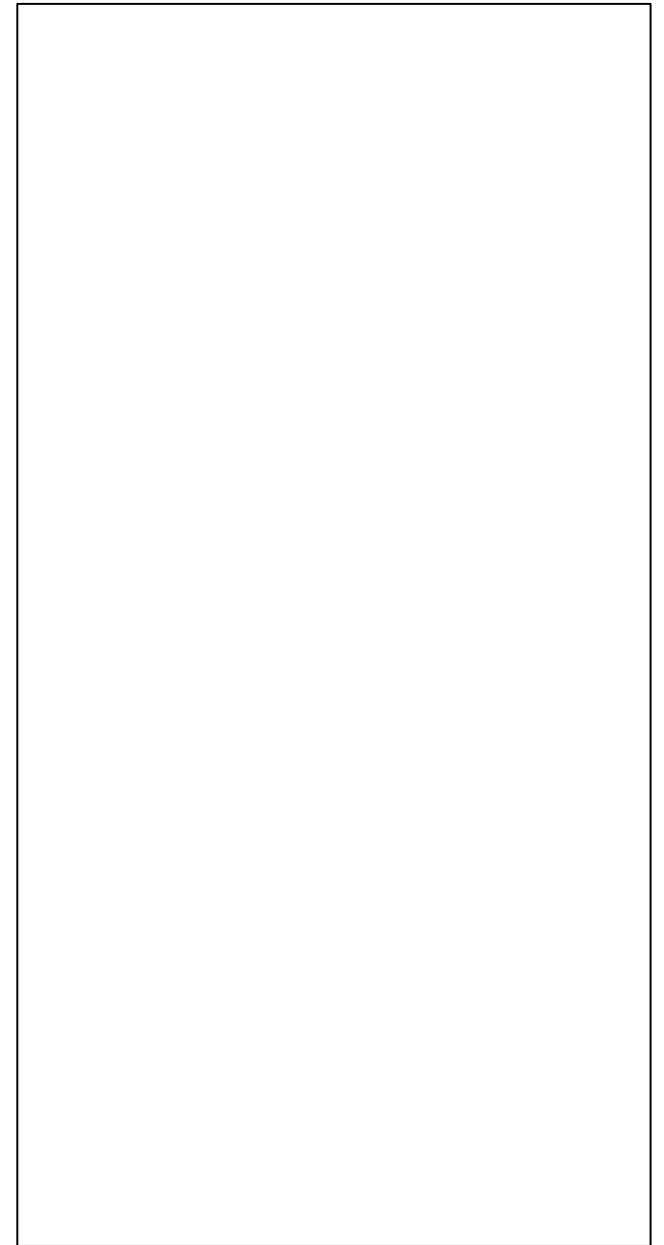
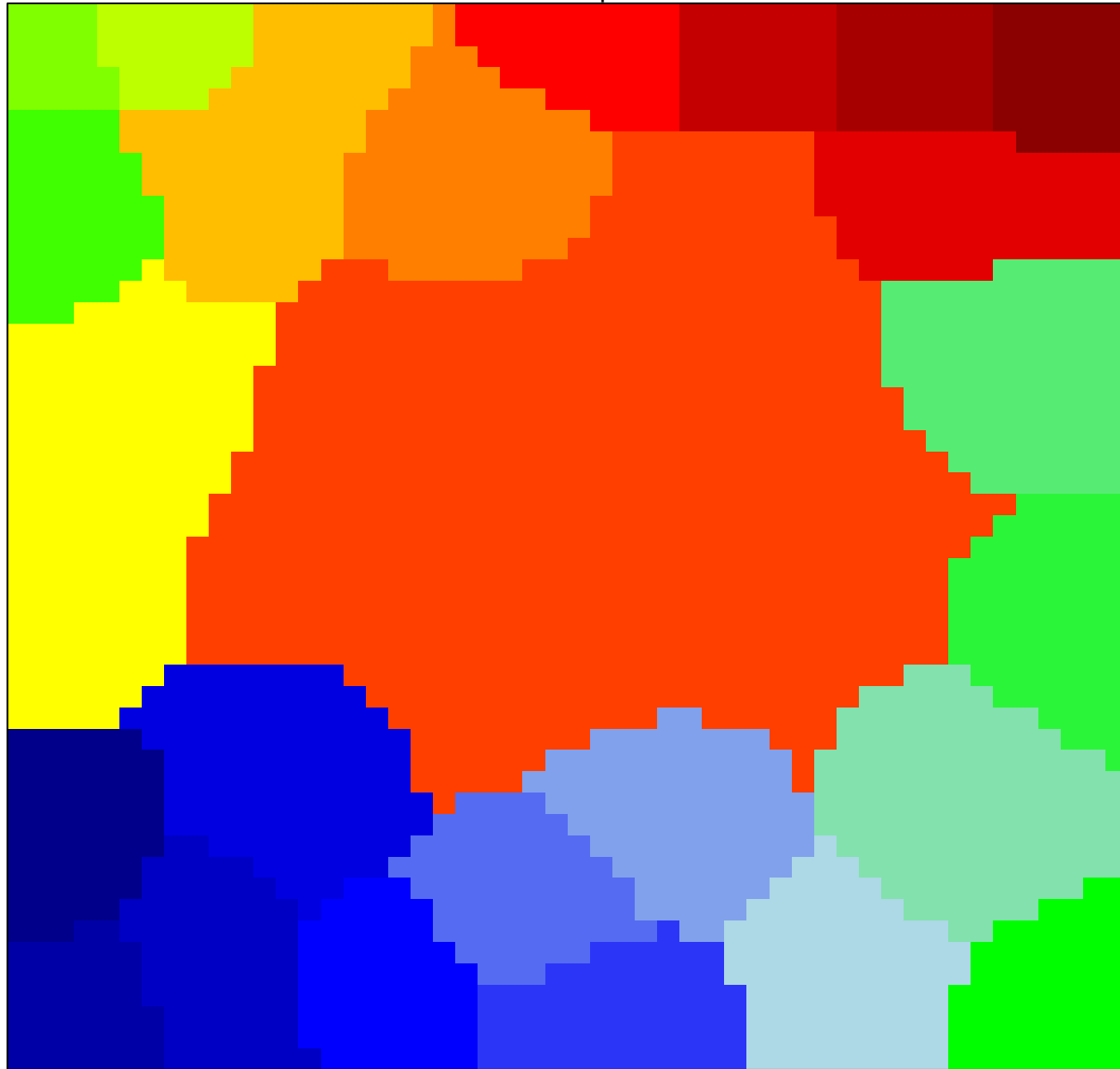


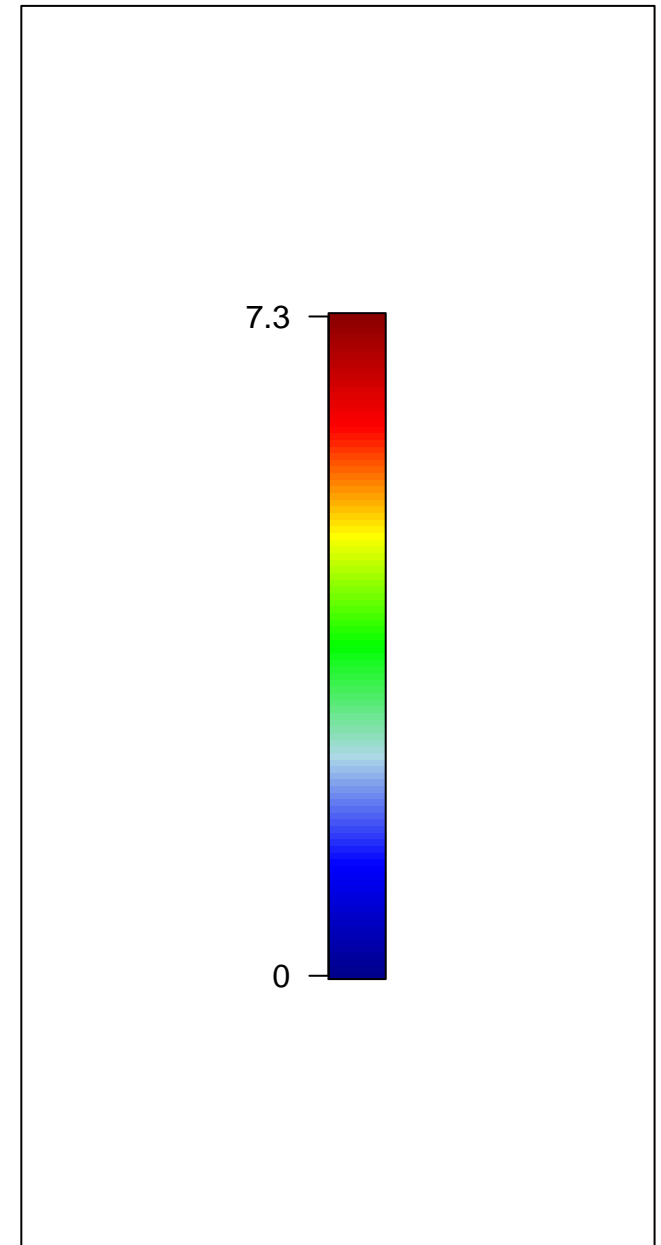
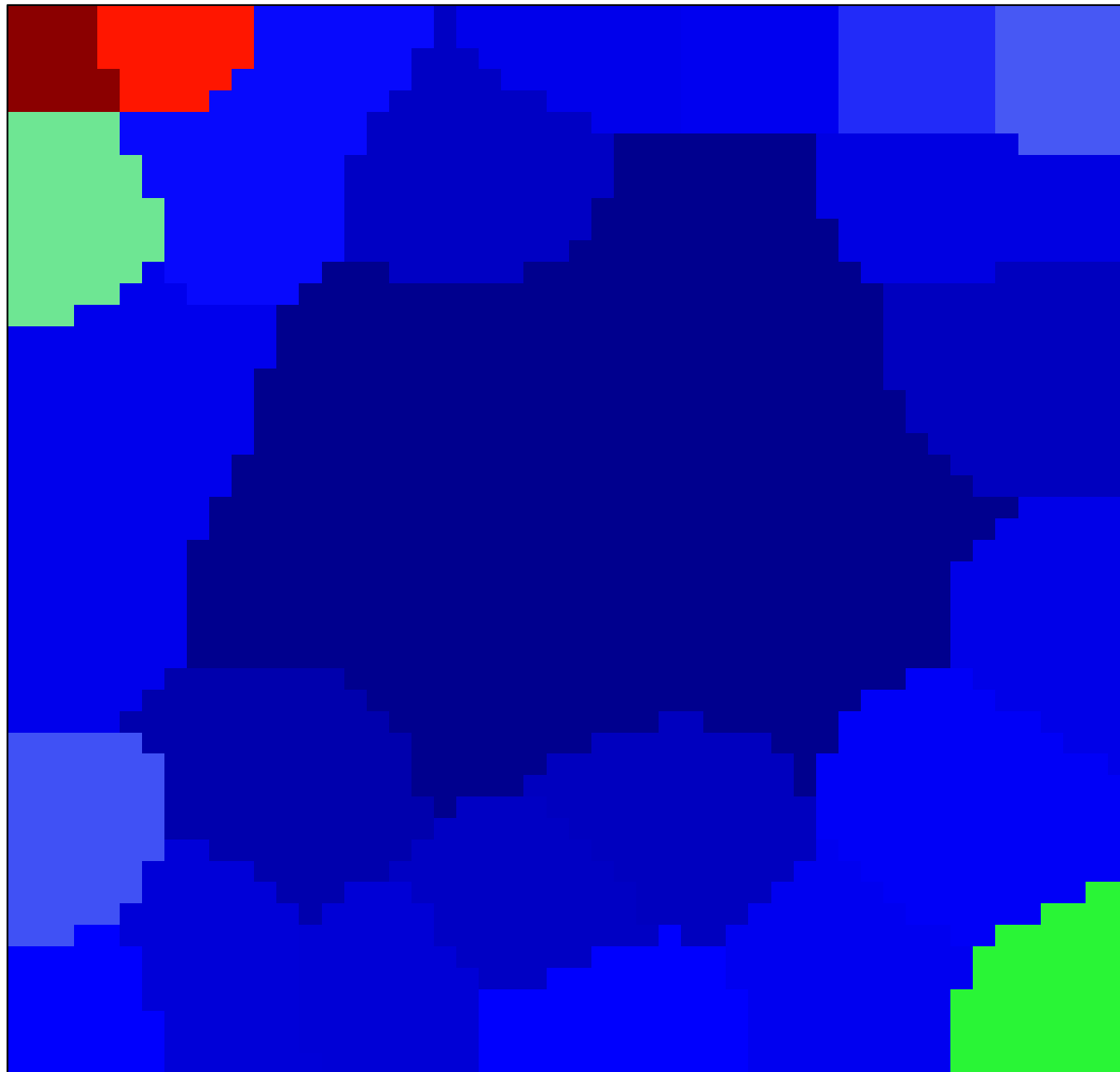
K-Means Clusters

landscape



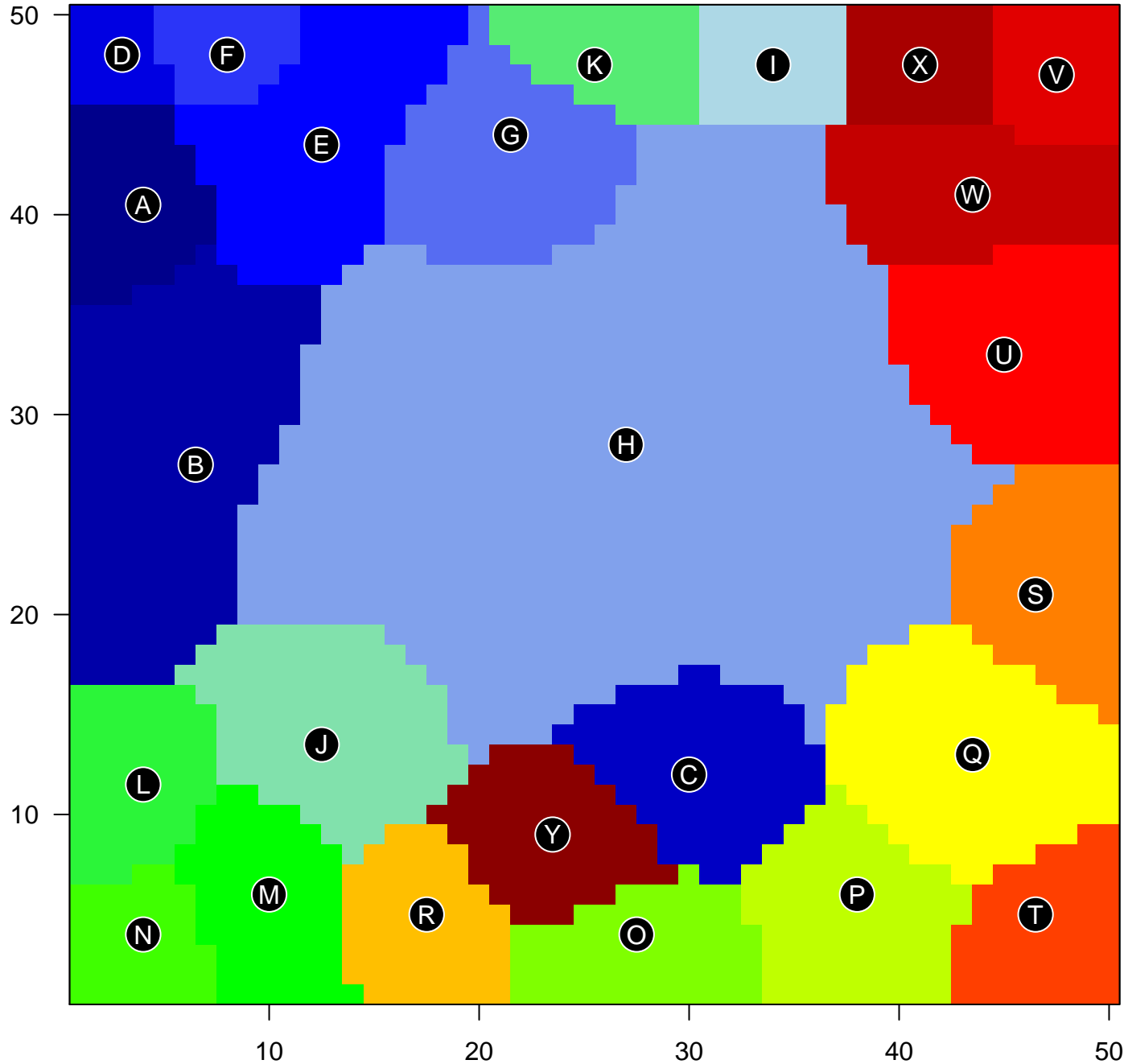
K-Means Clusters

beta-scores



K-Means Clusters

annotation



- A ■ mitochondrion
HALLMARK_OXIDATIVE_PHOSPHORYLATION
TssA_Colon
- B ■ TssA_Colon
mitochondrial inner membrane
respiratory electron transport chain
- C ■ FOSTER_TOLERANT_MACROPHAGE_DN
hsa-miR-204
INAMURA_LUNG_CANCER_SCC_SUBTYPES_DN
- D ■ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
- E ■ Overlap_fetal_midbrain_ReprPC
TssA_Colon
HOPP_Txn_elongation
- F ■ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
WILLSCHER_GBM_Verhaak-CL_up (C)
SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
- G ■ Overlap_fetal_midbrain_ReprPC
Chr 6
HOPP_Txn_elongation
- H ■ ReprPC_Colon
TssP_Colon
ReprPCWk_Colon
- I ■ TssA_Colon
Tx_Colon
TxWk_Colon
- J ■ TssP_Colon
Lembcke_TCGA-expr_kmeans_M_CIMP.H_DN
TARTE_B-cell signature
- K ■ TssA_Colon
Tx_Colon
TxWk_Colon
- L ■ Overlap_fetal_midbrain_ReprPC
Overlap_fetal_midbrain_K9K27me3
Overlap_fetal_midbrain_ReprPCWk
- M ■ nucleic acid binding
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_MON
response to ionizing radiation
- N ■ ZNF_Colon
transcription, DNA-templated
GRAESSMANN_RESPONSE_TO_MC_AND_SERUM_DEF
- O ■ KEGG_ABC_TRANSPORTERS
metalloendopeptidase activity
ATPase activity, coupled to transmembrane movement of su
- P ■ REACTOME_IMMUNOREGULATORY_INTERACTIONS_B

K-Means Clusters

Spot Summary: A

metagenes = 57
genes = 593

<r> metagenes = 0.89
<r> genes = 0.12
beta: r2= 2.86 / log p= -Inf

samples with spot = 21 (22.8 %)
MSC1 : 15 (35.7 %)
MSC2 : 6 (24 %)

Spot Genelist

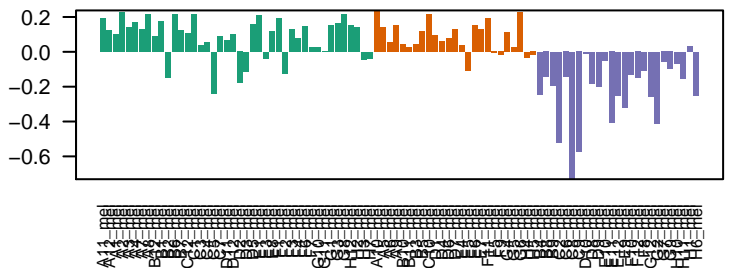
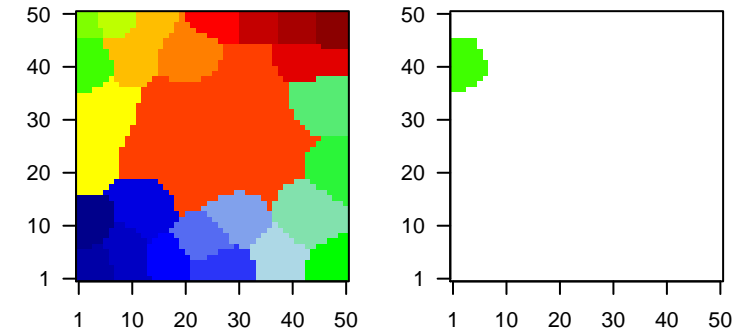
Rank	ID	max e	r	min e	Description
1	ZNF577	1.94	-0.21	0.27	ZNF577 zinc finger protein 577 [Source:HGNC Symbol;Acc:HGNC:28]
2	SLC25A27	1.92	-0.36	0.24	SLC25A27olute carrier family 25, member 27 [Source:HGNC Symbol;A
3	IGFLR1	1.76	-0.35	0.32	IGFLR1 IGF-like family receptor 1 [Source:HGNC Symbol;Acc:HGNC
4	MARCH3	1.72	-0.43	0.33	MARCH3membrane-associated ring finger (C3HC4) 3, E3 ubiquitin pr
5	BCS1L	1.71	-0.91	0.27	BCS1L BC1 (ubiquinol-cytochrome c reductase) synthesis-like [Sou
6	THUMP2	1.71	-1.04	0.28	THUMP2THUMP domain containing 2 [Source:HGNC Symbol;Acc:HG
7	ZNF30	1.71	-0.15	0.26	ZNF30 zinc finger protein 30 [Source:HGNC Symbol;Acc:HGNC:130]
8	GAPDHS	1.71	-1.17	0.59	GAPDHSglyceraldehyde-3-phosphate dehydrogenase, spermatogenic
9	ST6GALNAC	1.69	-0.39	0.32	ST6GALNAC6 alpha-N-acetylneuraminyl-2,3-beta-galactosyl-1,3)-
10	PLA2G15	1.68	-0.42	0.23	PLA2G15phospholipase A2, group XV [Source:HGNC Symbol;Acc:HG
11	TRMT1	1.65	-0.71	0.36	TRMT1 tRNA methyltransferase 1 homolog (S. cerevisiae) [Source:Hi
12	MCCC1	1.64	-0.58	0.24	MCCC1 methylcrotonyl-CoA carboxylase 1 (alpha) [Source:HGNC S
13	ZNF141	1.64	-0.32	0.26	ZNF141 zinc finger protein 141 [Source:HGNC Symbol;Acc:HGNC:12
14	NMRK2	1.63	-1.2	0.71	NMRK2 nicotinamide riboside kinase 2 [Source:HGNC Symbol;Acc:Hi
15	NT5DC1	1.63	-0.93	0.28	NT5DC1 5'-nucleotidase domain containing 1 [Source:HGNC Symbol;
16	SEPSECS	1.63	-0.31	0.32	SEPSECSep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA syr
17	FAM81A	1.62	-0.21	0.22	FAM81A family with sequence similarity 81, member A [Source:HGNC
18	WIPF3	1.62	-0.29	0.33	WIPF3 WAS/WASL interacting protein family, member 3 [Source:HGI
19	MED24	1.62	-0.74	0.24	MED24 mediator complex subunit 24 [Source:HGNC Symbol;Acc:HG
20	ANO2	1.61	-0.48	0.34	ANO2 anoctamin 2, calcium activated chloride channel [Source:HGI

Geneset Overrepresentation

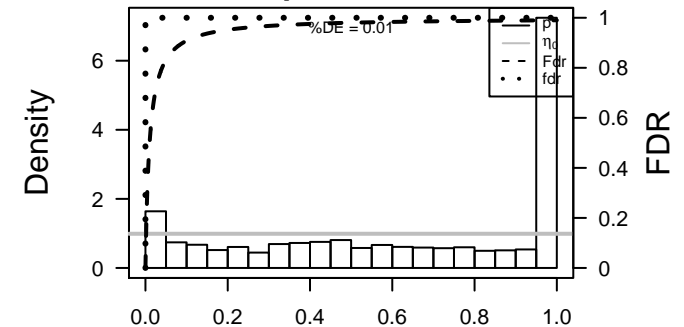
Rank	p-value	#in/all	Geneset
1	3e-28	149 / 1468	CC mitochondrion
2	8e-24	47 / 198	HM HALLMARK_OXIDATIVE_PHOSPHORYLATION
3	2e-23	485 / 9482	Colon TssA_Colon
4	2e-22	65 / 405	GSE# MOOTHA_HUMAN_MITODB_6_2002
5	8e-22	61 / 368	GSE# STEIN_ESRRA_TARGETS_UP
6	2e-20	62 / 401	CC mitochondrial inner membrane
7	1e-19	87 / 756	GSE# WEI_MYCN_TARGETS_WITH_E_BOX
8	3e-19	392 / 7203	Colon TssF_Colon
9	4e-19	458 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
10	4e-18	66 / 500	GSE# STEIN_ESRRA_TARGETS
11	6e-17	105 / 1126	GSE# BLALOCK_ALZHEIMERS_DISEASE_DN
12	7e-17	58 / 421	GSE# MOOTHA_MITOCHONDRIA
13	2e-15	54 / 398	GSE# MOOTHA_PGC
14	8e-15	367 / 6929	Lymp HOPP_Txn_elongation
15	2e-14	58 / 478	GSE# STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
16	3e-14	455 / 9330	Brain Overlap_fetal_midbrain_ReprPC
17	3e-14	414 / 8205	CC cytoplasm
18	5e-14	46 / 325	GSE# PENG_GLUTAMINE_DEPRIVATION_DN
19	5e-13	440 / 9027	Color Tx_Colon
20	6e-13	84 / 925	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
21	6e-13	386 / 7592	Lymp HOPP_Active_promoter
22	1e-12	106 / 1326	GSE# DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
23	1e-12	40 / 278	GSE# MANALO_HYPOXIA_DN
24	2e-12	19 / 63	Glio Stuehler_Proteins_up_in_STS
25	2e-12	127 / 1730	BP small molecule metabolic process
26	7e-12	59 / 562	GSE# CAIRO_HEPATOBLASTOMA_CLASSES_UP
27	1e-11	57 / 536	GSE# TIEN_INTESTINE_PROBIOTICS_24HR_UP
28	1e-11	41 / 312	GSE# WONG_EMBRYONIC_STEM_CELL_CORE
29	6e-11	281 / 5184	Lymp HOPP_Txn_transition
30	8e-11	32 / 213	GSE# WONG_MITOCHONDRIA_GENE_MODULE
31	1e-10	40 / 322	BP mitochondrion organization
32	2e-10	41 / 338	GSE# DAIRKEE_TERT_TARGETS_UP
33	2e-10	465 / 9988	CC organelle
34	2e-10	33 / 233	GSE# PENG_RAPAMYCIN_RESPONSE_DN
35	2e-10	486 / 10605	CC intracellular
36	3e-10	72 / 831	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
37	4e-10	14 / 42	Lymp CARO_OxPhos_in_DLBC_LUP
38	8e-10	71 / 834	GSE# LEE_BMP2_TARGETS_DN
39	9e-10	105 / 1460	GSE# PUJANA_BRCA1_PCC_NETWORK
40	9e-10	9 / 15	GSE# MOOTHA_TCA

Overview Map

Spot



p-values



K-Means Clusters

Spot Summary: B

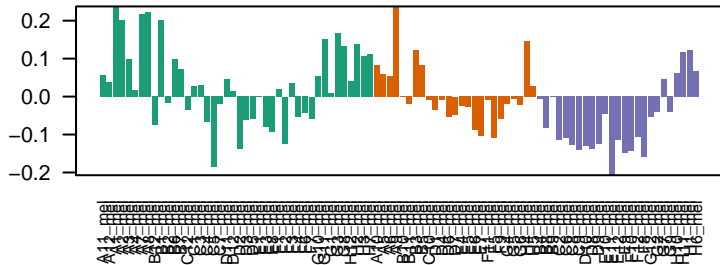
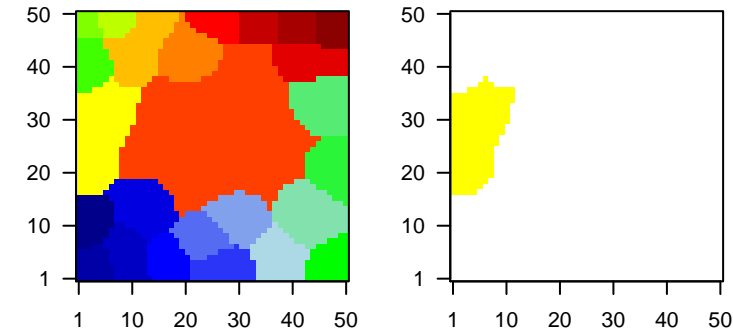
metagenes = 185
genes = 787

<r> metagenes = 0.65
<r> genes = 0.05
beta: r2= 1.03 / log p= -Inf

samples with spot = 9 (9.8 %)
MSC1 : 7 (16.7 %)
MSC2 : 2 (8 %)

Overview Map

Spot

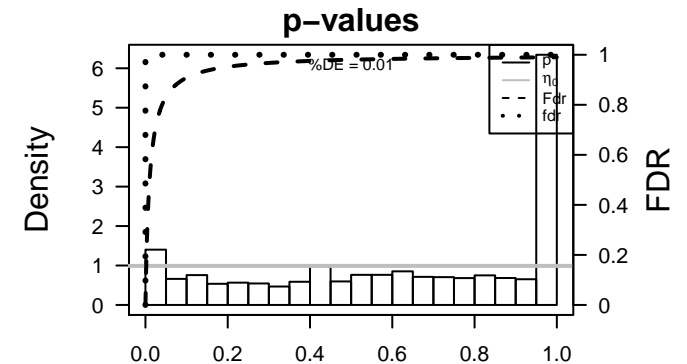


Spot Genelist

Rank	ID	max e	r	min e	Description
1	EFTUD1	2.12	-0.77	0.34	EFTUD1 elongation factor Tu GTP binding domain containing 1 [Source:HGNC Symbol;Acc:HGNC:11577]
2	RARRES1	2.09	-0.09	0.29	RARRES1 retinoic acid receptor responder (tazarotene induced) 1 [Source:HGNC Symbol;Acc:HGNC:11577]
3	SIPA1L3	2.07	-0.3	0.26	SIPA1L3 signal-induced proliferation-associated 1 like 3 [Source:HGNC Symbol;Acc:HGNC:11577]
4	PEX16	1.94	-0.14	0.3	PEX16 peroxisomal biogenesis factor 16 [Source:HGNC Symbol;Acc:HGNC:11577]
5	RAB40B	1.91	-0.31	0.29	RAB40B RAB40B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:11577]
6	RNF157	1.89	-0.33	0.26	RNF157 ring finger protein 157 [Source:HGNC Symbol;Acc:HGNC:11577]
7	OMG	1.88	-0.22	0.3	OMG oligodendrocyte myelin glycoprotein [Source:HGNC Symbol;Acc:HGNC:11577]
8	ZBTB48	1.88	-0.26	0.27	ZBTB48 zinc finger and BTB domain containing 48 [Source:HGNC Symbol;Acc:HGNC:11577]
9	SETD9	1.88	-0.63	0.37	SETD9 SET domain containing 9 [Source:HGNC Symbol;Acc:HGNC:11577]
10	MAP4K3	1.86	-0.43	0.25	MAP4K3 mitogen-activated protein kinase kinase kinase kinase 3 [Source:HGNC Symbol;Acc:HGNC:11577]
11	ARRDC1	1.83	-0.36	0.26	ARRDC1 arrestin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:11577]
12	NSMCE4A	1.83	-0.38	0.29	NSMCE4A non-SMC element 4 homolog A (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:11577]
13	PPP1R13L	1.82	-0.03	0.32	PPP1R13L protein phosphatase 1, regulatory subunit 13 like [Source:HGNC Symbol;Acc:HGNC:11577]
14	KCNU1	1.78	-0.02	0.4	KCNU1 potassium channel, subfamily U, member 1 [Source:HGNC Symbol;Acc:HGNC:11577]
15	TAZ	1.78	-0.27	0.28	TAZ tafazzin [Source:HGNC Symbol;Acc:HGNC:11577]
16	SERPINF1	1.78	-0.45	0.32	SERPINF1 serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pig) member 1 [Source:HGNC Symbol;Acc:HGNC:11577]
17	FAM131A	1.78	-0.18	0.29	FAM131A family with sequence similarity 131, member A [Source:HGNC Symbol;Acc:HGNC:11577]
18	CHN1	1.77	-0.26	0.26	CHN1 chimerin 1 [Source:HGNC Symbol;Acc:HGNC:11577]
19	DBND2	1.77	-0.24	0.33	DBND2 dysbindin (dystrobrein binding protein 1) domain containing 2 [Source:HGNC Symbol;Acc:HGNC:11577]
20	SLC25A15	1.76	-0.29	0.25	SLC25A15 solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 15 [Source:HGNC Symbol;Acc:HGNC:11577]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-26	631 / 9482	Colon TssA_Colon
2	4e-23	76 / 401	CC mitochondrial inner membrane
3	3e-21	35 / 94	BP respiratory electron transport chain
4	5e-21	37 / 107	GSE# KEGG_OXIDATIVE_PHOSPHORYLATION
5	5e-21	32 / 78	GSE# REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP_SYNTHESIS
6	8e-21	162 / 1468	CC mitochondrion
7	9e-21	41 / 135	BP cellular metabolic process
8	9e-21	594 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
9	2e-20	504 / 7203	Colon TssF_Colon
10	3e-20	49 / 198	HM HALLMARK_OXIDATIVE_PHOSPHORYLATION
11	5e-19	36 / 114	GSE# REACTOME_TCA_CYCLE_AND_RESPIRATORY_ELECTRON_TRANSPORT
12	9e-19	27 / 62	GSE# REACTOME_RESPIRATORY_ELECTRON_TRANSPORT
13	1e-18	31 / 85	GSE# MOOTHA_VOXPHOS
14	1e-18	588 / 9027	Color Tx_Colon
15	4e-18	114 / 925	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
16	6e-17	32 / 102	GSE# KEGG_PARKINSONS_DISEASE
17	1e-16	103 / 831	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
18	2e-16	67 / 421	GSE# MOOTHA_MITOCHONDRIA
19	6e-16	84 / 619	GSE# KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DENSITY_CORR_UP
20	2e-14	62 / 405	GSE# MOOTHA_HUMAN_MITODB_6_2002
21	3e-14	86 / 685	GSE# KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_UP
22	1e-13	530 / 8205	CC cytoplasm
23	2e-13	35 / 157	GSE# KEGG_HUNTINGTONS_DISEASE
24	3e-13	33 / 142	GSE# KEGG_ALZHEIMERS_DISEASE
25	3e-13	51 / 311	BP generation of precursor metabolites and energy
26	3e-13	41 / 213	GSE# WONG_MITOCHONDRIA_GENE_MODULE
27	6e-13	51 / 316	GSE# HSIAO_HOUSEKEEPING_GENES
28	2e-12	640 / 10605	CC intracellular
29	4e-12	64 / 478	GSE# STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
30	2e-11	576 / 9330	Brain Overlap_fetal_midbrain_ReprPC
31	2e-11	539 / 8580	Color TxWk_Colon
32	3e-11	59 / 440	GSE# SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_UP
33	3e-11	585 / 9528	Brain Overlap_fetal_midbrain_Quies
34	5e-10	354 / 5184	Lymp HOPP_Txn_transition
35	5e-10	326 / 4689	TF ICGC_Taf1_targets
36	7e-10	601 / 9988	CC organelle
37	1e-09	16 / 48	BP hydrogen ion transmembrane transport
38	2e-09	389 / 5880	Color TssD2_Colon
39	3e-09	146 / 1730	BP small molecule metabolic process
40	3e-09	30 / 167	GSE# YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_13



K-Means Clusters

Spot Summary: C

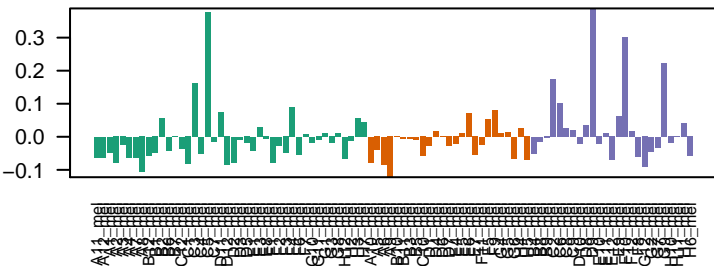
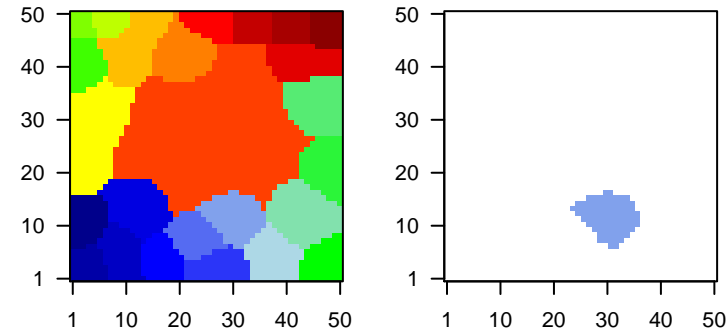
metagenes = 87
genes = 462

<r> metagenes = 0.7
<r> genes = 0.07
beta: r2= 0.55 / log p= -Inf

samples with spot = 6 (6.5 %)
MSC1 : 2 (4.8 %)
MSC3 : 4 (16 %)

Overview Map

Spot

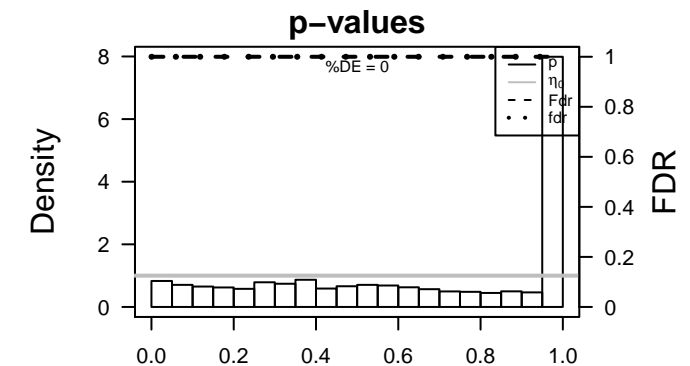


Spot Genelist

Rank	ID	max e	r	min e	Description
1	IGF2BP2	2.5	-0.05	0.75	IGF2BP2insulin-like growth factor 2 mRNA binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10000]
2	ACSF2	2.1	-0.18	0.48	ACSF2 acyl-CoA synthetase family member 2 [Source:HGNC Symbol;Acc:HGNC:10000]
3	CFAP44	2.06	-0.34	0.27	CFAP44 cilia and flagella associated protein 44 [Source:HGNC Symbol;Acc:HGNC:10000]
4	TMEM135	2.05	-0.37	0.32	TMEM135transmembrane protein 135 [Source:HGNC Symbol;Acc:HGNC:10000]
5	ASTE1	2.04	-0.51	0.41	ASTE1 asteroid homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:HGNC:10000]
6	CEBPZOS	2.03	-0.32	0.44	CEBPZOSCEBPZOS opposite strand [Source:HGNC Symbol;Acc:HGNC:10000]
7	GDA	1.99	-0.03	0.68	GDA guanine deaminase [Source:HGNC Symbol;Acc:HGNC:10000]
8	KLF4	1.99	-0.11	0.44	KLF4 Kruppel-like factor 4 (gut) [Source:HGNC Symbol;Acc:HGNC:10000]
9	SHISA2	1.94	-0.19	0.38	SHISA2 shisa family member 2 [Source:HGNC Symbol;Acc:HGNC:10000]
10	DOCK10	1.91	-0.27	0.36	DOCK10dedicator of cytokinesis 10 [Source:HGNC Symbol;Acc:HGNC:10000]
11	PLXDC1	1.9	-0.05	0.51	PLXDC1 plexin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10000]
12	ASB9	1.89	-0.09	0.51	ASB9 ankyrin repeat and SOCS box containing 9 [Source:HGNC Symbol;Acc:HGNC:10000]
13	PIK3R1	1.88	-0.62	0.26	PIK3R1 phosphoinositide-3-kinase, regulatory subunit 1 (alpha) [Source:HGNC Symbol;Acc:HGNC:10000]
14	OR52H1	1.86	-0.02	0.69	OR52H1 olfactory receptor, family 52, subfamily H, member 1 [Source:HGNC Symbol;Acc:HGNC:10000]
15	MEIS1	1.84	-0.61	0.39	MEIS1 Meis homeobox 1 [Source:HGNC Symbol;Acc:HGNC:10000]
16	SLC9B1	1.83	-0.14	0.37	SLC9B1 solute carrier family 9, subfamily B (NHA1, cation proton antiporter) [Source:HGNC Symbol;Acc:HGNC:10000]
17	ANKMY1	1.82	-0.19	0.47	ANKMY1 ankyrin repeat and MYND domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10000]
18	FGF13	1.8	-0.12	0.37	FGF13 fibroblast growth factor 13 [Source:HGNC Symbol;Acc:HGNC:10000]
19	LRIG2	1.79	-0.37	0.36	LRIG2 leucine-rich repeats and immunoglobulin-like domains 2 [Source:HGNC Symbol;Acc:HGNC:10000]
20	DZIP1L	1.79	-0.21	0.45	DZIP1L DAZ interacting zinc finger protein 1-like [Source:HGNC Symbol;Acc:HGNC:10000]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-05	28 / 372	GSE/ FOSTER_TOLERANT_MACROPHAGE_DN
2	1e-04	13 / 123	miRN hsa-miR-204
3	3e-04	3 / 5	GSE/ INAMURA_LUNG_CANCER_SCC_SUBTYPES_DN
4	3e-04	7 / 43	Colon Marisa_CRC-cluster-f
5	3e-04	12 / 119	miRN hsa-miR-380
6	4e-04	7 / 44	GSE/ DAWSON_METHYLATED_IN_LYMPHOMA_TCL1
7	5e-04	11 / 108	miRN hsa-miR-211
8	6e-04	5 / 23	GSE/ CHIBA_RESPONSE_TO_TSA_DN
9	8e-04	29 / 493	GSE/ MILL_PSEUDOPODIA_HAPTOTAXIS_UP
10	8e-04	11 / 113	Cancer PanCan_Driver_Gene_geneset_nanostring
11	1e-03	6 / 39	BP synapse assembly
12	1e-03	7 / 54	BP cellular response to heat
13	1e-03	3 / 8	GSE/ TCGA_GLIOMASTOMA_MUTATED
14	2e-03	4 / 17	MF TBP-class protein binding
15	2e-03	4 / 17	GSE/ BIOCARTE_PTEN_PATHWAY
16	2e-03	149 / 3897	Color Quies1_Colon
17	2e-03	5 / 30	GSE/ MATTIOLI_MULTIPLE_MYELOMA_WITH_14Q32_TRANSLOCATIONS
18	2e-03	3 / 9	GSE/ ST_STAT3_PATHWAY
19	2e-03	23 / 386	MF nucleotide binding
20	2e-03	347 / 10290	Color TssWk_Colon
21	2e-03	5 / 31	GSE/ PID_AR_NONGENOMIC_PATHWAY
22	3e-03	9 / 94	GSE/ PLASARI_TGFB1_SIGNALING_VIA_NFIC_1HR_DN
23	3e-03	18 / 278	GSE/ GABRIELY_MIR21_TARGETS
24	3e-03	7 / 61	GSE/ COATES_MACROPHAGE_M1_VS_M2_DN
25	3e-03	12 / 153	GSE/ DOANE_RESPONSE_TO_ANDROGEN_UP
26	3e-03	31 / 590	BP cell morphogenesis
27	3e-03	48 / 1033	MF nucleic acid binding
28	3e-03	7 / 63	GSE/ LINDVALL_IMMORTALIZED_BY_TERT_UP
29	3e-03	26 / 471	GSE/ MARTORIATI_MDM4_TARGETS_FETAL_LIVER_DN
30	3e-03	12 / 156	BP cell migration
31	4e-03	28 / 523	miRN hsa-miR-106a
32	4e-03	308 / 9020	Brain Overlap_fetal_midbrain_ReprPCWk
33	4e-03	102 / 2563	Lymph HOPP_Heterochrom
34	4e-03	6 / 49	GSE/ LEE_LIVER_CANCER_MYC_E2F1_UP
35	4e-03	3 / 11	MF nucleosome binding
36	4e-03	3 / 11	BP regulation of cell-cell adhesion
37	4e-03	3 / 11	BP regulation of focal adhesion assembly
38	4e-03	4 / 22	GSE/ BIOCARTE_ECM_PATHWAY
39	4e-03	4 / 22	GSE/ DING_LUNG_CANCER_MUTATED_SIGNIFICANTLY
40	4e-03	20 / 337	GSE/ SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_UP



K-Means Clusters

Spot Summary: D

metagenes = 22
genes = 310

<r> metagenes = 0.95
<r> genes = 0.23
beta: r2= 7.27 / log p= -Inf

samples with spot = 32 (34.8 %)
MSC1 : 32 (76.2 %)

Spot Genelist

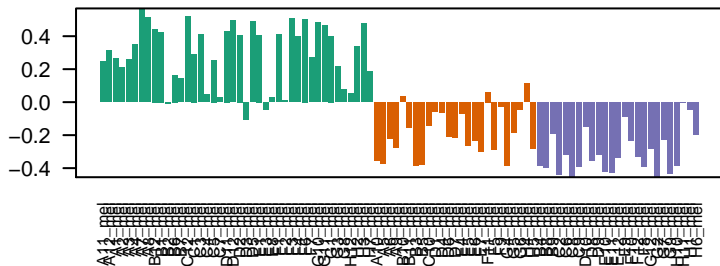
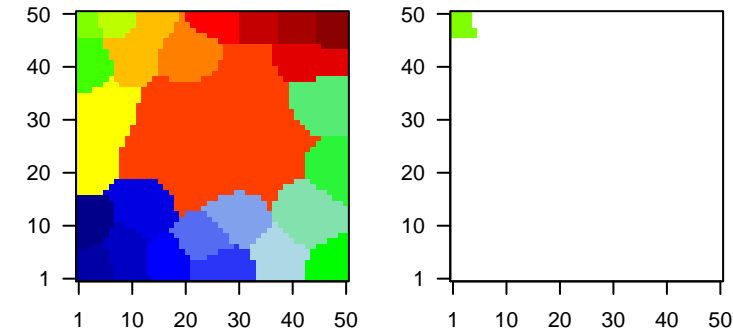
Rank	ID	max e	r	min e	Description
1	CEP97	2.41	-1.21	0.26	CEP97 centrosomal protein 97kDa [Source:HGNC Symbol;Acc:HGNC:10000]
2	SMCO4	2.1	-0.21	0.34	SMCO4 single-pass membrane protein with coiled-coil domains 4 [Source:HGNC Symbol;Acc:HGNC:10000]
3	C4orf33	1.97	-0.26	0.29	C4orf33 chromosome 4 open reading frame 33 [Source:HGNC Symbol;Acc:HGNC:10000]
4	RNASEH2B	1.84	-0.73	0.47	RNASEH2B ribonuclease H2, subunit B [Source:HGNC Symbol;Acc:HGNC:10000]
5	RAD51	1.81	-0.59	0.62	RAD51 RAD51 recombinase [Source:HGNC Symbol;Acc:HGNC:10000]
6	GINS4	1.81	-0.28	0.4	GINS4 GINS complex subunit 4 (Sld5 homolog) [Source:HGNC Symbol;Acc:HGNC:10000]
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:10000]
9	POLE	1.73	-0.5	0.57	POLE polymerase (DNA directed), epsilon, catalytic subunit [Source:HGNC Symbol;Acc:HGNC:10000]
10	ESCO2	1.68	-0.56	0.74	ESCO2 establishment of sister chromatid cohesion N-acetyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:10000]
11	NCAPH2	1.68	-0.47	0.42	NCAPH2 non-SMC condensin II complex, subunit H2 [Source:HGNC Symbol;Acc:HGNC:10000]
12	CDCA5	1.68	-0.6	0.79	CDCA5 cell division cycle associated 5 [Source:HGNC Symbol;Acc:HGNC:10000]
13	ORC1	1.67	-0.3	0.59	ORC1 origin recognition complex, subunit 1 [Source:HGNC Symbol;Acc:HGNC:10000]
14	ER11	1.67	-0.32	0.35	ER11 exoribonuclease 1 [Source:HGNC Symbol;Acc:HGNC:23994]
15	FBXO5	1.66	-0.48	0.68	FBXO5 F-box protein 5 [Source:HGNC Symbol;Acc:HGNC:13584]
16	TIFA	1.66	-0.19	0.52	TIFA TRAF-interacting protein with forkhead-associated domain [Source:HGNC Symbol;Acc:HGNC:10000]
17	DTL	1.66	-0.94	0.84	DTL denticleless E3 ubiquitin protein ligase homolog (Drosophila) [Source:HGNC Symbol;Acc:HGNC:10000]
18	POC1A	1.66	-0.34	0.45	POC1A POC1 centriolar protein A [Source:HGNC Symbol;Acc:HGNC:10000]
19	CCNE2	1.65	-0.54	0.71	CCNE2 cyclin E2 [Source:HGNC Symbol;Acc:HGNC:1590]
20	MTBP	1.64	-0.38	0.33	MTBP MDM2 binding protein [Source:HGNC Symbol;Acc:HGNC:74]

Geneset Overrepresentation

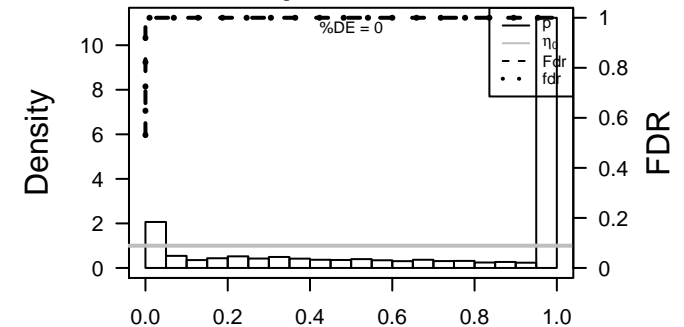
Rank	p-value	#in/all	Geneset
1	1e-99	171 / 1192	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
2	1e-99	114 / 305	GSE/ DUTERTRE_ESTRADIOL_RESPONSE_24HR_UP
3	1e-99	126 / 550	GSE/ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
4	3e-80	83 / 242	GSE/ KOBAYASHI_EGFR_SIGNALING_24HR_DN
5	4e-76	83 / 267	GSE/ ZHANG_TLX_TARGETS_60HR_DN
6	4e-70	112 / 700	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
7	5e-67	138 / 1251	GSE/ DODD_NASOPHARYNGEAL_CARINOMA_DN
8	2e-65	68 / 197	HM HALLMARK_E2F_TARGETS
9	1e-64	111 / 768	BP DNA metabolic process
10	4e-61	83 / 390	GSE/ PUJANA_BRCA2_PCC_NETWORK
11	4e-61	90 / 485	GSE/ CHICAS_RB1_TARGETS_SENESCENT
12	9e-60	124 / 1110	BP cell cycle
13	1e-56	75 / 335	GSE/ WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_DN
14	6e-55	86 / 505	GSE/ BERENJENO_TRANSFORMED_BY_RHOA_UP
15	1e-53	104 / 834	GSE/ LEE_BMP2_TARGETS_DN
16	3e-53	78 / 412	BP mitotic cell cycle
17	1e-52	71 / 327	GSE/ BLUM_RESPONSE_TO_SALIRASIB_DN
18	3e-52	41 / 68	GSE/ VERNELL_RETINOBLASTOMA_PATHWAY_UP
19	2e-50	51 / 139	BP DNA replication
20	2e-48	104 / 944	GSE/ NUYTEN_EZH2_TARGETS_DN
21	4e-47	71 / 388	GSE/ REACTOME_CELL_CYCLE
22	8e-47	55 / 198	GSE/ FUJII_YBX1_TARGETS_DN
23	1e-46	64 / 301	GSE/ REACTOME_CELL_CYCLE_MITOTIC
24	1e-45	90 / 724	GSE/ PUJANA_CHEK2_PCC_NETWORK
25	2e-44	77 / 517	GSE/ FEVR_CTNNB1_TARGETS_DN
26	7e-44	121 / 1460	GSE/ PUJANA_BRCA1_PCC_NETWORK
27	1e-43	39 / 84	GSE/ ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_6HR
28	8e-43	39 / 87	GSE/ ZHANG_TLX_TARGETS_UP
29	1e-42	46 / 142	Glio WILLSCHER_GBM_Verhaak-CL_up (C
30	2e-42	70 / 436	GSE/ SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
31	2e-40	57 / 278	GSE/ MANALO_HYPOXIA_DN
32	6e-40	46 / 160	GSE/ PUJANA_XPRSS_INT_NETWORK
33	8e-40	78 / 616	GSE/ BENPORATH_CYCLING_GENES
34	9e-40	47 / 171	GSE/ SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_UP
35	3e-39	77 / 609	GSE/ RODRIGUES_THYROID_CARINOMA_POORLY_DIFFERENTIATED_UP
36	7e-39	40 / 113	GSE/ PUJANA_BRCA_CENTERED_NETWORK
37	9e-38	35 / 81	GSE/ GRAHAM_NORMAL QUIESCENT_VS_NORMAL_DIVIDING_DN
38	3e-37	46 / 181	GSE/ REACTOME_DNA_REPLICATION
39	1e-36	45 / 175	GSE/ PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_UP
40	1e-36	42 / 145	GSE/ CHANG_CYCLING_GENES

Overview Map

Spot



p-values



K-Means Clusters

Spot Summary: E

metagenes = 115
genes = 566

<r> metagenes = 0.78
<r> genes = 0.05
beta: r2= 1.27 / log p= -Inf

samples with spot = 9 (9.8 %)
MSC1 : 9 (21.4 %)

Spot Genelist

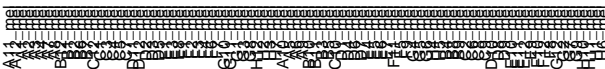
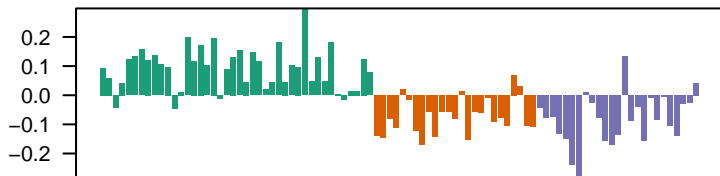
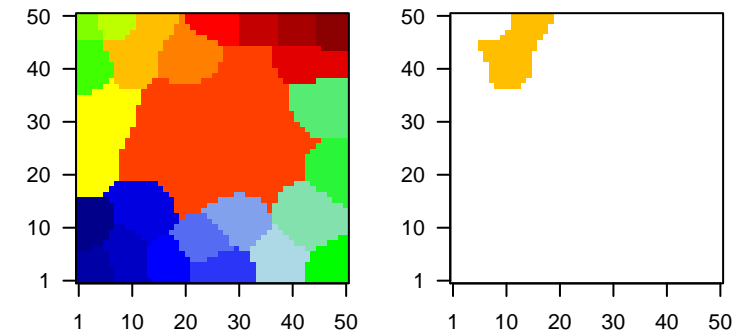
Rank	ID	max e	r	min e	Description
					Symbol
1	JMJD7	2.04	-0.18	0.24	JMJD7 jumonji domain containing 7 [Source:HGNC Symbol;Acc:HGNC:10811]
2	TMEM71	2.04	-0.12	0.25	TMEM71 transmembrane protein 71 [Source:HGNC Symbol;Acc:HGNC:10812]
3	PHYHIPL	1.94	-0.16	0.35	PHYHIPLphytanoyl-CoA 2-hydroxylase interacting protein-like [Source:HGNC Symbol;Acc:HGNC:10813]
4	ISG20	1.9	-0.29	0.24	ISG20 interferon stimulated exonuclease gene 20kDa [Source:HGNC Symbol;Acc:HGNC:10814]
5	EME1	1.85	-0.41	0.26	EME1 essential meiotic structure-specific endonuclease 1 [Source:HGNC Symbol;Acc:HGNC:10815]
6	HSD17B6	1.83	-0.06	0.33	HSD17B6hydroxysteroid (17-beta) dehydrogenase 6 [Source:HGNC Symbol;Acc:HGNC:10816]
7	CTHF18	1.83	-0.47	0.32	CTHF18 CTF18, chromosome transmission fidelity factor 18 homolog 1 [Source:HGNC Symbol;Acc:HGNC:10817]
8	DHTKD1	1.81	-0.39	0.39	DHTKD1 dehydrogenase E1 and transketolase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10818]
9	RHBDD1	1.8	-0.31	0.24	RHBDD1rhomoid domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10819]
10	ASH2L	1.79	-0.43	0.38	ASH2L ash2 (absent, small, or homeotic)-like (Drosophila) [Source:HGNC Symbol;Acc:HGNC:10820]
11	DDHD2	1.79	-0.25	0.25	DDHD2 DDHD domain containing 2 [Source:HGNC Symbol;Acc:HGNC:10821]
12	INPP1	1.75	-0.34	0.29	INPP1 inositol polyphosphate-1-phosphatase [Source:HGNC Symbol;Acc:HGNC:10822]
13	MYD88	1.72	-0.18	0.22	MYD88 myeloid differentiation primary response 88 [Source:HGNC Symbol;Acc:HGNC:10823]
14	CEP44	1.72	-0.41	0.36	CEP44 centrosomal protein 44kDa [Source:HGNC Symbol;Acc:HGNC:10824]
15	C19orf47	1.71	-0.25	0.36	C19orf47 chromosome 19 open reading frame 47 [Source:HGNC Symbol;Acc:HGNC:10825]
16	ZNF101	1.71	-0.32	0.24	ZNF101 zinc finger protein 101 [Source:HGNC Symbol;Acc:HGNC:10826]
17	C15orf41	1.7	-0.3	0.25	C15orf41 chromosome 15 open reading frame 41 [Source:HGNC Symbol;Acc:HGNC:10827]
18	STRA6	1.68	-0.03	0.39	STRA6 stimulated by retinoic acid 6 [Source:HGNC Symbol;Acc:HGNC:10828]
19	S100B	1.66	-0.6	0.29	S100B S100 calcium binding protein B [Source:HGNC Symbol;Acc:HGNC:10829]
20	ITGB4	1.66	-0.12	0.31	ITGB4 integrin, beta 4 [Source:HGNC Symbol;Acc:HGNC:6158]

Geneset Overrepresentation

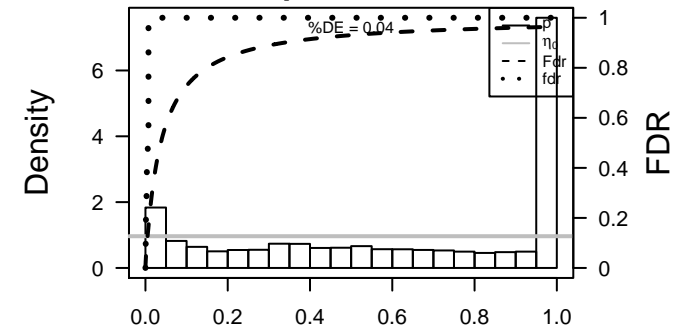
Rank	p-value	#in/all	Geneset
1	2e-27	469 / 9330	Brain Overlap_fetal_midbrain_ReprPC
2	4e-27	473 / 9482	Colon TssA_Colon
3	1e-26	386 / 6929	Lymph HOPP_Txn_elongation
4	4e-22	132 / 1460	GSE/ PUJANA_BRCA1_PCC_NETWORK
5	1e-20	323 / 5696	CC nucleus
6	8e-20	300 / 5184	Lymph HOPP_Txn_transition
7	3e-19	425 / 8580	Colon TxWk_Colon
8	5e-19	439 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
9	8e-19	439 / 9027	Colon Tx_Colon
10	1e-18	389 / 7592	Lymph HOPP_Active_promoter
11	2e-18	109 / 1192	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
12	5e-18	180 / 2577	CC nucleoplasm
13	2e-16	483 / 10605	CC intracellular
14	2e-16	411 / 8415	Colon Quies3_Colon
15	4e-16	463 / 9988	CC organelle
16	4e-16	76 / 724	GSE/ PUJANA_CHEK2_PCC_NETWORK
17	4e-16	31 / 136	GSE/ REACTOME_PROCESSING_OF_CAPPED_INTRON_CONTAINING_PRE
18	7e-16	318 / 5940	Brain Overlap_fetal_midbrain_HetRpts
19	2e-15	32 / 154	GSE/ REACTOME_MRNA_PROCESSING
20	4e-15	34 / 177	BP mRNA splicing, via spliceosome
21	1e-14	51 / 393	BP mRNA processing
22	6e-13	86 / 1007	MF poly(A) RNA binding
23	8e-13	26 / 124	GSE/ KEGG_SPLICEOSOME
24	1e-12	24 / 107	GSE/ REACTOME_MRNA_SPLICING
25	2e-12	98 / 1251	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_DN
26	5e-12	101 / 1326	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
27	6e-12	224 / 3980	BP cellular nitrogen compound metabolic process
28	1e-11	102 / 1365	MF RNA binding
29	2e-11	21 / 92	CC spliceosomal complex
30	5e-11	125 / 1858	GSE/ PILON_KLF1_TARGETS_DN
31	2e-10	32 / 229	BP RNA splicing
32	2e-10	62 / 687	BP gene expression
33	3e-10	65 / 747	CC nucleolus
34	4e-10	62 / 700	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
35	5e-10	28 / 188	HM HALLMARK_MYC_TARGETS_V1
36	8e-10	453 / 10290	Colon TssWk_Colon
37	1e-09	42 / 390	GSE/ PUJANA_BRCA2_PCC_NETWORK
38	2e-09	499 / 11774	CC cell
39	3e-09	38 / 344	miRN hsa-miR-548d-5p
40	5e-09	17 / 79	CC catalytic step 2 spliceosome

Overview Map

Spot



p-values



K-Means Clusters

Spot Summary: F

metagenes = 30
genes = 332

<r> metagenes = 0.96
<r> genes = 0.25
beta: r2= 5.95 / log p= -Inf

samples with spot = 25 (27.2 %)
MSC1 : 24 (57.1 %)
MSC3 : 1 (4 %)

Spot Genelist

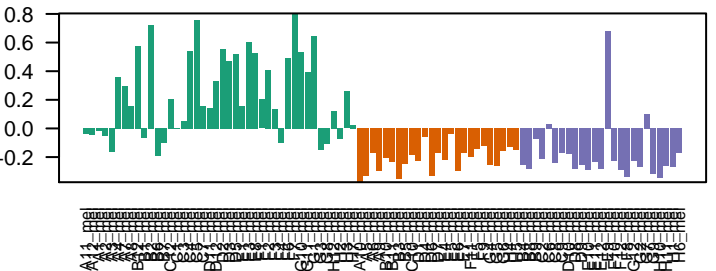
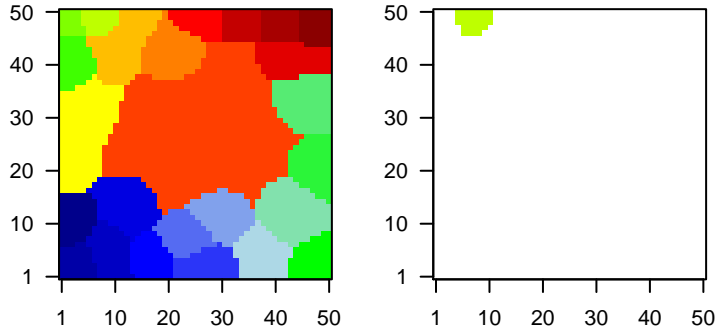
Rank	ID	max e	r	min e	Description
					Symbol
1	HTN1	2.69	-0.09	0.35	HTN1 histatin 1 [Source:HGNC Symbol;Acc:HGNC:5283]
2	UBE2C	2.22	-1.05	0.87	UBE2C ubiquitin-conjugating enzyme E2C [Source:HGNC Symbol;Acc:HGNC:5283]
3	NUF2	2.2	-0.57	0.84	NUF2 NUF2, NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:5283]
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	AURKB	2.03	-0.61	0.79	AURKB aurora kinase B [Source:HGNC Symbol;Acc:HGNC:11390]
9	CKAP2L	2.01	-0.57	0.84	CKAP2L cytoskeleton associated protein 2-like [Source:HGNC Symbol;Acc:HGNC:11390]
10	CDC20	2	-0.67	0.71	CDC20 cell division cycle 20 [Source:HGNC Symbol;Acc:HGNC:1722]
11	KIF20A	1.98	-0.39	0.74	KIF20A kinesin family member 20A [Source:HGNC Symbol;Acc:HGNC:11390]
12	NDC80	1.96	-0.62	0.87	NDC80 NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:11390]
13	DLGAP5	1.93	-0.47	0.78	DLGAP5 discs, large (Drosophila) homolog-associated protein 5 [Source:HGNC Symbol;Acc:HGNC:11390]
14	PRR11	1.93	-0.5	0.75	PRR11 proline rich 11 [Source:HGNC Symbol;Acc:HGNC:25619]
15	RRM2	1.92	-0.76	0.86	RRM2 ribonucleotide reductase M2 [Source:HGNC Symbol;Acc:HGNC:11390]
16	ITGA6	1.91	-0.26	0.33	ITGA6 integrin, alpha 6 [Source:HGNC Symbol;Acc:HGNC:6142]
17	SGOL1	1.91	-0.72	0.75	SGOL1 shugoshin-like 1 (S. pombe) [Source:HGNC Symbol;Acc:HGNC:11390]
18	HIST1H4E	1.9	-0.46	0.45	HIST1H4E histone cluster 1, H4e [Source:HGNC Symbol;Acc:HGNC:473]
19	FCGR2A	1.9	-0.23	0.29	FCGR2A Fc fragment of IgG, low affinity IIa, receptor (CD32) [Source:HGNC Symbol;Acc:HGNC:11390]
20	CDC43	1.88	-0.49	0.83	CDC43 cell division cycle associated 3 [Source:HGNC Symbol;Acc:HGNC:11390]

Geneset Overrepresentation

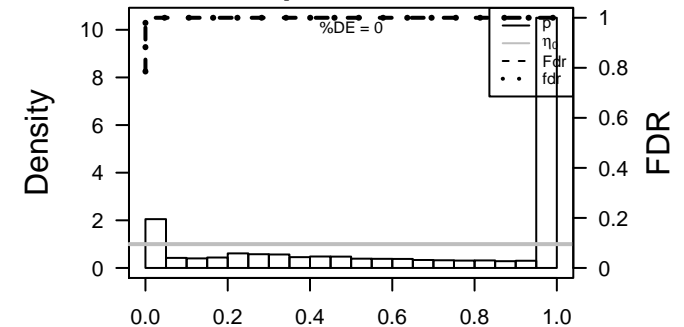
Rank	p-value	#in/all	Geneset
1	1e-99	136 / 550	GSE# GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
2	2e-98	81 / 142	Glio WILLSCHEER_GBM_Verhaak-CL_up (C)
3	3e-83	10 / 16	Cancr SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
4	4e-83	121 / 616	GSE# BENFORATH_CYCLING_GENES
5	6e-83	72 / 139	GSE# ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
6	7e-81	125 / 700	GSE# MARSON_BOUND_BY_E2F4_UNSTIMULATED
7	3e-75	87 / 291	GSE# HORIUCHI_WTAP_TARGETS_DN
8	5e-75	89 / 312	BP mitotic nuclear division
9	6e-75	98 / 409	BP cell division
10	3e-73	99 / 436	GSE# SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
11	6e-70	139 / 1110	BP cell cycle
12	7e-69	129 / 944	GSE# NUYTEN_EZH2_TARGETS_DN
13	6e-67	65 / 155	GSE# HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP
14	8e-67	140 / 1192	GSE# KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
15	4e-66	63 / 145	GSE# CHANG_CYCLING_GENES
16	8e-66	75 / 242	GSE# KOBAYASHI_EGFR_SIGNALING_24HR_DN
17	4e-63	139 / 1251	GSE# DODD_NASOPHARYNGEAL_CARINOMA_DN
18	1e-62	79 / 305	GSE# DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
19	6e-60	66 / 196	HM HALLMARK_G2M_CHECKPOINT
20	1e-58	85 / 412	BP mitotic cell cycle
21	3e-58	65 / 201	GSE# WHITFIELD_CELL_CYCLE_G2_M
22	9e-58	61 / 170	GSE# WHITFIELD_CELL_CYCLE_G2
23	5e-56	81 / 390	GSE# PUJANA_BRCA2_PCC_NETWORK
24	3e-55	70 / 270	GSE# BASAKI_YBX1_TARGETS_UP
25	5e-55	53 / 124	GSE# ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR
26	3e-53	48 / 99	GSE# LEE_EARLY_T_LYMPHOCYTE_UP
27	8e-53	57 / 165	GSE# CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP
28	2e-52	47 / 96	GSE# CROONQUIST_IL6_DEPRIVATION_DN
29	2e-50	76 / 388	GSE# REACTOME_CELL_CYCLE
30	2e-50	48 / 110	GSE# WHITEFORD_PEDIATRIC_CANCER_MARKERS
31	4e-49	58 / 197	HM HALLMARK_E2F_TARGETS
32	5e-49	54 / 162	GSE# GRAHAM_CML_DIVIDING_VS_NORMAL QUIESCENT_UP
33	6e-48	53 / 160	BP chromosome segregation
34	7e-48	59 / 216	GSE# MARKEY_RB1_ACUTE_LOF_DN
35	3e-47	42 / 84	GSE# MORI_LARGE_PRE_BII_LYMPHOCYTE_UP
36	5e-47	47 / 118	GSE# O'DONNELL_TFRG_TARGETS_DN
37	6e-47	66 / 301	GSE# REACTOME_CELL_CYCLE_MITOTIC
38	6e-47	80 / 489	Cancr Lembecke_Normal vs Adenoma
39	3e-45	100 / 862	GSE# JOHNSTONE_PARVB_TARGETS_3_DN
40	5e-45	70 / 373	GSE# VECCHI_GASTRIC_CANCER_EARLY_UP

Overview Map

Spot



p-values



K-Means Clusters

Spot Summary: G

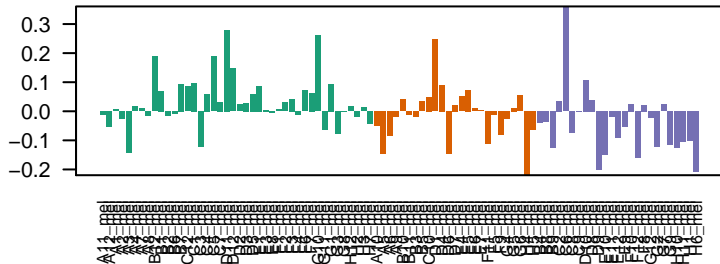
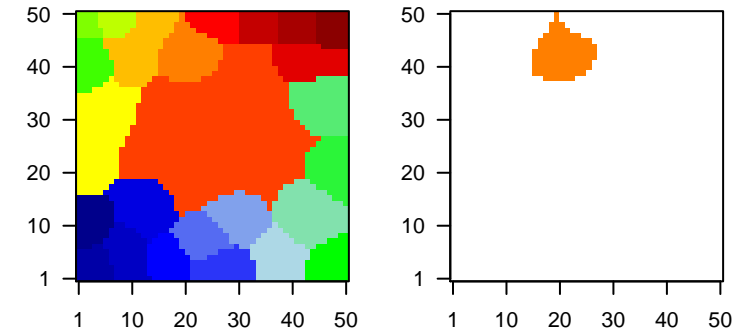
metagenes = 99
genes = 321

<r> metagenes = 0.81
<r> genes = 0.06
beta: r2= 0.61 / log p= -Inf

samples with spot = 7 (7.6 %)
MSC1 : 5 (11.9 %)
MSC2 : 1 (4 %)
MSC3 : 1 (4 %)

Overview Map

Spot



Spot Genelist

Rank	ID	max e	r	min e	Description
1	SLC25A21	1.95	-0.08	0.49	SLC25A21 solute carrier family 25 (mitochondrial oxoaliphate carrier), me
2	KLHL32	1.89	-0.06	0.37	KLHL32 kelch-like family member 32 [Source:HGNC Symbol;Acc:HGNC:21120]
3	ERI2	1.89	-0.37	0.35	ERI2 ERI1 exoribonuclease family member 2 [Source:HGNC Symbol;Acc:HGNC:21120]
4	SHQ1	1.79	-0.67	0.29	SHQ1 SHQ1, H/ACA ribonucleoprotein assembly factor [Source:HGNC Symbol;Acc:HGNC:21120]
5	MPP3	1.79	-0.19	0.22	MPP3 membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) [Source:HGNC Symbol;Acc:HGNC:21120]
6	CRISPLD1	1.78	-0.25	0.28	CRISPLD1 cysteine-rich secretory protein LCCL domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21120]
7	USP41	1.78	-0.26	0.29	USP41 ubiquitin specific peptidase 41 [Source:HGNC Symbol;Acc:HGNC:21120]
8	RFX2	1.78	-0.41	0.34	RFX2 regulatory factor X, 2 (influences HLA class II expression) [Source:HGNC Symbol;Acc:HGNC:21120]
9	AURKC	1.77	-0.17	0.31	AURKC aurora kinase C [Source:HGNC Symbol;Acc:HGNC:11391]
10	FAXC	1.75	-0.16	0.43	FAXC failed axon connections homolog (Drosophila) [Source:HGNC Symbol;Acc:HGNC:21120]
11	DISP2	1.71	-0.05	0.31	DISP2 dispatched homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:HGNC:21120]
12	GPRC5D	1.69	-0.02	0.4	GPRC5D G-protein-coupled receptor, class C, group 5, member D [Source:HGNC Symbol;Acc:HGNC:21120]
13	AP3M2	1.69	-0.65	0.34	AP3M2 adaptor-related protein complex 3, mu 2 subunit [Source:HGNC Symbol;Acc:HGNC:21120]
14	LPAR2	1.66	-0.05	0.33	LPAR2 lysophosphatidic acid receptor 2 [Source:HGNC Symbol;Acc:HGNC:21120]
15	ZNF438	1.65	-0.08	0.38	ZNF438 zinc finger protein 438 [Source:HGNC Symbol;Acc:HGNC:21120]
16	UCN2	1.65	-0.02	0.37	UCN2 urocortin 2 [Source:HGNC Symbol;Acc:HGNC:18414]
17	DISP1	1.64	-0.17	0.29	DISP1 dispatched homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:HGNC:21120]
18	ZNF823	1.63	-0.26	0.26	ZNF823 zinc finger protein 823 [Source:HGNC Symbol;Acc:HGNC:30120]
19	TXNRD3	1.63	-0.07	0.27	TXNRD3 thioredoxin reductase 3 [Source:HGNC Symbol;Acc:HGNC:21120]
20	LRR6	1.62	-0.12	0.25	LRR6 leucine rich repeat containing 6 [Source:HGNC Symbol;Acc:HGNC:21120]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-07	243 / 9330	Brain Overlap_fetal_midbrain_ReprPC
2	2e-06	35 / 687	Chr Chr 6
3	3e-05	186 / 6929	Lymph HOPP_Txn_elongation
4	3e-05	200 / 7592	Lymph HOPP_Active_promoter
5	3e-05	164 / 5940	Brain Overlap_fetal_midbrain_HetRpts
6	5e-05	238 / 9482	Colon TssA_Colon
7	8e-05	145 / 5184	Lymph HOPP_Txn_transition
8	7e-04	17 / 322	BP mitochondrion organization
9	7e-04	12 / 184	GSE/ REACTOME_HIV_INFECTION
10	7e-04	223 / 9027	Colon Tx_Colon
11	9e-04	222 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
12	9e-04	213 / 8580	Colon TxWk_Colon
13	1e-03	29 / 724	GSE/ PUJANA_CHEK2_PCC_NETWORK
14	1e-03	32 / 840	GSE/ GEORGES_TARGETS_OF_MIR192_AND_MIR215
15	1e-03	247 / 10290	Colon TssWk_Colon
16	1e-03	3 / 11	BP motile cilium assembly
17	2e-03	11 / 177	GSE/ KRIEG_KDM3A_TARGETS_NOT_HYPOXIA
18	2e-03	5 / 41	GSE/ KEGG_PROTEASOME
19	2e-03	4 / 25	MF ATP-dependent helicase activity
20	2e-03	3 / 12	CC transcription export complex
21	2e-03	37 / 1050	Brain Fetal_EnHP
22	3e-03	7 / 87	miRN hsa-miR-595
23	3e-03	4 / 28	BP vesicle organization
24	3e-03	3 / 14	MF phospholipase A2 activity
25	3e-03	219 / 9020	Brain Overlap_fetal_midbrain_ReprPCWk
26	3e-03	4 / 29	BP sphingolipid biosynthetic process
27	3e-03	5 / 47	GSE/ REACTOME_VIF_MEDIATED_DEGRADATION_OF_APOBEC3G
28	3e-03	17 / 376	GSE/ OSMAN_BLADDER_CANCER_UP
29	4e-03	3 / 15	BP Golgi to plasma membrane transport
30	4e-03	4 / 30	GSE/ YANG_BREAST_CANCER_ESR1_LASER_UP
31	4e-03	20 / 478	GSE/ STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
32	4e-03	24 / 619	GSE/ KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DENSITY_CORR_UP
33	4e-03	2 / 5	miRN hsa-miR-1268
34	5e-03	12 / 233	GSE/ PENG_RAPAMYCIN_RESPONSE_DN
35	5e-03	18 / 422	BP viral process
36	5e-03	146 / 5693	Lymph HOPP_Weak_enhancer
37	5e-03	35 / 1033	MF nucleic acid binding
38	6e-03	19 / 462	Chr Chr 14
39	6e-03	11 / 209	GSE/ BROWNE_HCMV_INFECTION_16HR_UP
40	6e-03	10 / 181	GSE/ PENG_LEUCINE_DEPRIVATION_DN

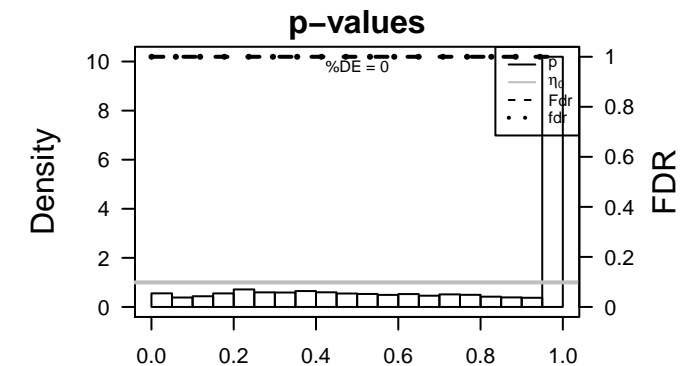


Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Brain' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'mitochondrial organization' and 'Golgi to plasma membrane transport'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Brain' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'mitochondrial organization' and 'Golgi to plasma membrane transport'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Brain' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'mitochondrial organization' and 'Golgi to plasma membrane transport'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Cancer' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'L1 PROSTATE CANCER UP' and 'pancan_MAPK_geneset_nanostring'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Cancer' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'organelle export complex' and 'nucleoplasm'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Cancer' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'organelle export complex' and 'nucleoplasm'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Colon Cancer' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'L1 Colon' and 'L1v1k_Colon'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Colon Cancer' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'ECHE1N1A_meth_up' and 'ECHE1N1A_EBM_up'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Colon Cancer' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'PARK2_STS_vs_LTS' and 'WDR77_Park2 subtype'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'DNA' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'HIV INFECTION' and 'G1/S CHECKPOINTS NETWORK'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'DNA' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'HALLMARK_DMPD_TARGETS_V1_HYPERMETHYLATION' and 'HALLMARK_UNFOLDED PROTEIN RESPONSE'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'DNA' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'DOMEAUX_fasting enriched genes' and 'DOMEAUX_smoking enriched genes'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Lymphoid' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'elongation' and 'HOP Active promoter'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Lymphoid' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'dependent helicase activity' and 'phospholipase A2 activity'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Lymphoid' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'hsa-miR-1268' and 'hsa-miR-523'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Pathway' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'Cell signature up' and 'Testis'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Pathway' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'KIM_MYC targets' and 'EBEN31RET1_high expression TF'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Pathway' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'Testis' and 'Whole blood'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Tissue' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'Cell signature up' and 'Testis'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Tissue' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'KIM_MYC targets' and 'EBEN31RET1_high expression TF'.

Table with 3 columns: Rank, p-value, #in/all. Contains 100 rows of data for the 'Tissue' category.

Table with 3 columns: Geneset, #in/all, p-value. Lists various biological processes like 'Testis' and 'Whole blood'.

K-Means Clusters

Spot Summary: H

metagenes = 732
genes = 2434

<r> metagenes = 0.04

beta: r2= 0.04 / log p= -1.18

samples with spot = 0 (0 %)

Spot Genelist

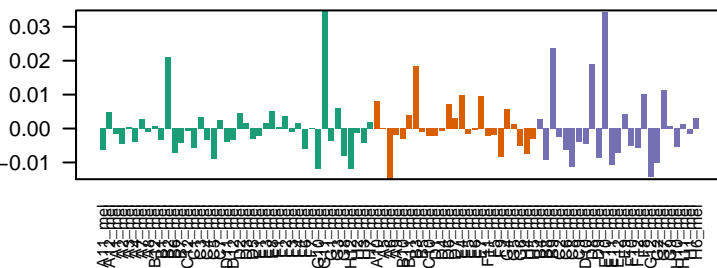
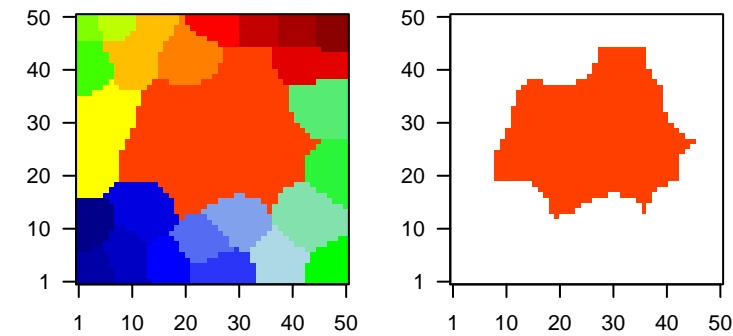
Rank	ID	max e	r	min e	Description
					Symbol
1	TTR	2.58	-0.06	0.41	TTR tranthyretin [Source:HGNC Symbol;Acc:HGNC:12405]
2	OPHN1	2.4	-0.43	0.41	OPHN1 oligophrenin 1 [Source:HGNC Symbol;Acc:HGNC:8148]
3	CACNA2D1	2.14	-0.28	0.44	CACNA2D1 calcium channel, voltage-dependent, alpha 2/delta subunit 1
4	MGP	2.08	-0.05	0.39	MGP matrix Gla protein [Source:HGNC Symbol;Acc:HGNC:7060]
5	RDH12	2.07	-0.08	0.56	RDH12 retinol dehydrogenase 12 (all-trans-9-cis/11-cis) [Source:HGNC Symbol;Acc:HGNC:12405]
6	RORA	2.04	-0.07	0.7	RORA RAR-related orphan receptor A [Source:HGNC Symbol;Acc:HGNC:12405]
7	CADPS	2.03	-0.06	0.23	CADPS Ca++-dependent secretion activator [Source:HGNC Symbol;Acc:HGNC:12405]
8	FBLN5	2.02	-0.06	0.46	FBLN5 fibulin 5 [Source:HGNC Symbol;Acc:HGNC:3602]
9	LRR1Q1	1.99	-0.05	0.56	LRR1Q1 leucine-rich repeats and IQ motif containing 1 [Source:HGNC Symbol;Acc:HGNC:12405]
10	UBB	1.97	-0.09	0.41	UBB ubiquitin B [Source:HGNC Symbol;Acc:HGNC:12463]
11	RIBC1	1.95	-0.05	0.53	RIBC1 RIB43A domain with coiled-coils 1 [Source:HGNC Symbol;Acc:HGNC:12405]
12	ZFR2	1.92	-0.07	0.47	ZFR2 zinc finger RNA binding protein 2 [Source:HGNC Symbol;Acc:HGNC:12405]
13	TGFB3	1.9	-0.05	0.32	TGFB3 transforming growth factor, beta 3 [Source:HGNC Symbol;Acc:HGNC:12405]
14	S100A6	1.89	-0.08	0.64	S100A6 S100 calcium binding protein A6 [Source:HGNC Symbol;Acc:HGNC:12405]
15	ZNF583	1.87	-0.02	0.65	ZNF583 zinc finger protein 583 [Source:HGNC Symbol;Acc:HGNC:26105]
16	TRPV2	1.85	-0.03	0.21	TRPV2 transient receptor potential cation channel, subfamily V, member 2
17	ZCCHC18	1.85	-0.02	0.6	ZCCHC18 zinc finger, CCHC domain containing 18 [Source:HGNC Symbol;Acc:HGNC:12405]
18	IKZF4	1.85	-0.22	0.34	IKZF4 IKAROS family zinc finger 4 (Eos) [Source:HGNC Symbol;Acc:HGNC:12405]
19	KMO	1.85	-0.03	0.45	KMO kynurenine 3-monooxygenase (kynurenine 3-hydroxylase) [Source:HGNC Symbol;Acc:HGNC:12405]
20	PLAC1	1.84	-0.03	0.44	PLAC1 placenta-specific 1 [Source:HGNC Symbol;Acc:HGNC:9044]

Geneset Overrepresentation

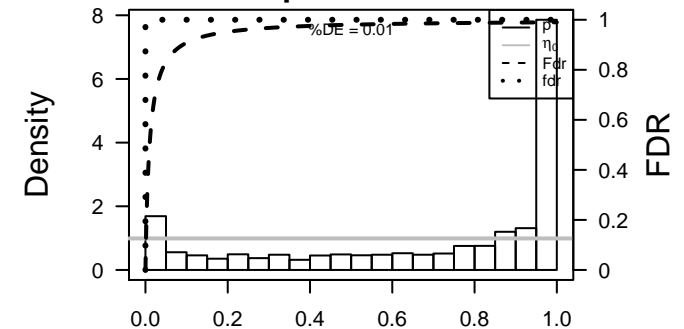
Rank	p-value	#in/all	Geneset
1	1e-99	716 / 2142	Colon ReprPC_Colon
2	3e-86	682 / 2159	Colon TssP_Colon
3	8e-85	620 / 1889	Colon ReprPCWk_Colon
4	6e-83	926 / 3396	Lymph HOPP_Repressed
5	7e-76	471 / 1317	Colon EnhP_Colon
6	2e-60	415 / 1207	Brain Overlap_fetal_midbrain_TssF
7	8e-54	319 / 862	Brain Overlap_fetal_midbrain_TxTrans
8	4e-53	273 / 686	Brain Overlap_fetal_midbrain_TssA
9	8e-40	279 / 812	Brain Mid_Frontal_Lobe_TssP
10	5e-39	352 / 1139	TF HEBENSTREIT_low expression TF
11	3e-35	142 / 312	GSE/ MIKKELSEN_MEF_HCP_WITH_H3K27ME3
12	1e-33	244 / 720	GSE/ BENPORATH_ES_WITH_H3K27ME3
13	3e-33	105 / 199	GSE/ MIKKELSEN_NPC_HCP_WITH_H3K27ME3
14	4e-33	700 / 2972	Brain Mid_Frontal_Lobe_ReprPC
15	3e-32	548 / 2188	Lymph HOPP_Poised_promoter
16	5e-32	547 / 2185	Brain Fetal_TssA
17	2e-28	172 / 468	Brain Mid_Frontal_Lobe_TssF
18	6e-26	693 / 3088	CC plasma membrane
19	2e-25	162 / 452	Color Lembecke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_DN
20	2e-25	113 / 264	GSE/ MIKKELSEN_MCV6_HCP_WITH_H3K27ME3
21	2e-24	146 / 396	GSE/ BENPORATH_PRC2_TARGETS
22	1e-23	97 / 217	GSE/ MEISSNER_NPC_HCP_WITH_H3K4ME2_AND_H3K27ME3
23	5e-23	96 / 217	MF G-protein coupled receptor activity
24	8e-23	208 / 674	GSE/ BENPORATH_SUZ12_TARGETS
25	3e-22	458 / 1907	Brain Fetal_TxTrans
26	5e-22	217 / 724	GSE/ BENPORATH_EED_TARGETS
27	4e-21	139 / 395	GSE/ MARTENS_TRETINOIN_RESPONSE_UP
28	4e-21	260 / 936	GSE/ ZWANG_TRANSIENTLY_UP_BY_2ND_EGF_PULSE_ONLY
29	3e-20	137 / 394	Color Lembecke_TCGA-expr_kmeans_L_CIMP.H_UP_Cluster4_DN
30	1e-19	646 / 2984	CC integral component of membrane
31	2e-19	186 / 616	GSE/ NABA_MATRISOME
32	7e-19	98 / 250	Color K9K27me3_Colon
33	4e-18	212 / 751	CC integral component of plasma membrane
34	6e-17	158 / 519	BP cell-cell signaling
35	7e-17	116 / 338	BP G-protein coupled receptor signaling pathway
36	1e-16	115 / 336	BP neurological system process
37	3e-16	110 / 319	Color Lembecke_TCGA-expr_kmeans_M_CIMP.H_DN
38	4e-16	168 / 574	Brain Overlap_fetal_midbrain_TssP
39	2e-15	78 / 198	GSE/ REACTOME_GPCR_LIGAND_BINDING
40	5e-15	226 / 866	MF signal transducer activity

Overview Map

Spot



p-values



K-Means Clusters

Spot Summary: I

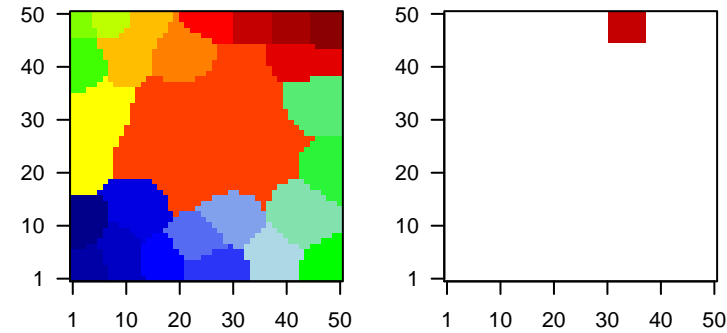
metagenes = 42
genes = 282

<r> metagenes = 0.86
<r> genes = 0.07
beta: r2= 1.06 / log p= -Inf

samples with spot = 7 (7.6 %)
MSC1 : 1 (2.4 %)
MSC2 : 3 (12 %)
MSC3 : 3 (12 %)

Overview Map

Spot

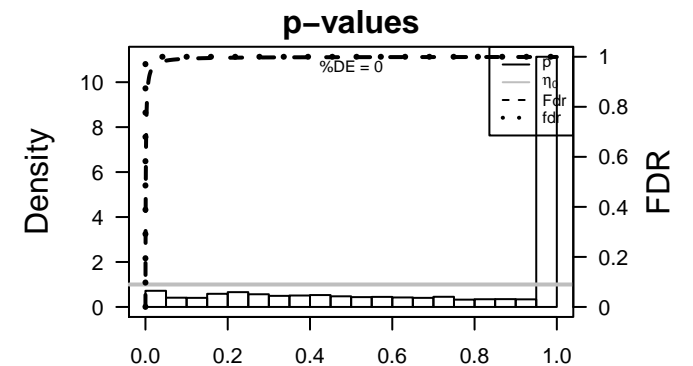
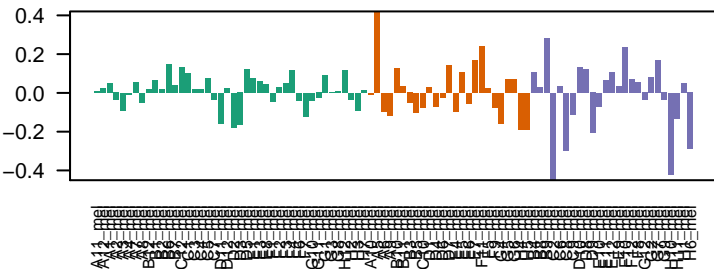


Spot Genelist

Rank	ID	max e	r	min e	Description
1	TYK2	2.19	-0.38	0.23	TYK2 tyrosine kinase 2 [Source:HGNC Symbol;Acc:HGNC:12440]
2	PTPN21	2	-0.19	0.26	PTPN21 protein tyrosine phosphatase, non-receptor type 21 [Source:]
3	BAAT	1.99	-0.45	0.28	BAAT bile acid CoA:amino acid N-acyltransferase [Source:HGNC S]
4	SLC44A2	1.9	-0.2	0.28	SLC44A2solute carrier family 44 (choline transporter), member 2 [Sour
5	FAM179B	1.85	-0.27	0.24	FAM179Bfamily with sequence similarity 179, member B [Source:HGNC]
6	PLCG1	1.83	-0.72	0.36	PLCG1 phospholipase C, gamma 1 [Source:HGNC Symbol;Acc:HGNC]
7	SLC25A35	1.83	-0.09	0.35	SLC25A35solute carrier family 25, member 35 [Source:HGNC Symbol;A
8	FBXW4	1.8	-0.4	0.22	FBXW4 F-box and WD repeat domain containing 4 [Source:HGNC S]
9	RAD51B	1.8	-0.76	0.28	RAD51B RAD51 paralogue B [Source:HGNC Symbol;Acc:HGNC:9822]
10	C8orf46	1.75	-0.18	0.27	C8orf46 chromosome 8 open reading frame 46 [Source:HGNC Symbc
11	PLD6	1.73	-0.29	0.35	PLD6 phospholipase D family, member 6 [Source:HGNC Symbol;Ac
12	DMWD	1.7	-0.24	0.22	DMWD dystrophia myotonica, WD repeat containing [Source:HGNC !
13	ENPP5	1.7	-0.2	0.33	ENPP5 ectonucleotide pyrophosphatase/phosphodiesterase 5 (putati
14	DAK	1.69	-0.31	0.33	DAK dihydroxyacetone kinase 2 homolog (S. cerevisiae) [Source:]-
15	PABPC1L	1.68	-0.4	0.26	PABPC1poly(A) binding protein, cytoplasmic 1-like [Source:HGNC Sy
16	POLR3F	1.67	-0.67	0.28	POLR3F polymerase (RNA) III (DNA directed) polypeptide F, 39 kDa [S
17	GLYCTK	1.67	-0.22	0.29	GLYCTK glycerate kinase [Source:HGNC Symbol;Acc:HGNC:24247]
18	MTRF1	1.66	-0.48	0.25	MTRF1 mitochondrial translational release factor 1 [Source:HGNC Sy
19	IL7	1.65	-0.24	0.26	IL7 interleukin 7 [Source:HGNC Symbol;Acc:HGNC:6023]
20	RALGDS	1.64	-0.14	0.29	RALGDSral guanine nucleotide dissociation stimulator [Source:HGNC

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-12	233 / 9482	Colon Tssa_Colon
2	2e-12	225 / 9027	Colon Tx_Colon
3	4e-12	217 / 8580	Colon TxWk_Colon
4	3e-11	222 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
5	3e-09	161 / 5940	Brain Overlap_fetal_midbrain_HetRpts
6	1e-07	187 / 7592	Lymph HOPP_Active_promoter
7	1e-07	217 / 9330	Brain Overlap_fetal_midbrain_ReprPC
8	2e-07	140 / 5184	Lymph HOPP_Txn_transition
9	7e-07	15 / 167	GSE/ YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_13
10	1e-06	171 / 6929	Lymph HOPP_Txn_elongation
11	4e-06	50 / 1365	MF RNA binding
12	8e-05	37 / 1007	MF poly(A) RNA binding
13	2e-04	30 / 775	Chr Chr 12
14	2e-04	63 / 2136	TF ICGC_GabpPcr2_targets
15	2e-04	59 / 1975	BP cellular protein modification process
16	2e-04	4 / 17	MF RNA polymerase II core binding
17	3e-04	165 / 7203	Colon TssF_Colon
18	4e-04	27 / 706	GSE/ BENPORATH_MYC_MAX_TARGETS
19	4e-04	46 / 1468	CC mitochondrion
20	4e-04	183 / 8205	CC cytoplasm
21	5e-04	7 / 74	GSE/ SWEET_KRAS_ONCOGENIC_SIGNATURE
22	5e-04	225 / 10605	CC intracellular
23	6e-04	206 / 9528	Brain Overlap_fetal_midbrain_Quies
24	7e-04	38 / 1171	TF KIM_MYC targets
25	8e-04	12 / 213	WONG_MITOCHONDRIA_GENE_MODULE
26	8e-04	4 / 23	BP ncRNA metabolic process
27	8e-04	163 / 7209	Lymph HOPP_Weak_promoter
28	9e-04	22 / 553	TF ICGC_RxraPcr1_targets
29	9e-04	5 / 40	GSE/ KEGG_NUCLEOTIDE_EXCISION_REPAIR
30	1e-03	7 / 83	BP mitochondrial translational elongation
31	1e-03	15 / 316	GSE/ HSIAO_HOUSEKEEPING_GENES
32	1e-03	213 / 9988	CC organelle
33	1e-03	92 / 3644	BP biosynthetic process
34	1e-03	18 / 421	GSE/ MOOHTA_MITOCHONDRIA
35	1e-03	80 / 3081	Brain Mid_Frontal_Lobe_ZNF
36	1e-03	9 / 137	GSE/ JISON_SICKLE_CELL_DISEASE_DN
37	1e-03	3 / 12	BP histone H2A monoubiquitination
38	1e-03	4 / 26	BP mRNA polyadenylation
39	1e-03	4 / 26	GSE/ REACTOME_ASSOCIATION_OF_TRIC_CCT_WITH_TARGET_PROTEINS
40	1e-03	17 / 393	BP mRNA processing



K-Means Clusters

Spot Summary: J

metagenes = 107
genes = 356

<r> metagenes = 0.66
<r> genes = 0.13
beta: r2= 0.36 / log p= -9.6

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

Spot Genelist

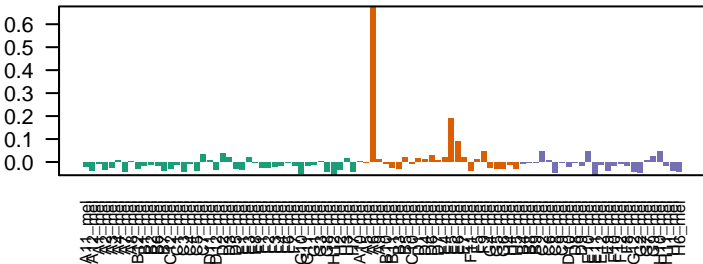
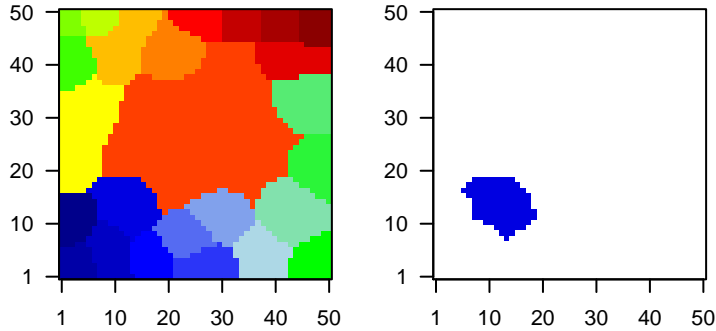
Rank	ID	max e	r	min e	Description
					Symbol
1	TPRN	2.31	-0.2	0.44	TPRN taperin [Source:HGNC Symbol;Acc:HGNC:26894]
2	C3orf14	2.29	-0.16	0.39	C3orf14 chromosome 3 open reading frame 14 [Source:HGNC Symbc
3	MDK	2.02	-0.1	0.54	MDK midkine (neurite growth-promoting factor 2) [Source:HGNC S
4	C10orf107	1.93	-0.08	0.67	C10orf107 chromosome 10 open reading frame 107 [Source:HGNC Syrr
5	ZNF302	1.89	-0.05	0.25	ZNF302 zinc finger protein 302 [Source:HGNC Symbol;Acc:HGNC:13
6	ANKS1B	1.88	-0.13	0.64	ANKS1B ankyrin repeat and sterile alpha motif domain containing 1B [
7	MEGF10	1.88	-0.23	0.44	MEGF10 multiple EGF-like-domains 10 [Source:HGNC Symbol;Acc:H
8	ZNF442	1.86	-0.19	0.45	ZNF442 zinc finger protein 442 [Source:HGNC Symbol;Acc:HGNC:20
9	GANC	1.84	-0.25	0.37	GANC glucosidase, alpha; neutral C [Source:HGNC Symbol;Acc:HG
10	NEK3	1.8	-0.27	0.32	NEK3 NIMA-related kinase 3 [Source:HGNC Symbol;Acc:HGNC:77
11	C9orf92	1.79	-0.1	0.62	C9orf92 chromosome 9 open reading frame 92 [Source:HGNC Symbc
12	MDGA2	1.77	-0.23	0.41	MDGA2 MAM domain containing glycosylphosphatidylinositol anchor :
13	THAP9	1.76	-0.33	0.34	THAP9 THAP domain containing 9 [Source:HGNC Symbol;Acc:HGNC
14	IL33	1.75	-0.05	0.64	IL33 interleukin 33 [Source:HGNC Symbol;Acc:HGNC:16028]
15	MCU	1.74	-0.18	0.47	MCU mitochondrial calcium uniporter [Source:HGNC Symbol;Acc:†
16	CD53	1.74	-0.03	0.31	CD53 CD53 molecule [Source:HGNC Symbol;Acc:HGNC:1686]
17	NFKBIE	1.74	-0.22	0.3	NFKBIE nuclear factor of kappa light polypeptide gene enhancer in B-
18	SNAP25	1.72	-0.13	0.43	SNAP25 synaptosomal-associated protein, 25kDa [Source:HGNC Syr
19	ZSCAN26	1.72	-0.31	0.26	ZSCAN26 zinc finger and SCAN domain containing 26 [Source:HGNC S
20	GIT2	1.69	-0.46	0.25	GIT2 G protein-coupled receptor kinase interacting ArfGAP 2 [Sou

Geneset Overrepresentation

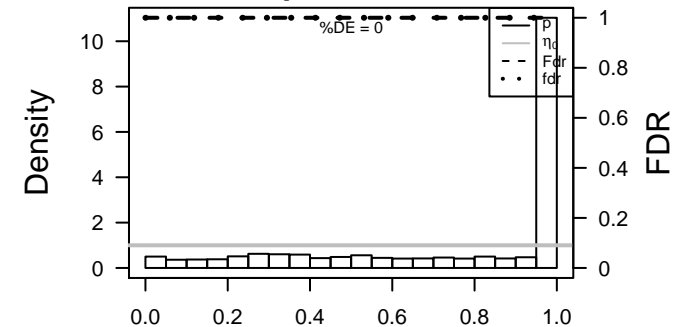
Rank	p-value	#in/all	Geneset
1	6e-07	86 / 2159	Colon TssP_Colon
2	3e-05	21 / 319	Colon Lembcke_TCGA-expr_kmeans_M_CIMP_H_DN
3	6e-05	6 / 30	Lymph TARTE_B-cell signature
4	8e-05	6 / 31	GSE/ TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_DN
5	2e-04	52 / 1317	Colon EnhP_Colon
6	3e-04	4 / 14	BP negative regulation of interferon-gamma production
7	3e-04	46 / 1139	TF HEBENSTREIT_low expression TF
8	3e-04	75 / 2142	Colon ReprPC_Colon
9	4e-04	34 / 775	CC extracellular space
10	4e-04	3 / 7	Lifest DUMEAUX_Women normal BMI literature genes up
11	4e-04	108 / 3396	Lymph HOPP_Repressed
12	5e-04	67 / 1889	Colon ReprPCWk_Colon
13	8e-04	28 / 616	GSE/ NABA_MATRISOME
14	9e-04	4 / 19	TF Ti VAQUERIZAS_Tonsil
15	1e-03	46 / 1207	Brain Overlap_fetal_midbrain_TssF
16	1e-03	12 / 179	GSE/ NABA_SECRETED_FACTORS
17	1e-03	73 / 2188	Lymph HOPP_Poised_promoter
18	1e-03	17 / 314	Colon Lembcke_TCGA_meth_kmeans_E_CIMP_H_UP_
19	2e-03	55 / 1548	Brain Mid_Frontal_Lobe_K9K27me3
20	2e-03	2 / 3	GSE/ MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIIS_DN
21	2e-03	4 / 23	BP hyaluronan metabolic process
22	2e-03	4 / 23	GSE/ REACTOME_OLFACTORY_SIGNALING_PATHWAY
23	2e-03	5 / 38	GSE/ SLIGAN_BOUND_BY_EWS_FLT1_FUSION
24	2e-03	72 / 2185	Brain Fetal_TssA
25	2e-03	96 / 3088	CC plasma membrane
26	3e-03	7 / 78	GSE/ ROVERSI_GLIOMA_COPY_NUMBER_UP
27	3e-03	5 / 41	MF phosphatase binding
28	3e-03	4 / 26	BP detection of chemical stimulus involved in sensory perception of smell
29	3e-03	4 / 26	MF olfactory receptor activity
30	3e-03	20 / 427	GSE/ NABA_MATRISOME_ASSOCIATED
31	3e-03	92 / 2972	Brain Mid_Frontal_Lobe_ReprPC
32	3e-03	3 / 13	BP behavioral response to pain
33	3e-03	3 / 13	BP response to vitamin D
34	3e-03	3 / 13	GSE/ SHIN_B_CELL_LYMPHOMA_CLUSTER_9
35	3e-03	18 / 370	GSE/ SCHAEFFER_PROSTATE_DEVELOPMENT_48HR_UP
36	4e-03	4 / 27	GSE/ HAHTOLA_SEZARY_SYNDROM_DN
37	4e-03	7 / 85	BP response to virus
38	4e-03	18 / 379	GSE/ REACTOME_SIGNALING_BY_GPCR
39	5e-03	46 / 1308	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_UP
40	5e-03	9 / 134	GSE/ MIKKELSEN_MEF_HCP_WITH_H3_UNMETHYLATED

Overview Map

Spot



p-values



K-Means Clusters

Spot Summary: K

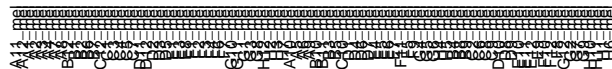
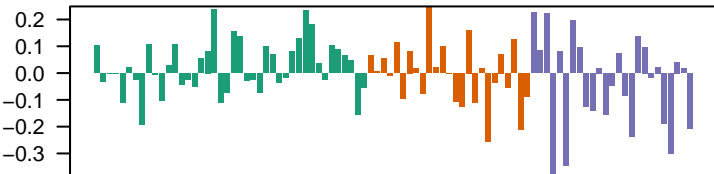
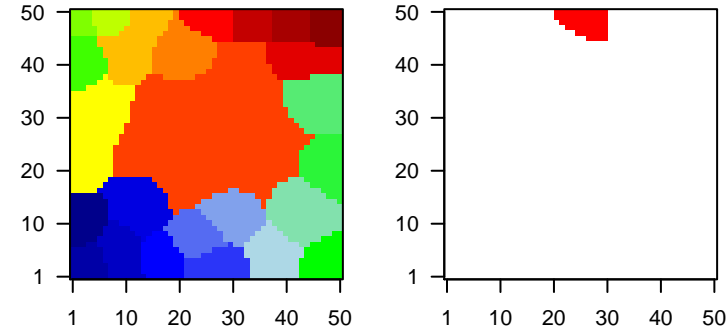
metagenes = 47
genes = 316

<r> metagenes = 0.83
<r> genes = 0.06
beta: r2= 1.01 / log p= -Inf

samples with spot = 9 (9.8 %)
MSC1 : 4 (9.5 %)
MSC2 : 2 (8 %)
MSC3 : 3 (12 %)

Overview Map

Spot

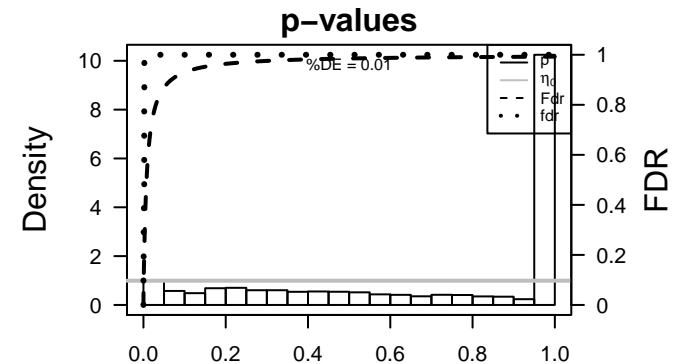


Spot Genelist

Rank	ID	max e	r	min e	Description
1	HIST1H2BB	2.23	-0.03	0.27	HIST1H2BB histone cluster 1, H2bb [Source:HGNC Symbol;Acc:HGNC:41
2	MAP2K6	1.94	-0.24	0.3	MAP2K6 mitogen-activated protein kinase kinase 6 [Source:HGNC Sy
3	ZNF443	1.89	-0.18	0.28	ZNF443 zinc finger protein 443 [Source:HGNC Symbol;Acc:HGNC:20
4	PLCD1	1.88	-0.23	0.34	PLCD1 phospholipase C, delta 1 [Source:HGNC Symbol;Acc:HGNC:
5	FUT10	1.85	-0.25	0.35	FUT10 fucosyltransferase 10 (alpha (1,3) fucosyltransferase) [Sourc
6	ZNF571	1.81	-0.1	0.33	ZNF571 zinc finger protein 571 [Source:HGNC Symbol;Acc:HGNC:25
7	EDC3	1.8	-0.56	0.34	EDC3 enhancer of mRNA decapping 3 [Source:HGNC Symbol;Acc:
8	PCK2	1.77	-0.36	0.39	PCK2 phosphoenolpyruvate carboxykinase 2 (mitochondrial) [Sourc
9	NLE1	1.76	-0.27	0.26	NLE1 notchless homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:
10	ZNF57	1.75	-0.34	0.27	ZNF57 zinc finger protein 57 [Source:HGNC Symbol;Acc:HGNC:131:
11	RCOR1	1.74	-0.27	0.23	RCOR1 REST corepressor 1 [Source:HGNC Symbol;Acc:HGNC:174:
12	DUS2	1.74	-0.32	0.32	DUS2 dihydrouridine synthase 2 [Source:HGNC Symbol;Acc:HGNC
13	POMT2	1.72	-0.24	0.26	POMT2 protein-O-mannosyltransferase 2 [Source:HGNC Symbol;Acc:
14	TRIM68	1.72	-0.24	0.3	TRIM68 tripartite motif containing 68 [Source:HGNC Symbol;Acc:HGNC
15	PROSER3	1.71	-0.29	0.25	PROSER3 proline and serine rich 3 [Source:HGNC Symbol;Acc:HGNC:2
16	IFT172	1.7	-0.2	0.23	IFT172 intraflagellar transport 172 [Source:HGNC Symbol;Acc:HGNC
17	CHUK	1.69	-0.53	0.27	CHUK conserved helix-loop-helix ubiquitous kinase [Source:HGNC
18	FAM188A	1.68	-0.51	0.24	FAM188A family with sequence similarity 188, member A [Source:HGNC
19	POLI	1.67	-0.5	0.34	POLI polymerase (DNA directed) iota [Source:HGNC Symbol;Acc:HGNC
20	LRRRC8B	1.66	-0.26	0.34	LRRRC8B leucine rich repeat containing 8 family, member B [Source:HC

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-18	271 / 9482	Colon TssA_Colon
2	2e-17	261 / 9027	Colon Tx_Colon
3	4e-15	248 / 8580	Colon TxWk_Colon
4	8e-15	215 / 6929	Lymph HOPP_Txn_elongation
5	2e-14	260 / 9330	Brain Overlap_fetal_midbrain_ReprPC
6	3e-12	249 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
7	3e-11	184 / 5940	Brain Overlap_fetal_midbrain_HetRpts
8	6e-10	163 / 5184	Lymph HOPP_Txn_transition
9	4e-08	261 / 10290	Colon TssWk_Colon
10	1e-07	207 / 7592	Lymph HOPP_Active_promoter
11	2e-06	28 / 494	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_DN
12	3e-06	25 / 414	GSE/ ROME_INSULIN_TARGETS_IN_MUSCLE_UP
13	1e-05	35 / 756	GSE/ WEI_MYCN_TARGETS_WITH_E_BOX
14	2e-05	47 / 1171	TF KIM_MYC targets
15	3e-05	8 / 57	CC proteasome complex
16	3e-05	137 / 4829	TF ICGC_Nficsc81335_targets
17	3e-05	214 / 8415	Color Quies3_Colon
18	4e-05	72 / 2136	TF ICGC_GabpPcr2_targets
19	6e-05	11 / 122	BP protein polyubiquitination
20	6e-05	235 / 9528	Brain Overlap_fetal_midbrain_Quies
21	7e-05	117 / 4032	TF ICGC_Creb1_targets
22	7e-05	132 / 4689	TF ICGC_Taf1_targets
23	9e-05	255 / 10605	CC intracellular
24	2e-04	7 / 55	GSE/ REACTOME_AUTODEGRADATION_OF_CDH1_BY_CDH1_APC_C
25	2e-04	48 / 1326	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
26	2e-04	6 / 41	GSE/ KEGG_PROTEASOME
27	2e-04	7 / 58	GSE/ REACTOME_ACTIVATION_OF_NF_KAPPAB_IN_B_CELLS
28	2e-04	8 / 77	GSE/ REACTOME_REGULATION_OF_MRNA_STABILITY_BY_PROTEINS_THA
29	2e-04	6 / 42	miRN hsa-miR-769-3p
30	3e-04	12 / 168	GSE/ MOREAUX_MULTIPLE_MYELOMA_BY_TACI_DN
31	3e-04	11 / 147	BP IRNA metabolic process
32	3e-04	184 / 7209	Lymph HOPP_Weak_promoter
33	3e-04	6 / 44	GSE/ REACTOME_CROSS_PRESENTATION_OF_SOLUBLE_EXOGENOUS_A
34	3e-04	6 / 44	GSE/ REACTOME_CDK_MEDIATED_PHOSPHORYLATION_AND_REMOVAL_C
35	3e-04	57 / 1701	TF HEBENSTREIT_high expression TF
36	3e-04	7 / 62	BP DNA damage response, signal transduction by p53 class mediator resulting
37	3e-04	7 / 62	GSE/ REACTOME_APC_C_CDH1_MEDIATED_DEGRADATION_OF_CDC20_A
38	3e-04	29 / 685	GSE/ KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_UP
39	4e-04	6 / 45	GSE/ REACTOME_AUTODEGRADATION_OF_THE_E3_UBIQUITIN_LIGASE_C
40	4e-04	7 / 63	GSE/ REACTOME_APC_C_CDC20_MEDIATED_DEGRADATION_OF_MITOTIC



K-Means Clusters

Spot Summary: L

metagenes = 61
genes = 596

<r> metagenes = 0.81
<r> genes = 0.08
beta: r2= 1.67 / log p= -Inf

samples with spot = 14 (15.2 %)
MSC2 : 12 (48 %)
MSC3 : 2 (8 %)

Spot Genelist

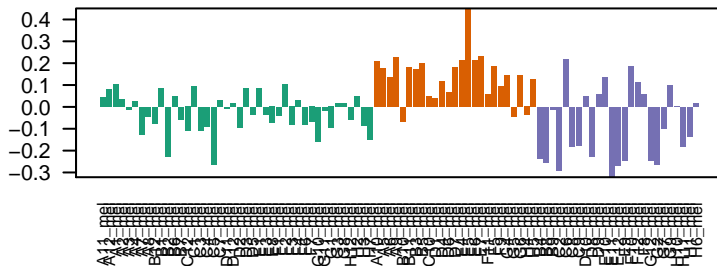
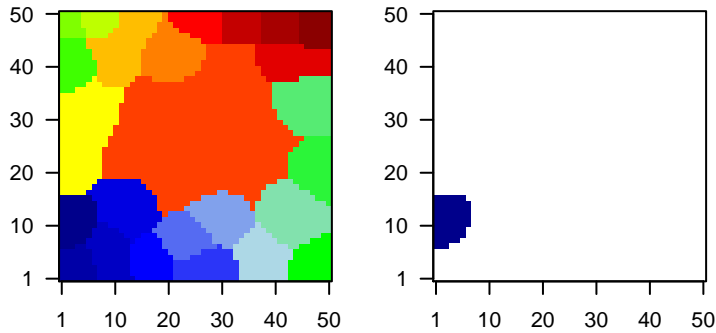
Rank	ID	max e	r	min e	Description
1	FZD3	2.09	-0.27	0.28	FZD3 frizzled class receptor 3 [Source:HGNC Symbol;Acc:HGNC:4
2	SLC25A14	2.08	-0.21	0.26	SLC25A14 solute carrier family 25 (mitochondrial carrier, brain), member
3	POPDC2	2.06	-0.33	0.46	POPDC2 popeye domain containing 2 [Source:HGNC Symbol;Acc:HGNC:1183
4	RNF40	1.97	-0.54	0.27	RNF40 ring finger protein 40, E3 ubiquitin protein ligase [Source:HGNC
5	EGLN3	1.89	-0.41	0.36	EGLN3 egl-9 family hypoxia-inducible factor 3 [Source:HGNC Symb
6	KCNQ5	1.87	-0.46	0.35	KCNQ5 potassium channel, voltage gated KQT-like subfamily Q, mer
7	TKTL1	1.87	-0.19	0.27	TKTL1 transketolase-like 1 [Source:HGNC Symbol;Acc:HGNC:1183
8	CFAP61	1.86	-0.52	0.45	CFAP61 cilia and flagella associated protein 61 [Source:HGNC Symb
9	LYRM9	1.85	-0.31	0.28	LYRM9 LYR motif containing 9 [Source:HGNC Symbol;Acc:HGNC:27
10	CC2D1B	1.84	-0.41	0.22	CC2D1B coiled-coil and C2 domain containing 1B [Source:HGNC Syn
11	TAPBPL	1.83	-0.08	0.34	TAPBPL TAP binding protein-like [Source:HGNC Symbol;Acc:HGNC:2
12	PLA2G4B	1.82	-0.16	0.33	PLA2G4B phospholipase A2, group IVB (cytosolic) [Source:HGNC Symb
13	SLC26A4	1.8	-0.16	0.43	SLC26A4 solute carrier family 26 (anion exchanger), member 4 [Source
14	KRTAP19-1	1.78	-0.78	0.4	KRTAP19-1 keratin associated protein 19-1 [Source:HGNC Symbol;Acc:HGNC:1
15	LCMT2	1.75	-0.37	0.3	LCMT2 leucine carboxyl methyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:1
16	TMEM150A	1.75	-0.24	0.35	TMEM150A transmembrane protein 150A [Source:HGNC Symbol;Acc:HGNC:1
17	RDH14	1.75	-0.43	0.31	RDH14 retinol dehydrogenase 14 (all-trans/9-cis/11-cis) [Source:HGNC:1
18	GAS8	1.75	-0.56	0.29	GAS8 growth arrest-specific 8 [Source:HGNC Symbol;Acc:HGNC:4
19	BBS5	1.74	-0.64	0.36	BBS5 Bardet-Biedl syndrome 5 [Source:HGNC Symbol;Acc:HGNC:1
20	TTC7B	1.74	-0.65	0.19	TTC7B tetratricopeptide repeat domain 7B [Source:HGNC Symbol;Acc:HGNC:1

Geneset Overrepresentation

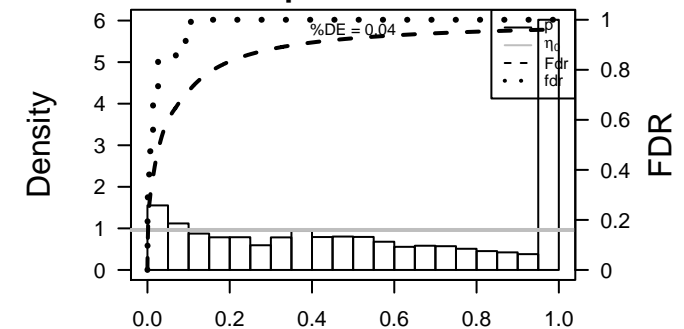
Rank	p-value	#in/all	Geneset
1	5e-21	476 / 9330	Brain Overlap_fetal_midbrain_ReprPC
2	9e-14	444 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
3	3e-12	439 / 9020	Brain Overlap_fetal_midbrain_ReprPCWk
4	1e-11	455 / 9528	Brain Overlap_fetal_midbrain_Quies
5	6e-11	314 / 5940	Brain Overlap_fetal_midbrain_HetRpts
6	8e-10	407 / 8415	Colon Quies3_Colon
7	9e-09	9 / 18	BP melanocyte differentiation
8	1e-08	442 / 9482	Colon TssA_Colon
9	4e-08	341 / 6929	Lymph HOPP_Txn_elongation
10	8e-08	421 / 9027	Colon Tx_Colon
11	2e-07	266 / 5184	Lymph HOPP_Txn_transition
12	5e-07	8 / 20	BP semaphorin-plexin signaling pathway
13	5e-07	400 / 8580	Colon TxWk_Colon
14	2e-06	13 / 67	BP pigmentation
15	3e-06	358 / 7592	Lymph HOPP_Active_promoter
16	8e-06	314 / 6564	Lymph HOPP_Strong_enhancer
17	1e-05	143 / 2576	CC membrane
18	1e-05	6 / 15	BP developmental pigmentation
19	2e-05	5 / 10	MF semaphorin receptor binding
20	3e-05	275 / 5693	Lymph HOPP_Weak_enhancer
21	3e-05	29 / 317	GSE/ PHONG_TNF_RESPONSE_NOT_VIA_P38
22	3e-05	9 / 42	GSE/ PID_RHOA_REG_PATHWAY
23	4e-05	195 / 3812	Colon TssD1_Colon
24	4e-05	19 / 167	GSE/ KIM_MYC_AMPLIFICATION_TARGETS_UP
25	5e-05	251 / 5155	Colon EnhWk1_Colon
26	6e-05	88 / 1468	CC mitochondrion
27	7e-05	61 / 925	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
28	9e-05	452 / 10290	Colon TssWk_Colon
29	1e-04	5 / 13	GSE/ REACTOME_OTHER_SEMAPHORIN_INTERACTIONS
30	1e-04	372 / 8205	CC cytoplasm
31	1e-04	6 / 21	BP melanosome transport
32	1e-04	70 / 1128	Lymph SPANG_BCR_DN
33	1e-04	278 / 5880	Colon TssD2_Colon
34	2e-04	44 / 620	GSE/ MILL_PSEUDOPODIA_HAPTOTAXIS_DN
35	2e-04	331 / 7209	Lymph HOPP_Weak_promoter
36	2e-04	172 / 3383	Colon EnhWk2_Colon
37	2e-04	42 / 590	BP cell morphogenesis
38	2e-04	18 / 174	HM HALLMARK_ESTROGEN_RESPONSE_EARLY
39	2e-04	48 / 705	BP locomotion
40	2e-04	5 / 15	GSE/ BOYALT_LIVER_CANCER_SUBCLASS_G56_DN

Overview Map

Spot



p-values



Rank	p-value	#in/all
1	0.000000	131
2	0.000000	131
3	0.000000	131
4	0.000000	131
5	0.000000	131
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96	0.000000	131
97	0.000000	131
98	0.000000	131
99	0.000000	131
100	0.000000	131

Geneset	#in/all	p-value
Regulating genes meth DOWN	68/131	0.000000
HOXA10_aiding_genes meth UP	131/131	0.000000
TESCHENDORFF_age_hypermethylated	131/131	0.000000
ST geneset nanostring	131/131	0.000000
pancan_L1G_B_geneset nanostring	131/131	0.000000
pancan_OAS_geneset nanostring	131/131	0.000000
pancan_OAS2_geneset nanostring	131/131	0.000000
SPANC1_CP_1_index2	131/131	0.000000
CP1_modul1	131/131	0.000000
CP1_modul2	131/131	0.000000
CP1_modul3	131/131	0.000000
CP1_modul4	131/131	0.000000
CP1_modul5	131/131	0.000000
CP1_modul6	131/131	0.000000
CP1_index2	131/131	0.000000
pancan_B1Gk_geneset nanostring	131/131	0.000000
pancan_CC+AP0P_geneset nanostring	131/131	0.000000
pancan_CC+AP0P_geneset nanostring	131/131	0.000000
LIN_CACS_CANCER_UP	131/131	0.000000
Lembecke_Colonic_inflammation	131/131	0.000000
Jueninger_Gene_geneset nanostring	131/131	0.000000
KUIPHER_MIM_poor_survival	131/131	0.000000
SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN	131/131	0.000000
GENILES_modul5	131/131	0.000000

Rank	p-value	#in/all
1	0.000000	111
2	0.000000	111
3	0.000000	111
4	0.000000	111
5	0.000000	111
6	0.000000	111
7	0.000000	111
8	0.000000	111
9	0.000000	111
10	0.000000	111
11	0.000000	111
12	0.000000	111
13	0.000000	111
14	0.000000	111
15	0.000000	111
16	0.000000	111
17	0.000000	111
18	0.000000	111
19	0.000000	111
20	0.000000	111
21	0.000000	111
22	0.000000	111
23	0.000000	111
24	0.000000	111
25	0.000000	111
26	0.000000	111
27	0.000000	111
28	0.000000	111
29	0.000000	111
30	0.000000	111
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32	0.000000	111
33	0.000000	111
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35	0.000000	111
36	0.000000	111
37	0.000000	111
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39	0.000000	111
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53	0.000000	111
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90	0.000000	111
91	0.000000	111
92	0.000000	111
93	0.000000	111
94	0.000000	111
95	0.000000	111
96	0.000000	111
97	0.000000	111
98	0.000000	111
99	0.000000	111
100	0.000000	111

Geneset	#in/all	p-value
ST geneset nanostring	111/131	0.000000
pancan_L1G_B_geneset nanostring	111/131	0.000000
pancan_OAS_geneset nanostring	111/131	0.000000
pancan_OAS2_geneset nanostring	111/131	0.000000
SPANC1_CP_1_index2	111/131	0.000000
CP1_modul1	111/131	0.000000
CP1_modul2	111/131	0.000000
CP1_modul3	111/131	0.000000
CP1_modul4	111/131	0.000000
CP1_modul5	111/131	0.000000
CP1_modul6	111/131	0.000000
CP1_index2	111/131	0.000000
pancan_B1Gk_geneset nanostring	111/131	0.000000
pancan_CC+AP0P_geneset nanostring	111/131	0.000000
pancan_CC+AP0P_geneset nanostring	111/131	0.000000
LIN_CACS_CANCER_UP	111/131	0.000000
Lembecke_Colonic_inflammation	111/131	0.000000
Jueninger_Gene_geneset nanostring	111/131	0.000000
KUIPHER_MIM_poor_survival	111/131	0.000000
SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN	111/131	0.000000
GENILES_modul5	111/131	0.000000

Rank	p-value	#in/all
1	0.000000	117
2	0.000000	117
3	0.000000	117
4	0.000000	117
5	0.000000	117
6	0.000000	117
7	0.000000	117
8	0.000000	117
9	0.000000	117
10	0.000000	117
11	0.000000	117
12	0.000000	117
13	0.000000	117
14	0.000000	117
15	0.000000	117
16	0.000000	117
17	0.000000	117
18	0.000000	117
19	0.000000	117
20	0.000000	117
21	0.000000	117
22	0.000000	117
23	0.000000	117
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26	0.000000	117
27	0.000000	117
28	0.000000	117
29	0.000000	117
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57	0.000000	117
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59	0.000000	117
60	0.000000	117
61	0.000000	117
62	0.000000	117
63	0.000000	117
64	0.000000	117
65	0.000000	117
66	0.000000	117
67	0.000000	117
68	0.000000	117
69	0.000000	117
70	0.000000	117
71	0.000000	117
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75	0.000000	117
76	0.000000	117
77	0.000000	117
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79	0.000000	117
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91	0.000000	117
92	0.000000	117
93	0.000000	117
94	0.000000	117
95	0.000000	117
96	0.000000	117
97	0.000000	117
98	0.000000	117
99	0.000000	117
100	0.000000	117

Geneset	#in/all	p-value
Colo5_Colon	117/131	0.000000
Colo4_Colon	117/131	0.000000

K-Means Clusters

Spot Summary: M

metagenes = 69
genes = 637

<r> metagenes = 0.71
<r> genes = 0.08
beta: r2= 0.81 / log p= -Inf

samples with spot = 4 (4.3 %)
MSC2 : 4 (16 %)

Spot Genelist

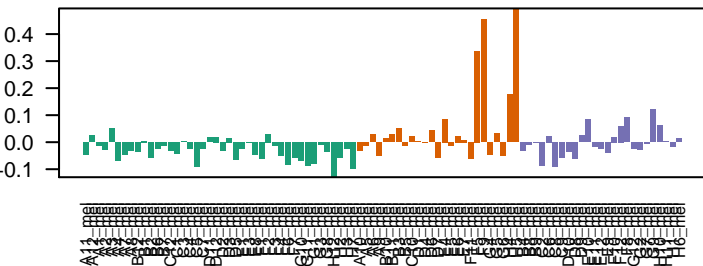
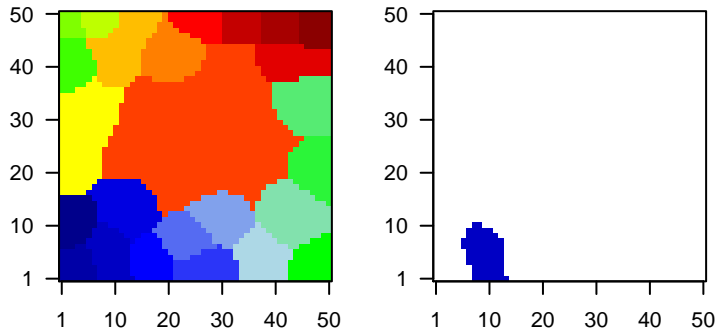
Rank	ID	max e	r	min e	Description
					Symbol
1	PDCD11	2.19	-0.54	0.24	PDCD11 programmed cell death 11 [Source:HGNC Symbol;Acc:HGNC
2	ZNF483	2.09	-0.13	0.46	ZNF483 zinc finger protein 483 [Source:HGNC Symbol;Acc:HGNC:23
3	METAP1D	2.04	-0.33	0.31	METAP1D methionyl aminopeptidase type 1D (mitochondrial) [Source:H
4	ADARB1	2.04	-0.86	0.37	ADARB1 adenosine deaminase, RNA-specific, B1 [Source:HGNC Syn
5	C1orf111	2.02	-0.07	0.66	C1orf111 chromosome 1 open reading frame 111 [Source:HGNC Synt
6	SLC24A1	1.94	-0.09	0.54	SLC24A1 solute carrier family 24 (sodium/potassium/calcium exchange
7	GPR183	1.92	-0.15	0.49	GPR183 G protein-coupled receptor 183 [Source:HGNC Symbol;Acc:l
8	SEPP1	1.92	-0.03	0.77	SEPP1 selenoprotein P, plasma, 1 [Source:HGNC Symbol;Acc:HGNC
9	C11orf71	1.91	-0.28	0.42	C11orf71 chromosome 11 open reading frame 71 [Source:HGNC Synt
10	HDAC11	1.91	-0.17	0.36	HDAC11 histone deacetylase 11 [Source:HGNC Symbol;Acc:HGNC:11
11	FCGRT	1.9	-0.05	0.36	FCGRT Fc fragment of IgG, receptor, transporter, alpha [Source:HGN
12	RHPN2	1.85	-0.17	0.36	RHPN2 rhophilin, Rho GTPase binding protein 2 [Source:HGNC Sym
13	EPB41L4A	1.84	-0.28	0.28	EPB41L4A erythrocyte membrane protein band 4.1 like 4A [Source:HGN
14	PIGL	1.84	-0.33	0.26	PIGL phosphatidylinositol glycan anchor biosynthesis, class L [Sou
15	KCNIP4	1.84	-0.07	0.63	KCNIP4 Kv channel interacting protein 4 [Source:HGNC Symbol;Acc:l
16	FGFBP2	1.83	-0.07	0.48	FGFBP2 fibroblast growth factor binding protein 2 [Source:HGNC Sym
17	RENBP	1.83	-0.24	0.45	RENBP renin binding protein [Source:HGNC Symbol;Acc:HGNC:995
18	ZNF77	1.83	-0.17	0.42	ZNF77 zinc finger protein 77 [Source:HGNC Symbol;Acc:HGNC:131
19	STKLD1	1.82	-0.11	0.34	STKLD1 serine/threonine kinase-like domain containing 1 [Source:HG
20	TRAF2	1.82	-0.16	0.33	TRAF2 TNF receptor-associated factor 2 [Source:HGNC Symbol;Acc

Geneset Overrepresentation

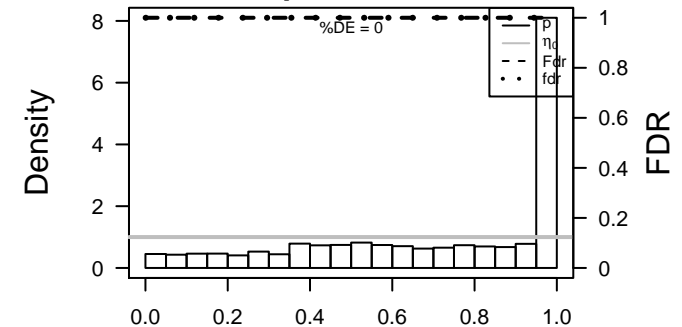
Rank	p-value	#in/all	Geneset
1	3e-04	67 / 1033	MF nucleic acid binding
2	6e-04	8 / 45	GSE/ TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_MONOCYTE_DN
3	6e-04	8 / 46	BP response to ionizing radiation
4	1e-03	45 / 656	Brain Overlap_fetal_midbrain_EnhP
5	2e-03	4 / 13	MF antigen binding
6	2e-03	4 / 13	GSE/ TSAI_DNAJB4_TARGETS_UP
7	2e-03	37 / 527	GSE/ ACEVEDO_METHYLATED_IN_LIVER_CANCER_DN
8	3e-03	20 / 237	GSE/ OSWALD_HEMATOPOIETIC_STEM_CELL_IN_COLLAGEN_GEL_DN
9	3e-03	116 / 2136	TF ICGC_GabpPcr2_targets
10	3e-03	110 / 2013	TF ICGC_Bcl11_targets
11	3e-03	6 / 35	GSE/ WU_SILENCED_BY_METHYLATION_IN_BLADDER_CANCER
12	3e-03	103 / 1872	TF ICGC_Mef2_targets
13	4e-03	7 / 47	GSE/ LEE_EARLY_T_LYMPHOCYTE_DN
14	4e-03	152 / 2927	TF ICGC_Rad21_targets
15	4e-03	3 / 8	GSE/ BIOCARTE_SODD_PATHWAY
16	5e-03	15 / 167	GSE/ BROWNE_HCMV_INFECTION_18HR_UP
17	6e-03	284 / 5940	Brain Overlap_fetal_midbrain_HetRpts
18	6e-03	5 / 28	GSE/ BIOCARTE_TNFR1_PATHWAY
19	6e-03	63 / 1079	Color ZNF_Colon
20	6e-03	6 / 40	GSE/ MIKKELSEN_NPC_LCP_WITH_H3K4ME3
21	7e-03	7 / 53	BP phosphatidylinositol biosynthetic process
22	7e-03	62 / 1065	Brain Overlap_fetal_midbrain_Enh
23	7e-03	3 / 10	BP cardiac muscle cell proliferation
24	7e-03	3 / 10	BP production of miRNAs involved in gene silencing by miRNA
25	8e-03	26 / 367	GSE/ MONNIER_POSTRADIATION_TUMOR_ESCAPE_UP
26	8e-03	24 / 331	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_UP
27	8e-03	194 / 3924	TF ICGC_Zeb1_targets
28	8e-03	7 / 55	GSE/ WANG_PROSTATE_CANCER_ANDROGEN_INDEPENDENT
29	9e-03	13 / 145	miRN hsa-miR-922
30	9e-03	4 / 20	GSE/ RICKMAN_HEAD_AND_NECK_CANCER_D
31	9e-03	9 / 84	miRN hsa-miR-339-5p
32	9e-03	5 / 31	GSE/ BOGNI_TREATMENT_RELATED_MYELOID_LEUKEMIA_DN
33	9e-03	228 / 4706	TF ICGC_Sp1_targets
34	1e-02	71 / 1266	TF ICGC_NrfPcr1_targets
35	1e-02	125 / 2416	TF ICGC_Bcl3_targets
36	1e-02	6 / 44	GSE/ REACTOME_PI_METABOLISM
37	1e-02	17 / 215	miRN hsa-miR-199a-3p
38	1e-02	4 / 21	GSE/ LA_MEN1_TARGETS
39	1e-02	8 / 72	GSE/ JAIN_NFKB_SIGNALING
40	1e-02	23 / 325	GSE/ REACTOME_GENERIC_TRANSCRIPTION_PATHWAY

Overview Map

Spot



p-values



K-Means Clusters

Spot Summary: N

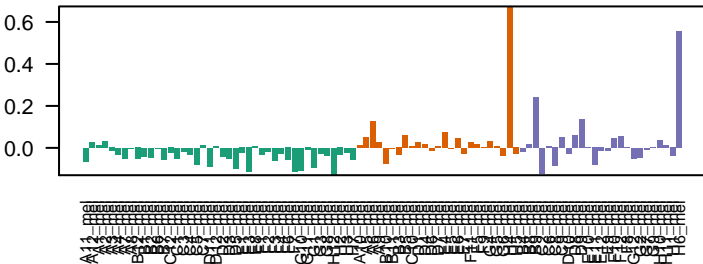
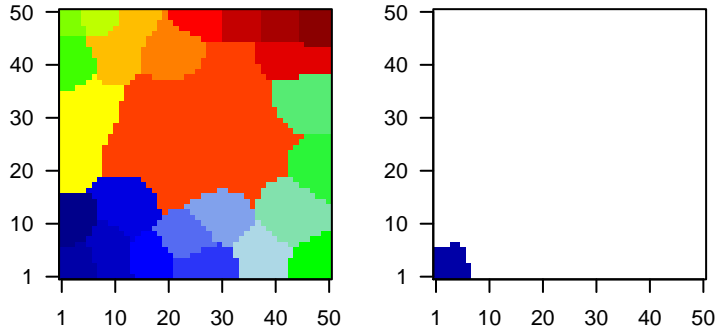
metagenes = 41
genes = 641

<r> metagenes = 0.78
<r> genes = 0.09
beta: r2= 1.21 / log p= -Inf

samples with spot = 3 (3.3 %)
MSC2 : 1 (4 %)
MSC3 : 2 (8 %)

Overview Map

Spot

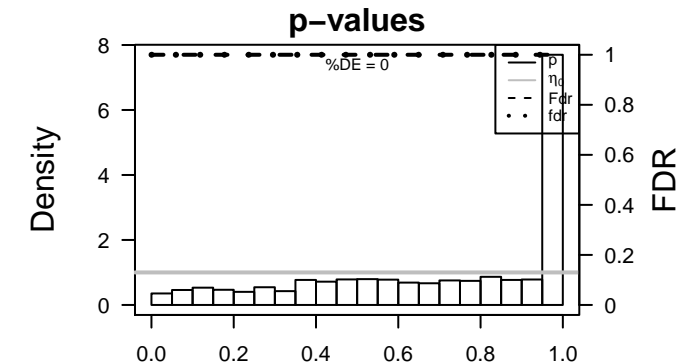


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	HORMAD1	2.38	-0.23	0.34	HORMAD1HORMA domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10000]
2	SCHIP1	2.29	-0.1	0.48	SCHIP1 schwannomin interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:10000]
3	NINL	2.26	-0.04	0.79	NINL ninein-like [Source:HGNC Symbol;Acc:HGNC:29163]
4	PAN2	2.19	-0.24	0.32	PAN2 PAN2 poly(A) specific ribonuclease subunit [Source:HGNC Symbol;Acc:HGNC:10000]
5	GPR107	2.16	-0.36	0.34	GPR107 G protein-coupled receptor 107 [Source:HGNC Symbol;Acc:HGNC:10000]
6	MAGEA1	2.11	-0.1	0.48	MAGEA1melanoma antigen family A1 [Source:HGNC Symbol;Acc:HGNC:10000]
7	C14orf93	2.1	-0.34	0.43	C14orf93chromosome 14 open reading frame 93 [Source:HGNC Symbol;Acc:HGNC:10000]
8	NPL	2.03	-0.15	0.37	NPL N-acetylneuraminate pyruvate lyase (dihydropicolinate syntase) [Source:HGNC Symbol;Acc:HGNC:10000]
9	GARNL3	2.01	-0.2	0.26	GARNL3GTPase activating Rap/RanGAP domain-like 3 [Source:HGNC Symbol;Acc:HGNC:10000]
10	COL4A5	2.01	-0.07	0.46	COL4A5 collagen, type IV, alpha 5 [Source:HGNC Symbol;Acc:HGNC:10000]
11	FAM154B	1.99	-0.18	0.3	FAM154B family with sequence similarity 154, member B [Source:HGNC Symbol;Acc:HGNC:10000]
12	THNSL2	1.98	-0.03	0.7	THNSL2 threonine synthase-like 2 (S. cerevisiae) [Source:HGNC Symbol;Acc:HGNC:10000]
13	TMEM164	1.95	-0.23	0.42	TMEM164transmembrane protein 164 [Source:HGNC Symbol;Acc:HGNC:10000]
14	IFI44	1.95	-0.25	0.34	IFI44 interferon-induced protein 44 [Source:HGNC Symbol;Acc:HGNC:10000]
15	CFP	1.94	-0.03	0.87	CFP complement factor properdin [Source:HGNC Symbol;Acc:HGNC:10000]
16	RANBP3L	1.9	-0.03	0.86	RANBP3LRAN binding protein 3-like [Source:HGNC Symbol;Acc:HGNC:10000]
17	LPHN1	1.9	-0.17	0.32	LPHN1 leucine-rich repeat protein 1 [Source:HGNC Symbol;Acc:HGNC:10000]
18	PORCN	1.88	-0.18	0.38	PORCN porcupine homolog (Drosophila) [Source:HGNC Symbol;Acc:HGNC:10000]
19	PCDHGC3	1.86	-0.36	0.29	PCDHGC3protocadherin gamma subfamily C, 3 [Source:HGNC Symbol;Acc:HGNC:10000]
20	WWC1	1.86	-0.12	0.48	WWC1 WW and C2 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10000]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	9e-05	72 / 1079	Colon ZNF_Colon
2	2e-04	100 / 1664	BP transcription, DNA-templated
3	4e-04	18 / 172	GSE# GRAESSMANN_RESPONSE_TO_MC_AND_SERUM_DEPRIVATION_UP
4	6e-04	6 / 26	GSE# EINAV_INTERFERON_SIGNATURE_IN_CANCER
5	7e-04	7 / 36	BP erythrocyte differentiation
6	8e-04	346 / 7203	Colon TssF_Colon
7	8e-04	4 / 11	BP tRNA modification
8	9e-04	106 / 1859	MF metal ion binding
9	1e-03	13 / 115	GSE# TSENG_IRS1_TARGETS_DN
10	1e-03	441 / 9528	Brain Overlap_fetal_midbrain_Quies
11	2e-03	64 / 1037	Chr Chr 19
12	2e-03	4 / 13	Lymp BENTINK_mBL_UP
13	2e-03	8 / 54	GSE# DASU_IL6_SIGNALING_UP
14	2e-03	3 / 7	GSE# JIANG_CORE_DUPLICATION_GENES
15	3e-03	4 / 15	BP keratinization
16	3e-03	131 / 2462	Brain Mid_Frontal_Lobe_HetRpts
17	4e-03	146 / 2798	Color TxEnhG1_Colon
18	4e-03	4 / 16	BP calcium ion import
19	4e-03	7 / 49	GSE# LEE_LIVER_CANCER_MYC_E2F1_UP
20	6e-03	32 / 469	GSE# GRAESSMANN_APOPTOSIS_BY_SERUM_DEPRIVATION_UP
21	6e-03	4 / 18	GSE# HOLLEMANN_PREDNISOLONE_RESISTANCE_ALL_UP
22	7e-03	8 / 67	GSE# RASHI_RESPONSE_TO_IONIZING_RADIATION_6
23	7e-03	3 / 10	BP regulation of cytokine production
24	8e-03	41 / 649	Chr Chr 16
25	8e-03	4 / 19	GSE# FARMER_BREAST_CANCER_CLUSTER_7
26	8e-03	79 / 1418	TF ICGC_Ets1_targets
27	8e-03	45 / 730	GSE# RODRIGUES_THYROID_CARINOMA_POORLY_DIFFERENTIATED_DN
28	8e-03	5 / 30	GSE# REACTOME_NCAM1_INTERACTIONS
29	9e-03	8 / 69	GSE# DER_IFN_ALPHA_RESPONSE_UP
30	9e-03	15 / 178	GSE# BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_UP
31	9e-03	4 / 20	BP behavioral fear response
32	9e-03	4 / 20	CC dynein complex
33	9e-03	4 / 20	MF hydrolase activity, acting on acid anhydrides, in phosphorus-containing anhydrides
34	9e-03	4 / 20	GSE# ZHANG_INTERFERON_RESPONSE
35	9e-03	5 / 31	GSE# KAAB_FAILED_HEART_ATRIUM_UP
36	1e-02	8 / 70	GSE# VANLOO_SP3_TARGETS_DN
37	1e-02	3 / 11	GSE# TURJANSKI_MAPK1_AND_MAPK2_TARGETS
38	1e-02	279 / 5880	Color TssD2_Colon
39	1e-02	7 / 57	GSE# HOFFMANN_SMALL_PRE_BIL_TO_IMMATURE_B_LYMPHOCYTE_UP
40	1e-02	2 / 4	GSE# HAEGERSTRAND_RESPONSE_TO_IMATINIB



K-Means Clusters

Spot Summary: O

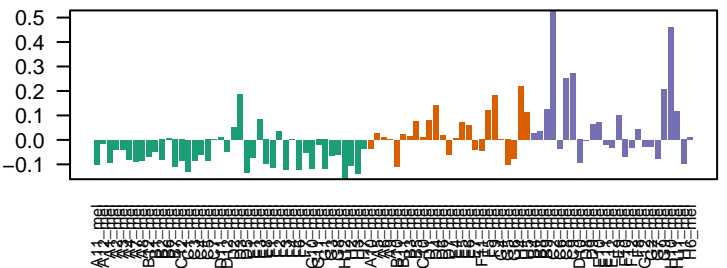
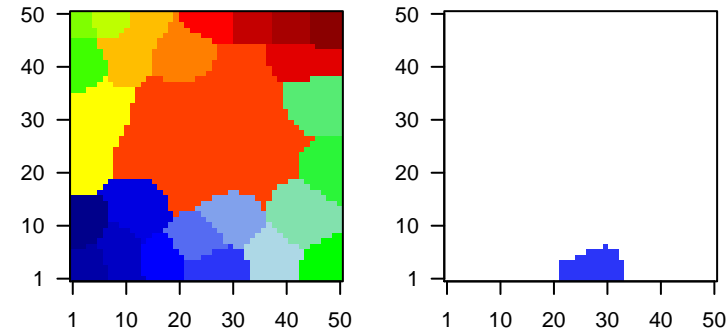
metagenes = 63
genes = 670

<r> metagenes = 0.86
<r> genes = 0.24
beta: r2= 1.22 / log p= -Inf

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

Overview Map

Spot

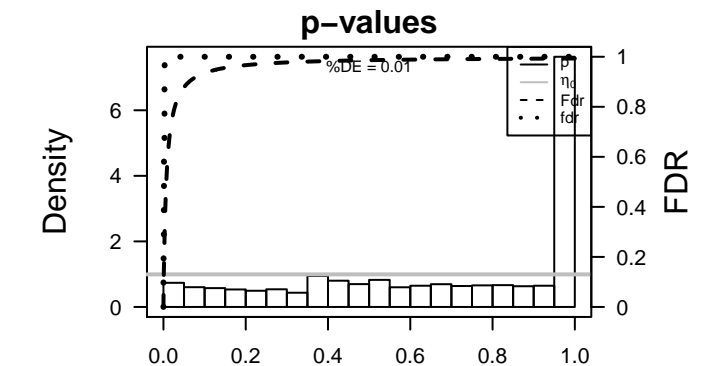


Spot Genelist

Rank	ID	max e	r	min e	Description
1	PIGB	1.97	-0.55	0.32	PIGB phosphatidylinositol glycan anchor biosynthesis, class B [Sou
2	AKAP7	1.92	-0.37	0.36	AKAP7 A kinase (PRKA) anchor protein 7 [Source:HGNC Symbol;Acc
3	TRIM52	1.9	-0.29	0.38	TRIM52 tripartite motif containing 52 [Source:HGNC Symbol;Acc:HGNC
4	PELP1	1.9	-0.32	0.55	PELP1 proline, glutamate and leucine rich protein 1 [Source:HGNC S
5	STAT5B	1.88	-0.43	0.48	STAT5B signal transducer and activator of transcription 5B [Source:HC
6	RCBTB2	1.87	-0.27	0.37	RCBTB2 regulator of chromosome condensation (RCC1) and BTB (PC
7	CAPNS2	1.85	-0.05	0.5	CAPNS2 calpain, small subunit 2 [Source:HGNC Symbol;Acc:HGNC:11
8	BMP4	1.84	-0.21	0.45	BMP4 bone morphogenetic protein 4 [Source:HGNC Symbol;Acc:HGNC
9	AKR1C2	1.81	-0.32	0.34	AKR1C2 aldo-keto reductase family 1, member C2 [Source:HGNC Sym
10	ATRNL1	1.8	-0.3	0.22	ATRNL1 attractin-like 1 [Source:HGNC Symbol;Acc:HGNC:29063]
11	BBS10	1.74	-0.2	0.49	BBS10 Bardet-Biedl syndrome 10 [Source:HGNC Symbol;Acc:HGNC
12	ITPR1	1.7	-0.28	0.26	ITPR1 inositol 1,4,5-trisphosphate receptor, type 1 [Source:HGNC S
13	ATG2B	1.7	-0.32	0.46	ATG2B autophagy related 2B [Source:HGNC Symbol;Acc:HGNC:201
14	ADAMTS16	1.7	-0.24	0.34	ADAMTS16 ADAM metalloproteinase with thrombospondin type 1 motif, 16
15	C11orf57	1.7	-0.44	0.31	C11orf57 chromosome 11 open reading frame 57 [Source:HGNC Symt
16	ZNF701	1.68	-0.41	0.35	ZNF701 zinc finger protein 701 [Source:HGNC Symbol;Acc:HGNC:25
17	HMOX1	1.67	-0.13	0.36	HMOX1 heme oxygenase (decycling) 1 [Source:HGNC Symbol;Acc:H
18	ZNF264	1.67	-0.28	0.42	ZNF264 zinc finger protein 264 [Source:HGNC Symbol;Acc:HGNC:13
19	SSX5	1.66	-0.14	0.38	SSX5 synovial sarcoma, X breakpoint 5 [Source:HGNC Symbol;Acc
20	ZNF550	1.66	-0.21	0.31	ZNF550 zinc finger protein 550 [Source:HGNC Symbol;Acc:HGNC:28

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	6e-13	16 / 37	GSE/ KEGG_ABC_TRANSPORTERS
2	5e-11	21 / 85	MF metalloendopeptidase activity
3	6e-11	15 / 41	MF ATPase activity, coupled to transmembrane movement of substances
4	9e-11	9 / 12	Cancer BEN-PORATH_DN
5	3e-10	12 / 27	GSE/ REACTOME_ABC_FAMILY_PROTEINS_MEDIATED_TRANSPORT
6	3e-08	8 / 14	BP cAMP biosynthetic process
7	4e-07	7 / 13	MF transmembrane receptor protein serine/threonine kinase activity
8	4e-07	7 / 13	GSE/ REACTOME_ABCA_TRANSPORTERS_IN_LIPID_HOMEOSTASIS
9	5e-07	9 / 25	BP adenylate cyclase-activating G-protein coupled receptor signaling pathway
10	7e-07	7 / 14	MF aldehyde dehydrogenase (NAD) activity
11	1e-06	6 / 10	MF adenylate cyclase activity
12	2e-06	21 / 149	GSE/ NABA_ECM_REGULATORS
13	2e-06	7 / 16	MF oxidoreductase activity, acting on the aldehyde or oxo group of donors, NAD
14	5e-06	6 / 12	BP cyclic nucleotide biosynthetic process
15	5e-06	6 / 12	MF phosphorus-oxygen lyase activity
16	5e-06	6 / 12	GSE/ PID_LPA4_PATHWAY
17	5e-06	6 / 12	GSE/ REACTOME_ADENYLATE_CYCLASE_INHIBITORY_PATHWAY
18	1e-05	14 / 83	GSE/ KEGG_VASCULAR_SMOOTH_MUSCLE_CONTRACTION
19	2e-05	5 / 9	GSE/ REACTOME_ADENYLATE_CYCLASE_ACTIVATING_PATHWAY
20	2e-05	20 / 159	CC extracellular matrix
21	2e-05	8 / 28	BP intracellular transport
22	2e-05	13 / 75	MF metalloproteinase activity
23	2e-05	12 / 67	GSE/ REACTOME_G_ALPHA_S_SIGNALLING_EVENTS
24	3e-05	14 / 91	HM HALLMARK_BILE_ACID_METABOLISM
25	4e-05	25 / 239	CC proteinaceous extracellular matrix
26	5e-05	4 / 6	GSE/ REACTOME_ETHANOL_OXIDATION
27	5e-05	6 / 17	BP long-chain fatty acid metabolic process
28	5e-05	5 / 11	MF aldo-keto reductase (NADP) activity
29	6e-05	71 / 1040	MF zinc ion binding
30	1e-04	6 / 19	BP protein targeting to Golgi
31	2e-04	33 / 388	BP proteolysis
32	2e-04	83 / 1309	MF ATP binding
33	2e-04	5 / 14	MF transforming growth factor beta-activated receptor activity
34	2e-04	5 / 14	Cancer LIU_PROSTATE_CANCER_DN
35	2e-04	7 / 30	GSE/ PID_ARF6_PATHWAY
36	3e-04	8 / 41	GSE/ KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450
37	3e-04	5 / 15	BP activation of protein kinase A activity
38	3e-04	5 / 15	TF NOWICK_TF
39	3e-04	5 / 15	GSE/ REACTOME_PKA_MEDIATED_PHOSPHORYLATION_OF_CREB
40	3e-04	13 / 99	GSE/ REACTOME_SIGNALING_BY_EGFR_IN_CANCER



K-Means Clusters

Spot Summary: P

metagenes = 84
genes = 667

<r> metagenes = 0.8
<r> genes = 0.13
beta: r2= 1.07 / log p= -Inf

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

Spot Genelist

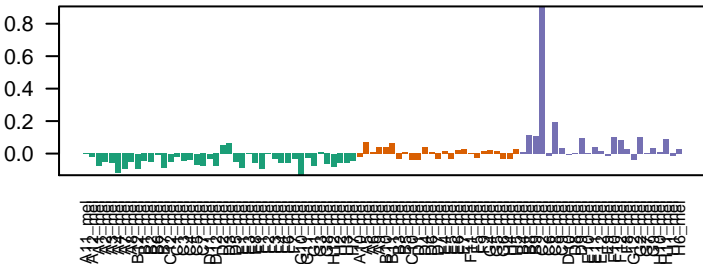
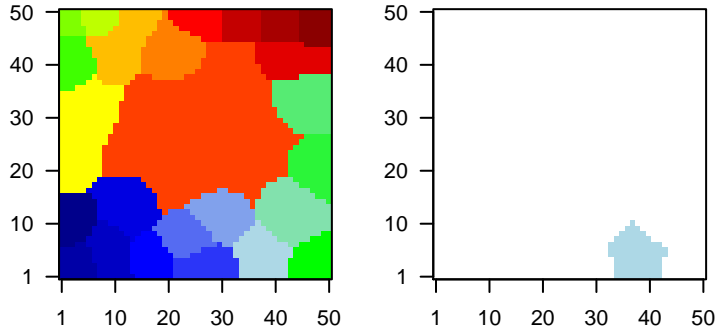
Rank	ID	max e	r	min e	Description
1	FAP	2.68	-0.06	0.83	FAP fibroblast activation protein, alpha [Source:HGNC Symbol;Acc:HGNC:2095]
2	CLU	2.35	-0.13	0.5	CLU clusterin [Source:HGNC Symbol;Acc:HGNC:2095]
3	MYO5B	2.19	-0.18	0.41	MYO5B myosin VB [Source:HGNC Symbol;Acc:HGNC:7603]
4	DOCK9	2.15	-0.22	0.37	DOCK9 dedicator of cytokinesis 9 [Source:HGNC Symbol;Acc:HGNC:2320]
5	CPNE7	2.15	-0.03	0.94	CPNE7 copine VII [Source:HGNC Symbol;Acc:HGNC:2320]
6	KLHDC8B	2.08	-0.34	0.35	KLHDC8B kelch domain containing 8B [Source:HGNC Symbol;Acc:HGNC:2320]
7	WDR90	2.04	-0.35	0.29	WDR90 WD repeat domain 90 [Source:HGNC Symbol;Acc:HGNC:2666]
8	C2orf42	2.03	-0.28	0.43	C2orf42 chromosome 2 open reading frame 42 [Source:HGNC Symbol;Acc:HGNC:2666]
9	HSF4	1.98	-0.15	0.42	HSF4 heat shock transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:2666]
10	CLDN15	1.9	-0.12	0.65	CLDN15 claudin 15 [Source:HGNC Symbol;Acc:HGNC:2036]
11	SLC10A7	1.89	-0.17	0.4	SLC10A7 solute carrier family 10, member 7 [Source:HGNC Symbol;Acc:HGNC:2036]
12	SNX16	1.89	-0.17	0.26	SNX16 sorting nexin 16 [Source:HGNC Symbol;Acc:HGNC:14980]
13	STAMBPL1	1.85	-0.35	0.41	STAMBPL1 STAM binding protein-like 1 [Source:HGNC Symbol;Acc:HGNC:2666]
14	BBS1	1.84	-0.26	0.32	BBS1 Bardet-Biedl syndrome 1 [Source:HGNC Symbol;Acc:HGNC:2666]
15	FHL3	1.83	-0.11	0.6	FHL3 four and a half LIM domains 3 [Source:HGNC Symbol;Acc:HGNC:2666]
16	PPP1R12B	1.81	-0.43	0.28	PPP1R12B protein phosphatase 1, regulatory subunit 12B [Source:HGNC Symbol;Acc:HGNC:2666]
17	ZNF280D	1.8	-0.69	0.33	ZNF280D zinc finger protein 280D [Source:HGNC Symbol;Acc:HGNC:2666]
18	RFX3	1.8	-0.12	0.34	RFX3 regulatory factor X, 3 (influences HLA class II expression) [Source:HGNC Symbol;Acc:HGNC:2666]
19	ARL6	1.79	-0.24	0.4	ARL6 ADP-ribosylation factor-like 6 [Source:HGNC Symbol;Acc:HGNC:2666]
20	C15orf65	1.79	-0.07	0.65	C15orf65 chromosome 15 open reading frame 65 [Source:HGNC Symbol;Acc:HGNC:2666]

Geneset Overrepresentation

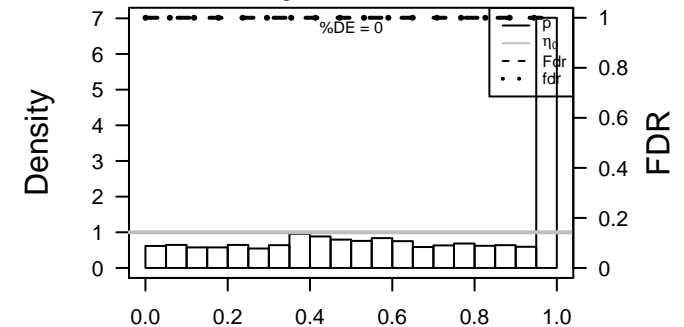
Rank	p-value	#in/all	Geneset
1	2e-05	9 / 36	GSE/ REACTOME_IMMUNOREGULATORY_INTERACTIONS_BETWEEN_A...
2	7e-04	171 / 3081	Brain Mid_Frontal_Lobe_ZNF
3	9e-04	16 / 148	GSE/ BLALOCK_ALZHEIMERS_DISEASE_INCIPIENT_DN
4	1e-03	20 / 209	GSE/ IVANOVA_HEMATOPOIESIS_STEM_CELL
5	1e-03	7 / 38	BP cellular response to amino acid stimulus
6	2e-03	6 / 29	miRN hsa-miR-1225-3p
7	2e-03	5 / 20	BP negative regulation of T cell proliferation
8	2e-03	14 / 127	miRN hsa-miR-323-3p
9	2e-03	5 / 21	GSE/ HINATA_NFKB_TARGETS_KERATINOCYTE_DN
10	2e-03	71 / 1132	CC Golgi apparatus
11	2e-03	8 / 53	BP regulation of immune response
12	2e-03	7 / 42	GSE/ IKEDA_MIR133_TARGETS_UP
13	2e-03	34 / 457	GSE/ SENESE_HDAC3_TARGETS_UP
14	2e-03	9 / 66	GSE/ REACTOME_TRANSCRIPTIONAL_REGULATION_OF_WHITE_ADIPOCY...
15	3e-03	8 / 54	GSE/ REACTOME_RNA_POL_L_PROMOTER_OPENING
16	3e-03	7 / 43	miRN hsa-miR-766
17	3e-03	3 / 7	GSE/ MIKKELSEN_DEDIFFERENTIATED_STATE_DN
18	3e-03	4 / 14	GSE/ BIOCARTA_PITX2_PATHWAY
19	3e-03	8 / 55	miRN hsa-miR-191
20	3e-03	17 / 180	GSE/ GAL_LEUKEMIC_STEM_CELL_DN
21	3e-03	5 / 23	BP gene silencing by RNA
22	3e-03	299 / 5940	Brain Overlap_fetal_midbrain_HetRpts
23	3e-03	6 / 33	GSE/ GRAHAM_CML QUIESCENT_VS_NORMAL QUIESCENT_DN
24	3e-03	9 / 68	miRN hsa-miR-361-3p
25	4e-03	11 / 96	miRN hsa-miR-133a
26	4e-03	8 / 57	miRN hsa-miR-889
27	4e-03	8 / 57	Glio GIEZELT_GBM_STSwt_down_VS_LTSwt
28	4e-03	33 / 451	GSE/ REACTOME_ADAPTIVE_IMMUNE_SYSTEM
29	4e-03	4 / 15	GSE/ GALE_APL_WITH_FLT3_MUTATED_DN
30	4e-03	45 / 668	Brain Mid_Frontal_Lobe_Enh
31	4e-03	18 / 201	GSE/ RAO_BOUND_BY_SALL4
32	4e-03	8 / 58	MF cysteine-type peptidase activity
33	4e-03	22 / 268	miRN hsa-miR-363
34	5e-03	9 / 72	GSE/ REACTOME_MEIOTIC_RECOMBINATION
35	5e-03	17 / 189	GSE/ MULLIGHAN_MLL_SIGNATURE_1_DN
36	5e-03	11 / 100	GSE/ REACTOME_MEIOSIS
37	5e-03	22 / 271	miRN hsa-miR-92a
38	6e-03	3 / 9	GSE/ REACTOME_ROLE_OF_DCC_IN_REGULATING_APOPTOSIS
39	6e-03	10 / 89	miRN hsa-miR-608
40	6e-03	5 / 27	miRN hsa-miR-521

Overview Map

Spot



p-values



Ageing

Rank	p-value	#in/all	Geneset
1	0.0001	100	aging genes meth UP
2	0.0002	100	aging genes meth DOWN
3	0.0003	100	ESCHENDORFF_age_hypermethylated
4	0.0004	100	
5	0.0005	100	
6	0.0006	100	
7	0.0007	100	
8	0.0008	100	
9	0.0009	100	
10	0.001	100	

Cancer

Rank	p-value	#in/all	Geneset
1	0.0001	180	ESCAPE_CANCER_DN
2	0.0002	180	SPANG_BSC-index2
3	0.0003	180	SPANG_BCL6-index2
4	0.0004	180	SPANG_BCL6-index2
5	0.0005	180	KUJIBER_MM_poor_survival
6	0.0006	180	WANG_EM_up
7	0.0007	180	PanCan_Wnt_geneset_nanostring
8	0.0008	180	PanCan_STATE_CANCER_UP
9	0.0009	180	GEN_LDS_modulv
10	0.001	180	GEN_LDS_modulv

Colon Cancer

Rank	p-value	#in/all	Geneset
1	0.0001	176	Pantrack_CRC_TCGA_corr_over_B_msi-h_UP
2	0.0002	176	Pantrack_CRC_TCGA_corr_U_msi-h_UP
3	0.0003	176	Mariaa_CRC-cluster-d
4	0.0004	176	Colo_Colon
5	0.0005	176	K9acLow_Colon
6	0.0006	176	Pantrack_CRC_TCGA_corr_L_msi-h_UP_mss_DN
7	0.0007	176	Mariaa_CRC-cluster-g
8	0.0008	176	Colo_Colon
9	0.0009	176	Colo_Colon
10	0.001	176	O'Brien_Colon

Stem Cells

Rank	p-value	#in/all	Geneset
1	0.0001	16	IMMUNOREGULATORY_INTERACTIONS_BETWEEN_A_LYMI
2	0.0002	16	BLAVOOK_IL23_EFFECTOR_DISEASE_INCIPIENT_DN
3	0.0003	16	HINATA1_NKFC_TARGETS_KERATINOCYTE_DN
4	0.0004	16	INSTAT1_IL23_TARGETS_UP
5	0.0005	16	REACTOME_TRANSCRIPTIONAL_REGULATION_OF_WHITE_ADIPOCYTE
6	0.0006	16	REACTOME_TRANSCRIPTIONAL_REGULATION_OF_WHITE_ADIPOCYTE
7	0.0007	16	MIKKESEN_INDIFFERENTIATED_STATE_DN
8	0.0008	16	BIOCHEM_KEMIC_STEM_CELL_DN
9	0.0009	16	BIOPATH_CML_QUIESCENCE_VS_NORMAL_QUIESCENT_DN
10	0.001	16	GAL4_AP1E_VITAL_ELEMENTS_MUTATED_DN

Lymphoma

Rank	p-value	#in/all	Geneset
1	0.0001	288	SPANG_IL21_plasma_cell_signature
2	0.0002	288	HOP1_Strong_enhancer
3	0.0003	288	HOSOT_Cytive
4	0.0004	288	Subero_IL21_hypo_meth
5	0.0005	288	Subero_MCL_hypo_meth
6	0.0006	288	Subero_IL21_hypo_meth
7	0.0007	288	Subero_IL21_hypo_meth
8	0.0008	288	Subero_IL21_hypo_meth
9	0.0009	288	Subero_IL21_hypo_meth
10	0.001	288	Subero_IL21_hypo_meth

Ratw Act

Rank	p-value	#in/all	Geneset
1	0.0001	10	ESCAPE_CANCER_DN
2	0.0002	10	ESCAPE_CANCER_DN
3	0.0003	10	ESCAPE_CANCER_DN
4	0.0004	10	ESCAPE_CANCER_DN
5	0.0005	10	ESCAPE_CANCER_DN
6	0.0006	10	ESCAPE_CANCER_DN
7	0.0007	10	ESCAPE_CANCER_DN
8	0.0008	10	ESCAPE_CANCER_DN
9	0.0009	10	ESCAPE_CANCER_DN
10	0.001	10	ESCAPE_CANCER_DN

L1 Issue

Rank	p-value	#in/all	Geneset
1	0.0001	107	Wnt1_cerebellum
2	0.0002	107	Wnt1_cerebellum
3	0.0003	107	Wnt1_cerebellum
4	0.0004	107	Wnt1_cerebellum
5	0.0005	107	Wnt1_cerebellum
6	0.0006	107	Wnt1_cerebellum
7	0.0007	107	Wnt1_cerebellum
8	0.0008	107	Wnt1_cerebellum
9	0.0009	107	Wnt1_cerebellum
10	0.001	107	Wnt1_cerebellum

Bank

Rank	p-value	#in/all	Geneset
1	0.0001	720	cellular response to amino acid stimulus
2	0.0002	720	negative regulation of T cell proliferation
3	0.0003	720	regulation of immune response
4	0.0004	720	gene silencing by RNA
5	0.0005	720	activation of transmembrane receptor protein tyrosine kinase activity
6	0.0006	720	cell-cell junction assembly
7	0.0007	720	proteoglycan biosynthetic process
8	0.0008	720	defense response
9	0.0009	720	positive regulation of protein export from nucleus
10	0.001	720	limb development

Bank

Rank	p-value	#in/all	Geneset
1	0.0001	132	SNARE complex
2	0.0002	132	SNARE complex
3	0.0003	132	SNARE complex
4	0.0004	132	SNARE complex
5	0.0005	132	SNARE complex
6	0.0006	132	SNARE complex
7	0.0007	132	SNARE complex
8	0.0008	132	SNARE complex
9	0.0009	132	SNARE complex
10	0.001	132	SNARE complex

Disease

Rank	p-value	#in/all	Geneset
1	0.0001	18	CR1B_BSMasis_down
2	0.0002	18	CR1B_BSMasis_down
3	0.0003	18	CR1B_BSMasis_down
4	0.0004	18	CR1B_BSMasis_down
5	0.0005	18	CR1B_BSMasis_down
6	0.0006	18	CR1B_BSMasis_down
7	0.0007	18	CR1B_BSMasis_down
8	0.0008	18	CR1B_BSMasis_down
9	0.0009	18	CR1B_BSMasis_down
10	0.001	18	CR1B_BSMasis_down

HM

Rank	p-value	#in/all	Geneset
1	0.0001	97	WNT_BETA_CATENIN_SIGNALING
2	0.0002	97	WNT_BETA_CATENIN_SIGNALING
3	0.0003	97	WNT_BETA_CATENIN_SIGNALING
4	0.0004	97	WNT_BETA_CATENIN_SIGNALING
5	0.0005	97	WNT_BETA_CATENIN_SIGNALING
6	0.0006	97	WNT_BETA_CATENIN_SIGNALING
7	0.0007	97	WNT_BETA_CATENIN_SIGNALING
8	0.0008	97	WNT_BETA_CATENIN_SIGNALING
9	0.0009	97	WNT_BETA_CATENIN_SIGNALING
10	0.001	97	WNT_BETA_CATENIN_SIGNALING

MH

Rank	p-value	#in/all	Geneset
1	0.0001	333	peptidase activity
2	0.0002	333	RNA polymerase II transcription cofactor activity
3	0.0003	333	calmodulin-dependent protein kinase activity
4	0.0004	333	protein beta/gamma-subunit complex binding
5	0.0005	333	SNAP receptor activity
6	0.0006	333	calmodulin binding
7	0.0007	333	protease binding
8	0.0008	333	phosphatidylinositol-4-phosphate binding
9	0.0009	333	ATP-dependent microtubule motor activity
10	0.001	333	protein heterodimerization activity

Hf

Rank	p-value	#in/all	Geneset
1	0.0001	198	COC_Bcl1_targets
2	0.0002	198	COC_Bcl1_targets
3	0.0003	198	COC_Bcl1_targets
4	0.0004	198	COC_Bcl1_targets
5	0.0005	198	COC_Bcl1_targets
6	0.0006	198	COC_Bcl1_targets
7	0.0007	198	COC_Bcl1_targets
8	0.0008	198	COC_Bcl1_targets
9	0.0009	198	COC_Bcl1_targets
10	0.001	198	COC_Bcl1_targets

HOXIC

Rank	p-value	#in/all	Geneset
1	0.0001	169	ESCAPE_CANCER_DN
2	0.0002	169	ESCAPE_CANCER_DN
3	0.0003	169	ESCAPE_CANCER_DN
4	0.0004	169	ESCAPE_CANCER_DN
5	0.0005	169	ESCAPE_CANCER_DN
6	0.0006	169	ESCAPE_CANCER_DN
7	0.0007	169	ESCAPE_CANCER_DN
8	0.0008	169	ESCAPE_CANCER_DN
9	0.0009	169	ESCAPE_CANCER_DN
10	0.001	169	ESCAPE_CANCER_DN

Brain

Rank	p-value	#in/all	Geneset
1	0.0001	299	Mid_Frontal_Lobe_ZNF
2	0.0002	299	Overlap_fetal_midbrain_HetRpts
3	0.0003	299	Mid_Frontal_Lobe_Enh
4	0.0004	299	Overlap_fetal_midbrain_ReprPCWk
5	0.0005	299	Overlap_fetal_midbrain_Quies
6	0.0006	299	Fetal_Enh
7	0.0007	299	Mid_Frontal_Lobe_Het
8	0.0008	299	Fetal_TSSA
9	0.0009	299	Mid_Frontal_Lobe_EnhP
10	0.001	299	Mid_Frontal_Lobe_EnhP

Brain

Rank	p-value	#in/all	Geneset
1	0.0001	424	Mid_Frontal_Lobe_ZNF
2	0.0002	424	Overlap_fetal_midbrain_HetRpts
3	0.0003	424	Mid_Frontal_Lobe_Enh
4	0.0004	424	Overlap_fetal_midbrain_ReprPCWk
5	0.0005	424	Overlap_fetal_midbrain_Quies
6	0.0006	424	Fetal_Enh
7	0.0007	424	Mid_Frontal_Lobe_Het
8	0.0008	424	Fetal_TSSA
9	0.0009	424	Mid_Frontal_Lobe_EnhP
10	0.001	424	Mid_Frontal_Lobe_EnhP

Brain

Rank	p-value	#in/all	Geneset
1	0.0001	424	Mid_Frontal_Lobe_ZNF
2	0.0002	424	Overlap_fetal_midbrain_HetRpts
3	0.0003	424	Mid_Frontal_Lobe_Enh
4	0.0004	424	Overlap_fetal_midbrain_ReprPCWk
5	0.0005	424	Overlap_fetal_midbrain_Quies
6	0.0006	424	Fetal_Enh
7	0.0007	424	Mid_Frontal_Lobe_Het
8	0.0008	424	Fetal_TSSA
9	0.0009	424	Mid_Frontal_Lobe_EnhP
10	0.001	424	Mid_Frontal_Lobe_EnhP

Brain

Rank	p-value	#in/all	Geneset
1	0.0001	424	Mid_Frontal_Lobe_ZNF
2	0.0002	424	Overlap_fetal_midbrain_HetRpts
3	0.0003	424	Mid_Frontal_Lobe_Enh
4	0.0004	424	Overlap_fetal_midbrain_ReprPCWk
5	0.0005	424	Overlap_fetal_midbrain_Quies
6	0.0006	424	Fetal_Enh
7	0.0007	424	Mid_Frontal_Lobe_Het
8	0.0008	424	Fetal_TSSA
9	0.0009	424	Mid_Frontal_Lobe_EnhP
10	0.001	424	Mid_Frontal_Lobe_EnhP

Brain

Rank	p-value	#in/all	Geneset
1	0.0001	424	Mid_Frontal_Lobe_ZNF
2	0.0002	424	Overlap_fetal_midbrain_HetRpts
3	0.0003	424	Mid_Frontal_Lobe_Enh
4	0.0004	424	Overlap_fetal_midbrain_ReprPCWk
5	0.0005	424	Overlap_fetal_midbrain_Quies
6	0.0006	424	Fetal_Enh
7	0.0007	424	Mid_Frontal_Lobe_Het
8	0.0008	424	Fetal_TSSA
9	0.0009	424	Mid_Frontal_Lobe_EnhP
10	0.001	424	Mid_Frontal_Lobe_EnhP

Brain

Rank	p-value	#in/all	Geneset
1	0.0001	424	Mid_Frontal_Lobe_ZNF
2	0.0002	424	Overlap_fetal_midbrain_HetRpts
3	0.0003	424	Mid_Frontal_Lobe_Enh
4	0.0004	424	Overlap_fetal_midbrain_ReprPCWk
5	0.0005	424	Overlap_fetal_midbrain_Quies
6	0.0006	424	Fetal_Enh
7	0.0007	424	Mid_Frontal_Lobe_Het
8	0.0008	424	Fetal_TSSA
9	0.0009	424	Mid_Frontal_Lobe_EnhP
10	0.001	424	Mid_Frontal_Lobe_EnhP

Brain

Rank	p-value	#in/all	Geneset
1	0.0001	424	Mid_Frontal_Lobe_ZNF
2	0.0002	424	Overlap_fetal_midbrain_HetRpts
3	0.0003	424	Mid_Frontal_Lobe_Enh
4	0.0004	424	Overlap_fetal_midbrain_ReprPCWk
5	0.0005	424	Overlap_fetal_midbrain_Quies
6	0.0006	424	Fetal_Enh
7	0.0007	424	Mid_Frontal_Lobe_Het
8	0.0008	424	Fetal_TSSA
9	0.0009	424	Mid_Frontal_Lobe_EnhP
10	0.001	424	Mid_Frontal_Lobe_EnhP

Brain

Rank	p-value	#in/all	Geneset
1	0.0001	299	Mid_Frontal_Lobe_ZNF
2	0.0002	299	Overlap_fetal_midbrain_HetRpts
3	0.0003	299	Mid_Frontal_Lobe_Enh
4	0.0004	299	Overlap_fetal_midbrain_ReprPCWk
5	0.0005	299	Overlap_fetal_midbrain_Quies
6	0.0006	299	Fetal_Enh
7	0.0007	299	Mid_Frontal_Lobe_Het
8	0.0008	299	Fetal_TSSA
9	0.0009	299	Mid_Frontal_Lobe_EnhP
10	0.001	299	Mid_Frontal_Lobe_EnhP

Brain

Rank	p-value	#in/all	Geneset
1	0.0001	424	Mid_Frontal_Lobe_ZNF
2	0.0002	424	Overlap_fetal_midbrain_HetRpts
3	0.0003	424	Mid_Frontal_Lobe_Enh
4	0.0004	424	Overlap_fetal_midbrain_ReprPCWk
5	0.0005	424	

K-Means Clusters

Spot Summary: Q

metagenes = 125
genes = 831

<r> metagenes = 0.8
<r> genes = 0.12
beta: r2= 1.14 / log p= -Inf

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

Spot Genelist

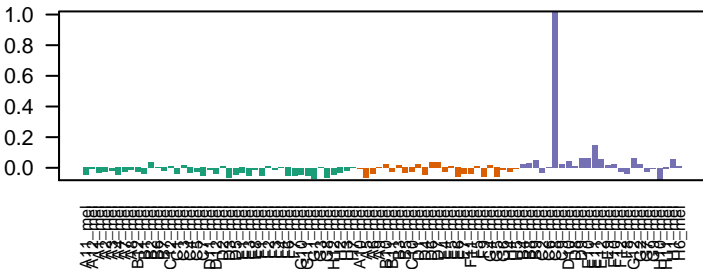
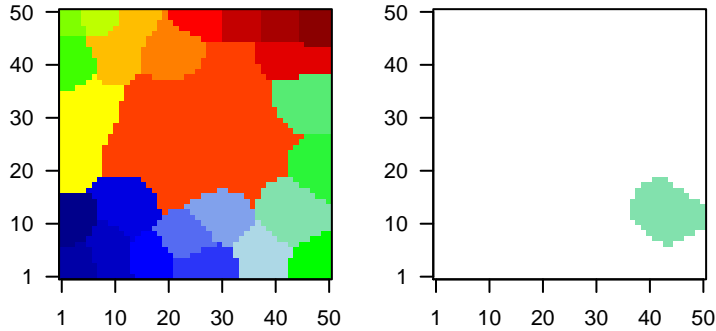
Rank	ID	max e	r	min e	Description
1	PLA2G4C	2.46	-0.18	0.51	PLA2G4C phospholipase A2, group IVC (cytosolic, calcium-independent)
2	FOLR3	2.37	-0.05	0.84	FOLR3 folate receptor 3 (gamma) [Source:HGNC Symbol;Acc:HGNC:12407]
3	KRTAP21-2	2.37	-0.09	0.56	KRTAP21 keratin associated protein 21-2 [Source:HGNC Symbol;Acc:HGNC:12407]
4	GPR133	2.19	-0.03	0.96	GPR133 G-protein-coupled receptor 133 [Source:HGNC Symbol;Acc:HGNC:12407]
5	HIST1H4H	2.16	-0.25	0.44	HIST1H4H histone cluster 1, H4h [Source:HGNC Symbol;Acc:HGNC:12407]
6	FBXL2	2.11	-0.4	0.39	FBXL2 F-box and leucine-rich repeat protein 2 [Source:HGNC Symbol;Acc:HGNC:12407]
7	MNDA	2.08	-0.03	0.96	MNDA myeloid cell nuclear differentiation antigen [Source:HGNC Symbol;Acc:HGNC:12407]
8	NREP	2.03	-0.33	0.4	NREP neuronal regeneration related protein [Source:HGNC Symbol;Acc:HGNC:12407]
9	CADM1	2.03	-0.14	0.49	CADM1 cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:12407]
10	TUBA4A	2.01	-0.13	0.45	TUBA4A tubulin, alpha 4a [Source:HGNC Symbol;Acc:HGNC:12407]
11	PHKA2	2.01	-0.19	0.51	PHKA2 phosphorylase kinase, alpha 2 (liver) [Source:HGNC Symbol;Acc:HGNC:12407]
12	RTN1	2	-0.05	0.87	RTN1 reticulon 1 [Source:HGNC Symbol;Acc:HGNC:10467]
13	NCAM2	2	-0.23	0.4	NCAM2 neural cell adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:12407]
14	DCN	1.98	-0.06	0.65	DCN decorin [Source:HGNC Symbol;Acc:HGNC:2705]
15	SLC14A1	1.98	-0.03	0.93	SLC14A1 solute carrier family 14 (urea transporter), member 1 (Kidd blk)
16	KIAA1324L	1.97	-0.39	0.3	KIAA1324L KIAA1324-like [Source:HGNC Symbol;Acc:HGNC:21945]
17	DGKA	1.96	-0.05	0.41	DGKA diacylglycerol kinase, alpha 80kDa [Source:HGNC Symbol;Acc:HGNC:12407]
18	EXOC6	1.92	-0.58	0.2	EXOC6 exocyst complex component 6 [Source:HGNC Symbol;Acc:HGNC:12407]
19	PRKAG2	1.92	-0.36	0.32	PRKAG2 protein kinase, AMP-activated, gamma 2 non-catalytic subunit
20	WFDC3	1.92	-0.04	0.65	WFDC3 WAP four-disulfide core domain 3 [Source:HGNC Symbol;Acc:HGNC:12407]

Geneset Overrepresentation

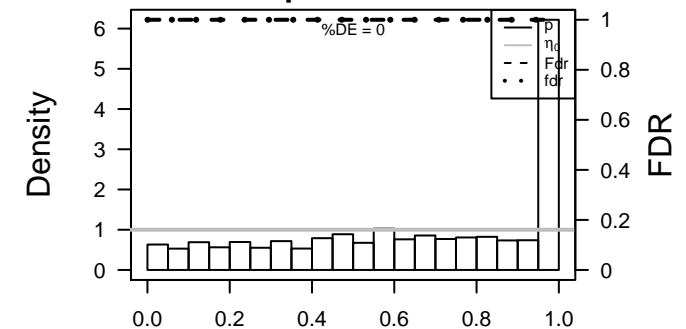
Rank	p-value	#in/all	Geneset
1	3e-05	582 / 9528	Brain Overlap_fetal_midbrain_Quies
2	5e-05	383 / 5940	Brain Overlap_fetal_midbrain_HetRpts
3	2e-04	548 / 9020	Brain Overlap_fetal_midbrain_ReprPCWk
4	5e-04	44 / 472	GSE/ DUTERTRE_ESTRADIOL_RESPONSE_24HR_DN
5	6e-04	545 / 9027	Colon Tx_Colon
6	9e-04	519 / 8580	Colon TxWk_Colon
7	9e-04	63 / 761	GSE/ KOINUMA_TARGETS_OF_SMAD2_OR_SMAD3
8	1e-03	8 / 39	GSE/ LIAO_HAVE_SOX4_BINDING_SITES
9	1e-03	262 / 4032	TF ICGC_Creb1_targets
10	1e-03	6 / 23	BP sensory perception of taste
11	1e-03	5 / 16	BP positive regulation of branching involved in ureteric bud morphogenesis
12	1e-03	5 / 16	GSE/ PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_3
13	2e-03	4 / 10	MF hedgehog receptor activity
14	2e-03	4 / 10	BP necroptotic process
15	2e-03	77 / 995	GSE/ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_DN
16	2e-03	6 / 25	BP bone mineralization
17	2e-03	44 / 506	GSE/ MASSARWEH_TAMOXIFEN_RESISTANCE_UP
18	2e-03	12 / 84	CC PML body
19	2e-03	4 / 11	MF C2H2 zinc finger domain binding
20	3e-03	108 / 1500	Chr Chr 1
21	3e-03	97 / 1325	BP catabolic process
22	3e-03	21 / 196	GSE/ CHANG_CORE_SERUM_RESPONSE_DN
23	3e-03	3 / 6	GSE/ REACTOME_ELEVATION_OF_CYTOSOLIC_CA2_LEVELS
24	3e-03	296 / 4682	TF ICGC_Pol24_targets
25	3e-03	5 / 19	BP olfactory bulb development
26	3e-03	5 / 19	GSE/ REACTOME_EFFECTS_OF_PIP2_HYDROLYSIS
27	3e-03	4 / 12	GSE/ KEGG_SULFUR_METABOLISM
28	3e-03	4 / 12	GSE/ REACTOME_CYTOSOLIC_SULFONATION_OF_SMALL_MOLECULES
29	3e-03	27 / 278	GSE/ GABRIELY_MIR21_TARGETS
30	3e-03	17 / 148	GSE/ BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_DN
31	4e-03	6 / 28	MF ADP binding
32	4e-03	9 / 57	GSE/ ROSS_AML_WITH_PML_RARA_FUSION
33	4e-03	437 / 7209	Lymph HOPP_Weak_promoter
34	4e-03	35 / 396	GSE/ JOHNSTONE_PARVB_TARGETS_3_UP
35	4e-03	4 / 13	GSE/ REACTOME_PLATELET_CALCIIUM_HOMEOSTASIS
36	5e-03	277 / 4385	TF ICGC_Atf2_targets
37	5e-03	16 / 140	BP cellular lipid metabolic process
38	5e-03	9 / 59	GSE/ REACTOME_PLATELET_HOMEOSTASIS
39	5e-03	10 / 70	GSE/ PEDERSEN_TARGETS_OF_611CTF_ISOFORM_OF_ERBB2
40	5e-03	3 / 7	Color Marisa_CRC-C5

Overview Map

Spot



p-values



K-Means Clusters

Spot Summary: R

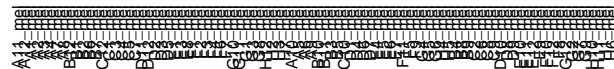
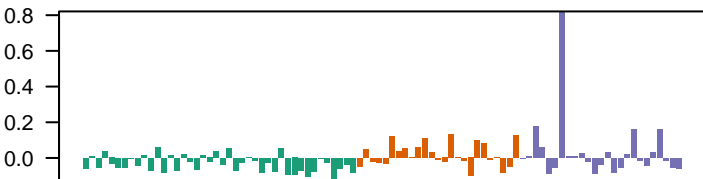
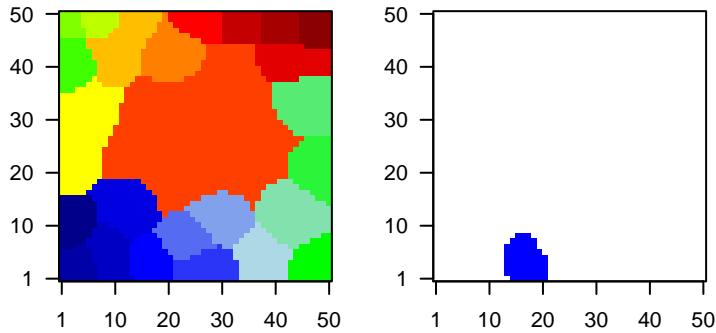
metagenes = 60
genes = 505

<r> metagenes = 0.82
<r> genes = 0.13
beta: r2= 0.8 / log p= -Inf

samples with spot = 4 (4.3 %)
MSC3 : 4 (16 %)

Overview Map

Spot

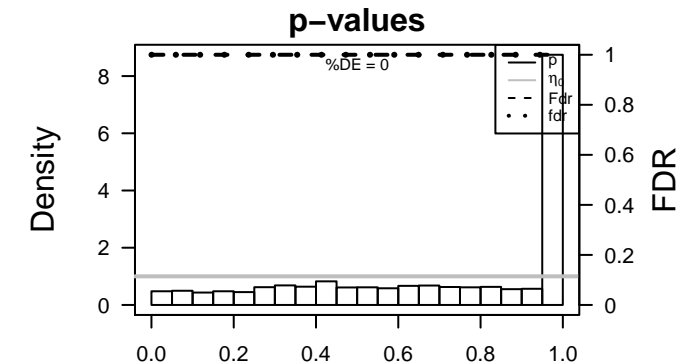


Spot Genelist

Rank	ID	max e	r	min e	Description
1	LRRC27	2.04	-0.16	0.57	LRRC27 leucine rich repeat containing 27 [Source:HGNC Symbol;Acc:
2	IFT46	1.98	-0.27	0.26	IFT46 intraflagellar transport 46 [Source:HGNC Symbol;Acc:HGNC:
3	CLCN5	1.98	-0.19	0.6	CLCN5 chloride channel, voltage-sensitive 5 [Source:HGNC Symbol;
4	MUTYH	1.96	-0.34	0.3	MUTYH mutY homolog [Source:HGNC Symbol;Acc:HGNC:7527]
5	SLC25A53	1.94	-0.16	0.42	SLC25A53olute carrier family 25, member 53 [Source:HGNC Symbol;A
6	STAC	1.9	-0.21	0.35	STAC SH3 and cysteine rich domain [Source:HGNC Symbol;Acc:HT
7	ZNF558	1.9	-0.12	0.53	ZNF558 zinc finger protein 558 [Source:HGNC Symbol;Acc:HGNC:26
8	E2F5	1.86	-0.2	0.38	E2F5 E2F transcription factor 5, p130-binding [Source:HGNC Sym
9	OSR2	1.84	-0.06	0.67	OSR2 odd-skipped related transcription factor 2 [Source:HGNC Syrr
10	ULK2	1.8	-0.23	0.27	ULK2 unc-51 like autophagy activating kinase 2 [Source:HGNC Sy
11	WDR54	1.78	-0.34	0.3	WDR54 WD repeat domain 54 [Source:HGNC Symbol;Acc:HGNC:25:
12	MBD5	1.78	-0.22	0.32	MBD5 methyl-CpG binding domain protein 5 [Source:HGNC Symbo
13	HDGFRP2	1.77	-0.28	0.34	
14	SPATA25	1.76	-0.03	0.77	SPATA25spermatogenesis associated 25 [Source:HGNC Symbol;Acc:l
15	ADSSL1	1.73	-0.2	0.23	ADSSL1 adenylosuccinate synthase like 1 [Source:HGNC Symbol;Acc
16	NUDT13	1.7	-0.15	0.46	NUDT13 nudix (nucleoside diphosphate linked moiety X)-type motif 13
17	RELL1	1.69	-0.22	0.43	RELL1 RELT-like 1 [Source:HGNC Symbol;Acc:HGNC:27379]
18	EML1	1.69	-0.35	0.39	EML1 echinoderm microtubule associated protein like 1 [Source:HG
19	DNAJB2	1.67	-0.1	0.61	DNAJB2 DnaJ (Hsp40) homolog, subfamily B, member 2 [Source:HGNC
20	RORB	1.67	-0.16	0.4	RORB RAR-related orphan receptor B [Source:HGNC Symbol;Acc:l

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-06	17 / 126	BP homophilic cell adhesion via plasma membrane adhesion molecules
2	1e-06	19 / 158	Brain Overlap_fetal_midbrain_Het
3	2e-05	9 / 45	GSE/ MIDORIKAWA_AMPLIFIED_IN_LIVER_CANCER
4	2e-04	45 / 769	Brain Overlap_fetal_midbrain_ZNF
5	3e-04	6 / 29	GSE/ DANG_MYC_TARGETS_DN
6	5e-04	6 / 31	CC membrane coat
7	8e-04	14 / 156	Brain Mid_Frontal_Lobe_TssA
8	1e-03	7 / 50	GSE/ JAZAG_TGFB1_SIGNALING_VIA_SMAD4_DN
9	2e-03	12 / 132	miRN hsa-miR-320d
10	2e-03	4 / 16	BP regulation of centrosome duplication
11	2e-03	31 / 530	MF calcium ion binding
12	2e-03	4 / 17	BP zinc II ion transport
13	2e-03	4 / 17	GSE/ KIM_ALL_DISORDERS_CALB1_CORR_DN
14	2e-03	52 / 1033	MF nucleic acid binding
15	2e-03	13 / 156	GSE/ ACEVEDO_LIVER_CANCER_WITH_H3K27ME3_DN
16	2e-03	273 / 7203	Color TssF_Colon
17	3e-03	228 / 5880	Color TssD2_Colon
18	3e-03	3 / 9	miRN hsa-miR-202*
19	3e-03	3 / 9	GSE/ PETRETTO_BLOOD_PRESSURE_UP
20	3e-03	6 / 43	BP rhythmic process
21	3e-03	5 / 30	GSE/ SCHLINGEMANN_SKIN_CARCINOGENESIS_TPA_UP
22	3e-03	7 / 58	BP protein ubiquitination involved in ubiquitin-dependent protein catabolic proc
23	3e-03	20 / 304	GSE/ GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN
24	3e-03	6 / 44	BP signal transduction by phosphorylation
25	4e-03	12 / 146	miRN hsa-miR-320c
26	4e-03	6 / 46	GSE/ BROWNE_HCMV_INFECTION_1HR_UP
27	5e-03	17 / 250	miRN hsa-miR-520a-3p
28	5e-03	13 / 170	miRN hsa-miR-320b
29	5e-03	3 / 11	BP phosphorelay signal transduction system
30	5e-03	24 / 405	MF ligase activity
31	5e-03	18 / 275	Lymp TARTE_Mature plasma cell signature
32	6e-03	8 / 82	GSE/ WINZEN_DEGRADED_VIA_KHSRP
33	6e-03	194 / 4992	MF ion binding
34	7e-03	3 / 12	GSE/ IVANOV_MUTATED_IN_COLON_CANCER
35	7e-03	5 / 36	BP myelination
36	7e-03	4 / 23	BP intrinsic apoptotic signaling pathway by p53 class mediator
37	7e-03	38 / 747	CC nucleolus
38	8e-03	199 / 5155	Color EnhWk1_Colon
39	8e-03	9 / 104	miRN hsa-miR-525-5p
40	8e-03	7 / 69	miRN hsa-miR-499-3p



K-Means Clusters

Spot Summary: S

metagenes = 79
genes = 526

<r> metagenes = 0.83
<r> genes = 0.13
beta: r2= 0.98 / log p= -Inf

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

Spot Genelist

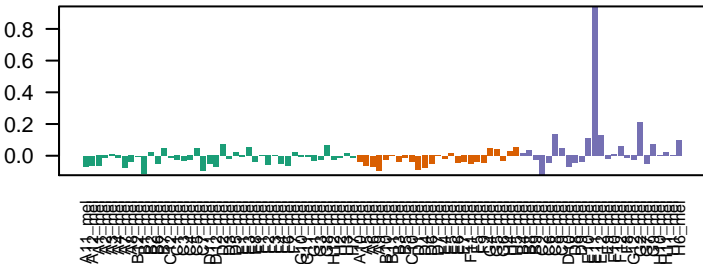
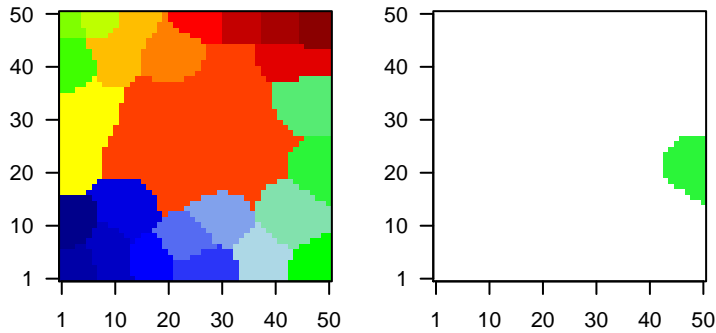
Rank	ID	max e	r	min e	Description
					Symbol
1	VCAN	2.39	-0.1	0.64	VCAN versican [Source:HGNC Symbol;Acc:HGNC:2464]
2	SLCO3A1	2.13	-0.27	0.43	SLCO3A1 solute carrier organic anion transporter family, member 3A1 [Source:HGNC Symbol;Acc:HGNC:2464]
3	SIDT2	1.98	-0.08	0.21	SIDT2 SID1 transmembrane family, member 2 [Source:HGNC Symbol;Acc:HGNC:2464]
4	SCN2A	1.98	-0.06	0.67	SCN2A sodium channel, voltage gated, type II alpha subunit [Source:HGNC Symbol;Acc:HGNC:2464]
5	CLHC1	1.96	-0.28	0.35	CLHC1 clathrin heavy chain linker domain containing 1 [Source:HGNC Symbol;Acc:HGNC:2464]
6	CEMIP	1.96	-0.23	0.46	CEMIP cell migration inducing protein, hyaluronan binding [Source:HGNC Symbol;Acc:HGNC:2464]
7	OXTR	1.94	-0.06	0.76	OXTR oxytocin receptor [Source:HGNC Symbol;Acc:HGNC:8529]
8	MYL4	1.93	-0.04	0.81	MYL4 myosin, light chain 4, alkali; atrial, embryonic [Source:HGNC Symbol;Acc:HGNC:2464]
9	PHLDB2	1.91	-0.23	0.46	PHLDB2 pleckstrin homology-like domain, family B, member 2 [Source:HGNC Symbol;Acc:HGNC:2464]
10	CHL1	1.89	-0.05	0.73	CHL1 cell adhesion molecule L1-like [Source:HGNC Symbol;Acc:HGNC:2464]
11	CCDC81	1.88	-0.05	0.77	CCDC81 coiled-coil domain containing 81 [Source:HGNC Symbol;Acc:HGNC:2464]
12	SDC2	1.85	-0.15	0.51	SDC2 syndecan 2 [Source:HGNC Symbol;Acc:HGNC:10659]
13	GAD1	1.84	-0.07	0.72	GAD1 glutamate decarboxylase 1 (brain, 67kDa) [Source:HGNC Symbol;Acc:HGNC:2464]
14	SAMD9L	1.83	-0.22	0.3	SAMD9L sterile alpha motif domain containing 9-like [Source:HGNC Symbol;Acc:HGNC:2464]
15	TAB1	1.82	-0.27	0.31	TAB1 TGF-beta activated kinase 1/MAP3K7 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:2464]
16	DDX25	1.82	-0.16	0.41	DDX25 DEAD (Asp-Glu-Ala-Asp) box helicase 25 [Source:HGNC Symbol;Acc:HGNC:2464]
17	FBXO3	1.81	-0.52	0.27	FBXO3 F-box protein 3 [Source:HGNC Symbol;Acc:HGNC:13582]
18	HIST1H2BH	1.8	-0.08	0.54	HIST1H2BH histone cluster 1, H2bh [Source:HGNC Symbol;Acc:HGNC:41]
19	NEGR1	1.79	-0.04	0.78	NEGR1 neuronal growth regulator 1 [Source:HGNC Symbol;Acc:HGNC:2464]
20	PTPRO	1.79	-0.04	0.3	PTPRO protein tyrosine phosphatase, receptor type, O [Source:HGNC Symbol;Acc:HGNC:2464]

Geneset Overrepresentation

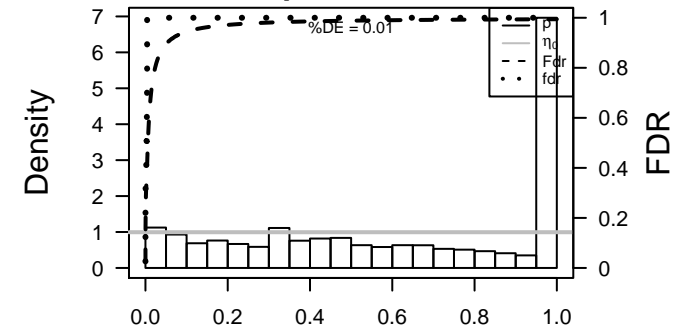
Rank	p-value	#in/all	Geneset
1	5e-06	407 / 10290	Colon TssWk_Colon
2	6e-06	43 / 594	GSE# WONG_ADULT_TISSUE_STEM_MODULE
3	1e-05	18 / 160	GSE# GAUSSMANN_MLL_AF4_FUSION_TARGETS_F_UP
4	1e-05	17 / 146	GSE# TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_UP
5	2e-05	25 / 283	GSE# PEREZ_TP63_TARGETS
6	6e-05	22 / 245	GSE# DURCHDEWALD_SKIN_CARCINOGENESIS_DN
7	6e-05	6 / 21	GSE# REACTOME_PTM_GAMMA_CARBOXYLATION_HYPUSINE_FORMATION
8	8e-05	14 / 120	BP transforming growth factor beta receptor signaling pathway
9	2e-04	10 / 71	GSE# TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_NORMAL_UP
10	2e-04	18 / 195	GSE# SENESE_HDAC1_AND_HDAC2_TARGETS_DN
11	2e-04	9 / 59	GSE# REACTOME_SIGNALING_BY_TGF_BETA_RECEPTOR_COMPLEX
12	3e-04	4 / 10	GSE# REACTOME_THE_ACTIVATION_OF_ARYLSULFATASES
13	3e-04	8 / 49	CC Golgi lumen
14	3e-04	9 / 62	GSE# JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_UP
15	3e-04	32 / 472	GSE# SENESE_HDAC3_TARGETS_DN
16	4e-04	10 / 77	GSE# SWEET_KRAS_TARGETS_UP
17	4e-04	16 / 173	GSE# PEREZ_TP53_AND_TP63_TARGETS
18	5e-04	8 / 53	HM HALLMARK_TGF_BETA_SIGNALING
19	5e-04	11 / 95	GSE# WANG_ESOPHAGUS_CANCER_VS_NORMAL_UP
20	5e-04	95 / 1949	Brain Fetal_TssF
21	5e-04	10 / 81	GSE# TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_NORMAL_UP
22	6e-04	29 / 427	Color Quies2_Colon
23	6e-04	38 / 618	GSE# GOZGIT_ESR1_TARGETS_DN
24	6e-04	43 / 730	GSE# RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_UP
25	8e-04	16 / 184	Glio WILLSCHER_GBM_Verhaak-CL & MES_up
26	8e-04	3 / 6	GSE# MAINA_HYPOXIA_VHL_TARGETS_UP
27	9e-04	47 / 833	GSE# DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
28	9e-04	27 / 400	GSE# HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_UP
29	1e-03	35 / 569	miRN hsa-miR-20b
30	1e-03	8 / 59	GSE# ZHAN_MULTIPLE_MYELOMA_UP
31	1e-03	7 / 46	GSE# CROMER_TUMORIGENESIS_UP
32	1e-03	52 / 953	Brain Fetal_Enh
33	1e-03	351 / 9020	Brain Overlap_fetal_midbrain_ReprPCWk
34	1e-03	9 / 74	GSE# RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATELY_DN
35	1e-03	26 / 385	GSE# REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
36	1e-03	37 / 620	GSE# MILI_PSEUDOPODIA_HAPTOTAXIS_DN
37	1e-03	46 / 823	GSE# MEISSNER_BRAIN_HCP_WITH_H3K4ME3_AND_H3K27ME3
38	1e-03	349 / 8984	MF protein binding
39	1e-03	3 / 7	Glio WILLSCHER_GBM_LTSwt_proteomics-G_UP
40	1e-03	103 / 2211	Lymph HOPP_Repetitive

Overview Map

Spot



p-values



K-Means Clusters

Spot Summary: T

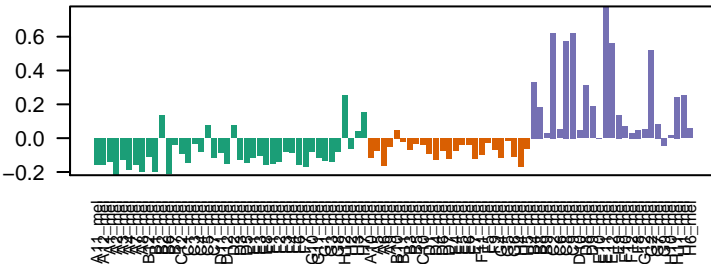
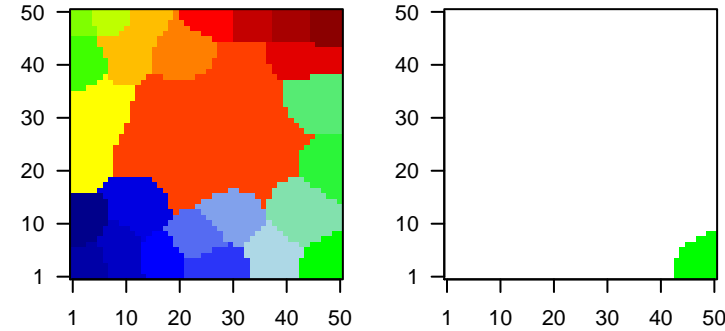
metagenes = 58
genes = 638

<r> metagenes = 0.89
<r> genes = 0.14
beta: r2= 3.35 / log p= -Inf

samples with spot = 14 (15.2 %)
MSC1 : 2 (4.8 %)
MSC3 : 12 (48 %)

Overview Map

Spot

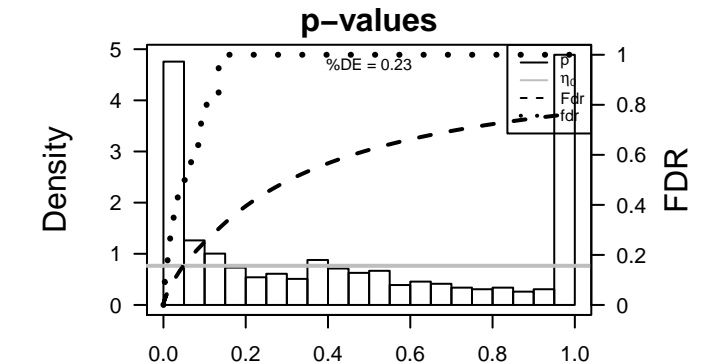


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	LUM	3.07	-0.63	0.39	LUM lumican [Source:HGNC Symbol;Acc:HGNC:6724]
2	DKK1	2.85	-0.31	0.63	DKK1 dickkopf WNT signaling pathway inhibitor 1 [Source:HGNC S
3	IL24	2.78	-0.11	0.59	IL24 interleukin 24 [Source:HGNC Symbol;Acc:HGNC:11346]
4	HBEGF	2.46	-0.25	0.53	HBEGF heparin-binding EGF-like growth factor [Source:HGNC Symt
5	ANXA1	2.44	-0.5	0.78	ANXA1 annexin A1 [Source:HGNC Symbol;Acc:HGNC:533]
6	FADS3	2.35	-0.24	0.56	FADS3 fatty acid desaturase 3 [Source:HGNC Symbol;Acc:HGNC:35
7	PTPRZ1	2.31	-0.37	0.7	PTPRZ1 protein tyrosine phosphatase, receptor-type, Z polypeptide 1
8	NAV3	2.3	-0.23	0.73	NAV3 neuron navigator 3 [Source:HGNC Symbol;Acc:HGNC:15998]
9	RGS4	2.3	-0.3	0.4	RGS4 regulator of G-protein signaling 4 [Source:HGNC Symbol;Acc
10	A2M	2.29	-0.9	0.52	A2M alpha-2-macroglobulin [Source:HGNC Symbol;Acc:HGNC:7
11	RGS2	2.26	-0.52	0.33	RGS2 regulator of G-protein signaling 2 [Source:HGNC Symbol;Acc
12	KCNJ2	2.26	-0.25	0.68	KCNJ2 potassium channel, inwardly rectifying subfamily J, member 2
13	HIST1H3D	2.25	-0.35	0.37	HIST1H3Dhistone cluster 1, H3d [Source:HGNC Symbol;Acc:HGNC:47
14	FN1	2.23	-1.04	0.4	FN1 fibronectin 1 [Source:HGNC Symbol;Acc:HGNC:3778]
15	SERPINI1	2.21	-0.56	0.39	SERPINIserpin peptidase inhibitor, clade I (neuroserpin), member 1 [S
16	LMCD1	2.2	-0.68	0.32	LMCD1 LIM and cysteine-rich domains 1 [Source:HGNC Symbol;Acc
17	VTN	2.14	-0.36	0.67	VTN vitronectin [Source:HGNC Symbol;Acc:HGNC:12724]
18	SLC40A1	2.11	-0.56	0.38	SLC40A1solute carrier family 40 (iron-regulated transporter), member
19	ARRDC3	2.09	-0.76	0.5	ARRDC3arrestin domain containing 3 [Source:HGNC Symbol;Acc:HGI
20	CAV1	2.08	-0.76	0.44	CAV1 caveolin 1, caveolae protein, 22kDa [Source:HGNC Symbol;A

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-34	90 / 472	GSE/ DUTERTRE_ESTRADIOL_RESPONSE_24HR_DN
2	6e-33	69 / 286	GSE/ PASINI_SUZ12_TARGETS_DN
3	4e-29	94 / 594	GSE/ WONG_ADULT_TISSUE_STEM_MODULE
4	2e-27	104 / 749	GSE/ CUI_TCF21_TARGETS_2_DN
5	7e-25	73 / 425	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN
6	1e-23	50 / 212	Lympi LENZ_Stromal signature 1
7	7e-21	56 / 302	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_DN
8	2e-20	93 / 761	GSE/ KOINUMA_TARGETS_OF_SMAD2_OR_SMAD3
9	2e-20	63 / 385	GSE/ REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
10	2e-20	98 / 833	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
11	6e-20	104 / 930	GSE/ NUYTEN_EZH2_TARGETS_UP
12	2e-18	39 / 168	HM HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
13	1e-17	60 / 401	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN
14	6e-17	51 / 308	CC focal adhesion
15	1e-16	66 / 494	GSE/ CHICAS_RB1_TARGETS_CONFLUENT
16	6e-16	42 / 227	GSE/ DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_UP
17	3e-15	57 / 410	GSE/ LIM_MAMMARY_STEM_CELL_UP
18	4e-15	31 / 131	Color Marisa_CRC-cluster-a
19	7e-15	56 / 406	GSE/ BAELDE_DIABETIC_NEPHROPATHY_DN
20	1e-14	42 / 245	GSE/ WANG_SMARCE1_TARGETS_UP
21	1e-14	34 / 164	GSE/ TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_UP
22	2e-14	45 / 283	GSE/ SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
23	3e-14	43 / 263	Color Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
24	4e-14	82 / 784	GSE/ BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
25	6e-14	3 / 14	Cancor LIU_PROSTATE_CANCER_DN
26	6e-14	33 / 163	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
27	2e-13	31 / 149	GSE/ PHONG_TNF_RESPONSE_VIA_P38_PARTIAL
28	2e-13	39 / 234	GSE/ LU_AGING_BRAIN_UP
29	4e-13	58 / 473	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
30	6e-13	29 / 137	HM HALLMARK_UV_RESPONSE_DN
31	7e-13	54 / 426	GSE/ ZWANG_CLASS_1_TRANSIENTLY_INDUCED_BY_EGF
32	1e-12	37 / 222	GSE/ UDAYAKUMAR_MED1_TARGETS_DN
33	2e-12	36 / 215	GSE/ BILD_HRAS_ONCOGENIC_SIGNATURE
34	2e-12	30 / 153	GSE/ WU_CELL_MIGRATION
35	3e-12	23 / 91	GSE/ BROWNE_HCMV_INFECTION_20HR_DN
36	4e-12	30 / 157	GSE/ MCBRYAN_PUBERTAL_TGFB1_TARGETS_UP
37	5e-12	34 / 200	GSE/ ZWANG_CLASS_3_TRANSIENTLY_INDUCED_BY_EGF
38	6e-12	25 / 111	GSE/ ZHU_CMV_ALL_DN
39	8e-12	70 / 683	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
40	9e-12	50 / 400	GSE/ HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_UP



Rank	p-value	#in/all	Geneset
1	0.000000	77	aging_genes_meth_UP
2	0.000000	100	HORVAILD_aging_genes_meth_DOWN
3	0.000000	100	TESCHENDORFF_age_hypermethylated

Rank	p-value	#in/all	Geneset
1	0.000000	156	PanCan_Pi3k_geneset_nanostring
2	0.000000	401	Embryo_Colonic_inflammation
3	0.000000	111	PanCan_TNFr1b_geneset_nanostring
4	0.000000	111	PanCan_TG_beta_geneset_nanostring
5	0.000000	111	PanCan_TG_beta_geneset_nanostring

Rank	p-value	#in/all	Geneset
1	0.000000	253	Marisa_CRC_cluster-a
2	0.000000	253	Marisa_CRC_cluster-b
3	0.000000	112	pancreatic_cancer_geneset_nanostring
4	0.000000	112	pancreatic_cancer_geneset_nanostring
5	0.000000	112	pancreatic_cancer_geneset_nanostring

Rank	p-value	#in/all	Geneset
1	0.000000	286	ESTRADIOL_RESPONSE_24HR_DN
2	0.000000	286	MON1L_ADULT_TASSILE_STEM_MODULE
3	0.000000	286	CDC42L1_TARGETS_OF_EPDR1_TL1_FUSION_DN
4	0.000000	286	NSAID_TARGETS_OF_EPDR1_TL1_FUSION_DN
5	0.000000	286	NSAID_TARGETS_OF_EPDR1_TL1_FUSION_DN

Rank	p-value	#in/all	Geneset
1	0.000000	286	signature 1
2	0.000000	286	Poised promoter
3	0.000000	286	Weak enhancer
4	0.000000	286	Repressed
5	0.000000	286	heterochrom

Rank	p-value	#in/all	Geneset
1	0.000000	10	PI3K_UP
2	0.000000	10	PI3K_DN
3	0.000000	10	PI3K_DN
4	0.000000	10	PI3K_DN
5	0.000000	10	PI3K_DN

Rank	p-value	#in/all	Geneset
1	0.000000	194	WIRTH_lymphoid_organs
2	0.000000	114	WIRTH_Cortex_cerebri
3	0.000000	114	WIRTH_T-cell_signature_up
4	0.000000	114	WIRTH_T-cell_signature_up
5	0.000000	114	WIRTH_T-cell_signature_up

Rank	p-value	#in/all	Geneset
1	0.000000	115	LU_BPDE_1h_DN

Rank	p-value	#in/all	Geneset
1	0.000000	626	signal_transduction
2	0.000000	626	cell_adhesion
3	0.000000	626	cell_junction_organization
4	0.000000	626	anatomical_structure_development
5	0.000000	626	cytoskeleton_organization

Rank	p-value	#in/all	Geneset
1	0.000000	202	actin_cytoskeleton
2	0.000000	202	cell_surface
3	0.000000	202	cell_junction
4	0.000000	202	cytoskeleton
5	0.000000	202	extracellular_exosome

Rank	p-value	#in/all	Geneset
1	0.000000	202	cell_death
2	0.000000	202	cell_cycle_arrest
3	0.000000	202	positive_regulation_of_apoptotic_process
4	0.000000	202	axon_guidance
5	0.000000	202	hippo_signaling

Rank	p-value	#in/all	Geneset
1	0.000000	202	epithelial_mesenchymal_transition
2	0.000000	202	cell_survival_associated
3	0.000000	202	cell_survival_associated
4	0.000000	202	cell_survival_associated
5	0.000000	202	cell_survival_associated

Rank	p-value	#in/all	Geneset
1	0.000000	202	protein_binding
2	0.000000	202	integrin_binding
3	0.000000	202	protein_binding
4	0.000000	202	actin_binding
5	0.000000	202	actin_filament_binding

Rank	p-value	#in/all	Geneset
1	0.000000	202	down
2	0.000000	202	down
3	0.000000	202	down
4	0.000000	202	down
5	0.000000	202	down

Rank	p-value	#in/all	Geneset
1	0.000000	202	down
2	0.000000	202	down
3	0.000000	202	down
4	0.000000	202	down
5	0.000000	202	down

Rank	p-value	#in/all	Geneset
1	0.000000	202	down

Rank	p-value	#in/all	Geneset
1	0.000000	202	actin_cytoskeleton
2	0.000000	202	cell_surface
3	0.000000	202	cell_junction
4	0.000000	202	cytoskeleton
5	0.000000	202	extracellular_exosome

Rank	p-value	#in/all	Geneset
1	0.000000	202	cell_death
2	0.000000	202	cell_cycle_arrest
3	0.000000	202	positive_regulation_of_apoptotic_process
4	0.000000	202	axon_guidance
5	0.000000	202	hippo_signaling

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4	0.000000	202	cell_survival_associated
5	0.000000	202	cell_survival_associated

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3	0.000000	202	protein_binding
4	0.000000	202	actin_binding
5	0.000000	202	actin_filament_binding

Rank	p-value	#in/all	Geneset
1	0.000000	202	down
2	0.000000	202	down
3	0.000000	202	down
4	0.000000	202	down
5	0.000000	202	down

Rank	p-value	#in/all	Geneset
1	0.000000	202	down
2	0.000000	202	down
3	0.000000	202	down
4	0.000000	202	down
5	0.000000	202	down

Rank	p-value	#in/all	Geneset
1	0.000000	202	down
2	0.000000	202	down
3	0.000000	202	down
4	0.000000	202	down
5	0.000000	202	down

Rank	p-value	#in/all	Geneset
1	0.000000	202	down

Rank	p-value	#in/all	Geneset
1	0.000000	202	actin_cytoskeleton
2	0.000000	202	cell_surface
3	0.000000	202	cell_junction
4	0.000000	202	cytoskeleton
5	0.000000	202	extracellular_exosome

Rank	p-value	#in/all	Geneset
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Rank	p-value	#in/all	Geneset
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4	0.000000	202	cell_survival_associated
5	0.000000	202	cell_survival_associated

Rank	p-value	#in/all	Geneset
1	0.000000	202	protein_binding
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3	0.000000	202	protein_binding
4	0.000000	202	actin_binding
5	0.000000	202	actin_filament_binding

Rank	p-value	#in/all	Geneset
1	0.000000	202	down
2	0.000000	202	down
3	0.000000	202	down
4	0.000000	202	down
5	0.000000	202	down

Rank	p-value	#in/all	Geneset
1	0.000000	202	down
2	0.000000	202	down
3	0.000000	202	down
4	0.000000	202	down
5	0.000000	202	down

Rank	p-value	#in/all	Geneset
1	0.000000	202	down
2	0.000000	202	down
3	0.000000	202	down
4	0.000000	202	down
5	0.000000	202	down

Rank	p-value	#in/all	Geneset
1	0.000000	202	down

Rank	p-value	#in/all	Geneset
1	0.000000	202	actin_cytoskeleton
2	0.000000	202	cell_surface
3	0.000000	202	cell_junction
4	0.000000	202	cytoskeleton
5	0.000000	202	extracellular_exosome

Rank	p-value	#in/all	Geneset
1	0.000000	202	cell_death
2	0.000000	202	cell_cycle_arrest
3	0.000000	202	positive_regulation_of_apoptotic_process
4	0.000000	202	axon_guidance
5	0.000000	202	hippo_signaling

Rank	p-value	#in/all	Geneset
1	0.000000	202	epithelial_mesenchymal_transition
2	0.000000	202	cell_survival_associated
3	0.000000	202	cell_survival_associated
4	0.000000	202	cell_survival_associated
5	0.000000	202	cell_survival_associated

Rank	p-value	#in/all	Geneset
1	0.000000	202	protein_binding
2	0.000000	202	integrin_binding
3	0.000000	202	protein_binding
4	0.000000	202	actin_binding
5	0.000000	202	actin_filament_binding

Rank	p-value	#in/all	Geneset
1	0.000000	202	down
2	0.000000	202	down
3	0.000000	202	down
4	0.000000	202	down
5	0.000000	202	down

Rank	p-value	#in/all	Geneset
1	0.000000	202	down
2	0.000000	202	down
3	0.000000	202	down
4	0.000000	202	down
5	0.000000	202	down

Rank	p-value	#in/all	Geneset
1	0.000000	202	down
2	0.000000	202	down
3	0.000000	202	down
4	0.000000	202	down
5	0.000000	202	down

Rank	p-value	#in/all	Geneset
1	0.000000	202	down

K-Means Clusters

Spot Summary: U

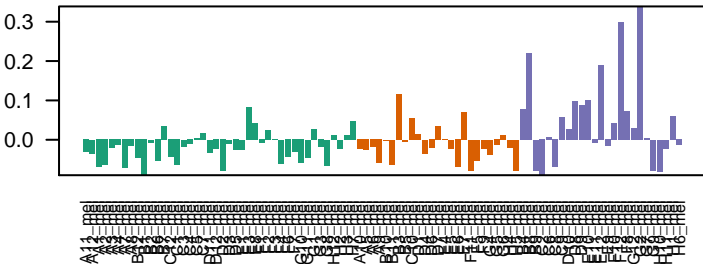
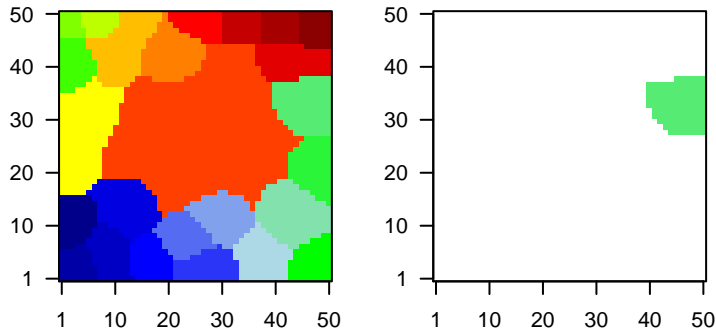
metagenes = 105
genes = 642

<r> metagenes = 0.67
<r> genes = 0.06
beta: r2= 0.56 / log p= -Inf

samples with spot = 4 (4.3 %)
MSC3 : 4 (16 %)

Overview Map

Spot

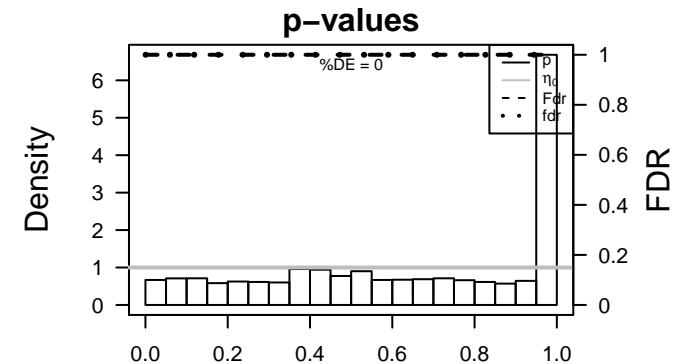


Spot Genelist

Rank	ID	max e	r	min e	Description
1	GPX3	2.45	-0.18	0.52	GPX3 glutathione peroxidase 3 [Source:HGNC Symbol;Acc:HGNC:20853]
2	P2RX7	2.1	-0.56	0.41	P2RX7 purinergic receptor P2X, ligand gated ion channel, 7 [Source:HGNC Symbol;Acc:HGNC:20853]
3	CXCL1	2.09	-0.14	0.29	CXCL1 chemokine (C-X-C motif) ligand 1 (melanoma growth stimula
4	CFAP69	2.05	-0.11	0.47	CFAP69 cilia and flagella associated protein 69 [Source:HGNC Symbc
5	NR2E3	2	-0.07	0.47	NR2E3 nuclear receptor subfamily 2, group E, member 3 [Source:HG
6	GSG1L	1.94	-0.03	0.75	GSG1L GSG1-like [Source:HGNC Symbol;Acc:HGNC:28283]
7	CD33	1.91	-0.17	0.46	CD33 CD33 molecule [Source:HGNC Symbol;Acc:HGNC:1659]
8	F13A1	1.88	-0.1	0.59	F13A1 coagulation factor XIII, A1 polypeptide [Source:HGNC Symbc
9	GALNT14	1.86	-0.24	0.42	GALNT14 polypeptide N-acetylgalactosaminyltransferase 14 [Source:H
10	OR10A2	1.85	-0.02	0.78	OR10A2 olfactory receptor, family 10, subfamily A, member 2 [Source:
11	ALOX12B	1.84	-0.08	0.66	ALOX12B arachidonate 12-lipoxygenase, 12R type [Source:HGNC Syrr
12	KLRG1	1.83	-0.25	0.3	KLRG1 killer cell lectin-like receptor subfamily G, member 1 [Source:
13	RASL11A	1.83	-0.04	0.7	RASL11A RAS-like, family 11, member A [Source:HGNC Symbol;Acc:H
14	DES	1.82	-0.02	0.76	DES desmin [Source:HGNC Symbol;Acc:HGNC:2770]
15	CLTCL1	1.81	-0.09	0.59	CLTCL1 clathrin, heavy chain-like 1 [Source:HGNC Symbol;Acc:HGNC
16	STXBP2	1.81	-0.17	0.35	STXBP2 syntaxin binding protein 2 [Source:HGNC Symbol;Acc:HGNC
17	THSD7A	1.8	-0.15	0.46	THSD7A thrombospondin, type I, domain containing 7A [Source:HGNC
18	PHF11	1.78	-0.21	0.47	PHF11 PHD finger protein 11 [Source:HGNC Symbol;Acc:HGNC:170
19	N4BP2L1	1.77	-0.12	0.33	N4BP2L1 INEDD4 binding protein 2-like 1 [Source:HGNC Symbol;Acc:H
20	SLC7A7	1.77	-0.16	0.32	SLC7A7 solute carrier family 7 (amino acid transporter light chain, y+L

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-04	5 / 13	BP positive regulation of cytokine secretion
2	4e-04	4 / 9	GSE/ AGARWAL_AKT_PATHWAY_TARGETS
3	5e-04	7 / 34	GSE/ WIERENGA_PML_INTERACTOME
4	5e-04	15 / 132	CC basolateral plasma membrane
5	6e-04	4 / 10	GSE/ REACTOME_COPI_MEDIATED_TRANSPORT
6	6e-04	5 / 17	GSE/ STEGER_ADIPOGENESIS_DN
7	6e-04	8 / 45	Colon Ang_CRC-CIMPH-vs-L_hyper
8	1e-03	28 / 350	Tissue/ WIRTH_Nervous System
9	1e-03	8 / 50	Colon Ang_CRC_Hypermethylated
10	1e-03	5 / 20	GSE/ PID_GLYPICAN_1PATHWAY
11	2e-03	121 / 2185	Brain Fetal_TssA
12	2e-03	31 / 409	BP cell motility
13	2e-03	158 / 2972	Brain Mid_Frontal_Lobe_ReprPC
14	2e-03	7 / 41	BP positive regulation of MAP kinase activity
15	2e-03	9 / 65	GSE/ REACTOME_RESPONSE_TO_ELEVATED_PLATELET_CYTOSOLIC_CA
16	2e-03	11 / 91	HM HALLMARK_PROTEIN_SECRETION
17	2e-03	4 / 13	BP COPI coating of Golgi vesicle
18	2e-03	6 / 31	GSE/ KEGG_ARACHIDONIC_ACID_METABOLISM
19	2e-03	6 / 31	GSE/ CLASPER_LYMPHATIC_VESSELS_DURING_METASTASIS_DN
20	2e-03	9 / 66	BP platelet degranulation
21	2e-03	16 / 166	MF receptor activity
22	2e-03	4 / 14	GSE/ KANG_AR_TARGETS_UP
23	2e-03	10 / 81	Lymp Subero_INT_hyper_meth
24	2e-03	3 / 7	Glio KIM_epithelial-mesenchymal-transition related genes_decreased expressi
25	2e-03	3 / 7	GSE/ MIKI_COEXPRESSED_WITH_CYP19A1
26	3e-03	5 / 23	GSE/ REACTOME_LYSOSOME_VESICLE_BIOGENESIS
27	3e-03	9 / 70	GSE/ TANAKA_METHYLATED_IN_ESOPHAGEAL_CARCINOMA
28	3e-03	6 / 35	GSE/ LIU_TARGETS_OF_VMYB_VS_CMYB_DN
29	4e-03	41 / 616	GSE/ NABA_MATRISOME
30	4e-03	5 / 25	MF aminopeptidase activity
31	4e-03	5 / 25	miRN hsa-miR-663b
32	4e-03	5 / 25	GSE/ BIOCARTA_IL1R_PATHWAY
33	4e-03	4 / 16	BP ERK1 and ERK2 cascade
34	4e-03	7 / 48	GSE/ LINDSTEDT_DENDRITIC_CELL_MATURATION_A
35	4e-03	12 / 117	GSE/ REACTOME_MEMBRANE_TRAFFICKING
36	5e-03	16 / 179	GSE/ VERHAAK_GLIOBLASTOMA_MESENCHYMAL
37	5e-03	11 / 103	Glio GIEZELT_GBM_WT_up_VS_mut
38	5e-03	117 / 2172	BP response to stress
39	5e-03	15 / 165	GSE/ ZHONG_RESPONSE_TO_AZACITIDINE_AND_TSA_UP
40	5e-03	4 / 17	MF RNA polymerase II core binding



K-Means Clusters

Spot Summary: V

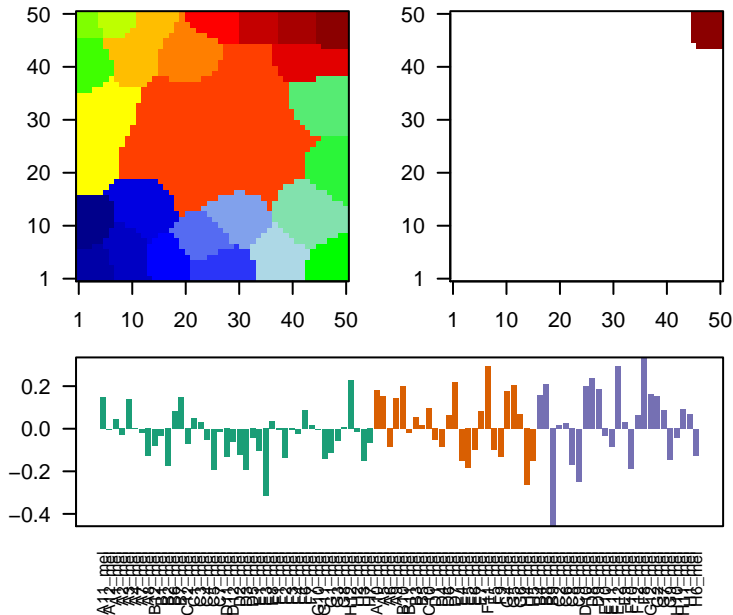
metagenes = 41
genes = 488

<r> metagenes = 0.85
<r> genes = 0.07
beta: r2= 1.71 / log p= -Inf

samples with spot = 19 (20.7 %)
MSC1 : 3 (7.1 %)
MSC2 : 7 (28 %)
MSC3 : 9 (36 %)

Overview Map

Spot

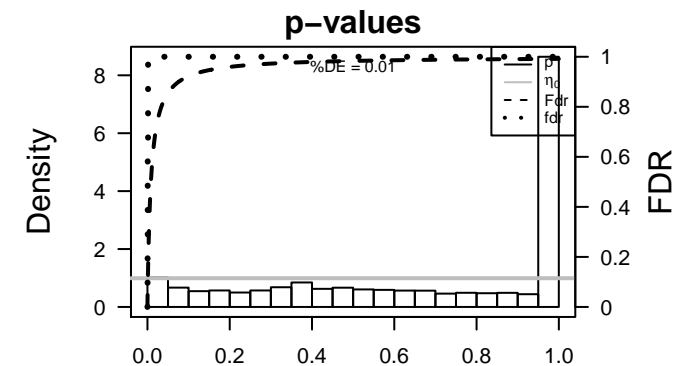


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ITIH3	2.03	-0.28	0.21	ITIH3 inter-alpha-trypsin inhibitor heavy chain 3 [Source:HGNC Sy
2	PIBF1	1.97	-0.47	0.28	PIBF1 progesterone immunomodulatory binding factor 1 [Source:HC
3	NECAB2	1.9	-0.43	0.35	NECAB2N-terminal EF-hand calcium binding protein 2 [Source:HGNC
4	LUZP6	1.88	-1.03	0.3	LUZP6 leucine zipper protein 6 [Source:HGNC Symbol;Acc:HGNC:3:
5	OAS1	1.86	-0.2	0.37	OAS1 2'-5'-oligoadenylate synthetase 1, 40/46kDa [Source:HGNC
6	CC2D2A	1.84	-0.51	0.36	CC2D2A coiled-coil and C2 domain containing 2A [Source:HGNC Syrr
7	ZFP62	1.82	-0.44	0.25	ZFP62 ZFP62 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:
8	GSDMB	1.8	-0.19	0.37	GSDMB gasdermin B [Source:HGNC Symbol;Acc:HGNC:23690]
9	GORAB	1.77	-0.45	0.34	GORAB golgin, RAB6-interacting [Source:HGNC Symbol;Acc:HGNC:
10	C1orf109	1.77	-0.59	0.29	C1orf109chromosome 1 open reading frame 109 [Source:HGNC Symt
11	GDF15	1.77	-1.15	0.38	GDF15 growth differentiation factor 15 [Source:HGNC Symbol;Acc:Hi
12	PACRGL	1.76	-0.36	0.23	PACRGL PARK2 co-regulated-like [Source:HGNC Symbol;Acc:HGNC
13	C1S	1.74	-0.17	0.44	C1S complement component 1, s subcomponent [Source:HGNC S
14	PPCDC	1.72	-0.42	0.2	PPCDC phosphopantothienoylcysteine decarboxylase [Source:HGNC
15	TMEM53	1.71	-0.39	0.29	TMEM53transmembrane protein 53 [Source:HGNC Symbol;Acc:HGNC
16	BBS4	1.71	-0.53	0.31	BBS4 Bardet-Biedl syndrome 4 [Source:HGNC Symbol;Acc:HGNC
17	CYP19A1	1.7	-0.37	0.31	CYP19A1cytochrome P450, family 19, subfamily A, polypeptide 1 [Sou
18	UGP2	1.7	-1.72	0.24	UGP2 UDP-glucose pyrophosphorylase 2 [Source:HGNC Symbol;A
19	NLRC5	1.7	-0.18	0.25	NLRC5 NLR family, CARD domain containing 5 [Source:HGNC Symb
20	VASP	1.69	-0.36	0.28	VASP vasodilator-stimulated phosphoprotein [Source:HGNC Symb

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-28	417 / 9482	Colon TssA_Colon
2	5e-24	397 / 9027	Colon Tx_Colon
3	2e-22	381 / 8580	Colon TxWk_Colon
4	1e-21	400 / 9330	Brain Overlap_fetal_midbrain_ReprPC
5	1e-20	327 / 6929	Lympl HOPP_Txn_elongation
6	1e-16	337 / 7592	Lympl HOPP_Active_promoter
7	8e-16	377 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
8	1e-15	254 / 5184	Lympl HOPP_Txn_transition
9	2e-11	339 / 8205	CC cytoplasm
10	1e-09	91 / 1468	CC mitochondrion
11	3e-09	299 / 7203	Colon TssF_Colon
12	7e-09	256 / 5940	Brain Overlap_fetal_midbrain_HetRpts
13	7e-08	22 / 176	GSE/ TIEN_INTESTINE_PROBIOTICS_24HR_DN
14	5e-07	328 / 8415	Color Quies3_Colon
15	8e-07	365 / 9653	Color Enh_Colon
16	2e-06	108 / 2136	TF ICGC_GabpPcr2_targets
17	2e-06	265 / 6564	Lympl HOPP_Strong_enhancer
18	2e-06	359 / 9528	Brain Overlap_fetal_midbrain_Quies
19	3e-06	36 / 478	GSE/ STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
20	5e-06	67 / 1171	TF KIM_MYC targets
21	6e-06	18 / 162	BP ribosome biogenesis
22	7e-06	389 / 10605	CC intracellular
23	9e-06	283 / 7209	Lympl HOPP_Weak_promoter
24	1e-05	22 / 235	GSE/ BLUM_RESPONSE_TO_SALIRASIS_UP
25	1e-05	32 / 424	GSE/ MILL_PSEUDOPODIA_CHEMOTAXIS_DN
26	1e-05	24 / 277	BP translation
27	2e-05	213 / 5155	Color EnhWk1_Colon
28	2e-05	30 / 393	GSE/ MITSIADES_RESPONSE_TO_APLIDIN_UP
29	2e-05	377 / 10290	Color TssWk_Colon
30	3e-05	44 / 706	GSE/ BENPORATH_MYC_MAX_TARGETS
31	3e-05	37 / 555	GSE/ SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_DN
32	4e-05	9 / 51	GSE/ JIANG_AGING_CEREBRAL_CORTEX_DN
33	4e-05	127 / 2798	Color TxEnhG1_Colon
34	7e-05	13 / 111	GSE/ MISSIAGLIA_REGULATED_BY_METHYLATION_UP
35	7e-05	193 / 4689	TF ICGC_Taf1_targets
36	7e-05	85 / 1730	BP small molecule metabolic process
37	9e-05	40 / 649	CC endoplasmic reticulum membrane
38	1e-04	6 / 24	GSE/ REACTOME_CYTOSOLIC_TRNA_AMINOACYLATION
39	1e-04	32 / 476	GSE/ IVANOVA_HEMATOPOIESIS_EARLY_PROGENITOR
40	1e-04	7 / 35	MF aminoacyl-tRNA ligase activity



K-Means Clusters

Spot Summary: W

metagenes = 83
genes = 537

<r> metagenes = 0.73
<r> genes = 0.09
beta: r2= 0.92 / log p= -Inf

samples with spot = 3 (3.3 %)
MSC3 : 3 (12 %)

Spot Genelist

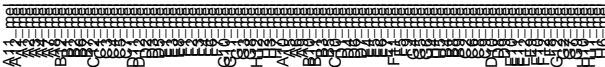
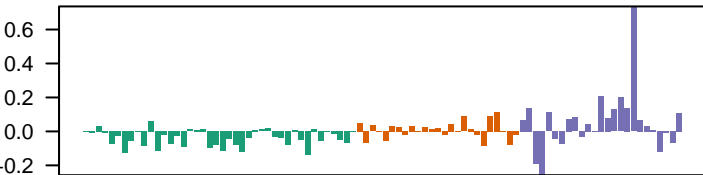
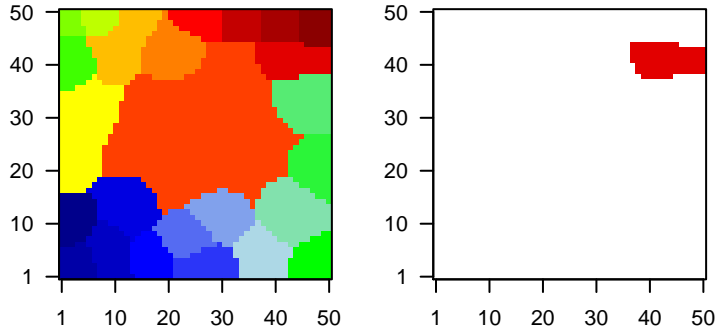
Rank	ID	max e	r	min e	Description
					Symbol
1	CCL18	2.45	-0.48	0.42	CCL18 chemokine (C-C motif) ligand 18 (pulmonary and activation-)
2	CDKL1	2.2	-0.24	0.39	CDKL1 cyclin-dependent kinase-like 1 (CDC2-related kinase) [Sour
3	PRDM6	2.01	-0.06	0.5	PRDM6 PR domain containing 6 [Source:HGNC Symbol;Acc:HGNC:9
4	MLLT10	1.93	-0.65	0.3	MLLT10 myeloid/lymphoid or mixed-lineage leukemia (trithorax homol
5	POT1	1.93	-0.64	0.29	POT1 protection of telomeres 1 [Source:HGNC Symbol;Acc:HGNC:
6	PAFAH2	1.89	-0.22	0.4	PAFAH2 platelet-activating factor acetylhydrolase 2, 40kDa [Source:H
7	ZNF287	1.87	-0.07	0.57	ZNF287 zinc finger protein 287 [Source:HGNC Symbol;Acc:HGNC:13
8	NEK11	1.84	-0.18	0.3	NEK11 NIMA-related kinase 11 [Source:HGNC Symbol;Acc:HGNC:1
9	FBXO16	1.84	-0.09	0.39	FBXO16 F-box protein 16 [Source:HGNC Symbol;Acc:HGNC:13618]
10	LIN37	1.83	-0.13	0.35	LIN37 lin-37 DREAM MuvB core complex component [Source:HGN
11	ZNF221	1.83	-0.1	0.43	ZNF221 zinc finger protein 221 [Source:HGNC Symbol;Acc:HGNC:13
12	TMEM55B	1.81	-0.24	0.38	TMEM55Btransmembrane protein 55B [Source:HGNC Symbol;Acc:HGNC
13	SLC22A1	1.81	-0.09	0.66	SLC22A1solute carrier family 22 (organic cation transporter), member
14	THBS3	1.78	-0.1	0.52	THBS3 thrombospondin 3 [Source:HGNC Symbol;Acc:HGNC:11787]
15	TBC1D19	1.77	-0.25	0.44	TBC1D19TBC1 domain family, member 19 [Source:HGNC Symbol;Acc
16	PLN	1.77	-0.35	0.37	PLN phospholamban [Source:HGNC Symbol;Acc:HGNC:9080]
17	SPTLC3	1.76	-0.07	0.57	SPTLC3 serine palmitoyltransferase, long chain base subunit 3 [Sour
18	SLC25A42	1.76	-0.06	0.63	SLC25A42solute carrier family 25, member 42 [Source:HGNC Symbol;A
19	WDR83	1.74	-0.16	0.27	WDR83 WD repeat domain 83 [Source:HGNC Symbol;Acc:HGNC:32
20	PFKFB4	1.74	-0.13	0.5	PFKFB4 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 4 [S

Geneset Overrepresentation

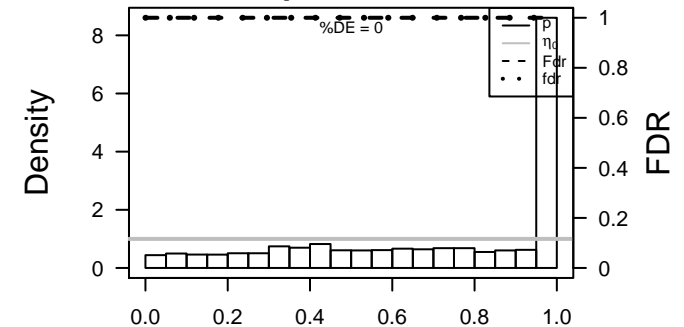
Rank	p-value	#in/all	Geneset
1	4e-06	359 / 8580	Colon TxWk_Colon
2	9e-06	383 / 9330	Brain Overlap_fetal_midbrain_ReprPC
3	2e-05	151 / 3081	Brain Mid_Frontal_Lobe_ZNF
4	4e-05	369 / 9027	Colon Tx_Colon
5	9e-05	5 / 14	BP negative regulation of proteasomal ubiquitin-dependent protein catabolic p
6	1e-04	76 / 1383	TF ICGC_Six5_targets
7	2e-04	29 / 385	GSE/ MIKKELSEN_NPC_ICP_WITH_H3K4ME3
8	6e-04	242 / 5693	Lymph HOPP_Weak_enhancer
9	6e-04	377 / 9482	Colon TssA_Colon
10	1e-03	359 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
11	1e-03	10 / 89	GSE/ ZHU_CMV_24_HR_UP
12	1e-03	35 / 568	GSE/ MIKKELSEN_ES_ICP_WITH_H3K4ME3
13	2e-03	15 / 177	GSE/ KRIEG_KDM3A_TARGETS_NOT_HYPOXIA
14	2e-03	232 / 5538	Lymph HOPP_Weak_txn
15	3e-03	6 / 40	miRN hsa-miR-518d-3p
16	3e-03	100 / 2136	TF ICGC_GabPcr2_targets
17	3e-03	39 / 683	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
18	3e-03	305 / 7592	Lymph HOPP_Active_promoter
19	3e-03	334 / 8415	Color Quies3_Colon
20	4e-03	39 / 689	Chr Chr 7
21	4e-03	8 / 70	miRN hsa-miR-375
22	4e-03	8 / 71	GSE/ KAYO_CALORIE_RESTRICTION_MUSCLE_DN
23	4e-03	5 / 30	GSE/ YANG_BREAST_CANCER_ESR1_LASER_UP
24	4e-03	4 / 19	GSE/ REACTOME_SHC_MEDIATED_CASCADE
25	4e-03	4 / 19	GSE/ TOMLINS_METASTASIS_DN
26	4e-03	290 / 7209	Lymph HOPP_Weak_promoter
27	5e-03	6 / 44	BP DNA duplex unwinding
28	5e-03	37 / 656	Brain Overlap_fetal_midbrain_EnhP
29	6e-03	10 / 108	GSE/ ZHU_CMV_ALL_UP
30	6e-03	7 / 60	GSE/ PELLICCIOTTA_HDAC_IN_ANTIGEN_PRESENTATION_UP
31	6e-03	7 / 61	GSE/ REACTOME_CYCLIN_E_ASSOCIATED_EVENTS_DURING_G1_S_TRAN
32	7e-03	6 / 47	GSE/ REACTOME_SCF_BETA_TRCP_MEDIATED_DEGRADATION_OF_EM1
33	7e-03	9 / 94	BP DNA recombination
34	7e-03	10 / 112	miRN hsa-miR-875-3p
35	7e-03	4 / 22	BP negative regulation of TOR signaling
36	7e-03	4 / 22	GSE/ BERTUCCI_INVASIVE_CARCINOMA_DUCTAL_VS_LOBULAR_UP
37	7e-03	2 / 4	GSE/ PARK_TRETINOIN_RESPONSE
38	8e-03	9 / 96	GSE/ LABBE_TARGETS_OF_TGFB1_AND_WNT3A_UP
39	8e-03	3 / 12	GSE/ MULLIGAN_NTF3_SIGNALING_VIA_INSR_AND_IGF1R_DN
40	9e-03	4 / 23	miRN hsa-miR-24-1*

Overview Map

Spot



p-values



K-Means Clusters

Spot Summary: X

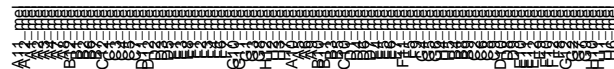
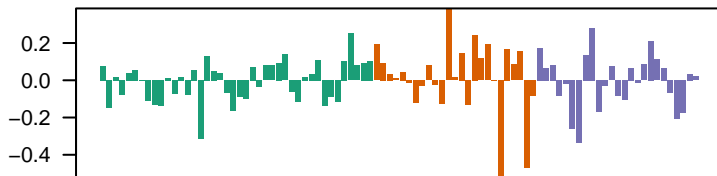
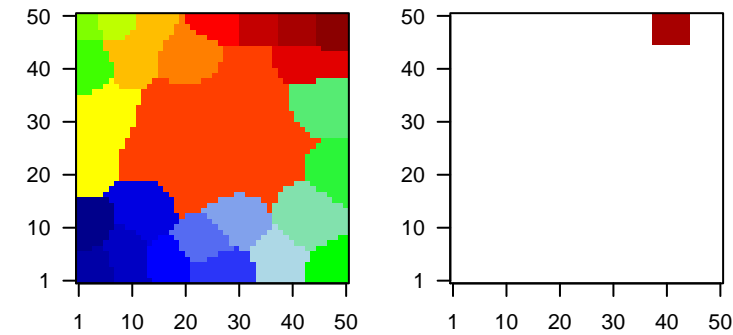
metagenes = 42
genes = 328

<r> metagenes = 0.85
<r> genes = 0.07
beta: r2= 1.45 / log p= -Inf

samples with spot = 11 (12 %)
MSC1 : 1 (2.4 %)
MSC2 : 7 (28 %)
MSC3 : 3 (12 %)

Overview Map

Spot

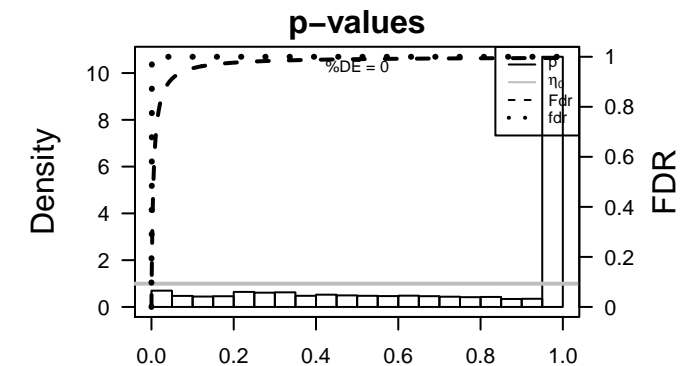


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ENO3	2.58	-1.04	0.3	ENO3 enolase 3 (beta, muscle) [Source:HGNC Symbol;Acc:HGNC:2082]
2	EML6	1.97	-0.15	0.34	EML6 echinoderm microtubule associated protein like 6 [Source:HGNC Symbol;Acc:HGNC:2082]
3	MYO1E	1.87	-0.47	0.35	MYO1E myosin IE [Source:HGNC Symbol;Acc:HGNC:7599]
4	ITLN2	1.83	-0.1	0.24	ITLN2 intelectin 2 [Source:HGNC Symbol;Acc:HGNC:20599]
5	EMC1	1.82	-0.59	0.33	EMC1 ER membrane protein complex subunit 1 [Source:HGNC Symbol;Acc:HGNC:2082]
6	WDR89	1.82	-0.36	0.26	WDR89 WD repeat domain 89 [Source:HGNC Symbol;Acc:HGNC:2082]
7	SRD5A3	1.79	-0.45	0.24	SRD5A3 steroid 5 alpha-reductase 3 [Source:HGNC Symbol;Acc:HGNC:2082]
8	EARS2	1.77	-0.56	0.34	EARS2 glutamyl-tRNA synthetase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:2082]
9	AP4M1	1.75	-0.28	0.24	AP4M1 adaptor-related protein complex 4, mu 1 subunit [Source:HGNC Symbol;Acc:HGNC:2082]
10	LIPG	1.72	-0.32	0.27	LIPG lipase, endothelial [Source:HGNC Symbol;Acc:HGNC:6623]
11	SELL	1.69	-0.16	0.33	SELL selectin L [Source:HGNC Symbol;Acc:HGNC:10720]
12	ZMYM6NB	1.68	-0.38	0.19	ZMYM6NB ZMYM6 neighbor [Source:HGNC Symbol;Acc:HGNC:40021]
13	GABRA5	1.67	-0.18	0.24	GABRA5 gamma-aminobutyric acid (GABA) A receptor, alpha 5 [Source:HGNC Symbol;Acc:HGNC:2082]
14	GULP1	1.65	-0.53	0.26	GULP1 GULP, engulfment adaptor PTB domain containing 1 [Source:HGNC Symbol;Acc:HGNC:2082]
15	PGBD2	1.63	-0.39	0.31	PGBD2 piggyBac transposable element derived 2 [Source:HGNC Symbol;Acc:HGNC:2082]
16	STK11IP	1.61	-0.17	0.35	STK11IP serine/threonine kinase 11 interacting protein [Source:HGNC Symbol;Acc:HGNC:2082]
17	SEC24D	1.59	-0.54	0.31	SEC24D SEC24 family member D [Source:HGNC Symbol;Acc:HGNC:2082]
18	LIPT1	1.57	-0.38	0.29	LIPT1 lipoyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:29569]
19	FUCA1	1.57	-0.24	0.34	FUCA1 fucosidase, alpha-L-1, tissue [Source:HGNC Symbol;Acc:HGNC:2082]
20	GPX8	1.56	-0.72	0.32	GPX8 glutathione peroxidase 8 (putative) [Source:HGNC Symbol;Acc:HGNC:2082]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-22	284 / 9330	Brain Overlap_fetal_midbrain_ReprPC
2	3e-21	285 / 9482	Colon TssA_Colon
3	3e-20	248 / 7592	Lymph HOPP_Active_promoter
4	1e-18	231 / 6929	Lymph HOPP_Txn_elongation
5	3e-11	255 / 9013	Brain Overlap_fetal_midbrain_K9K27me3
6	3e-10	215 / 7209	Lymph HOPP_Weak_promoter
7	2e-09	250 / 9027	Colon Tx_Colon
8	4e-09	183 / 5940	Brain Overlap_fetal_midbrain_HetRpts
9	5e-09	232 / 8205	CC cytoplasm
10	2e-08	163 / 5184	Lymph HOPP_Txn_transition
11	3e-08	237 / 8580	Colon TxWk_Colon
12	4e-08	233 / 8415	Colon Quies3_Colon
13	3e-07	30 / 478	GSE/ STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
14	7e-07	169 / 5693	Lymph HOPP_Weak_enhancer
15	3e-06	42 / 890	GSE/ ACEVEDO_LIVER_CANCER_UP
16	3e-06	16 / 182	GSE/ CHIANG_LIVER_CANCER_SUBCLASS_UNANNOTATED_DN
17	4e-06	20 / 277	BP translation
18	4e-06	162 / 5538	Lymph HOPP_Weak_txn
19	2e-05	17 / 235	GSE/ BLUM_RESPONSE_TO_SALIRASIB_UP
20	4e-05	244 / 9528	Brain Overlap_fetal_midbrain_Quies
21	6e-05	8 / 61	GSE/ BYSTRYKH_HEMATOPOIESIS_STEM_CELL_AND_BRAIN_QTL_CIS
22	7e-05	53 / 1400	TF ICGC_Myc_targets
23	8e-05	258 / 10290	Colon TssWk_Colon
24	9e-05	9 / 83	BP mitochondrial translational termination
25	9e-05	35 / 800	GSE/ ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACENT_TISSUE_UP
26	1e-04	30 / 659	GSE/ SCHLOSSER_SERUM_RESPONSE_DN
27	2e-04	44 / 1126	GSE/ BLALOCK_ALZHEIMERS_DISEASE_DN
28	2e-04	60 / 1701	TF HEBENSTREIT_high expression TF
29	2e-04	16 / 255	BP cellular amino acid metabolic process
30	2e-04	18 / 309	BP intracellular protein transport
31	3e-04	9 / 96	BP mitochondrial translation
32	3e-04	6 / 42	GSE/ REACTOME_TRNA_AMINOACYLATION
33	3e-04	5 / 28	GSE/ BONOME_OVARIAN_CANCER_POOR_SURVIVAL_UP
34	3e-04	39 / 993	Chr Chr 2
35	4e-04	6 / 44	BP tRNA aminoacylation for protein translation
36	4e-04	21 / 416	GSE/ SHEN_SMARCA2_TARGETS_UP
37	4e-04	11 / 147	BP tRNA metabolic process
38	4e-04	261 / 10605	CC intracellular
39	4e-04	59 / 1730	BP small molecule metabolic process
40	4e-04	48 / 1326	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP



K-Means Clusters

Spot Summary: Y

metagenes = 66
genes = 539

<r> metagenes = 0.84
<r> genes = 0.16
beta: r2= 0.61 / log p= -Inf

samples with spot = 3 (3.3 %)
MSC1 : 1 (2.4 %)
MSC3 : 2 (8 %)

Spot Genelist

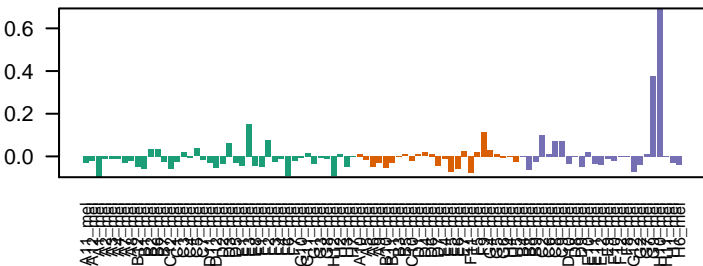
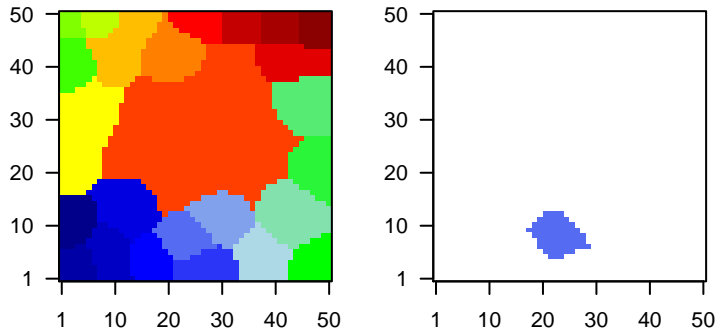
Rank	ID	max e	r	min e	Description
1	MDGA1	2.66	-0.09	0.7	MDGA1 MAM domain containing glycosylphosphatidylinositol anchor
2	UCN	2.09	-0.09	0.57	UCN urocortin [Source:HGNC Symbol;Acc:HGNC:12516]
3	FAM214A	2.08	-0.56	0.27	FAM214A family with sequence similarity 214, member A [Source:HGNC
4	DGKD	1.97	-0.29	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-ZNF20 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	STAB2	1.84	-0.04	0.28	STAB2 stabilin 2 [Source:HGNC Symbol;Acc:HGNC:18629]
16	PTPLA	1.83	-0.81	0.36	
17	AGO2	1.83	-0.49	0.27	AGO2 argonaute RISC catalytic component 2 [Source:HGNC Symb
18	HIST1H4A	1.82	-0.02	0.32	HIST1H4A histone cluster 1, H4a [Source:HGNC Symbol;Acc:HGNC:47i
19	LRP5L	1.81	-0.12	0.47	LRP5L low density lipoprotein receptor-related protein 5-like [Sourc
20	SOX9	1.79	-0.07	0.66	SOX9 SRY (sex determining region Y)-box 9 [Source:HGNC Symb

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	8e-06	4 / 5	GSE/ REACTOME_DIGESTION_OF_DIETARY_CARBOHYDRATE
2	3e-05	21 / 217	MF GTPase activator activity
3	4e-05	15 / 124	BP regulation of small GTPase mediated signal transduction
4	5e-05	4 / 7	GSE/ REACTOME_PASSIVE_TRANSPORT_BY_AQUAPORINS
5	1e-04	29 / 382	BP positive regulation of GTPase activity
6	4e-04	12 / 105	GSE/ REACTOME_SIGNALING_BY_RHO_GTPASES
7	4e-04	18 / 203	miRN hsa-miR-33a
8	4e-04	138 / 2972	Brain Mid_Frontal_Lobe_ReprPC
9	5e-04	6 / 29	GSE/ REACTOME_ION_TRANSPORT_BY_P_TYPE_ATPASES
10	7e-04	6 / 31	BP cell maturation
11	9e-04	4 / 13	GSE/ REACTOME_CELL_EXTRACELLULAR_MATRIX_INTERACTIONS
12	1e-03	9 / 74	Glio WIRTH_Normal Brain
13	2e-03	15 / 176	miRN hsa-miR-199b-3p
14	2e-03	5 / 26	GSE/ RIZ_ERYTHROID_DIFFERENTIATION_HEMGN
15	2e-03	5 / 27	BP water transport
16	2e-03	23 / 338	BP G-protein coupled receptor signaling pathway
17	3e-03	7 / 53	BP positive regulation of protein ubiquitination
18	3e-03	12 / 132	miRN hsa-miR-199b-5p
19	3e-03	9 / 83	GSE/ LEIN_CHOROID_PLEXUS_MARKERS
20	3e-03	19 / 264	GSE/ MIKKELSEN_MCV6_HCP_WITH_H3K27ME3
21	3e-03	4 / 18	MF galactosyltransferase activity
22	4e-03	6 / 42	GSE/ REACTOME_ION_CHANNEL_TRANSPORT
23	4e-03	7 / 56	BP cellular iron ion homeostasis
24	4e-03	5 / 30	Lymp Subero_INT_hypo_meth
25	4e-03	6 / 43	miRN hsa-miR-412
26	4e-03	6 / 43	GSE/ KEGG_BASAL_CELL_CARCINOMA
27	4e-03	5 / 31	GSE/ KEGG_STARCH_AND_SUCROSE_METABOLISM
28	5e-03	3 / 10	CC high-density lipoprotein particle
29	5e-03	3 / 10	MF hydrolase activity, acting on acid anhydrides, catalyzing transmembrane m
30	5e-03	3 / 10	MF lipid transporter activity
31	5e-03	3 / 10	CC vacuolar proton-transporting V-type ATPase complex
32	5e-03	4 / 20	GSE/ KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION
33	5e-03	14 / 179	GSE/ NABA_SECRETED_FACTORS
34	5e-03	5 / 32	BP O-glycan processing
35	6e-03	3 / 11	MF structural constituent of eye lens
36	6e-03	3 / 11	Lymp Subero_T-ALL_hypo_meth
37	6e-03	15 / 203	miRN hsa-miR-545
38	6e-03	10 / 111	GSE/ LINDGREN_BLADDER_CANCER_WITH_LOH_IN_CHR9Q
39	7e-03	5 / 34	BP positive regulation of interleukin-6 production
40	7e-03	64 / 1317	Color EnhP_Colon

Overview Map

Spot



p-values

