:HGNC Symbol;Acc:HGNC:1577]
12	ZNF570	1.59	-0.11	0.5	ZNF570 zinc finger protein 570 [Source:HGNC Symbol;Acc:HGNC:26]
13	GNG2	1.58	-0.12	0.43	GNG2 guanine nucleotide binding protein (G protein), gamma 2 [Source:HGNC Symbol;Acc:HGNC:10000]
14	PPIL6	1.54	-0.06	0.42	PPIL6 peptidylprolyl isomerase (cyclophilin)-like 6 [Source:HGNC Symbol;Acc:HGNC:10000]
15	CTPS2	1.53	-0.05	0.66	CTPS2 CTP synthase 2 [Source:HGNC Symbol;Acc:HGNC:2520]
16	TRAF3IP3	1.51	-0.04	0.72	TRAF3IP3 TRAF3 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:10000]
17	MAPK4	1.48	-0.12	0.32	MAPK4 mitogen-activated protein kinase 4 [Source:HGNC Symbol;Acc:HGNC:10000]
18	DPF1	1.48	-0.06	0.38	DPF1 D4, zinc and double PHD fingers family 1 [Source:HGNC Symbol;Acc:HGNC:10000]
19	AMDHD1	1.44	-0.18	0.44	AMDHD1 amidohydrolase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10000]
20	RNF180	1.41	-0.2	0.37	RNF180 ring finger protein 180 [Source:HGNC Symbol;Acc:HGNC:27]

Geneset Overrepresentation

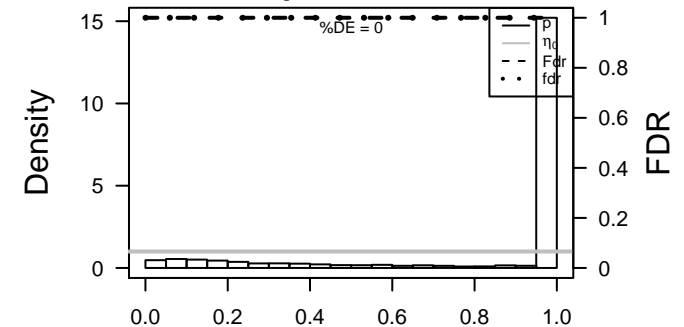
Rank	p-value	#in/all	Geneset
1	8e-11	49 / 3396	Lymph HOPE_Repressed
2	3e-09	36 / 2159	Colon TssP_Colon
3	4e-08	34 / 2142	Colon ReprPC_Colon
4	7e-07	24 / 1317	Colon EnhP_Colon
5	4e-06	28 / 1889	Colon ReprPCWk_Colon
6	1e-05	15 / 674	GSE/ BENPORATH_SUZ12_TARGETS
7	3e-05	15 / 720	GSE/ BENPORATH_ES_WITH_H3K27ME3
8	1e-04	15 / 812	Brain Mid_Frontal_Lobe_TssP
9	1e-04	10 / 396	GSE/ BENPORATH_PRC2_TARGETS
10	1e-04	18 / 1139	TF HEBENSTREIT_low expression TF
11	2e-04	27 / 2185	Brain Fetal_TssA
12	2e-04	7 / 199	GSE/ MIKKELSEN_NPC_HCP_WITH_H3K27ME3
13	3e-04	3 / 21	GSE/ HANN_RESISTANCE_TO_BCL2_INHIBITOR_UP
14	4e-04	13 / 724	GSE/ BENPORATH_EED_TARGETS
15	8e-04	7 / 250	Color K9K27me3_Colon
16	9e-04	12 / 686	Brain Overlap_fetal_midbrain_TssA
17	1e-03	10 / 519	BP cell-cell signaling
18	1e-03	2 / 9	GSE/ BIOCARTA_ERYTH_PATHWAY
19	1e-03	2 / 9	GSE/ BIOCARTA_AHSP_PATHWAY
20	1e-03	4 / 80	BP anterior/posterior pattern specification
21	2e-03	3 / 39	GSE/ MEISSNER_NPC_HCP_WITH_H3K27ME3
22	2e-03	4 / 85	GSE/ KEEN_RESPONSE_TO_ROSIGLITAZONE_DN
23	2e-03	3 / 40	GSE/ ZHENG_IL22_SIGNALING_UP
24	2e-03	13 / 862	Brain Overlap_fetal_midbrain_TxTrans
25	2e-03	30 / 2972	Brain Mid_Frontal_Lobe_ReprPC
26	2e-03	3 / 42	GSE/ JIANG_AGING_HYPOTHALAMUS_UP
27	2e-03	3 / 43	BP substantia nigra development
28	2e-03	24 / 2188	Lymph HOPE_Poised_promoter
29	2e-03	16 / 1207	Brain Overlap_fetal_midbrain_TssF
30	2e-03	2 / 12	CC endocytic vesicle lumen
31	2e-03	2 / 12	BP monocyte chemotaxis
32	2e-03	2 / 12	GSE/ PID_THROMBIN_PAR4_PATHWAY
33	3e-03	7 / 313	GSE/ SMID_BREAST_CANCER_NORMAL_LIKE_UP
34	3e-03	14 / 1013	Brain Fetal_TssP
35	3e-03	2 / 14	MF peroxidase activity
36	3e-03	3 / 50	GSE/ LEIN_NEURON_MARKERS
37	4e-03	2 / 15	BP hydrogen peroxide catabolic process
38	4e-03	2 / 16	GSE/ SCHLESINGER_H3K27ME3_IN_NORMAL_AND_METHYLATED_IN_CANCER
39	5e-03	3 / 55	GSE/ RICKMAN_HEAD_AND_NECK_CANCER_CLUSTER
40	5e-03	2 / 17	CC cytoplasmic ribonucleoprotein granule

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: D

metagenes = 41
genes = 112

<r> metagenes = 0.93
<r> genes = 0.1
beta: r2= 0.7 / log p= -Inf

samples with spot = 8 (8.7 %)
MSC1 : 8 (19 %)

Spot Genelist

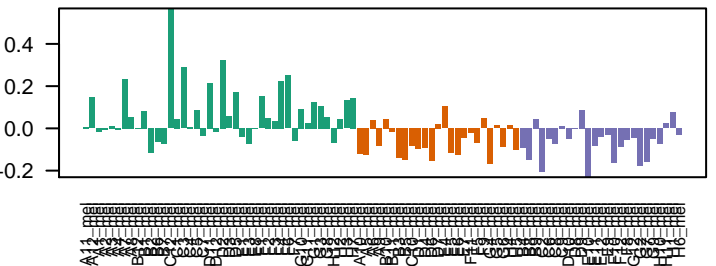
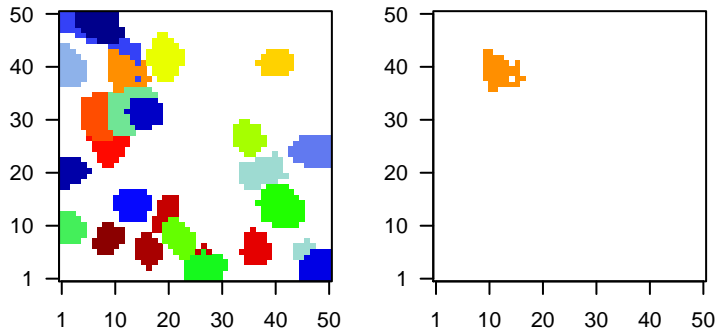
Rank	ID	max e	r	min e	Description
					Symbol
1	KLHL32	1.89	-0.06	0.37	KLHL32 kelch-like family member 32 [Source:HGNC Symbol;Acc:HGNC:11731]
2	HSD17B6	1.83	-0.06	0.33	HSD17B6 hydroxysteroid (17-beta) dehydrogenase 6 [Source:HGNC Symbol;Acc:HGNC:11732]
3	ASH2L	1.79	-0.43	0.38	ASH2L ash2 (absent, small, or homeotic)-like (Drosophila) [Source:HGNC Symbol;Acc:HGNC:11733]
4	STRA6	1.68	-0.03	0.39	STRA6 stimulated by retinoic acid 6 [Source:HGNC Symbol;Acc:HGNC:11734]
5	S100B	1.66	-0.6	0.29	S100B S100 calcium binding protein B [Source:HGNC Symbol;Acc:HGNC:11735]
6	CMPK2	1.65	-0.03	0.36	CMPK2 cytidine monophosphate (UMP-CMP) kinase 2, mitochondria [Source:HGNC Symbol;Acc:HGNC:11736]
7	TEX15	1.65	-0.25	0.33	TEX15 testis expressed 15 [Source:HGNC Symbol;Acc:HGNC:11737]
8	LETM2	1.64	-0.08	0.36	LETM2 leucine zipper-EF-hand containing transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:11738]
9	GLRB	1.63	-0.2	0.3	GLRB glycine receptor, beta [Source:HGNC Symbol;Acc:HGNC:11739]
10	PTGR2	1.62	-0.38	0.31	PTGR2 prostaglandin reductase 2 [Source:HGNC Symbol;Acc:HGNC:11740]
11	MORN1	1.62	-0.12	0.29	MORN1 MORN repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:11741]
12	ZNF566	1.6	-0.4	0.3	ZNF566 zinc finger protein 566 [Source:HGNC Symbol;Acc:HGNC:11742]
13	PLCL2	1.6	-0.12	0.4	PLCL2 phospholipase C-like 2 [Source:HGNC Symbol;Acc:HGNC:11743]
14	PTGES3L	1.6	-0.06	0.32	PTGES3L prostaglandin E synthase 3 (cytosolic)-like [Source:HGNC Symbol;Acc:HGNC:11744]
15	HAUS3	1.57	-0.34	0.41	HAUS3 HAUS augmin-like complex, subunit 3 [Source:HGNC Symbol;Acc:HGNC:11745]
16	HSBP1L1	1.56	-0.25	0.26	HSBP1L1 heat shock factor binding protein 1-like 1 [Source:HGNC Symbol;Acc:HGNC:11746]
17	FGD6	1.56	-0.11	0.28	FGD6 FYVE, RhoGEF and PH domain containing 6 [Source:HGNC Symbol;Acc:HGNC:11747]
18	F3	1.55	-0.16	0.37	F3 coagulation factor III (thromboplastin, tissue factor) [Source:HGNC Symbol;Acc:HGNC:11748]
19	GPR98	1.54	-0.17	0.28	GPR98 G-protein-coupled receptor 98 [Source:HGNC Symbol;Acc:HGNC:11749]
20	PLAUR	1.54	-0.14	0.25	PLAUR plasminogen activator, urokinase receptor [Source:HGNC Symbol;Acc:HGNC:11750]

Geneset Overrepresentation

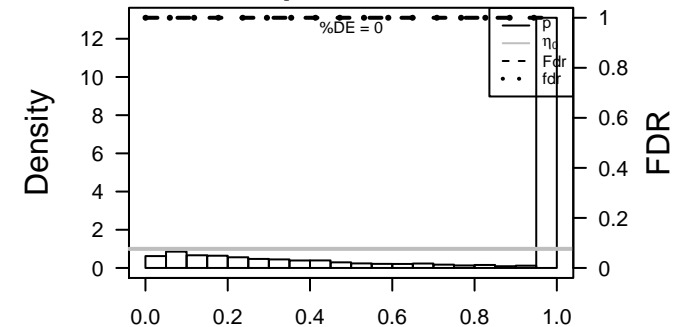
Rank	p-value	#in/all	Geneset
1	7e-07	11 / 218	GSE# BILD_E2F3_ONCOGENIC_SIGNATURE
2	1e-04	4 / 36	GSE# JAERVINEN_AMPLIFIED_IN_LARYNGEAL_CANCER
3	2e-04	3 / 15	GSE# COLLIS_PRKDC_REGULATORS
4	2e-04	3 / 16	GSE# BIOCARTA_EIF_PATHWAY
5	3e-04	3 / 17	GSE# REACTOME_G_BETA_GAMMA_SIGNALLING_THROUGH_PLG_BETA
6	4e-04	4 / 47	GSE# SUNG_METASTASIS_STROMA_DN
7	5e-04	4 / 49	GSE# SANSOM_WNT_PATHWAY_REQUIRE_MYC
8	5e-04	6 / 135	GSE# WHITFIELD_CELL_CYCLE_G1_S
9	7e-04	3 / 24	GSE# REACTOME_G_PROTEIN_BETA_GAMMA_SIGNALLING
10	8e-04	3 / 25	GSE# REACTOME_ACTIVATION_OF_KAINATE_RECEPTORS_UPON GLUTAMATE
11	9e-04	33 / 2577	CC nucleoplasm
12	1e-03	19 / 1192	GSE# KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
13	1e-03	83 / 9020	Brain Overlap_fetal_midbrain_ReprPCWk
14	1e-03	4 / 65	GSE# REACTOME_OPIOID_SIGNALLING
15	1e-03	3 / 30	GSE# WONG_IFNA2_RESISTANCE_DN
16	2e-03	2 / 8	GSE# SMID_BREAST_CANCER_RELAPSE_IN_LIVER_DN
17	2e-03	3 / 32	GSE# DOANE_BREAST_CANCER_ESR1_DN
18	2e-03	6 / 171	GSE# REACTOME_METABOLISM_OF_RNA
19	2e-03	2 / 9	GSE# GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_LIGHTY
20	2e-03	21 / 1460	GSE# PUJANA_BRCA1_PCC_NETWORK
21	3e-03	2 / 12	GSE# HASINA_NOL7_TARGETS_DN
22	3e-03	2 / 12	GSE# DISTECHE_ESCAPED_FROM_X_INACTIVATION
23	4e-03	13 / 747	CC nucleolus
24	4e-03	6 / 199	Color Lembecke_TCGA_meth_kmeans_A_Cluster4_DN
25	4e-03	14 / 840	GSE# GEORGES_TARGETS_OF_MIR192_AND_MIR215
26	4e-03	2 / 13	GSE# HASINA_NOL7_TARGETS_UP
27	5e-03	9 / 425	GSE# TOYOTA_TARGETS_OF_MIR34B_AND_MIR34C
28	5e-03	3 / 45	GSE# PID_TXA2PATHWAY
29	5e-03	3 / 45	GSE# ABRAMSON_INTERACT_WITH_AIRE
30	5e-03	2 / 14	BP digestive tract morphogenesis
31	5e-03	2 / 14	GSE# LEE_LIVER_CANCER_HEPATOBLAST
32	5e-03	4 / 92	CC early endosome membrane
33	5e-03	3 / 47	GSE# REACTOME_METABOLISM_OF_NON_CODING_RNA
34	5e-03	12 / 687	BP gene expression
35	5e-03	2 / 15	CC U1 snRNP
36	5e-03	2 / 15	GSE# PID_INTEGRIN5_PATHWAY
37	5e-03	2 / 15	GSE# REACTOME_PROSTACYCLIN_SIGNALLING_THROUGH_PROSTACYCLIN
38	5e-03	2 / 15	GSE# MAINA_VHL_TARGETS_DN
39	6e-03	3 / 48	BP activation of phospholipase C activity
40	6e-03	4 / 96	GSE# REACTOME_NEUROTRANSMITTER_RECEPTOR_BINDING_AND_D

Overview Map

Spot



p-values



Rank	p-value	#in/all	Geneset
1	0.0006	100	upregulated genes meth UP
2	0.0006	100	downregulated genes meth DOWN
3	0.0006	100	ESCHENDORFF_age_hypermethylated
4	0.0006	100	
5	0.0006	100	
6	0.0006	100	
7	0.0006	100	
8	0.0006	100	
9	0.0006	100	
10	0.0006	100	
11	0.0006	100	
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14	0.0006	100	
15	0.0006	100	
16	0.0006	100	
17	0.0006	100	
18	0.0006	100	
19	0.0006	100	
20	0.0006	100	
21	0.0006	100	
22	0.0006	100	
23	0.0006	100	
24	0.0006	100	
25	0.0006	100	
26	0.0006	100	
27	0.0006	100	
28	0.0006	100	
29	0.0006	100	
30	0.0006	100	
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37	0.0006	100	
38	0.0006	100	
39	0.0006	100	
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42	0.0006	100	
43	0.0006	100	
44	0.0006	100	
45	0.0006	100	
46	0.0006	100	
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91	0.0006	100	
92	0.0006	100	
93	0.0006	100	
94	0.0006	100	
95	0.0006	100	
96	0.0006	100	
97	0.0006	100	
98	0.0006	100	
99	0.0006	100	
100	0.0006	100	

Rank	p-value	#in/all	Geneset
1	0.0006	100	CDK13
2	0.0006	100	LIT COMMON CANCER GENES
3	0.0006	100	RHO GTPase CANCER META_SIGNATURE
4	0.0006	100	WANG_EA_OB
5	0.0006	100	CEMTES_modul10
6	0.0006	100	CEMTES_modul11
7	0.0006	100	CEMTES_modul12
8	0.0006	100	CEMTES_modul13
9	0.0006	100	CEMTES_modul14
10	0.0006	100	CEMTES_modul15
11	0.0006	100	CEMTES_modul16
12	0.0006	100	CEMTES_modul17
13	0.0006	100	CEMTES_modul18
14	0.0006	100	CEMTES_modul19
15	0.0006	100	CEMTES_modul20
16	0.0006	100	CEMTES_modul21
17	0.0006	100	CEMTES_modul22
18	0.0006	100	CEMTES_modul23
19	0.0006	100	CEMTES_modul24
20	0.0006	100	CEMTES_modul25
21	0.0006	100	CEMTES_modul26
22	0.0006	100	CEMTES_modul27
23	0.0006	100	CEMTES_modul28
24	0.0006	100	CEMTES_modul29
25	0.0006	100	CEMTES_modul30
26	0.0006	100	CEMTES_modul31
27	0.0006	100	CEMTES_modul32
28	0.0006	100	CEMTES_modul33
29	0.0006	100	CEMTES_modul34
30	0.0006	100	CEMTES_modul35
31	0.0006	100	CEMTES_modul36
32	0.0006	100	CEMTES_modul37
33	0.0006	100	CEMTES_modul38
34	0.0006	100	CEMTES_modul39
35	0.0006	100	CEMTES_modul40
36	0.0006	100	CEMTES_modul41
37	0.0006	100	CEMTES_modul42
38	0.0006	100	CEMTES_modul43
39	0.0006	100	CEMTES_modul44
40	0.0006	100	CEMTES_modul45
41	0.0006	100	CEMTES_modul46
42	0.0006	100	CEMTES_modul47
43	0.0006	100	CEMTES_modul48
44	0.0006	100	CEMTES_modul49
45	0.0006	100	CEMTES_modul50
46	0.0006	100	CEMTES_modul51
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49	0.0006	100	CEMTES_modul54
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51	0.0006	100	CEMTES_modul56
52	0.0006	100	CEMTES_modul57
53	0.0006	100	CEMTES_modul58
54	0.0006	100	CEMTES_modul59
55	0.0006	100	CEMTES_modul60
56	0.0006	100	CEMTES_modul61
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60	0.0006	100	CEMTES_modul65
61	0.0006	100	CEMTES_modul66
62	0.0006	100	CEMTES_modul67
63	0.0006	100	CEMTES_modul68
64	0.0006	100	CEMTES_modul69
65	0.0006	100	CEMTES_modul70
66	0.0006	100	CEMTES_modul71
67	0.0006	100	CEMTES_modul72
68	0.0006	100	CEMTES_modul73
69	0.0006	100	CEMTES_modul74
70	0.0006	100	CEMTES_modul75
71	0.0006	100	CEMTES_modul76
72	0.0006	100	CEMTES_modul77
73	0.0006	100	CEMTES_modul78
74	0.0006	100	CEMTES_modul79
75	0.0006	100	CEMTES_modul80
76	0.0006	100	CEMTES_modul81
77	0.0006	100	CEMTES_modul82
78	0.0006	100	CEMTES_modul83
79	0.0006	100	CEMTES_modul84
80	0.0006	100	CEMTES_modul85
81	0.0006	100	CEMTES_modul86
82	0.0006	100	CEMTES_modul87
83	0.0006	100	CEMTES_modul88
84	0.0006	100	CEMTES_modul89
85	0.0006	100	CEMTES_modul90
86	0.0006	100	CEMTES_modul91
87	0.0006	100	CEMTES_modul92
88	0.0006	100	CEMTES_modul93
89	0.0006	100	CEMTES_modul94
90	0.0006	100	CEMTES_modul95
91	0.0006	100	CEMTES_modul96
92	0.0006	100	CEMTES_modul97
93	0.0006	100	CEMTES_modul98
94	0.0006	100	CEMTES_modul99
95	0.0006	100	CEMTES_modul100

Rank	p-value	#in/all	Geneset
1	0.0006	100	Quisico_Colon
2	0.0006	100	Quisico_Colon
3	0.0006	100	Quisico_Colon
4	0.0006	100	Quisico_Colon
5	0.0006	100	Quisico_Colon
6	0.0006	100	Quisico_Colon
7	0.0006	100	Quisico_Colon
8	0.0006	100	Quisico_Colon
9	0.0006	100	Quisico_Colon
10	0.0006	100	Quisico_Colon
11	0.0006	100	Quisico_Colon
12	0.0006	100	Quisico_Colon
13	0.0006	100	Quisico_Colon
14	0.0006	100	Quisico_Colon
15	0.0006	100	Quisico_Colon
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17	0.0006	100	Quisico_Colon
18	0.0006	100	Quisico_Colon
19	0.0006	100	Quisico_Colon
20	0.0006	100	Quisico_Colon
21	0.0006	100	Quisico_Colon
22	0.0006	100	Quisico_Colon
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24	0.0006	100	Quisico_Colon
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26	0.0006	100	Quisico_Colon
27	0.0006	100	Quisico_Colon
28	0.0006	100	Quisico_Colon
29	0.0006	100	Quisico_Colon
30	0.0006	100	Quisico_Colon
31	0.0006	100	Quisico_Colon
32	0.0006	100	Quisico_Colon
33	0.0006	100	Quisico_Colon
34	0.0006	100	Quisico_Colon
35	0.0006	100	Quisico_Colon
36	0.0006	100	Quisico_Colon
37	0.0006	100	Quisico_Colon
38	0.0006	100	Quisico_Colon
39	0.0006	100	Quisico_Colon
40	0.0006	100	Quisico_Colon
41	0.0006	100	Quisico_Colon
42	0.0006	100	Quisico_Colon
43	0.0006	100	Quisico_Colon
44	0.0006	100	Quisico_Colon
45	0.0006	100	Quisico_Colon
46	0.0006	100	Quisico_Colon
47	0.0006	100	Quisico_Colon
48	0.0006	100	Quisico_Colon
49	0.0006	100	Quisico_Colon
50	0.0006	100	Quisico_Colon
51	0.0006	100	Quisico_Colon
52	0.0006	100	Quisico_Colon
53	0.0006	100	Quisico_Colon
54	0.0006	100	Quisico_Colon
55	0.0006	100	Quisico_Colon
56	0.0006	100	Quisico_Colon
57	0.0006	100	Quisico_Colon
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60	0.0006	100	Quisico_Colon
61	0.0006	100	Quisico_Colon
62	0.0006	100	Quisico_Colon
63	0.0006	100	Quisico_Colon
64	0.0006	100	Quisico_Colon
65	0.0006	100	Quisico_Colon
66	0.0006	100	Quisico_Colon
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69	0.0006	100	Quisico_Colon
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71	0.0006	100	Quisico_Colon
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73	0.0006	100	Quisico_Colon
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75	0.0006	100	Quisico_Colon
76	0.0006	100	Quisico_Colon
77	0.0006	100	Quisico_Colon
78	0.0006	100	Quisico_Colon
79	0.0006	100	Quisico_Colon
80	0.0006	100	Quisico_Colon
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82	0.0006	100	Quisico_Colon
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84	0.0006	100	Quisico_Colon
85	0.0006	100	Quisico_Colon
86	0.0006	100	Quisico_Colon
87	0.0006	100	Quisico_Colon
88	0.0006	100	Quisico_Colon
89	0.0006	100	Quisico_Colon
90	0.0006	100	Quisico_Colon
91	0.0006	100	Quisico_Colon
92	0.0006	100	Quisico_Colon
93	0.0006	100	Quisico_Colon
94	0.0006	100	Quisico_Colon
95	0.0006	100	Quisico_Colon
96	0.0006	100	Quisico_Colon
97	0.0006	100	Quisico_Colon
98	0.0006	100	Quisico_Colon
99	0.0006	100	Quisico_Colon
100	0.0006	100	Quisico_Colon

Rank	p-value	#in/all	Geneset
1	0.0006	100	GENESET ONCOGENIC SIGNATURE
2	0.0006	100	HERTYNEN_HMPF_PATHWAY
3	0.0006	100	HERTYNEN_HMPF_PATHWAY
4	0.0006	100	HERTYNEN_HMPF_PATHWAY
5	0.0006	100	HERTYNEN_HMPF_PATHWAY
6	0.0006	100	HERTYNEN_HMPF_PATHWAY
7	0.0006	100	HERTYNEN_HMPF_PATHWAY
8	0.0006	100	HERTYNEN_HMP

Correlation Clusters

Spot Summary: E

metagenes = 43
genes = 442

<r> metagenes = 0.94
<r> genes = 0.21
beta: r2= 5.25 / log p= -Inf

samples with spot = 24 (26.1 %)
MSC1 : 23 (54.8 %)
MSC3 : 1 (4 %)

Spot Genelist

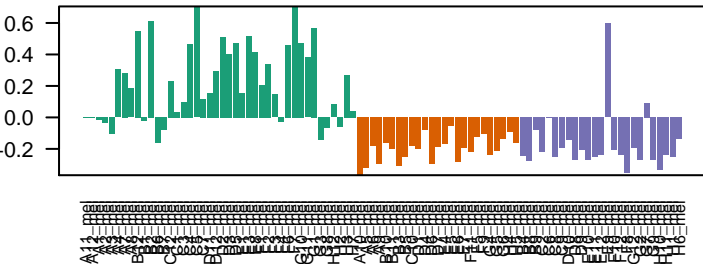
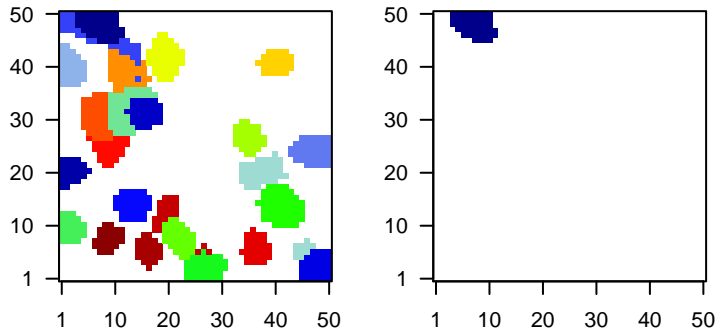
Rank	ID	max e	r	min e	Description
					Symbol
1	HTN1	2.69	-0.09	0.35	HTN1 histatin 1 [Source:HGNC Symbol;Acc:HGNC:5283]
2	UBE2C	2.22	-1.05	0.87	UBE2C ubiquitin-conjugating enzyme E2C [Source:HGNC Symbol;Acc:HGNC:5283]
3	NUF2	2.2	-0.57	0.84	NUF2 NUF2, NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:5283]
4	CDK1	2.16	-1.11	0.84	CDK1 cyclin-dependent kinase 1 [Source:HGNC Symbol;Acc:HGNC:5283]
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:77]
7	PLK1	2.09	-0.46	0.65	PLK1 polo-like kinase 1 [Source:HGNC Symbol;Acc:HGNC:9077]
8	TMEM71	2.04	-0.12	0.25	TMEM71 transmembrane protein 71 [Source:HGNC Symbol;Acc:HGNC:1722]
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:11390]
11	CDC20	2	-0.67	0.71	CDC20 cell division cycle 20 [Source:HGNC Symbol;Acc:HGNC:1722]
12	KIF20A	1.98	-0.39	0.74	KIF20A kinesin family member 20A [Source:HGNC Symbol;Acc:HGNC:11390]
13	NDC80	1.96	-0.62	0.87	NDC80 NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:5283]
14	DLGAP5	1.93	-0.47	0.78	DLGAP5 discs, large (Drosophila) homolog-associated protein 5 [Source:HGNC Symbol;Acc:HGNC:11390]
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:11390]
17	ITGA6	1.91	-0.26	0.33	ITGA6 integrin, alpha 6 [Source:HGNC Symbol;Acc:HGNC:6142]
18	SGOL1	1.91	-0.72	0.75	SGOL1 shugoshin-like 1 (S. pombe) [Source:HGNC Symbol;Acc:HGNC:11390]
19	HIST1H4E	1.9	-0.46	0.45	HIST1H4E histone cluster 1, H4e [Source:HGNC Symbol;Acc:HGNC:471]
20	FCGR2A	1.9	-0.23	0.29	FCGR2A Fc fragment of IgG, low affinity IIa, receptor (CD32) [Source:HGNC Symbol;Acc:HGNC:11390]

Geneset Overrepresentation

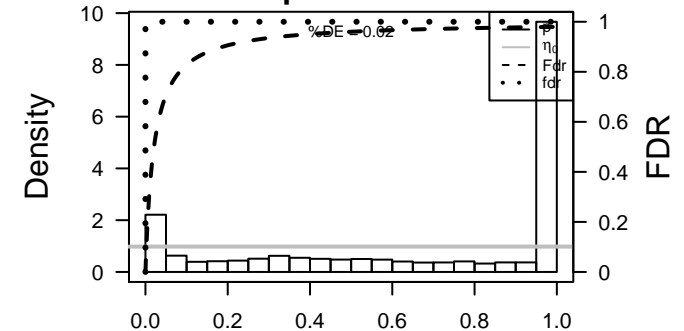
Rank	p-value	#in/all	Geneset
1	1e-99	95 / 142	Glio WILLSCHER_GBM_Verhaak-CL_up (C)
2	1e-99	161 / 550	GSE# GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
3	1e-93	153 / 700	GSE# MARSON_BOUND_BY_E2F4_UNSTIMULATED
4	2e-87	140 / 616	GSE# BENPORATH_CYCLING_GENES
5	5e-85	79 / 139	GSE# ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
6	1e-84	181 / 1192	GSE# KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
7	5e-83	11 / 16	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
8	1e-79	116 / 436	GSE# SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
9	7e-77	99 / 305	GSE# DUTERTRE_ESTRADIOL_RESPONSE_24HR_UP
10	9e-76	90 / 242	GSE# KOBAYASHI_EGFR_SIGNALING_24HR_DN
11	3e-75	96 / 291	GSE# HORIUCHI_WTAP_TARGETS_DN
12	9e-72	162 / 1110	BP cell cycle
13	1e-71	72 / 145	GSE# CHANG_CYCLING_GENES
14	6e-71	150 / 944	GSE# NUYTEN_EZH2_TARGETS_DN
15	6e-71	170 / 1251	GSE# DODD_NASOPHARYNGEAL_CARCINOMA_DN
16	2e-70	73 / 155	GSE# HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP
17	2e-69	94 / 312	BP mitotic nuclear division
18	2e-66	102 / 409	BP cell division
19	2e-66	100 / 390	GSE# PUJANA_BRCA2_PCC_NETWORK
20	1e-62	74 / 196	HM HALLMARK_G2M_CHECKPOINT
21	1e-60	97 / 412	BP mitotic cell cycle
22	4e-58	67 / 170	GSE# WHITFIELD_CELL_CYCLE_G2
23	5e-58	57 / 110	GSE# WHITEFORD_PEDIATRIC_CANCER_MARKERS
24	1e-57	71 / 201	GSE# WHITFIELD_CELL_CYCLE_G2_M
25	4e-57	59 / 124	GSE# ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR
26	6e-57	79 / 270	GSE# BASAKI_YBX1_TARGETS_UP
27	4e-55	127 / 862	GSE# JOHNSTONE_PARVB_TARGETS_3_DN
28	6e-55	53 / 99	GSE# LEE_EARLY_T_LYMPHOCYTE_UP
29	2e-54	68 / 197	HM HALLMARK_E2F_TARGETS
30	3e-53	97 / 489	Cancer Lembcke_Normal vs Adenoma
31	3e-52	62 / 165	GSE# CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP
32	4e-52	81 / 327	GSE# BLUM_RESPONSE_TO_SALIRASIB_DN
33	1e-51	48 / 84	GSE# MORI_LARGE_PRE_BII_LYMPHOCYTE_UP
34	3e-51	68 / 216	GSE# MARKEY_RB1_ACUTE_LOF_DN
35	5e-51	50 / 96	GSE# CROONQUIST_IL6_DEPRIVATION_DN
36	3e-50	112 / 724	GSE# PUJANA_CHEK2_PCC_NETWORK
37	4e-50	85 / 388	GSE# REACTOME_CELL_CYCLE
38	1e-48	59 / 162	GSE# GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP
39	2e-48	82 / 373	GSE# VECCHI_GASTRIC_CANCER_EARLY_UP
40	4e-48	52 / 118	GSE# ODONNELL_TFRC_TARGETS_DN

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: F

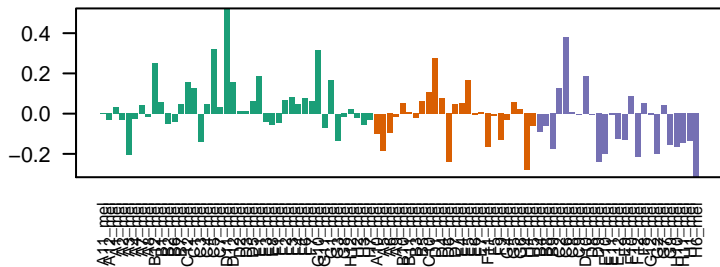
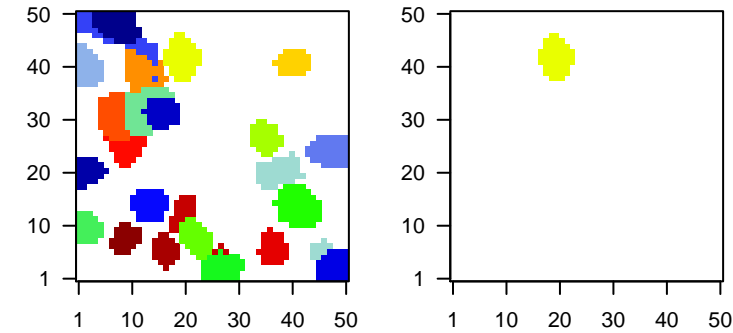
metagenes = 45
genes = 157

<r> metagenes = 0.93
<r> genes = 0.09
beta: r2= 0.79 / log p= -Inf

samples with spot = 10 (10.9 %)
MSC1 : 6 (14.3 %)
MSC2 : 2 (8 %)
MSC3 : 2 (8 %)

Overview Map

Spot

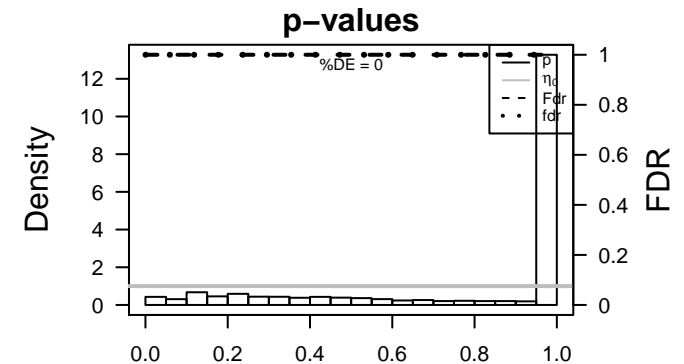


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ERI2	1.89	-0.37	0.35	ERI2 ERI1 exoribonuclease family member 2 [Source:HGNC Synt
2	SHQ1	1.79	-0.67	0.29	SHQ1 SHQ1, H/ACA ribonucleoprotein assembly factor [Source:HG
3	USP41	1.78	-0.26	0.29	USP41 ubiquitin specific peptidase 41 [Source:HGNC Symbol;Acc:H
4	RFX2	1.78	-0.41	0.34	RFX2 regulatory factor X, 2 (influences HLA class II expression) [Sc
5	AURKC	1.77	-0.17	0.31	AURKC aurora kinase C [Source:HGNC Symbol;Acc:HGNC:11391]
6	FAXC	1.75	-0.16	0.43	FAXC failed axon connections homolog (Drosophila) [Source:HGNC
7	AP3M2	1.69	-0.65	0.34	AP3M2 adaptor-related protein complex 3, mu 2 subunit [Source:HGI
8	LPAR2	1.66	-0.05	0.33	LPAR2 lysophosphatidic acid receptor 2 [Source:HGNC Symbol;Acc:
9	UCN2	1.65	-0.02	0.37	UCN2 urocortin 2 [Source:HGNC Symbol;Acc:HGNC:18414]
10	DISP1	1.64	-0.17	0.29	DISP1 dispatched homolog 1 (Drosophila) [Source:HGNC Symbol;A
11	ZNF823	1.63	-0.26	0.26	ZNF823 zinc finger protein 823 [Source:HGNC Symbol;Acc:HGNC:30
12	MGAT1	1.62	-0.49	0.22	MGAT1 mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglu
13	CCDC101	1.62	-0.38	0.44	CCDC101boiled-coil domain containing 101 [Source:HGNC Symbol;Ac
14	DCLK3	1.59	-0.03	0.39	DCLK3 doublecortin-like kinase 3 [Source:HGNC Symbol;Acc:HGNC
15	SPINK4	1.57	-0.02	0.37	SPINK4 serine peptidase inhibitor, Kazal type 4 [Source:HGNC Symb
16	C11orf74	1.56	-0.37	0.35	C11orf74chromosome 11 open reading frame 74 [Source:HGNC Synt
17	NDUFAF7	1.56	-0.7	0.33	NDUFAF7NADH dehydrogenase (ubiquinone) complex I, assembly fact
18	ZBTB17	1.53	-0.51	0.2	ZBTB17 zinc finger and BTB domain containing 17 [Source:HGNC Sy
19	HDX	1.53	-0.3	0.3	HDX highly divergent homeobox [Source:HGNC Symbol;Acc:HGNC
20	COO3	1.5	-0.41	0.38	COO3 coenzyme Q3 methyltransferase [Source:HGNC Symbol;Acc:

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-07	112 / 7592	Lymp HOPE_Active_promoter
2	2e-07	24 / 687	Chr Chr 6
3	5e-07	104 / 6929	Lymp HOPE_Txn_elongation
4	8e-06	90 / 5940	Brain Overlap_fetal_midbrain_HetRpts
5	9e-06	117 / 8580	Colon TxWk_Colon
6	9e-06	124 / 9330	Brain Overlap_fetal_midbrain_ReprPC
7	2e-05	80 / 5184	Lymp HOPE_Txn_transition
8	3e-05	124 / 9482	Colon TssA_Colon
9	5e-05	14 / 376	GSE/ OSMAN_BLADDER_CANCER_UP
10	5e-05	119 / 9027	Colon Tx_Colon
11	7e-05	12 / 294	miRN hsa-miR-561
12	1e-04	4 / 25	MF ATP-dependent helicase activity
13	2e-04	99 / 7209	Lymp HOPE_Weak_promoter
14	5e-04	3 / 15	BP Golgi to plasma membrane transport
15	6e-04	11 / 322	BP mitochondrion organization
16	7e-04	4 / 38	TF Tf: VAQUERIZAS_Testis
17	9e-04	80 / 5696	CC nucleus
18	1e-03	36 / 2037	MF DNA binding
19	1e-03	3 / 21	GSE/ REACTOME_INFLUENZA_VIRAL_RNA_TRANSCRIPTION_AND_REPLIC
20	2e-03	12 / 416	GSE/ SHEN_SMARCA2_TARGETS_UP
21	2e-03	3 / 23	BP spliceosomal complex assembly
22	2e-03	88 / 6564	Lymp HOPE_Strong_enhancer
23	2e-03	19 / 862	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
24	2e-03	113 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
25	2e-03	42 / 2577	CC nucleoplasm
26	2e-03	4 / 53	GSE/ POMEROY_MEDULLOBLASTOMA_DESMOPLASIC_VS_CLASSIC_UP
27	2e-03	30 / 1664	BP transcription, DNA-templated
28	2e-03	78 / 5693	Lymp HOPE_Weak_enhancer
29	3e-03	3 / 26	BP positive regulation of intrinsic apoptotic signaling pathway
30	3e-03	4 / 56	GSE/ GUO_HEX_TARGETS_DN
31	3e-03	3 / 28	GSE/ YAMASHITA_LIVER_CANCER_WITH_EPCAM_UP
32	3e-03	10 / 337	GSE/ SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_UP
33	3e-03	8 / 233	GSE/ PENG_RAPAMYCIN_RESPONSE_DN
34	3e-03	18 / 840	GSE/ GEORGES_TARGETS_OF_MIR192_AND_MIR215
35	3e-03	3 / 29	BP sphingolipid biosynthetic process
36	4e-03	112 / 9020	Brain Overlap_fetal_midbrain_ReprPCWk
37	4e-03	127 / 10605	CC intracellular
38	5e-03	4 / 64	GSE/ SESTO_RESPONSE_TO_UV_C1
39	5e-03	12 / 476	GSE/ IVANOVA_HEMATOPOIESIS_EARLY_PROGENITOR
40	5e-03	3 / 33	GSE/ DORSAM_HOXA9_TARGETS_UP



Correlation Clusters

Spot Summary: G

metagenes = 33
genes = 290

<r> metagenes = 0.92
<r> genes = 0.21
beta: r2= 5.98 / log p= -Inf

samples with spot = 31 (33.7 %)
MSC1 : 31 (73.8 %)

Spot Genelist

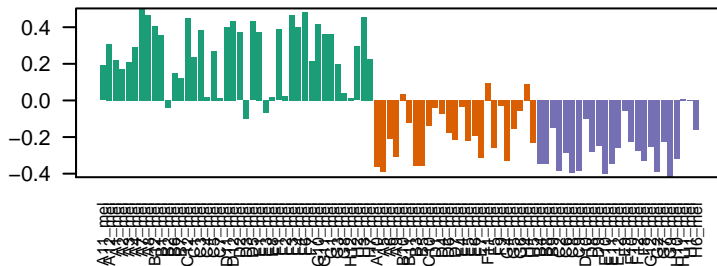
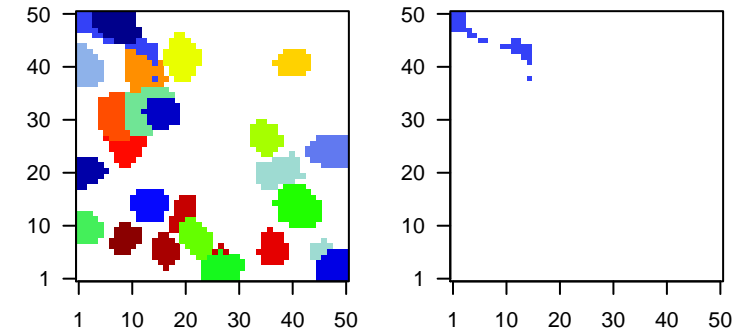
Rank	ID	max e	r	min e	Description
1	CEP97	2.41	-1.21	0.26	CEP97 centrosomal protein 97kDa [Source:HGNC Symbol;Acc:HGNC:10000]
2	SMCO4	2.1	-0.21	0.34	SMCO4 single-pass membrane protein with coiled-coil domains 4 [Source:HGNC Symbol;Acc:HGNC:10000]
3	JMJD7	2.04	-0.18	0.24	JMJD7 jumonji domain containing 7 [Source:HGNC Symbol;Acc:HGNC:10000]
4	C4orf33	1.97	-0.26	0.29	C4orf33 chromosome 4 open reading frame 33 [Source:HGNC Symbol;Acc:HGNC:10000]
5	RNASEH2B	1.84	-0.73	0.47	RNASEH2B ribonuclease H2, subunit B [Source:HGNC Symbol;Acc:HGNC:10000]
6	RAD51	1.81	-0.59	0.62	RAD51 RAD51 recombinase [Source:HGNC Symbol;Acc:HGNC:9811]
7	KNTC1	1.78	-1.13	0.64	KNTC1 kinetochore associated 1 [Source:HGNC Symbol;Acc:HGNC:10000]
8	ZNF519	1.76	-0.35	0.39	ZNF519 zinc finger protein 519 [Source:HGNC Symbol;Acc:HGNC:30000]
9	POLE	1.73	-0.5	0.57	POLE polymerase (DNA directed), epsilon, catalytic subunit [Source:HGNC Symbol;Acc:HGNC:10000]
10	ZNF101	1.71	-0.32	0.24	ZNF101 zinc finger protein 101 [Source:HGNC Symbol;Acc:HGNC:12000]
11	NCAPH2	1.68	-0.47	0.42	NCAPH2 non-SMC condensin II complex, subunit H2 [Source:HGNC Symbol;Acc:HGNC:10000]
12	ORC1	1.67	-0.3	0.59	ORC1 origin recognition complex, subunit 1 [Source:HGNC Symbol;Acc:HGNC:10000]
13	TIFA	1.66	-0.19	0.52	TIFA TRAF-interacting protein with forkhead-associated domain [Source:HGNC Symbol;Acc:HGNC:10000]
14	DTL	1.66	-0.94	0.84	DTL denticleless E3 ubiquitin protein ligase homolog (Drosophila) [Source:HGNC Symbol;Acc:HGNC:10000]
15	CCNE2	1.65	-0.54	0.71	CCNE2 cyclin E2 [Source:HGNC Symbol;Acc:HGNC:1590]
16	MTBP	1.64	-0.38	0.33	MTBP MDM2 binding protein [Source:HGNC Symbol;Acc:HGNC:7400]
17	BRIP1	1.64	-0.35	0.57	BRIP1 BRCA1 interacting protein C-terminal helicase 1 [Source:HGNC Symbol;Acc:HGNC:10000]
18	CHEK1	1.64	-0.5	0.56	CHEK1 checkpoint kinase 1 [Source:HGNC Symbol;Acc:HGNC:1925]
19	TAF1A	1.63	-0.49	0.34	TAF1A TATA box binding protein (TBP)-associated factor, RNA polymerase II [Source:HGNC Symbol;Acc:HGNC:10000]
20	BARD1	1.62	-1.09	0.73	BARD1 BRCA1 associated RING domain 1 [Source:HGNC Symbol;Acc:HGNC:10000]

Geneset Overrepresentation

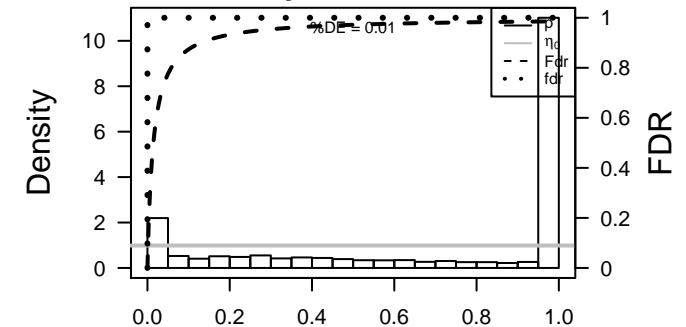
Rank	p-value	#in/all	Geneset
1	5e-91	95 / 305	GSE/ DUTERTRE_ESTRADIOL_RESPONSE_24HR_UP
2	1e-86	149 / 1192	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
3	5e-82	109 / 550	GSE/ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
4	1e-64	131 / 1251	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_DN
5	6e-63	72 / 267	GSE/ ZHANG_TLX_TARGETS_60HR_DN
6	1e-62	89 / 485	GSE/ CHICAS_RB1_TARGETS_SENESCENT
7	1e-60	68 / 242	GSE/ KOBAYASHI_EGFR_SIGNALING_24HR_DN
8	4e-60	63 / 197	HM HALLMARK_E2F_TARGETS
9	4e-59	99 / 700	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
10	7e-57	117 / 1110	BP cell cycle
11	3e-56	77 / 390	GSE/ PUJANA_BRCA2_PCC_NETWORK
12	4e-51	95 / 768	BP DNA metabolic process
13	5e-51	68 / 327	GSE/ BLUM_RESPONSE_TO_SALIRASIB_DN
14	8e-51	80 / 505	GSE/ BERENJENO_TRANSFORMED_BY_RHOA_UP
15	1e-48	72 / 412	BP mitotic cell cycle
16	4e-48	70 / 388	GSE/ REACTOME_CELL_CYCLE
17	7e-48	78 / 517	GSE/ FEVR_CTNNB1_TARGETS_DN
18	1e-46	65 / 335	GSE/ WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_DN
19	4e-46	62 / 301	GSE/ REACTOME_CELL_CYCLE_MITOTIC
20	8e-46	119 / 1460	GSE/ PUJANA_BRCA1_PCC_NETWORK
21	4e-45	92 / 834	GSE/ LEE_BMP2_TARGETS_DN
22	2e-44	46 / 139	BP DNA replication
23	2e-44	86 / 724	GSE/ PUJANA_CHEK2_PCC_NETWORK
24	3e-42	35 / 68	GSE/ VERNELL_RETINOBLASTOMA_PATHWAY_UP
25	3e-39	48 / 198	GSE/ FUJII_YBX1_TARGETS_DN
26	1e-38	44 / 160	GSE/ PUJANA_XPRSS_INT_NETWORK
27	2e-37	144 / 2577	CC nucleoplasm
28	3e-37	45 / 181	GSE/ REACTOME_DNA_REPLICATION
29	1e-36	72 / 609	GSE/ RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_UP
30	6e-36	34 / 87	GSE/ ZHANG_TLX_TARGETS_UP
31	1e-35	37 / 113	GSE/ PUJANA_BRCA_CENTERED_NETWORK
32	2e-35	71 / 616	GSE/ BENPORATH_CYCLING_GENES
33	2e-35	43 / 175	GSE/ PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_UP
34	3e-35	51 / 278	GSE/ MANALO_HYPOXIA_DN
35	4e-35	39 / 135	GSE/ WHITFIELD_CELL_CYCLE_G1_S
36	1e-34	42 / 171	GSE/ SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_UP
37	1e-34	85 / 944	GSE/ NUYTEN_EZH2_TARGETS_DN
38	3e-34	72 / 663	CC chromosome
39	4e-34	81 / 862	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
40	5e-34	32 / 81	GSE/ GRAHAM_NORMAL QUIESCENT_VS_NORMAL_DIVIDING_DN

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: H

metagenes = 33
genes = 112

<r> metagenes = 0.97

<r> genes = 0.27

beta: r2= 0.23 / log p= -5.89

samples with spot = 1 (1.1 %)

MSC1 : 1 (2.4 %)

Spot Genelist

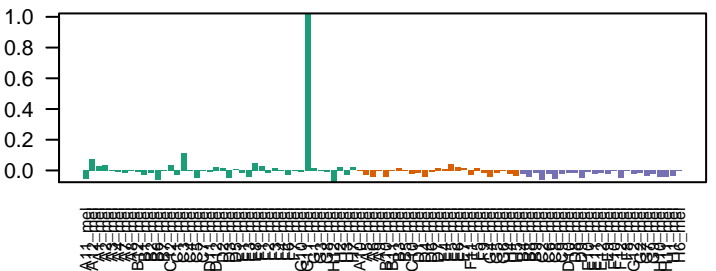
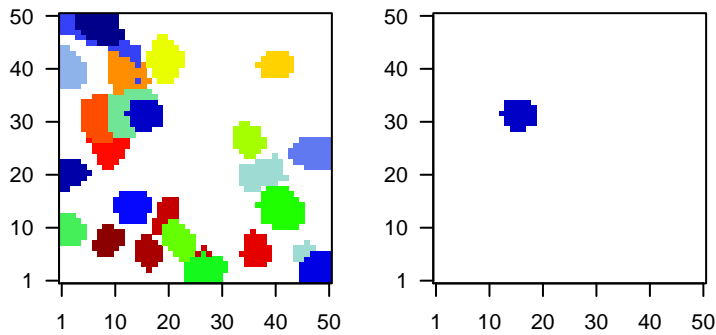
Rank	ID	max e	r	min e	Description
					Symbol
1	CACNA2D1	2.14	-0.28	0.44	CACNA2D1 calcium channel, voltage-dependent, alpha 2/delta subunit 1
2	RDH12	2.07	-0.08	0.56	RDH12 retinol dehydrogenase 12 (all-trans/9-cis/11-cis) [Source:HGNC Symbol;Acc:HGNC:13028]
3	ZNF239	1.83	-0.02	0.92	ZNF239 zinc finger protein 239 [Source:HGNC Symbol;Acc:HGNC:13028]
4	PCDH8	1.81	-0.03	0.85	PCDH8 protocadherin 8 [Source:HGNC Symbol;Acc:HGNC:8660]
5	ACP2	1.74	-0.18	0.38	ACP2 acid phosphatase 2, lysosomal [Source:HGNC Symbol;Acc:HGNC:13028]
6	ARHGAP28	1.72	-0.12	0.51	ARHGAP28 Rho GTPase activating protein 28 [Source:HGNC Symbol;Acc:HGNC:13028]
7	ZNF555	1.68	-0.17	0.38	ZNF555 zinc finger protein 555 [Source:HGNC Symbol;Acc:HGNC:28028]
8	TRPM3	1.67	-0.18	0.32	TRPM3 transient receptor potential cation channel, subfamily M, member 3
9	CSNK1G2	1.66	-0.29	0.39	CSNK1G2 casein kinase 1, gamma 2 [Source:HGNC Symbol;Acc:HGNC:13028]
10	KDM4C	1.65	-0.19	0.42	KDM4C lysine (K)-specific demethylase 4C [Source:HGNC Symbol;Acc:HGNC:13028]
11	CTD-3214H1	1.64	-0.14	0.43	
12	DDIT4L	1.61	-0.06	0.7	DDIT4L DNA-damage-inducible transcript 4-like [Source:HGNC Symbol;Acc:HGNC:13028]
13	ST3GAL5	1.6	-0.33	0.38	ST3GAL5 ST3 beta-galactoside alpha-2,3-sialyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:13028]
14	MROH8	1.59	-0.06	0.49	MROH8 maestro heat-like repeat family member 8 [Source:HGNC Symbol;Acc:HGNC:13028]
15	HOXA1	1.58	-0.05	0.67	HOXA1 homeobox A1 [Source:HGNC Symbol;Acc:HGNC:5099]
16	ITGA9	1.56	-0.14	0.5	ITGA9 integrin, alpha 9 [Source:HGNC Symbol;Acc:HGNC:6145]
17	SAMD13	1.56	-0.05	0.72	SAMD13 sterile alpha motif domain containing 13 [Source:HGNC Symbol;Acc:HGNC:13028]
18	ZNF675	1.55	-0.17	0.32	ZNF675 zinc finger protein 675 [Source:HGNC Symbol;Acc:HGNC:30028]
19	TGFA	1.54	-0.07	0.62	TGFA transforming growth factor, alpha [Source:HGNC Symbol;Acc:HGNC:13028]
20	N6AMT2	1.53	-0.2	0.4	N6AMT2 N-6 adenine-specific DNA methyltransferase 2 (putative) [Source:HGNC Symbol;Acc:HGNC:13028]

Geneset Overrepresentation

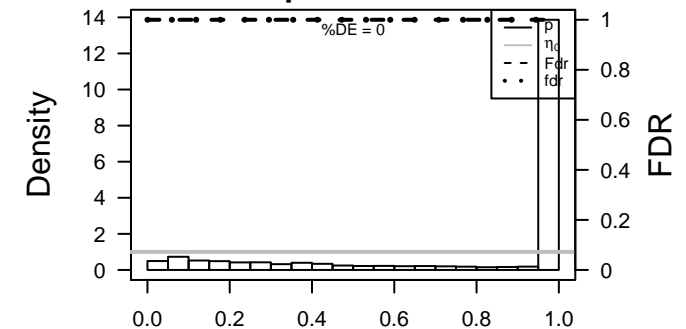
Rank	p-value	#in/all	Geneset
1	5e-06	20 / 862	Brain Overlap_fetal_midbrain_TxTrans
2	1e-05	17 / 686	Brain Overlap_fetal_midbrain_TssA
3	4e-05	11 / 336	BP neurological system process
4	8e-05	14 / 571	Colon Lemboke_TCGA-expr_kmeans_H_CIMP.H_UP_Cluster3_DN
5	8e-05	16 / 724	GSE/ BENPORATH_EED_TARGETS
6	1e-04	17 / 823	GSE/ MEISSNER_BRAIN_HCP_WITH_H3K4ME3_AND_H3K27ME3
7	2e-04	22 / 1317	Colon EnhP_Colon
8	2e-04	5 / 75	GSE/ KANG_IMMORTALIZED_BY_TERT_UP
9	2e-04	4 / 41	BP heart looping
10	3e-04	15 / 720	GSE/ BENPORATH_ES_WITH_H3K27ME3
11	3e-04	4 / 45	Glio Christensen_hypermethylated_in_primary_glioblastoma
12	4e-04	30 / 2159	Colon TssP_Colon
13	4e-04	14 / 674	GSE/ BENPORATH_SUZ12_TARGETS
14	5e-04	6 / 134	GSE/ MEISSNER_BRAIN_HCP_WITH_H3K27ME3
15	5e-04	11 / 450	MF sequence-specific DNA binding
16	5e-04	9 / 312	GSE/ MIKKELSEN_MEF_HCP_WITH_H3K27ME3
17	7e-04	4 / 54	BP positive regulation of epithelial cell proliferation
18	7e-04	7 / 199	GSE/ MIKKELSEN_NPC_HCP_WITH_H3K27ME3
19	7e-04	3 / 24	BP neural crest cell migration
20	1e-03	3 / 27	BP positive regulation of interferon-gamma production
21	1e-03	6 / 156	Cancer PanCan_PI3K_geneset_nanostring
22	1e-03	4 / 66	GSE/ KEGG_HYPERTROPHIC_CARDIOMYOPATHY_HCM
23	2e-03	3 / 31	BP inner ear development
24	2e-03	28 / 2142	Colon ReprPC_Colon
25	2e-03	7 / 233	GSE/ ACEVEDO_FGFR1_TARGETS_IN_PROSTATE_CANCER_MODEL_DN
26	2e-03	39 / 3396	Lymp HOPP_Repressed
27	2e-03	3 / 33	BP positive regulation of T cell proliferation
28	2e-03	4 / 72	GSE/ KEGG_DILATED_CARDIOMYOPATHY
29	2e-03	3 / 34	BP positive regulation of interleukin-6 production
30	2e-03	2 / 10	BP negative regulation of JUN kinase activity
31	2e-03	2 / 10	BP positive regulation of nitric-oxide synthase biosynthetic process
32	2e-03	2 / 10	BP regulation of respiratory gaseous exchange by neurological system process
33	3e-03	14 / 812	Brain Mid_Frontal_Lobe_TssP
34	3e-03	9 / 396	GSE/ BENPORATH_PRC2_TARGETS
35	3e-03	2 / 11	BP central nervous system neuron differentiation
36	3e-03	5 / 132	BP regulation of gene expression
37	3e-03	3 / 40	GSE/ RICKMAN_HEAD_AND_NECK_CANCER_F
38	3e-03	2 / 12	GSE/ MATZUK_EARLY_ANTRAL_FOLLICLE
39	4e-03	3 / 42	GSE/ KEGG_HEDGEHOG_SIGNALING_PATHWAY
40	4e-03	4 / 88	BP activation of MAPK activity

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: I

metagenes = 42
genes = 4

<r> metagenes = 0.92

<r> genes = 0.3

beta: r2= 0.18 / log p= -4.71

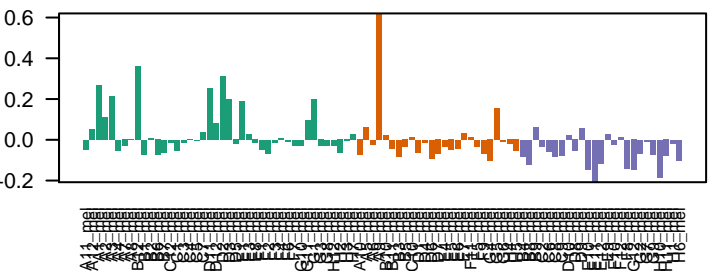
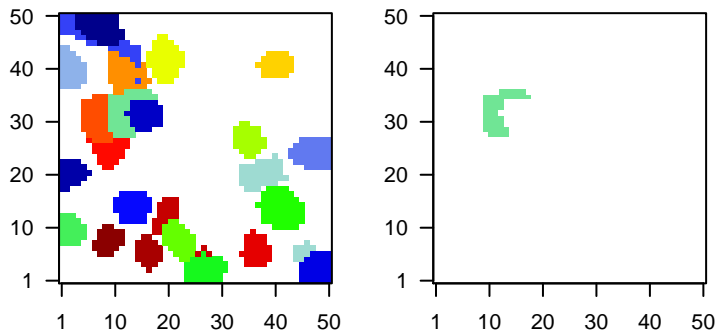
samples with spot = 9 (9.8 %)

MSC1 : 8 (19 %)

MSC2 : 1 (4 %)

Overview Map

Spot

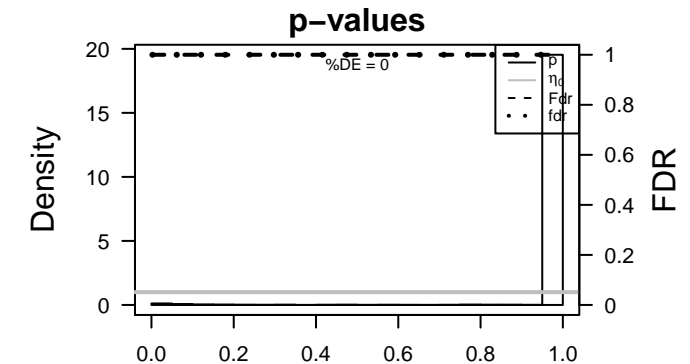


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	IQCC	1.67	-0.08	0.2	IQCC IQ motif containing C [Source:HGNC Symbol;Acc:HGNC:255
2	TPBGL	0.97	-0.07	0.29	TPBGL trophoblast glycoprotein-like [Source:HGNC Symbol;Acc:HGI
3	MSRA	0.84	-0.07	0.26	MSRA methionine sulfoxide reductase A [Source:HGNC Symbol;Acc:
4	DBI	0.33	-0.61	0.45	DBI diazepam binding inhibitor (GABA receptor modulator, acyl-C

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	0.002	1 / 8	LympI MASCQUE_GCB_UP
2	0.003	1 / 10	CC perinuclear endoplasmic reticulum
3	0.003	1 / 11	BP lateral ventricle development
4	0.003	1 / 13	GSE# FU_INTERACT_WITH_ALKBH8
5	0.004	1 / 16	BP phosphatidylcholine acyl-chain remodeling
6	0.005	1 / 17	MF fatty-acyl-CoA binding
7	0.005	1 / 20	BP behavioral fear response
8	0.005	1 / 20	BP triglyceride metabolic process
9	0.005	2 / 458	GSE# ENK_UV_RESPONSE_EPIDERMIS_DN
10	0.006	1 / 23	GSE# RUAN_RESPONSE_TO_TROGLITAZONE_UP
11	0.006	1 / 24	GSE# MCCABE_HOXC6_TARGETS_CANCER_UP
12	0.007	2 / 527	GSE# ACEVEDO_METHYLATED_IN_LIVER_CANCER_DN
13	0.008	1 / 30	BP long-term synaptic potentiation
14	0.008	1 / 31	GSE# LEIN_ASTROCYTE_MARKERS
15	0.009	2 / 597	GSE# BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_DN
16	0.009	1 / 35	BP learning or memory
17	0.010	1 / 38	GSE# BOYVAULT_LIVER_CANCER_SUBCLASS_G123_DN
18	0.010	1 / 39	BP hair follicle development
19	0.012	1 / 43	BP skin development
20	0.012	1 / 43	GSE# NADLER_OBESITY_DN
21	0.013	1 / 47	HM HALLMARK_REACTIVE_OXIGEN_SPECIES_PATHWAY
22	0.013	1 / 47	GSE# KLEIN_PRIMARY_EFFUSION_LYMPHOMA_DN
23	0.013	1 / 47	GSE# LEE_LIVER_CANCER_E2F1_DN
24	0.013	1 / 50	GSE# GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_DN
25	0.014	1 / 52	GSE# KEGG_PPAR_SIGNALING_PATHWAY
26	0.014	1 / 52	GSE# JOHANSSON_GLIOMAGENESIS_BY_PDGF_UP
27	0.015	1 / 55	GSE# WANG_PROSTATE_CANCER_ANDROGEN_INDEPENDENT
28	0.017	1 / 64	GSE# GAVIN_FOXP3_TARGETS_CLUSTER_P2
29	0.019	1 / 71	GSE# TAKAO_RESPONSE_TO_UVB_RADIATION_UP
30	0.019	1 / 71	GSE# KAYO_CALORIE_RESTRICTION_MUSCLE_DN
31	0.019	1 / 71	GSE# GAVIN_FOXP3_TARGETS_CLUSTER_P7
32	0.019	1 / 72	GSE# MORI_PRE_BI_LYMPHOCYTE_UP
33	0.020	1 / 73	GSE# RUAN_RESPONSE_TO_TNF_DN
34	0.021	1 / 77	GSE# MUNSHI_MULTIPLE_MYELOMA_UP
35	0.021	1 / 78	GSE# CHEN_LIVER_METABOLISM_QTL_CIS
36	0.021	1 / 79	GSE# NELSON_RESPONSE_TO_ANDROGEN_UP
37	0.022	1 / 83	GSE# GRADE_COLON_AND_RECTAL_CANCER_DN
38	0.025	1 / 94	HM HALLMARK_ANDROGEN_RESPONSE
39	0.027	1 / 101	BP response to oxidative stress
40	0.029	1 / 107	GSE# BYSTRYKH_HEMATOPOIESIS_STEM_CELL_QTL_CIS



Correlation Clusters

Spot Summary: J

metagenes = 36
genes = 215

<r> metagenes = 0.95
<r> genes = 0.25
beta: r2= 0.52 / log p= -15.35

samples with spot = 1 (1.1 %)
MSC2 : 1 (4 %)

Spot Genelist

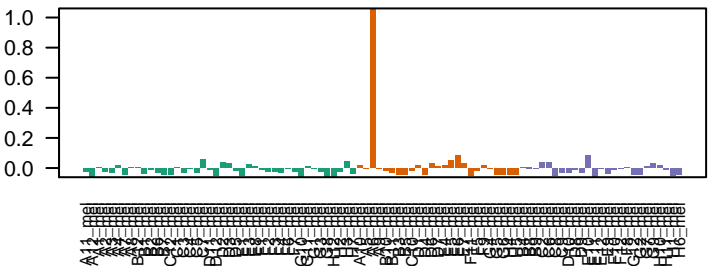
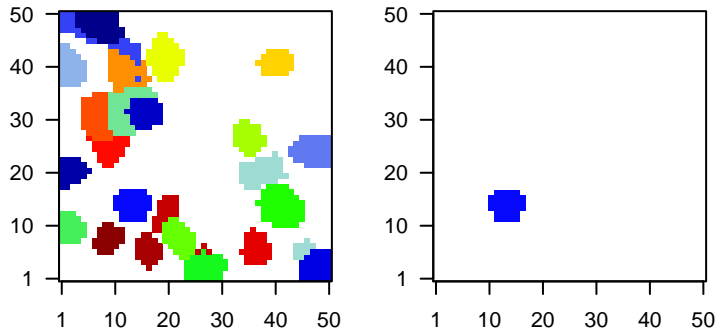
Rank	ID	max e	r	min e	Description
1	TPRN	2.31	-0.2	0.44	TPRN taperin [Source:HGNC Symbol;Acc:HGNC:26894]
2	C3orf14	2.29	-0.16	0.39	C3orf14 chromosome 3 open reading frame 14 [Source:HGNC Symbc
3	MDK	2.02	-0.1	0.54	MDK midkine (neurite growth-promoting factor 2) [Source:HGNC S
4	C10orf107	1.93	-0.08	0.67	C10orf107 chromosome 10 open reading frame 107 [Source:HGNC Syrr
5	ANKS1B	1.88	-0.13	0.64	ANKS1B ankyrin repeat and sterile alpha motif domain containing 1B [
6	MEGF10	1.88	-0.23	0.44	MEGF10 multiple EGF-like-domains 10 [Source:HGNC Symbol;Acc:H
7	ZNF442	1.86	-0.19	0.45	ZNF442 zinc finger protein 442 [Source:HGNC Symbol;Acc:HGNC:20
8	GANC	1.84	-0.25	0.37	GANC glucosidase, alpha; neutral C [Source:HGNC Symbol;Acc:HG
9	NEK3	1.8	-0.27	0.32	NEK3 NIMA-related kinase 3 [Source:HGNC Symbol;Acc:HGNC:77
10	C9orf92	1.79	-0.1	0.62	C9orf92 chromosome 9 open reading frame 92 [Source:HGNC Symbc
11	MDGA2	1.77	-0.23	0.41	MDGA2 MAM domain containing glycosylphosphatidylinositol anchor ;
12	THAP9	1.76	-0.33	0.34	THAP9 THAP domain containing 9 [Source:HGNC Symbol;Acc:HGNC
13	MCU	1.74	-0.18	0.47	MCU mitochondrial calcium uniporter [Source:HGNC Symbol;Acc:HG
14	NFKBIE	1.74	-0.22	0.3	NFKBIE nuclear factor of kappa light polypeptide gene enhancer in B-
15	SNAP25	1.72	-0.13	0.43	SNAP25 synaptosomal-associated protein, 25kDa [Source:HGNC Syr
16	ZSCAN26	1.72	-0.31	0.26	ZSCAN26 zinc finger and SCAN domain containing 26 [Source:HGNC S
17	GIT2	1.69	-0.46	0.25	GIT2 G protein-coupled receptor kinase interacting ArfGAP 2 [Sou
18	CTIF	1.67	-0.36	0.29	CTIF CBP80/20-dependent translation initiation factor [Source:HG
19	ALDH1A1	1.65	-0.08	0.91	ALDH1A1 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC
20	TTYH2	1.65	-0.14	0.49	TTYH2 tweety family member 2 [Source:HGNC Symbol;Acc:HGNC:1

Geneset Overrepresentation

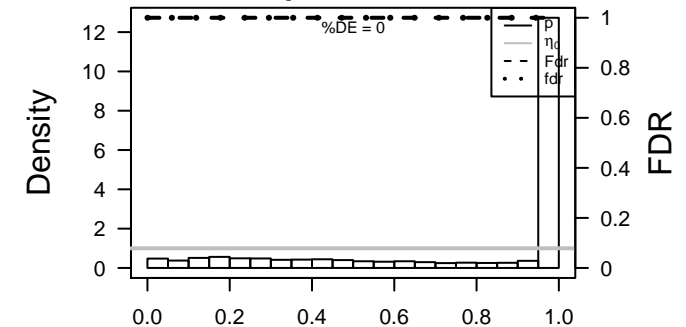
Rank	p-value	#in/all	Geneset
1	4e-06	6 / 30	Lympl TARTE_B-cell signature
2	5e-06	6 / 31	GSE/ TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_DN
3	3e-05	54 / 2159	Colon TssP_Colon
4	7e-05	37 / 1317	Colon EnhP_Colon
5	1e-04	3 / 7	Lifest DUMEAUX_Women normal BMI literature genes up
6	2e-04	14 / 314	Colon Lembcke_TCGA-meth_kmeans_E_CIMP_H_UP_
7	3e-04	5 / 41	MF phosphatase binding
8	3e-04	4 / 23	GSE/ REACTOME_OLFACTORY_SIGNALING_PATHWAY
9	5e-04	31 / 1139	TF HEBENSTREIT_low expression TF
10	5e-04	4 / 26	BP detection of chemical stimulus involved in sensory perception of smell
11	5e-04	4 / 26	MF olfactory receptor activity
12	6e-04	4 / 27	GSE/ HAHTOLA_SEZARY_SYNDROM_DN
13	6e-04	49 / 2142	Color ReprPC_Colon
14	8e-04	3 / 13	GSE/ SHIN_B_CELL_LYMPHOMA_CLUSTER_9
15	8e-04	13 / 319	Color Lembcke_TCGA-expr_kmeans_M_CIMP_H_DN
16	9e-04	44 / 1889	Color ReprPCWk_Colon
17	1e-03	5 / 53	BP response to cytokine
18	1e-03	11 / 249	GSE/ BHAT_ESR1_TARGETS_VIA_AKT1_UP
19	1e-03	25 / 884	Brain Overlap_fetal_midbrain_EnhG
20	1e-03	14 / 379	GSE/ REACTOME_SIGNALING_BY_GPCR
21	1e-03	3 / 16	BP calcium ion-dependent exocytosis
22	2e-03	9 / 185	GSE/ BHAT_ESR1_TARGETS_NOT_VIA_AKT1_UP
23	2e-03	4 / 35	CC cell periphery
24	2e-03	3 / 17	MF receptor signaling complex scaffold activity
25	2e-03	4 / 38	GSE/ BOYALT_LIVER_CANCER_SUBCLASS_G123_DN
26	2e-03	8 / 160	GSE/ WIERENGA_STAT5A_TARGETS_DN
27	2e-03	3 / 19	TF Ti VAQUERIZAS_Tonsil
28	3e-03	4 / 41	CC cleavage furrow
29	3e-03	4 / 42	GSE/ KEGG_OLFACTORY_TRANSDUCTION
30	3e-03	6 / 100	GSE/ BROWNE_HCMV_INFECTION_12HR_UP
31	4e-03	5 / 72	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_DN
32	4e-03	7 / 139	GSE/ MOHANKUMAR_TLX1_TARGETS_DN
33	4e-03	2 / 7	GSE/ DER_IFN_BETA_RESPONSE_DN
34	4e-03	8 / 177	HM HALLMARK_TNFA_SIGNALING_VIA_NFKB
35	4e-03	21 / 775	CC extracellular space
36	4e-03	11 / 300	GSE/ REACTOME_GPCR_DOWNSTREAM_SIGNALING
37	5e-03	9 / 218	GSE/ SENESE_HDAC1_TARGETS_DN
38	5e-03	8 / 179	GSE/ NABA_SECRETED_FACTORS
39	6e-03	3 / 26	GSE/ REACTOME_CHEMOKINE_RECEPTORS_BIND_CHEMOKINES
40	7e-03	3 / 27	MF chemokine activity

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: K

metagenes = 26
genes = 272

<r> metagenes = 0.96
<r> genes = 0.14
beta: r2= 1.96 / log p= -Inf

samples with spot = 20 (21.7 %)
MSC1 : 12 (28.6 %)
MSC2 : 3 (12 %)
MSC3 : 5 (20 %)

Spot Genelist

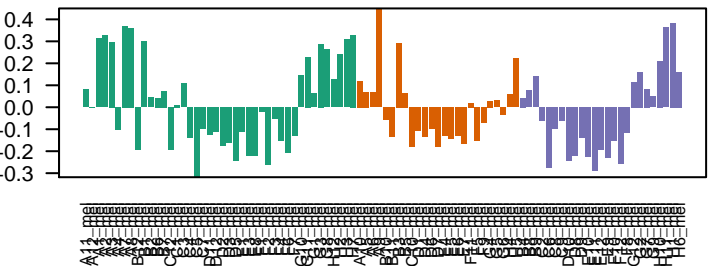
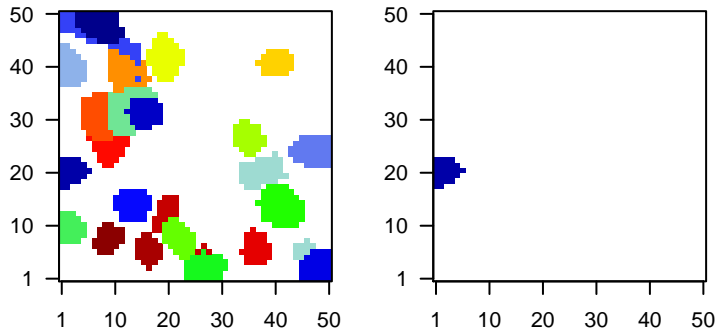
Rank	ID	max e	r	min e	Description
1	RAB40B	1.91	-0.31	0.29	RAB40B RAB40B, member RAS oncogene family [Source:HGNC Sym
2	ARRDC1	1.83	-0.36	0.26	ARRDC1arrestin domain containing 1 [Source:HGNC Symbol;Acc:HG
3	NSMCE4A	1.83	-0.38	0.29	NSMCE4A non-SMC element 4 homolog A (S. cerevisiae) [Source:HG
4	FAM131A	1.78	-0.18	0.29	FAM131A family with sequence similarity 131, member A [Source:HG
5	DBNDD2	1.77	-0.24	0.33	DBNDD2dysbindin (dystrobrein binding protein 1) domain containi
6	IFNAR2	1.71	-0.41	0.45	IFNAR2 interferon (alpha, beta and omega) receptor 2 [Source:HG
7	NECAB3	1.7	-0.22	0.25	NECAB3N-terminal EF-hand calcium binding protein 3 [Source:HG
8	LMLN	1.68	-0.37	0.26	LMLN leishmanolysin-like (metallopeptidase M8 family) [Source:HG
9	MIOS	1.64	-0.23	0.29	MIOS missing oocyte, meiosis regulator, homolog (Drosophila) [Sou
10	ORAI3	1.62	-0.39	0.21	ORAI3 ORAI calcium release-activated calcium modulator 3 [Source
11	SDCCAG3	1.61	-0.51	0.35	SDCCAG3serologically defined colon cancer antigen 3 [Source:HGNC S
12	PVR	1.6	-0.17	0.21	PVR poliovirus receptor [Source:HGNC Symbol;Acc:HGNC:9705]
13	GET4	1.6	-0.28	0.32	GET4 golgi to ER traffic protein 4 homolog (S. cerevisiae) [Source:HG
14	PXMP4	1.59	-0.29	0.33	PXMP4 peroxisomal membrane protein 4, 24kDa [Source:HGNC Syrr
15	DNAJC4	1.59	-0.96	0.27	DNAJC4 DnaJ (Hsp40) homolog, subfamily C, member 4 [Source:HG
16	SLC35A3	1.58	-0.48	0.31	SLC35A3solute carrier family 35 (UDP-N-acetylglucosamine (UDP-G
17	E2F4	1.58	-0.5	0.36	E2F4 E2F transcription factor 4, p107/p130-binding [Source:HGNC
18	TMEM175	1.57	-0.23	0.29	TMEM175transmembrane protein 175 [Source:HGNC Symbol;Acc:HG
19	RITA1	1.56	-0.34	0.27	RITA1 RBPJ interacting and tubulin associated 1 [Source:HGNC Sy
20	RAD51D	1.55	-0.37	0.23	RAD51D RAD51 paralogue D [Source:HGNC Symbol;Acc:HGNC:9823]

Geneset Overrepresentation

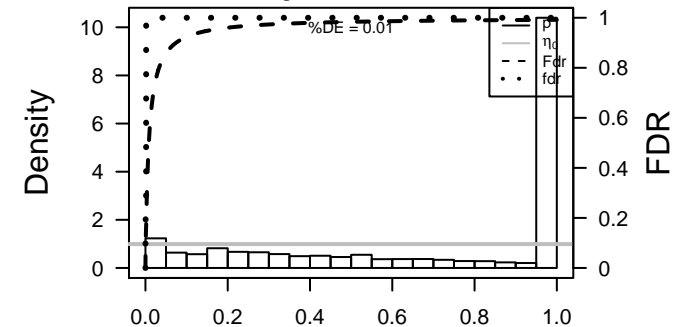
Rank	p-value	#in/all	Geneset
1	4e-18	236 / 9482	Colon TssA_Colon
2	2e-14	193 / 7203	Colon TssF_Colon
3	3e-12	50 / 925	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
4	4e-12	217 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
5	1e-11	203 / 8205	CC cytoplasm
6	1e-10	44 / 831	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
7	9e-09	28 / 440	GSE/ SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_UP
8	1e-08	51 / 1201	CC endoplasmic reticulum
9	2e-08	232 / 10605	CC intracellular
10	7e-08	206 / 9027	Colon Tx_Colon
11	9e-08	52 / 1326	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
12	1e-07	32 / 619	GSE/ KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DENSITY_CORR_UP
13	2e-07	55 / 1468	CC mitochondrion
14	2e-07	26 / 447	GSE/ ENK_UV_RESPONSE_KERATINOCYTE_UP
15	2e-07	92 / 3081	Brain Mid_Frontal_Lobe_ZNF
16	3e-07	212 / 9528	Brain Overlap_fetal_midbrain_Quies
17	4e-07	16 / 188	GSE/ DAZARD_RESPONSE_TO_UV_NHEK_UP
18	4e-07	18 / 238	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP
19	1e-06	146 / 5880	Colon TssD2_Colon
20	2e-06	25 / 478	GSE/ STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
21	3e-06	31 / 685	GSE/ KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_UP
22	3e-06	82 / 2798	Colon TxEnhG1_Colon
23	8e-06	29 / 649	CC endoplasmic reticulum membrane
24	9e-06	209 / 9653	Colon Enh_Colon
25	1e-05	214 / 9988	CC organelle
26	2e-05	7 / 47	GSE/ SCHLOSSER_MYC_TARGETS_AND_SERUM_RESPONSE_UP
27	4e-05	19 / 363	GSE/ RUTELLA_RESPONSE_TO_HGF_UP
28	4e-05	16 / 274	GSE/ DEBIAS_APOPTOSIS_BY_REOVIRUS_INFECTON_DN
29	5e-05	4 / 12	BP oxidative phosphorylation
30	6e-05	116 / 4689	TF ICGC_Taf1_targets
31	7e-05	126 / 5219	TF ICGC_Tcf3_targets
32	9e-05	8 / 78	GSE/ SCHUHMACHER_MYC_TARGETS_UP
33	1e-04	119 / 4909	TF ICGC_Stat5_targets
34	1e-04	102 / 4054	TF ICGC_Egr1_targets
35	1e-04	16 / 303	GSE/ RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_UP
36	2e-04	137 / 5890	TF ICGC_Elf1_targets
37	2e-04	141 / 6114	TF ICGC_Runx3_targets
38	2e-04	10 / 135	GSE/ WELCSH_BRCA1_TARGETS_DN
39	2e-04	127 / 5408	TF ICGC_Pou2_targets
40	3e-04	24 / 598	BP membrane organization

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: L

metagenes = 26
genes = 309

<r> metagenes = 0.93
<r> genes = 0.12
beta: r2= 2.15 / log p= -Inf

samples with spot = 19 (20.7 %)
MSC1 : 1 (2.4 %)
MSC2 : 15 (60 %)
MSC3 : 3 (12 %)

Spot Genelist

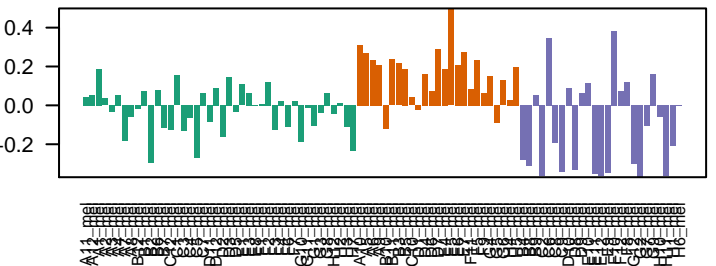
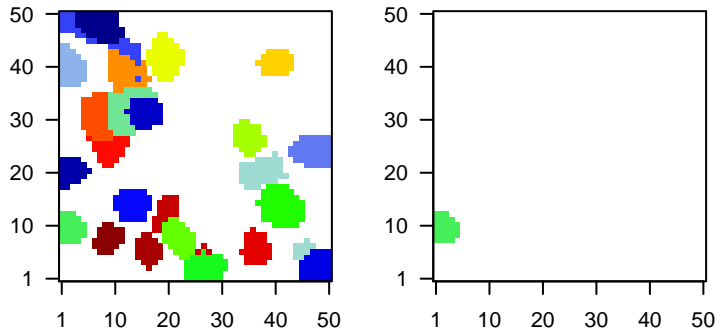
Rank	ID	max e	r	min e	Description
1	POPDC2	2.06	-0.33	0.46	POPDC2popeye domain containing 2 [Source:HGNC Symbol;Acc:HGNC:10000]
2	EGLN3	1.89	-0.41	0.36	EGLN3 egl-9 family hypoxia-inducible factor 3 [Source:HGNC Symbol;Acc:HGNC:10000]
3	KCNQ5	1.87	-0.46	0.35	KCNQ5 potassium channel, voltage gated KQT-like subfamily Q, member 5 [Source:HGNC Symbol;Acc:HGNC:10000]
4	CFAP61	1.86	-0.52	0.45	CFAP61 cilia and flagella associated protein 61 [Source:HGNC Symbol;Acc:HGNC:10000]
5	LYRM9	1.85	-0.31	0.28	LYRM9 LYR motif containing 9 [Source:HGNC Symbol;Acc:HGNC:10000]
6	CC2D1B	1.84	-0.41	0.22	CC2D1B coiled-coil and C2 domain containing 1B [Source:HGNC Symbol;Acc:HGNC:10000]
7	TAPBPL	1.83	-0.08	0.34	TAPBPL TAP binding protein-like [Source:HGNC Symbol;Acc:HGNC:10000]
8	PLA2G4B	1.82	-0.16	0.33	PLA2G4B phospholipase A2, group IVB (cytosolic) [Source:HGNC Symbol;Acc:HGNC:10000]
9	KRTAP19-1	1.78	-0.78	0.4	KRTAP19-1 keratin associated protein 19-1 [Source:HGNC Symbol;Acc:HGNC:10000]
10	LCMT2	1.75	-0.37	0.3	LCMT2 leucine carboxyl methyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:10000]
11	TMEM150A	1.75	-0.24	0.35	TMEM150A transmembrane protein 150A [Source:HGNC Symbol;Acc:HGNC:10000]
12	RDH14	1.75	-0.43	0.31	RDH14 retinol dehydrogenase 14 (all-trans-9-cis/11-cis) [Source:HGNC Symbol;Acc:HGNC:10000]
13	GAS8	1.75	-0.56	0.29	GAS8 growth arrest-specific 8 [Source:HGNC Symbol;Acc:HGNC:10000]
14	BBS5	1.74	-0.64	0.36	BBS5 Bardet-Biedl syndrome 5 [Source:HGNC Symbol;Acc:HGNC:10000]
15	STAT6	1.71	-0.38	0.29	STAT6 signal transducer and activator of transcription 6, interleukin-6-induced [Source:HGNC Symbol;Acc:HGNC:10000]
16	C1orf54	1.7	-0.3	0.41	C1orf54 chromosome 1 open reading frame 54 [Source:HGNC Symbol;Acc:HGNC:10000]
17	SUOX	1.69	-0.67	0.27	SUOX sulfite oxidase [Source:HGNC Symbol;Acc:HGNC:11460]
18	TXNDC16	1.69	-0.35	0.28	TXNDC16 thioredoxin domain containing 16 [Source:HGNC Symbol;Acc:HGNC:10000]
19	PLA1A	1.68	-0.26	0.34	PLA1A phospholipase A1 member A [Source:HGNC Symbol;Acc:HGNC:10000]
20	CTC-534A2.2	1.67	-0.37	0.26	CTC-534A2.2 [Source:HGNC Symbol;Acc:HGNC:10000]

Geneset Overrepresentation

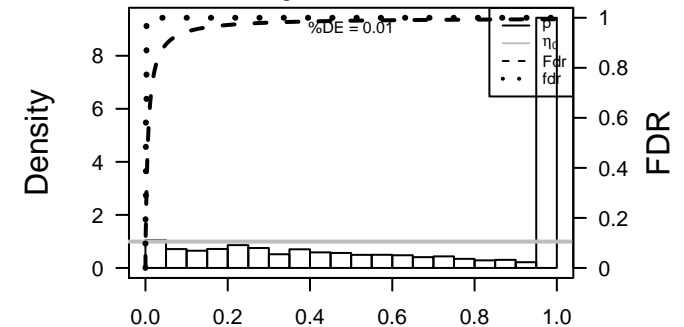
Rank	p-value	#in/all	Geneset
1	7e-11	245 / 9330	Brain Overlap_fetal_midbrain_ReprPC
2	1e-08	233 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
3	2e-07	229 / 9020	Brain Overlap_fetal_midbrain_ReprPCWk
4	2e-07	238 / 9528	Brain Overlap_fetal_midbrain_Quies
5	3e-07	166 / 5940	Brain Overlap_fetal_midbrain_HetRpts
6	1e-06	6 / 18	BP melanocyte differentiation
7	9e-06	9 / 67	BP pigmentation
8	9e-06	5 / 15	BP developmental pigmentation
9	2e-05	7 / 42	GSE/ PID_RHOA_REG_PATHWAY
10	3e-05	171 / 6564	Lymph HOPP_Strong_enhancer
11	3e-05	4 / 10	MF semaphorin receptor binding
12	4e-05	208 / 8415	Color Quies3_Colon
13	4e-05	10 / 100	miRN hsa-miR-574-5p
14	6e-05	5 / 21	BP melanosome transport
15	6e-05	31 / 705	BP locomotion
16	8e-05	92 / 3088	CC plasma membrane
17	1e-04	4 / 13	BP melanin biosynthetic process
18	1e-04	4 / 13	GSE/ REACTOME_OTHER_SEMAPHORIN_INTERACTIONS
19	1e-04	9 / 94	CC melanosome
20	1e-04	19 / 353	GSE/ ONDER_CDH1_TARGETS_2_DN
21	2e-04	12 / 167	GSE/ KIM_MYC_AMPLIFICATION_TARGETS_UP
22	2e-04	107 / 3812	Color TssD1_Colon
23	2e-04	4 / 15	GSE/ BOYAUULT_LIVER_CANCER_SUBCLASS_G56_DN
24	2e-04	25 / 552	GSE/ HAMAL_APOPTOSIS_VIA_TRAIL_UP
25	2e-04	97 / 3383	Color EnhWk2_Colon
26	2e-04	26 / 590	BP cell morphogenesis
27	3e-04	17 / 317	GSE/ PHONG_TNF_RESPONSE_NOT_VIA_P38
28	3e-04	4 / 17	MF Ras GTPase binding
29	4e-04	7 / 65	BP regulation of Rho protein signal transduction
30	4e-04	7 / 66	MF Rho guanyl-nucleotide exchange factor activity
31	4e-04	215 / 9027	Color Tx_Colon
32	5e-04	18 / 356	GSE/ DELYS_THYROID_CANCER_UP
33	5e-04	206 / 8580	Color TxWk_Colon
34	5e-04	13 / 212	GSE/ DUTERTRE ESTRADIOL_RESPONSE_6HR_UP
35	5e-04	4 / 19	MF 1-phosphatidylinositol binding
36	5e-04	4 / 19	MF cAMP binding
37	6e-04	18 / 363	GSE/ RUTELLA_RESPONSE_TO_HGF_UP
38	6e-04	76 / 2576	CC membrane
39	6e-04	223 / 9482	Color TssA_Colon
40	6e-04	5 / 34	GSE/ PID_RAC1_REG_PATHWAY

Overview Map

Spot



p-values



Rank	p-value	#in/all
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Geneset	#in/all
down-regulated genes meth UP	13
HORVATH_age_genes meth UP	13
TESCHENDORFF_age_hypermethylated	13

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Geneset	#in/all
metabolic differentiation	67
pigmentation	67
developmental pigmentation	67
melanosome transport	67
locomotion	67
melanin biosynthetic process	67
cell morphogenesis	67
regulation of rho protein signal transduction	67
negative regulation of smooth muscle cell migration	67
positive regulation of smooth muscle cell migration	67
axon guidance	67
phosphatidylinositol phosphorylation	67
leukocyte migration	67
regulation of small GTPase mediated signal transduction	67
cell motility	67
insulin receptor signaling pathway	67
positive regulation of smooth muscle cell proliferation	67
phosphatidylinositol metabolic process	67
apoptotic signaling pathway	67
lipid metabolic process	67

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67	0.000000	97

Geneset	#in/all
plasma membrane	97
melanosome	97
cell membrane	97
endosome	97
cytoplasm	97
immunological synapse	97
apical plasma membrane	97
vacuole	97
perinuclear endoplasmic reticulum	97
secretory granule	97
lysosome	97
cytoskeleton	97
cell	97
lysosomal membrane	97
integral component of membrane	97
motile cilium	97
retromer complex	97
mitochondrial matrix	97

Rank	p-value	#in/all
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Geneset	#in/all
Overlap_tetal_midbrain_ReprPC	16
Overlap_tetal_midbrain_K9K27me3	16
Overlap_tetal_midbrain_ReprPCVK	16
Overlap_tetal_midbrain_QuiEs	16
Overlap_tetal_midbrain_HetRpts	16
Meta_15P	16
Mid_Frontal_Lobe_Enh	16
Mid_Frontal_Lobe_ZNF	16
Meta_1Ktrans	16
Overlap_tetal_midbrain_Enh	16
Meta_15P	16
Meta_15P	16
Meta_15P	16

Correlation Clusters

Spot Summary: M

metagenes = 26
genes = 190

<r> metagenes = 0.93
<r> genes = 0.2
beta: r2= 0.65 / log p= -Inf

samples with spot = 2 (2.2 %)
MSC2 : 2 (8 %)

Spot Genelist

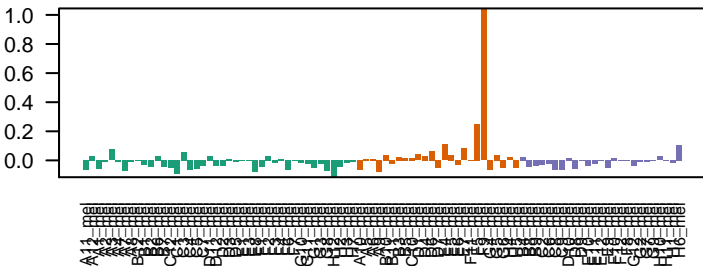
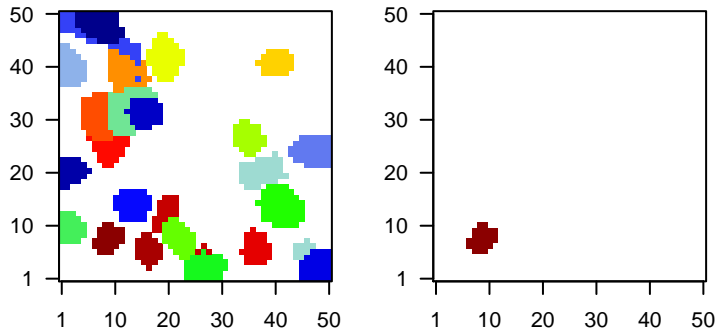
Rank	ID	max e	r	min e	Description
1	METAP1D	2.04	-0.33	0.31	METAP1D methionyl aminopeptidase type 1D (mitochondrial) [Source:HGNC Symbol]
2	SLC24A1	1.94	-0.09	0.54	SLC24A1 solute carrier family 24 (sodium/potassium/calcium exchange)
3	GPR183	1.92	-0.15	0.49	GPR183 G protein-coupled receptor 183 [Source:HGNC Symbol;Acc:NCBI]
4	RHPN2	1.85	-0.17	0.36	RHPN2 rhophilin, Rho GTPase binding protein 2 [Source:HGNC Symbol;Acc:NCBI]
5	KCNIP4	1.84	-0.07	0.63	KCNIP4 Kv channel interacting protein 4 [Source:HGNC Symbol;Acc:NCBI]
6	ACP6	1.8	-0.24	0.32	ACP6 acid phosphatase 6, lysosphatidic [Source:HGNC Symbol;Acc:NCBI]
7	GPR171	1.8	-0.08	0.72	GPR171 G protein-coupled receptor 171 [Source:HGNC Symbol;Acc:NCBI]
8	JAM3	1.8	-0.24	0.47	JAM3 junctional adhesion molecule 3 [Source:HGNC Symbol;Acc:NCBI]
9	TMEM27	1.79	-0.08	0.5	TMEM27 transmembrane protein 27 [Source:HGNC Symbol;Acc:NCBI]
10	CHAMP1	1.78	-0.27	0.33	CHAMP1 chromosome alignment maintaining phosphoprotein 1 [Source:HGNC Symbol;Acc:NCBI]
11	ZNF530	1.78	-0.18	0.28	ZNF530 zinc finger protein 530 [Source:HGNC Symbol;Acc:HGNC:29]
12	UGT3A2	1.78	-0.08	0.49	UGT3A2 UDP glycosyltransferase 3 family, polypeptide A2 [Source:HGNC Symbol;Acc:NCBI]
13	CFAP46	1.73	-0.09	0.51	CFAP46 cilia and flagella associated protein 46 [Source:HGNC Symbol;Acc:NCBI]
14	ADAM22	1.7	-0.14	0.59	ADAM22 ADAM metallopeptidase domain 22 [Source:HGNC Symbol;Acc:NCBI]
15	TRPC1	1.7	-0.16	0.36	TRPC1 transient receptor potential cation channel, subfamily C, member 1 [Source:HGNC Symbol;Acc:NCBI]
16	SLC29A3	1.68	-0.08	0.39	SLC29A3 solute carrier family 29 (equilibrative nucleoside transporter), member 3 [Source:HGNC Symbol;Acc:NCBI]
17	RD3L	1.67	-0.09	0.49	RD3L retinal degeneration 3-like [Source:HGNC Symbol;Acc:HGNC:28]
18	PDCD2L	1.66	-0.43	0.32	PDCD2L programmed cell death 2-like [Source:HGNC Symbol;Acc:NCBI]
19	ZNF546	1.65	-0.15	0.42	ZNF546 zinc finger protein 546 [Source:HGNC Symbol;Acc:HGNC:28]
20	AGPAT9	1.65	-0.35	0.3	AGPAT9 1-acylglycerol-3-phosphate O-acyltransferase 9 [Source:HGNC Symbol;Acc:NCBI]

Geneset Overrepresentation

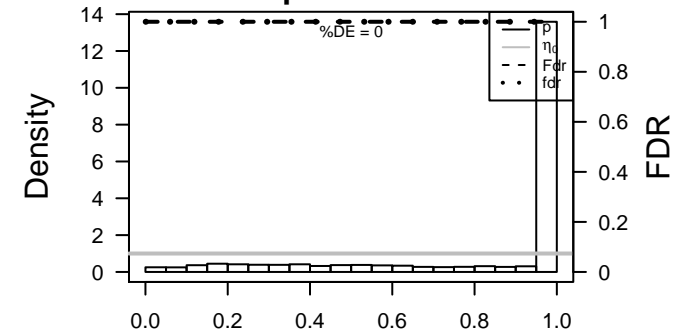
Rank	p-value	#in/all	Geneset
1	5e-04	5 / 53	miRN hsa-miR-337-3p
2	2e-03	25 / 1065	Brain Overlap_fetal_midbrain_Enh
3	3e-03	3 / 22	MF calmodulin-dependent protein kinase activity
4	3e-03	3 / 22	MF delayed rectifier potassium channel activity
5	3e-03	4 / 47	GSE# LEE_EARLY_T_LYMPHOCYTE_DN
6	3e-03	24 / 1038	Colon HetRpts_Colon
7	3e-03	3 / 24	MF N-acetyltransferase activity
8	5e-03	29 / 1386	Colon Het_Colon
9	6e-03	3 / 30	GSE# PIONTEK_PKD1_TARGETS_UP
10	7e-03	36 / 1872	TF ICGC_Mef2_targets
11	7e-03	5 / 94	GSE# OHGUCHI_LIVER_HNF4A_TARGETS_DN
12	8e-03	11 / 373	GSE# CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_2
13	8e-03	2 / 11	BP DNA methylation involved in gamete generation
14	8e-03	6 / 138	GSE# LEE_LIVER_CANCER_SURVIVAL_UP
15	8e-03	4 / 63	miRN hsa-miR-1285
16	9e-03	5 / 101	miRN hsa-miR-325
17	1e-02	2 / 12	BP regulation of neurotransmitter secretion
18	1e-02	2 / 12	Glio Donson-chemokine/cytokine-receptors-associated with LTS in HGA
19	1e-02	4 / 67	GSE# MCCLUNG_COCAINE_REWARD_5D
20	1e-02	14 / 550	MF protein homodimerization activity
21	1e-02	6 / 145	miRN hsa-miR-922
22	1e-02	2 / 13	Lymp YAMANE_AICDA_targets_recruited
23	1e-02	2 / 13	GSE# BIOCARTE_CACAM_PATHWAY
24	1e-02	2 / 13	GSE# REACTOME_N_GLYCAN_ANTENNAE_ELONGATION
25	1e-02	2 / 14	BP histone H4-K5 acetylation
26	1e-02	2 / 14	BP histone H4-K8 acetylation
27	1e-02	2 / 14	BP positive regulation of chemokine production
28	1e-02	2 / 14	miRN hsa-miR-147b
29	1e-02	15 / 629	GSE# CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_3
30	2e-02	2 / 15	BP peptide hormone processing
31	2e-02	2 / 15	GSE# SABATES_COLORECTAL_ADENOMA_SIZE_UP
32	2e-02	2 / 15	GSE# GEISS_RESPONSE_TO_DSRNA_DN
33	2e-02	3 / 42	GSE# KRASNOSELSKAYA_ILF3_TARGETS_DN
34	2e-02	2 / 16	GSE# REACTOME_N_GLYCAN_ANTENNAE_ELONGATION_IN_THE_MEDIAL_PLASMA_MEMBRANE
35	2e-02	2 / 16	GSE# PARK_HSC_VS_MULTIPOTENT_PROGENITORS_UP
36	2e-02	3 / 44	miRN hsa-miR-640
37	2e-02	3 / 44	GSE# MARSON_FOXP3_TARGETS_DN
38	2e-02	14 / 591	Color Lembcke_TCGA_meth_kmeans_L_CIMP_H_DN
39	2e-02	7 / 213	GSE# KAAB_HEART_ATRIUM_VS_VENTRICLE_UP
40	2e-02	2 / 17	BP definitive hemopoiesis

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: N

metagenes = 42
genes = 82

<r> metagenes = 0.93
<r> genes = 0.11
beta: r2= 0.52 / log p= -15.48

samples with spot = 4 (4.3 %)
MSC1 : 3 (7.1 %)
MSC2 : 1 (4 %)

Spot Genelist

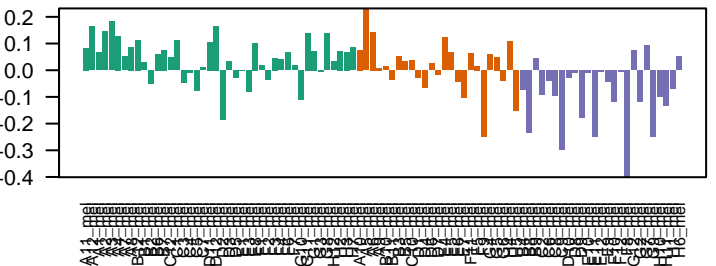
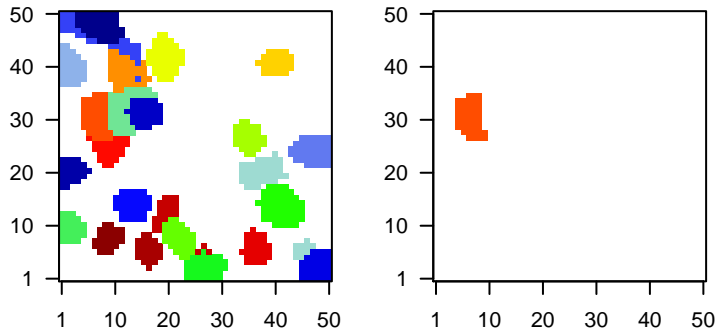
Rank	ID	max e	r	min e	Description
1	GSTA3	1.71	-0.15	0.28	GSTA3 glutathione S-transferase alpha 3 [Source:HGNC Symbol;Acc:HGNC:10343]
2	FOXRED1	1.56	-0.57	0.29	FOXRED1FAD-dependent oxidoreductase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10343]
3	UNKL	1.51	-0.21	0.29	UNKL unkempt family zinc finger-like [Source:HGNC Symbol;Acc:HGNC:10343]
4	LDLRAD3	1.42	-0.33	0.3	LDLRAD3low density lipoprotein receptor class A domain containing 3 [Source:HGNC Symbol;Acc:HGNC:10343]
5	HCN3	1.42	-0.08	0.22	HCN3 hyperpolarization activated cyclic nucleotide gated potassium channel beta 3 [Source:HGNC Symbol;Acc:HGNC:10343]
6	C17orf49	1.41	-0.76	0.36	C17orf49chromosome 17 open reading frame 49 [Source:HGNC Symbol;Acc:HGNC:10343]
7	UNC13B	1.38	-0.18	0.29	UNC13Bunc-13 homolog B (C. elegans) [Source:HGNC Symbol;Acc:HGNC:10343]
8	PRKCD	1.37	-0.24	0.33	PRKCD protein kinase C, delta [Source:HGNC Symbol;Acc:HGNC:10343]
9	GFPT2	1.37	-0.14	0.2	GFPT2 glutamine-fructose-6-phosphate transaminase 2 [Source:HGNC Symbol;Acc:HGNC:10343]
10	FIG4	1.34	-0.7	0.28	FIG4 FIG4 phosphoinositide 5-phosphatase [Source:HGNC Symbol;Acc:HGNC:10343]
11	CREBL2	1.33	-0.22	0.27	CREBL2cAMP responsive element binding protein-like 2 [Source:HGNC Symbol;Acc:HGNC:10343]
12	HMGXB3	1.27	-0.52	0.26	HMGXB3HMG box domain containing 3 [Source:HGNC Symbol;Acc:HGNC:10343]
13	KATNA1	1.27	-0.94	0.17	KATNA1 katanin p60 (ATPase containing) subunit A 1 [Source:HGNC Symbol;Acc:HGNC:10343]
14	CRMP1	1.27	-0.11	0.29	CRMP1 collapsin response mediator protein 1 [Source:HGNC Symbol;Acc:HGNC:10343]
15	MED9	1.26	-0.63	0.27	MED9 mediator complex subunit 9 [Source:HGNC Symbol;Acc:HGNC:10343]
16	MOSPD3	1.25	-0.41	0.28	MOSPD3motile sperm domain containing 3 [Source:HGNC Symbol;Acc:HGNC:10343]
17	DBP	1.22	-0.38	0.34	DBP D site of albumin promoter (albumin D-box) binding protein [Source:HGNC Symbol;Acc:HGNC:10343]
18	ERCC6L	1.21	-0.12	0.37	ERCC6L excision repair cross-complementation group 6-like [Source:HGNC Symbol;Acc:HGNC:10343]
19	MCOLN2	1.19	-0.05	0.25	MCOLN2mucoilin 2 [Source:HGNC Symbol;Acc:HGNC:13357]
20	ETV4	1.19	-0.17	0.36	ETV4 ets variant 4 [Source:HGNC Symbol;Acc:HGNC:3493]

Geneset Overrepresentation

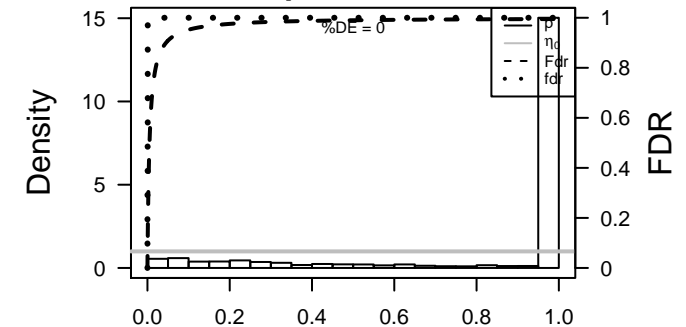
Rank	p-value	#in/all	Geneset
1	9e-17	14 / 94	BP respiratory electron transport chain
2	2e-16	22 / 401	CC mitochondrial inner membrane
3	3e-16	13 / 78	GSE# REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP_SYNTHESIS
4	6e-16	14 / 107	GSE# KEGG_OXIDATIVE_PHOSPHORYLATION
5	2e-14	14 / 135	BP cellular metabolic process
6	3e-14	11 / 62	GSE# REACTOME_RESPIRATORY_ELECTRON_TRANSPORT
7	5e-14	13 / 114	GSE# REACTOME_TCA_CYCLE_AND_RESPIRATORY_ELECTRON_TRANSPORT
8	3e-13	12 / 102	GSE# KEGG_PARKINSONS_DISEASE
9	9e-13	17 / 311	BP generation of precursor metabolites and energy
10	1e-12	11 / 85	GSE# MOOTHA_VOXPPOS
11	1e-12	23 / 685	GSE# KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_UP
12	3e-12	13 / 157	GSE# KEGG_HUNTINGTONS_DISEASE
13	4e-12	14 / 198	HM HALLMARK_OXIDATIVE_PHOSPHORYLATION
14	2e-11	12 / 142	GSE# KEGG_ALZHEIMERS_DISEASE
15	1e-10	13 / 213	GSE# WONG_MITOCHONDRIA_GENE_MODULE
16	2e-09	14 / 316	GSE# HSIAO_HOUSEKEEPING_GENES
17	2e-09	9 / 93	GSE# PECE_MAMMARY_STEM_CELL_UP
18	5e-09	18 / 619	GSE# KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DENSITY_CORR_UP
19	8e-09	15 / 421	GSE# MOOTHA_MITOCHONDRIA
20	3e-08	7 / 58	GSE# KEGG_CARDIAC_MUSCLE_CONTRACTION
21	4e-08	14 / 405	GSE# MOOTHA_HUMAN_MITODB_6_2002
22	9e-08	6 / 41	CC mitochondrial respiratory chain complex I
23	2e-07	25 / 1468	CC mitochondrion
24	2e-07	6 / 48	BP hydrogen ion transmembrane transport
25	3e-07	14 / 478	GSE# STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
26	4e-06	25 / 1730	BP small molecule metabolic process
27	4e-06	6 / 77	GSE# CHICAS_RB1_TARGETS_LOW_SERUM
28	4e-06	15 / 683	GSE# MARTENS_TRETINOIN_RESPONSE_DN
29	9e-06	19 / 1126	GSE# BLALOCK_ALZHEIMERS_DISEASE_DN
30	1e-05	4 / 25	MF cytochrome-c oxidase activity
31	1e-05	7 / 137	GSE# KIM_ALL_DISORDERS_DURATION_CORR_DN
32	2e-05	4 / 29	GSE# HONMA_DOCETAXEL_RESISTANCE
33	2e-05	13 / 592	MF oxidoreductase activity
34	2e-05	5 / 63	GSE# MARTINEZ_RESPONSE_TO TRABECTEDIN_UP
35	3e-05	3 / 12	CC mitochondrial respiratory chain
36	3e-05	3 / 12	BP oxidative phosphorylation
37	7e-05	4 / 40	BP mitochondrial electron transport, NADH to ubiquinone
38	7e-05	4 / 40	MF NADH dehydrogenase (ubiquinone) activity
39	9e-05	4 / 43	GSE# DAZARD_UV_RESPONSE_CLUSTER_G1
40	2e-04	5 / 96	GSE# BOUDOUKHA_BOUND_BY_IGF2BP2

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: O

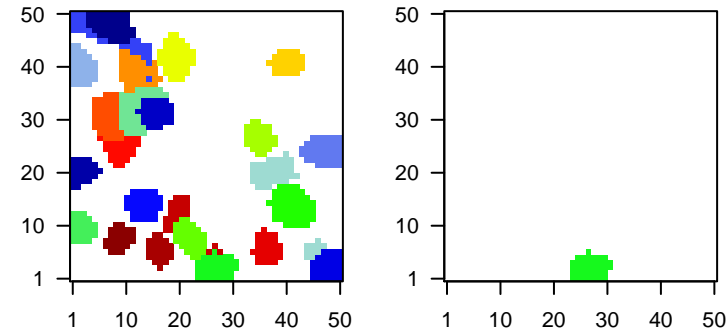
metagenes = 37
genes = 448

<r> metagenes = 0.93
<r> genes = 0.35
beta: r2= 1.24 / log p= -Inf

samples with spot = 8 (8.7 %)
MSC1 : 1 (2.4 %)
MSC2 : 2 (8 %)
MSC3 : 5 (20 %)

Overview Map

Spot

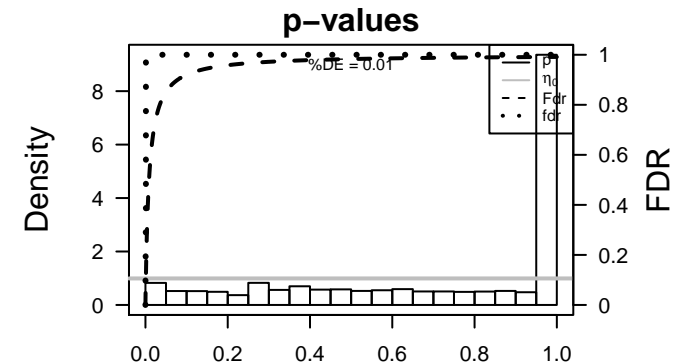
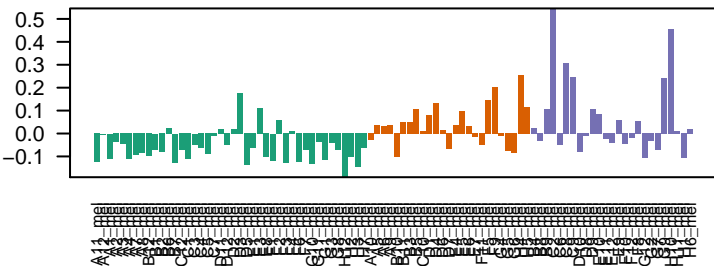


Spot Genelist

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:Hi
4	ATG2B	1.7	-0.32	0.46	ATG2B autophagy related 2B [Source:HGNC Symbol;Acc:HGNC:201
5	ZNF264	1.67	-0.28	0.42	ZNF264 zinc finger protein 264 [Source:HGNC Symbol;Acc:HGNC:13
6	SSX5	1.66	-0.14	0.38	SSX5 synovial sarcoma, X breakpoint 5 [Source:HGNC Symbol;Acc
7	ZNF550	1.66	-0.21	0.31	ZNF550 zinc finger protein 550 [Source:HGNC Symbol;Acc:HGNC:28
8	GALK2	1.64	-0.44	0.28	GALK2 galactokinase 2 [Source:HGNC Symbol;Acc:HGNC:4119]
9	ZNF525	1.63	-0.32	0.36	ZNF525 zinc finger protein 525 [Source:HGNC Symbol;Acc:HGNC:29
10	RNF25	1.6	-0.33	0.28	RNF25 ring finger protein 25 [Source:HGNC Symbol;Acc:HGNC:146
11	ATOH8	1.6	-0.33	0.34	ATOH8 atonal homolog 8 (Drosophila) [Source:HGNC Symbol;Acc:Hi
12	AKR1C3	1.59	-0.15	0.54	AKR1C3 aldo-keto reductase family 1, member C3 [Source:HGNC Sy
13	DENND1A	1.58	-0.51	0.32	DENND1A DENN/MADD domain containing 1A [Source:HGNC Symbol;
14	TLE1	1.57	-0.57	0.46	TLE1 transducin-like enhancer of split 1 (E(sp1) homolog, Drosoph
15	ADCY6	1.55	-0.31	0.46	ADCY6 adenylate cyclase 6 [Source:HGNC Symbol;Acc:HGNC:237]
16	AHDC1	1.54	-0.11	0.48	AHDC1 AT hook, DNA binding motif, containing 1 [Source:HGNC Syn
17	PHYH	1.53	-0.43	0.25	PHYH phytanoyl-CoA 2-hydroxylase [Source:HGNC Symbol;Acc:Hi
18	CLEC16A	1.51	-0.62	0.38	CLEC16A C-type lectin domain family 16, member A [Source:HGNC Sy
19	CCDC180	1.51	-0.11	0.45	CCDC180 coiled-coil domain containing 180 [Source:HGNC Symbol;Ac
20	AP000350.10	1.5	-0.11	0.57	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-14	15 / 37	GSE/ KEGG_ABC_TRANSPORTERS
2	2e-12	9 / 12	Cancer BEN-PORATH_DN
3	3e-12	14 / 41	MF ATPase activity, coupled to transmembrane movement of substances
4	2e-11	18 / 85	MF metalloendopeptidase activity
5	7e-11	11 / 27	GSE/ REACTOME_ABC_FAMILY_PROTEINS_MEDIATED_TRANSPORT
6	1e-09	8 / 14	BP cAMP biosynthetic process
7	2e-08	9 / 25	BP adenylate cyclase-activating G-protein coupled receptor signaling pathway
8	1e-07	6 / 10	MF adenylate cyclase activity
9	2e-07	18 / 149	GSE/ NABA_ECM_REGULATORS
10	3e-07	12 / 67	GSE/ REACTOME_G_ALPHA_S_SIGNALLING_EVENTS
11	4e-07	6 / 12	BP cyclic nucleotide biosynthetic process
12	4e-07	6 / 12	MF phosphorus-oxygen lyase activity
13	4e-07	6 / 12	GSE/ PID_LPA4_PATHWAY
14	4e-07	6 / 12	GSE/ REACTOME_ADENYLATE_CYCLASE_INHIBITORY_PATHWAY
15	6e-07	13 / 83	GSE/ KEGG_VASCULAR_SMOOTH_MUSCLE_CONTRACTION
16	7e-07	6 / 13	MF transmembrane receptor protein serine/threonine kinase activity
17	7e-07	6 / 13	GSE/ REACTOME_ABCA_TRANSPORTERS_IN_LIPID_HOMEOSTASIS
18	1e-06	6 / 14	MF aldehyde dehydrogenase (NAD) activity
19	2e-06	5 / 9	GSE/ REACTOME_ADENYLATE_CYCLASE_ACTIVATING_PATHWAY
20	3e-06	17 / 159	CC extracellular matrix
21	3e-06	6 / 16	MF oxidoreductase activity, acting on the aldehyde or oxo group of donors, NAD
22	5e-06	21 / 239	CC proteinaceous extracellular matrix
23	7e-06	5 / 11	MF aldo-keto reductase (NADP) activity
24	8e-06	11 / 75	MF metalloproteinase activity
25	1e-05	12 / 91	HM HALLMARK_BILE_ACID_METABOLISM
26	1e-05	7 / 28	BP intracellular transport
27	1e-05	6 / 19	BP protein targeting to Golgi
28	2e-05	9 / 54	GSE/ PID_ENDOTHELIN_PATHWAY
29	2e-05	12 / 99	GSE/ REACTOME_SIGNALING_BY_EGFR_IN_CANCER
30	3e-05	7 / 32	BP adenylate cyclase-inhibiting G-protein coupled receptor signaling pathway
31	3e-05	5 / 14	MF transforming growth factor beta-activated receptor activity
32	3e-05	5 / 14	Cancer LIU_PROSTATE_CANCER_DN
33	4e-05	62 / 1309	MF ATP binding
34	4e-05	5 / 15	BP activation of protein kinase A activity
35	4e-05	5 / 15	GSE/ REACTOME_PKA_MEDIATED_PHOSPHORYLATION_OF_CREB
36	5e-05	52 / 1040	MF zinc ion binding
37	5e-05	22 / 300	GSE/ REACTOME_GPCR_DOWNSTREAM_SIGNALING
38	6e-05	11 / 93	GSE/ REACTOME_SIGNALING_BY_FGFR
39	7e-05	7 / 37	GSE/ REACTOME_PLC_BETA_MEDIATED_EVENTS
40	7e-05	7 / 37	GSE/ REACTOME_G_ALPHA_Z_SIGNALLING_EVENTS



Correlation Clusters

Spot Summary: P

metagenes = 29
genes = 310

<r> metagenes = 0.93
<r> genes = 0.25
beta: r2= 0.87 / log p= -Inf

samples with spot = 1 (1.1 %)
MSC3 : 1 (4 %)

Spot Genelist

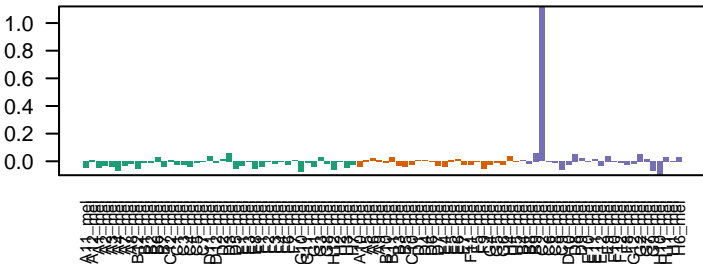
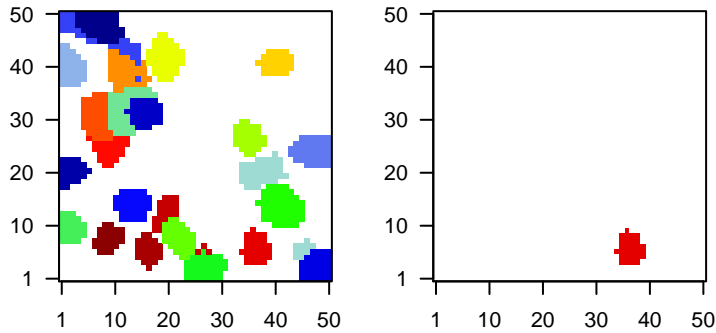
Rank	ID	max e	r	min e	Description
					Symbol
1	FAP	2.68	-0.06	0.83	FAP fibroblast activation protein, alpha [Source:HGNC Symbol;Acc:HGNC:2095]
2	CLU	2.35	-0.13	0.5	CLU clusterin [Source:HGNC Symbol;Acc:HGNC:2095]
3	CPNE7	2.15	-0.03	0.94	CPNE7 copine VII [Source:HGNC Symbol;Acc:HGNC:2320]
4	WDR90	2.04	-0.35	0.29	WDR90 WD repeat domain 90 [Source:HGNC Symbol;Acc:HGNC:2612]
5	HSF4	1.98	-0.15	0.42	HSF4 heat shock transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:2095]
6	CLDN15	1.9	-0.12	0.65	CLDN15 claudin 15 [Source:HGNC Symbol;Acc:HGNC:2036]
7	SLC10A7	1.89	-0.17	0.4	SLC10A7solute carrier family 10, member 7 [Source:HGNC Symbol;Acc:HGNC:2095]
8	SNX16	1.89	-0.17	0.26	SNX16 sorting nexin 16 [Source:HGNC Symbol;Acc:HGNC:14980]
9	STAMBPL1	1.85	-0.35	0.41	STAMBPL1STAM binding protein-like 1 [Source:HGNC Symbol;Acc:HGNC:2095]
10	BBS1	1.84	-0.26	0.32	BBS1 Bardet-Biedl syndrome 1 [Source:HGNC Symbol;Acc:HGNC:2095]
11	FHL3	1.83	-0.11	0.6	FHL3 four and a half LIM domains 3 [Source:HGNC Symbol;Acc:HGNC:2095]
12	PPP1R12B	1.81	-0.43	0.28	PPP1R12Bprotein phosphatase 1, regulatory subunit 12B [Source:HGNC Symbol;Acc:HGNC:2095]
13	ARL6	1.79	-0.24	0.4	ARL6 ADP-ribosylation factor-like 6 [Source:HGNC Symbol;Acc:HGNC:2095]
14	C15orf65	1.79	-0.07	0.65	C15orf65chromosome 15 open reading frame 65 [Source:HGNC Synt
15	GPRC5A	1.78	-0.07	0.48	GPRC5AG protein-coupled receptor, class C, group 5, member A [So
16	MRAS	1.78	-0.21	0.43	MRAS muscle RAS oncogene homolog [Source:HGNC Symbol;Acc:HGNC:2095]
17	TMEM140	1.78	-0.21	0.44	TMEM140transmembrane protein 140 [Source:HGNC Symbol;Acc:HGNC:2095]
18	FAM149A	1.78	-0.07	0.59	FAM149Afamily with sequence similarity 149, member A [Source:HGNC
19	ZNF350	1.76	-0.62	0.27	ZNF350 zinc finger protein 350 [Source:HGNC Symbol;Acc:HGNC:1612]
20	TEP1	1.75	-0.14	0.46	TEP1 telomerase-associated protein 1 [Source:HGNC Symbol;Acc:HGNC:2095]

Geneset Overrepresentation

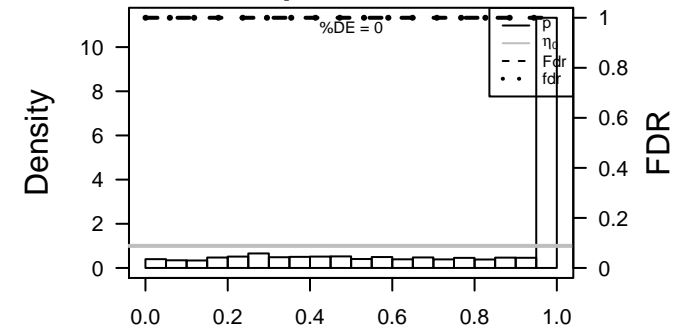
Rank	p-value	#in/all	Geneset
1	2e-05	31 / 668	Brain Mid_Frontal_Lobe_Enh
2	8e-05	6 / 36	GSE/ REACTOME_IMMUNOREGULATORY_INTERACTIONS_BETWEEN_A_L
3	9e-05	13 / 180	GSE/ GAL_LEUKEMIC_STEM_CELL_DN
4	4e-04	45 / 1317	Colon EnhP_Colon
5	5e-04	85 / 2972	Brain Mid_Frontal_Lobe_ReprPC
6	5e-04	17 / 332	GSE/ PEDRIOLI_MIR31_TARGETS_DN
7	5e-04	5 / 33	GSE/ GRAHAM_CML QUIESCENT_VS_NORMAL QUIESCENT_DN
8	9e-04	3 / 10	BP activation of transmembrane receptor protein tyrosine kinase activity
9	9e-04	4 / 22	GSE/ KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_HEPARAN_SULFATE
10	2e-03	4 / 25	GSE/ VALK_AML_CLUSTER_5
11	2e-03	4 / 28	GSE/ CUL_TCF21_TARGETS_UP
12	3e-03	5 / 49	GSE/ DELASERNA_MYOD_TARGETS_DN
13	3e-03	3 / 15	GSE/ REACTOME_PROTEOLYTIC_CLEAVAGE_OF_SNARE_COMPLEX_PROT
14	4e-03	6 / 73	Glio Sturm_GBM_Meth_overexpression_L_RTK_I_PDGFR_A_UP
15	4e-03	3 / 16	BP regulation of neuronal synaptic plasticity
16	4e-03	5 / 53	BP regulation of immune response
17	5e-03	3 / 17	GSE/ REACTOME_BOTULINUM_NEUROTOXICITY
18	5e-03	3 / 17	GSE/ SUZUKI_RESPONSE_TO_TSA_AND_DECITABINE_1B
19	5e-03	6 / 77	GSE/ GAUSSMANN_MLL_AF4_FUSION_TARGETS_E_UP
20	5e-03	5 / 55	GSE/ GEORGANTAS_HSC_MARKERS
21	6e-03	3 / 18	Glio Mukasa_UP_in_Oligodendrogloma_with_1pLOH
22	6e-03	3 / 18	GSE/ BIOCARTA_RAC1_PATHWAY
23	6e-03	5 / 56	GSE/ FONTAINE_FOLLICULAR_THYROID_ADENOMA_DN
24	6e-03	36 / 1139	TF HEBENSTREIT_low expression TF
25	6e-03	0 / 14	Cancr LIU_PROSTATE_CANCER_DN
26	6e-03	3 / 19	GSE/ PLASARI_NFIC_TARGETS_BASAL_UP
27	7e-03	61 / 2188	Lymph HOPP_Poised_promoter
28	7e-03	8 / 136	GSE/ DARWICHE_PAPILLOMA_RISK_LOW_DN
29	7e-03	4 / 38	BP cellular response to amino acid stimulus
30	7e-03	3 / 20	BP negative regulation of T cell proliferation
31	8e-03	8 / 138	GSE/ DURAND_STROMA_NS_UP
32	8e-03	17 / 430	MF lipid binding
33	8e-03	2 / 7	GSE/ OXFORD_RALB_TARGETS_UP
34	8e-03	2 / 7	GSE/ MIKKELSEN_DEDIFFERENTIATED_STATE_DN
35	9e-03	3 / 21	GSE/ HINATA_NFKB_TARGETS_KERATINOCYTE_DN
36	9e-03	3 / 21	GSE/ GENTLES_LEUKEMIC_STEM_CELL_UP
37	9e-03	5 / 63	GSE/ HECKER_IFNB1_TARGETS
38	1e-02	60 / 2185	Brain Fetal_TsSa
39	1e-02	13 / 304	GSE/ GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN
40	1e-02	4 / 42	GSE/ REACTOME_HEPARAN_SULFATE_HEPARIN_HS_GAG_METABOLISM

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: Q

metagenes = 51
genes = 67

<r> metagenes = 0.91
<r> genes = 0.16
beta: r2= 1.62 / log p= -Inf

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

Spot Genelist

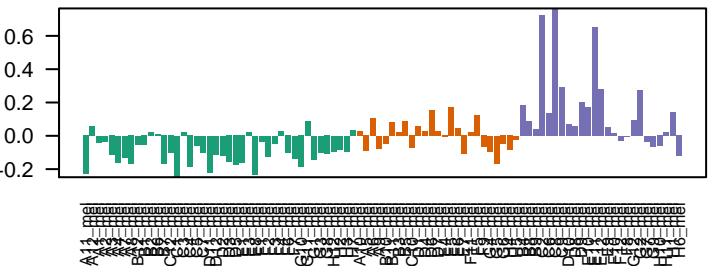
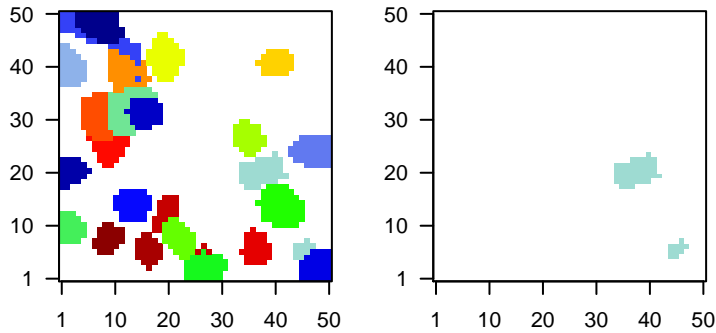
Rank	ID	max e	r	min e	Description
1	ZNF383	1.77	-0.16	0.55	ZNF383 zinc finger protein 383 [Source:HGNC Symbol;Acc:HGNC:18]
2	FAM65B	1.73	-0.09	0.75	FAM65B family with sequence similarity 65, member B [Source:HGNC
3	HSPG2	1.69	-0.27	0.33	HSPG2 heparan sulfate proteoglycan 2 [Source:HGNC Symbol;Acc:H
4	EXOC6B	1.66	-0.54	0.38	EXOC6Bexocyst complex component 6B [Source:HGNC Symbol;Acc:I
5	FNBP1L	1.58	-0.56	0.33	FNBP1L formin binding protein 1-like [Source:HGNC Symbol;Acc:HGI
6	DUSP10	1.52	-0.84	0.4	DUSP10 dual specificity phosphatase 10 [Source:HGNC Symbol;Acc:†
7	PIAS3	1.51	-0.37	0.3	PIAS3 protein inhibitor of activated STAT, 3 [Source:HGNC Symbol;#
8	EHD2	1.48	-0.17	0.56	EHD2 EH-domain containing 2 [Source:HGNC Symbol;Acc:HGNC::
9	RUNX1	1.45	-0.83	0.41	RUNX1 runt-related transcription factor 1 [Source:HGNC Symbol;Acc
10	HEG1	1.41	-0.34	0.44	HEG1 heart development protein with EGF-like domains 1 [Source:i
11	RASA1	1.41	-0.47	0.32	RASA1 RAS p21 protein activator (GTPase activating protein) 1 [Sou
12	FAT4	1.4	-0.06	0.76	FAT4 FAT atypical cadherin 4 [Source:HGNC Symbol;Acc:HGNC:2
13	BDNF	1.4	-0.09	0.74	BDNF brain-derived neurotrophic factor [Source:HGNC Symbol;Acc
14	HIST2H2AA4	1.39	-0.5	0.47	HIST2H2AA4histone cluster 2, H2aa4 [Source:HGNC Symbol;Acc:HGNC::
15	RTN2	1.37	-0.21	0.42	RTN2 reticulon 2 [Source:HGNC Symbol;Acc:HGNC:10468]
16	INTS6	1.35	-0.71	0.24	INTS6 integrator complex subunit 6 [Source:HGNC Symbol;Acc:HGI
17	MED13L	1.31	-0.91	0.27	MED13L mediator complex subunit 13-like [Source:HGNC Symbol;Acc
18	BAZ2A	1.3	-0.95	0.24	BAZ2A bromodomain adjacent to zinc finger domain, 2A [Source:HG
19	RAD50	1.29	-1.07	0.31	RAD50 RAD50 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:†
20	MYH9	1.29	-1.04	0.45	MYH9 myosin, heavy chain 9, non-muscle [Source:HGNC Symbol;#

Geneset Overrepresentation

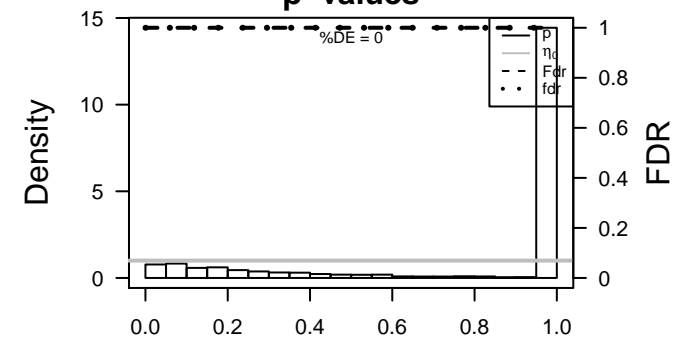
Rank	p-value	#in/all	Geneset
1	1e-05	58 / 9330	Brain Overlap_fetal_midbrain_ReprPC
2	5e-05	10 / 473	GSE# DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
3	9e-05	6 / 164	GSE# TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_UP
4	1e-04	3 / 21	BP glutamate secretion
5	3e-04	6 / 200	GSE# KYNG_WERNER_SYNDROM_AND_NORMAL_AGING_DN
6	4e-04	6 / 217	GSE# RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_DN
7	5e-04	3 / 35	GSE# CHUNG_BLISTER_CYTOTOXICITY_DN
8	6e-04	5 / 149	GSE# PHONG_TNF_RESPONSE_VIA_P38_PARTIAL
9	9e-04	6 / 247	Lymp# ZHANG_DLCLB_mutated
10	9e-04	4 / 95	miRN hsa-miR-125a-3p
11	1e-03	2 / 11	BP antibacterial humoral response
12	1e-03	4 / 102	MF actin filament binding
13	1e-03	4 / 102	miRN hsa-miR-410
14	1e-03	9 / 590	BP cell morphogenesis
15	1e-03	2 / 12	BP innate immune response in mucosa
16	1e-03	1 / 15	Canc# SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN
17	1e-03	3 / 50	GSE# ZHU_CMV_8_HR_DN
18	2e-03	2 / 13	BP actin filament-based movement
19	2e-03	2 / 15	BP embryonic hemopoiesis
20	2e-03	6 / 294	miRN hsa-miR-561
21	2e-03	4 / 122	BP plasma membrane organization
22	3e-03	3 / 61	GSE# BEIER_GLIOMA_STEM_CELL_DN
23	3e-03	4 / 128	BP endocytosis
24	3e-03	6 / 309	GSE# YAGI_AML_WITH_11Q23_REARRANGED
25	3e-03	3 / 64	GSE# REACTOME_AMYLOIDS
26	3e-03	7 / 435	GSE# GARY_CD5_TARGETS_UP
27	4e-03	2 / 20	MF activating transcription factor binding
28	4e-03	13 / 1266	TF ICGC_NrsfPcr1_targets
29	4e-03	6 / 335	GSE# YAGI_AML_WITH_INV_16_TRANSLOCATION
30	4e-03	10 / 833	GSE# DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
31	4e-03	3 / 71	miRN hsa-miR-331-3p
32	4e-03	3 / 72	GSE# PID_SMAD2_3NUCLEAR_PATHWAY
33	4e-03	3 / 72	GSE# REACTOME_MEIOTIC_RECOMBINATION
34	4e-03	2 / 22	MF RNA polymerase II transcription coactivator activity
35	4e-03	7 / 456	miRN hsa-miR-130a
36	4e-03	4 / 148	GSE# BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_DN
37	5e-03	2 / 23	GSE# REACTOME_SEMA4D_INDUCED_CELL_MIGRATION_AND_GROWTH_
38	5e-03	2 / 23	GSE# VALK_AML_CLUSTER_8
39	5e-03	7 / 471	GSE# MARTORIATI_MDM4_TARGETS_FETAL_LIVER_DN
40	5e-03	22 / 2836	TF ICGC_BatfPcr1_targets

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: R

metagenes = 55
genes = 437

<r> metagenes = 0.95
<r> genes = 0.21
beta: r2= 1.05 / log p= -Inf

samples with spot = 1 (1.1 %)
MSC3 : 1 (4 %)

Spot Genelist

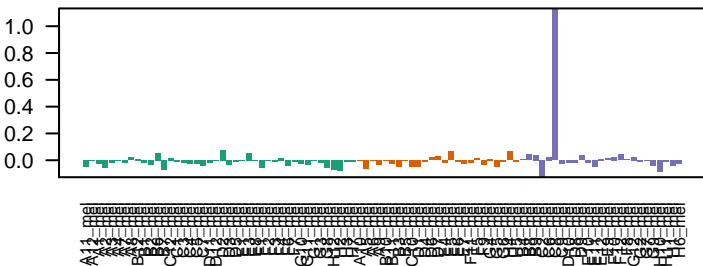
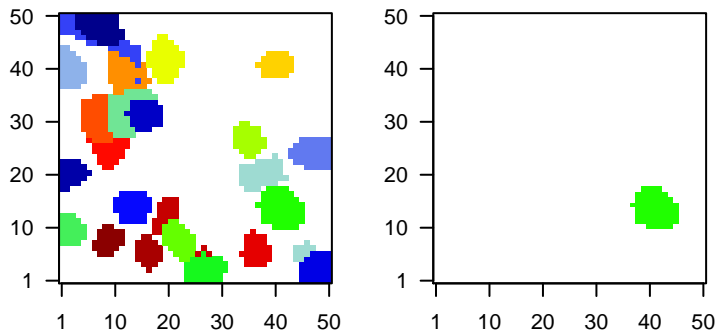
Rank	ID	max e	r	min e	Description
1	KRTAP21-2	2.37	-0.09	0.56	KRTAP21 keratin associated protein 21-2 [Source:HGNC Symbol;Acc:HGNC:12407]
2	GPR133	2.19	-0.03	0.96	
3	FBXL2	2.11	-0.4	0.39	FBXL2 F-box and leucine-rich repeat protein 2 [Source:HGNC Symbol;Acc:HGNC:12407]
4	MNDA	2.08	-0.03	0.96	MNDA myeloid cell nuclear differentiation antigen [Source:HGNC Symbol;Acc:HGNC:12407]
5	NREP	2.03	-0.33	0.4	NREP neuronal regeneration related protein [Source:HGNC Symbol;Acc:HGNC:12407]
6	TUBA4A	2.01	-0.13	0.45	TUBA4A tubulin, alpha 4a [Source:HGNC Symbol;Acc:HGNC:12407]
7	PHKA2	2.01	-0.19	0.51	PHKA2 phosphorylase kinase, alpha 2 (liver) [Source:HGNC Symbol;Acc:HGNC:12407]
8	NCAM2	2	-0.23	0.4	NCAM2 neural cell adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:12407]
9	DCN	1.98	-0.06	0.65	DCN decorin [Source:HGNC Symbol;Acc:HGNC:2705]
10	SLC14A1	1.98	-0.03	0.93	SLC14A1 solute carrier family 14 (urea transporter), member 1 (Kidd blood group) [Source:HGNC Symbol;Acc:HGNC:21945]
11	KIAA1324L	1.97	-0.39	0.3	KIAA1324L KIAA1324-like [Source:HGNC Symbol;Acc:HGNC:21945]
12	DGKA	1.96	-0.05	0.41	DGKA diacylglycerol kinase, alpha 80kDa [Source:HGNC Symbol;Acc:HGNC:21945]
13	PRKAG2	1.92	-0.36	0.32	PRKAG2 protein kinase, AMP-activated, gamma 2 non-catalytic subunit [Source:HGNC Symbol;Acc:HGNC:21945]
14	WFDC3	1.92	-0.04	0.65	WFDC3 WAP four-disulfide core domain 3 [Source:HGNC Symbol;Acc:HGNC:21945]
15	GAB1	1.9	-0.32	0.44	GAB1 GRB2-associated binding protein 1 [Source:HGNC Symbol;Acc:HGNC:21945]
16	MAP3K4	1.9	-0.43	0.26	MAP3K4 mitogen-activated protein kinase kinase kinase 4 [Source:HGNC Symbol;Acc:HGNC:21945]
17	CCDC149	1.89	-0.13	0.59	CCDC149 coiled-coil domain containing 149 [Source:HGNC Symbol;Acc:HGNC:21945]
18	MMAA	1.89	-0.07	0.49	MMAA methylmalonic aciduria (cobalamin deficiency) cblA type [Source:HGNC Symbol;Acc:HGNC:21945]
19	PCOLCE2	1.88	-0.07	0.31	PCOLCE2 procollagen C-endopeptidase enhancer 2 [Source:HGNC Symbol;Acc:HGNC:21945]
20	FHIT	1.87	-0.64	0.28	FHIT fragile histidine triad [Source:HGNC Symbol;Acc:HGNC:3701]

Geneset Overrepresentation

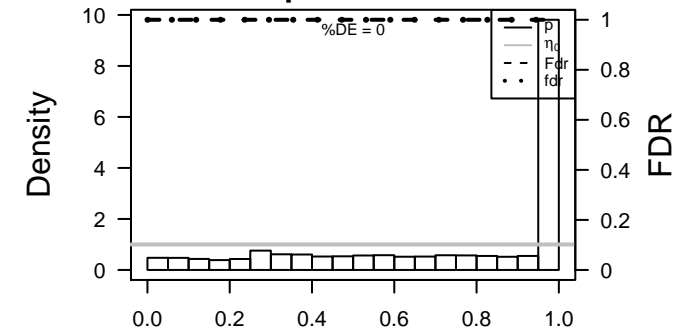
Rank	p-value	#in/all	Geneset
1	4e-05	6 / 23	BP sensory perception of taste
2	2e-04	90 / 2159	Colon TssP_Colon
3	3e-04	4 / 12	GSE# KEGG_SULFUR_METABOLISM
4	3e-04	4 / 12	GSE# REACTOME_CYTOSOLIC_SULFONATION_OF_SMALL_MOLECULES
5	6e-04	4 / 14	MF bitter taste receptor activity
6	8e-04	6 / 39	GSE# LIAO_HAVE_SOX4_BINDING_SITES
7	8e-04	21 / 336	BP neurological system process
8	9e-04	86 / 2142	Colon ReprPC_Colon
9	2e-03	4 / 18	GSE# MCCABE_HOXC6_TARGETS_DN
10	2e-03	5 / 30	GSE# KEGG_TASTE_TRANSDUCTION
11	2e-03	9 / 94	BP sensory perception of sound
12	2e-03	115 / 3088	CC plasma membrane
13	2e-03	76 / 1889	Color ReprPCWk_Colon
14	2e-03	4 / 19	GSE# REACTOME_EFFECTS_OF_PIP2_HYDROLYSIS
15	2e-03	4 / 20	BP detection of chemical stimulus involved in sensory perception of bitter taste
16	3e-03	3 / 10	BP positive regulation of p38MAPK cascade
17	3e-03	5 / 34	CC ciliary membrane
18	3e-03	110 / 2984	CC integral component of membrane
19	3e-03	4 / 22	BP positive regulation of phosphorylation
20	4e-03	49 / 1139	TF HEBENSTREIT_low expression TF
21	4e-03	5 / 36	MF calcium channel activity
22	4e-03	5 / 36	BP nuclear-transcribed mRNA catabolic process, nonsense-mediated decay
23	4e-03	8 / 87	BP calcium ion transmembrane transport
24	4e-03	198 / 5880	Color TssD2_Colon
25	4e-03	35 / 751	CC integral component of plasma membrane
26	4e-03	5 / 37	MF sulfotransferase activity
27	4e-03	15 / 239	CC proteinaceous extracellular matrix
28	4e-03	3 / 12	GSE# REACTOME_NFKB_ACTIVATION_THROUGH_FADD_RIP1_PATHWAY_M
29	4e-03	3 / 12	GSE# HUMMERICH_BENIGN_SKIN_TUMOR_DN
30	4e-03	3 / 12	GSE# HUMMERICH_MALIGNANT_SKIN_TUMOR_DN
31	4e-03	14 / 217	MF G-protein coupled receptor activity
32	5e-03	122 / 3396	Lymp HOPP_Repressed
33	5e-03	6 / 54	miRN hsa-miR-513a-5p
34	5e-03	23 / 443	BP anatomical structure formation involved in morphogenesis
35	5e-03	9 / 112	GSE# REACTOME_G_ALPHA_Q_SIGNALING_EVENTS
36	5e-03	4 / 25	CC clathrin-coated endocytic vesicle membrane
37	5e-03	4 / 25	CC MLL1 complex
38	6e-03	11 / 156	GSE# RIGGI_EWING_SARCOMA_PROGENITOR_DN
39	6e-03	4 / 26	GSE# REACTOME_NONSENSE_MEDIATED_DECAY_ENHANCED_BY_THE_E
40	6e-03	4 / 26	GSE# AIGNER_ZEB1_TARGETS

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: S

metagenes = 25
genes = 232

<r> metagenes = 0.93
<r> genes = 0.24
beta: r2= 0.62 / log p= -Inf

samples with spot = 1 (1.1 %)
MSC3 : 1 (4 %)

Spot Genelist

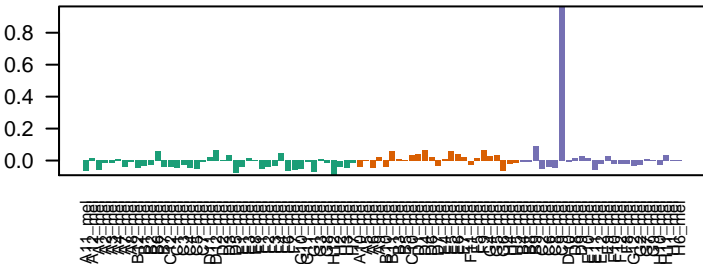
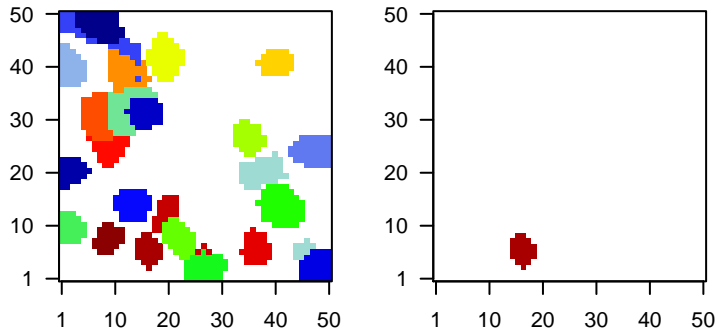
Rank	ID	max e	r	min e	Description
					Symbol
1	LRRC27	2.04	-0.16	0.57	LRRC27 leucine rich repeat containing 27 [Source:HGNC Symbol;Acc:HGNC:1734]
2	IFT46	1.98	-0.27	0.26	IFT46 intraflagellar transport 46 [Source:HGNC Symbol;Acc:HGNC:1734]
3	CLCN5	1.98	-0.19	0.6	CLCN5 chloride channel, voltage-sensitive 5 [Source:HGNC Symbol;Acc:HGNC:1734]
4	SLC25A53	1.94	-0.16	0.42	SLC25A53 solute carrier family 25, member 53 [Source:HGNC Symbol;Acc:HGNC:1734]
5	E2F5	1.86	-0.2	0.38	E2F5 E2F transcription factor 5, p130-binding [Source:HGNC Symbol;Acc:HGNC:1734]
6	OSR2	1.84	-0.06	0.67	OSR2 odd-skipped related transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:1734]
7	ULK2	1.8	-0.23	0.27	ULK2 unc-51 like autophagy activating kinase 2 [Source:HGNC Symbol;Acc:HGNC:1734]
8	WDR54	1.78	-0.34	0.3	WDR54 WD repeat domain 54 [Source:HGNC Symbol;Acc:HGNC:25]
9	MBD5	1.78	-0.22	0.32	MBD5 methyl-CpG binding domain protein 5 [Source:HGNC Symbol;Acc:HGNC:1734]
10	HDGFRP2	1.77	-0.28	0.34	HDGFRP2 HDGFRP2 [Source:HGNC Symbol;Acc:HGNC:1734]
11	SPATA25	1.76	-0.03	0.77	SPATA25 spermatogenesis associated 25 [Source:HGNC Symbol;Acc:HGNC:1734]
12	RELL1	1.69	-0.22	0.43	RELL1 RELT-like 1 [Source:HGNC Symbol;Acc:HGNC:27379]
13	DNAJB2	1.67	-0.1	0.61	DNAJB2 DnaJ (Hsp40) homolog, subfamily B, member 2 [Source:HGNC Symbol;Acc:HGNC:1734]
14	CDC34	1.67	-0.3	0.35	CDC34 cell division cycle 34 [Source:HGNC Symbol;Acc:HGNC:1734]
15	BMF	1.66	-0.16	0.54	BMF Bcl2 modifying factor [Source:HGNC Symbol;Acc:HGNC:241]
16	PCDH18	1.66	-0.21	0.29	PCDH18 protocadherin 18 [Source:HGNC Symbol;Acc:HGNC:14268]
17	ZNF487	1.65	-0.19	0.41	ZNF487 zinc finger protein 487 [Source:HGNC Symbol;Acc:HGNC:23]
18	YPEL3	1.65	-0.12	0.53	YPEL3 yippee-like 3 (Drosophila) [Source:HGNC Symbol;Acc:HGNC:1734]
19	CTTNBP2	1.65	-0.09	0.5	CTTNBP2 cortactin binding protein 2 [Source:HGNC Symbol;Acc:HGNC:1734]
20	CCDC121	1.64	-0.15	0.27	CCDC121 coiled-coil domain containing 121 [Source:HGNC Symbol;Acc:HGNC:1734]

Geneset Overrepresentation

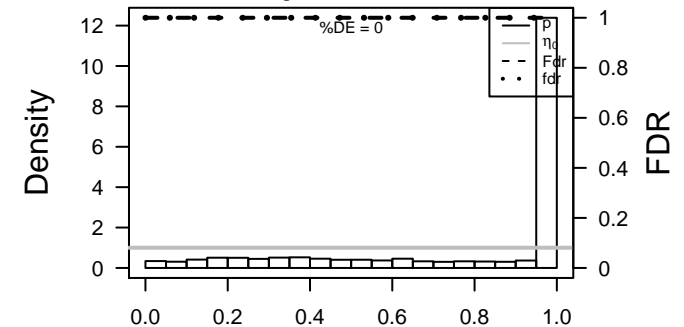
Rank	p-value	#in/all	Geneset
1	1e-11	17 / 126	BP homophilic cell adhesion via plasma membrane adhesion molecules
2	3e-09	16 / 158	Brain Overlap_fetal_midbrain_Het
3	9e-07	13 / 156	Brain Mid_Frontal_Lobe_TssA
4	3e-06	24 / 530	MF calcium ion binding
5	6e-06	12 / 156	GSE/ ACEVEDO_LIVER_CANCER_WITH_H3K27ME3_DN
6	2e-05	29 / 812	Brain Mid_Frontal_Lobe_TssP
7	4e-05	24 / 626	BP cell adhesion
8	5e-05	23 / 595	TF ICGC_NrsfPcr2_targets
9	1e-04	14 / 275	Lymp/ TARTE_Mature plasma cell signature
10	3e-04	6 / 58	Glio Christensen_hypermethylated_in_grade2_astrocytoma
11	6e-04	5 / 45	GSE/ MIDORIKAWA_AMPLIFIED_IN_LIVER_CANCER
12	8e-04	7 / 97	Glio Christensen_hypermethylated_in_grade3_astrocytoma
13	8e-04	22 / 674	GSE/ BENPORATH_SUZ12_TARGETS
14	1e-03	23 / 739	Color TxEnhG2_Colon
15	2e-03	6 / 82	GSE/ WINZEN_DEGRADED_VIA_KHSRP
16	2e-03	3 / 16	BP regulation of centrosome duplication
17	2e-03	22 / 724	GSE/ BENPORATH_EED_TARGETS
18	2e-03	3 / 17	GSE/ KIM_ALL_DISORDERS_CALB1_CORR_DN
19	3e-03	9 / 188	GSE/ YAUCH_HEDGEHOG_SIGNALING_PARACRINE_DN
20	3e-03	4 / 40	GSE/ HALMOS_CEBPA_TARGETS_DN
21	5e-03	3 / 22	Canc/ PanCan_HH_geneset_nanostring
22	5e-03	5 / 72	Glio laffaire_hypermeth_LGG_vs_control
23	5e-03	3 / 23	BP intrinsic apoptotic signaling pathway by p53 class mediator
24	5e-03	24 / 884	Brain Overlap_fetal_midbrain_EnhG
25	6e-03	4 / 46	GSE/ BROWNE_HCMV_INFECTION_1HR_UP
26	6e-03	20 / 696	Chr Chr 5
27	6e-03	2 / 8	Lifest DUMEAUX_Hormon therapy in non smokers literature genes up
28	7e-03	4 / 50	GSE/ JAZAG_TGFB1_SIGNALING_VIA_SMAD4_DN
29	8e-03	2 / 9	GSE/ PETRETTO_BLOOD_PRESSURE_UP
30	8e-03	2 / 9	GSE/ LY_AGING_MIDDLE_UP
31	8e-03	3 / 27	BP oligodendrocyte differentiation
32	8e-03	20 / 720	GSE/ BENPORATH_ES_WITH_H3K27ME3
33	1e-02	4 / 54	BP positive regulation of epithelial cell proliferation
34	1e-02	2 / 10	BP eyelid development in camera-type eye
35	1e-02	2 / 10	BP outflow tract septum morphogenesis
36	1e-02	2 / 10	GSE/ GHANDHI_BYSTANDER_IRRADIATION_DN
37	1e-02	3 / 29	GSE/ NUNODA_RESPONSE_TO_DASATINIB_IMATINIB_UP
38	1e-02	10 / 272	BP embryo development
39	1e-02	36 / 1565	BP regulation of transcription, DNA-templated
40	1e-02	6 / 118	Glio Christensen_hypermethylated_in_grade3_oligoastrocytoma

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: T

metagenes = 33
genes = 438

<r> metagenes = 0.95
<r> genes = 0.17
beta: r2= 4.02 / log p= -Inf

samples with spot = 16 (17.4 %)
MSC1 : 3 (7.1 %)
MSC3 : 13 (52 %)

Spot Genelist

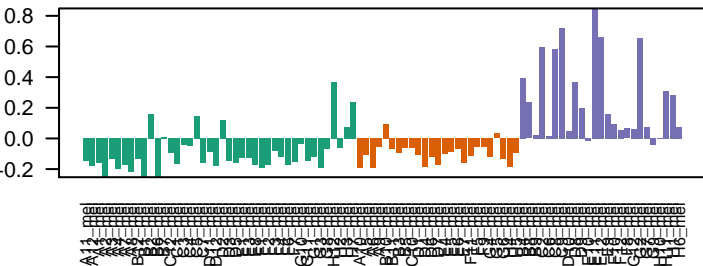
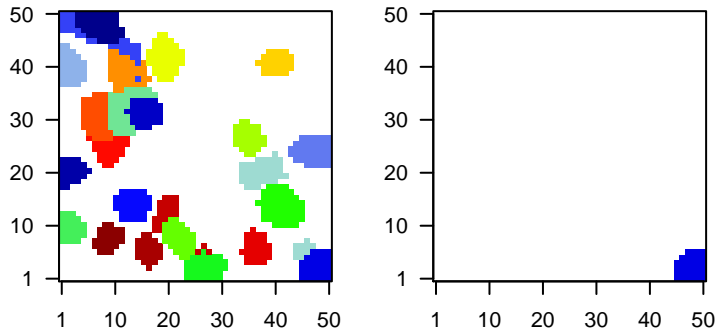
Rank	ID	max e	r	min e	Description
					Symbol
1	DKK1	2.85	-0.31	0.63	DKK1 dickkopf WNT signaling pathway inhibitor 1 [Source:HGNC S]
2	IL24	2.78	-0.11	0.59	IL24 interleukin 24 [Source:HGNC Symbol;Acc:HGNC:11346]
3	HBEGF	2.46	-0.25	0.53	HBEGF heparin-binding EGF-like growth factor [Source:HGNC Synt
4	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

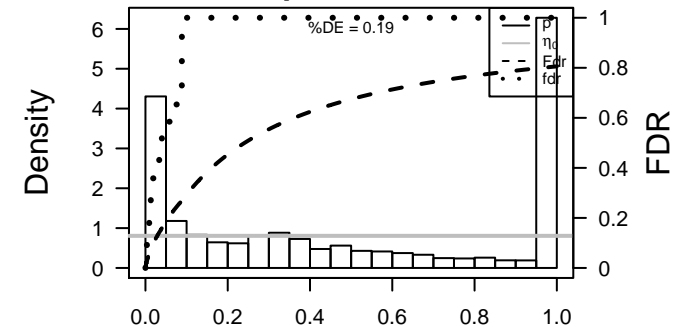
Rank	p-value	#in/all	Geneset
1	2e-32	73 / 472	GSE# DUTERTRE_ESTRADIOL_RESPONSE_24HR_DN
2	2e-30	56 / 286	GSE# PASINL_SUZ12_TARGETS_DN
3	3e-25	72 / 594	GSE# WONG_ADULT_TISSUE_STEM_MODULE
4	2e-24	80 / 749	GSE# CUI_TCF21_TARGETS_2_DN
5	7e-23	49 / 302	GSE# KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_DN
6	2e-21	85 / 930	GSE# NUYTEN_EZH2_TARGETS_UP
7	3e-21	40 / 212	Lymp# LENZ_Stromal signature 1
8	1e-20	55 / 425	GSE# CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN
9	3e-20	35 / 168	HM# HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
10	6e-19	51 / 401	GSE# CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN
11	2e-18	71 / 761	GSE# KOINUMA_TARGETS_OF_SMAD2_OR_SMAD3
12	1e-16	40 / 283	GSE# SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
13	2e-16	37 / 245	GSE# WANG_SMARCE1_TARGETS_UP
14	2e-16	48 / 410	GSE# LIM_MAMMARY_STEM_CELL_UP
15	2e-16	53 / 494	GSE# CHICAS_RB1_TARGETS_CONFLUENT
16	4e-16	46 / 385	GSE# REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
17	1e-15	70 / 833	GSE# DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
18	1e-14	34 / 234	GSE# LU_AGING_BRAIN_UP
19	1e-14	45 / 406	GSE# BAELDE_DIABETIC_NEPHROPATHY_DN
20	3e-14	33 / 227	GSE# ONDER_CDH1_TARGETS_2_UP
21	6e-14	38 / 308	CC# focal adhesion
22	6e-14	48 / 475	GSE# ONKEN_UVEAL_MELANOMA_DN
23	1e-13	21 / 91	GSE# BROWNE_HCMV_INFECTION_20HR_DN
24	2e-13	31 / 215	GSE# BILD_HRAS_ONCOGENIC_SIGNATURE
25	3e-13	2 / 14	Canc# LIU_PROSTATE_CANCER_DN
26	3e-13	27 / 163	GSE# PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
27	6e-13	73 / 1013	Brain# Fetal_TssP
28	1e-12	43 / 426	GSE# ZWANG_CLASS_1_TRANSIENTLY_INDUCED_BY_EGF
29	3e-12	41 / 400	GSE# HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_UP
30	4e-12	24 / 143	GSE# VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP
31	5e-12	23 / 131	Color# Marisa_CRC-cluster-a
32	6e-12	26 / 171	GSE# LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_UP
33	8e-12	39 / 377	GSE# SMID_BREAST_CANCER_LUMINAL_B_DN
34	8e-12	60 / 784	GSE# BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
35	1e-11	24 / 149	GSE# TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_DUCTAL_NORMAL
36	1e-11	51 / 609	MF# cytoskeletal protein binding
37	2e-11	27 / 195	GSE# SENESE_HDAC1_AND_HDAC2_TARGETS_DN
38	2e-11	26 / 181	HM# HALLMARK_P53_PATHWAY
39	2e-11	117 / 2188	Lymp# HOPP_Poised_promoter
40	3e-11	29 / 227	GSE# DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_UP

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: U

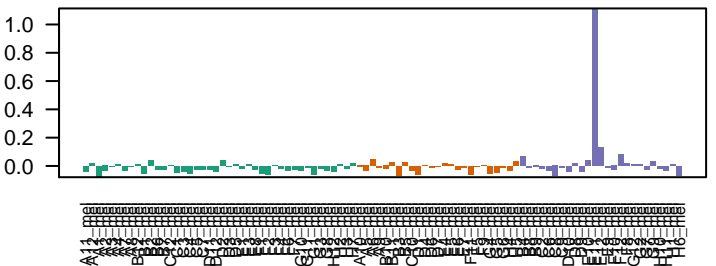
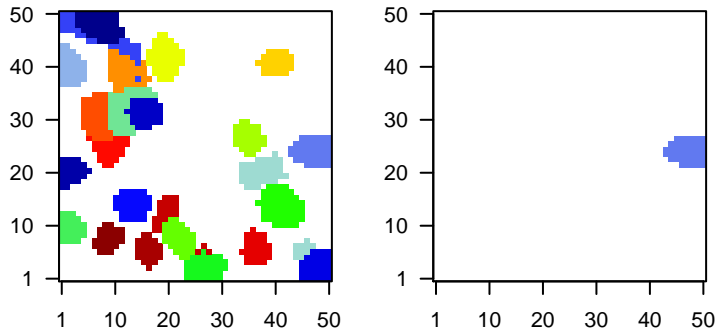
metagenes = 41
genes = 293

<r> metagenes = 0.93
<r> genes = 0.24
beta: r2= 0.88 / log p= -Inf

samples with spot = 1 (1.1 %)
MSC3 : 1 (4 %)

Overview Map

Spot

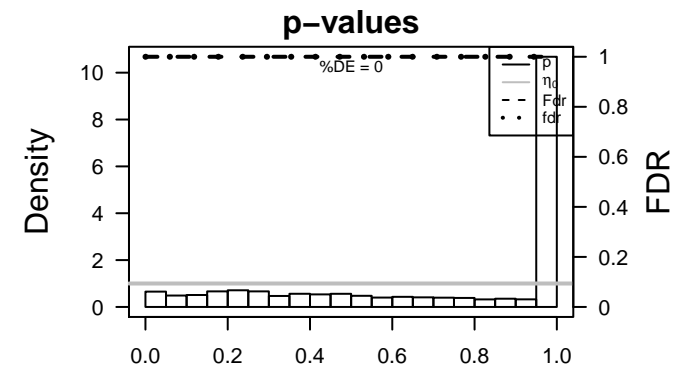


Spot Genelist

Rank	ID	max e	r	min e	Description
1	VCAN	2.39	-0.1	0.64	VCAN versican [Source:HGNC Symbol;Acc:HGNC:2464]
2	SIDT2	1.98	-0.08	0.21	SIDT2 SID1 transmembrane family, member 2 [Source:HGNC Symb
3	SCN2A	1.98	-0.06	0.67	SCN2A sodium channel, voltage gated, type II alpha subunit [Source:
4	CLHC1	1.96	-0.28	0.35	CLHC1 clathrin heavy chain linker domain containing 1 [Source:HGNC]
5	CEMIP	1.96	-0.23	0.46	CEMIP cell migration inducing protein, hyaluronan binding [Source:Hi
6	OXTR	1.94	-0.06	0.76	OXTR oxytocin receptor [Source:HGNC Symbol;Acc:HGNC:8529]
7	MYL4	1.93	-0.04	0.81	MYL4 myosin, light chain 4, alkali; atrial, embryonic [Source:HGNC
8	PHLDB2	1.91	-0.23	0.46	PHLDB2 pleckstrin homology-like domain, family B, member 2 [Source
9	CHL1	1.89	-0.05	0.73	CHL1 cell adhesion molecule L1-like [Source:HGNC Symbol;Acc:H
10	CCDC81	1.88	-0.05	0.77	CCDC81 coiled-coil domain containing 81 [Source:HGNC Symbol;Acc
11	SDC2	1.85	-0.15	0.51	SDC2 syndecan 2 [Source:HGNC Symbol;Acc:HGNC:10659]
12	GAD1	1.84	-0.07	0.72	GAD1 glutamate decarboxylase 1 (brain, 67kDa) [Source:HGNC Sy
13	SAMD9L	1.83	-0.22	0.3	SAMD9L sterile alpha motif domain containing 9-like [Source:HGNC S
14	TAB1	1.82	-0.27	0.31	TAB1 TGF-beta activated kinase 1/MAP3K7 binding protein 1 [Sou
15	DDX25	1.82	-0.16	0.41	DDX25 DEAD (Asp-Glu-Ala-Asp) box helicase 25 [Source:HGNC S
16	FBXO3	1.81	-0.52	0.27	FBXO3 F-box protein 3 [Source:HGNC Symbol;Acc:HGNC:13582]
17	HIST1H2BH	1.8	-0.08	0.54	HIST1H2BH histone cluster 1, H2bh [Source:HGNC Symbol;Acc:HGNC:41
18	NEGR1	1.79	-0.04	0.78	NEGR1 neuronal growth regulator 1 [Source:HGNC Symbol;Acc:HGN
19	PTPRO	1.79	-0.04	0.3	PTPRO protein tyrosine phosphatase, receptor type, O [Source:HGNC
20	TPCN1	1.78	-0.2	0.31	TPCN1 two pore segment channel 1 [Source:HGNC Symbol;Acc:HGI

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-07	70 / 1949	Brain Fetal_TssF
2	4e-06	24 / 427	Colon Quies2_Colon
3	4e-06	30 / 618	GSE# GOZGIT_ESR1_TARGETS_DN
4	1e-05	18 / 283	GSE# PEREZ_TP63_TARGETS
5	6e-05	67 / 2159	Colon TssP_Colon
6	1e-04	60 / 1907	Brain Fetal_TxTrans
7	1e-04	11 / 146	GSE# TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_UP
8	2e-04	3 / 7	Glio WILLSCHER_GBM_LTSwt_proteomics-G_UP
9	3e-04	19 / 400	GSE# HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_UP
10	4e-04	31 / 823	GSE# MEISSNER_BRAIN_HCP_WITH_H3K4ME3_AND_H3K27ME3
11	5e-04	8 / 93	GSE# PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_4
12	5e-04	7 / 72	GSE# MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_UP
13	5e-04	4 / 20	GSE# MARKS_HDAC_TARGETS_UP
14	6e-04	11 / 173	GSE# PEREZ_TP53_AND_TP63_TARGETS
15	8e-04	10 / 152	GSE# PEDRIOLI_MIR31_TARGETS_UP
16	8e-04	5 / 38	GSE# TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_DUCTAL_NORMAL
17	9e-04	8 / 102	GSE# CHEBOTAEV_GR_TARGETS_DN
18	9e-04	23 / 574	Brain Overlap_fetal_midbrain_TssP
19	1e-03	3 / 11	GSE# SA_PROGRAMMED_CELL_DEATH
20	1e-03	10 / 160	GSE# GAUSSMANN_MLL_AF4_FUSION_TARGETS_F_UP
21	1e-03	6 / 62	Glio cultured astroglia vs. in vivo astrocytes
22	1e-03	14 / 283	GSE# SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
23	1e-03	3 / 12	CC axonal growth cone
24	2e-03	41 / 1308	GSE# DODD_NASOPHARYNGEAL_CARCINOMA_UP
25	2e-03	10 / 168	HM HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
26	2e-03	5 / 46	GSE# CROMER_TUMORIGENESIS_UP
27	2e-03	8 / 119	BP skeletal system development
28	2e-03	7 / 94	GSE# WANG_HCP_PROSTATE_CANCER
29	3e-03	7 / 95	GSE# WANG_ESOPHAGUS_CANCER_VS_NORMAL_UP
30	3e-03	5 / 49	CC Golgi lumen
31	3e-03	6 / 72	GSE# REACTOME_MEIOTIC_RECOMBINATION
32	3e-03	4 / 31	GSE# FRASOR_RESPONSE_TO ESTRADIOL_UP
33	3e-03	4 / 31	GSE# CLASPER_LYMPHATIC_VESSELS_DURING_METASTASIS_DN
34	3e-03	34 / 1065	Brain Overlap_fetal_midbrain_Enh
35	3e-03	12 / 245	GSE# WANG_SMARCE1_TARGETS_UP
36	3e-03	11 / 214	GSE# HELLER_SILENCED_BY_METHYLATION_UP
37	3e-03	3 / 16	MF cysteine-type endopeptidase activator activity involved in apoptotic process
38	3e-03	7 / 100	GSE# REACTOME_MEIOSIS
39	4e-03	9 / 156	GSE# ACEVEDO_LIVER_CANCER_WITH_H3K27ME3_DN
40	4e-03	5 / 53	GSE# TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_NORMAL



Correlation Clusters

Spot Summary: V

metagenes = 28
genes = 236

<r> metagenes = 0.95
<r> genes = 0.24
beta: r2= 0.67 / log p= -Inf

samples with spot = 1 (1.1 %)
MSC3 : 1 (4 %)

Spot Genelist

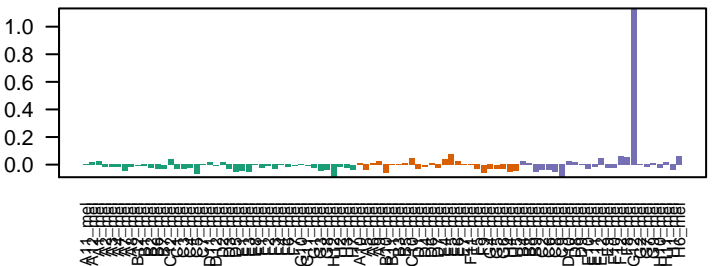
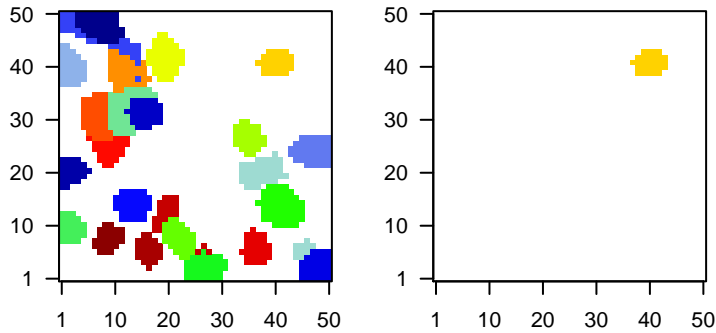
Rank	ID	max e	r	min e	Description
					Symbol
1	CDKL1	2.2	-0.24	0.39	CDKL1 cyclin-dependent kinase-like 1 (CDC2-related kinase) [Source:HGNC Symbol;Acc:HGNC:13618]
2	PRDM6	2.01	-0.06	0.5	PRDM6 PR domain containing 6 [Source:HGNC Symbol;Acc:HGNC:13618]
3	MLLT10	1.93	-0.65	0.3	MLLT10 myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog) [Source:HGNC Symbol;Acc:HGNC:13618]
4	PAFAH2	1.89	-0.22	0.4	PAFAH2 platelet-activating factor acetylhydrolase 2, 40kDa [Source:HGNC Symbol;Acc:HGNC:13618]
5	ZNF287	1.87	-0.07	0.57	ZNF287 zinc finger protein 287 [Source:HGNC Symbol;Acc:HGNC:13618]
6	FBXO16	1.84	-0.09	0.39	FBXO16 F-box protein 16 [Source:HGNC Symbol;Acc:HGNC:13618]
7	ZNF221	1.83	-0.1	0.43	ZNF221 zinc finger protein 221 [Source:HGNC Symbol;Acc:HGNC:13618]
8	TMEM55B	1.81	-0.24	0.38	TMEM55B transmembrane protein 55B [Source:HGNC Symbol;Acc:HGNC:13618]
9	SLC22A1	1.81	-0.09	0.66	SLC22A1 solute carrier family 22 (organic cation transporter), member 1 [Source:HGNC Symbol;Acc:HGNC:13618]
10	THBS3	1.78	-0.1	0.52	THBS3 thrombospondin 3 [Source:HGNC Symbol;Acc:HGNC:11787]
11	TBC1D19	1.77	-0.25	0.44	TBC1D19 TBC1 domain family, member 19 [Source:HGNC Symbol;Acc:HGNC:13618]
12	SPTLC3	1.76	-0.07	0.57	SPTLC3 serine palmitoyltransferase, long chain base subunit 3 [Source:HGNC Symbol;Acc:HGNC:13618]
13	SLC25A42	1.76	-0.06	0.63	SLC25A42 solute carrier family 25, member 42 [Source:HGNC Symbol;Acc:HGNC:13618]
14	WDR83	1.74	-0.16	0.27	WDR83 WD repeat domain 83 [Source:HGNC Symbol;Acc:HGNC:13618]
15	PFKFB4	1.74	-0.13	0.5	PFKFB4 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 4 [Source:HGNC Symbol;Acc:HGNC:13618]
16	PFKP	1.73	-0.4	0.4	PFKP phosphofructokinase, platelet [Source:HGNC Symbol;Acc:HGNC:13618]
17	RNASET2	1.72	-0.12	0.51	RNASET2 ribonuclease T2 [Source:HGNC Symbol;Acc:HGNC:21686]
18	ZNF34	1.71	-0.21	0.29	ZNF34 zinc finger protein 34 [Source:HGNC Symbol;Acc:HGNC:130]
19	HIP1	1.71	-0.31	0.32	HIP1 huntingtin interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:13618]
20	PPARG	1.7	-0.14	0.29	PPARG peroxisome proliferator-activated receptor gamma [Source:HGNC Symbol;Acc:HGNC:13618]

Geneset Overrepresentation

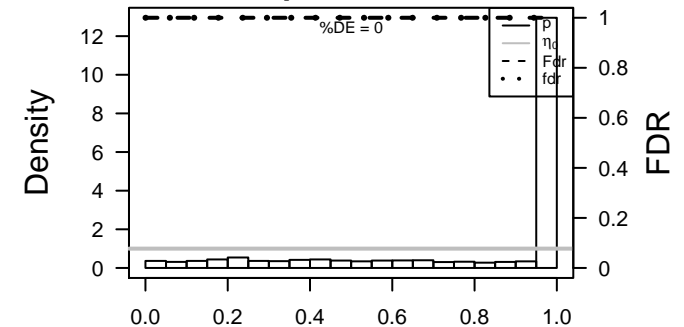
Rank	p-value	#in/all	Geneset
1	7e-05	57 / 2188	Lympl HOPP_Poised_promoter
2	1e-04	79 / 3396	Lympl HOPP_Repressed
3	1e-04	71 / 2972	Brain Mid_Frontal_Lobe_ReprPC
4	4e-04	37 / 1308	GSE# DODD_NASOPHARYNGEAL_CARINOMA_UP
5	5e-04	59 / 2462	Brain Mid_Frontal_Lobe_HetRpts
6	6e-04	12 / 250	Colon K9K27me3_Colon
7	7e-04	48 / 1907	Brain Fetal_TxTrans
8	1e-03	3 / 13	GSE# REACTOME_FGFR_LIGAND_BINDING_AND_ACTIVATION
9	1e-03	3 / 13	GSE# VALK_AML_WITH_11Q23_REARRANGED
10	2e-03	3 / 15	MF fibroblast growth factor binding
11	2e-03	19 / 568	GSE# MIKKELSEN_ES_ICP_WITH_H3K4ME3
12	2e-03	51 / 2159	Colon TssP_Colon
13	2e-03	4 / 36	GSE# REACTOME_SIGNALING_BY_FGFR_MUTANTS
14	3e-03	21 / 686	Brain Overlap_fetal_midbrain_Tssa
15	3e-03	45 / 1889	Colon ReprPCWk_Colon
16	3e-03	3 / 19	GSE# REACTOME_SHC_MEDIATED_CASCADE
17	3e-03	3 / 19	GSE# VALK_AML_CLUSTER_16
18	3e-03	21 / 689	Chr Chr 7
19	4e-03	6 / 94	GSE# KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP
20	4e-03	4 / 41	BP positive regulation of MAP kinase activity
21	4e-03	49 / 2142	Colon ReprPC_Colon
22	5e-03	2 / 7	GSE# REACTOME_FGFR4_LIGAND_BINDING_AND_ACTIVATION
23	6e-03	4 / 46	MF manganese ion binding
24	6e-03	6 / 104	GSE# SENGUPTA_NASOPHARYNGEAL_CARINOMA_WITH_LMP1_DN
25	6e-03	3 / 24	BP regulation of lipid metabolic process
26	6e-03	3 / 24	GSE# ROZANOV_MMP14_TARGETS_DN
27	6e-03	4 / 47	GSE# PID_FGF_PATHWAY
28	6e-03	4 / 47	GSE# KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DENSITY_CORR_DN
29	6e-03	6 / 105	GSE# REACTOME_SIGNALING_BY_RHO_GTPASES
30	7e-03	8 / 175	CC early endosome
31	7e-03	4 / 49	GSE# NAGASHIMA_NRG1_SIGNALING_DN
32	8e-03	3 / 26	GSE# REACTOME_NEGATIVE_REGULATION_OF_FGFR_SIGNALING
33	8e-03	8 / 180	GSE# COLDREN_GEFITINIB_RESISTANCE_DN
34	8e-03	13 / 383	Brain Fetal_Tx
35	8e-03	97 / 4992	MF ion binding
36	8e-03	2 / 9	GSE# HASEGAWA_TUMORIGENESIS_BY_RET_C634R
37	8e-03	13 / 385	GSE# MIKKELSEN_NPC_ICP_WITH_H3K4ME3
38	9e-03	3 / 27	GSE# REACTOME_FRS2_MEDIATED_CASCADE
39	9e-03	3 / 27	GSE# MUELLER_COMMON_TARGETS_OF_AML_FUSIONS_DN
40	1e-02	3 / 28	miRN hsa-miR-1292

Overview Map

Spot



p-values



Correlation Clusters

Spot Summary: W

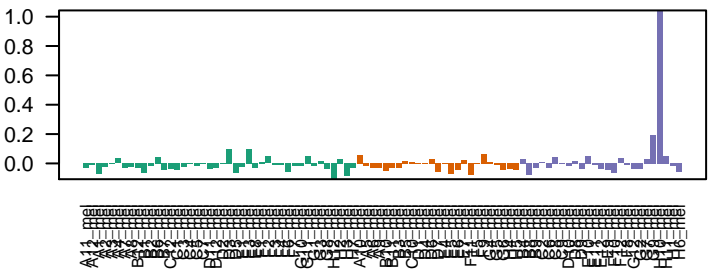
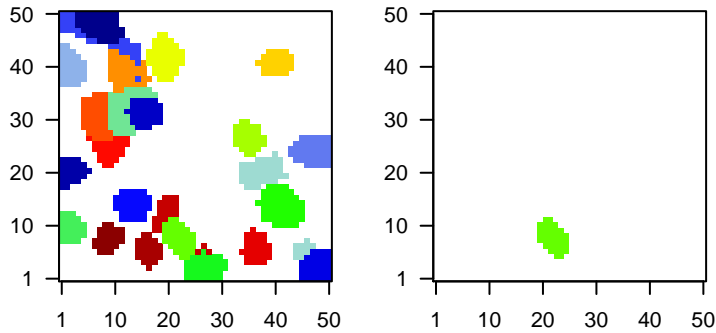
metagenes = 34
genes = 258

<r> metagenes = 0.93
<r> genes = 0.22
beta: r2= 0.75 / log p= -Inf

samples with spot = 2 (2.2 %)
MSC3 : 2 (8 %)

Overview Map

Spot

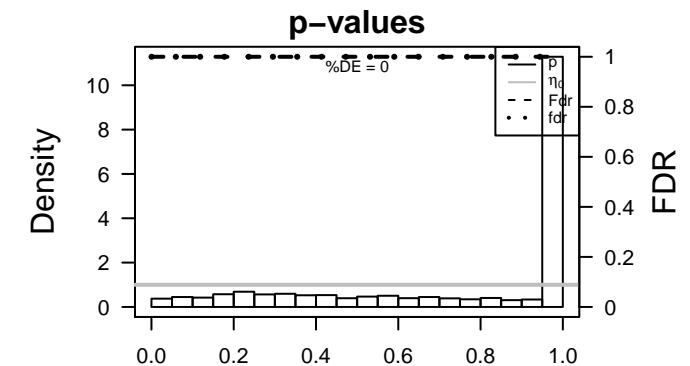


Spot Genelist

Rank	ID	max e	r	min e	Description
1	MDGA1	2.66	-0.09	0.7	MDGA1 MAM domain containing glycosylphosphatidylinositol anchor
2	UCN	2.09	-0.09	0.57	UCN urocortin [Source:HGNC Symbol;Acc:HGNC:12516]
3	FAM214A	2.08	-0.56	0.27	FAM214A family with sequence similarity 214, member A [Source:HGNC]
4	DGKD	1.97	-0.29	0.3	DGKD diacylglycerol kinase, delta 130kDa [Source:HGNC Symbol;A
5	GPR82	1.95	-0.17	0.4	GPR82 G protein-coupled receptor 82 [Source:HGNC Symbol;Acc:H
6	LACE1	1.9	-0.39	0.28	LACE1 lactation elevated 1 [Source:HGNC Symbol;Acc:HGNC:1641
7	CPM	1.9	-0.35	0.37	CPM carboxypeptidase M [Source:HGNC Symbol;Acc:HGNC:2311
8	BEND7	1.89	-0.18	0.51	BEND7 BEN domain containing 7 [Source:HGNC Symbol;Acc:HGNC
9	MFSD9	1.89	-0.22	0.46	MFSD9 major facilitator superfamily domain containing 9 [Source:HGI
10	PCOLCE	1.89	-0.09	0.58	PCOLCE procollagen C-endopeptidase enhancer [Source:HGNC Sym
11	PPP1R3E	1.88	-0.08	0.55	PPP1R3E protein phosphatase 1, regulatory subunit 3E [Source:HGNC
12	ZNF625-ZNF	1.87	-0.15	0.35	ZNF625-ZNF205-ZNF205 readthrough (NMD candidate) [Source:HGNC]
13	GAB3	1.85	-0.1	0.46	GAB3 GRB2-associated binding protein 3 [Source:HGNC Symbol;#
14	LAT	1.85	-0.11	0.49	LAT linker for activation of T cells [Source:HGNC Symbol;Acc:HGI
15	AGO2	1.83	-0.49	0.27	AGO2 argonaute RISC catalytic component 2 [Source:HGNC Symb
16	LRP5L	1.81	-0.12	0.47	LRP5L low density lipoprotein receptor-related protein 5-like [Sourc
17	SOX9	1.79	-0.07	0.66	SOX9 SRY (sex determining region Y)-box 9 [Source:HGNC Symb
18	ENGASE	1.77	-0.15	0.45	ENGASE endo-beta-N-acetylglucosaminidase [Source:HGNC Symbo
19	CHAC1	1.75	-0.08	0.65	CHAC1 ChaC glutathione-specific gamma-glutamylcyclotransferase
20	FAM227B	1.72	-0.12	0.52	FAM227B family with sequence similarity 227, member B [Source:HGNC]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	4e-07	4 / 5	GSE/ REACTOME_DIGESTION_OF_DIETARY_CARBOHYDRATE
2	2e-04	5 / 31	GSE/ KEGG_STARCH_AND_SUCROSE_METABOLISM
3	5e-04	28 / 823	GSE/ MEISSNER_BRAIN_HCP_WITH_H3K4ME3_AND_H3K27ME3
4	6e-04	7 / 83	GSE/ LEIN_CHOROID_PLEXUS_MARKERS
5	7e-04	73 / 2972	Brain Mid_Frontal_Lobe_ReprPC
6	8e-04	15 / 335	Chr Chr 22
7	1e-03	13 / 280	miRN hsa-miR-30c
8	2e-03	42 / 1548	Brain Mid_Frontal_Lobe_K9K27me3
9	2e-03	3 / 16	GSE/ NIELSEN_GIST_VS_SYNOVIAL_SARCOMA_UP
10	3e-03	13 / 304	GSE/ GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN
11	3e-03	12 / 270	miRN hsa-miR-30b
12	4e-03	9 / 178	GSE/ BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_UP
13	4e-03	5 / 61	GSE/ HUANG_GATA2_TARGETS_DN
14	4e-03	3 / 19	BP cAMP-mediated signaling
15	4e-03	4 / 38	GSE/ SAGIV_CD24_TARGETS_DN
16	4e-03	14 / 361	GSE/ LU_EZH2_TARGETS_DN
17	4e-03	5 / 62	BP canonical Wnt signaling pathway
18	5e-03	47 / 1859	MF metal ion binding
19	5e-03	59 / 2462	Brain Mid_Frontal_Lobe_HetRpts
20	5e-03	6 / 91	GSE/ MARZEC_IL2_SIGNALING_UP
21	6e-03	4 / 42	GSE/ PID_PTP1B_PATHWAY
22	6e-03	6 / 95	MF hydrolase activity, acting on glycosyl bonds
23	6e-03	11 / 264	miRN hsa-miR-30a
24	6e-03	11 / 264	GSE/ MIKKELSEN_MCV6_HCP_WITH_H3K27ME3
25	7e-03	6 / 98	GSE/ RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATELY_UP
26	7e-03	11 / 269	miRN hsa-miR-30d
27	8e-03	3 / 24	BP digestion
28	8e-03	7 / 132	miRN hsa-miR-199b-5p
29	9e-03	8 / 167	GSE/ BROWNE_HCMV_INFECTION_18HR_UP
30	9e-03	4 / 47	GSE/ MCCLUNG_CREB1_TARGETS_DN
31	9e-03	3 / 25	BP positive regulation of BMP signaling pathway
32	9e-03	3 / 25	GSE/ MA_PITUITARY_FETAL_VS_ADULT_UP
33	9e-03	12 / 315	miRN hsa-miR-559
34	1e-02	3 / 27	BP positive regulation of DNA replication
35	1e-02	3 / 27	GSE/ ZHAN_MULTIPLE_MYELOMA_DN
36	1e-02	4 / 51	miRN hsa-miR-556-3p
37	1e-02	12 / 327	GSE/ DELACROIX_RARG_BOUND_MEF
38	1e-02	3 / 28	BP tricarboxylic acid cycle
39	1e-02	3 / 28	GSE/ KEGG_CITRATE_CYCLE_TCA_CYCLE
40	1e-02	3 / 28	GSE/ HOFFMANN_PRE_BI_TO_LARGE_PRE_BII_LYMPHOCYTE_UP



Correlation Clusters

Spot Summary: X

metagenes = 25
genes = 261

<r> metagenes = 0.92

<r> genes = 0.41

beta: r2= 0.18 / log p= -4.68

samples with spot = 3 (3.3 %)

MSC3 : 3 (12 %)

Spot Genelist

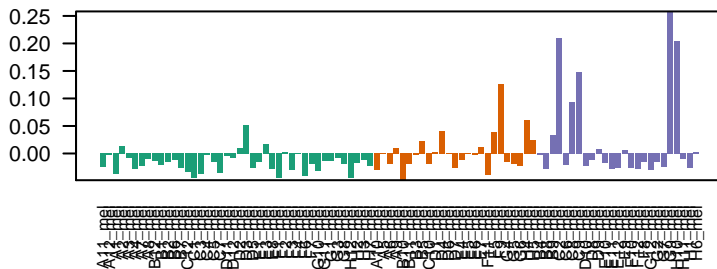
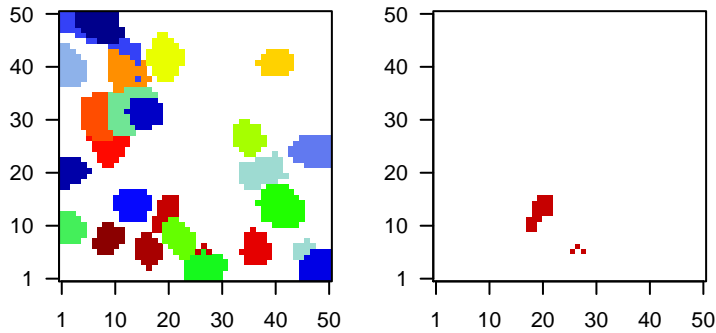
Rank	ID	max e	r	min e	Description
					Symbol
1	TRIM52	1.9	-0.29	0.38	TRIM52 tripartite motif containing 52 [Source:HGNC Symbol;Acc:HGNC:10000]
2	RGS5	1.66	-0.3	0.4	RGS5 regulator of G-protein signaling 5 [Source:HGNC Symbol;Acc:HGNC:10000]
3	B4GALNT4	1.55	-0.05	0.33	B4GALNT4 beta-1,4-N-acetyl-galactosaminyl transferase 4 [Source:HGNC Symbol;Acc:HGNC:10000]
4	ARHGAP24	1.54	-0.11	0.21	ARHGAP24 Rho GTPase activating protein 24 [Source:HGNC Symbol;Acc:HGNC:10000]
5	BMX	1.5	-0.05	0.38	BMX BMX non-receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:10000]
6	MRI1	1.48	-0.15	0.21	MRI1 methylthioribose-1-phosphate isomerase 1 [Source:HGNC Symbol;Acc:HGNC:10000]
7	ADAMTS17	1.47	-0.1	0.45	ADAMTS17 ADAM metalloproteinase with thrombospondin type 1 motif, 17 [Source:HGNC Symbol;Acc:HGNC:10000]
8	ASIC4	1.44	-0.07	0.32	ASIC4 acid sensing (proton gated) ion channel family member 4 [Source:HGNC Symbol;Acc:HGNC:10000]
9	AQP4	1.42	-0.06	0.42	AQP4 aquaporin 4 [Source:HGNC Symbol;Acc:HGNC:637]
10	APOC1	1.42	-0.07	0.42	APOC1 apolipoprotein C-I [Source:HGNC Symbol;Acc:HGNC:607]
11	PERP	1.39	-0.37	0.33	PERP, TP53 apoptosis effector [Source:HGNC Symbol;Acc:HGNC:10000]
12	AC003006.7	1.36	-0.13	0.46	
13	CCR9	1.32	-0.04	0.36	CCR9 chemokine (C-C motif) receptor 9 [Source:HGNC Symbol;Acc:HGNC:10000]
14	AMIGO1	1.29	-0.1	0.27	AMIGO1 adhesion molecule with Ig-like domain 1 [Source:HGNC Symbol;Acc:HGNC:10000]
15	CAGE1	1.28	-0.03	0.18	CAGE1 cancer antigen 1 [Source:HGNC Symbol;Acc:HGNC:21622]
16	BFSP1	1.28	-0.04	0.31	BFSP1 beaded filament structural protein 1, filensin [Source:HGNC Symbol;Acc:HGNC:10000]
17	ANGPTL6	1.27	-0.1	0.33	ANGPTL6 angiopoietin-like 6 [Source:HGNC Symbol;Acc:HGNC:23140]
18	SAMD11	1.24	-0.06	0.73	SAMD11 sterile alpha motif domain containing 11 [Source:HGNC Symbol;Acc:HGNC:10000]
19	ZC3H12C	1.22	-0.32	0.5	ZC3H12C zinc finger CCCH-type containing 12C [Source:HGNC Symbol;Acc:HGNC:10000]
20	AKR1E2	1.22	-0.1	0.36	AKR1E2 aldo-keto reductase family 1, member E2 [Source:HGNC Symbol;Acc:HGNC:10000]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	8e-16	116 / 3396	LympL HOPP_Repressed
2	1e-12	81 / 2142	Colon ReprPC_Colon
3	3e-12	74 / 1889	Colon ReprPCWk_Colon
4	5e-08	10 / 58	GSE/ KEGG_CARDIAC_MUSCLE_CONTRACTION
5	5e-08	70 / 2159	Colon TssP_Colon
6	9e-08	70 / 2188	LympL HOPP_Poised_promoter
7	3e-07	7 / 27	MF chemokine activity
8	4e-07	6 / 18	CC voltage-gated calcium channel complex
9	1e-06	12 / 124	BP regulation of small GTPase mediated signal transduction
10	3e-06	4 / 7	GSE/ REACTOME_PASSIVE_TRANSPORT_BY_AQUAPORINS
11	6e-06	37 / 989	Brain Mid_Frontal_Lobe_Quies
12	1e-05	10 / 105	GSE/ REACTOME_SIGNALING_BY_RHO_GTPASES
13	1e-05	13 / 179	GSE/ NABA_SECRETED_FACTORS
14	2e-05	6 / 32	BP cell chemotaxis
15	2e-05	41 / 1207	Brain Overlap_fetal_midbrain_TssF
16	2e-05	79 / 2972	Brain Mid_Frontal_Lobe_ReprPC
17	2e-05	22 / 468	Brain Mid_Frontal_Lobe_TssF
18	3e-05	43 / 1317	Color EnhP_Colon
19	3e-05	32 / 862	Brain Overlap_fetal_midbrain_TxTrans
20	5e-05	27 / 686	Brain Overlap_fetal_midbrain_TssA
21	5e-05	19 / 395	GSE/ MARTENS_TRETINOIN_RESPONSE_UP
22	7e-05	5 / 26	MF transforming growth factor beta receptor binding
23	7e-05	5 / 26	GSE/ REACTOME_CHEMOKINE_RECEPTORS_BIND_CHEMOKINES
24	9e-05	5 / 27	MF voltage-gated calcium channel activity
25	9e-05	5 / 27	BP water transport
26	9e-05	13 / 216	BP immune response
27	1e-04	8 / 84	GSE/ REACTOME_PEPTIDE_LIGAND_BINDING_RECEPTORS
28	1e-04	13 / 217	MF GTPase activator activity
29	1e-04	5 / 29	GSE/ REACTOME_ION_TRANSPORT_BY_P_TYPE_ATPASES
30	2e-04	32 / 936	GSE/ ZWANG_TRANSIENTLY_UP_BY_2ND_EGF_PULSE_ONLY
31	2e-04	10 / 143	GSE/ REACTOME_CLASS_A1_RHODOPSIN_LIKE_RECEPTORS
32	2e-04	59 / 2185	Brain Fetal_TssA
33	2e-04	7 / 72	GSE/ KEGG_DILATED_CARDIOMYOPATHY
34	3e-04	7 / 73	BP chemotaxis
35	3e-04	3 / 8	GSE/ BYSTRYKH_HEMATOPOIESIS_STEM_CELL_FGF3
36	3e-04	19 / 452	Color Lembcke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
37	3e-04	38 / 1236	Brain Mid_Frontal_Lobe_ReprPCWk
38	3e-04	10 / 153	GSE/ LEE_DIFFERENTIATING_T_LYMPHOCYTE
39	3e-04	4 / 20	GSE/ KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION
40	4e-04	28 / 812	Brain Mid_Frontal_Lobe_TssP

Overview Map

Spot



p-values

