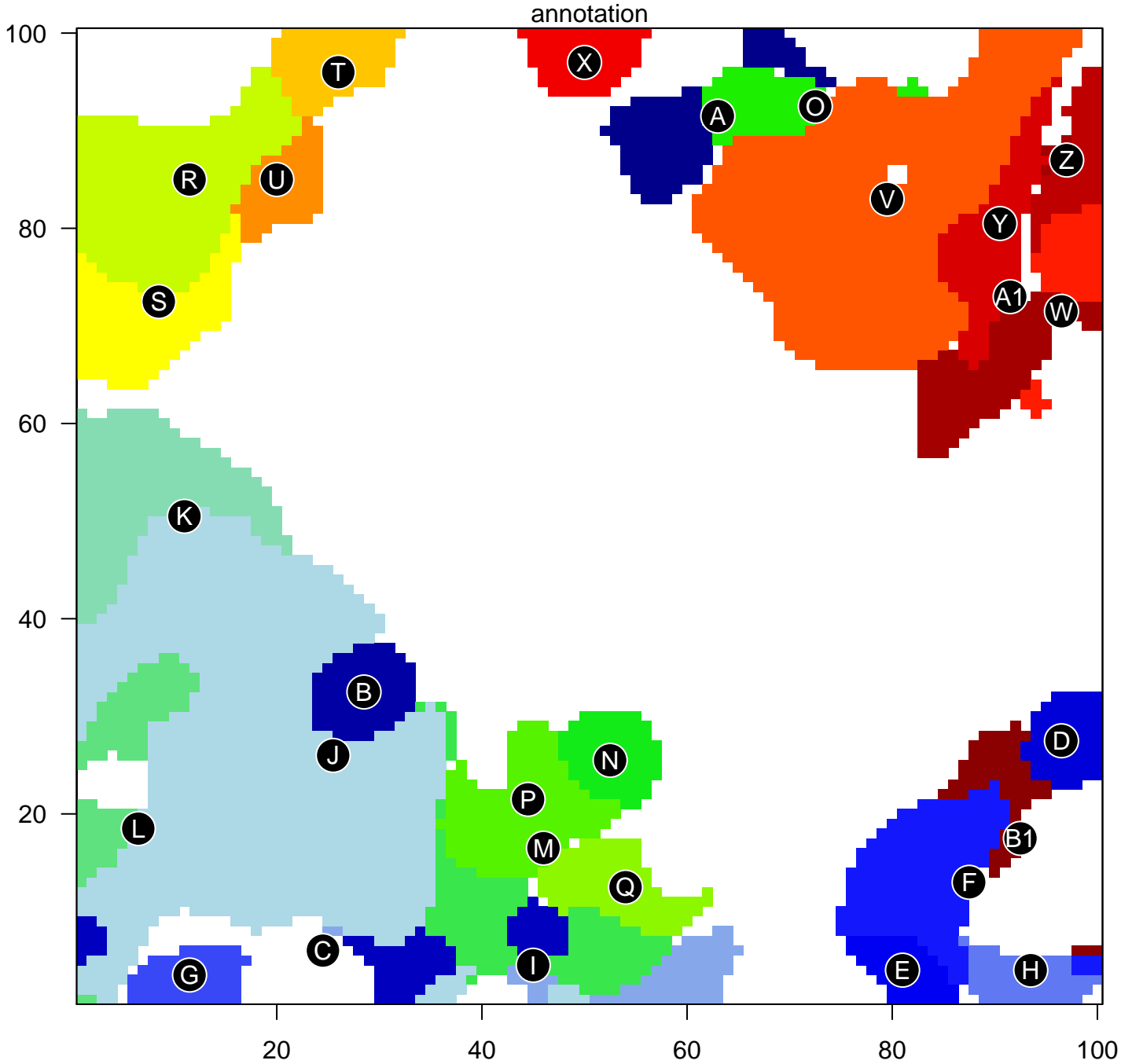


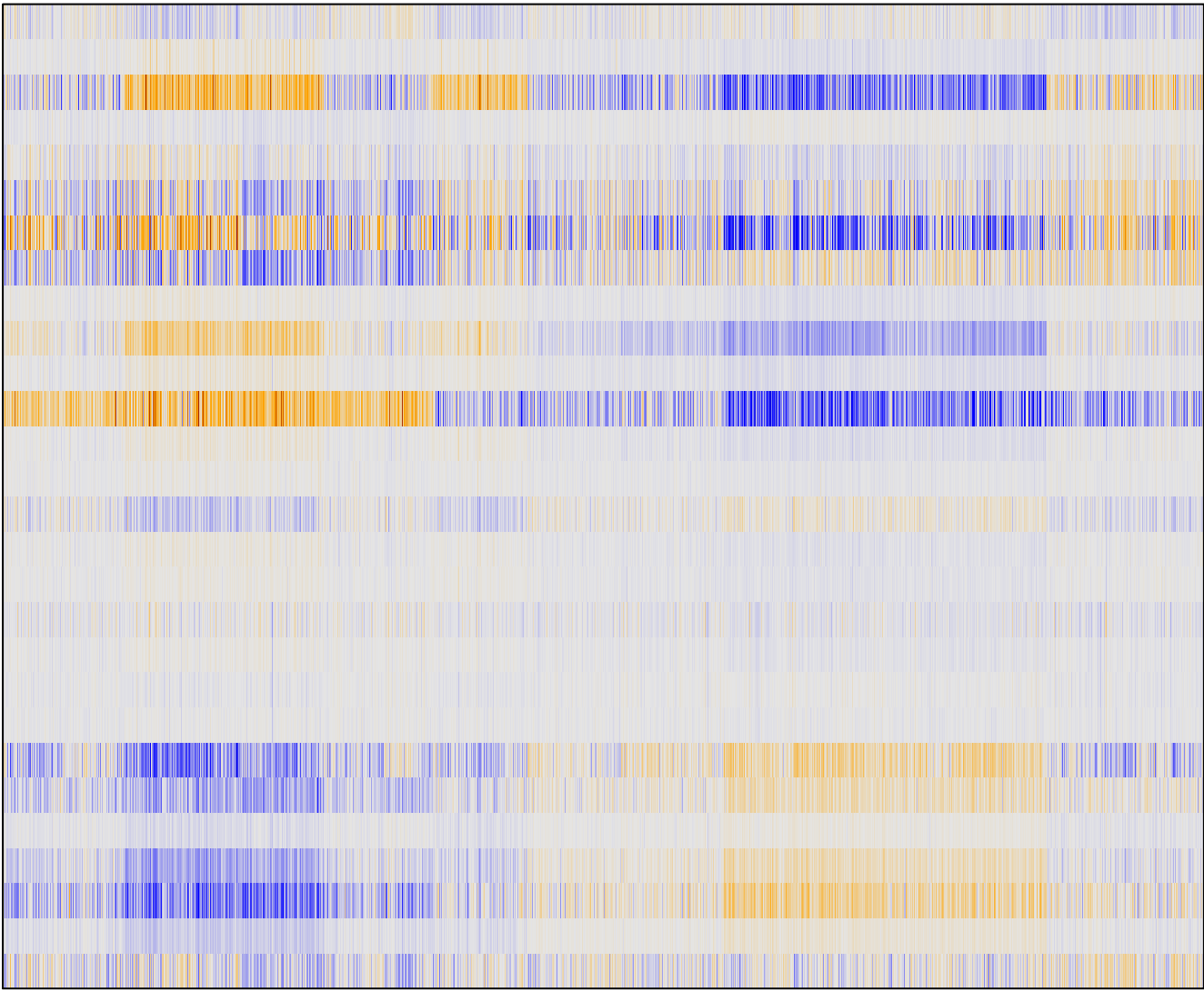
Correlation Cluster



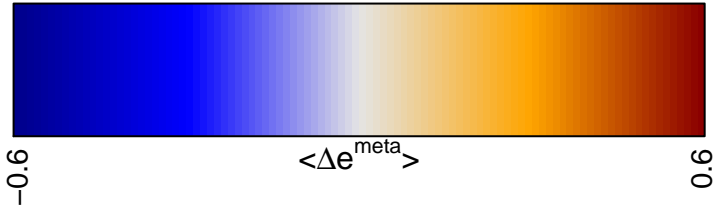
- A ■ TssF_Colon
Tx_Colon
- B ■ 8_EnhP_Fibroblasts
10_ReprPC_Fibroblasts
- C ■ Chaussabel_2,3_Erythrocytes
HALLMARK_HEME_METABOLISM
- D ■ 2_TssA_Fibroblasts
2_TssA_Melanocytes
- E ■ Chaussabel_2,2_Neutrophils
HOPP_Strong_enhancer
- F ■ Chaussabel_3,3_Inflammation II
PILON_KLF1_TARGETS_DN
- G ■ Chaussabel_2,6_Myeloid lineage
KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
- H ■ HOPP_Txn_elongation
Quies3_Colon
- I ■ MATZUK_SPERMATOZOA
WILLSCHER_GBM_LTSwt_proteomics-G_UP
- J ■ TxEnhG1_Colon
EnhA_Colon
- K ■ HOPP_Repressed
9_ReprPCWk_Melanocytes
- L ■ LU_EZH2_TARGETS_DN
Tx_Colon
- M ■ 10_ReprPC_Fibroblasts
9_ReprPCWk_Melanocytes
- N ■ regulation of G-protein coupled receptor protein signaling p
13_HetRpts_Neuronal_Progenitor
- O ■ TxWk_Colon
2_TssA_Melanocytes
- P ■ HOPP_Repressed
8_EnhP_Melanocytes
- Q ■ HOPP_Repressed
9_ReprPCWk_Melanocytes
- R ■ 1_TssP_Fibroblasts
10_ReprPC_Fibroblasts
- S ■ 11_K9K27me3_Melanocytes
9_ReprPCWk_Melanocytes
- T ■ 12_Het_Melanocytes
11_K9K27me3_Melanocytes
- U ■ 9_ReprPCWk_Melanocytes
Overlap_fetal_midbrain_TssF
- V ■ Chaussabel_2,8_T-cells
Overlap_fetal_midbrain_ReprPC
- W ■ HOPP_Txn_elongation
TxWk_Colon



A
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Y
Z
A1
B1



- TssF_Colon
- TxWk_Colon
- 8_Ehnp_Fibroblasts
- 10_ReprPC_Melanocytes
- Chaussabel_2.2_Erythrocytes
- Homulin_BMI-associated-genes_UP
- 2_TssA_Fibroblasts
- 10_ReprPC_Melanocytes
- TssWk_Colon
- Chaussabel_2.2_Neutrophils
- hsa-miR-92a_enhancer
- Chaussabel_3.3_Inflammation II
- SPANG_BCL6_index2
- Chaussabel_3.3_Myeloid lineage
- Chaussabel_3.3_Inflammation II
- HOPP_Txn_elongation
- TxWk3_Colon
- WATZUK_SPERMATOZOA
- response to cytokine
- TxEhnp1_Colon
- HOPP2_Colon
- HOPP_Repressed
- 9_ReprPCWk_Melanocytes
- 10_ReprPC_Melanocytes
- LU_EZH2_TARGETS_DN
- TxWk_Colon
- 10_ReprPC_Fibroblasts
- 9_ReprPCWk_Fibroblasts
- regulation of G-protein coupled receptor protein signaling pathway
- HOPP_Repressed
- HOPP_Repressed
- TxWk_Colon
- 7x_Colon
- 5_OPP_Repressed
- 9_ReprPCWk_Melanocytes
- HOPP_Repressed
- bicellular tight junction
- 1_TssP_Fibroblasts
- ReprPC_Fibroblasts
- Ehnp_Colon
- 31_K9K27me3_Melanocytes
- 10_ReprPC_Fibroblasts
- 12_Hel_Melanocytes
- 11_K9K27me3_Melanocytes
- ReprPCWk_Colon
- 9_ReprPCWk_Melanocytes
- 8_Ehnp_Melanocytes
- Chaussabel_2.8_T-cells
- Overlap_fetal_midbrain_ReprPC
- Chaussabel_1.7_MHC_Ribosomal proteins
- HOPP_Txn_elongation
- Tx_Colon
- metal ion binding
- DM_VEGF_VEGFR_PATHWAY
- Overlap_fetal_midbrain_ReprPC
- HOPP_Txn_elongation
- HOPP_Active_promoter
- HOPP_Txn_transition
- Overlap_fetal_midbrain_ReprPC
- 2_TssA_Melanocytes
- Chaussabel_2.8_Inflammation II
- HOPP_Weak_enhancer



Correlation Cluster

Spot Summary: A

metagenes = 116
genes = 320

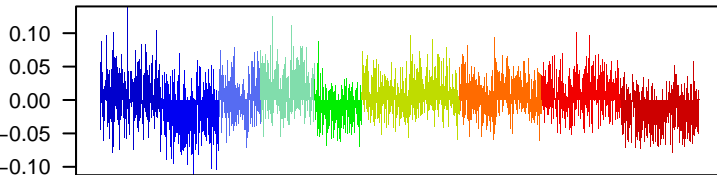
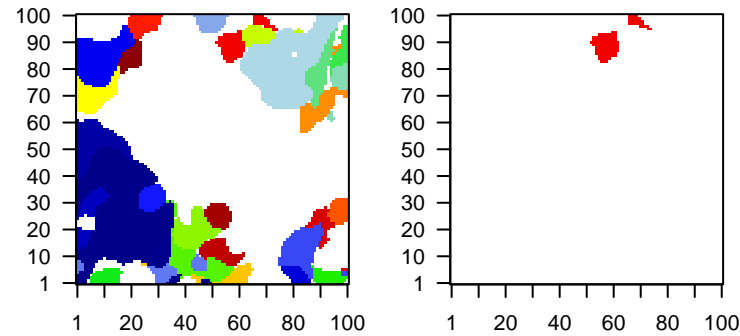
<r> metagenes = 0.92
<r> genes = 0.12
beta: r2= 2.76 / log p= -Inf

samples with spot = 65 (1.9 %)

A* : 14 (4.1 %)
AC* : 1 (0.3 %)
ACF* : 6 (2.6 %)
AF* : 17 (5.5 %)
CF* : 1 (0.4 %)
F* : 12 (2.2 %)
FJ* : 6 (1.3 %)
J* : 8 (1.8 %)

Overview Map

Spot

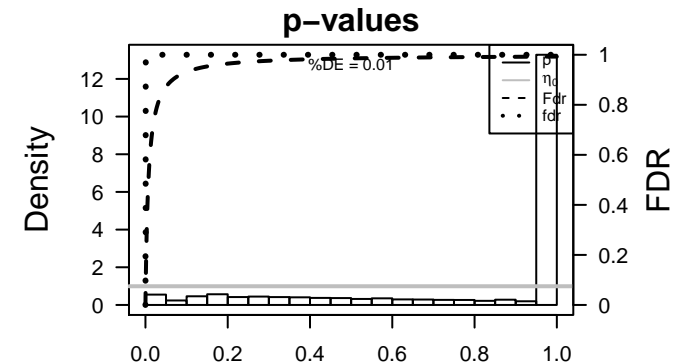


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ILMN_234304	0.75	-0.36	0.32	ABCB9 ATP binding cassette subfamily B member 9 [Source:HGNC S
2	ILMN_173820	0.69	-0.54	0.3	CISH cytokine inducible SH2 containing protein [Source:HGNC Syr
3	ILMN_166733	0.66	-0.74	0.18	
4	ILMN_185990	0.61	-0.37	0.41	TRAPPC2 trafficking protein particle complex 2 like [Source:HGNC Sym
5	ILMN_206932	0.6	-0.4	0.24	
6	ILMN_323532	0.6	-0.39	0.29	Small nucleolar RNA SNORA71 [Source:RFAM;Acc:RF00056
7	ILMN_206156	0.55	-0.4	0.36	PLCH2 phospholipase C eta 2 [Source:HGNC Symbol;Acc:HGNC:29
8	ILMN_172317	0.52	-0.41	0.65	ANAPC5 anaphase promoting complex subunit 5 [Source:HGNC Symb
9	ILMN_220505	0.52	-0.41	0.36	
10	ILMN_180314	0.51	-0.38	0.42	MIR6751 synoviolin 1 [Source:HGNC Symbol;Acc:HGNC:20738]
11	ILMN_241112	0.5	-0.38	0.2	YBEY ybeY metallopeptidase (putative) [Source:HGNC Symbol;Acc
12	ILMN_179047	0.5	-0.34	0.39	SLC25A28 solute carrier family 25 member 28 [Source:HGNC Symbol;A
13	ILMN_234304	0.49	-0.25	0.3	ABCB9 ATP binding cassette subfamily B member 9 [Source:HGNC S
14	ILMN_184692	0.49	-0.42	0.29	STK32C serine/threonine kinase 32C [Source:HGNC Symbol;Acc:HG
15	ILMN_169129	0.49	-0.33	0.38	MIR4793 cadherin EGF LAG seven-pass G-type receptor 3 [Source:H
16	ILMN_165747	0.47	-0.39	0.55	IL11RA interleukin 11 receptor subunit alpha [Source:HGNC Symbol;
17	ILMN_318753	0.47	-0.28	0.4	FAM30A family with sequence similarity 30, member A [Source:HGNC
18	ILMN_240385	0.46	-0.46	0.49	CYTH1 cytohesin 1 [Source:HGNC Symbol;Acc:HGNC:9501]
19	ILMN_173298	0.45	-0.29	0.29	ZBTB32 zinc finger and BTB domain containing 32 [Source:HGNC Sy
20	ILMN_241484	0.45	-0.35	0.61	TBRG4 transforming growth factor beta regulator 4 [Source:HGNC S

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-21	161 / 7354	Colon TssF_Colon
2	1e-17	175 / 9054	Colon Tx_Colon
3	1e-17	169 / 8568	Colon TxWk_Colon
4	8e-17	179 / 9555	Colon TssA_Colon
5	1e-16	135 / 6138	Colon TssD2_Colon
6	2e-16	179 / 9635	Chror 3_TssF_Fibroblasts
7	3e-16	215 / 12983	Chror 2_TssA_Neural_Progenitor
8	9e-15	200 / 11836	Chror 3_TssF_Melanocytes
9	6e-14	203 / 12298	Chror 2_TssA_Melanocytes
10	1e-13	171 / 9504	Brain Overlap_fetal_midbrain_K9K27me3
11	1e-13	162 / 8771	Chror 5_Tx_Melanocytes
12	1e-13	193 / 11455	Chror 2_TssA_Fibroblasts
13	3e-13	108 / 4795	Chror 6_EnhG_Fibroblasts
14	2e-12	136 / 6970	Chror 5_Tx_Neural_Progenitor
15	3e-12	147 / 7854	Chror 5_Tx_Fibroblasts
16	8e-12	181 / 10779	Color Enh_Colon
17	2e-10	117 / 5936	Brain Overlap_fetal_midbrain_HetRpts
18	5e-10	172 / 10430	Brain Overlap_fetal_midbrain_Quies
19	1e-09	150 / 8678	Color Quies3_Colon
20	2e-09	111 / 5699	Chror 6_EnhG_Melanocytes
21	5e-09	105 / 5373	Color EnhWk1_Colon
22	5e-09	191 / 12393	Chror 15_Quies_Neural_Progenitor
23	5e-09	125 / 6868	TF ICGC_Elf1_targets
24	8e-09	161 / 9815	Brain Overlap_fetal_midbrain_ReprPC
25	1e-08	112 / 5956	Chror 3_TssF_Neural_Progenitor
26	1e-08	106 / 5518	TF ICGC_Stat5_targets
27	2e-08	99 / 5067	TF ICGC_Taf1_targets
28	2e-08	89 / 4362	TF ICGC_Creb1_targets
29	3e-08	140 / 8226	Lymp HOPP_Active_promoter
30	3e-08	75 / 3450	Chror 4_TxTrans_Fibroblasts
31	2e-07	54 / 2255	TF ICGC_SrfV0416101_targets
32	3e-07	53 / 2215	TF ICGC_GabpPcr2_targets
33	3e-07	85 / 4345	TF ICGC_Zeb1_targets
34	6e-07	40 / 1478	TF ICGC_Myc_targets
35	6e-07	123 / 7247	TF ICGC_Runx3_targets
36	1e-06	85 / 4468	TF ICGC_Egr1_targets
37	1e-06	66 / 3164	Brain Mid_Frontal_Lobe_ZNF
38	2e-06	90 / 4881	TF ICGC_Atf2_targets
39	2e-06	176 / 11847	Chror 7_Enh_Neural_Progenitor
40	3e-06	97 / 5466	TF ICGC_Nficsc81335_targets



Aging Rank	p-value	#in/all	Geneset
1	1	0 / 111	HORVATH_aging_genes_meth_DOWN
2	1	0 / 142	HORVATH_aging_genes_meth_UP
3	1	0 / 58	TESCHENDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Cancer Rank	p-value	#in/all	Geneset
1	0.02	12 / 527	Lembcke_Normal vs Adenoma
2	0.02	2 / 20	PanCan_ChromMod_geneset_nanostring
3	0.02	1 / 2	GENTLES_modul0
4	0.07	2 / 36	PanCan_HK_geneset_nanostring
5	0.10	2 / 46	PanCan_DNAREpair_geneset_nanostring
6	0.13	2 / 54	KUIPER_MM_poor_survival
7	0.14	1 / 13	LIU_LIVER_CANCER
8	0.15	1 / 14	KUIPER_MM_good_survival
9	0.16	1 / 15	WOLFER_overlap_genes
10	0.25	1 / 24	PanCan_Notch_geneset_nanostring
11	0.27	0 / 14	LIU_PROSTATE_CANCER_UP
12	0.28	1 / 28	PanCan_HH_geneset_nanostring
13	0.36	1 / 38	KUIPER_MM_good_survival
14	0.42	0 / 46	PanCan_TGF-β_geneset_nanostring
15	0.46	0 / 13	RHODES_CANCER_META_SIGNATURE

Chromatin states Rank	p-value	#in/all	Geneset
1	2e-16	179 / 9635	3_TssF_Fibroblasts
2	3e-16	215 / 12983	2_TssA_Neural_Progenitor
3	9e-15	200 / 11836	3_TssF_Melanocytes
4	9e-14	203 / 12298	2_TssA_Melanocytes
5	1e-13	162 / 8771	5_Tx_Melanocytes
6	1e-13	193 / 11455	2_TssA_Fibroblasts
7	3e-13	108 / 4795	6_EnhG_Fibroblasts
8	2e-12	136 / 6970	5_Tx_Neural_Progenitor
9	3e-12	147 / 7854	5_Tx_Fibroblasts
10	2e-10	111 / 5699	5_EnhG_Melanocytes
11	5e-09	191 / 12393	15_Quies_Neural_Progenitor
12	1e-08	112 / 5956	3_TssF_Neural_Progenitor
13	3e-08	75 / 3450	4_TxTrans_Fibroblasts
14	2e-06	176 / 11847	7_Enh_Neural_Progenitor
15	7e-06	184 / 12741	7_Enh_Melanocytes

GSEA C Rank	p-value	#in/all	Geneset
1	4e-05	14 / 436	CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_UP
2	1e-04	12 / 281	GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN
3	4e-04	9 / 188	SANSOM_APC_TARGETS_REQUIRE_MYC
4	4e-04	7 / 114	FIGUEROA_AML_METHYLATION_CLUSTER_1_UP
5	9e-04	22 / 887	KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
6	1e-03	11 / 569	MAYBURD_TARGETS_IN_MUSCLE_DN
7	1e-03	16 / 569	BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_DN
8	2e-03	8 / 193	LINSLEY_MIR16_TARGETS
9	3e-03	19 / 797	KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
10	3e-03	2 / 67	REACTIONE_REGULATION_OF_THE_FANCONI_ANEMIA_PATHWAY
11	4e-03	7 / 177	HOPF_Txn_elongation
12	4e-03	2 / 127	FIGUEROA_AML_METHYLATION_CLUSTER_6_UP
13	4e-03	3 / 27	MAYBURD_RESPONSE_TO_L663536_UP
14	5e-03	7 / 179	KASLER_HDAC7_TARGETS_1_UP
15	6e-03	3 / 31	BREDEMEYER_RAG_SIGNALING_VIA_ATM_NOT_VIA_NFKB_DN

Lymphoma Rank	p-value	#in/all	Geneset
1	3e-08	140 / 8226	HOPP_Active_promoter
2	1e-07	118 / 7275	HOPP_Txn_elongation
3	8e-05	90 / 5356	HOPP_Txn_transition
4	5e-04	121 / 8098	HOPP_Weak_promoter
5	1e-03	2 / 5	MASCOQUE_mBL_UP
6	1e-03	14 / 472	Hopp_June14_MMML937_tumors+controls_group.overexpression_J_GC-B_c
7	4e-03	26 / 1270	SPANB_BCR_UP
8	5e-03	18 / 777	WIRTH_lymphoma937_spot_D
9	5e-03	13 / 493	WIRTH_lymphoma937_spot_J
10	1e-02	9 / 318	Hopp_June14_MMML937_tumors+controls_group.overexpression_H_GC-B_c
11	2e-02	9 / 331	WIRTH_lymphoma937_spot_H
12	2e-02	7 / 232	WIRTH_lymphoma937_spot_B
13	2e-02	16 / 172	Hopp_June14_MMML937_tumors+controls_group.overexpression_D_cell_line
14	4e-02	6 / 220	Hopp_June14_MMML937_tumors+controls_group.overexpression_B_cell_line
15	5e-02	100 / 7448	HOPP_Strong_enhancer

miRNA Disease Rank	p-value	#in/all	Geneset
1	1	0 / 7	Thyroid carcinoma, papillary
2	1	0 / 123	Pancreatic cancer
3	1	0 / 68	Glioblastoma multiforme, somatic
4	1	0 / 53	Gastrointestinal
5	1	0 / 3	Pituitary adenoma
6	1	0 / 116	Cancer
7	1	0 / 95	Colorectal cancer
8	1	0 / 2	Adenomas, multiple colorectal
9	1	0 / 124	Prostate cancer
10	1	0 / 48	Alzheimer disease, susceptibility to
11	1	0 / 7	Schizophrenia, susceptibility to
12	1	0 / 20	Parkinson disease
13	1	0 / 65	Hepatocellular carcinoma
14	1	0 / 7	Down syndrome, risk of
15	1	0 / 127	Melanoma and neural system tumor syndrome

Reference Signatures Rank	p-value	#in/all	Geneset
1	3e-04	10 / 221	Chaussabel_3.8_Enzymes
2	4e-02	2 / 29	Chaussabel_2.7_Unknown function
3	8e-02	12 / 647	PROTEINATLAS_lateral ventricle
4	1e-01	4 / 148	VAQUERIZAS_General_TF
5	1e-01	9 / 490	PROTEINATLAS_heart muscle
6	1e-01	1 / 13	WIRTH_Thymus
7	1e-01	3 / 113	Chaussabel_1.4_Replication
8	2e-01	1 / 14	WIRTH_Thyroid gland
9	2e-01	3 / 119	Chaussabel_2.4_Ribosomal proteins
10	2e-01	3 / 19	Chaussabel_2.6_T-cells
11	2e-01	1 / 7	VAQUERIZAS_Heart_TF
12	2e-01	3 / 132	WIRTH_Muscle
13	2e-01	3 / 139	Chaussabel_1.8_Metabolism Biosynthesis
14	2e-01	10 / 650	PROTEINATLAS_hippocampus
15	2e-01	7 / 429	PROTEINATLAS_soft tissue

BP Rank	p-value	#in/all	Geneset
1	4e-04	35 / 1643	transcription, DNA-templated
2	4e-04	4 / 31	chromatin organization
3	8e-04	3 / 16	protein O-linked mannosylation
4	2e-03	4 / 44	interstrand cross-link repair
5	2e-03	27 / 1272	regulation of transcription, DNA-templated
6	3e-03	3 / 24	tRNA modification
7	6e-03	2 / 31	protein O-linked glycosylation
8	7e-03	2 / 11	arachidonic acid secretion
9	7e-03	2 / 11	endocardial cushion development
10	8e-03	2 / 12	cytoplasmic mRNA processing body assembly
11	8e-03	2 / 12	neural retina development
12	8e-03	2 / 12	positive regulation of kinase activity
13	1e-02	3 / 38	histone H3 acetylation
14	1e-02	2 / 14	cardiac septum development
15	1e-02	4 / 75	chromatin remodeling

CC Rank	p-value	#in/all	Geneset
1	6e-04	79 / 4828	nucleus
2	3e-03	45 / 2535	nucleoplasm
3	3e-03	27 / 1304	mitochondrion
4	1e-02	2 / 14	integral component of nuclear inner membrane
5	2e-02	2 / 20	anaphase-promoting complex
6	3e-02	2 / 23	vesicle membrane
7	3e-02	2 / 24	mitochondrial ribosome
8	4e-02	3 / 67	cytoplasmic mRNA processing body
9	5e-02	3 / 69	primary cilium
10	8e-02	3 / 85	ciliary basal body
11	8e-02	4 / 138	mitochondrial outer membrane
12	8e-02	4 / 139	microtubule cytoskeleton
13	1e-03	2 / 15	brush border membrane
14	1e-01	1 / 10	chromocenter
15	1e-01	1 / 10	npBAF complex

Colon Cancer Rank	p-value	#in/all	Geneset
1	3e-21	161 / 7354	TssF_Colon
2	1e-17	175 / 9054	Tx_Colon
3	1e-17	169 / 8568	TxWk_Colon
4	8e-17	179 / 8555	TssA_Colon
5	1e-16	135 / 6138	TssD2_Colon
6	8e-12	181 / 10779	Enh_Colon
7	1e-09	150 / 8678	Quies3_Colon
8	5e-09	105 / 5373	EnhWk1_Colon
9	4e-06	31 / 1083	ZNF_Colon
10	1e-05	68 / 845	TxEnhG1_Colon
11	2e-04	43 / 2073	LaPointe_mucosa-position_kmeans_G_ascending colon_UP_t
12	4e-04	156 / 10999	TssWk_Colon
13	9e-04	137 / 9530	LaPointe_mucosa-position_kmeans_F_ascending colon_UP_t
14	3e-03	49 / 2810	EnhA_Colon
15	4e-03	29 / 1468	LaPointe_mucosa-position_kmeans_E_ascending colon_UP_transverse colc

HM Rank	p-value	#in/all	Geneset
1	0.009	4 / 168	HALLMARK_CHESTEROLD_HOMEOSTASIS
2	0.078	4 / 138	HALLMARK_FATTY_ACID_METABOLISM
3	0.131	2 / 54	HALLMARK_MYC_TARGETS_V2
4	0.144	4 / 173	HALLMARK_E2F_TARGETS
5	0.289	1 / 29	HALLMARK_NOTCH_SIGNALING
6	0.338	3 / 186	HALLMARK_SIGNALING_UP
7	0.370	3 / 186	HALLMARK_ESTROGEN_RESPONSE_LATE
8	0.370	3 / 186	HALLMARK_MYOGENESIS
9	0.370	3 / 186	HALLMARK_IL2_STAT5_SIGNALING
10	0.375	1 / 40	HALLMARK_WNT_BETA_CATENIN_SIGNALING
11	0.427	2 / 127	HALLMARK_COAGULATION
12	0.566	2 / 122	HALLMARK_ALLOGRAFT_REJECTION
13	0.632	1 / 85	HALLMARK_INTERFERON_ALPHA_RESPONSE
14	0.632	2 / 183	HALLMARK_APICAL_JUNCTION
15	0.638	2 / 185	HALLMARK_P53_PATHWAY

Melanoma Rank	p-value	#in/all	Geneset
1	1	0 / 30	Hugo_melanoma-all-MET_UP
2	1	0 / 54	Hugo_melanoma-all-MET_DN
3	0.053	0 / 43	Hugo_melanoma-BRAFmut-MET_UP
4	0 / 9	0 / 9	Hugo_melanoma-BRAFmut-MET_DN
5	1	0 / 27	Hugo_melanoma-all-LEF1_UP
6	1	0 / 8	Hugo_melanoma-BRAFmut-LEF1_UP
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

miKNA target Rank	p-value	#in/all	Geneset
1	0.006	4 / 63	hsa-miR-518c*
2	0.022	4 / 91	hsa-miR-425
3	0.027	2 / 22	hsa-miR-1288
4	0.049	3 / 70	hsa-miR-193b
5	0.054	4 / 121	hsa-miR-421
6	0.060	4 / 126	hsa-miR-223
7	0.068	1 / 6	hsa-miR-1281
8	0.076	2 / 39	hsa-miR-517
9	0.083	2 / 41	hsa-miR-423-3p
10	0.083	2 / 41	hsa-miR-516a-3p
11	0.090	2 / 43	hsa-miR-661
12	0.097	2 / 45	hsa-miR-766
13	0.101	2 / 46	hsa-miR-658
14	0.105	3 / 97	hsa-miR-526a
15	0.108	2 / 48	hsa-miR-346

Telomeres Rank	p-value	#in/all	Geneset
1	0.004	3 / 27	Nabetani_alt_ten_telomeres_genes_ko
2	1.000	0 / 13	Alternative lengthening of telomeres
3	NA	0 / 0	
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Brain Rank	p-value	#in/all	Geneset
1	1e-13	171 / 9504	Overlap_fetal_midbrain_K9K27me3
2	1e-13	117 / 5936	Overlap_fetal_midbrain_HetRpts
3	5e-10	172 / 10430	Overlap_fetal_midbrain_Quies
4	8e-09	161 / 9815	Overlap_fetal_midbrain_ReprPC
5	1e-06	66 / 3164	Mid_Frontal_Lobe_ZNF
6	5e-04	21 / 796	Overlap_fetal_midbrain_ZNF
7	4e-04	148 / 9917	Overlap_fetal_midbrain_ReprPCWk
8	5e-04	12 / 328	Fetal_Het
9	1e-03	35 / 1728	Fetal_ReprPCWk
10	9e-03	45 / 2709	Mid_Frontal_Lobe_HetRpts
11	3e-02	18 / 937	Fetal_EnhG
12	3e-02	14 / 681	Overlap_fetal_midbrain_EnhP
13	3e-02	16 / 818	Mid_Frontal_Lobe_Het
14	6e-02	5 / 180	Overlap_fetal_midbrain_Het
15	7e-02	12 / 630	Mid_Frontal_Lobe_EnhP

Chr Rank	p-value	#in/all	Geneset
1	0.01	13 / 536	Chr 22
2	0.02	8 / 289	Chr 21
3	0.04	23 / 19	Chr 19
4	0.15	15 / 959	Chr 16
5	0.19	12 / 768	Chr 14
6	0.19	12 / 769	Chr 15
7	0.29	19 / 1411	Chr 11
8	0.30	9 / 613	Chr 20
9	0.32	13 / 954	Chr 9
10	0.37	12 / 904	Chr 10
11	0.38	15 / 1160	Chr 12
12	0.50	14 / 1170	Chr 7
13	0.56	10 / 1217	Chr 3
14	0.61	10 / 902	Chr 4
15	0.73	10 / 994	Chr X

Glio Rank	p-value	#in/all	Geneset
1	1e-04	39 / 1777	Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
2	4e-04	41 / 2043	Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
3	9e-03	4 / 69	WILLSCHER_GBM_Verhaak-PNwt & MES_up
4	3e-02	4 / 100	GIEZELT_GBM_STS_down_VS_LTS
5	3e-02	1 / 3	WILLSCHER_GBM_Verhaak-PN (mut&wt)_up (L)
6	6e-02	2 / 35	WIRTH_PN subtype
7	7e-02	1 / 6	laffaire_hypometh_LGG_vs_control
8	9e-02	3 / 89	GIEZELT_GBM_STSwt_up_VS_LTSwt
9	9e-02	1 / 8	Sturm_GBM_Meth_overexpression_C_G34_UP
10	3e-01	3 / 110	GIEZELT

Correlation Cluster

Spot Summary: B

metagenes = 81
genes = 359

<r> metagenes = 0.96
<r> genes = 0.08
beta: r2= 0.66 / log p= -Inf

samples with spot = 39 (1.2 %)
A C * : 19 (5.8 %)
A C F * : 13 (5.5 %)
C F * : 6 (2.3 %)
N * : 1 (0.2 %)

Spot Genelist

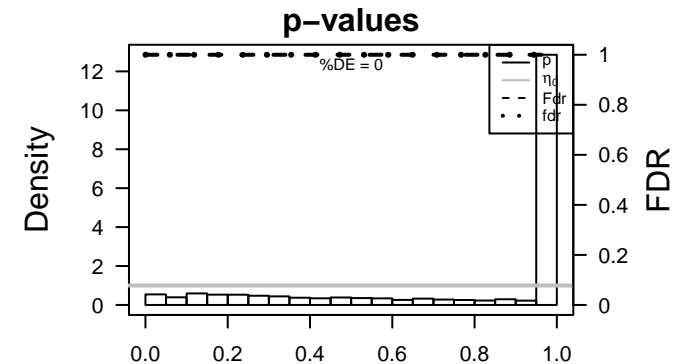
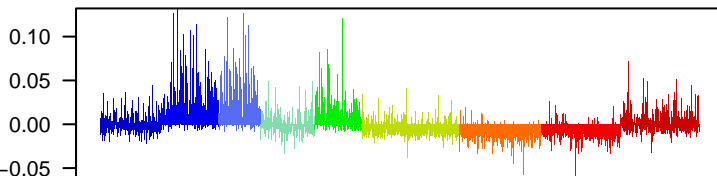
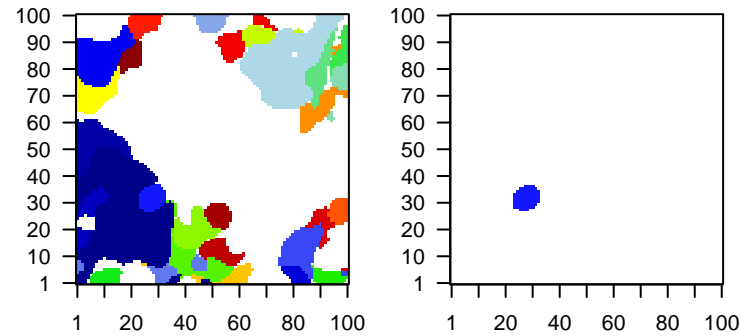
Rank	ID	max e	r	min e	Description
					Symbol
1	ILMN_324031	0.43	-0.23	0.56	SCX scleraxis bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:10000]
2	ILMN_169884	0.41	-0.23	0.19	SLC8A2 solute carrier family 8 member A2 [Source:HGNC Symbol;Acc:HGNC:10000]
3	ILMN_176126	0.41	-0.3	0.54	MPI mannose phosphate isomerase [Source:HGNC Symbol;Acc:HGNC:10000]
4	ILMN_170878	0.39	-0.33	0.41	MFAP3 microfibrillar associated protein 3 [Source:HGNC Symbol;Acc:HGNC:10000]
5	ILMN_172379	0.38	-0.29	0.51	PALB2 partner and localizer of BRCA2 [Source:HGNC Symbol;Acc:HGNC:10000]
6	ILMN_171944	0.37	-0.24	0.55	DLCK2 doublecortin like kinase 2 [Source:HGNC Symbol;Acc:HGNC:10000]
7	ILMN_171582	0.36	-0.24	0.55	FBXO16 F-box protein 16 [Source:HGNC Symbol;Acc:HGNC:13618]
8	ILMN_180525	0.36	-0.23	0.47	cell division cycle 14C, pseudogene [Source:HGNC Symbol;Acc:HGNC:10000]
9	ILMN_167495	0.35	-0.23	0.59	SCP2 sterol carrier protein 2 [Source:HGNC Symbol;Acc:HGNC:10000]
10	ILMN_179226	0.35	-0.24	0.18	TRIM4 tripartite motif containing 4 [Source:HGNC Symbol;Acc:HGNC:10000]
11	ILMN_212956	0.35	-0.23	0.51	LDLRAD3 low density lipoprotein receptor class A domain containing 3 [Source:HGNC Symbol;Acc:HGNC:10000]
12	ILMN_175976	0.34	-0.19	0.56	CTXN1 cortixin 1 [Source:HGNC Symbol;Acc:HGNC:31108]
13	ILMN_176615	0.34	-0.27	0.21	
14	ILMN_240575	0.34	-0.24	0.51	VAMP1 vesicle associated membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:10000]
15	ILMN_180579	0.34	-0.22	0.42	TRIO trio Rho guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:10000]
16	ILMN_171695	0.34	-0.2	0.53	C1QL1 complement C1q like 1 [Source:HGNC Symbol;Acc:HGNC:24000]
17	ILMN_181439	0.34	-0.21	0.46	
18	ILMN_172207	0.33	-0.21	0.56	APOC3 apolipoprotein C3 [Source:HGNC Symbol;Acc:HGNC:610]
19	ILMN_324559	0.32	-0.19	0.45	MIR1247DIO3 opposite strand/antisense RNA (head to head) [Source:HGNC Symbol;Acc:HGNC:10000]
20	ILMN_165785	0.32	-0.21	0.54	ACTL6B actin like 6B [Source:HGNC Symbol;Acc:HGNC:160]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-13	81 / 3068	Chror 8_EnhP_Fibroblasts
2	3e-11	94 / 4169	Chror 10_ReprPC_Fibroblasts
3	7e-11	82 / 3438	Chror 10_ReprPC_Melanocytes
4	5e-10	90 / 4107	Chror 9_ReprPCWk_Fibroblasts
5	1e-09	75 / 3173	Colon ReprPC_Colon
6	7e-09	66 / 2740	Colon ReprPCWk_Colon
7	5e-07	99 / 5384	Lymph HOPP_Repressed
8	2e-06	46 / 1895	Colon EnhP_Colon
9	2e-06	58 / 2660	Chror 8_EnhP_Melanocytes
10	4e-06	81 / 4304	Chror 9_ReprPCWk_Melanocytes
11	6e-06	60 / 2894	Colon TssP_Colon
12	2e-05	41 / 1753	TF HEBENSTREIT_low expression TF
13	2e-05	69 / 3639	Chror 1_TssP_Fibroblasts
14	2e-05	36 / 1476	Brain Overlap_fetal_midbrain_TxTrans
15	3e-05	41 / 1789	Chror 8_EnhP_Neural_Progenitor
16	5e-05	48 / 2297	Chror 10_ReprPC_Neural_Progenitor
17	1e-04	14 / 364	GSE/ MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP
18	1e-04	13 / 325	GSE/ MEISSNER_NPC_HCP_WITH_H3K4ME2_AND_H3K27ME3
19	2e-04	64 / 3523	Chror 1_TssP_Melanocytes
20	2e-04	21 / 746	GSE/ MARTENS_TRETINOIN_RESPONSE_UP
21	3e-04	27 / 1119	Brain Overlap_fetal_midbrain_TssA
22	4e-04	65 / 3691	Chror 9_ReprPCWk_Neural_Progenitor
23	4e-04	39 / 1893	Brain Overlap_fetal_midbrain_TssF
24	5e-04	4 / 32	CC photoreceptor connecting cilium
25	5e-04	3 / 14	MF glycine binding
26	5e-04	3 / 14	BP regulation of short-term neuronal synaptic plasticity
27	6e-04	15 / 478	Refer WIRTH_Nervous System
28	6e-04	23 / 924	Brain Mid_Frontal_Lobe_TssF
29	6e-04	16 / 536	GSE/ MIKKELSEN_MEF_HCP_WITH_H3K27ME3
30	7e-04	4 / 35	CC photoreceptor inner segment
31	9e-04	53 / 2939	Lymph HOPP_Poised_promoter
32	1e-03	12 / 366	Colon K9K27me3_Colon
33	2e-03	14 / 476	MF sequence-specific DNA binding
34	2e-03	53 / 3046	Brain Fetal_TssA
35	2e-03	47 / 2620	Chror 1_TssP_Neural_Progenitor
36	2e-03	4 / 46	BP skeletal muscle tissue development
37	2e-03	23 / 1021	GSE/ BENPORATH_ES_WITH_H3K27ME3
38	2e-03	5 / 79	BP neuropeptide signaling pathway
39	2e-03	5 / 79	BP regulation of membrane potential
40	3e-03	28 / 1360	Brain Mid_Frontal_Lobe_TssP

Overview Map

Spot



Aging Rank	p-value	#in/all	Geneset
1	0.03	5 / 142	HHTH_aging_genes_meth UP
2	0.03	3 / 48	TSCCHENDORFF_age_hypermethylated
3	0.73	1 / 111	HORVATH_aging_genes_meth DOWN
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Cancer Rank	p-value	#in/all	Geneset
1	0.06	3 / 76	PanCan_Wnt_geneset_nanostring
2	0.10	4 / 150	PanCan_MAPK_geneset_nanostring
3	0.13	1 / 12	LIU_BREAST_CANCER
4	0.15	1 / 14	GENTLES_modul1
5	0.16	1 / 15	WANG_ER_UP
6	0.17	1 / 16	GENTLES_modul16
7	0.21	3 / 136	PanCan_RAS_geneset_nanostring
8	0.25	3 / 124	PanCan_Notch_geneset_nanostring
9	0.27	0 / 14	LIU_PROSTATE_CANCER_UP
10	0.28	1 / 28	PanCan_HH_geneset_nanostring
11	0.31	0 / 13	LIU_LIVER_CANCER
12	0.42	1 / 46	PanCan_TGF-B_geneset_nanostring
13	0.53	0 / 14	LIU_COMMON_CANCER_GENES
14	0.59	0 / 15	LIU_PROSTATE_CANCER_DN
15	0.62	1 / 82	PanCan_JAK-ST_geneset_nanostring

Chromatin states Rank	p-value	#in/all	Geneset
1	5e-13	81 / 3068	8_EnhP_Fibroblasts
2	3e-11	94 / 4169	10_ReprPC_Fibroblasts
3	7e-11	82 / 3438	10_ReprPC_Melanocytes
4	5e-10	90 / 4107	9_ReprPCWk_Fibroblasts
5	2e-06	58 / 2660	8_EnhP_Melanocytes
6	4e-06	81 / 4304	9_ReprPCWk_Melanocytes
7	2e-05	69 / 3639	1_TssP_Fibroblasts
8	3e-05	41 / 1789	8_EnhP_Neural_Progenitor
9	5e-05	48 / 2297	10_ReprPC_Neural_Progenitor
10	1e-03	64 / 3523	1_TssP_Melanocytes
11	4e-04	65 / 3691	9_ReprPCWk_Neural_Progenitor
12	2e-03	47 / 2620	1_TssP_Neural_Progenitor
13	3e-02	40 / 2516	11_K9K27me3_Melanocytes
14	8e-02	151 / 11847	7_EnhP_Neural_Progenitor
15	1e-01	34 / 2315	13_HetRpts_Melanocytes

GSEA C Rank	p-value	#in/all	Geneset
1	1e-04	14 / 364	MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP
2	1e-04	13 / 325	MEISSNER_NPC_HCP_WITH_H3K4ME2_AND_H3K27ME3
3	2e-04	21 / 746	MARTENS_TRETINOIN_RESPONSE_UP
4	6e-04	16 / 536	MIKKELSEN_MEF_HCP_WITH_H3K27ME3
5	2e-03	23 / 1021	BENPORATH_ES_WITH_H3K27ME3
6	3e-03	3 / 204	MIKKELSEN_MEF_HCP_WITH_H3_UNMETHYLATED
7	4e-03	21 / 956	BENPORATH_SUZ12_TARGETS
8	5e-03	2 / 9	REACTOME_GLYCOPROTEIN_HORMONES
9	5e-03	4 / 58	MIKKELSEN_ES_HCP_WITH_H3_UNMETHYLATED
10	5e-03	21 / 962	BENPORATH_EED_TARGETS
11	5e-03	15 / 598	BENPORATH_PR2_TARGETS
12	5e-03	6 / 134	LEE_NEURAL_CREB1_STEM_CELL_UP
13	5e-03	3 / 30	REACTOME_REGULATION_OF_BETA_CELL_DEVELOPMENT
14	5e-03	11 / 379	ZHOU_INFLAMMATORY_RESPONSE_LPS_UP
15	6e-03	9 / 278	IVANOVA_HEMATOPOIESIS_STEM_CELL_LONG_TERM

Lymphoma Rank	p-value	#in/all	Geneset
1	5e-07	99 / 5384	HOPP_Repressed
2	3e-02	53 / 2939	HOPP_Poised_promoter
3	1e-02	4 / 74	HOPP_June14_MMML937_tumors+controls_group.overexpression_ILM_mBL_C
4	1e-02	4 / 74	WIRTH_lymphoma937_spot_1M
5	4e-02	10 / 450	HOPP_June14_MMML937_tumors+controls_group.overexpression_ILM_GC
6	5e-02	3 / 70	LEE_Developmental_regulators
7	1e-01	9 / 464	WIRTH_lymphoma937_spot_1
8	1e-01	1 / 12	DAVE_BL_DN
9	1e-01	1 / 13	Care_Polarized immune response
10	2e-01	7 / 408	TARTE_Mature plasma cell signature
11	2e-01	1 / 21	ROSLOWSKI_red UP
12	3e-01	2 / 88	ROSLOWSKI_red total
13	3e-01	1 / 28	DAVE Immune response 1
14	3e-01	35 / 2701	HOPP_Repetitive
15	3e-01	2 / 103	HOPP_June14_MMML937_tumors+controls_group.overexpression_MM_MM_L

miRNA Disease Rank	p-value	#in/all	Geneset
1	0.01	3 / 41	Melanoma, cutaneous malignant, 2
2	0.18	1 / 17	Thyroid carcinoma, follicular
3	0.19	1 / 18	Non-Hodgkin lymphoma, somatic
4	0.28	1 / 28	Immunological
5	0.38	1 / 40	Medulloblastoma
6	0.43	1 / 48	Multiple myeloma
7	0.50	2 / 142	Lung cancer
8	0.54	1 / 65	Hepatocellular carcinoma
9	0.55	1 / 68	Glioblastoma multiforme, somatic
10	0.58	1 / 73	Stroke, susceptibility to
11	0.67	1 / 95	Colorectal cancer
12	0.70	1 / 102	Leukemia
13	0.74	1 / 113	Ovarian cancer
14	0.75	1 / 116	Cancer
15	0.76	1 / 120	Hematological

Reference Signatures Rank	p-value	#in/all	Geneset
1	6e-04	15 / 478	WIRTH_Nervous System
2	4e-03	2 / 8	VAQUERIZAS_Tongue_TF
3	7e-03	4 / 64	VAQUERIZAS_Lung_TF
4	1e-02	3 / 40	VAQUERIZAS_Thyroid_TF
5	1e-02	2 / 16	VAQUERIZAS_Fetal thyroid_TF
6	2e-02	3 / 48	WIRTH_Pancreas
7	2e-02	3 / 49	JONGENEEL_Retina
8	3e-02	2 / 25	VAQUERIZAS_Adrenal cortex_TF
9	1e-01	1 / 10	VAQUERIZAS_Skeletal muscle_TF
10	1e-01	3 / 107	WIRTH_Liver
11	1e-01	1 / 12	VAQUERIZAS_Skin_TF
12	1e-01	1 / 13	WIRTH_Thymus
13	1e-01	1 / 13	JONGENEEL_Thyroid
14	2e-01	5 / 242	Chaussabel_3.9_Kinases
15	2e-01	1 / 16	VAQUERIZAS_Ovary_TF

BP Rank	p-value	#in/all	Geneset
1	5e-04	3 / 14	regulation of short-term neuronal synaptic plasticity
2	1e-03	4 / 46	skeletal muscle tissue development
3	2e-03	5 / 79	neuroepitaxial signaling pathway
4	2e-03	5 / 79	regulation of membrane potential
5	6e-03	3 / 31	pituitary gland development
6	6e-03	14 / 550	positive regulation of transcription, DNA-templated
7	6e-03	2 / 11	multicellular organismal response to stress
8	6e-03	2 / 10	neuromuscular process controlling posture
9	6e-03	2 / 10	positive regulation of myelination
10	6e-03	2 / 10	regulation of dendrite development
11	6e-03	7 / 185	visual perception
12	7e-03	2 / 11	positive regulation of astrocyte differentiation
13	8e-03	2 / 12	sensory perception of light stimulus
14	9e-03	9 / 297	nervous system development
15	9e-03	4 / 69	dephosphorylation

CC Rank	p-value	#in/all	Geneset
1	5e-04	4 / 32	photoreceptor connecting cilium
2	7e-04	4 / 35	photoreceptor inner segment
3	1e-03	14 / 524	intracellular
4	4e-03	5 / 88	keratin filament
5	4e-03	3 / 27	heterochromatin
6	1e-02	2 / 14	CuI4-RING E3 ubiquitin ligase complex
7	1e-02	11 / 423	cell junction
8	1e-02	52 / 3291	integral component of membrane
9	1e-02	2 / 16	photoreceptor disc membrane
10	2e-02	7 / 220	synapse
11	2e-02	2 / 21	excitatory synapse
12	3e-02	2 / 22	I band
13	3e-02	6 / 186	postsynaptic membrane
14	3e-02	8 / 310	dendrite
15	3e-02	7 / 256	apical plasma membrane

Colon Cancer Rank	p-value	#in/all	Geneset
1	1e-09	75 / 3173	ReprPC_Colon
2	7e-09	66 / 2740	ReprPCWk_Colon
3	2e-06	46 / 1895	EnhP_Colon
4	6e-06	60 / 2894	TssP_Colon
5	1e-03	12 / 366	K9K27me3_Colon
6	5e-03	12 / 425	Lembcke_TCGA_meth_kmeans_E_CIMP_H_UP
7	5e-03	16 / 663	Lembcke_TCGA_expr_kmeans_L_CIMP_H_UP_Cluster4_DN
8	9e-03	9 / 299	Lembcke_TCGA_meth_kmeans_A_Cluster4_DN
9	1e-02	16 / 713	Lembcke_TCGA_expr_kmeans_H_CIMP_H_UP_Cluster3_DN
10	1e-02	10 / 594	Lembcke_TCGA_expr_kmeans_M_CIMP_H_UP
11	2e-02	61 / 4018	EnhWk2_Colon
12	2e-02	5 / 129	Marisa_CRC-cluster-b
13	2e-02	143 / 10779	Enh_Colon
14	3e-02	11 / 479	Lembcke_TCGA_meth_kmeans_F_CIMP_H_UP
15	3e-02	16 / 799	LaPointe_mucosa-position_kmeans_B_ascending_colon_transverse_colon_U

HM Rank	p-value	#in/all	Geneset
1	0.009	3 / 37	HALLMARK_PANCREAS_BETA_CELLS
2	0.048	4 / 16	HALLMARK_SPERMATOGENESIS
3	0.068	5 / 186	HALLMARK_ESTROGEN_RESPONSE_EARLY
4	0.155	4 / 177	HALLMARK_MITOTIC_SPINDLE
5	0.188	4 / 183	HALLMARK_GLYCOLYSIS
6	0.175	4 / 175	HALLMARK_MYOGENESIS
7	0.217	3 / 137	HALLMARK_UV_RESPONSE_UP
8	0.290	1 / 29	HALLMARK_NOTCH_SIGNALING
9	0.340	2 / 103	HALLMARK_BILE_ACID_METABOLISM
10	0.343	3 / 177	HALLMARK_KRAS_SIGNALING_DN
11	0.369	3 / 185	HALLMARK_TNFA_SIGNALING_VIA_NFKB
12	0.376	1 / 40	HALLMARK_WNT_BETA_CATENIN_SIGNALING
13	0.657	2 / 191	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
14	0.658	1 / 91	HALLMARK_ANDROGEN_RESPONSE
15	0.658	1 / 91	HALLMARK_PEROXISOME

Melanoma Rank	p-value	#in/all	Geneset
1	0.01	3 / 43	Hugo_melanoma-BRAFmut-MET_UP
2	0.13	2 / 54	Hugo_melanoma-all-MET_DN
3	0.30	1 / 30	Hugo_melanoma-all-MET_UP
4	1.00	0 / 9	Hugo_melanoma-BRAFmut-MET_DN
5	1.00	0 / 27	Hugo_melanoma-all-LEF1_UP
6	1.00	0 / 8	Hugo_melanoma-BRAFmut-LEF1_UP
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

miRNA target Rank	p-value	#in/all	Geneset
1	0.003	3 / 25	hsa-miR-943
2	0.005	5 / 93	hsa-miR-216a
3	0.008	7 / 193	hsa-miR-448
4	0.009	4 / 100	hsa-miR-548b-3p
5	0.030	4 / 100	hsa-miR-147
6	0.031	5 / 149	hsa-miR-142-3p
7	0.032	2 / 24	hsa-miR-99b
8	0.038	3 / 63	hsa-miR-1243
9	0.040	5 / 159	hsa-miR-520h
10	0.041	3 / 65	hsa-miR-606
11	0.041	6 / 215	hsa-miR-199a-3p
12	0.046	3 / 68	hsa-miR-649
13	0.053	4 / 120	hsa-miR-664
14	0.058	3 / 75	hsa-miR-651
15	0.060	3 / 76	hsa-miR-592

Telomeres Rank	p-value	#in/all	Geneset
1	0.13	0 / 13	Alternative lengthening of telomeres
2	0.27	0 / 27	Nabetani_alt len telomeres_genes_ko
3	NA	0 / 0	
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Brain Rank	p-value	#in/all	Geneset
1	2e-05	36 / 1476	Overlap_fetal_midbrain_TxTrans
2	3e-04	27 / 1119	Overlap_fetal_midbrain_TssA
3	4e-04	39 / 1893	Overlap_fetal_midbrain_TssF
4	6e-04	23 / 924	Mid_Frontal_Lobe_TssF
5	2e-03	53 / 3046	Fetal_TssA
6	3e-03	28 / 1360	Mid_Frontal_Lobe_TssP
7	9e-03	114 / 578	Fetal_Tx
8	9e-03	64 / 4112	Mid_Frontal_Lobe_ReprPC
9	3e-02	16 / 819	Overlap_fetal_midbrain_TssP
10	5e-02	10 / 465	Mid_Frontal_Lobe_TxTrans
11	7e-02	7 / 304	Mid_Frontal_Lobe_TssA
12	8e-02	8 / 333	Mid_Frontal_Lobe_Tx
13	9e-02	7 / 328	Fetal_Het
14	1e-01	3 / 110	Overlap_fetal_midbrain_Tx
15	2e-01	37 / 2709	Mid_Frontal_Lobe_HetRpts

Chr Rank	p-value	#in/all	Geneset
1	0.01	23 / 1170	Chr 7
2	0.02	12 / 536	Chr 22
3	0.10	10 / 659	Chr 16
4	0.11	15 / 904	Chr 10
5	0.17	14 / 902	Chr 4
6	0.20	21 / 1467	Chr 19
7	0.25	5 / 289	Chr 21
8	0.30	19 / 1411	Chr 10
9	0.38	17 / 1318	Chr 17
10	0.62	11 / 994	Chr X
11	0.67	13 / 1217	Chr 3
12	0.68	8 / 769	Chr 15
13	0.71	12 / 1160	Chr 12
14	0.77	3 / 342	Chr 18
15	0.77	8 / 836	Chr 8

Glio Rank	p-value	#in/all	Geneset
1	0.01	48 / 2988	Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
2	0.02	4 / 84	Weller_LGG_gradell-vs_ILUP
3	0.03	17 / 859	Hopp_Sturm_GBM_Epi3_A_adult_fetus_UP_G34_DN
4	0.03	2 / 22	Shinawi_with_increased_methylation_in_STS
5	0.05	2 / 25	Barbus_GBM_STS_vs_ILUP
6	0.08	3 / 84	GIEZELT_GBM_STS_up_VS_LTS
7	0.09	1 / 8	Sturm_GBM_Meth_overexpression_C_G34_UP
8	0.09	2 / 44	WILLSCHER_GBM_Verhaak-PNwt_up
9	0.10	3 / 93	Hopp_Sturm_GBM_Epi3_C2_adult_fetus_DN
10	0		

Correlation Cluster

Spot Summary: C

metagenes = 90
genes = 772

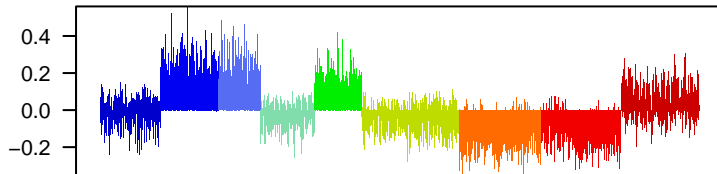
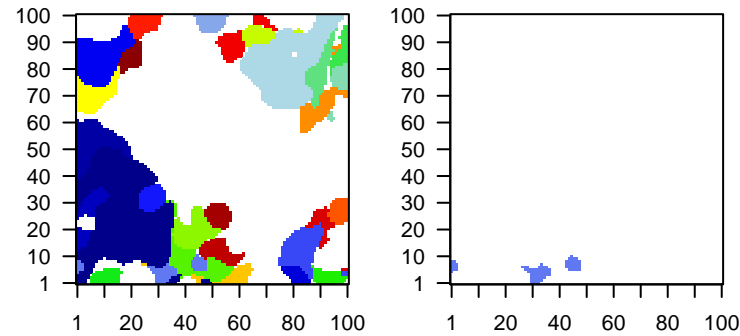
<r> metagenes = 0.93
<r> genes = 0.28
beta: r2= 42.05 / log p= -Inf

samples with spot = 1047 (30.9 %)

- A * : 50 (14.5 %)
- A C * : 310 (94.5 %)
- A C F * : 225 (95.7 %)
- A F * : 22 (7.1 %)
- C F * : 240 (90.6 %)
- F * : 24 (4.3 %)
- F J * : 1 (0.2 %)
- J * : 4 (0.9 %)
- N * : 171 (38.6 %)

Overview Map

Spot

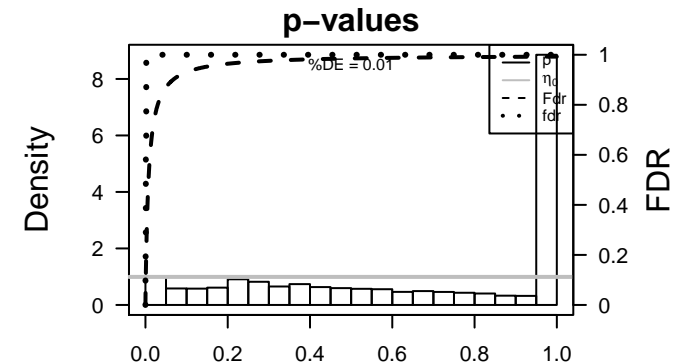


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ILMN_177651	3.13	-1.1	0.44	RAP1GAP1 GTPase activating protein [Source:HGNC Symbol;Acc:HGNC:111138]
2	ILMN_170832	2.82	-1.91	0.84	ALAS2 5-aminolevulinate synthase 2 [Source:HGNC Symbol;Acc:HGNC:111138]
3	ILMN_166243	2.79	-1.83	0.82	CA1 carbonic anhydrase 1 [Source:HGNC Symbol;Acc:HGNC:111138]
4	ILMN_174983	2.5	-1.99	0.5	SMIM1 small integral membrane protein 1 (Vel blood group) [Source:HGNC Symbol;Acc:HGNC:111138]
5	ILMN_176616	2.48	-2.2	0.85	SNCA synuclein alpha [Source:HGNC Symbol;Acc:HGNC:111138]
6	ILMN_171345	2.47	-1.33	0.39	HBZ hemoglobin subunit zeta [Source:HGNC Symbol;Acc:HGNC:111138]
7	ILMN_328576	2.47	-2.05	0.9	SLC4A1 solute carrier family 4 member 1 (Diego blood group) [Source:HGNC Symbol;Acc:HGNC:111138]
8	ILMN_169651	2.44	-2.23	0.92	AHSP alpha hemoglobin stabilizing protein [Source:HGNC Symbol;Acc:HGNC:111138]
9	ILMN_173571	2.39	-1.48	0.66	KRT1 keratin 1 [Source:HGNC Symbol;Acc:HGNC:6412]
10	ILMN_168065	2.38	-1.7	0.94	SELENBP1 selenium binding protein 1 [Source:HGNC Symbol;Acc:HGNC:111138]
11	ILMN_177409	2.28	-1.33	0.77	FECH ferrochelatase [Source:HGNC Symbol;Acc:HGNC:3647]
12	ILMN_323518	2.25	-2.09	0.85	FAM83A-AS1 FAM83A antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:111138]
13	ILMN_171326	2.21	-1.75	0.83	FAM46C family with sequence similarity 46 member C [Source:HGNC Symbol;Acc:HGNC:111138]
14	ILMN_181439	2.2	-1.99	0.93	EPB42 erythrocyte membrane protein band 4.2 [Source:HGNC Symbol;Acc:HGNC:111138]
15	ILMN_203877	2.18	-1.09	0.35	TUBB2A tubulin beta 2A class IIa [Source:HGNC Symbol;Acc:HGNC:111138]
16	ILMN_181552	2.18	-2.44	0.93	HBD hemoglobin subunit delta [Source:HGNC Symbol;Acc:HGNC:111138]
17	ILMN_176031	2.17	-1.46	0.8	VWCE von Willebrand factor C and EGF domains [Source:HGNC Symbol;Acc:HGNC:111138]
18	ILMN_209145	2.09	-2.18	0.83	GYPE glycoaphorin E (MNS blood group) [Source:HGNC Symbol;Acc:HGNC:111138]
19	ILMN_169518	2.09	-1.42	0.88	GYPE glycoaphorin E (MNS blood group) [Source:HGNC Symbol;Acc:HGNC:111138]
20	ILMN_179245	2.08	-1.49	0.65	TMEM158 transmembrane protein 158 (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:111138]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-66	58 / 111	Refer Chaussabel_2,3_Erythrocytes
2	2e-45	54 / 185	HM HALLMARK_HEME_METABOLISM
3	2e-14	24 / 147	Lifest Homuth_BMI-associated-genes_UP
4	4e-14	31 / 267	GSE# IVANOVA_HEMATOPOIESIS_MATURE_CELL
5	4e-14	12 / 25	GSE# VALK_AML_CLUSTER_8
6	6e-14	10 / 15	Lifest DUMEAUX_Red blood cells in non smokers literature genes up
7	8e-14	12 / 26	GSE# VALK_AML_CLUSTER_7
8	2e-11	24 / 202	GSE# JAATINEN_HEMATOPOIETIC_STEM_CELL_DN
9	4e-11	308 / 10779	Color Enh_Colon
10	4e-10	34 / 451	GSE# PILON_KLF1_TARGETS_UP
11	4e-08	6 / 11	MF oxygen transporter activity
12	9e-08	6 / 12	BP oxygen transport
13	1e-07	9 / 39	Refer Chaussabel_2,2_Neutrophils
14	2e-07	19 / 210	GSE# CHYLA_CBFA2T3_TARGETS_DN
15	3e-07	152 / 4795	Chrom 6_EnhG_Fibroblasts
16	4e-07	136 / 4169	Chrom 10_ReprPC_Fibroblasts
17	4e-07	7 / 23	CC cortical cytoskeleton
18	4e-07	122 / 3639	Chrom 1_TssP_Fibroblasts
19	5e-07	98 / 2740	Color ReprPCWk_Colon
20	1e-06	5 / 10	GSE# BIOCARTA_AHSP_PATHWAY
21	1e-06	99 / 2845	Color TxEnhG1_Colon
22	2e-06	107 / 3173	Color ReprPC_Colon
23	3e-06	99 / 2894	Color TssP_Colon
24	1e-05	101 / 3068	Chrom 8_EnhP_Fibroblasts
25	2e-05	10 / 87	GSE# HAHTOLA_SEZARY_SYNDROM_UP
26	2e-05	124 / 4018	Color EnhWk2_Colon
27	3e-05	304 / 11847	Chrom 7_Enh_Neural_Progenitor
28	3e-05	126 / 4107	Chrom 9_ReprPCWk_Fibroblasts
29	3e-05	6 / 29	BP mitophagy
30	3e-05	6 / 29	Refer JONGENEEL_Bone Marrow
31	4e-05	125 / 4112	Brain Mid_Frontal_Lobe_ReprPC
32	5e-05	26 / 505	Color Pentrack_CRC_TCGA_corr_C_normal_UP
33	6e-05	5 / 20	GSE# VANDESLUIS_NORMAL_EMBRYOS_DN
34	7e-05	4 / 11	Refer WIRTH_Prim_lymphoid organs
35	7e-05	107 / 3438	Chrom 10_ReprPC_Melanocytes
36	8e-05	107 / 3450	Chrom 4_TxTrans_Fibroblasts
37	9e-05	128 / 4304	Chrom 9_ReprPCWk_Melanocytes
38	1e-04	161 / 5699	Chrom 6_EnhG_Melanocytes
39	1e-04	30 / 656	GSE# KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_UP
40	1e-04	251 / 9635	Chrom 3_TssF_Fibroblasts



Aging Rank	p-value	#in/all	Geneset
1	0.4	4 / 142	HORVATH_aging_genes_meth_UP
2	0.4	3 / 111	HORVATH_aging_genes_meth_DOWN
3	0.7	1 / 58	TESCHENDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Cancer Rank	p-value	#in/all	Geneset
1	0.04	0 / 14	LIU_PROSTATE_CANCER_UP
2	0.05	0 / 14	LIU_COMMON_CANCER_GENES
3	0.21	3 / 73	SHAOHNESSY_Meth_high
4	0.23	15 / 554	Lembcke_ColonInflammation
5	0.25	1 / 13	RHODES_CANCER_META_SIGNATURE
6	0.25	1 / 13	GENTLES_modul2
7	0.25	1 / 13	GENTLES_modul12
8	0.25	4 / 117	PanCan_Driver_Gene_geneset_nanostring
9	0.27	1 / 14	GENTLES_modul1
10	0.27	3 / 82	PanCan_JAK-ST_geneset_nanostring
11	0.27	0 / 15	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN
12	0.28	1 / 15	WANG_ER_UP
13	0.28	1 / 15	GENTLES_modul17
14	0.30	1 / 16	GENTLES_modul11
15	0.30	1 / 16	GENTLES_modul16

Chromatin states Rank	p-value	#in/all	Geneset
1	3e-07	152 / 4795	6_EnhG_Fibroblasts
2	4e-07	136 / 4169	10_ReprPC_Fibroblasts
3	4e-07	122 / 3639	1_TssP_Fibroblasts
4	1e-05	101 / 3068	9_EnhP_Fibroblasts
5	3e-05	304 / 11847	9_Enh_Neural_Progenitor
6	3e-05	126 / 4107	9_ReprPCWk_Fibroblasts
7	7e-05	107 / 3438	10_ReprPC_Melanocytes
8	8e-05	107 / 3450	4_TxTrans_Fibroblasts
9	9e-05	128 / 4304	9_ReprPCWk_Melanocytes
10	1e-04	181 / 5699	4_EnhC_Melanocytes
11	1e-04	251 / 9635	3_TssF_Fibroblasts
12	5e-04	83 / 2660	8_EnhP_Melanocytes
13	7e-04	319 / 112983	2_TssA_Neural_Progenitor
14	8e-04	294 / 11836	3_TssF_Melanocytes
15	9e-04	313 / 12741	7_Enh_Melanocytes

GSEA C Rank	p-value	#in/all	Geneset
1	4e-14	31 / 267	IVANOVA_HEMATOPOIESIS_MATURE_CELL
2	4e-14	12 / 25	VALK_AML_CLUSTER_8
3	8e-14	12 / 26	VALK_AML_CLUSTER_7
4	2e-11	24 / 202	JAAATINEN_HEMATOPOIETIC_STEM_CELL_DN
5	4e-10	34 / 451	PILON_KLF1_TARGETS_UP
6	2e-07	3 / 210	CHYLA_CBZAT3_TARGETS_DN
7	1e-06	5 / 10	BIOCARTA_AHSP_PATHWAY
8	2e-05	10 / 87	HAHTOLA_SEZARY_SYNDROM_UP
9	6e-05	5 / 20	VANDESLUIS_NORMAL_EMBRYOS_DN
10	1e-04	30 / 656	KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_UP
11	2e-04	8 / 24	LEU_CEBELLUM_DN
12	2e-04	10 / 17	MIKKELSEN_IPS_ICP_WITH_H3K4ME3_AND_H3Z7ME3
13	3e-04	4 / 15	STEINER_ERYTHROCYTE_MEMBRANE_GENES
14	3e-04	8 / 78	MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_UP
15	4e-04	12 / 169	TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_DN

Lymphoma Rank	p-value	#in/all	Geneset
1	0.002	146 / 5384	HOPP_Repressed
2	0.003	86 / 2939	HOPP_Poised_promoter
3	0.012	2 / 8	YAMANE_AICDA_targets_nonrecruited
4	0.053	9 / 220	Hopp_June14_MMML937_tumors+controls_group.overexpression_B_cell_line
5	0.069	9 / 232	WIRTH_lymphoma937_spot B
6	0.091	5 / 109	ROSLOWSKI_blue total
7	0.118	14 / 450	Hopp_June14_MMML937_tumors+controls_group.overexpression_L_MM_GC
8	0.140	14 / 450	WIRTH_lymphoma937_spot A
9	0.160	10 / 318	Hopp_June14_MMML937_tumors+controls_group.overexpression_H_GC-B
10	0.184	12 / 408	TARTE_Mature plasma cell signature
11	0.189	10 / 331	WIRTH_lymphoma937_spot H
12	0.197	3 / 70	LEE_Developmental_regulators
13	0.209	3 / 73	Hopp_June14_MMML937_tumors+controls_group.overexpression_IM_mBL_C
14	0.216	1 / 11	DAVE_BL_UP
15	0.219	3 / 74	WIRTH_lymphoma937_spot IM

miRNA Disease Rank	p-value	#in/all	Geneset
1	0.3	1 / 17	Thyroid carcinoma, follicular
2	0.3	1 / 18	Hodgkin lymphoma
3	0.5	1 / 29	Myelofibrosis, idiopathic
4	0.5	2 / 73	Stress susceptibility to
5	0.6	1 / 47	Cervical cancer, somatic
6	0.7	1 / 48	Gastric cancer
7	0.7	1 / 57	Cardiomyopathy, dilated
8	0.7	2 / 116	Cancer
9	0.8	1 / 65	Hepatocellular carcinoma
10	0.8	1 / 68	Glioblastoma multiforme, somatic
11	0.9	1 / 95	Colorectal cancer
12	0.9	1 / 102	Leukemia
13	0.9	1 / 113	Ovarian cancer
14	0.9	1 / 20	Hematological
15	0.9	1 / 23	Pancreatic cancer

Reference Signatures Rank	p-value	#in/all	Geneset
1	1e-66	58 / 111	Chaussabel_2.3_Erythrocytes
2	1e-07	9 / 39	Chaussabel_2.2_Neutrophils
3	3e-05	6 / 29	JONGENEEL_Bone Marrow
4	7e-05	4 / 11	WIRTH_Prim_lymphoid organs
5	3e-03	3 / 13	WIRTH_Bone marrow
6	9e-03	19 / 478	WIRTH_Nervous System
7	1e-02	3 / 23	JONGENEEL_Heart
8	3e-02	2 / 12	VAQUERIZAS_Kidney_TF
9	4e-02	2 / 14	WIRTH_Telencephalon
10	6e-02	2 / 19	VAQUERIZAS_Bone marrow_TF
11	1e-01	3 / 53	JONGENEEL_Kidney
12	2e-01	1 / 8	VAQUERIZAS_Tongue_TF
13	2e-01	1 / 8	JONGENEEL_Fetal Brain
14	2e-01	4 / 102	Chaussabel_1.2_Platelets
15	2e-01	1 / 10	VAQUERIZAS_Skeletal muscle_TF

BP Rank	p-value	#in/all	Geneset
1	9e-08	6 / 12	oxygen transport
2	3e-05	6 / 25	mitophagy
3	2e-04	6 / 40	erythrocyte differentiation
4	3e-04	4 / 16	erythrocyte development
5	8e-04	4 / 20	heme biosynthetic process
6	1e-03	3 / 10	negative regulation of inclusion body assembly
7	2e-03	3 / 12	axosome assembly
8	2e-03	3 / 12	regulation of proteasomal protein catabolic process
9	2e-03	4 / 25	protein targeting to plasma membrane
10	3e-03	7 / 89	negative regulation of protein kinase activity
11	3e-03	4 / 29	iron ion homeostasis
12	4e-03	3 / 15	cardiac muscle hypertrophy in response to stress
13	4e-03	11 / 197	in utero embryonic development
14	5e-03	3 / 16	negative regulation of lipid catabolic process
15	6e-03	3 / 17	regulation of long-term neuronal synaptic plasticity

CC Rank	p-value	#in/all	Geneset
1	4e-07	7 / 23	cortical cytoskeleton
2	3e-04	92 / 2979	cytosol
3	4e-03	3 / 11	TOR2 complex
4	4e-03	7 / 93	blood microparticle
5	6e-03	3 / 17	cell-cell contact zone
6	7e-03	13 / 273	neuron projection
7	8e-03	7 / 104	endomembrane system
8	1e-02	90 / 3291	integral component of membrane
9	2e-02	11 / 249	axon
10	2e-02	3 / 28	voltage-gated calcium channel complex
11	2e-02	2 / 11	actomyosin
12	2e-02	2 / 11	inhibitory synapse
13	3e-02	5 / 76	extrinsic component of membrane
14	8e-02	8 / 162	basolateral plasma membrane
15	3e-02	13 / 330	cytoskeleton

Colon Cancer Rank	p-value	#in/all	Geneset
1	4e-11	308 / 10779	Enh_Colon
2	5e-07	98 / 2740	ReprPCWk_Colon
3	1e-06	99 / 2845	TxEthG1_Colon
4	2e-06	107 / 3173	ReprC_Colon
5	9e-06	99 / 2894	TSSP_Colon
6	2e-05	124 / 4018	EnhWk2_Colon
7	5e-05	26 / 505	Pentrack_CRC_TCGA_corr_C_normal_UP
8	2e-04	89 / 2810	EnhA_Colon
9	2e-04	170 / 6138	TSSD2_Colon
10	9e-04	149 / 5373	EnhWk1_Colon
11	1e-03	193 / 7354	TssF_Colon
12	6e-03	25 / 663	Lembcke_TCGA-expr_kmeans_L_CIMP_H_UP_Cluster4_DN
13	8e-03	25 / 676	Lembcke_TCGA_meth_kmeans_L_CIMP_H_DN
14	8e-03	57 / 1895	EnhP_Colon
15	2e-02	221 / 9054	Tx_Colon

HM Rank	p-value	#in/all	Geneset
1	2e-45	54 / 195	HALLMARK_HEME_METABOLISM
2	2e-02	9 / 189	HALLMARK_HYPOXIA
3	4e-02	8 / 175	HALLMARK_XENOBIOTIC_METABOLISM
4	4e-02	6 / 116	HALLMARK_SPERMATOGENESIS
5	8e-02	5 / 103	HALLMARK_UNFOLDED_PROTEIN_RESPONSE
6	9e-02	6 / 176	HALLMARK_KRAS_SIGNALING_UP
7	2e-01	6 / 178	HALLMARK_ADIPOGENESIS
8	2e-01	6 / 177	HALLMARK_KRAS_SIGNALING_DN
9	2e-01	6 / 183	HALLMARK_APICAL_JUNCTION
10	2e-01	6 / 186	HALLMARK_MYOGENESIS
11	2e-01	2 / 41	HALLMARK_APICAL_SURFACE
12	2e-01	2 / 61	HALLMARK_APOPTOSIS
13	3e-01	4 / 127	HALLMARK_COAGULATION
14	4e-01	4 / 137	HALLMARK_UV_RESPONSE_UP
15	4e-01	3 / 97	HALLMARK_PI3K_AKT_MTOR_SIGNALING

Melanoma Rank	p-value	#in/all	Geneset
1	0.03	3 / 30	Hugo_melanoma-all-MET_UP
2	0.07	3 / 43	Hugo_melanoma-BRAFmut-MET_UP
3	0.16	2 / 8	Hugo_melanoma-BRAFmut-LEF1_UP
4	0.33	2 / 54	Hugo_melanoma-all-MET_DN
5	0.45	1 / 27	Hugo_melanoma-all-LEF1_UP
6	1.00	0 / 9	Hugo_melanoma-BRAFmut-MET_DN
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

mikNA target Rank	p-value	#in/all	Geneset
1	0.003	8 / 113	hsa-miR-498
2	0.006	9 / 149	hsa-miR-142-3p
3	0.007	7 / 103	hsa-miR-146b-3p
4	0.009	7 / 105	hsa-miR-146a
5	0.011	6 / 85	hsa-miR-149
6	0.013	5 / 64	hsa-miR-1278
7	0.014	8 / 144	hsa-miR-24
8	0.016	6 / 93	hsa-miR-216a
9	0.018	5 / 70	hsa-miR-142-3p
10	0.022	6 / 100	hsa-miR-516b
11	0.022	6 / 100	hsa-miR-150
12	0.027	5 / 77	hsa-miR-422a
13	0.027	4 / 52	hsa-miR-508-5p
14	0.027	2 / 12	hsa-miR-639
15	0.031	6 / 108	hsa-miR-501-5p

Telomeres Rank	p-value	#in/all	Geneset
1	0.1	2 / 27	Nabetani_alt len telomeres_genes_ko
2	1.0	0 / 13	Alternative lengthening of telomeres
3	NA	0 / 0	
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Brain Rank	p-value	#in/all	Geneset
1	4e-05	125 / 4112	Mid_Frontal_Lobe_ReprPC
2	3e-04	266 / 10430	Overlap_fetal_midbrain_Quies
3	5e-04	96 / 3164	Mid_Frontal_Lobe_ZNF
4	1e-03	82 / 2709	Mid_Frontal_Lobe_HetRpts
5	4e-03	30 / 818	Mid_Frontal_Lobe_Het
6	8e-03	63 / 2127	Mid_Frontal_Lobe_K9K27me3
7	1e-02	40 / 1360	Mid_Frontal_Lobe_TssP
8	1e-02	52 / 1728	Fetal_ReprPCWk
9	2e-02	75 / 2700	Fetal_TxTrans
10	3e-02	228 / 9504	Overlap_fetal_midbrain_K9K27me3
11	5e-02	33 / 1119	Overlap_fetal_midbrain_TssA
12	235 / 9917		Overlap_fetal_midbrain_ReprPCWk
13	6e-02	79 / 3046	Fetal_TssA
14	7e-02	51 / 1893	Overlap_fetal_midbrain_TssF
15	1e-01	14 / 465	Mid_Frontal_Lobe_TxTrans

Chr Rank	p-value	#in/all	Geneset
1	0.05	38 / 1318	Chr 17
2	0.08	39 / 1411	Chr 11
3	0.13	16 / 536	Chr 22
4	0.13	11 / 342	Chr 18
5	0.16	38 / 1467	Chr 19
6	0.21	25 / 959	Chr 16
7	0.23	56 / 2323	Chr 1
8	0.30	30 / 1217	Chr 3
9	0.28	18 / 619	Chr 20
10	0.33	28 / 1170	Chr 7
11	0.37	20 / 836	Chr 8
12	0.61	6 / 289	Chr 21
13	0.61	16 / 768	Chr 14
14	0.71	30 / 1492	Chr 2
15	0.71	15 / 769	Chr 15

Glio Rank	p-value	#in/all	Geneset
1	6e-04	50 / 1417	Hopp_Sturm_GBM_Epi3_no_zentr_5_IDH_UP_fetus_adult_DN
2	6e-03	7 / 98	WILLSCHER_GBM_proteomics_wtOnly_SpotB
3	1e-02	83 / 2988	Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
4	2e-02	18 / 487	Hopp_Sturm_GBM_Epi3_B_adult_UP_G34_DN
5	3e-02	15 / 401	DownB
6	4e-02	5 / 84	Weller_LGG_gradell-Vs-III_UP
7	4e-02	3 / 35	Colman_survival_associated
8	7e-02	3 / 43	Noushmehr_Pron_GCIMP_hypermeth_DN
9	7e-02	3 / 44	WILLSCHER_GBM_Verhaak-PNwt_up
10	8e-02		

Correlation Cluster

Spot Summary: D

metagenes = 65
genes = 163

<r> metagenes = 0.93
<r> genes = 0.05
beta: r2= 0.37 / log p= -Inf

samples with spot = 0 (0 %)

Spot Genelist

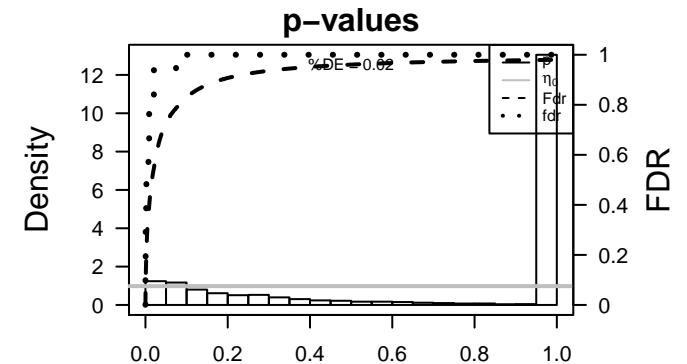
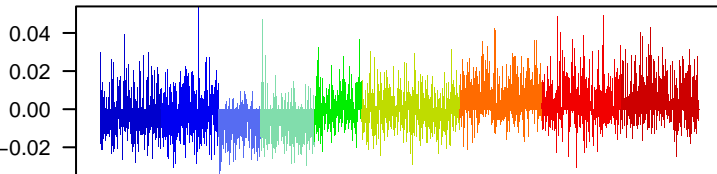
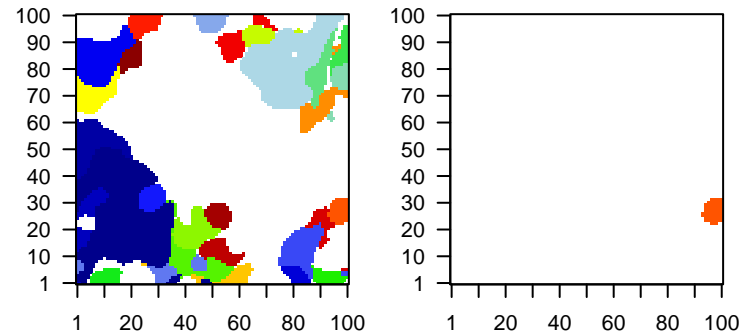
Rank	ID	max e	r	min e	Description
					Symbol
1	ILMN_173454	0.38	-0.21	0.26	WTAP Wilms tumor 1 associated protein [Source:HGNC Symbol;Acc:HGNC:173454]
2	ILMN_219344	0.37	-0.22	0.18	TRIM16Ltripartite motif containing 16-like [Source:HGNC Symbol;Acc:HGNC:219344]
3	ILMN_218621	0.36	-0.23	0.2	GOLIM4 golgi integral membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:218621]
4	ILMN_169410	0.35	-0.22	0.22	PRIM2 primase (DNA) subunit 2 [Source:HGNC Symbol;Acc:HGNC:169410]
5	ILMN_330089	0.29	-0.19	0.2	LOC729652
6	ILMN_170191	0.28	-0.19	0.17	CD274 CD274 molecule [Source:HGNC Symbol;Acc:HGNC:17635]
7	ILMN_172532	0.27	-0.15	0.19	
8	ILMN_177837	0.26	-0.21	0.26	
9	ILMN_177687	0.26	-0.2	0.35	HMG2 high mobility group nucleosomal binding domain 2 [Source:HGNC Symbol;Acc:HGNC:177687]
10	ILMN_169186	0.26	-0.2	0.1	RABIF RAB interacting factor [Source:HGNC Symbol;Acc:HGNC:97169]
11	ILMN_166533	0.26	-0.2	0.17	iduronate 2-sulfatase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:166533]
12	ILMN_324439	0.26	-0.17	0.35	
13	ILMN_330480	0.25	-0.17	0.32	ANKRD36Bryrin repeat domain 36B pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:330480]
14	ILMN_180495	0.24	-0.18	0.13	ZFY zinc finger protein, Y-linked [Source:HGNC Symbol;Acc:HGNC:180495]
15	ILMN_168330	0.24	-0.2	0.27	BAX BCL2 associated X, apoptosis regulator [Source:HGNC Symbol;Acc:HGNC:168330]
16	ILMN_214103	0.24	-0.18	0.18	
17	ILMN_167489	0.24	-0.19	0.25	RNF213 ring finger protein 213 [Source:HGNC Symbol;Acc:HGNC:167489]
18	ILMN_238696	0.23	-0.17	0.23	
19	ILMN_168013	0.23	-0.19	0.17	MAFF MAF bZIP transcription factor F [Source:HGNC Symbol;Acc:HGNC:168013]
20	ILMN_328119	0.23	-0.16	0.21	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	7e-10	97 / 11455	Chror 2_TssA_Fibroblasts
2	8e-08	97 / 12298	Chror 2_TssA_Melanocytes
3	3e-07	89 / 10999	Colon TssWk_Colon
4	5e-07	82 / 9815	Brain Overlap_fetal_midbrain_ReprPC
5	7e-07	85 / 10430	Brain Overlap_fetal_midbrain_Quies
6	9e-07	98 / 12983	Chror 2_TssA_Neural_Progenitor
7	1e-06	92 / 11836	Chror 3_TssF_Melanocytes
8	1e-06	75 / 8771	Chror 5_Tx_Melanocytes
9	2e-06	67 / 7448	Lymp HOPP_Strong_enhancer
10	2e-06	79 / 9555	Colon TssA_Colon
11	2e-06	11 / 331	Lymp SPANG_CD40 6hrs UP
12	3e-06	9 / 211	Lifest Homuth_BMI-associated-genes_DN
13	5e-06	68 / 7854	Chror 5_Tx_Fibroblasts
14	7e-06	16 / 783	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
15	8e-06	64 / 7275	Lymp HOPP_Txn_elongation
16	9e-06	74 / 8990	Chror 15_Quies_Fibroblasts
17	1e-05	23 / 1535	GSE/ BLALOCK_ALZHEIMERS_DISEASE_UP
18	1e-05	69 / 8226	Lymp HOPP_Active_promoter
19	2e-05	16 / 841	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_UP
20	2e-05	68 / 8098	Lymp HOPP_Weak_promoter
21	2e-05	25 / 1846	Chror 14_ZNF_Melanocytes
22	3e-05	58 / 6559	Lymp HOPP_Weak_txn
23	3e-05	51 / 5466	TF ICGC_Nficsc81335_targets
24	3e-05	14 / 692	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
25	3e-05	76 / 9635	Chror 3_TssF_Fibroblasts
26	4e-05	60 / 6959	Lymp HOPP_Weak_enhancer
27	6e-05	7 / 176	HM HALLMARK_ADIPOGENESIS
28	6e-05	11 / 471	GSE/ ZHOU_INFLAMMATORY_RESPONSE_FIMA_UP
29	7e-05	18 / 1169	Lymp SPANG_BCR_DN
30	1e-04	76 / 9917	Brain Overlap_fetal_midbrain_ReprPCWk
31	1e-04	6 / 138	GSE/ WAKABAYASHI_ADIPOGENESIS_PPARG_RXRA_BOUND_36HR
32	1e-04	8 / 272	Lymp SPANG_IL21_DN
33	2e-04	7 / 208	GSE/ THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_DN
34	2e-04	48 / 5356	Lymp HOPP_Txn_transition
35	2e-04	82 / 11130	Chror 15_Quies_Melanocytes
36	2e-04	4 / 51	CC peroxisomal membrane
37	2e-04	68 / 8678	Color Quies3_Colon
38	2e-04	3 / 21	GSE/ BREUHANN_GROWTH_FACTOR_SIGNALING_IN_LIVER_CANCER
39	2e-04	33 / 3194	TF ICGC_Irf4_targets
40	2e-04	10 / 454	GSE/ SENESE_HDAC3_TARGETS_UP

Overview Map

Spot



Correlation Cluster

Spot Summary: E

metagenes = 52
genes = 156

<r> metagenes = 0.93
<r> genes = 0.14
beta: r2= 2.07 / log p= -Inf

samples with spot = 131 (3.9 %)

- A* : 23 (6.7 %)
- AC* : 47 (14.3 %)
- ACF* : 3 (1.3 %)
- AF* : 7 (2.3 %)
- CF* : 10 (3.8 %)
- F* : 3 (0.5 %)
- FJ* : 1 (0.2 %)
- J* : 7 (1.6 %)
- N* : 30 (6.8 %)

Spot Genelist

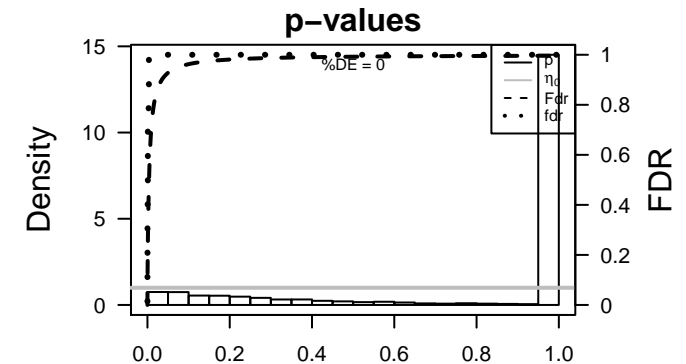
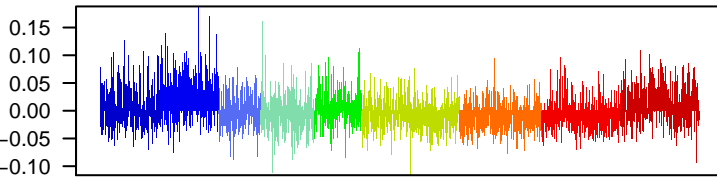
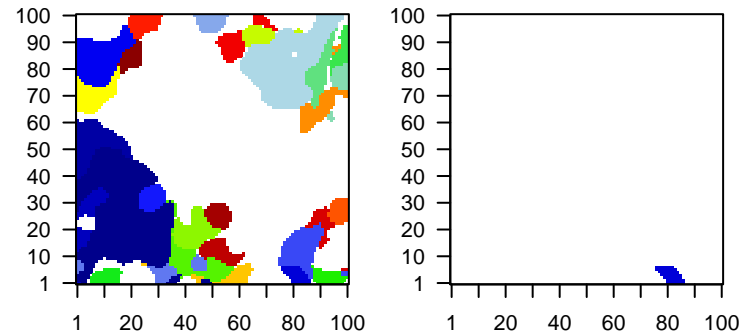
Rank	ID	max e	r	min e	Description
1	ILMN_206041	1.52	-1.23	0.13	CD24 CD24 molecule [Source:HGNC Symbol;Acc:HGNC:1645]
2	ILMN_167604	0.78	-0.4	0.14	ALOX15 arachidonate 15-lipoxygenase [Source:HGNC Symbol;Acc:H
3	ILMN_172303	0.75	-0.29	0.36	OLR1 oxidized low density lipoprotein receptor 1 [Source:HGNC Sy
4	ILMN_223469	0.68	-0.26	0.21	BEX1 brain expressed X-linked 1 [Source:HGNC Symbol;Acc:HGN
5	ILMN_236859	0.66	-0.56	0.21	SMG7 SMG7, nonsense mediated mRNA decay factor [Source:HGNC
6	ILMN_167133	0.63	-0.32	0.19	SLC2A5 solute carrier family 2 member 5 [Source:HGNC Symbol;Acc:
7	ILMN_324763	0.61	-0.26	0.39	
8	ILMN_231307	0.59	-0.46	0.6	NLRP1 NLR family pyrin domain containing 1 [Source:HGNC Symbol
9	ILMN_175162	0.54	-0.29	0.36	MS4A3 membrane spanning 4-domains A3 [Source:HGNC Symbol;A
10	ILMN_173602	0.53	-0.23	0.33	MMP8 matrix metalloproteinase 8 [Source:HGNC Symbol;Acc:HGNC
11	ILMN_176343	0.51	-0.43	0.47	SETX senataxin [Source:HGNC Symbol;Acc:HGNC:445]
12	ILMN_175608	0.51	-0.74	0.54	INTS3 integrator complex subunit 3 [Source:HGNC Symbol;Acc:HGI
13	ILMN_172611	0.51	-0.38	0.16	SLC45A3 solute carrier family 45 member 3 [Source:HGNC Symbol;Acc:
14	ILMN_168066	0.49	-0.28	0.46	SASS6 SAS-6 centriolar assembly protein [Source:HGNC Symbol;A
15	ILMN_169922	0.48	-0.54	0.56	UBR4 ubiquitin protein ligase E3 component n-recogin 4 [Source:U
16	ILMN_176570	0.47	-0.41	0.54	
17	ILMN_173448	0.47	-0.37	0.25	BSDC1 BSD domain containing 1 [Source:HGNC Symbol;Acc:HGNC
18	ILMN_225963	0.47	-0.41	0.45	
19	ILMN_168396	0.46	-0.35	0.41	
20	ILMN_239752	0.45	-0.3	0.67	KDM6B lysine demethylase 6B [Source:HGNC Symbol;Acc:HGNC:29

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-13	9 / 39	Refer Chaussabel_2,2_Neutrophils
2	2e-06	59 / 7448	LympI HOPP_Strong_enhancer
3	6e-06	9 / 272	miRN hsa-miR-92a
4	7e-06	46 / 5356	LympI HOPP_Txn_transition
5	7e-06	64 / 8771	Chror 5_Tx_Melanocytes
6	7e-06	10 / 358	GSE/ CHYLA_CBFA2T3_TARGETS_UP
7	1e-05	65 / 9054	Colon Tx_Colon
8	1e-05	42 / 4795	Chror 6_EnhG_Fibroblasts
9	2e-05	55 / 7275	LympI HOPP_Txn_elongation
10	2e-05	9 / 328	miRN hsa-miR-32
11	4e-05	61 / 8568	Colon TxWk_Colon
12	5e-05	5 / 85	miRN hsa-miR-220c
13	6e-05	72 / 10999	Colon TssWk_Colon
14	9e-05	3 / 19	MF 1-acylglycerol-3-phosphate O-acyltransferase activity
15	1e-04	17 / 1281	Color LaPointe_mucosa-position_kmeans_J_cecum_colon_ascending_colon_tra
16	1e-04	61 / 8818	MF protein binding
17	1e-04	14 / 924	GSE/ MARSON_BOUND_BY_FOXP3_STIMULATED
18	2e-04	27 / 2845	Color TxEnhG1_Colon
19	2e-04	20 / 1797	GSE/ PILON_KLF1_TARGETS_DN
20	2e-04	3 / 26	GSE/ CHEN_LUNG_CANCER_SURVIVAL
21	2e-04	7 / 263	miRN hsa-miR-92b
22	3e-04	7 / 271	miRN hsa-miR-363
23	3e-04	7 / 277	GSE/ GABRIELY_MIR21_TARGETS
24	3e-04	5 / 128	BP actin cytoskeleton organization
25	4e-04	43 / 5699	Chror 6_EnhG_Melanocytes
26	4e-04	6 / 204	miRN hsa-miR-432
27	5e-04	26 / 2810	Color EnhA_Colon
28	5e-04	54 / 7854	Chror 5_Tx_Fibroblasts
29	5e-04	7 / 298	miRN hsa-miR-25
30	5e-04	4 / 79	GSE/ TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6HR_UP
31	6e-04	62 / 9555	Color TssA_Colon
32	7e-04	4 / 84	GSE/ HOEBEKE_LYMPHOID_STEM_CELL_UP
33	8e-04	7 / 318	Lymp Hopp_June14_MMML937_tumors+controls_group.overexpression_H_GC-
34	8e-04	20 / 1979	CC membrane
35	9e-04	8 / 425	GSE/ ZHOU_INFLAMMATORY_RESPONSE_LIVE_UP
36	9e-04	7 / 328	miRN hsa-miR-367
37	9e-04	3 / 41	GSE/ IKEDA_MIR133_TARGETS_UP
38	1e-03	6 / 240	Refer Chaussabel_3,3_Inflammation II
39	1e-03	2 / 10	GSE/ BIOCARTE_GLYCOLYSIS_PATHWAY
40	1e-03	76 / 12741	Chror 7_Enh_Melanocytes

Overview Map

Spot



Correlation Cluster

Spot Summary: F

metagenes = 196
genes = 238

<r> metagenes = 0.92

<r> genes = 0.17

beta: r2= 12.28 / log p= -Inf

samples with spot = 656 (19.4 %)

A* : 62 (18 %)

AC* : 95 (29 %)

ACF* : 9 (3.8 %)

AF* : 21 (6.8 %)

CF* : 75 (28.3 %)

F* : 85 (15.3 %)

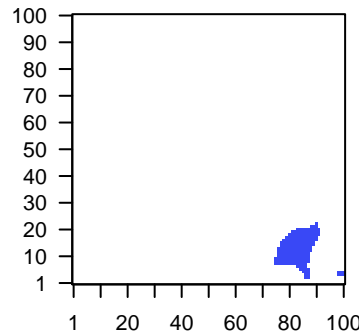
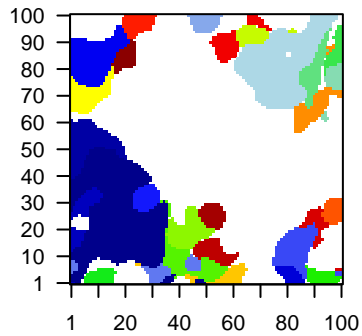
FJ* : 65 (14 %)

J* : 67 (15 %)

N* : 177 (40 %)

Overview Map

Spot

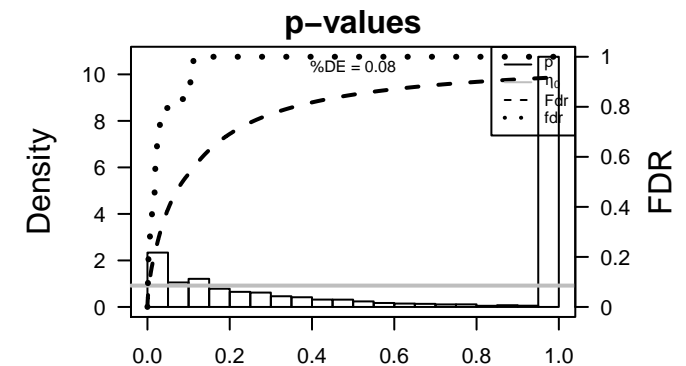
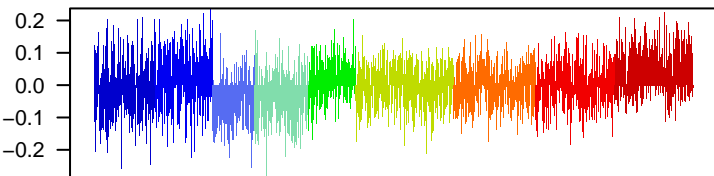


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ILMN_218437	1.61	-1.4	0.43	CXCL8 C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:12706]
2	ILMN_176605	1.31	-1.01	0.49	ABCA1 ATP binding cassette subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:12706]
3	ILMN_175886	1.2	-1.23	0.77	VNN2 vanin 2 [Source:HGNC Symbol;Acc:HGNC:12706]
4	ILMN_172442	1.14	-1.08	0.65	SELL selectin L [Source:HGNC Symbol;Acc:HGNC:10720]
5	ILMN_180704	1.08	-0.95	0.65	MARCKSmyristoylated alanine rich protein kinase C substrate [Source:HGNC Symbol;Acc:HGNC:12706]
6	ILMN_175981	0.99	-1.14	0.75	SORL1 sortilin related receptor 1 [Source:HGNC Symbol;Acc:HGNC:12706]
7	ILMN_171230	0.99	-0.91	0.62	CYBRD1 cytochrome b reductase 1 [Source:HGNC Symbol;Acc:HGNC:12706]
8	ILMN_208769	0.97	-0.83	0.58	CYBRD1 cytochrome b reductase 1 [Source:HGNC Symbol;Acc:HGNC:12706]
9	ILMN_236359	0.96	-1.31	0.87	SDCBP syndecan binding protein [Source:HGNC Symbol;Acc:HGNC:12706]
10	ILMN_236358	0.95	-1.19	0.92	SDCBP syndecan binding protein [Source:HGNC Symbol;Acc:HGNC:12706]
11	ILMN_177948	0.92	-0.88	0.78	FAM126B family with sequence similarity 126 member B [Source:HGNC Symbol;Acc:HGNC:12706]
12	ILMN_170504	0.91	-0.83	0.82	TLR8 toll like receptor 8 [Source:HGNC Symbol;Acc:HGNC:15632]
13	ILMN_222514	0.91	-0.87	0.68	EIF4E3 eukaryotic translation initiation factor 4E family member 3 [Source:HGNC Symbol;Acc:HGNC:12706]
14	ILMN_168359	0.89	-0.81	0.77	ACSL4 acyl-CoA synthetase long-chain family member 4 [Source:HGNC Symbol;Acc:HGNC:12706]
15	ILMN_171679	0.89	-0.99	0.7	CD302 CD302 molecule [Source:HGNC Symbol;Acc:HGNC:30843]
16	ILMN_171969	0.87	-0.81	0.61	NFKBIZ NFKB inhibitor zeta [Source:HGNC Symbol;Acc:HGNC:29806]
17	ILMN_217094	0.87	-0.84	0.81	SNX10 sorting nexin 10 [Source:HGNC Symbol;Acc:HGNC:14974]
18	ILMN_179268	0.87	-0.98	0.7	HIST1H2A histone cluster 1, H2ac [Source:HGNC Symbol;Acc:HGNC:4706]
19	ILMN_211762	0.84	-0.7	0.79	PLXNC1 plexin C1 [Source:HGNC Symbol;Acc:HGNC:9106]
20	ILMN_170248	0.83	-1.04	0.63	SGK1 serum/glucocorticoid regulated kinase 1 [Source:HGNC Symbol;Acc:HGNC:12706]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-12	18 / 240	Refer Chaussabel_3_3_Inflammation II
2	3e-11	45 / 1797	GSE/ PILON_KLF1_TARGETS_DN
3	8e-10	17 / 301	Cancer SPANG_BCL6-index2
4	1e-09	14 / 196	GSE/ MCLACHLAN_DENTAL_CARIES_UP
5	2e-09	134 / 10999	Colon TssWk_Colon
6	8e-09	93 / 6559	Lymph HOPP_Weak_txn
7	9e-09	20 / 498	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP
8	2e-08	10 / 102	Refer Chaussabel_1_2_Platelets
9	2e-08	18 / 416	GSE/ FULCHER_INFLAMMATORY_RESPONSE_LECTIN_VS_LPS_DN
10	3e-08	121 / 9815	Brain Overlap_fetal_midbrain_ReprPC
11	4e-08	112 / 8818	MF protein binding
12	5e-08	113 / 8990	Chrom 15_Quies_Fibroblasts
13	8e-08	26 / 924	GSE/ MARSON_BOUND_BY_FOXP3_STIMULATED
14	9e-08	12 / 192	GSE/ MCLACHLAN_DENTAL_CARIES_DN
15	1e-07	19 / 532	GSE/ SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_DN
16	2e-07	13 / 242	Refer Chaussabel_3_2_Inflammation I
17	2e-07	28 / 1104	GSE/ MARSON_BOUND_BY_FOXP3_UNSTIMULATED
18	2e-07	23 / 783	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
19	3e-07	109 / 8771	Chrom 5_Tx_Melanocytes
20	3e-07	30 / 1265	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
21	4e-07	21 / 684	GSE/ GOZGIT_ESR1_TARGETS_DN
22	4e-07	92 / 6959	Lymph HOPP_Weak_enhancer
23	4e-07	21 / 692	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
24	5e-07	8 / 82	GSE/ GRAHAM_CML_DIVIDING_VS_NORMAL QUIESCENT_DN
25	5e-07	14 / 315	GSE/ SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
26	6e-07	28 / 1169	Lymph SPANG_BCR_DN
27	9e-07	106 / 8613	Chrom 7_Enh_Fibroblasts
28	1e-06	114 / 9555	Colon TssA_Colon
29	1e-06	22 / 794	GSE/ NUYTEN_NIPP1_TARGETS_DN
30	1e-06	95 / 7448	Lymph HOPP_Strong_enhancer
31	1e-06	16 / 445	GSE/ ENK_UV_RESPONSE KERATINOCYTE_DN
32	2e-06	16 / 455	GSE/ ZHENG_BOUND_BY_FOXP3
33	2e-06	32 / 1535	GSE/ BLALOCK_ALZHEIMERS_DISEASE_UP
34	2e-06	80 / 5936	Brain Overlap_fetal_midbrain_HetRpts
35	3e-06	13 / 315	Glio Up
36	3e-06	13 / 317	miRN hsa-miR-559
37	3e-06	4 / 13	GSE/ MARTINELLI_IMMATURE_NEUTROPHIL_DN
38	4e-06	16 / 482	GSE/ DUTERTRE ESTRADIOL_RESPONSE_24HR_DN
39	4e-06	97 / 7854	Chrom 5_Tx_Fibroblasts
40	4e-06	7 / 77	GSE/ MORI_MATURE_B_LYMPHOCYTE_UP



Correlation Cluster

Spot Summary: G

metagenes = 59
genes = 915

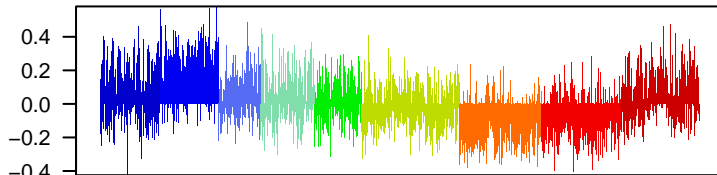
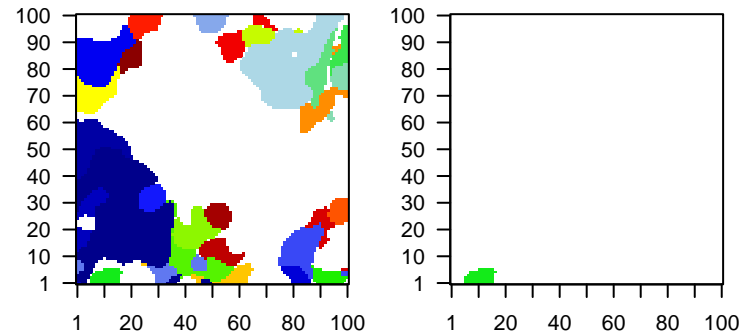
<r> metagenes = 0.96
<r> genes = 0.44
beta: r2= 65.32 / log p= -Inf

samples with spot = 1066 (31.5 %)

- A * : 148 (43 %)
- AC * : 253 (77.1 %)
- ACF * : 101 (43 %)
- AF * : 110 (35.7 %)
- CF * : 89 (33.6 %)
- F * : 117 (21.1 %)
- FJ * : 22 (4.8 %)
- J * : 43 (9.6 %)
- N * : 183 (41.3 %)

Overview Map

Spot

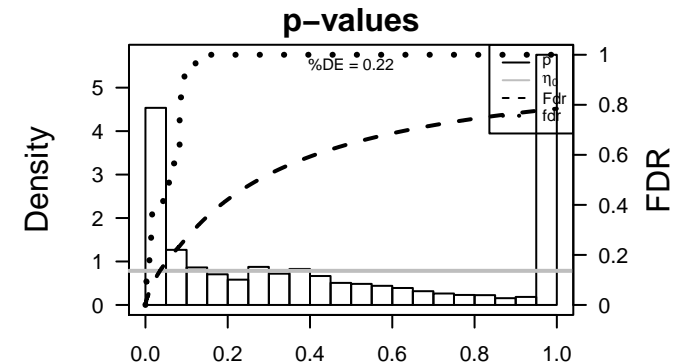


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ILMN_173045	2.93	-1.93	0.31	FOLR3 folate receptor 3 [Source:HGNC Symbol;Acc:HGNC:3795]
2	ILMN_179631	2.16	-1.97	0.78	MMP9 matrix metalloproteinase 9 [Source:HGNC Symbol;Acc:HGNC:6633]
3	ILMN_169658	2.03	-1.31	0.57	
4	ILMN_180121	1.96	-2.45	0.5	S100P S100 calcium binding protein P [Source:HGNC Symbol;Acc:HGNC:10551]
5	ILMN_178573	1.8	-1.22	0.64	
6	ILMN_170160	1.74	-2	0.72	ALPL alkaline phosphatase, liver/bone/kidney [Source:HGNC Symbol;Acc:HGNC:10551]
7	ILMN_174891	1.68	-1.3	0.69	S100A12S100 calcium binding protein A12 [Source:HGNC Symbol;Acc:HGNC:10551]
8	ILMN_176271	1.67	-1.13	0.72	MCEMP1mast cell expressed membrane protein 1 [Source:HGNC Syrr
9	ILMN_240322	1.64	-1.03	0.21	CLEC12A-type lectin domain family 12 member A [Source:HGNC Syrr
10	ILMN_169454	1.63	-1.08	0.79	ANXA3 annexin A3 [Source:HGNC Symbol;Acc:HGNC:541]
11	ILMN_170893	1.62	-1.48	0.74	ADM adrenomedullin [Source:HGNC Symbol;Acc:HGNC:259]
12	ILMN_177525	1.62	-1.53	0.75	PROK2 prokineticin 2 [Source:HGNC Symbol;Acc:HGNC:18455]
13	ILMN_172176	1.57	-1.48	0.46	IL18RAPinterleukin 18 receptor accessory protein [Source:HGNC Syrr
14	ILMN_173399	1.53	-1.22	0.52	DHRS9 dehydrogenase/reductase 9 [Source:HGNC Symbol;Acc:HGNC:6633]
15	ILMN_172111	1.53	-2.22	0.2	
16	ILMN_171681	1.5	-1	0.62	CEACAM6carcinoembryonic antigen related cell adhesion molecule 1 [S
17	ILMN_166163	1.49	-2.04	0.34	
18	ILMN_177213	1.48	-1.25	0.83	IL1R2 interleukin 1 receptor type 2 [Source:HGNC Symbol;Acc:HGNC:6633]
19	ILMN_180522	1.47	-1.18	0.82	LRG1 leucine rich alpha-2-glycoprotein 1 [Source:HGNC Symbol;Acc:HGNC:6633]
20	ILMN_181228	1.46	-0.74	0.69	ARG1 arginase 1 [Source:HGNC Symbol;Acc:HGNC:6633]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-62	68 / 150	Refer Chaussabel_2,6_Myeloid lineage
2	4e-42	103 / 692	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
3	5e-42	64 / 240	Refer Chaussabel_3,3_Inflammation II
4	4e-41	110 / 810	Colon Lembcke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
5	1e-35	55 / 211	Lifest Homuth_BMI-associated-genes_DN
6	7e-34	490 / 10999	Colon TssWk_Colon
7	3e-33	82 / 554	Cancer Lembcke_ColonInflammation
8	6e-33	429 / 9054	Colon Tx_Colon
9	5e-32	50 / 196	GSE/ MCLACHLAN_DENTAL_CARIES_UP
10	8e-32	374 / 7448	Lymph HOPP_Strong_enhancer
11	1e-31	478 / 10779	Colon Enh_Colon
12	1e-29	56 / 282	GSE/ RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_DN
13	1e-29	436 / 9555	Colon TssA_Colon
14	1e-28	48 / 208	GSE/ THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_DN
15	2e-28	51 / 242	Refer Chaussabel_3,2_Inflammation I
16	2e-28	94 / 841	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_UP
17	3e-28	405 / 8678	Colon Quies3_Colon
18	9e-28	190 / 2810	Colon EnhA_Colon
19	9e-28	41 / 150	GSE/ BROWN_MYELOID_CELL_DEVELOPMENT_UP
20	2e-27	399 / 8568	Colon TxWk_Colon
21	1e-26	288 / 5373	Colon EnhWk1_Colon
22	3e-26	51 / 267	Glio WILLSCHER_GBM_Verhaak-CL & MES_up
23	4e-26	41 / 164	GSE/ VERHAAK_AML_WITH_NPM1_MUTATED_UP
24	3e-25	45 / 212	GSE/ RUTELLA_RESPONSE_TO_HGF_DN
25	3e-25	43 / 192	GSE/ MCLACHLAN_DENTAL_CARIES_DN
26	8e-25	352 / 7354	Colon TssF_Colon
27	6e-24	514 / 12741	Chror 7_Enh_Melanocytes
28	1e-23	390 / 8613	Chror 7_Enh_Fibroblasts
29	1e-23	57 / 382	GSE/ MULLIGHAN_MLL_SIGNATURE_2_UP
30	8e-23	58 / 409	GSE/ MARTENS_BOUND_BY_PML_RARA_FUSION
31	9e-23	213 / 3662	CC plasma membrane
32	2e-22	179 / 2845	Colon TxEnhG1_Colon
33	3e-22	52 / 336	BP inflammatory response
34	5e-22	97 / 1081	GSE/ CHEN_METABOLIC_SYNDROM_NETWORK
35	5e-22	417 / 9635	Chror 3_TssF_Fibroblasts
36	1e-21	461 / 11130	Chror 15_Quies_Melanocytes
37	2e-21	53 / 366	GSE/ RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP
38	3e-21	40 / 205	GSE/ ZWANG_CLASS_3_TRANSIENTLY_INDUCED_BY_EGF
39	1e-20	34 / 147	GSE/ SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_UP
40	1e-20	129 / 1797	GSE/ PILON_KLF1_TARGETS_DN



Correlation Cluster

Spot Summary: H

metagenes = 59
genes = 535

<r> metagenes = 0.94

<r> genes = 0.33

beta: r2= 21.18 / log p= -Inf

samples with spot = 753 (22.2 %)

A * : 54 (15.7 %)

A C * : 63 (19.2 %)

A C F * : 3 (1.3 %)

A F * : 18 (5.8 %)

C F * : 65 (24.5 %)

F * : 90 (16.2 %)

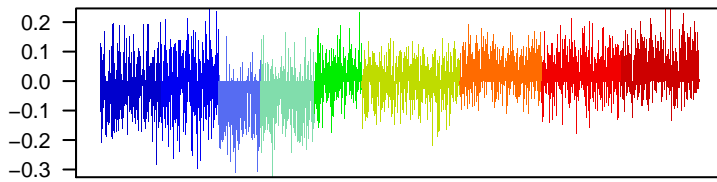
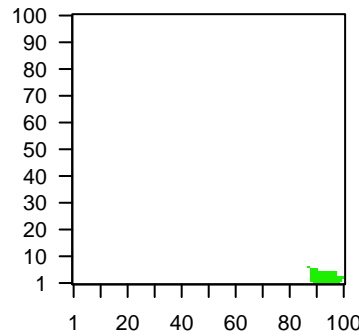
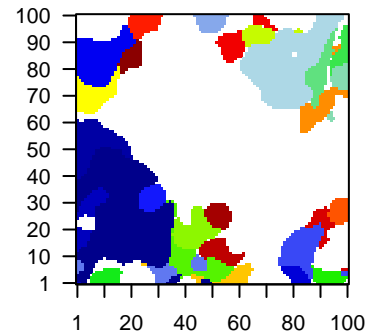
F J * : 155 (33.5 %)

J * : 125 (28 %)

N * : 180 (40.6 %)

Overview Map

Spot

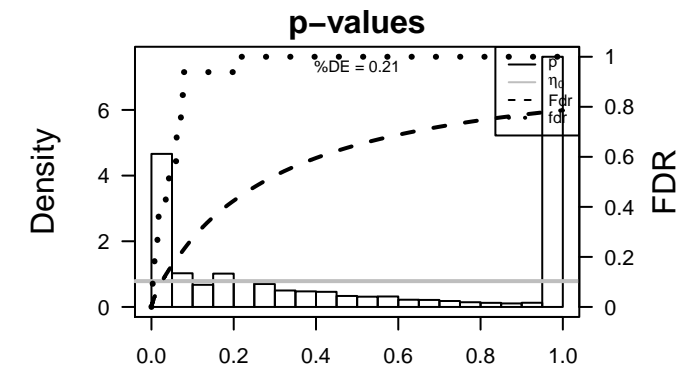


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ILMN_238959	1.51	-2.92	0.19	PRKAR1A protein kinase cAMP-dependent type I regulatory subunit alpha
2	ILMN_175311	1.45	-1.67	0.74	NAMPT nicotinamide phosphoribosyltransferase [Source:HGNC Synt
3	ILMN_177844	1.16	-0.92	0.26	FKBP5 FK506 binding protein 5 [Source:HGNC Symbol;Acc:HGNC:3
4	ILMN_166673	1.1	-0.73	0.38	CXCL8 C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc
5	ILMN_183046	1.01	-0.99	0.17	XYLT1 xylosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:1551
6	ILMN_174018	0.95	-0.81	0.63	SNX3 sorting nexin 3 [Source:HGNC Symbol;Acc:HGNC:11174]
7	ILMN_176966	0.89	-0.99	0.28	RAB5C RAB5C, member RAS oncogene family [Source:HGNC Synt
8	ILMN_176896	0.88	-0.95	0.82	
9	ILMN_239571	0.87	-0.96	0.44	ARRB2 arrestin beta 2 [Source:HGNC Symbol;Acc:HGNC:712]
10	ILMN_168870	0.83	-1.13	0.45	PJA2 praja ring finger ubiquitin ligase 2 [Source:HGNC Symbol;Acc
11	ILMN_232085	0.82	-0.7	0.68	UBE2D3 ubiquitin conjugating enzyme E2 D3 [Source:HGNC Symbol;A
12	ILMN_168869	0.81	-0.8	0.67	ZEB2 zinc finger E-box binding homeobox 2 [Source:HGNC Symbc
13	ILMN_227695	0.81	-0.72	0.6	TSC22D3TSC22 domain family member 3 [Source:HGNC Symbol;Acc:
14	ILMN_233336	0.8	-0.66	0.5	MIR6869FK506 binding protein 1A [Source:HGNC Symbol;Acc:HGNC
15	ILMN_220475	0.8	-0.69	0.61	TMX4 thioredoxin related transmembrane protein 4 [Source:HGNC :
16	ILMN_178846	0.8	-0.75	0.39	ARGLU1 arginine and glutamate rich 1 [Source:HGNC Symbol;Acc:HG
17	ILMN_222992	0.79	-0.77	0.64	KIAA155 KIAA1551 [Source:HGNC Symbol;Acc:HGNC:25559]
18	ILMN_178245	0.79	-0.67	0.44	OSBPL8 oxysterol binding protein like 8 [Source:HGNC Symbol;Acc:Hi
19	ILMN_329840	0.79	-0.72	0.49	supervillin pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:
20	ILMN_171410	0.79	-0.89	0.61	TP53NP tumor protein p53 inducible nuclear protein 1 [Source:HGNC

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	344 / 7275	Lymp/ HOPP_Txn_elongation
2	4e-82	351 / 8678	Colon/ Quies3_Colon
3	2e-78	345 / 8568	Colon/ TxWk_Colon
4	1e-76	290 / 5936	Brain/ Overlap_fetal_midbrain_HetRpts
5	2e-76	351 / 9054	Colon/ Tx_Colon
6	2e-75	345 / 8771	Chror/ 5_Tx_Melanocytes
7	4e-74	361 / 9815	Brain/ Overlap_fetal_midbrain_ReprPC
8	1e-73	333 / 8226	Lymp/ HOPP_Active_promoter
9	9e-72	354 / 9555	Colon/ TssA_Colon
10	4e-71	323 / 7854	Chror/ 5_Tx_Fibroblasts
11	1e-69	374 / 10999	Colon/ TssWk_Colon
12	1e-67	265 / 5356	Lymp/ HOPP_Txn_transition
13	2e-64	351 / 9917	Brain/ Overlap_fetal_midbrain_ReprPCWk
14	4e-64	335 / 8990	Chror/ 15_Quies_Fibroblasts
15	3e-61	371 / 11455	Chror/ 2_TssA_Fibroblasts
16	1e-59	381 / 12298	Chror/ 2_TssA_Melanocytes
17	3e-56	295 / 7448	Lymp/ HOPP_Strong_enhancer
18	2e-55	348 / 10430	Brain/ Overlap_fetal_midbrain_Quies
19	4e-54	282 / 6970	Chror/ 5_Tx_Neural_Progenitor
20	7e-52	381 / 12983	Chror/ 2_TssA_Neural_Progenitor
21	1e-48	93 / 783	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
22	4e-48	349 / 11130	Chror/ 15_Quies_Melanocytes
23	9e-48	295 / 8098	Lymp/ HOPP_Weak_promoter
24	1e-46	371 / 12741	Chror/ 7_Enh_Melanocytes
25	5e-41	358 / 12393	Chror/ 15_Quies_Neural_Progenitor
26	1e-40	349 / 11836	Chror/ 3_TssF_Melanocytes
27	2e-40	125 / 1797	GSE/ PILON_KLF1_TARGETS_DN
28	4e-39	307 / 9504	Brain/ Overlap_fetal_midbrain_K9K27me3
29	7e-39	294 / 8818	MF/ protein binding
30	3e-38	289 / 8613	Chror/ 7_Enh_Fibroblasts
31	1e-37	80 / 763	GSE/ BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
32	2e-36	225 / 5699	Chror/ 6_EnhG_Melanocytes
33	3e-31	234 / 6559	Lymp/ HOPP_Weak_txn
34	6e-30	91 / 1265	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
35	1e-29	55 / 442	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
36	1e-27	50 / 388	GSE/ SHEN_SMARCA2_TARGETS_UP
37	6e-27	61 / 622	GSE/ SCHLOSSER_SERUM_RESPONSE_DN
38	1e-26	67 / 770	GSE/ CUI_TCF21_TARGETS_2_DN
39	3e-26	232 / 6959	Lymp/ HOPP_Weak_enhancer
40	6e-25	55 / 546	miRN/ hsa-miR-93



Aging Rank	p-value	#in/all	Geneset
1	0.05	5 / 111	HORVATH_aging_genes_meth_DOWN
2	0.33	1 / 142	HORVATH_aging_genes_meth_UP
3	1.00	0 / 58	TESCHENDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Cancer Rank	p-value	#in/all	Geneset
1	1e-08	23 / 301	SPANG_BCL6-index2
2	1e-06	15 / 178	SPANG_LPS-index2
3	2e-06	12 / 1117	PanCan_Driver_Gene_geneset_nanostring
4	8e-06	5 / 16	GENTLES_modul14
5	1e-04	10 / 125	PanCan_CC+Apopt_geneset_nanostring
6	8e-04	7 / 82	PanCan_JAK-ST_geneset_nanostring
7	2e-03	3 / 13	GENTLES_modul12
8	4e-03	8 / 1345	2_TssA_Fibroblasts
9	8e-03	8 / 150	PanCan_MAPK_geneset_nanostring
10	1e-02	18 / 554	Lembcke_ColonInflammation
11	3e-02	8 / 193	PanCan_Pi3K_geneset_nanostring
12	5e-02	4 / 76	PanCan_Wnt_geneset_nanostring
13	5e-02	2 / 20	PanCan_ChromMod_geneset_nanostring
14	1e-01	1 / 6	ZHANG_MGUS_up
15	2e-01	2 / 39	ZHANG_MM_up

Chromatin states Rank	p-value	#in/all	Geneset
1	2e-75	345 / 8771	5_Tx_Melanocytes
2	4e-71	323 / 7854	5_Tx_Fibroblasts
3	4e-64	335 / 8990	15_Quies_Fibroblasts
4	3e-61	371 / 11455	2_TssA_Melanocytes
5	1e-59	871 / 12298	5_Tx_Neural_Progenitor
6	4e-54	282 / 6970	2_TssA_Neural_Progenitor
7	7e-52	381 / 12983	15_Quies_Melanocytes
8	4e-48	349 / 11130	7_Enh_Melanocytes
9	1e-46	371 / 12741	15_Quies_Neural_Progenitor
10	5e-45	358 / 12393	3_TssF_Melanocytes
11	1e-40	349 / 11836	7_Enh_Fibroblasts
12	3e-38	289 / 8613	6_EnhG_Melanocytes
13	2e-36	225 / 5699	4_ZNF_Melanocytes
14	1e-22	163 / 4237	3_TssF_Fibroblasts
15	1e-17	264 / 9635	

GSEA C Rank	p-value	#in/all	Geneset
1	1e-48	93 / 783	DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
2	2e-40	125 / 1797	PILON_KLF1_TARGETS_DN
3	1e-37	80 / 763	BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
4	6e-30	91 / 1265	DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
5	1e-29	55 / 442	DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
6	1e-27	26 / 201	SCHLOSSER_SERUM_RESPONSE_DN
7	6e-27	81 / 622	CUI_TCF21_TARGETS_2_DN
8	1e-26	67 / 770	FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP
9	2e-23	51 / 498	GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_DN
10	6e-22	90 / 1601	HOPP_Active_promoter
11	2e-19	36 / 291	HOPP_Txn_transition
12	5e-19	47 / 432	HOPP_Strong_enhancer
13	9e-19	73 / 1241	HOPP_Weak_promoter
14	1e-17	43 / 482	HOPP_Weak_txn
15	8e-17	65 / 1104	HOPP_Weak_enhancer

Lymphoma Rank	p-value	#in/all	Geneset
1	1e-99	344 / 7275	HOPP_Txn_elongation
2	1e-77	333 / 8226	HOPP_Active_promoter
3	1e-67	265 / 6356	HOPP_Txn_transition
4	3e-56	295 / 7448	HOPP_Strong_enhancer
5	9e-48	295 / 8098	HOPP_Weak_promoter
6	3e-31	234 / 6559	HOPP_Weak_txn
7	3e-26	232 / 6959	HOPP_Weak_enhancer
8	2e-17	67 / 1169	SPANG_BCR_DN
9	2e-12	36 / 493	WIRTH_lymphoma937_spot J
10	3e-11	35 / 472	Hopp_June14_MMML937_tumors+controls_group.overexpression_J_GC-B-c
11	5e-11	97 / 2701	HOPP_Repetitive
12	9e-07	19 / 272	SPANG_IL21_DN
13	8e-06	49 / 118	Hopp_June14_MMML937_tumors+controls_group.overexpression_H_GC-B-c
14	9e-06	46 / 1270	SPANG_BCR_UP
15	5e-05	18 / 331	WIRTH_lymphoma937_spot H

miRNA Disease Rank	p-value	#in/all	Geneset
1	0 / 7	0 / 7	Thyroid carcinoma, papillary
2	1	0 / 123	Pancreatic cancer
3	1	0 / 68	Glioblastoma multiforme, somatic
4	1	0 / 63	Gastrointestinal
5	1	0 / 3	Pituitary adenoma
6	1	0 / 116	Cancer
7	1	0 / 95	Colorectal cancer
8	1	0 / 2	Adenomas, multiple colorectal
9	1	0 / 124	Prostate cancer
10	1	0 / 48	Alzheimer disease, susceptibility to
11	1	0 / 7	Schizophrenia, susceptibility to
12	1	0 / 20	Parkinson disease
13	1	0 / 65	Hepatocellular carcinoma
14	1	0 / 1	Down syndrome, risk of
15	1	0 / 127	Melanoma and neural system tumor syndrome

Reference Signatures Rank	p-value	#in/all	Geneset
1	4e-20	28 / 153	Chaussabel_2.9_Cytoskeleton
2	6e-20	37 / 302	Chaussabel_3.4_Protein phosphatases
3	2e-15	37 / 412	WIRTH_Immune system
4	5e-13	26 / 242	Chaussabel_3.2_Inflammation I
5	1e-10	23 / 242	Chaussabel_3.9_Kinases
6	3e-08	50 / 1173	PROTEINATLAS_rectum
7	3e-08	49 / 1138	PROTEINATLAS_small intestine
8	4e-08	20 / 248	Chaussabel_3.6_Mitochondrial ribosomal proteins
9	4e-08	14 / 119	Chaussabel_2.11_Replication
10	5e-08	48 / 1118	PROTEINATLAS_placenta
11	5e-08	50 / 1194	PROTEINATLAS_stomach
12	5e-08	52 / 1268	PROTEINATLAS_colon
13	2e-07	37 / 782	PROTEINATLAS_thyroid gland
14	3e-07	43 / 1003	PROTEINATLAS_appendix
15	5e-07	41 / 960	PROTEINATLAS_cerebellum

BP Rank	p-value	#in/all	Geneset
1	3e-13	35 / 434	protein phosphorylation
2	1e-12	24 / 335	negative regulation of apoptotic process
3	3e-07	17 / 207	small GTPase mediated signal transduction
4	6e-07	20 / 293	positive regulation of gene expression
5	1e-06	27 / 511	apoptotic process
6	2e-06	12 / 119	peptidyl-serine phosphorylation
7	4e-06	7 / 36	peptidyl-lysine phosphorylation
8	4e-06	11 / 106	platelet activation
9	5e-06	7 / 38	signal transduction by protein phosphorylation
10	1e-05	6 / 28	cellular response to nerve growth factor stimulus
11	1e-05	26 / 550	positive regulation of transcription, DNA-templated
12	2e-05	19 / 342	intracellular signal transduction
13	2e-05	11 / 127	regulation of cell shape
14	3e-05	8 / 66	vascular endothelial growth factor receptor signaling pathway
15	3e-05	13 / 181	proteasome-mediated ubiquitin-dependent protein catabolic process

CC Rank	p-value	#in/all	Geneset
1	1e-22	177 / 4822	cytoplasm
2	1e-21	129 / 2979	cytosol
3	2e-18	162 / 4117	nucleus
4	6e-16	105 / 2535	nucleoplasm
5	3e-08	83 / 2464	extracellular exosome
6	2e-07	30 / 561	intracellular membrane-bounded organelle
7	8e-07	67 / 1979	membrane
8	6e-06	14 / 179	nuclear speck
9	8e-06	27 / 571	perinuclear region of cytoplasm
10	3e-05	32 / 788	endoplasmic reticulum membrane
11	5e-05	6 / 37	phagocytotic vesicle
12	6e-05	14 / 221	endosome
13	9e-05	12 / 177	endosome membrane
14	1e-04	30 / 777	Golgi apparatus
15	1e-04	16 / 295	cell-cell adherens junction

Colon Cancer Rank	p-value	#in/all	Geneset
1	4e-82	351 / 8678	Quies3_Colon
2	2e-78	345 / 8568	TxWk_Colon
3	2e-76	351 / 9054	Tx_Colon
4	9e-72	354 / 8555	TssA_Colon
5	1e-69	374 / 10999	TssWk_Colon
6	1e-23	91 / 1547	LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP_a
7	3e-23	74 / 1069	LaPointe_mucosa-position_kmeans_L_transverse_colon_cecum_colon_DN
8	1e-19	290 / 10779	Enh_Colon
9	2e-17	177 / 5373	EnhWk1_Colon
10	6e-16	17 / 468	LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse_colc
11	6e-14	137 / 4034	TssD1_Colon
12	1e-11	199 / 7354	TssF_Colon
13	2e-10	56 / 1216	LaPointe_mucosa-position_kmeans_H_cecum_colon_ascending_colon_UP_
14	9e-10	60 / 1404	LaPointe_mucosa-position_kmeans_D_transverse_colon_UP
15	2e-09	77 / 2073	LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_ti

HM Rank	p-value	#in/all	Geneset
1	2e-04	12 / 185	HALLMARK_TNFA_SIGNALING_VIA_NFKB
2	5e-04	10 / 151	HALLMARK_APOPTOSIS
3	8e-04	9 / 132	HALLMARK_UV_RESPONSE_DN
4	8e-04	11 / 189	HALLMARK_HYPOXIA
5	2e-03	5 / 60	HALLMARK_TGF_BETA_SIGNALING
6	2e-03	12 / 185	HALLMARK_HEMIE_METABOLISM
7	4e-03	8 / 137	HALLMARK_UV_RESPONSE_UP
8	7e-03	6 / 91	HALLMARK_ANDROGEN_RESPONSE
9	8e-03	9 / 187	HALLMARK_COMPLEMENT
10	9e-03	6 / 97	HALLMARK_PI3K_AKT_MTOR_SIGNALING
11	1e-11	8 / 172	HALLMARK_INTERFERON_GAMMA_RESPONSE
12	2e-02	8 / 177	HALLMARK_MITOTIC_SPINDLE
13	2e-02	5 / 87	HALLMARK_PROTEIN_SECRETION
14	4e-02	3 / 41	HALLMARK_REACTIVE_OXYGEN_SPECIES_PATHWAY
15	5e-02	7 / 179	HALLMARK_G2M_CHECKPOINT

Melanoma Rank	p-value	#in/all	Geneset
1	0.008	4 / 43	Hugo_melanoma-BRAFmut-MET_UP
2	0.384	2 / 27	Hugo_melanoma-all-LEF1_UP
3	1.000	0 / 30	Hugo_melanoma-all-MET_UP
4	1.000	0 / 54	Hugo_melanoma-all-MET_DN
5	1.000	0 / 9	Hugo_melanoma-BRAFmut-MET_DN
6	1.000	0 / 8	Hugo_melanoma-BRAFmut-LEF1_UP
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

miRNA target Rank	p-value	#in/all	Geneset
1	6e-25	55 / 546	hsa-miR-93
2	6e-24	42 / 315	hsa-miR-30e
3	8e-24	38 / 250	hsa-miR-548l
4	4e-23	48 / 438	hsa-miR-19a
5	9e-23	47 / 433	hsa-miR-19b
6	2e-22	48 / 463	hsa-miR-301a
7	3e-21	45 / 429	hsa-miR-548n
8	6e-21	40 / 336	hsa-miR-142-5p
9	3e-20	45 / 430	hsa-miR-130a
10	1e-19	35 / 272	hsa-miR-30d
11	3e-19	40 / 374	hsa-miR-144
12	4e-19	50 / 602	hsa-miR-20a
13	7e-19	48 / 561	hsa-miR-20b
14	8e-19	43 / 449	hsa-miR-130b
15	1e-18	37 / 328	hsa-miR-367

Telomeres Rank	p-value	#in/all	Geneset
1	1	0 / 13	Alternative lengthening of telomeres
2	1	0 / 27	Nabetani_alt len telomeres_genes_ko
3	NA	0 / 0	
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Brain Rank	p-value	#in/all	Geneset
1	1e-76	280 / 5936	Overlap_fetal_midbrain_HetRats
2	4e-74	361 / 981	Overlap_fetal_midbrain_ReprPC
3	2e-64	351 / 9917	Overlap_fetal_midbrain_ReprPCWk
4	2e-55	348 / 10430	Overlap_fetal_midbrain_Quies
5	4e-39	307 / 9504	Overlap_fetal_midbrain_K9K27me3
6	2e-07	48 / 1171	Fetal_EnhP
7	9e-07	46 / 1162	Fetal_Enh
8	7e-06	91 / 3164	Mid_Frontal_Lobe_ZNF
9	2e-04	30 / 796	Overlap_fetal_midbrain_ZNF
10	3e-04	45 / 1436	Fetal_K9K27me3
11	2e-03	10 / 180	Overlap_fetal_midbrain_Het
12	2e-03	22 / 681	Overlap_fetal_midbrain_EnhP
13	8e-03	13 / 328	Fetal_Het
14	1e-02	27 / 937	Fetal_EnhG
15	2e-02	19 / 630	Mid_Frontal_Lobe_EnhP

Chr Rank	p-value	#in/all	Geneset
1	0.001	44 / 1492	Chr 2
2	0.027	32 / 1217	Chr 3
3	0.077	24 / 904	Chr 10
4	0.053	11 / 342	Chr 18
5	0.061	30 / 1211	Chr 6
6	0.110	22 / 902	Chr 4
7	0.122	25 / 1060	Chr 5
8	0.173	26 / 1160	Chr 12
9	0.252	17 / 769	Chr 5
10	0.370	17 / 836	Chr 8
11	0.383	26 / 1318	Chr 17
12	0.488	22 / 1170	Chr 7
13	0.570	42 / 2323	Chr 1
14	0.616	5 / 289	Chr 21
15	0.658	13 / 768	Chr 14

Glio Rank	p-value	#in/all	Geneset
1	5e-21	39 / 316	WILLSCHER_GBM_Verhaak-PNwt & CL_up
2	1e-18	97 / 2043	Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
3	2e-14	81 / 1777	Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
4	2e-10	26 / 315	Up
5	8e-06	43 / 820	Sturm_GBM_Meth_overexpression_E_G34_UP
6	7e-04	10 / 157	WILLSCHER_GBM_proteomics_wtOnly_Differencelist

Correlation Cluster

Spot Summary: I

metagenes = 73
genes = 92

<r> metagenes = 0.94
<r> genes = 0.05
beta: r2= 0.41 / log p= -Inf

samples with spot = 1 (0 %)
A C * : 1 (0.3 %)

Spot Genelist

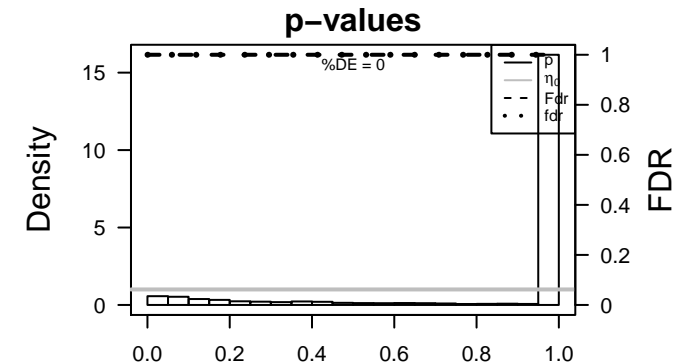
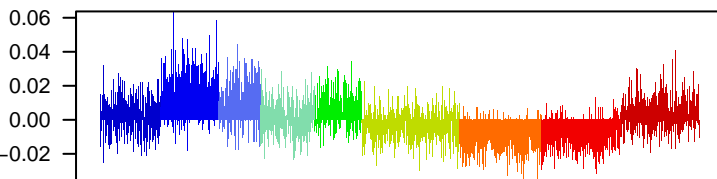
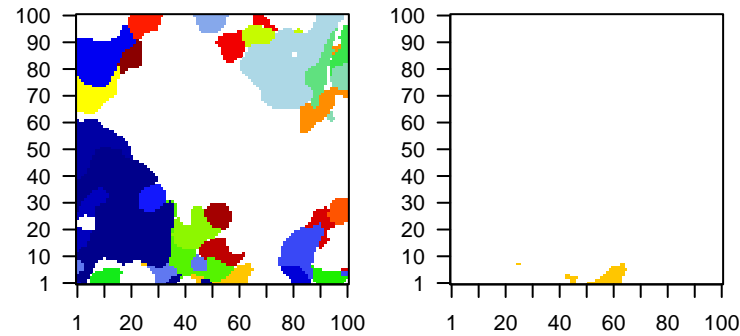
Rank	ID	max e	r	min e	Description
1	ILMN_181019	0.89	-0.38	0.21	PLA2G4 phospholipase A2 group IVC [Source:HGNC Symbol;Acc:HGNC:10242]
2	ILMN_320963	0.56	-0.4	0.23	ribosomal protein L23a pseudogene 49 [Source:HGNC Symbol;Acc:HGNC:10242]
3	ILMN_177556	0.36	-0.21	0.2	CRISP2 cysteine rich secretory protein 2 [Source:HGNC Symbol;Acc:HGNC:10242]
4	ILMN_177407	0.31	-0.25	0.21	CD177 CD177 molecule [Source:HGNC Symbol;Acc:HGNC:30072]
5	ILMN_326605	0.3	-0.27	0.37	PSMA3-AS1 PSMA3 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:10242]
6	ILMN_175583	0.29	-0.24	0.24	FEN1 flap structure-specific endonuclease 1 [Source:HGNC Symbol;Acc:HGNC:10242]
7	ILMN_235838	0.28	-0.29	0.38	ZFYVE1 zinc finger FYVE-type containing 1 [Source:HGNC Symbol;Acc:HGNC:10242]
8	ILMN_185656	0.27	-0.23	0.44	JARID2 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:10242]
9	ILMN_173840	0.27	-0.17	0.26	FOXC1 forkhead box C1 [Source:HGNC Symbol;Acc:HGNC:3800]
10	ILMN_165868	0.26	-0.17	0.18	HYDIN2, axonemal central pair apparatus protein (pseudogene) [Source:HGNC Symbol;Acc:HGNC:10242]
11	ILMN_177747	0.26	-0.17	0.2	
12	ILMN_330174	0.25	-0.19	0.31	SPNS2 sphingolipid transporter 2 [Source:HGNC Symbol;Acc:HGNC:10242]
13	ILMN_330215	0.25	-0.18	0.26	
14	ILMN_178936	0.25	-0.17	0.17	PKD2L1 polycystin 2 like 1, transient receptor potential cation channel [Source:HGNC Symbol;Acc:HGNC:10242]
15	ILMN_166402	0.24	-0.16	0.29	
16	ILMN_168513	0.24	-0.15	0.24	
17	ILMN_173523	0.24	-0.17	0.2	ZSWIM4 zinc finger SWIM-type containing 4 [Source:HGNC Symbol;Acc:HGNC:10242]
18	ILMN_179956	0.24	-0.17	0.27	LIMS1 LIM zinc finger domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10242]
19	ILMN_169241	0.24	-0.2	0.25	NMNAT1 nicotinamide nucleotide adenyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:10242]
20	ILMN_180089	0.23	-0.15	0.24	ARG2 arginase 2 [Source:HGNC Symbol;Acc:HGNC:664]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-04	4 / 96	GSE# MATZUK_SPERMATOZOEA
2	4e-04	2 / 11	Glio WILLSCHER_GBM_LTSwt_proteomics-G_UP
3	6e-04	3 / 59	BP response to cytokine
4	8e-04	2 / 15	GSE# PID_LPA4_PATHWAY
5	9e-04	2 / 16	BP neural crest cell development
6	1e-03	2 / 17	BP activation of protein kinase A activity
7	1e-03	2 / 17	Refer VAQUERIZAS_Salivary gland_TF
8	1e-03	2 / 17	GSE# REACTOME_PKA_MEDIATED_PHOSPHORYLATION_OF_CREB
9	1e-03	2 / 18	GSE# TOMIDA_METASTASIS_DN
10	1e-03	2 / 19	BP hindbrain development
11	1e-03	2 / 20	GSE# TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_M
12	2e-03	2 / 21	CC calcium channel complex
13	2e-03	2 / 23	BP negative regulation of mitotic cell cycle
14	2e-03	2 / 24	Refer VAQUERIZAS_Trachea_TF
15	2e-03	3 / 91	CC perikaryon
16	3e-03	2 / 28	GSE# REACTOME_CA_DEPENDENT_EVENTS
17	3e-03	2 / 30	BP renal water homeostasis
18	3e-03	2 / 30	GSE# REACTOME_DAG_AND_IP3_SIGNALING
19	4e-03	2 / 31	GSE# PID_INTEGRIN_A4B1_PATHWAY
20	4e-03	2 / 31	GSE# REACTOME_GLUCAGON_SIGNALING_IN_METABOLIC_REGULATION
21	4e-03	2 / 31	GSE# DOANE_BREAST_CANCER_CLASSES_DN
22	4e-03	3 / 110	miRN hsa-miR-190b
23	5e-03	2 / 37	BP cellular response to glucagon stimulus
24	6e-03	2 / 39	BP RNA phosphodiester bond hydrolysis, endonucleolytic
25	6e-03	2 / 40	GSE# KEGG_VASOPRESSIN_REGULATED_WATER_REABSORPTION
26	6e-03	2 / 40	GSE# REACTOME_PLC_BETA_MEDIATED_EVENTS
27	6e-03	2 / 40	GSE# REACTOME_REGULATION_OF_INSULIN_SECRETION_BY_GLUCAGON
28	6e-03	17 / 3173	Color ReprPC_Colon
29	6e-03	2 / 42	BP ureteric bud development
30	6e-03	2 / 42	GSE# REACTOME_REGULATION_OF_WATER_BALANCE_BY_RENAL_AQUAPORIN
31	7e-03	21 / 4304	Chror 9_ReprPCWk_Melanocytes
32	7e-03	2 / 43	BP somitogenesis
33	7e-03	2 / 43	GSE# KEGG_TASTE_TRANSDUCTION
34	7e-03	4 / 265	GSE# ACEVEDO_FGFR1_TARGETS_IN_PROSTATE_CANCER_MODEL_UP
35	7e-03	2 / 45	MF cytoskeletal protein binding
36	7e-03	3 / 139	Lymp Hopp_June14_MMML937_tumors+controls_group.overexpression_F_FL_to
37	8e-03	3 / 141	Lymp WIRTH_lymphoma937_spot F
38	8e-03	2 / 48	GSE# REACTOME_AQUAPORIN_MEDIATED_TRANSPORT
39	8e-03	2 / 48	GSE# GRABARCZYK_BCL11B_TARGETS_DN
40	8e-03	20 / 4107	Chror 9_ReprPCWk_Fibroblasts

Overview Map

Spot



Correlation Cluster

Spot Summary: J

metagenes = 1105
genes = 1442

<r> metagenes = 0.92

beta: r2= 17.83 / log p= -Inf

samples with spot = 594 (17.5 %)

A * : 30 (8.7 %)
A C * : 264 (80.5 %)
A C F * : 205 (87.2 %)
A F * : 24 (7.8 %)
C F * : 55 (20.8 %)
N * : 16 (3.6 %)

Spot Genelist

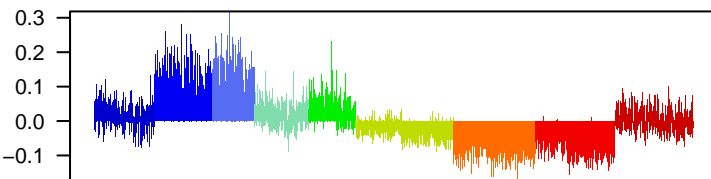
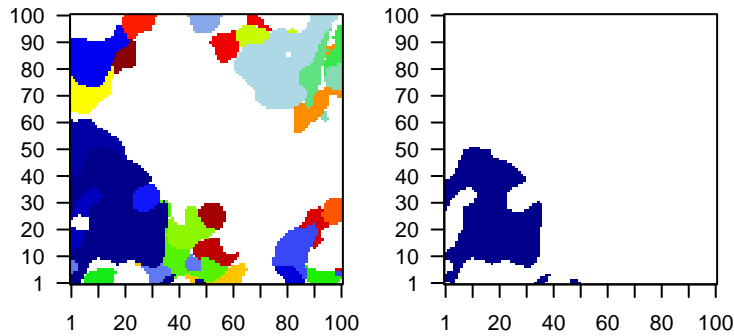
Rank	ID	max e	r	min e	Description
1	ILMN_178314	4.32	-2.71	0.24	
2	ILMN_175553	3.25	-1.79	0.31	EIF1AY eukaryotic translation initiation factor 1A, Y-linked [Source:HGNC]
3	ILMN_169326	3.22	-2.11	0.54	
4	ILMN_167935	3.21	-3.04	0.5	DEFA1B defensin alpha 1 [Source:HGNC Symbol;Acc:HGNC:2761]
5	ILMN_219321	3.07	-2.61	0.48	DEFA1B defensin alpha 1 [Source:HGNC Symbol;Acc:HGNC:2761]
6	ILMN_216528	3.02	-1.93	0.48	DEFA1B defensin alpha 1 [Source:HGNC Symbol;Acc:HGNC:2761]
7	ILMN_172566	2.96	-2.08	0.48	DEFA1B defensin alpha 1 [Source:HGNC Symbol;Acc:HGNC:2761]
8	ILMN_211687	2.86	-1.31	0.41	OLFM4 olfactomedin 4 [Source:HGNC Symbol;Acc:HGNC:17190]
9	ILMN_323841	2.6	-1.51	0.21	RPS4Y1 ribosomal protein S4, Y-linked 1 [Source:HGNC Symbol;Acc:HGNC:2761]
10	ILMN_168858	2.54	-1.91	0.6	CAMP cathelicidin antimicrobial peptide [Source:HGNC Symbol;Acc:HGNC:2761]
11	ILMN_175334	2.49	-1.4	0.44	
12	ILMN_169222	2.41	-1.48	0.6	
13	ILMN_170663	2.3	-1.37	0.54	ELANE elastase, neutrophil expressed [Source:HGNC Symbol;Acc:HGNC:2761]
14	ILMN_180605	2.07	-0.98	0.42	CEACAM6 carcinoembryonic antigen related cell adhesion molecule 8 [Source:HGNC Symbol;Acc:HGNC:2761]
15	ILMN_219133	1.92	-1.09	0.24	RPS4Y2 ribosomal protein S4, Y-linked 2 [Source:HGNC Symbol;Acc:HGNC:2761]
16	ILMN_168042	1.9	-0.91	0.43	CTSG cathepsin G [Source:HGNC Symbol;Acc:HGNC:2532]
17	ILMN_210272	1.79	-0.83	0.46	DEFA1B defensin alpha 1 [Source:HGNC Symbol;Acc:HGNC:2761]
18	ILMN_165487	1.7	-1.92	0.28	CLC Charcot-Leyden crystal galectin [Source:HGNC Symbol;Acc:HGNC:2761]
19	ILMN_176673	1.6	-0.7	0.46	BPI bactericidal/permeability-increasing protein [Source:HGNC Symbol;Acc:HGNC:2761]
20	ILMN_168569	1.57	-0.79	0.24	KDM5D lysine demethylase 5D [Source:HGNC Symbol;Acc:HGNC:11000]

Geneset Overrepresentation

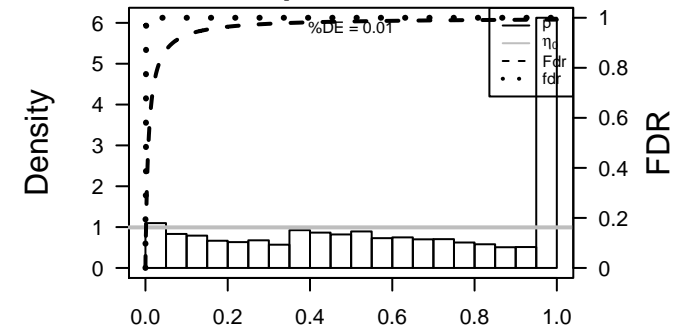
Rank	p-value	#in/all	Geneset
1	1e-17	215 / 2845	Colon TxEnhG1_Colon
2	8e-13	197 / 2810	Colon EnhA_Colon
3	2e-12	361 / 6138	Colon TssD2_Colon
4	6e-12	227 / 3450	Chror 4_TxTrans_Fibroblasts
5	2e-11	412 / 7354	Colon TssF_Colon
6	1e-10	331 / 5699	Chror 6_EnhG_Melanocytes
7	2e-10	287 / 4795	Chror 6_EnhG_Fibroblasts
8	3e-09	142 / 2028	Chror 4_TxTrans_Melanocytes
9	3e-09	201 / 3164	Brain Mid_Frontal_Lobe_ZNF
10	3e-09	551 / 10779	Colon Enh_Colon
11	2e-08	174 / 2709	Brain Mid_Frontal_Lobe_HetRpts
12	3e-08	303 / 5373	Colon EnhWk1_Colon
13	4e-08	6 / 7	GSE/ MARTINELLI_IMMATURE_NEUTROPHIL_UP
14	6e-08	69 / 818	Brain Mid_Frontal_Lobe_Het
15	1e-07	327 / 5956	Chror 3_TssF_Neural_Progenitor
16	4e-07	117 / 1728	Brain Fetal_ReprPCWk
17	5e-07	11 / 39	Refer Chaussabel_2_2_Neutrophils
18	5e-07	462 / 9054	Colon Tx_Colon
19	1e-06	599 / 12298	Chror 2_TssA_Melanocytes
20	4e-06	576 / 11836	Chror 3_TssF_Melanocytes
21	5e-06	20 / 147	Lifest Homuth_BMI-associated-genes_UP
22	7e-06	622 / 12983	Chror 2_TssA_Neural_Progenitor
23	8e-06	75 / 1043	GSE/ GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_UP
24	1e-05	26 / 237	GSE/ LU_EZH2_TARGETS_UP
25	1e-05	7 / 20	GSE/ LIAN_NEUTROPHIL_GRANULE_CONSTITUENTS
26	1e-05	555 / 11455	Chror 2_TssA_Fibroblasts
27	2e-05	227 / 4112	Brain Mid_Frontal_Lobe_ReprPC
28	2e-05	476 / 9635	Chror 3_TssF_Fibroblasts
29	2e-05	7 / 21	GSE/ REACTOME_REGULATORY_RNA_PATHWAYS
30	2e-05	55 / 713	Color Lembecke_TCGA-expr_kmeans_H_CIMP_H_UP_Cluster3_DN
31	2e-05	6 / 15	GSE/ LIU_IL13_MEMORY_MODEL_UP
32	2e-05	570 / 11847	Chror 7_Enh_Neural_Progenitor
33	3e-05	11 / 58	GSE/ ZHANG_GATA6_TARGETS_DN
34	4e-05	95 / 1470	Color LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_cecum_colon
35	4e-05	45 / 558	GSE/ GRAESSMANN_RESPONSE_TO_MC_AND_DOXORUBICIN_UP
36	5e-05	507 / 10430	Brain Overlap_fetal_midbrain_Quies
37	5e-05	21 / 185	HM HALLMARK_HEME_METABOLISM
38	8e-05	57 / 789	Colon TxEnhG2_Colon
39	9e-05	5 / 12	CC specific granule
40	9e-05	5 / 12	miRN hsa-miR-652

Overview Map

Spot



p-values



Correlation Cluster

Spot Summary: K

metagenes = 219
genes = 606

<r> metagenes = 0.93
<r> genes = 0.06
beta: r2= 0.77 / log p= -Inf

samples with spot = 10 (0.3 %)
AC*: 6 (1.8 %)
ACF*: 3 (1.3 %)
F*: 1 (0.2 %)

Spot Genelist

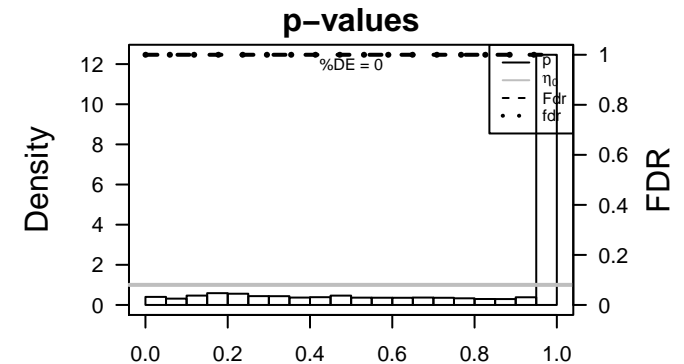
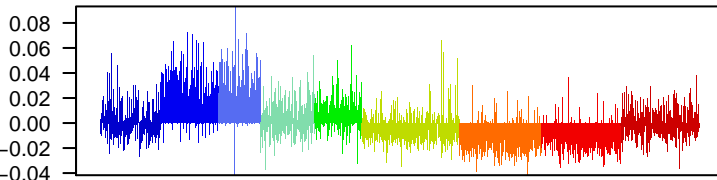
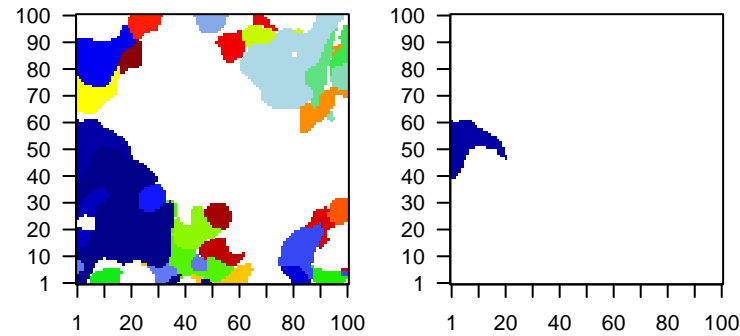
Rank	ID	max e	r	min e	Description
1	ILMN_178470	0.44	-0.27	0.28	MIR452 gamma-aminobutyric acid type A receptor epsilon subunit [S
2	ILMN_165780	0.39	-0.24	0.29	CFH complement factor H [Source:HGNC Symbol;Acc:HGNC:488:
3	ILMN_180492	0.39	-0.27	0.39	OXTR oxytocin receptor [Source:HGNC Symbol;Acc:HGNC:8529]
4	ILMN_167875	0.38	-0.26	0.44	PFDN2 prefoldin subunit 2 [Source:HGNC Symbol;Acc:HGNC:8867]
5	ILMN_169097	0.37	-0.21	0.49	
6	ILMN_177633	0.37	-0.27	0.47	UXS1 UDP-glucuronate decarboxylase 1 [Source:HGNC Symbol;A
7	ILMN_187880	0.36	-0.22	0.54	
8	ILMN_166264	0.36	-0.31	0.2	metallothionein 1 pseudogene 3 [Source:HGNC Symbol;Acc:
9	ILMN_324794	0.36	-0.27	0.37	GOLGA7 golgin A7 family member B [Source:HGNC Symbol;Acc:HGNC
10	ILMN_167769	0.35	-0.23	0.48	
11	ILMN_189591	0.35	-0.29	0.57	
12	ILMN_318212	0.35	-0.25	0.5	
13	ILMN_172168	0.35	-0.25	0.46	
14	ILMN_320086	0.34	-0.24	0.22	GSE1 Gse1 coiled-coil protein [Source:HGNC Symbol;Acc:HGNC:2
15	ILMN_168085	0.34	-0.33	0.14	
16	ILMN_328896	0.34	-0.2	0.45	LINC01434ng intergenic non-protein coding RNA 1451 [Source:HGNC
17	ILMN_212874	0.34	-0.28	0.21	RDH11 retinol dehydrogenase 11 (all-trans/9-cis/11-cis) [Source:HC
18	ILMN_170164	0.34	-0.26	0.46	PCDHGB6 protocadherin gamma subfamily B, 6 [Source:HGNC Symbol;
19	ILMN_324467	0.34	-0.26	0.46	SNORA58 small nucleolar RNA, H/ACA box 5B [Source:HGNC Symbol;
20	ILMN_174325	0.34	-0.24	0.24	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	9e-06	111 / 5384	Lymph HOPP_Repressed
2	1e-05	93 / 4304	Chror 9_ReprPCWk_Melanocytes
3	1e-05	78 / 3438	Chror 10_ReprPC_Melanocytes
4	2e-05	90 / 4169	Chror 10_ReprPC_Fibroblasts
5	2e-05	81 / 3639	Chror 1_TssP_Fibroblasts
6	3e-05	70 / 3068	Chror 8_EnhP_Fibroblasts
7	7e-05	7 / 72	GSE/ RODRIGUES_THYROID_CARCINOMA_DN
8	1e-04	60 / 2620	Chror 1_TssP_Neural_Progenitor
9	3e-04	74 / 3523	Chror 1_TssP_Melanocytes
10	3e-04	4 / 23	BP vesicle docking involved in exocytosis
11	5e-04	56 / 2516	Chror 11_K9K27me3_Melanocytes
12	6e-04	7 / 100	GSE/ RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATELY_DN
13	6e-04	58 / 2660	Chror 8_EnhP_Melanocytes
14	8e-04	66 / 3173	Color ReprPC_Colon
15	9e-04	44 / 1895	Color EnhP_Colon
16	9e-04	51 / 2297	Chror 10_ReprPC_Neural_Progenitor
17	1e-03	74 / 3691	Chror 9_ReprPCWk_Neural_Progenitor
18	1e-03	3 / 15	GSE/ MURAKAMI_UV_RESPONSE_1HR_UP
19	2e-03	3 / 18	BP positive regulation of dendritic spine development
20	2e-03	4 / 40	GSE/ ULE_SPLICING_VIA_NOVA2
21	3e-03	3 / 21	BP cholesterol transport
22	3e-03	3 / 21	GSE/ HOFMANN_MYELODYPLASTIC_SYNDROM_LOW_RISK_UP
23	3e-03	55 / 2682	Chror 12_Het_Neural_Progenitor
24	4e-03	54 / 2630	Brain Fetal_TssF
25	4e-03	78 / 4107	Chror 9_ReprPCWk_Fibroblasts
26	4e-03	59 / 2939	Lymph HOPP_Poised_promoter
27	4e-03	16 / 536	GSE/ MIKKELSEN_MEF_HCP_WITH_H3K27ME3
28	5e-03	33 / 1448	GSE/ ZWANG_TRANSIENTLY_UP_BY_2ND_EGF_PULSE_ONLY
29	5e-03	4 / 49	CC lateral plasma membrane
30	5e-03	3 / 25	BP calcium-dependent cell-cell adhesion via plasma membrane cell adhesion
31	5e-03	3 / 25	GSE/ IIZUKA_LIVER_CANCER_PROGRESSION_G2_G3_UP
32	5e-03	27 / 1119	Brain Overlap_fetal_midbrain_TssA
33	6e-03	3 / 27	BP positive regulation of extrinsic apoptotic signaling pathway
34	6e-03	3 / 27	GSE/ NAKAYAMA_FGF2_TARGETS
35	7e-03	5 / 83	CC voltage-gated potassium channel complex
36	7e-03	63 / 3272	Chror 13_HetRpts_Neural_Progenitor
37	7e-03	14 / 465	Brain Mid_Frontal_Lobe_TxTrans
38	7e-03	8 / 196	CC postsynaptic membrane
39	7e-03	3 / 28	BP telencephalon development
40	7e-03	9 / 238	GSE/ JAEGER_METASTASIS_DN

Overview Map

Spot



Correlation Cluster

Spot Summary: L

metagenes = 108
genes = 837

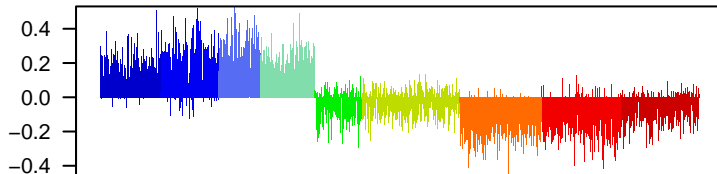
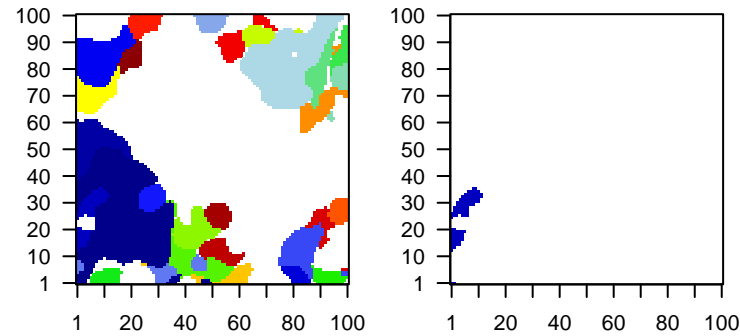
<r> metagenes = 0.95
<r> genes = 0.42
beta: r2= 58.98 / log p= -Inf

samples with spot = 1088 (32.1 %)

A* : 267 (77.6 %)
AC* : 252 (76.8 %)
ACF* : 230 (97.9 %)
AF* : 283 (91.9 %)
CF* : 10 (3.8 %)
F* : 34 (6.1 %)
J* : 7 (1.6 %)
N* : 5 (1.1 %)

Overview Map

Spot

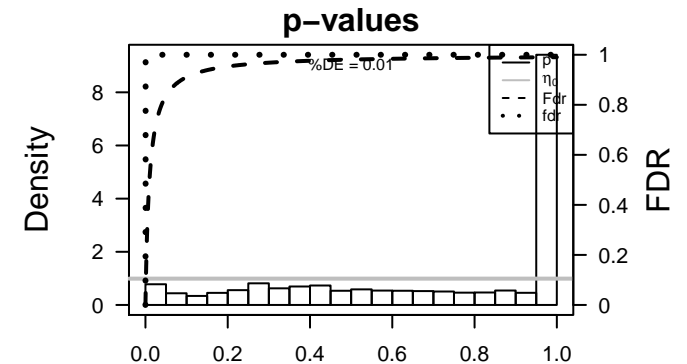


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ILMN_323194	1.5	-1.58	0.94	
2	ILMN_167769	1.49	-1.31	0.96	
3	ILMN_323717	1.48	-1.61	0.95	FAM175A family with sequence similarity 175 member A [Source:HGNC]
4	ILMN_323740	1.46	-1.46	0.95	
5	ILMN_318148	1.44	-1.46	0.92	LOC102730688 A6 family-like 1 [Source:HGNC Symbol;Acc:HGNC:37]
6	ILMN_327479	1.42	-1.12	0.96	ACTG1P1 protein gamma 1 pseudogene 17 [Source:HGNC Symbol;Acc:HGNC:327479]
7	ILMN_172134	1.41	-1.5	0.95	
8	ILMN_218811	1.41	-1.53	0.93	ARL16 ADP ribosylation factor like GTPase 16 [Source:HGNC Symbol;Acc:HGNC:218811]
9	ILMN_228601	1.4	-1.5	0.93	CATSPER2 catenin channel sperm associated 2 [Source:HGNC Symbol;Acc:HGNC:228601]
10	ILMN_187241	1.4	-1.22	0.88	
11	ILMN_329421	1.39	-1.29	0.97	
12	ILMN_212355	1.38	-1.32	0.95	
13	ILMN_205455	1.38	-1.41	0.96	DTWD2 DTW domain containing 2 [Source:HGNC Symbol;Acc:HGNC:205455]
14	ILMN_329841	1.38	-1.2	0.96	
15	ILMN_212251	1.37	-1.45	0.9	CCBE1 collagen and calcium binding EGF domains 1 [Source:HGNC Symbol;Acc:HGNC:212251]
16	ILMN_215029	1.37	-1.43	0.9	FKBP14 FK506 binding protein 14 [Source:HGNC Symbol;Acc:HGNC:215029]
17	ILMN_207354	1.35	-1.37	0.95	SERF2 small EDRK-rich factor 2 [Source:HGNC Symbol;Acc:HGNC:207354]
18	ILMN_321318	1.35	-1.43	0.95	
19	ILMN_215046	1.35	-1.28	0.84	TMEM267 transmembrane protein 267 [Source:HGNC Symbol;Acc:HGNC:215046]
20	ILMN_207579	1.34	-1.33	0.93	NLRP8 NLR family pyrin domain containing 8 [Source:HGNC Symbol;Acc:HGNC:207579]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-26	56 / 360	GSE# LU_EZH2_TARGETS_DN
2	1e-24	367 / 9054	Colon Tx_Colon
3	1e-19	339 / 8568	Colon TxWk_Colon
4	3e-18	340 / 8771	Chror 5_Tx_Melanocytes
5	4e-17	296 / 7354	Colon TssF_Colon
6	4e-17	151 / 2845	Colon TxEnhG1_Colon
7	5e-17	310 / 7854	Chror 5_Tx_Fibroblasts
8	5e-17	172 / 3450	Chror 4_TxTrans_Fibroblasts
9	2e-16	356 / 9555	Colon TssA_Colon
10	3e-16	243 / 5699	Chror 6_EnhG_Melanocytes
11	5e-16	427 / 12298	Chror 2_TssA_Melanocytes
12	6e-15	286 / 7275	Lymp HOPP_Txn_elongation
13	2e-14	209 / 4795	Chror 6_EnhG_Fibroblasts
14	2e-14	275 / 6970	Chror 5_Tx_Neural_Progenitor
15	2e-13	406 / 11836	Chror 3_TssF_Melanocytes
16	5e-13	240 / 5956	Chror 3_TssF_Neural_Progenitor
17	7e-13	150 / 3164	Brain Mid_Frontal_Lobe_ZNF
18	2e-12	243 / 6138	Colon TssD2_Colon
19	3e-12	339 / 9504	Brain Overlap_fetal_midbrain_K9K27me3
20	4e-12	391 / 11455	Chror 2_TssA_Fibroblasts
21	5e-12	430 / 12983	Chror 2_TssA_Neural_Progenitor
22	8e-12	217 / 5356	Lymp HOPP_Txn_transition
23	3e-11	105 / 2028	Chror 4_TxTrans_Melanocytes
24	1e-10	336 / 9635	Chror 3_TssF_Fibroblasts
25	5e-10	338 / 9815	Brain Overlap_fetal_midbrain_ReprPC
26	6e-10	179 / 4362	TF ICGC_Creb1_targets
27	8e-10	210 / 5383	TF ICGC_Sp1_targets
28	1e-09	80 / 1467	Chr Chr 19
29	1e-09	213 / 5518	TF ICGC_Stat5_targets
30	2e-09	225 / 5936	Brain Overlap_fetal_midbrain_HetRpts
31	2e-09	38 / 472	Lymp Hopp_June14_MMML937_tumors+controls_group.overexpression_J_GC-E
32	5e-09	197 / 5067	TF ICGC_Taf1_targets
33	1e-08	166 / 4131	TF ICGC_Nfatc1_targets
34	2e-08	37 / 493	Lymp WIRTH_lymphoma937_spot J
35	3e-08	188 / 4881	TF ICGC_Atf2_targets
36	4e-08	263 / 7448	Lymp HOPP_Strong_enhancer
37	4e-08	246 / 6868	TF ICGC_Elf1_targets
38	6e-08	284 / 8226	Lymp HOPP_Active_promoter
39	7e-08	203 / 5442	TF ICGC_Pmlsc71910_targets
40	1e-07	203 / 5466	TF ICGC_Nficsc81335_targets



Correlation Cluster

Spot Summary: M

metagenes = 165
genes = 747

<r> metagenes = 0.92
<r> genes = 0.07
beta: r2= 0.72 / log p= -Inf

samples with spot = 6 (0.2 %)

AC*: 2 (0.6 %)

ACF*: 3 (1.3 %)

CF*: 1 (0.4 %)

Spot Genelist

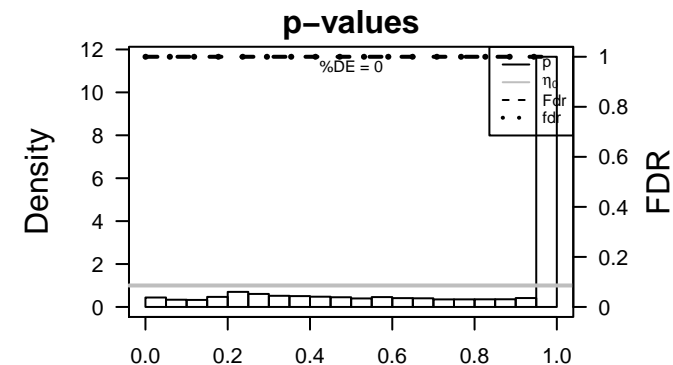
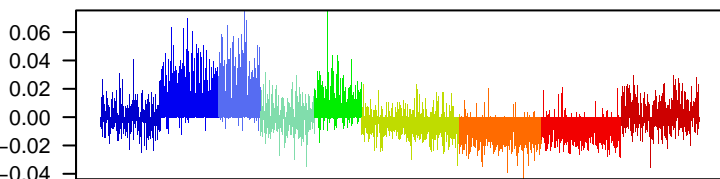
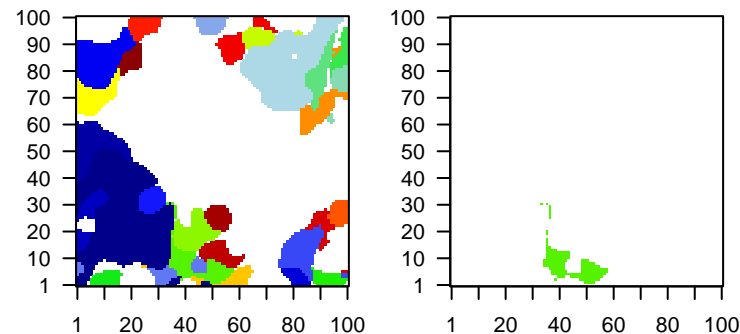
Rank	ID	max e	r	min e	Description
1	ILMN_212539	1.08	-0.27	0.1	ADGRG7adhesion G protein-coupled receptor G7 [Source:HGNC Syrr
2	ILMN_180807	0.62	-0.27	0.08	ADGRG7adhesion G protein-coupled receptor G7 [Source:HGNC Syrr
3	ILMN_321489	0.55	-0.42	0.3	
4	ILMN_169156	0.43	-0.23	0.11	
5	ILMN_175106	0.41	-0.25	0.2	LOC105389277osome 16 open reading frame 54 [Source:HGNC Symt
6	ILMN_165272	0.4	-0.31	0.29	C14orf2 chromosome 14 open reading frame 2 [Source:HGNC Symbc
7	ILMN_172519	0.37	-0.21	0.14	IGFBP2 insulin like growth factor binding protein 2 [Source:HGNC Syr
8	ILMN_174941	0.37	-0.39	0.18	PKP4 plakophilin 4 [Source:HGNC Symbol;Acc:HGNC:9026]
9	ILMN_169347	0.36	-0.21	0.23	KLHL35 kelch like family member 35 [Source:HGNC Symbol;Acc:HGNC
10	ILMN_318514	0.34	-0.2	0.24	CD177 molecule pseudogene 1 [Source:HGNC Symbol;Acc:HGNC
11	ILMN_170311	0.33	-0.18	0.25	PIK3CD-antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC
12	ILMN_168749	0.32	-0.28	0.23	SLC37A1solute carrier family 37 member 1 [Source:HGNC Symbol;Acc
13	ILMN_167329	0.31	-0.18	0.28	ZNF80 zinc finger protein 80 [Source:HGNC Symbol;Acc:HGNC:131:
14	ILMN_325125	0.3	-0.2	0.17	
15	ILMN_168050	0.3	-0.27	0.26	GTF2IRD2TF2I repeat domain containing 2 [Source:HGNC Symbol;Acc
16	ILMN_180095	0.3	-0.2	0.2	PSMD11 proteasome 26S subunit, non-ATPase 11 [Source:HGNC Syr
17	ILMN_165989	0.3	-0.21	0.37	SLC25A26solute carrier family 25 member 26 [Source:HGNC Symbol;Acc
18	ILMN_185799	0.29	-0.19	0.26	
19	ILMN_323317	0.29	-0.28	0.3	
20	ILMN_184616	0.29	-0.22	0.33	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-08	124 / 4169	Chror 10_ReprPC_Fibroblasts
2	3e-08	126 / 4304	Chror 9_ReprPCWk_Melanocytes
3	1e-07	119 / 4107	Chror 9_ReprPCWk_Fibroblasts
4	2e-07	146 / 5384	Lymp1 HOPP_Repressed
5	1e-06	88 / 2894	Colon TssP_Colon
6	1e-06	89 / 2939	Lymp1 HOPP_Poised_promoter
7	2e-06	102 / 3523	Chror 1_TssP_Melanocytes
8	8e-06	89 / 3068	Chror 8_EnhP_Fibroblasts
9	1e-05	79 / 2660	Chror 8_EnhP_Melanocytes
10	2e-05	17 / 279	GSE/ ACEVEDO_FGFR1_TARGETS_IN_PROSTATE_CANCER_MODEL_DN
11	4e-05	8 / 70	GSE/ NAKAYAMA_SOFT_TISSUE_TUMORS_PCA1_DN
12	1e-04	92 / 3438	Chror 10_ReprPC_Melanocytes
13	1e-04	25 / 594	Color Lembecke_TCGA-expr_kmeans_M_CIMP_H_DN
14	1e-04	31 / 819	Brain Overlap_fetal_midbrain_TssP
15	2e-04	85 / 3173	Color ReprPC_Colon
16	2e-04	43 / 1324	Chror 13_HetRpts_Fibroblasts
17	4e-04	24 / 599	Color Lembecke_TCGA_meth_kmeans_J_CIMP_H_DN
18	4e-04	94 / 3639	Chror 1_TssP_Fibroblasts
19	5e-04	38 / 1163	Chror 12_Het_Fibroblasts
20	7e-04	8 / 104	Color Marisa_CRC-cluster-h
21	9e-04	68 / 2516	Chror 11_K9K27me3_Melanocytes
22	9e-04	54 / 1893	Brain Overlap_fetal_midbrain_TssF
23	1e-03	44 / 1476	Brain Overlap_fetal_midbrain_TxTrans
24	1e-03	72 / 2740	Color ReprPCWk_Colon
25	2e-03	4 / 29	BP regulation of lipid metabolic process
26	2e-03	3 / 14	GSE/ REACTOME_NA_CL_DEPENDENT_NEUROTRANSMITTER_TRANSPORT
27	2e-03	76 / 2988	Glio Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
28	2e-03	8 / 125	GSE/ MIKKELSEN_ES_ICP_WITH_H3K4ME3_AND_H3K27ME3
29	2e-03	77 / 3046	Brain Fetal_TssA
30	3e-03	52 / 1895	Color EnhP_Colon
31	3e-03	100 / 4167	Lymp HOPP_Heterochrom
32	3e-03	8 / 130	GSE/ VART_KSHV_INFECTION_ANGIOGENIC_MARKERS_DN
33	3e-03	5 / 53	Glio WILLSCHER_GBM_Verhaak-PNmut_down (G)
34	3e-03	12 / 256	CC apical plasma membrane
35	3e-03	25 / 746	GSE/ MARTENS_TRETINOIN_RESPONSE_UP
36	4e-03	67 / 2620	Chror 1_TssP_Neural_Progenitor
37	4e-03	60 / 2297	Chror 10_ReprPC_Neural_Progenitor
38	4e-03	29 / 924	Brain Mid_Frontal_Lobe_TssF
39	4e-03	3 / 18	MF DNA helicase activity
40	4e-03	3 / 18	BP startle response

Overview Map

Spot



Correlation Cluster

Spot Summary: N

metagenes = 76
genes = 918

<r> metagenes = 0.93
<r> genes = 0.03
beta: r2= 0.23 / log p= -Inf

samples with spot = 1 (0 %)
ACF*: 1 (0.4 %)

Spot Genelist

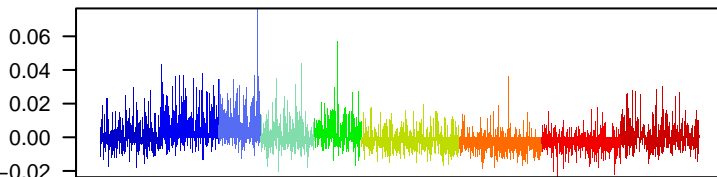
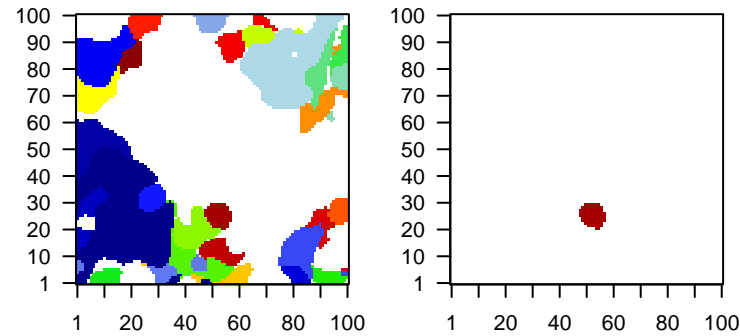
Rank	ID	max e	r	min e	Description
1	ILMN_231025	0.28	-0.2	0.18	
2	ILMN_212483	0.26	-0.17	0.26	TRAT1 T cell receptor associated transmembrane adaptor 1 [Source:HGNC]
3	ILMN_326522	0.26	-0.2	0.2	
4	ILMN_170641	0.26	-0.19	0.21	HUS1B HUS1 checkpoint clamp component B [Source:HGNC]
5	ILMN_211586	0.25	-0.16	0.18	ESPNL espin-like [Source:HGNC]
6	ILMN_168925	0.25	-0.2	0.11	ATL1 atlastin GTPase 1 [Source:HGNC]
7	ILMN_169987	0.25	-0.16	0.23	RAB27A RAB27A, member RAS oncogene family [Source:HGNC]
8	ILMN_171142	0.24	-0.17	0.16	PLEKHN1 pleckstrin homology domain containing N1 [Source:HGNC]
9	ILMN_187067	0.24	-0.17	0.26	
10	ILMN_189644	0.24	-0.18	0.15	
11	ILMN_178251	0.24	-0.17	0.23	TRMT10B RNA methyltransferase 10B [Source:HGNC]
12	ILMN_191639	0.24	-0.17	0.16	
13	ILMN_188326	0.24	-0.17	0.17	MBNL1-AS1 MBNL1 antisense RNA 1 [Source:HGNC]
14	ILMN_204735	0.24	-0.18	0.23	long intergenic non-protein coding RNA 467 [Source:HGNC]
15	ILMN_218377	0.24	-0.19	0.12	CCDC12 coiled-coil domain containing 121 [Source:HGNC]
16	ILMN_206472	0.24	-0.15	0.18	METTL7B methyltransferase like 7B [Source:HGNC]
17	ILMN_184674	0.23	-0.16	0.24	
18	ILMN_187715	0.23	-0.2	0.16	
19	ILMN_175589	0.23	-0.15	0.35	
20	ILMN_173976	0.23	-0.16	0.15	OR13C4 olfactory receptor family 13 subfamily C member 4 [Source:HGNC]

Geneset Overrepresentation

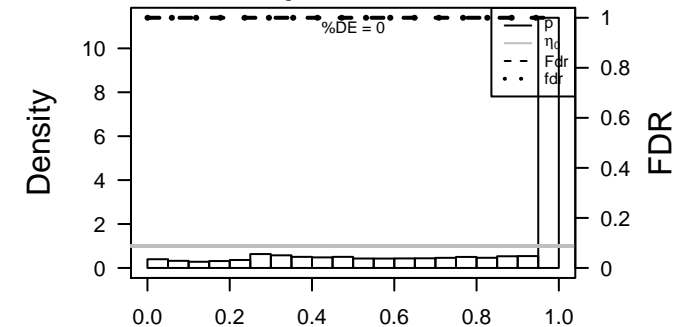
Rank	p-value	#in/all	Geneset
1	7e-06	8 / 40	BP regulation of G-protein coupled receptor protein signaling pathway
2	7e-05	119 / 3272	Chror 13_HetRpts_Neural_Progenitor
3	9e-05	180 / 5384	Lymp HOPE_Repressed
4	4e-04	7 / 52	Lymp Hopp_Lymphoma_Epi1_with_zentr_iv_B.cell_MM_UP
5	6e-04	144 / 4304	Chror 9_ReprPCWk_Melanocytes
6	7e-04	8 / 74	GSE/ ODONNELL_METASTASIS_UP
7	1e-03	5 / 30	BP positive regulation of multicellular organism growth
8	1e-03	67 / 1753	TF HEBENSTREIT_low expression TF
9	1e-03	48 / 1163	Chror 12_Het_Fibroblasts
10	1e-03	6 / 47	CC adherens junction
11	1e-03	10 / 122	BP sensory perception of sound
12	1e-03	46 / 1115	Brain Overlap_fetal_midbrain_EnhG
13	2e-03	4 / 20	BP modulation of synaptic transmission
14	2e-03	11 / 147	BP homophilic cell adhesion via plasma membrane adhesion molecules
15	2e-03	5 / 34	BP excretion
16	2e-03	3 / 10	BP auditory receptor cell stereocilium organization
17	2e-03	52 / 1324	Chror 13_HetRpts_Fibroblasts
18	2e-03	52 / 1329	Brain Overlap_fetal_midbrain_Enh
19	2e-03	82 / 2315	Chror 13_HetRpts_Melanocytes
20	3e-03	5 / 37	BP synapse organization
21	3e-03	92 / 2660	Chror 8_EnhP_Melanocytes
22	3e-03	4 / 24	Lymp Subero_mBL_hypo_meth
23	4e-03	23 / 478	Refer WIRTH_Nervous System
24	4e-03	5 / 41	BP blood circulation
25	4e-03	5 / 41	GSE/ MANTOVANI_NFKB_TARGETS_UP
26	4e-03	31 / 720	GSE/ REACTOME_GPCR_DOWNSTREAM_SIGNALING
27	5e-03	132 / 4107	Chror 9_ReprPCWk_Fibroblasts
28	5e-03	45 / 1154	Chror 11_K9K27me3_Neural_Progenitor
29	5e-03	4 / 27	BP adult behavior
30	5e-03	3 / 14	BP aorta morphogenesis
31	5e-03	3 / 14	BP behavioral response to cocaine
32	5e-03	3 / 14	GSE/ TIMOFEEVA_GROWTH_STRESS_VIA_STAT1_DN
33	6e-03	5 / 45	Lymp Subero_INT_hypo_meth
34	6e-03	2 / 5	GSE/ CASTELLANO_HRAS_TARGETS_UP
35	6e-03	71 / 2031	Chror 12_Het_Melanocytes
36	7e-03	104 / 3173	Color ReprPC_Colon
37	7e-03	85 / 2516	Chror 11_K9K27me3_Melanocytes
38	8e-03	3 / 16	BP estrous cycle
39	8e-03	3 / 16	BP positive regulation of calcium-mediated signaling
40	8e-03	4 / 31	GSE/ STAEGE_EWING_FAMILY_TUMOR

Overview Map

Spot



p-values



Correlation Cluster

Spot Summary: O

metagenes = 77
genes = 422

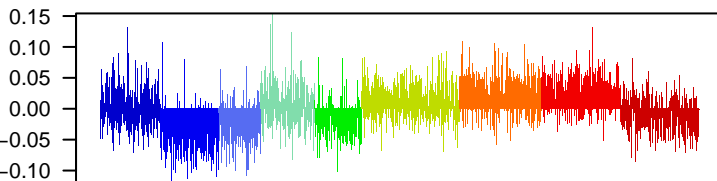
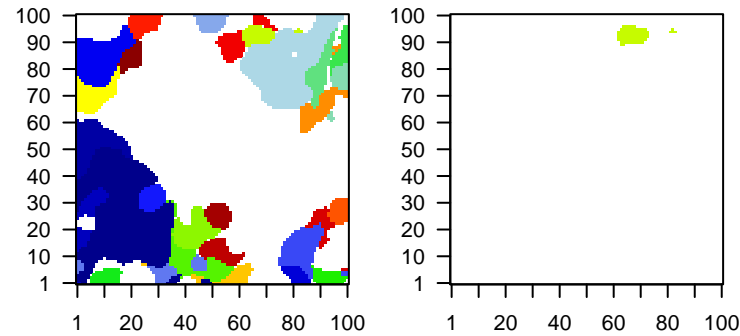
<r> metagenes = 0.95
<r> genes = 0.19
beta: r2= 3.44 / log p= -Inf

samples with spot = 100 (3 %)

- A * : 13 (3.8 %)
- AC * : 2 (0.6 %)
- ACF * : 2 (0.9 %)
- AF * : 8 (2.6 %)
- CF * : 2 (0.8 %)
- F * : 14 (2.5 %)
- FJ * : 29 (6.3 %)
- J * : 29 (6.5 %)
- N * : 1 (0.2 %)

Overview Map

Spot

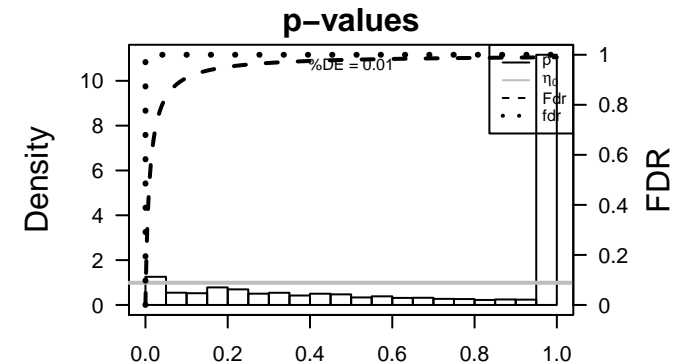


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ILMN_166126	1.62	-1.38	0.21	
2	ILMN_179985	0.75	-0.61	0.26	NOMO3 NODAL modulator 3 [Source:HGNC Symbol;Acc:HGNC:2524
3	ILMN_173005	0.63	-0.55	0.12	
4	ILMN_323822	0.6	-0.43	0.22	
5	ILMN_178023	0.54	-0.38	0.67	PMM1 phosphomannomutase 1 [Source:HGNC Symbol;Acc:HGNC:
6	ILMN_166479	0.54	-0.43	0.35	GRHPR glyoxylate and hydroxypyruvate reductase [Source:HGNC Sy
7	ILMN_180046	0.53	-0.43	0.49	
8	ILMN_168370	0.52	-0.53	0.39	TNFSF12umor necrosis factor superfamily member 12 [Source:HGNC
9	ILMN_168934	0.52	-0.45	0.62	NUBP1 nucleotide binding protein 1 [Source:HGNC Symbol;Acc:HGN
10	ILMN_176423	0.51	-0.43	0.52	GNPTG N-acetylglucosamine-1-phosphate transferase gamma subu
11	ILMN_178918	0.51	-0.38	0.4	
12	ILMN_208641	0.5	-0.36	0.57	
13	ILMN_329369	0.49	-0.3	0.16	MAFF interacting protein (pseudogene) [Source:HGNC Symb
14	ILMN_323826	0.49	-0.41	0.44	NDUFA6 NADH:ubiquinone oxidoreductase subunit A6 [Source:HGNC
15	ILMN_168150	0.48	-0.31	0.58	MCM2 minichromosome maintenance complex component 2 [Source
16	ILMN_166846	0.47	-0.36	0.42	KIAA0922KIAA0922 [Source:HGNC Symbol;Acc:HGNC:29146]
17	ILMN_240324	0.46	-0.66	0.38	CMTM7 CKLF like MARVEL transmembrane domain containing 7 [So
18	ILMN_174932	0.46	-0.33	0.48	MAPK13 mitogen-activated protein kinase 13 [Source:HGNC Symbol;
19	ILMN_324790	0.45	-0.35	0.45	RNF114 ring finger protein 114 [Source:HGNC Symbol;Acc:HGNC:13
20	ILMN_234944	0.45	-0.39	0.32	NUDT2 nudix hydrolase 2 [Source:HGNC Symbol;Acc:HGNC:8049]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-43	254 / 8568	Colon TxWk_Colon
2	4e-43	303 / 12298	Chror 2_TssA_Melanocytes
3	1e-42	260 / 9054	Colon Tx_Colon
4	1e-42	267 / 9555	Colon TssA_Colon
5	4e-41	231 / 7354	Colon TssF_Colon
6	4e-38	286 / 11455	Chror 2_TssA_Fibroblasts
7	9e-38	259 / 9504	Brain Overlap_fetal_midbrain_K9K27me3
8	2e-35	287 / 11836	Chror 3_TssF_Melanocytes
9	5e-35	300 / 12983	Chror 2_TssA_Neural_Progenitor
10	2e-32	170 / 4795	Chror 6_EnhG_Fibroblasts
11	2e-30	184 / 5699	Chror 6_EnhG_Melanocytes
12	3e-29	219 / 7854	Chror 5_Tx_Fibroblasts
13	2e-28	232 / 8771	Chror 5_Tx_Melanocytes
14	2e-27	243 / 9635	Chror 3_TssF_Fibroblasts
15	3e-26	184 / 6138	Color TssD2_Colon
16	5e-25	129 / 3450	Chror 4_TxTrans_Fibroblasts
17	2e-24	249 / 10430	Brain Overlap_fetal_midbrain_Quies
18	7e-24	176 / 5956	Chror 3_TssF_Neural_Progenitor
19	2e-23	193 / 6970	Chror 5_Tx_Neural_Progenitor
20	2e-22	196 / 7275	Lymp HOPP_Txn_elongation
21	2e-22	236 / 9815	Brain Overlap_fetal_midbrain_ReprPC
22	5e-22	249 / 10779	Color Enh_Colon
23	6e-22	110 / 2845	Color TxEnhG1_Colon
24	8e-22	210 / 8226	Lymp HOPP_Active_promoter
25	8e-21	215 / 8678	Color Quies3_Colon
26	2e-20	158 / 5373	Color EnhWk1_Colon
27	2e-19	166 / 5936	Brain Overlap_fetal_midbrain_HetRpts
28	2e-18	148 / 5067	TF ICGC_Taf1_targets
29	2e-17	108 / 3164	Brain Mid_Frontal_Lobe_ZNF
30	5e-17	265 / 12741	Chror 7_Enh_Melanocytes
31	2e-16	259 / 12393	Chror 15_Quies_Neural_Progenitor
32	8e-16	147 / 5356	Lymp HOPP_Txn_transition
33	3e-15	127 / 4362	TF ICGC_Creb1_targets
34	8e-15	128 / 4468	TF ICGC_Egr1_targets
35	5e-14	93 / 2810	Color EnhA_Colon
36	1e-13	75 / 2028	Chror 4_TxTrans_Melanocytes
37	3e-13	142 / 5466	TF ICGC_Nficsc81335_targets
38	7e-13	175 / 7448	Lymp HOPP_Strong_enhancer
39	7e-13	242 / 11847	Chror 7_Enh_Neural_Progenitor
40	8e-13	142 / 5518	TF ICGC_Stat5_targets



Aging Rank p-value #in/all Geneset Hsp90aa1_aging_genes_meth_DOWN, HORVATH_aging_genes_meth_UP, TESCHENDORFF_age_hypermethylated

BP Rank p-value #in/all Geneset biological_process, tumor_necrosis_factor-mediated_signaling_pathway, protein_targeting_to_membrane, apoptotic_DNA_fragmentation, protein_localization_to_organelle, iron-sulfur_cluster_assembly, protein_localization, acyl-CoA_metabolic_process, carbohydrate_phosphorylation, transcription-coupled_nucleotide-excision_repair, RNA_phosphodiester_bond_hydrolysis_endonucleolytic, RNA_catabolic_process, gene_silencing_by_RNA, regulation_of_cellular_amino_acid_metabolic_process, spermatid_development

Brain Rank p-value #in/all Geneset Overlap_fetal_midbrain_K9K27me3, Overlap_fetal_midbrain_Quies, Overlap_fetal_midbrain_ReprC, Overlap_fetal_midbrain_HetRpts, Mid_Frontal_Lobe_ZNF, Overlap_fetal_midbrain_ReprPCWk, Mid_Frontal_Lobe_Het, Mid_Frontal_Lobe_HetRpts, Fetal_ReprPCWk, Overlap_fetal_midbrain_ZNF, Fetal_HetRpts, Mid_Frontal_Lobe_EnhP, Mid_Frontal_Lobe_ReprPC, Fetal_ZNF, Fetal_EnhP

Cancer Rank p-value #in/all Geneset PanCan_HK_geneset_nanostring, Lembeck_Normal_vs_Adenoma, PanCan_CC+Adip_geneset_nanostring, KUIPER_MM_poor_survival, LIU_COMMON_CANCER_GENES, GENTILES_modul5, PanCan_MAPK_geneset_nanostring, SOTIRIOU_BREAST_CANCER_GRADE_1VS_3_DN, WANG_ER_UP, WOLFER_overlap_genes, RHODES_UNDIFFERENTIATED_CANCER, SPANG_BCL6-index2, PanCan_Vint_geneset_nanostring, PanCan_HH_geneset_nanostring, LIU_LIVER_CANCER

CC Rank p-value #in/all Geneset mitochondrion, cytosol, nucleoplasm, nucleus, mitochondrial_inner_membrane, cellular_component, Golgi_membrane, centriole, mitochondrial_matrix, cilium, trans-Golgi_network_membrane, proteasome_complex, integral_component_of_endoplasmic_reticulum_membrane, CD40_receptor_complex, Gemini_of_coiled_bodies

Chr Rank p-value #in/all Geneset Chr 22, Chr 16, Chr 19, Chr 3, Chr 11, Chr 2, Chr 20, Chr 9, Chr 1, Chr 17, Chr 7, Chr 12, Chr 8, Chr 1, Chr Y

Chromatin states Rank p-value #in/all Geneset T_SsA_Melanocytes, T_SsA_Fibroblasts, T_SsF_Melanocytes, T_SsA_Neural_Progenitor, EnhG_Fibroblasts, EnhG_Melanocytes, Tx_Fibroblasts, Tx_Melanocytes, T_SsF_Fibroblasts, TxTrans_Fibroblasts, T_SsF_Neural_Progenitor, T_SsA_Neural_Progenitor, Enh_Melanocytes, Quies_Neural_Progenitor, TxTrans_Melanocytes

Colon Cancer Rank p-value #in/all Geneset TxWk_Colon, Tx_Colon, TssA_Colon, TssD2_Colon, Enh_Colon, TxEnhG1_Colon, Quies3_Colon, EnhWk1_Colon, EnhA_Colon, TssWk_Colon, LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_t, Pentrack_CRC_TCGA_corr_R_normal_DN, LaPointe_mucosa-position_kmeans_J_cecum_colon_ascending_colon_transv, LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP_a

Glio Rank p-value #in/all Geneset Sturm_GBM_Meth_overexpression_E_G34_UP, Hopp_Sturm_GBM_Epi3_E1_tetus_UP_fetus_DN, Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP, Vishal_subnetwork_signature_of_survival_in_GBM, WILLSCHER_GBM_proteomics_wfOnly_SpotG, Hopp_Sturm_GBM_Epi3_B1_G34_DN, WILLSCHER_GBM_proteomics_wfOnly_SpotB, Hopp_Sturm_GBM_Epi3_no_zentr_5_IDH1_UP_fetus_adult_DN, WILLSCHER_GBM_SITSwt_proteomics-N_UP, Mukasa_UP_in_Oligodendrogloma_with_tintact, Hopp_Sturm_GBM_Epi3_C2_adult_fetus_DN, WILLSCHER_GBM_LTSmut_proteomics-B_UP, Donson-immune_cell_intra_signaling-associated_with_LTS_in_HGA, Sturm_GBM_Meth_overexpression_F_IDH1_UP

GSEA C Rank p-value #in/all Geneset PARENT_MTOR_SIGNALING_UP, DANG_BOUND_BY_MYC, BENPORATH_MYC_MAX_TARGETS, IVANOVA_HEMATOPOIESIS_EARLY_PROGENITOR, KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN, MOOHA_HUMAN_MITTOB_6_2002, KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN, GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_DN, STEIN_ESRRA_TARGETS, KRIEG_HYPOXIA_NOT_VIA_KDM3A, NIKOLSKI_BREAST_CANCER_16P13_AMPLICON, LOCKWOOD_AMPLIFIED_IN_LUNG_CANCER, NIKOLSKI_BREAST_CANCER_12Q24_AMPLICON, CASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_DN, SANSOM_APC_MYC_TARGETS

HM Rank p-value #in/all Geneset HALLMARK_MITOTIC_SPINDLE, HALLMARK_TORC1_SIGNALING, HALLMARK_DNA_REPAIR, HALLMARK_FATTY_ACID_METABOLISM, HALLMARK_MYC_TARGETS_V2, HALLMARK_BILE_ACID_METABOLISM, HALLMARK_ESTROGEN_RESPONSE_LATE, HALLMARK_E2F_TARGETS, HALLMARK_PEROXISOME, HALLMARK_XENOBIOTIC_METABOLISM, HALLMARK_G2M_CHECKPOINT, HALLMARK_ADIPOGENESIS, HALLMARK_REACTIVE_OXIGEN_SPECIES_PATHWAY, HALLMARK_ANDROGEN_RESPONSE, HALLMARK_PI3K_AKT_MTOR_SIGNALING

Lifestyle Rank p-value #in/all Geneset DUMEAUX_High_bmi_enriched_genes, DUMEAUX_Smoking_literature_genes_up, DUMEAUX_Smoking_enriched_genes, DUMEAUX_Fasting_enriched_genes, Hornuth_BMI-associated-genes_DN, Hornuth_BMI-associated-genes_UP, DUMEAUX_Exercise_non_smoker_literature_enriched_genes, DUMEAUX_Estrogen_related_in_smokers_literature_genes_up, DUMEAUX_Estrogen_related_in_non_smokers_literature_genes_up, DUMEAUX_Monocytes_in_smokers_literature_genes_up, DUMEAUX_Red_blood_cells_in_non_smokers_literature_genes_up, DUMEAUX_Women_normal_BMI_literature_genes_up, Huan_blood-pressure_SBP_signature, Huan_blood-pressure_DBP_signature

Lymphoma Rank p-value #in/all Geneset HOPP_Txn_elongation, HOPP_Active_promoter, HOPP_Txn_transition, HOPP_Strong_enhancer, HOPP_Weak_promoter, Hopp_June14_MMML937_tumors+controls_group.overexpression_D_cell_line, WIRTH_lymphoma937_spot D, SPANG_BCRN, HOPP_Weak_txn, WIRTH_lymphoma937_spot B, Hopp_June14_MMML937_tumors+controls_group.overexpression_B_cell_line, HOPP_Weak_enhancer, SPANG_BCRN, Hopp_June14_MMML937_tumors+controls_group.overexpression_MM_GC, WIRTH_lymphoma937_spot I

Melanoma Rank p-value #in/all Geneset Hugo_melanoma-all-MET_UP, Hugo_melanoma-all-MET_DN, Hugo_melanoma-BRAFmut-MET_UP, Hugo_melanoma-BRAFmut-MET_DN, Hugo_melanoma-all-LEF1_UP, Hugo_melanoma-BRAFmut-LEF1_UP

MF Rank p-value #in/all Geneset protein_binding, ATP_binding, molecular_function, phosphatidic_acid_binding, tumor_necrosis_factor_receptor_binding, DNA_helicase_activity, protein_kinase_binding, zymase_binding, zinc_ion_binding, tRNA_binding, protein-cysteine_S-palmitoyltransferase_activity, GTP_binding, RNA_binding, glutathione_binding, ribonuclease_P_activity

miRNA Disease Rank p-value #in/all Geneset Carcinoid_tumors_intestinal, Alzheimer_disease_susceptibility_to, Gastrointestinal, Liver_cancer, Melanoma_and_neural_system_tumor_syndrome, Breast_cancer, Thyroid_carcinoma_papillary, Pancreatic_cancer, Glioblastoma_multiforme_somatic, Pituitary_adenoma, Cancer, Colorectal_cancer, Adenomas_multiple_colorectal, Prostate_cancer, Schizophrenia_susceptibility_to

miRNA target Rank p-value #in/all Geneset hsa-miR-671-5p, hsa-miR-940, hsa-miR-515-3p, hsa-miR-1818, hsa-miR-484, hsa-miR-939, hsa-miR-506, hsa-miR-411, hsa-miR-802, hsa-miR-553, hsa-let-7i, hsa-miR-548k, hsa-let-7f, hsa-miR-809, hsa-miR-24-1*

Pathw Act Rank p-value #in/all Geneset BENTINK_src.2, GUSTAFSON_PI3K_UP, GUSTAFSON_PI3K_DN, BENTINK_e2f.1, BENTINK_e2f.2, BENTINK_myc.1, BENTINK_ras.1, BENTINK_ras.4, BENTINK_ras.6, BENTINK_src.10

Reference Signatures Rank p-value #in/all Geneset PROTEINATLAS_bronchus, PROTEINATLAS_small_intestine, PROTEINATLAS_appendix, PROTEINATLAS_rectum, PROTEINATLAS_stomach, PROTEINATLAS_gallbladder, PROTEINATLAS_soft_tissue, PROTEINATLAS_duodenum, Chaussabel_3.7_Spleenosome, PROTEINATLAS_colon, PROTEINATLAS_spleen, PROTEINATLAS_kidney, PROTEINATLAS_tonsil, PROTEINATLAS_adrenal_gland, PROTEINATLAS_testis

Telomeres Rank p-value #in/all Geneset Nabetani_alt_len_telomeres_genes_ko, Alternative_lengthening_of_telomeres

TF Rank p-value #in/all Geneset ICGC_Taf1_targets, ICGC_Creb1_targets, ICGC_Egr1_targets, ICGC_Nficsc81335_targets, ICGC_Snf5_targets, ICGC_Tcf3_targets, ICGC_Elf1_targets, ICGC_Pou2_targets, ICGC_Runx3_targets, ICGC_Prmse71910_targets, ICGC_Bclaf101388_targets, ICGC_Nfat1_targets, ICGC_Mta3_targets, ICGC_Yy1_targets, ICGC_Sp1_targets

Correlation Cluster

Spot Summary: P

metagenes = 161
genes = 1177

<r> metagenes = 0.91

beta: r2= 0.44 / log p= -Inf

samples with spot = 0 (0 %)

Spot Genelist

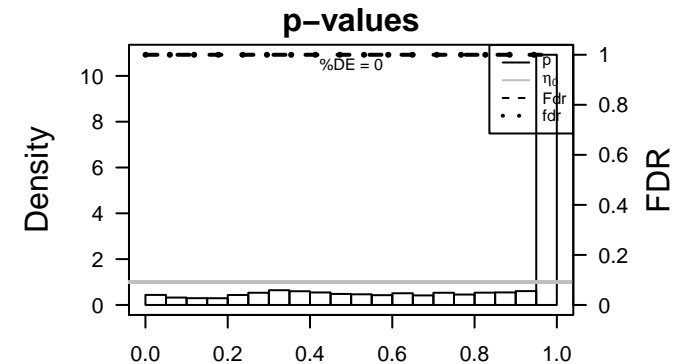
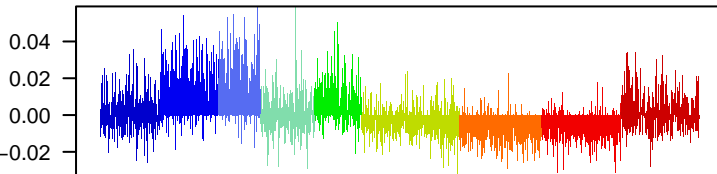
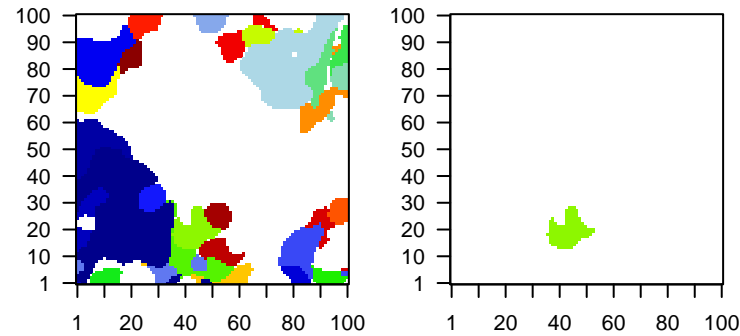
Rank	ID	max e	r	min e	Description
1	ILMN_180882	0.47	-0.2	0.1	NEBL nebulette [Source:HGNC Symbol;Acc:HGNC:16932]
2	ILMN_184313	0.43	-0.19	0.22	
3	ILMN_233658	0.38	-0.2	0.16	
4	ILMN_166114	0.34	-0.18	0.17	
5	ILMN_181203	0.33	-0.18	0.19	PALM paralemm [Source:HGNC Symbol;Acc:HGNC:8594]
6	ILMN_324054	0.33	-0.28	0.32	
7	ILMN_175604	0.3	-0.23	0.13	NT5DC3 5'-nucleotidase domain containing 3 [Source:HGNC Symbol;
8	ILMN_190919	0.3	-0.2	0.27	
9	ILMN_209958	0.3	-0.22	0.5	CCDC28 boiled-coil domain containing 28B [Source:HGNC Symbol;Ac
10	ILMN_177061	0.3	-0.18	0.27	MERTK MER proto-oncogene, tyrosine kinase [Source:HGNC Symbc
11	ILMN_214916	0.29	-0.19	0.15	SFRP1 secreted frizzled related protein 1 [Source:HGNC Symbol;Acc
12	ILMN_167475	0.29	-0.2	0.3	LPCAT4 lysophosphatidylcholine acyltransferase 4 [Source:HGNC Syr
13	ILMN_178838	0.28	-0.18	0.41	UGGT2 UDP-glucose glycoprotein glucosyltransferase 2 [Source:HG
14	ILMN_179530	0.28	-0.19	0.35	ARHGFB7 G-pro guanine nucleotide exchange factor 37 [Source:HGNC S
15	ILMN_172594	0.27	-0.19	0.22	IRF6 interferon regulatory factor 6 [Source:HGNC Symbol;Acc:HGI
16	ILMN_208286	0.27	-0.21	0.37	PLLP plasmolipin [Source:HGNC Symbol;Acc:HGNC:18553]
17	ILMN_323538	0.27	-0.17	0.46	
18	ILMN_175393	0.27	-0.19	0.27	CDO1 cysteine dioxygenase type 1 [Source:HGNC Symbol;Acc:HGI
19	ILMN_166573	0.26	-0.18	0.35	
20	ILMN_176780	0.26	-0.19	0.2	SAMD10 sterile alpha motif domain containing 10 [Source:HGNC Syml

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-07	206 / 5384	Lymph HOPE_Repressed
2	4e-07	116 / 2660	Chror 8_EnhP_Melanocytes
3	4e-06	165 / 4304	Chror 9_ReprPCWk_Melanocytes
4	8e-06	70 / 1476	Brain Overlap_fetal_midbrain_TxTrans
5	3e-05	154 / 4107	Chror 9_ReprPCWk_Fibroblasts
6	5e-05	132 / 3438	Chror 10_ReprPC_Melanocytes
7	9e-05	133 / 3523	Chror 1_TssP_Melanocytes
8	1e-04	136 / 3639	Chror 1_TssP_Fibroblasts
9	3e-04	23 / 366	Colon K9K27me3_Colon
10	5e-04	90 / 2297	Chror 10_ReprPC_Neural_Progenitor
11	5e-04	134 / 3691	Chror 9_ReprPCWk_Neural_Progenitor
12	5e-04	97 / 2516	Chror 11_K9K27me3_Melanocytes
13	5e-04	29 / 536	GSE/ MIKKELSEN_MEF_HCP_WITH_H3K27ME3
14	6e-04	100 / 2620	Chror 1_TssP_Neural_Progenitor
15	6e-04	148 / 4169	Chror 10_ReprPC_Fibroblasts
16	7e-04	51 / 1154	Chror 11_K9K27me3_Neural_Progenitor
17	7e-04	108 / 2894	Color TssP_Colon
18	8e-04	39 / 819	Brain Overlap_fetal_midbrain_TssP
19	1e-03	7 / 58	Aging TESCHENDORFF_age_hypermethylated
20	1e-03	26 / 484	Color Quies2_Colon
21	1e-03	112 / 3068	Chror 8_EnhP_Fibroblasts
22	1e-03	19 / 315	GSE/ MIKKELSEN_NPC_HCP_WITH_H3K27ME3
23	1e-03	8 / 78	GSE/ SCHLESINGER_METHYLATED_DE_NOVO_IN_CANCER
24	2e-03	3 / 9	GSE/ SCHLESINGER_METHYLATED_IN_COLON_CANCER
25	2e-03	3 / 9	GSE/ CHESLER_BRAIN_D6MIT150_QTL_TRANS
26	2e-03	4 / 19	BP flavonoid biosynthetic process
27	2e-03	48 / 1119	Brain Overlap_fetal_midbrain_TssA
28	2e-03	87 / 2315	Chror 13_HetRpts_Melanocytes
29	2e-03	18 / 306	GSE/ NABA_SECRETED_FACTORS
30	2e-03	4 / 21	BP flavonoid glucuronidation
31	2e-03	4 / 21	GSE/ KEGG_ASCORBATE_AND_ALDARATE_METABOLISM
32	2e-03	142 / 4112	Brain Mid_Frontal_Lobe_ReprPC
33	3e-03	42 / 962	GSE/ BENPORATH_EED_TARGETS
34	3e-03	5 / 35	GSE/ CEBALLOS_TARGETS_OF_TP53_AND_MYC_DN
35	3e-03	11 / 147	BP homophilic cell adhesion via plasma membrane adhesion molecules
36	3e-03	113 / 3173	Color ReprPC_Colon
37	3e-03	8 / 87	Lymph Hopp_Lymphoma_Epi1_with_zentr_v_B.cell_DN
38	3e-03	3 / 11	BP activation of transmembrane receptor protein tyrosine kinase activity
39	3e-03	107 / 2988	Glio Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
40	3e-03	5 / 37	GSE/ KEGG_PORPHYRIN_AND_CHLOROPHYLL_METABOLISM

Overview Map

Spot



Correlation Cluster

Spot Summary: Q

metagenes = 96
genes = 854

<r> metagenes = 0.92
<r> genes = 0.04
beta: r2= 0.31 / log p= -Inf

samples with spot = 0 (0 %)

Spot Genelist

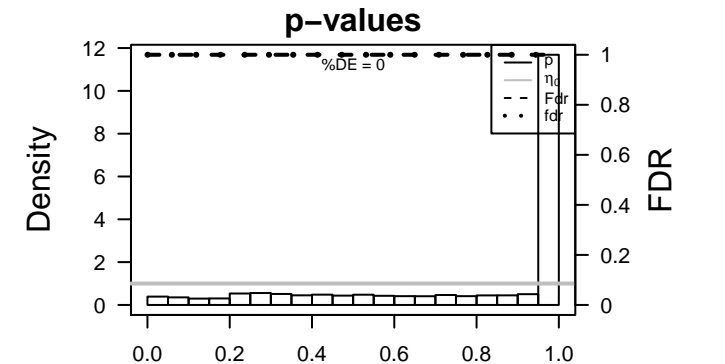
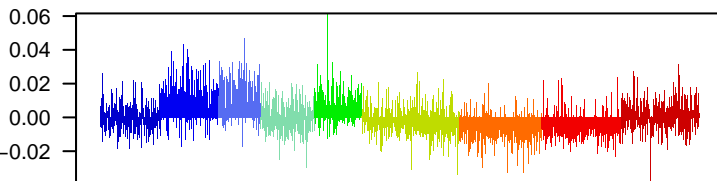
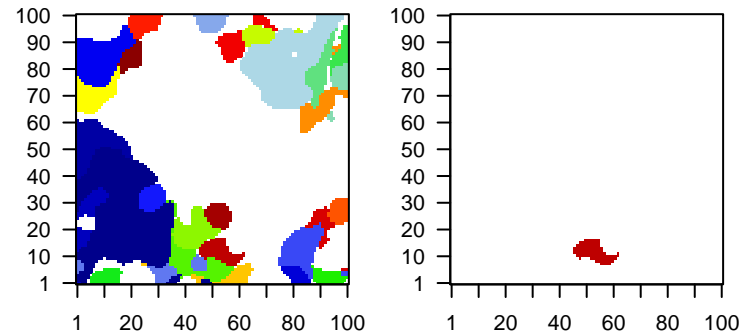
Rank	ID	max e	r	min e	Description
1	ILMN_178963	0.59	-0.29	0.24	FMOD fibromodulin [Source:HGNC Symbol;Acc:HGNC:3774]
2	ILMN_241552	0.42	-0.3	0.14	
3	ILMN_165165	0.41	-0.19	0.21	ADAM33 ADAM metallopeptidase domain 33 [Source:HGNC Symbol;A
4	ILMN_167829	0.33	-0.34	0.18	HMG20A high mobility group 20A [Source:HGNC Symbol;Acc:HGNC:5
5	ILMN_170217	0.28	-0.23	0.17	MIR6132 suppression of tumorigenicity 7 [Source:HGNC Symbol;Acc:-
6	ILMN_174286	0.28	-0.27	0.21	
7	ILMN_180600	0.28	-0.18	0.1	SPEF2 sperm flagellar 2 [Source:HGNC Symbol;Acc:HGNC:26293]
8	ILMN_186218	0.28	-0.21	0.12	C11orf95 chromosome 11 open reading frame 95 [Source:HGNC Synt
9	ILMN_175904	0.27	-0.19	0.13	
10	ILMN_172888	0.27	-0.2	0.21	PAK4 p21 (RAC1) activated kinase 4 [Source:HGNC Symbol;Acc:H
11	ILMN_168786	0.27	-0.19	0.15	LSS lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase) [
12	ILMN_234122	0.27	-0.19	0.13	CD34 CD34 molecule [Source:HGNC Symbol;Acc:HGNC:1662]
13	ILMN_177665	0.26	-0.18	0.14	
14	ILMN_323939	0.26	-0.16	0.22	
15	ILMN_179592	0.25	-0.24	0.16	paraspeckle component 1 pseudogene 1 [Source:HGNC Syrr
16	ILMN_165604	0.25	-0.18	0.21	CELF6 CUGBP, Elav-like family member 6 [Source:HGNC Symbol;A
17	ILMN_320305	0.25	-0.19	0.24	WDR86-AS1 WDR86 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC
18	ILMN_170003	0.25	-0.16	0.27	PRAME preferentially expressed antigen in melanoma [Source:HGNC
19	ILMN_186323	0.25	-0.17	0.16	long intergenic non-protein coding RNA 382 [Source:HGNC :
20	ILMN_324544	0.25	-0.14	0.26	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-05	162 / 5384	Lymp HOPP_Repressed
2	1e-04	129 / 4304	Chror 9_ReprPCWk_Melanocytes
3	5e-04	9 / 104	CC bicellular tight junction
4	6e-04	104 / 3438	Chror 10_ReprPC_Melanocytes
5	6e-04	75 / 2315	Chror 13_HetRpts_Melanocytes
6	1e-03	3 / 10	GSE# WEBER_METHYLATED_ICP_IN_SPERM_DN
7	1e-03	7 / 73	miRN Stroke_susceptibility to
8	2e-03	4 / 23	BP dopaminergic neuron differentiation
9	2e-03	5 / 39	BP learning or memory
10	2e-03	97 / 3272	Chror 13_HetRpts_Neuronal_Progenitor
11	2e-03	34 / 902	Chr Chr 4
12	3e-03	11 / 182	GSE# CAIRO_HEPATOBLASTOMA_CLASSES_DN
13	3e-03	3 / 13	BP dendritic spine development
14	3e-03	3 / 13	GSE# REACTOME_ANTIGEN_PRESENTATION_FOLDING_ASSEMBLY_AND_F
15	3e-03	64 / 2031	Chror 12_Het_Melanocytes
16	3e-03	4 / 28	BP regulation of signal transduction
17	4e-03	76 / 2516	Chror 11_K9K27me3_Melanocytes
18	4e-03	8 / 113	miRN Ovarian cancer
19	4e-03	6 / 68	miRN Glioblastoma multiforme, somatic
20	4e-03	3 / 15	BP sympathetic nervous system development
21	4e-03	3 / 15	GSE# WEBER_METHYLATED_ICP_IN_FIBROBLAST
22	4e-03	40 / 1163	Chror 12_Het_Fibroblasts
23	5e-03	11 / 196	GSE# MIKKELSEN_NPC_HCP_WITH_H3K4ME3_AND_H3K27ME3
24	5e-03	59 / 1893	Brain Overlap_fetal_midbrain_TssF
25	6e-03	5 / 52	GSE# REACTOME_PHOSPHOLIPASE_C_MEDIATED_CASCADE
26	6e-03	3 / 17	miRN Bladder cancer
27	7e-03	9 / 150	Canco PanCan_MAPK_geneset_nanostring
28	7e-03	8 / 124	GSE# MIKKELSEN_ES_LCP_WITH_H3K4ME3
29	7e-03	115 / 4167	Lymp HOPP_Heterochrom
30	7e-03	3 / 18	GSE# MCCABE_HOXC6_TARGETS_DN
31	7e-03	4 / 35	GSE# FRASOR_RESPONSE_TO ESTRADIOL_UP
32	8e-03	23 / 594	Color Lembecke_TCGA-expr_kmeans_M_CIMP_H_DN
33	8e-03	103 / 3691	Chror 9_ReprPCWk_Neuronal_Progenitor
34	8e-03	6 / 79	GSE# WONG_ENDMETRIUM_CANCER_DN
35	8e-03	9 / 156	BP axon guidance
36	8e-03	9 / 156	miRN Breast cancer
37	9e-03	7 / 105	BP kidney development
38	9e-03	3 / 20	BP calcium-independent cell-cell adhesion via plasma membrane cell-adhes
39	9e-03	3 / 20	GSE# VALK_AML_WITH_EV11
40	1e-02	79 / 2740	Color ReprPCWk_Colon

Overview Map

Spot



Correlation Cluster

Spot Summary: R

metagenes = 292
genes = 1945

<r> metagenes = 0.93

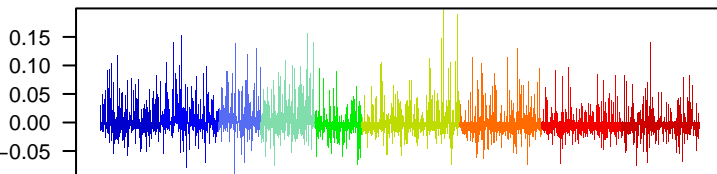
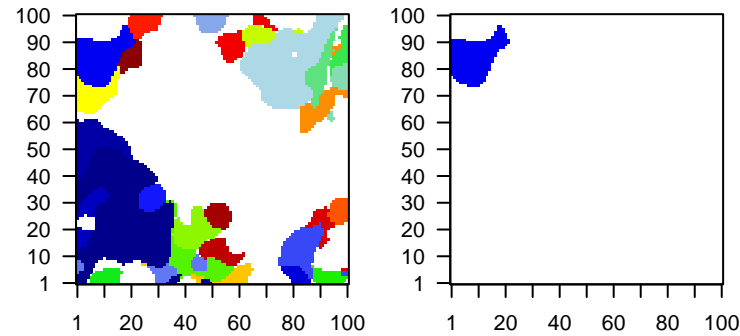
beta: r2= 2.24 / log p= -Inf

samples with spot = 110 (3.2 %)

- A* : 12 (3.5 %)
- AC* : 13 (4 %)
- ACF* : 14 (6 %)
- AF* : 20 (6.5 %)
- CF* : 4 (1.5 %)
- F* : 15 (2.7 %)
- FJ* : 17 (3.7 %)
- J* : 6 (1.3 %)
- N* : 9 (2 %)

Overview Map

Spot

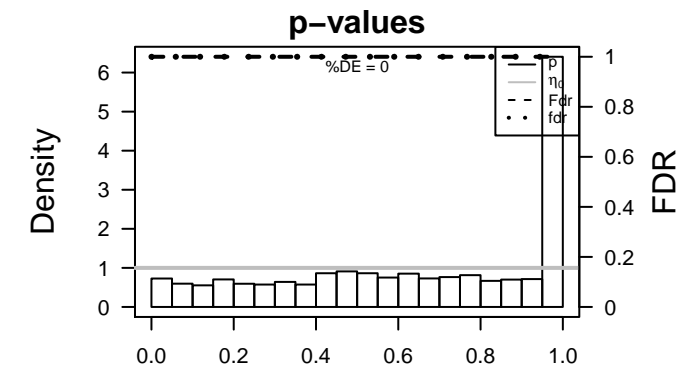


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ILMN_166406	0.86	-0.57	0.45	ERGIC1 endoplasmic reticulum-golgi intermediate compartment 1 [Sc
2	ILMN_324781	0.75	-0.41	0.31	RAS p21 protein activator 4CD, pseudogene [Source:HGNC :
3	ILMN_168507	0.72	-0.49	0.28	TELO2 telomere maintenance 2 [Source:HGNC Symbol;Acc:HGNC:2
4	ILMN_326869	0.72	-0.54	0.25	
5	ILMN_330822	0.69	-0.43	0.34	MIR1282 microRNA 1282 [Source:HGNC Symbol;Acc:HGNC:35360]
6	ILMN_324665	0.68	-0.42	0.33	
7	ILMN_186927	0.68	-0.4	0.31	
8	ILMN_165761	0.65	-0.35	0.68	WTAP Wilms tumor 1 associated protein [Source:HGNC Symbol;Acc
9	ILMN_170981	0.63	-0.45	0.3	SLC35A5 solute carrier family 35 member A5 [Source:HGNC Symbol;A
10	ILMN_134394	0.62	-0.4	0.31	
11	ILMN_180048	0.61	-0.38	0.36	CT47B1 cancer/testis antigen family 47, member B1 [Source:HGNC S
12	ILMN_224967	0.57	-0.36	0.64	LSR lipolysis stimulated lipoprotein receptor [Source:HGNC Symb
13	ILMN_328824	0.57	-0.43	0.52	
14	ILMN_183964	0.56	-0.31	0.62	LINC00320 long intergenic non-protein coding RNA 323 [Source:HGNC :
15	ILMN_176111	0.56	-0.35	0.64	PORCN porcupine homolog (Drosophila) [Source:HGNC Symbol;Acc:
16	ILMN_178092	0.56	-0.32	0.66	SLC43A1 solute carrier family 43 member 1 [Source:HGNC Symbol;Acc
17	ILMN_190200	0.55	-0.35	0.43	
18	ILMN_165712	0.55	-0.34	0.39	PTPRU protein tyrosine phosphatase, receptor type U [Source:HGNC
19	ILMN_324766	0.55	-0.36	0.67	
20	ILMN_170872	0.55	-0.44	0.13	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-17	293 / 3639	Chror 1_TssP_Fibroblasts
2	3e-13	307 / 4169	Chror 10_ReprPC_Fibroblasts
3	4e-13	167 / 1895	Colon EnhP_Colon
4	1e-12	239 / 3068	Chror 8_EnhP_Fibroblasts
5	1e-12	245 / 3173	Colon ReprPC_Colon
6	2e-11	161 / 1893	Brain Overlap_fetal_midbrain_TssF
7	2e-11	223 / 2894	Colon TssP_Colon
8	4e-11	208 / 2660	Chror 8_EnhP_Melanocytes
9	9e-11	253 / 3438	Chror 10_ReprPC_Melanocytes
10	2e-10	210 / 2740	Colon ReprPCWk_Colon
11	6e-10	360 / 5384	Lymp HOPP_Repressed
12	1e-09	287 / 4112	Brain Mid_Frontal_Lobe_ReprPC
13	5e-09	283 / 4107	Chror 9_ReprPCWk_Fibroblasts
14	1e-08	292 / 4304	Chror 9_ReprPCWk_Melanocytes
15	2e-08	247 / 3523	Chror 1_TssP_Melanocytes
16	9e-08	113 / 1360	Brain Mid_Frontal_Lobe_TssP
17	1e-06	178 / 2516	Chror 11_K9K27me3_Melanocytes
18	2e-06	165 / 2297	Chror 10_ReprPC_Neural_Progenitor
19	2e-06	115 / 1476	Brain Overlap_fetal_midbrain_TxTrans
20	2e-06	183 / 2620	Chror 1_TssP_Neural_Progenitor
21	2e-05	129 / 1789	Chror 8_EnhP_Neural_Progenitor
22	2e-05	88 / 1119	Brain Overlap_fetal_midbrain_TssA
23	4e-05	194 / 2939	Lymp HOPP_Poised_promoter
24	4e-05	200 / 3046	Brain Fetal_TssA
25	5e-05	61 / 717	Chror 11_K9K27me3_Fibroblasts
26	5e-05	235 / 3691	Chror 9_ReprPCWk_Neural_Progenitor
27	7e-05	543 / 9530	Color LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
28	8e-05	62 / 746	GSE/ MARTENS_TRETINOIN_RESPONSE_UP
29	1e-04	178 / 2709	Brain Mid_Frontal_Lobe_HetRpts
30	1e-04	66 / 819	Brain Overlap_fetal_midbrain_TssP
31	1e-04	8 / 32	miRN hsa-miR-1229
32	2e-04	104 / 1448	GSE/ ZWANG_TRANSIENTLY_UP_BY_2ND_EGF_PULSE_ONLY
33	2e-04	9 / 43	GSE/ MCCLUNG_DELTA_FOSB_TARGETS_2WK
34	3e-04	174 / 2700	Brain Fetal_TxTrans
35	6e-04	140 / 2127	Brain Mid_Frontal_Lobe_K9K27me3
36	7e-04	41 / 478	Refer WIRTH_Nervous System
37	1e-03	88 / 1252	CC integral component of plasma membrane
38	1e-03	44 / 536	GSE/ MIKKELSEN_MEF_HCP_WITH_H3K27ME3
39	1e-03	3 / 5	GSE/ LU_TUMOR_ENDOTHELIAL_MARKERS_DN
40	1e-03	15 / 122	BP sensory perception of sound



Correlation Cluster

Spot Summary: S

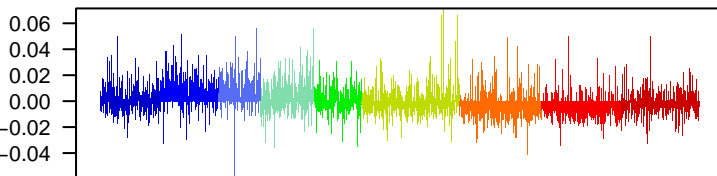
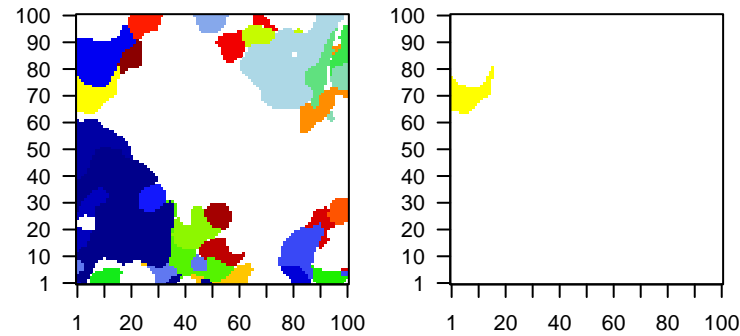
metagenes = 143
genes = 273

<r> metagenes = 0.93
<r> genes = 0.04
beta: r2= 0.38 / log p= -Inf

samples with spot = 3 (0.1 %)
F* : 3 (0.5 %)

Overview Map

Spot

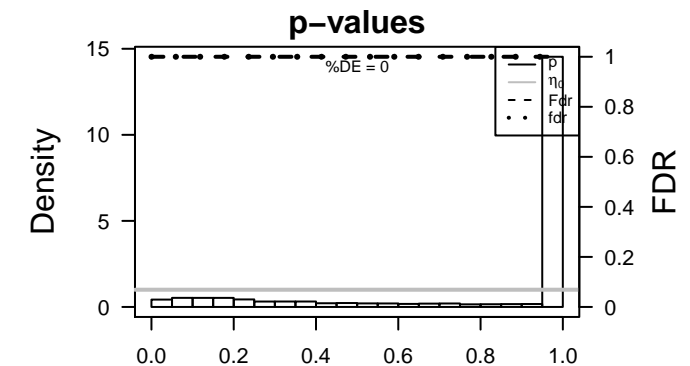


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ILMN_219415	0.41	-0.21	0.21	ADAM29 ADAM metallopeptidase domain 29 [Source:HGNC Symbol;Acc:HGNC:24011]
2	ILMN_172449	0.37	-0.3	0.29	ABI2 abl interactor 2 [Source:HGNC Symbol;Acc:HGNC:24011]
3	ILMN_330795	0.31	-0.21	0.18	L3MBTL4(3)mbt-like 4 (Drosophila) [Source:HGNC Symbol;Acc:HGNC:24011]
4	ILMN_324575	0.29	-0.23	0.24	
5	ILMN_186191	0.29	-0.22	0.23	
6	ILMN_167558	0.28	-0.2	0.25	HTRA4 HtrA serine peptidase 4 [Source:HGNC Symbol;Acc:HGNC:24011]
7	ILMN_166509	0.28	-0.18	0.21	TTC34 tetratricopeptide repeat domain 34 [Source:HGNC Symbol;Acc:HGNC:24011]
8	ILMN_191704	0.28	-0.2	0.19	
9	ILMN_172289	0.28	-0.2	0.22	CHST10 carbohydrate sulfotransferase 10 [Source:HGNC Symbol;Acc:HGNC:24011]
10	ILMN_189594	0.28	-0.21	0.24	
11	ILMN_134387	0.28	-0.2	0.17	
12	ILMN_227914	0.27	-0.2	0.25	JADE3 jade family PHD finger 3 [Source:HGNC Symbol;Acc:HGNC:24011]
13	ILMN_173884	0.27	-0.2	0.27	SLC9A2 solute carrier family 9 member A2 [Source:HGNC Symbol;Acc:HGNC:24011]
14	ILMN_183218	0.27	-0.24	0.25	
15	ILMN_165575	0.27	-0.19	0.24	LINC01295 lincRNA, probable homeobox A pseudogene 8 [Source:EntrezGene;Acc:NC_012953.1]
16	ILMN_328311	0.27	-0.21	0.2	
17	ILMN_321928	0.27	-0.21	0.21	
18	ILMN_326159	0.27	-0.18	0.21	LOC100128770
19	ILMN_176429	0.27	-0.2	0.15	
20	ILMN_176567	0.27	-0.21	0.17	ALS2CR12 amyotrophic lateral sclerosis 2 chromosome region candidate 2 [Source:HGNC Symbol;Acc:HGNC:24011]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	6e-09	43 / 2516	Chror 11_K9K27me3_Melanocytes
2	1e-07	57 / 4304	Chror 9_ReprPCWk_Melanocytes
3	2e-07	55 / 4169	Chror 10_ReprPC_Fibroblasts
4	9e-07	53 / 4107	Chror 9_ReprPCWk_Fibroblasts
5	1e-05	44 / 3438	Chror 10_ReprPC_Melanocytes
6	2e-05	60 / 5384	Lymph HOPE_Repressed
7	5e-05	39 / 3046	Brain Fetal_TssA
8	6e-05	44 / 3639	Chror 1_TssP_Fibroblasts
9	8e-05	35 / 2660	Chror 8_EnhP_Melanocytes
10	1e-04	15 / 717	Chror 11_K9K27me3_Fibroblasts
11	2e-04	34 / 2700	Brain Fetal_TxTrans
12	3e-04	37 / 3068	Chror 8_EnhP_Fibroblasts
13	4e-04	26 / 1893	Brain Overlap_fetal_midbrain_TssF
14	6e-04	7 / 210	GSE/ NABA_ECM_REGULATORS
15	6e-04	13 / 663	GSE/ NABA_MATRISOME_ASSOCIATED
16	7e-04	2 / 6	GSE/ TCGA_GLIOLASTOMA_MUTATED
17	7e-04	24 / 1753	TF HEBENSTREIT_low expression TF
18	8e-04	5 / 107	Refer WIRTH_Liver
19	8e-04	15 / 869	Brain Mid_Frontal_Lobe_EnhG
20	1e-03	26 / 2031	Chror 12_Het_Melanocytes
21	1e-03	44 / 4167	Lymph HOPE_Heterochrom
22	1e-03	9 / 383	BP proteolysis
23	1e-03	31 / 2630	Brain Fetal_TssF
24	1e-03	16 / 1012	Brain Mid_Frontal_Lobe_Enh
25	2e-03	9 / 398	GSE/ SCHAEFFER_PROSTATE_DEVELOPMENT_48HR_DN
26	2e-03	2 / 10	GSE/ PID_ALK2_PATHWAY
27	2e-03	46 / 4526	Color Quies1_Colon
28	2e-03	6 / 193	Glio Hopp_Sturm_GBM_Epi3_F_RTK_II_UP_adult_fetus_K27_DN
29	2e-03	6 / 193	GSE/ CAIRO_LIVER_DEVELOPMENT_DN
30	2e-03	2 / 11	BP enteric nervous system development
31	2e-03	39 / 3691	Chror 9_ReprPCWk_Neuronal_Progenitor
32	3e-03	4 / 84	Glio GIEZELT_GBM_STS_up_VS_LTS
33	3e-03	30 / 2620	Chror 1_TssP_Neuronal_Progenitor
34	3e-03	3 / 41	BP ovarian follicle development
35	3e-03	2 / 12	GSE/ BIOCARTEA_FIBRINOLYSIS_PATHWAY
36	3e-03	3 / 44	GSE/ BOYVAULT_LIVER_CANCER_SUBCLASS_G123_DN
37	4e-03	37 / 3523	Chror 1_TssP_Melanocytes
38	4e-03	3 / 46	GSE/ BOYVAULT_LIVER_CANCER_SUBCLASS_G3_DN
39	4e-03	14 / 916	GSE/ NABA_MATRISOME
40	4e-03	34 / 3173	Color ReprPC_Colon



Correlation Cluster

Spot Summary: T

metagenes = 83
genes = 503

<r> metagenes = 0.95

<r> genes = 0.04

beta: r2= 0.34 / log p= -Inf

samples with spot = 3 (0.1 %)

F* : 3 (0.5 %)

Spot Genelist

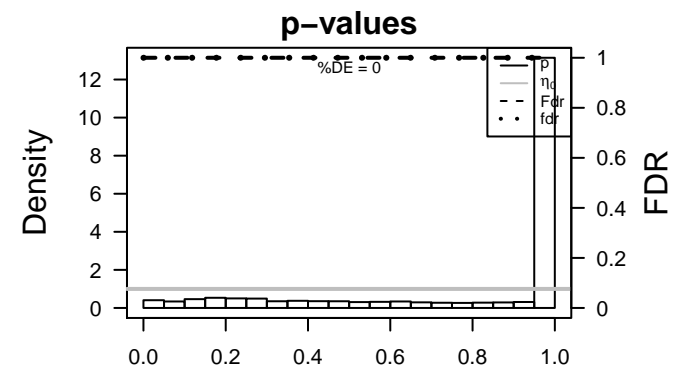
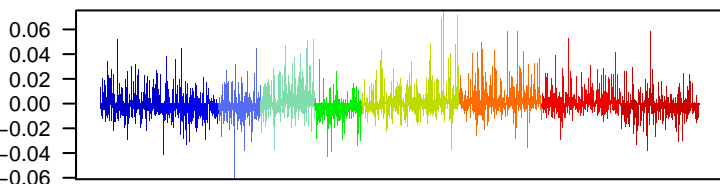
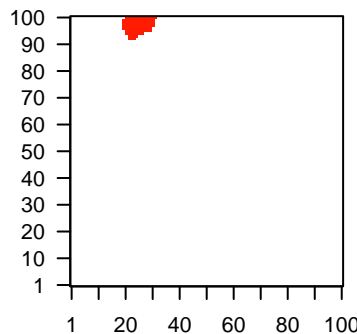
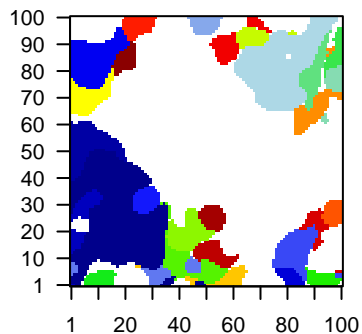
Rank	ID	max e	r	min e	Description
1	ILMN_330104	0.38	-0.33	0.15	FLVCR1-AS1 CR1 antisense RNA 1 (head to head) [Source:HGNC Sy
2	ILMN_179077	0.33	-0.22	0.2	PNMA2 paraneoplastic Ma antigen 2 [Source:HGNC Symbol;Acc:HG
3	ILMN_240217	0.32	-0.19	0.16	
4	ILMN_216182	0.3	-0.19	0.17	
5	ILMN_321955	0.3	-0.21	0.19	
6	ILMN_180959	0.28	-0.17	0.19	C12orf40 chromosome 12 open reading frame 40 [Source:HGNC Synt
7	ILMN_169427	0.28	-0.19	0.22	
8	ILMN_223160	0.28	-0.22	0.22	CTAGE15 CTAGE family member 15 [Source:HGNC Symbol;Acc:HGNC
9	ILMN_213824	0.27	-0.21	0.24	PRSS45 protease, serine 45 [Source:HGNC Symbol;Acc:HGNC:30711
10	ILMN_327713	0.27	-0.2	0.17	ribosomal protein L9 pseudogene 18 [Source:HGNC Symbol;
11	ILMN_324908	0.27	-0.26	0.22	
12	ILMN_329937	0.27	-0.2	0.14	
13	ILMN_191464	0.27	-0.23	0.18	
14	ILMN_184821	0.27	-0.17	0.16	
15	ILMN_208418	0.27	-0.17	0.2	RPL10 ribosomal protein L10 [Source:HGNC Symbol;Acc:HGNC:10
16	ILMN_328453	0.26	-0.19	0.2	
17	ILMN_183933	0.26	-0.22	0.23	SUCLG2-AS1 SUCLG2 antisense RNA 1 (head to head) [Source:HGNC Sy
18	ILMN_184676	0.26	-0.21	0.21	
19	ILMN_177770	0.26	-0.21	0.14	OR4C12 olfactory receptor family 4 subfamily C member 12 [Source:H
20	ILMN_318304	0.26	-0.22	0.24	C11orf86 chromosome 11 open reading frame 86 [Source:HGNC Synt

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	4e-07	54 / 2031	Chror 12_Het_Melanocytes
2	6e-07	62 / 2516	Chror 11_K9K27me3_Melanocytes
3	2e-06	64 / 2740	Colon ReprPCWk_Colon
4	5e-06	85 / 4107	Chror 9_ReprPCWk_Fibroblasts
5	5e-06	88 / 4304	Chror 9_ReprPCWk_Melanocytes
6	6e-06	104 / 5384	Lymp HOPEP_Repressed
7	1e-05	73 / 3438	Chror 10_ReprPC_Melanocytes
8	3e-05	83 / 4169	Chror 10_ReprPC_Fibroblasts
9	3e-05	59 / 2660	Chror 8_EnhP_Melanocytes
10	4e-05	53 / 2315	Chror 13_HetRpts_Melanocytes
11	4e-05	67 / 3173	Colon ReprPC_Colon
12	8e-05	8 / 106	CC Z disc
13	1e-04	34 / 1324	Chror 13_HetRpts_Fibroblasts
14	2e-04	71 / 3639	Chror 1_TssP_Fibroblasts
15	3e-04	30 / 1163	Chror 12_Het_Fibroblasts
16	4e-04	13 / 323	GSE/ VECCHI_GASTRIC_CANCER_EARLY_DN
17	5e-04	58 / 2894	Colon TssP_Colon
18	8e-04	54 / 2682	Chror 12_Het_Neural_Progenitor
19	1e-03	81 / 4526	Color Quies1_Colon
20	1e-03	6 / 92	GSE/ BURTON_ADIPOGENESIS_3
21	1e-03	4 / 37	GSE/ CROONQUIST_NRAS_VS_STROMAL_STIMULATION_UP
22	1e-03	4 / 37	GSE/ VALK_AML_WITH_FLT3_ITD
23	2e-03	3 / 19	CC costamere
24	2e-03	3 / 19	GSE/ SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_2FC_DN
25	2e-03	6 / 99	MF metalloendopeptidase activity
26	2e-03	9 / 217	BP chemical synaptic transmission
27	3e-03	67 / 3691	Chror 9_ReprPCWk_Neural_Progenitor
28	3e-03	4 / 45	BP cardiac muscle contraction
29	3e-03	3 / 23	MF endopeptidase inhibitor activity
30	3e-03	2 / 7	GSE/ OXFORD_RALB_TARGETS_UP
31	4e-03	3 / 24	BP complement activation
32	4e-03	73 / 4167	Lymp HOPEP_Heterochrom
33	4e-03	4 / 50	Refer WIRTH_Placenta
34	4e-03	3 / 25	GSE/ VALK_AML_CLUSTER_2
35	5e-03	36 / 1753	TF HEBENSTREIT_low expression TF
36	5e-03	8 / 199	GSE/ MCBRYAN_PUBERTAL_BREAST_3_4WK_UP
37	5e-03	27 / 1213	Brain Fetal_TssP
38	5e-03	13 / 436	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN
39	5e-03	55 / 2988	Glio Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
40	5e-03	3 / 27	BP mitotic cytokinesis

Overview Map

Spot



Correlation Cluster

Spot Summary: U

metagenes = 67
genes = 181

<r> metagenes = 0.93
<r> genes = 0.03
beta: r2= 0.21 / log p= -Inf

samples with spot = 0 (0 %)

Spot Genelist

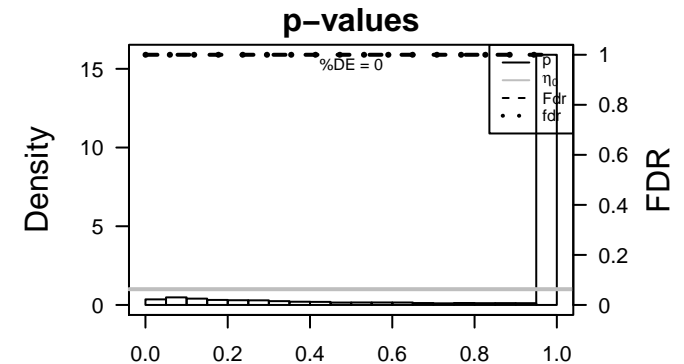
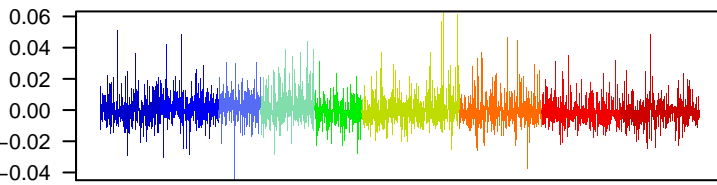
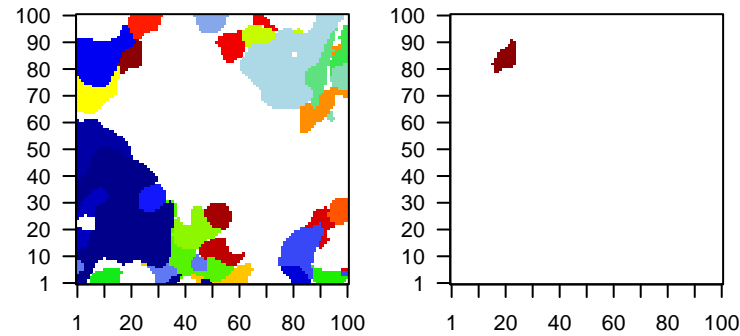
Rank	ID	max e	r	min e	Description
1	ILMN_187298	0.27	-0.18	0.18	
2	ILMN_180753	0.26	-0.3	0.2	
3	ILMN_177696	0.25	-0.15	0.18	
4	ILMN_189172	0.24	-0.19	0.13	
5	ILMN_175268	0.24	-0.16	0.22	WDR78 WD repeat domain 78 [Source:HGNC Symbol;Acc:HGNC:26;
6	ILMN_227753	0.23	-0.17	0.17	MUTYH mutY DNA glycosylase [Source:HGNC Symbol;Acc:HGNC:7f
7	ILMN_176564	0.23	-0.19	0.17	MAZ MYC associated zinc finger protein [Source:HGNC Symbol;A
8	ILMN_182604	0.23	-0.19	0.16	
9	ILMN_179693	0.23	-0.17	0.19	CHAT choline O-acetyltransferase [Source:HGNC Symbol;Acc:HGNC
10	ILMN_175536	0.23	-0.19	0.16	RAB3A RAB3A, member RAS oncogene family [Source:HGNC Symb
11	ILMN_177400	0.23	-0.16	0.15	ZIC1 Zic family member 1 [Source:HGNC Symbol;Acc:HGNC:1287
12	ILMN_188536	0.23	-0.16	0.18	
13	ILMN_322557	0.23	-0.2	0.15	long intergenic non-protein coding RNA 1438 [Source:HGNC
14	ILMN_184795	0.22	-0.17	0.15	
15	ILMN_323728	0.22	-0.19	0.22	
16	ILMN_218526	0.22	-0.17	0.17	
17	ILMN_180709	0.22	-0.17	0.18	LOC401472
18	ILMN_326232	0.22	-0.14	0.2	PATE4 prostate and testis expressed 4 [Source:HGNC Symbol;Acc:f
19	ILMN_180290	0.22	-0.17	0.24	CBWD1 COBW domain containing 1 [Source:HGNC Symbol;Acc:HGNC
20	ILMN_326937	0.22	-0.16	0.21	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-05	41 / 4304	Chror 9_ReprPCWk_Melanocytes
2	2e-05	24 / 1893	Brain Overlap_fetal_midbrain_TssF
3	4e-05	29 / 2660	Chror 8_EnhP_Melanocytes
4	6e-05	5 / 82	MF odorant binding
5	1e-04	27 / 2516	Chror 11_K9K27me3_Melanocytes
6	1e-04	2 / 4	GSE/ TESAR_ALK_AND_JAK_TARGETS_MOUSE_ES_D4_UP
7	2e-04	16 / 1119	Brain Overlap_fetal_midbrain_TssA
8	2e-04	2 / 5	GSE/ TESAR_ALK_TARGETS_HUMAN_ES_5D_UP
9	4e-04	2 / 6	GSE/ TESAR_ALK_TARGETS_EPISC_4D_UP
10	6e-04	43 / 5384	Lymph HOPP_Repressed
11	7e-04	31 / 3438	Chror 10_ReprPC_Melanocytes
12	1e-03	11 / 720	GSE/ REACTOME_GPCR_DOWNSTREAM_SIGNALING
13	1e-03	2 / 10	MF high voltage-gated calcium channel activity
14	1e-03	2 / 10	GSE/ REACTOME_ACETYLCHOLINE_NEUROTRANSMITTER_RELEASE_CYC
15	1e-03	17 / 1476	Brain Overlap_fetal_midbrain_TxTrans
16	1e-03	25 / 2620	Chror 1_TssP_Neural_Progenitor
17	1e-03	3 / 42	BP cellular response to hormone stimulus
18	1e-03	2 / 11	BP response to peptide
19	1e-03	2 / 11	GSE/ MONTERO_THYROID_CANCER_POOR_SURVIVAL_UP
20	1e-03	3 / 44	GSE/ ZHAN_MULTIPLE_MYELOMA_PR_UP
21	1e-03	4 / 96	GSE/ LEE_EARLY_T_LYMPHOCYTE_UP
22	2e-03	34 / 4107	Chror 9_ReprPCWk_Fibroblasts
23	2e-03	31 / 3639	Chror 1_TssP_Fibroblasts
24	2e-03	3 / 48	BP neurotransmitter secretion
25	2e-03	4 / 103	GSE/ WHITEFORD_PEDIATRIC_CANCER_MARKERS
26	2e-03	2 / 13	miRN hsa-miR-1234
27	2e-03	7 / 347	GSE/ KEGG_OLFACTORY_TRANSDUCTION
28	2e-03	4 / 106	BP calcium ion transmembrane transport
29	2e-03	14 / 1163	Chror 12_Het_Fibroblasts
30	2e-03	30 / 3523	Chror 1_TssP_Melanocytes
31	2e-03	25 / 2740	Color ReprPCWk_Colon
32	2e-03	7 / 357	BP detection of chemical stimulus involved in sensory perception of smell
33	2e-03	7 / 357	MF olfactory receptor activity
34	2e-03	27 / 3068	Chror 8_EnhP_Fibroblasts
35	2e-03	11 / 803	BP G-protein coupled receptor signaling pathway
36	3e-03	2 / 16	BP calcium ion import
37	3e-03	19 / 1895	Color EnhP_Colon
38	3e-03	11 / 822	GSE/ REACTOME_SIGNALING_BY_GPCR
39	3e-03	2 / 17	BP synaptic vesicle exocytosis
40	3e-03	6 / 287	GSE/ REACTOME_OLFACTORY_SIGNALING_PATHWAY

Overview Map

Spot



Correlation Cluster

Spot Summary: V

metagenes = 684
genes = 2352

<r> metagenes = 0.92

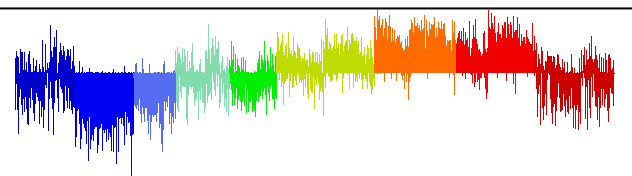
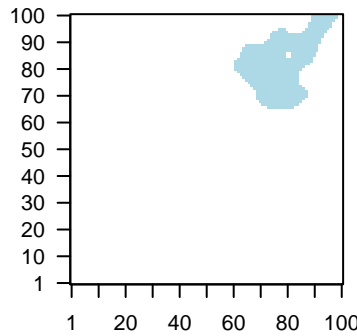
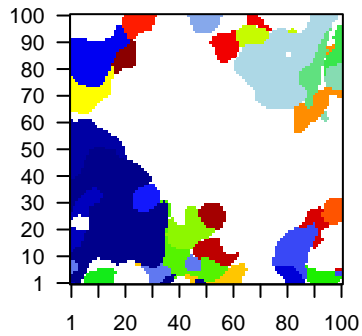
beta: r2= 24.36 / log p= -Inf

samples with spot = 812 (24 %)

A * : 33 (9.6 %)
A F * : 30 (9.7 %)
C F * : 7 (2.6 %)
F * : 151 (27.2 %)
F J * : 314 (67.8 %)
J * : 255 (57 %)
N * : 22 (5 %)

Overview Map

Spot

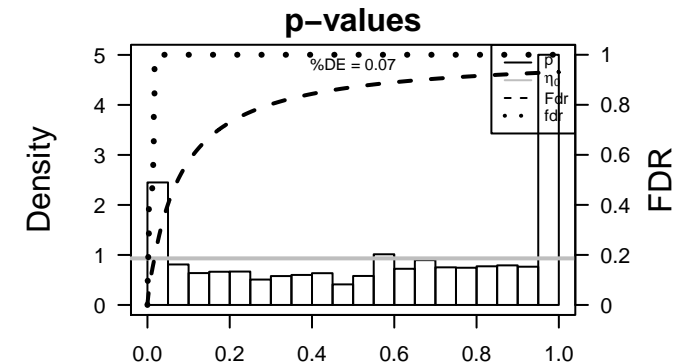


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ILMN_239376	2.36	-2.48	0.3	IGLL1 immunoglobulin lambda like polypeptide 1 [Source:HGNC Sy
2	ILMN_165219	2.24	-1.63	0.26	
3	ILMN_173950	2.08	-1.34	0.29	
4	ILMN_324037	2.04	-1.35	0.35	immunoglobulin kappa variable 1D-17 [Source:HGNC Symb
5	ILMN_169921	1.89	-1.18	0.28	
6	ILMN_174314	1.89	-2.07	0.13	ERAP2 endoplasmic reticulum aminopeptidase 2 [Source:HGNC Syr
7	ILMN_178810	1.79	-0.92	0.36	BLOC1S5-TXNDC5 readthrough (NMD candidate) [Source:†
8	ILMN_177365	1.78	-1.17	0.51	LRRN3 leucine rich repeat neuronal 3 [Source:HGNC Symbol;Acc:HC
9	ILMN_169107	1.77	-1.46	0.5	FCRLA Fc receptor like A [Source:HGNC Symbol;Acc:HGNC:18504]
10	ILMN_177245	1.73	-2.05	0.4	RPS23 ribosomal protein S23 [Source:HGNC Symbol;Acc:HGNC:10
11	ILMN_168027	1.73	-0.94	0.34	immunoglobulin kappa variable 1-33 [Source:HGNC Symbol;
12	ILMN_240485	1.7	-1.35	0.32	RPL14 ribosomal protein L14 [Source:HGNC Symbol;Acc:HGNC:10
13	ILMN_180840	1.68	-1.68	0.34	HLA-DQA1 major histocompatibility complex, class II, DQ alpha 1 [Source
14	ILMN_173487	1.64	-1.96	0.55	CD79A CD79a molecule [Source:HGNC Symbol;Acc:HGNC:1698]
15	ILMN_178270	1.6	-1.28	0.36	
16	ILMN_165379	1.59	-1.31	0.27	
17	ILMN_233792	1.41	-1.24	0.6	CXCR5 C-X-C motif chemokine receptor 5 [Source:HGNC Symbol;A
18	ILMN_165303	1.4	-1.48	0.4	
19	ILMN_171073	1.39	-1.44	0.49	GZMK granzyme K [Source:HGNC Symbol;Acc:HGNC:4711]
20	ILMN_170014	1.38	-1.08	0.44	VPREB3 pre-B lymphocyte 3 [Source:HGNC Symbol;Acc:HGNC:1271

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-66	85 / 119	Refer Chaussabel_2,8_T-cells
2	1e-54	1091 / 9815	Brain Overlap_fetal_midbrain_ReprPC
3	5e-48	75 / 132	Refer Chaussabel_1,7_MHC Ribosomal proteins
4	2e-47	1261 / 12298	Chrom 2_TssA_Melanocytes
5	1e-46	1045 / 9555	Colon TssA_Colon
6	2e-46	215 / 965	Colon Pentrack_CRC_TCGA_corr_R_normal_DN
7	4e-46	196 / 831	Colon Pentrack_CRC_TCGA_group.over_C_normal_DN
8	6e-46	933 / 8226	Lymph HOPP_Active_promoter
9	1e-45	1191 / 11455	Chrom 2_TssA_Fibroblasts
10	4e-39	64 / 119	Refer Chaussabel_2,4_Ribosomal proteins
11	9e-39	977 / 9054	Colon Tx_Colon
12	3e-38	935 / 8568	Colon TxWk_Colon
13	4e-38	1281 / 12983	Chrom 5_Tx_Neural_Progenitor
14	5e-38	825 / 7275	Lymph HOPP_Txn_elongation
15	8e-35	999 / 9504	Brain Overlap_fetal_midbrain_K9K27me3
16	2e-34	786 / 6970	Chrom 5_Tx_Neural_Progenitor
17	3e-34	694 / 5936	Brain Overlap_fetal_midbrain_HetRpts
18	5e-34	936 / 8771	Chrom 5_Tx_Melanocytes
19	8e-33	637 / 5356	Lymph HOPP_Txn_transition
20	2e-32	243 / 1417	GSE/ PUJANA_BRCA1_PCC_NETWORK
21	3e-32	1108 / 10999	Colon TssWk_Colon
22	1e-31	67 / 163	BP rRNA processing
23	8e-31	127 / 529	GSE/ CAIRO_HEPATOBLASTOMA_CLASSES_UP
24	2e-30	39 / 56	GSE/ REACTOME_PEPTIDE_CHAIN_ELONGATION
25	1e-29	863 / 8098	Lymph HOPP_Weak_promoter
26	1e-28	838 / 7854	Chrom 5_Tx_Fibroblasts
27	2e-28	906 / 8678	Colon Quies3_Colon
28	4e-28	40 / 65	BP SRP-dependent cotranslational protein targeting to membrane
29	7e-28	41 / 69	GSE/ REACTOME_3_UTR_MEDIATED_TRANSLATIONAL_REGULATION
30	1e-27	210 / 1231	TF KIM_MYC targets
31	1e-27	44 / 81	BP viral transcription
32	3e-27	28 / 32	Lifest Marjolein_ageing_genes_DN
33	7e-27	37 / 58	GSE/ KEGG_RIBOSOME
34	1e-26	182 / 1013	MF poly(A) RNA binding
35	1e-26	47 / 96	BP translational initiation
36	1e-26	59 / 151	GSE/ JISON_SICKLE_CELL_DISEASE_DN
37	3e-26	41 / 74	GSE/ REACTOME_NONSENSE_MEDIATED_DECAY_ENHANCED_BY_THE_E
38	8e-26	44 / 87	BP nuclear-transcribed mRNA catabolic process, nonsense-mediated decay
39	3e-25	154 / 811	GSE/ LEE_BMP2_TARGETS_DN
40	1e-24	38 / 68	GSE/ REACTOME_INFLUENZA_VIRAL_RNA_TRANSCRIPTION_AND_REPLIC



Aging			BP			Brain		
Rank	p-value	GeneSet	Rank	p-value	GeneSet	Rank	p-value	GeneSet
1	0.3	109 / 142	1	1e-31	67 / 163	1	1e-54	1081 / 9815
2	0.4	110 / 111	2	4e-28	40 / 65	2	3e-34	998 / 9504
3	1.0	1 / 58	3	1e-27	44 / 81	3	3e-34	684 / 5936
4	NA	0 / 0	4	1e-26	47 / 96	4	1e-19	966 / 9917
5	NA	0 / 0	5	8e-26	44 / 87	5	3e-13	970 / 10430
6	NA	0 / 0	6	5e-20	57 / 184	6	3e-08	95 / 681
7	NA	0 / 0	7	6e-17	214 / 1643	7	1e-07	106 / 7386
8	NA	0 / 0	8	5e-09	158 / 1272	8	1e-05	80 / 630
9	NA	0 / 0	9	2e-08	9 / 12	9	3e-05	308 / 3164
10	NA	0 / 0	10	3e-06	8 / 14	10	2e-04	29 / 180
11	NA	0 / 0	11	6e-06	8 / 15	11	2e-04	101 / 906
12	NA	0 / 0	12	1e-02	10 / 26	12	2e-03	47 / 386
13	NA	0 / 0	13	2e-05	11 / 32	13	7e-03	242 / 2654
14	NA	0 / 0	14	3e-05	8 / 18	14	2e-02	37 / 328
15	NA	0 / 0	15	4e-05	21 / 102	15	4e-02	109 / 1171
Cancer			CC			Chr		
Rank	p-value	GeneSet	Rank	p-value	GeneSet	Rank	p-value	GeneSet
1	7e-06	4 / 13	1	7e-20	131 / 721	1	0.03	95 / 994
2	4e-05	7 / 14	2	1e-17	26 / 45	2	0.03	44 / 422
3	1e-04	11 / 39	3	2e-17	315 / 2535	3	0.12	102 / 1160
4	1e-03	6 / 16	4	5e-15	183 / 1304	4	0.15	106 / 1217
5	2e-03	5 / 13	5	5e-15	514 / 4828	5	0.18	79 / 904
6	5e-03	5 / 15	6	3e-09	64 / 374	6	0.19	127 / 1492
7	6e-03	5 / 16	7	5e-09	14 / 28	7	0.22	103 / 1211
8	2e-02	4 / 13	8	8e-08	17 / 46	8	0.35	96 / 1170
9	3e-02	7 / 38	9	9e-07	8 / 12	9	0.37	29 / 342
10	3e-02	3 / 14	10	1e-06	47 / 287	10	0.38	119 / 1467
11	3e-02	54 / 527	11	2e-06	459 / 4822	11	0.44	62 / 768
12	3e-02	4 / 16	12	3e-06	299 / 2979	12	0.48	76 / 954
13	3e-02	1 / 14	13	1e-04	8 / 16	13	0.49	84 / 1060
14	7e-02	2 / 15	14	1e-04	8 / 21	14	0.55	75 / 959
15	8e-02	2 / 6	15	3e-04	9 / 29	15	0.55	60 / 769
Chromatin states			Colon Cancer			Glio		
Rank	p-value	GeneSet	Rank	p-value	GeneSet	Rank	p-value	GeneSet
1	2e-47	1261 / 12298	1	1e-46	1045 / 9555	1	4e-08	202 / 1777
2	1e-45	1191 / 11455	2	2e-46	215 / 965	2	5e-07	221 / 2043
3	4e-38	1281 / 12983	3	4e-46	196 / 831	3	1e-02	45 / 401
4	2e-34	786 / 6970	4	9e-39	977 / 9054	4	2e-02	81 / 820
5	5e-34	395 / 8771	5	3e-38	935 / 8568	5	4e-02	11 / 76
6	1e-28	838 / 7854	6	3e-32	1108 / 10999	6	4e-02	5 / 25
7	2e-22	1131 / 11836	7	2e-28	906 / 8678	7	1e-01	7 / 50
8	9e-15	1133 / 12393	8	3e-17	743 / 7354	8	1e-01	2 / 7
9	5e-11	839 / 8990	9	3e-13	154 / 1083	9	1e-01	3 / 15
10	2e-09	221 / 1848	10	1e-10	193 / 1547	10	1e-01	3 / 16
11	2e-09	998 / 11130	11	9e-11	421 / 4034	11	1e-01	3 / 15
12	3e-09	429 / 4237	12	4e-09	235 / 2073	12	1e-01	2 / 8
13	9e-09	551 / 5699	13	4e-09	41 / 193	13	1e-01	4 / 26
14	4e-07	1105 / 12741	14	7e-09	146 / 1156	14	2e-01	2 / 9
15	2e-06	854 / 9635	15	9e-09	176 / 1468	15	2e-01	11 / 100
GSEA C			HM			Lifestyle		
Rank	p-value	GeneSet	Rank	p-value	GeneSet	Rank	p-value	GeneSet
1	2e-32	243 / 1417	1	4e-21	56 / 170	1	3e-27	28 / 32
2	8e-31	127 / 529	2	2e-06	16 / 54	2	1e-05	28 / 147
3	2e-30	39 / 56	3	4e-06	23 / 103	3	1e-01	3 / 17
4	7e-28	41 / 69	4	2e-03	25 / 173	4	4e-01	3 / 31
5	7e-27	37 / 58	5	3e-03	20 / 130	5	6e-01	1 / 10
6	1e-26	59 / 114	6	1e-01	16 / 67	6	6e-01	1 / 10
7	3e-26	41 / 74	7	3e-02	20 / 167	7	6e-01	16 / 211
8	3e-25	154 / 811	8	9e-02	6 / 40	8	7e-01	1 / 15
9	1e-24	38 / 68	9	1e-01	20 / 186	9	7e-01	1 / 16
10	2e-24	65 / 196	10	1e-01	19 / 179	10	8e-01	6 / 94
11	2e-24	46 / 101	11	1e-01	19 / 185	11	1e+00	1 / 10
12	6e-24	39 / 77	12	1e-01	19 / 186	12	1e+00	0 / 5
13	9e-24	133 / 1689	13	2e-01	14 / 132	13	1e+00	0 / 7
14	6e-23	44 / 99	14	3e-01	9 / 91	14	1e+00	0 / 6
15	5e-22	156 / 887	15	3e-01	16 / 175	15	1e+00	0 / 8
Lymphoma			Melanoma			MF		
Rank	p-value	GeneSet	Rank	p-value	GeneSet	Rank	p-value	GeneSet
1	6e-46	933 / 8226	1	0.4	4 / 43	1	1e-26	182 / 1013
2	5e-38	825 / 7275	2	0.5	1 / 9	2	3e-21	56 / 169
3	8e-33	867 / 8356	3	0.5	2 / 30	3	7e-19	71 / 399
4	1e-29	863 / 8098	4	1.0	0 / 54	4	2e-08	805 / 8818
5	3e-18	134 / 777	5	1.0	0 / 27	5	5e-08	173 / 1475
6	3e-17	131 / 772	6	1.0	0 / 8	6	8e-08	195 / 1717
7	1e-12	724 / 7448	7	NA	0 / 0	7	6e-06	11 / 29
8	1e-12	39 / 139	8	NA	0 / 0	8	1e-06	6 / 12
9	2e-12	39 / 141	9	NA	0 / 0	9	4e-04	6 / 14
10	6e-12	169 / 1270	10	NA	0 / 0	10	5e-04	5 / 10
11	6e-08	34 / 158	11	NA	0 / 0	11	6e-04	96 / 877
12	7e-08	34 / 159	12	NA	0 / 0	12	1e-03	11 / 48
13	2e-07	613 / 6659	13	NA	0 / 0	13	2e-03	6 / 18
14	5e-07	71 / 493	14	NA	0 / 0	14	2e-03	5 / 13
15	6e-07	641 / 6959	15	NA	0 / 0	15	3e-03	9 / 39
miRNA Disease			miKNA target			Pathw Act		
Rank	p-value	GeneSet	Rank	p-value	GeneSet	Rank	p-value	GeneSet
1	0.4	1 / 6	1	2e-04	14 / 60	1	2e-05	7 / 13
2	0.4	1 / 7	2	3e-04	15 / 70	2	6e-02	3 / 12
3	0.5	1 / 9	3	4e-04	38 / 272	3	1e-01	3 / 15
4	1.0	1 / 40	4	2e-04	28 / 164	4	2e-01	2 / 12
5	1.0	1 / 63	5	6e-04	16 / 82	5	7e-01	1 / 13
6	1.0	1 / 68	6	1e-03	14 / 71	6	7e-01	1 / 13
7	1.0	1 / 102	7	1e-03	58 / 493	7	7e-01	1 / 14
8	1.0	1 / 113	8	2e-03	12 / 58	8	1e+00	0 / 14
9	1.0	1 / 120	9	3e-03	37 / 299	9	1e+00	0 / 11
10	1.0	1 / 123	10	2e-03	17 / 100	10	1e+00	0 / 13
11	1.0	1 / 124	11	2e-03	38 / 299	11	NA	0 / 0
12	1.0	1 / 127	12	3e-03	14 / 77	12	NA	0 / 0
13	1.0	1 / 127	13	3e-03	25 / 176	13	NA	0 / 0
14	1.0	1 / 142	14	3e-03	10 / 47	14	NA	0 / 0
15	1.0	1 / 156	15	3e-03	19 / 122	15	NA	0 / 0
Reference Signatures			Telomeres			TF		
Rank	p-value	GeneSet	Rank	p-value	GeneSet	Rank	p-value	GeneSet
1	1e-66	85 / 119	1	0.4	3 / 27	1	1e-27	210 / 1231
2	5e-48	75 / 132	2	0.7	1 / 13	2	1e-20	219 / 1478
3	4e-39	64 / 119	3	NA	0 / 0	3	7e-20	559 / 5067
4	8e-13	23 / 51	4	NA	0 / 0	4	5e-15	570 / 5466
5	3e-10	17 / 412	5	NA	0 / 0	5	2e-13	565 / 5518
6	1e-08	136 / 1063	6	NA	0 / 0	6	4e-12	636 / 5448
7	1e-08	101 / 724	7	NA	0 / 0	7	7e-12	187 / 1452
8	1e-08	139 / 1097	8	NA	0 / 0	8	8e-12	646 / 6578
9	2e-08	50 / 275	9	NA	0 / 0	9	1e-11	501 / 4890
10	5e-08	90 / 639	10	NA	0 / 0	10	4e-11	487 / 4881
11	9e-08	143 / 1173	11	NA	0 / 0	11	1e-11	636 / 6552
12	1e-07	126 / 1003	12	NA	0 / 0	12	2e-10	255 / 2215
13	2e-07	116 / 912	13	NA	0 / 0	13	2e-10	447 / 4362
14	2e-07	41 / 221	14	NA	0 / 0	14	2e-10	586 / 5984
15	2e-07	143 / 1194	15	NA	0 / 0	15	3e-10	609 / 6267

Correlation Cluster

Spot Summary: W

metagenes = 62
genes = 823

<r> metagenes = 0.95
<r> genes = 0.31
beta: r2= 9.52 / log p= -Inf

samples with spot = 413 (12.2 %)

A* : 2 (0.6 %)
A F* : 2 (0.6 %)
C F* : 7 (2.6 %)
F* : 25 (4.5 %)
F J* : 189 (40.8 %)
J* : 155 (34.7 %)
N* : 33 (7.4 %)

Spot Genelist

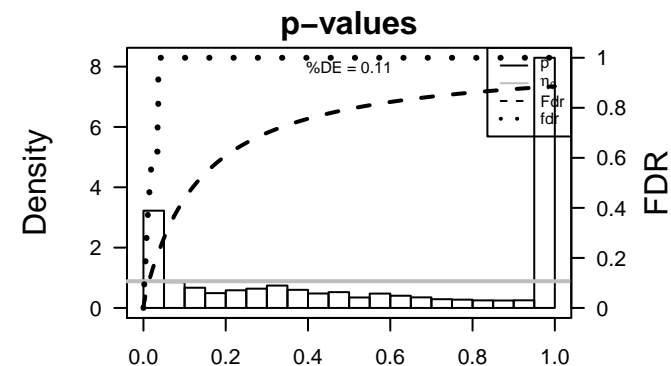
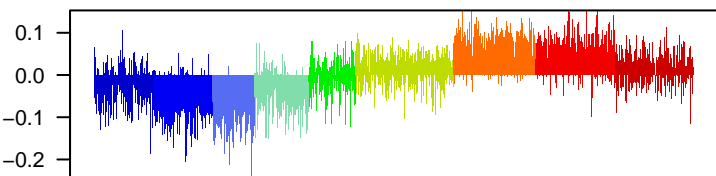
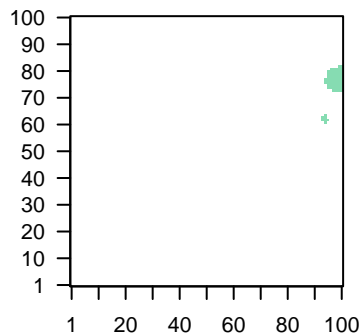
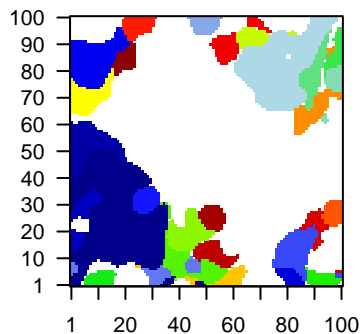
Rank	ID	max e	r	min e	Description
					Symbol
1	ILMN_176146	0.96	-0.79	0.51	CD74 CD74 molecule [Source:HGNC Symbol;Acc:HGNC:1697]
2	ILMN_166860	0.89	-0.76	0.41	
3	ILMN_178617	0.85	-0.97	0.44	CD37 CD37 molecule [Source:HGNC Symbol;Acc:HGNC:1666]
4	ILMN_165798	0.82	-0.55	0.52	TERF2IP TERF2 interacting protein [Source:HGNC Symbol;Acc:HGNC:18809]
5	ILMN_174216	0.79	-0.89	0.64	TUBA1B tubulin alpha 1b [Source:HGNC Symbol;Acc:HGNC:18809]
6	ILMN_232088	0.78	-0.79	0.49	CXCR4 C-X-C motif chemokine receptor 4 [Source:HGNC Symbol;Acc:HGNC:18809]
7	ILMN_178181	0.76	-0.72	0.34	PAPSS1 3'-phosphoadenosine 5'-phosphosulfate synthase 1 [Source:HGNC Symbol;Acc:HGNC:18809]
8	ILMN_228556	0.76	-0.7	0.41	
9	ILMN_177801	0.75	-0.6	0.32	PDPR pyruvate dehydrogenase phosphatase regulatory subunit [Source:HGNC Symbol;Acc:HGNC:18809]
10	ILMN_235945	0.72	-0.67	0.36	ERGIC3 ERGIC and golgi 3 [Source:HGNC Symbol;Acc:HGNC:15927]
11	ILMN_173185	0.71	-0.59	0.57	
12	ILMN_177279	0.7	-0.49	0.58	ARPP19 cAMP regulated phosphoprotein 19 [Source:HGNC Symbol;Acc:HGNC:18809]
13	ILMN_165611	0.68	-0.67	0.4	MYLIP myosin regulatory light chain interacting protein [Source:HGNC Symbol;Acc:HGNC:18809]
14	ILMN_324439	0.68	-0.68	0.57	
15	ILMN_169579	0.67	-0.52	0.48	CUL4A cullin 4A [Source:HGNC Symbol;Acc:HGNC:2554]
16	ILMN_170684	0.66	-0.72	0.59	PGAM4 phosphoglycerate mutase family member 4 [Source:HGNC Symbol;Acc:HGNC:18809]
17	ILMN_225118	0.65	-0.74	0.73	ERP29 endoplasmic reticulum protein 29 [Source:HGNC Symbol;Acc:HGNC:18809]
18	ILMN_165588	0.64	-0.59	0.7	ATP2A2 ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transportii
19	ILMN_237416	0.64	-0.6	0.7	
20	ILMN_177602	0.64	-0.65	0.69	EIF4H eukaryotic translation initiation factor 4H [Source:HGNC Syml

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-93	445 / 7275	LympI HOPP_Txn_elongation
2	6e-86	472 / 8568	Colon TxWk_Colon
3	2e-84	483 / 9054	Colon Tx_Colon
4	2e-80	384 / 5936	Brain Overlap_fetal_midbrain_HetRpts
5	2e-79	489 / 9555	Colon TssA_Colon
6	9e-77	492 / 9815	Brain Overlap_fetal_midbrain_ReprPC
7	8e-70	454 / 8771	Chror 5_Tx_Melanocytes
8	1e-68	426 / 7854	Chror 5_Tx_Fibroblasts
9	3e-68	449 / 8678	Colon Quies3_Colon
10	5e-68	538 / 12298	Chror 2_TssA_Melanocytes
11	2e-67	435 / 8226	Lymp HOPP_Active_promoter
12	3e-67	344 / 5356	Lymp HOPP_Txn_transition
13	3e-61	509 / 11455	Chror 2_TssA_Fibroblasts
14	4e-61	387 / 6970	Chror 5_Tx_Neural_Progenitor
15	4e-53	531 / 12983	Chror 2_TssA_Neural_Progenitor
16	2e-51	443 / 9504	Brain Overlap_fetal_midbrain_K9K27me3
17	1e-48	477 / 10999	Color TssWk_Colon
18	6e-43	438 / 9917	Brain Overlap_fetal_midbrain_ReprPCWk
19	3e-39	405 / 8990	Chror 15_Quies_Fibroblasts
20	2e-36	438 / 10430	Brain Overlap_fetal_midbrain_Quies
21	5e-36	473 / 11836	Chror 3_TssF_Melanocytes
22	2e-35	122 / 1265	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
23	3e-34	483 / 12393	Chror 15_Quies_Neural_Progenitor
24	1e-32	143 / 1797	GSE/ PILON_KLF1_TARGETS_DN
25	5e-32	363 / 8098	Lymp HOPP_Weak_promoter
26	3e-31	287 / 5699	Chror 6_EnhG_Melanocytes
27	6e-31	484 / 12741	Chror 7_Enh_Melanocytes
28	1e-28	260 / 5067	TF ICGC_Taf1_targets
29	4e-28	85 / 783	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
30	1e-27	48 / 242	Refer Chaussabel_3_9_Kinases
31	1e-26	163 / 2535	CC nucleoplasm
32	1e-26	433 / 11130	Chror 15_Quies_Melanocytes
33	1e-24	359 / 8613	Chror 7_Enh_Fibroblasts
34	6e-24	116 / 1547	Color LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP
35	4e-23	54 / 388	GSE/ SHEN_SMARCA2_TARGETS_UP
36	3e-22	318 / 7448	Lymp HOPP_Strong_enhancer
37	6e-22	357 / 8818	MF protein binding
38	2e-21	46 / 302	Refer Chaussabel_3_4_Protein_phosphatases
39	3e-21	113 / 1601	GSE/ GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_DN
40	3e-20	103 / 1417	GSE/ PUJANA_BRCA1_PCC_NETWORK

Overview Map

Spot



Correlation Cluster

Spot Summary: X

metagenes = 69
genes = 172

<r> metagenes = 0.95
<r> genes = 0.05
beta: r2= 0.41 / log p= -Inf

samples with spot = 0 (0 %)

Spot Genelist

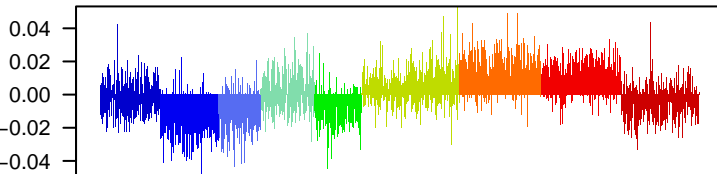
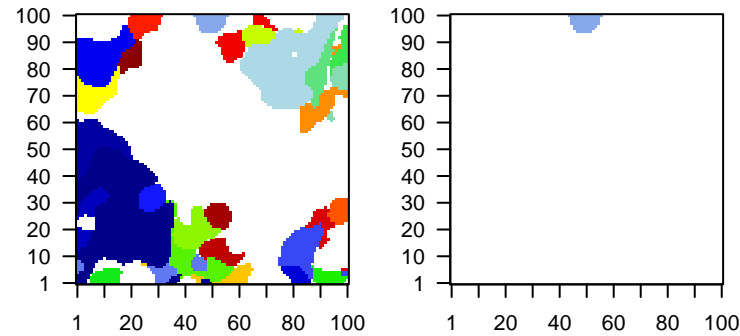
Rank	ID	max e	r	min e	Description
1	ILMN_167181	0.84	-0.38	0.13	UTS2 urotensin 2 [Source:HGNC Symbol;Acc:HGNC:12636]
2	ILMN_323087	0.57	-0.29	0.16	phosphodiesterase 4D interacting protein pseudogene 1 [Sou
3	ILMN_186309	0.36	-0.19	0.2	T cell receptor delta variable 3 [Source:HGNC Symbol;Acc:H
4	ILMN_174888	0.33	-0.28	0.26	TOB2 transducer of ERBB2, 2 [Source:HGNC Symbol;Acc:HGNC:1
5	ILMN_165872	0.31	-0.25	0.27	ZBTB25 zinc finger and BTB domain containing 25 [Source:HGNC Syr
6	ILMN_221287	0.3	-0.19	0.17	ESM1 endothelial cell specific molecule 1 [Source:HGNC Symbol;A
7	ILMN_171117	0.3	-0.19	0.35	CREB3L4& responsive element binding protein 3 like 4 [Source:HC
8	ILMN_171949	0.3	-0.2	0.19	EPHX4 epoxide hydrolase 4 [Source:HGNC Symbol;Acc:HGNC:2375
9	ILMN_324806	0.29	-0.28	0.26	
10	ILMN_191509	0.29	-0.22	0.25	
11	ILMN_179765	0.28	-0.21	0.37	ASCC3 activating signal cointegrator 1 complex subunit 3 [Source:HC
12	ILMN_176630	0.28	-0.21	0.44	MIR658 ankyrin repeat domain 54 [Source:HGNC Symbol;Acc:HGNC
13	ILMN_323387	0.27	-0.31	0.29	ATXN1L ataxin 1 like [Source:HGNC Symbol;Acc:HGNC:33279]
14	ILMN_177146	0.27	-0.18	0.37	RPL36 ribosomal protein L36 [Source:HGNC Symbol;Acc:HGNC:136
15	ILMN_178141	0.27	-0.29	0.38	
16	ILMN_177185	0.27	-0.22	0.38	ZNF575 zinc finger protein 575 [Source:HGNC Symbol;Acc:HGNC:27
17	ILMN_330862	0.27	-0.2	0.19	MIR1471 microRNA 1471 [Source:HGNC Symbol;Acc:HGNC:35380]
18	ILMN_174958	0.26	-0.22	0.35	ZNF777 zinc finger protein 777 [Source:HGNC Symbol;Acc:HGNC:22
19	ILMN_177438	0.26	-0.21	0.31	ZHX3 zinc fingers and homeoboxes 3 [Source:HGNC Symbol;Acc:H
20	ILMN_181196	0.26	-0.23	0.26	protein geranylgeranyltransferase type I subunit beta pseudo

Geneset Overrepresentation

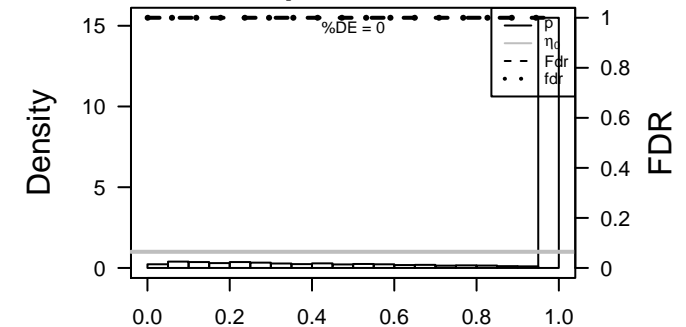
Rank	p-value	#in/all	Geneset
1	3e-04	22 / 1717	MF metal ion binding
2	4e-04	4 / 61	GSE# WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_DN
3	1e-03	2 / 9	GSE# PID_VEGF_VEGFR_PATHWAY
4	1e-03	2 / 9	GSE# REACTOME_VEGF_LIGAND_RECEPTOR_INTERACTIONS
5	1e-03	3 / 38	GSE# KRASNOSELSKAYA_ILF3_TARGETS_DN
6	2e-03	2 / 11	MF actinin binding
7	2e-03	2 / 11	BP positive regulation of nitric-oxide synthase biosynthetic process
8	4e-03	3 / 53	GSE# LEE_LIVER_CANCER_E2F1_UP
9	4e-03	2 / 16	GSE# TERAMOTO_OPN_TARGETS_CLUSTER_7
10	4e-03	2 / 17	BP calcium-mediated signaling using intracellular calcium source
11	4e-03	3 / 57	Lymp# LENZ_Stromal signature 2
12	5e-03	41 / 4828	CC nucleus
13	6e-03	10 / 681	Brain# Overlap_fetal_midbrain_EnhP
14	6e-03	18 / 1643	BP transcription, DNA-templated
15	6e-03	2 / 21	GSE# NIKOLSKY_BREAST_CANCER_19Q13.1_AMPLICON
16	8e-03	2 / 23	GSE# ALONSO_METASTASIS_DN
17	8e-03	3 / 70	GSE# MCBRYAN_PUBERTAL_BREAST_6_7WK_DN
18	8e-03	4 / 136	GSE# WAKABAYASHI_ADIPOGENESIS_PPARG_RXRA_BOUND_WITH_H4K2
19	9e-03	2 / 25	BP response to testosterone
20	1e-02	69 / 9555	Color# TssA_Colon
21	1e-02	2 / 26	GSE# BOGNI_TREATMENT_RELATED_MYELOID_LEUKEMIA_UP
22	1e-02	2 / 26	GSE# BERENJENO_TRANSFORMED_BY_RHOA_REVERSIBLY_DN
23	1e-02	2 / 26	GSE# CHIARETTI_T_ALL_REFRACTORY_TO_THERAPY
24	1e-02	7 / 414	GSE# KIM_WT1_TARGETS_DN
25	1e-02	6 / 318	GSE# COLINA_TARGETS_OF_4EBP1_AND_4EBP2
26	1e-02	16 / 1475	MF DNA binding
27	1e-02	6 / 323	GSE# VECCHI_GASTRIC_CANCER_EARLY_DN
28	1e-02	2 / 28	MF glucuronosyltransferase activity
29	1e-02	69 / 9635	Chror# 3_TssF_Fibroblasts
30	1e-02	5 / 236	GSE# XU_GH1_AUTOCRINE_TARGETS_UP
31	1e-02	2 / 29	MF cyclin-dependent protein serine/threonine kinase activity
32	1e-02	2 / 29	BP regulation of protein kinase activity
33	1e-02	3 / 84	MF hydrolase activity
34	1e-02	4 / 156	GSE# DARWICHE_PAPILLOMA_RISK_HIGH_DN
35	1e-02	2 / 30	GSE# KEGG_GLYCINE_SERINE_AND_THREONINE_METABOLISM
36	1e-02	4 / 158	GSE# DARWICHE_SQUAMOUS_CELL_CARCINOMA_DN
37	1e-02	2 / 31	BP protein O-linked glycosylation
38	1e-02	2 / 31	GSE# DARWICHE_PAPILLOMA_RISK_HIGH_VS_LOW_DN
39	1e-02	2 / 32	CC dendritic shaft
40	1e-02	2 / 32	BP muscle filament sliding

Overview Map

Spot



p-values



Correlation Cluster

Spot Summary: Y

metagenes = 125
genes = 830

<r> metagenes = 0.95
<r> genes = 0.27
beta: r2= 9.17 / log p= -Inf

samples with spot = 343 (10.1 %)

A* : 1 (0.3 %)
A F* : 2 (0.6 %)
C F* : 1 (0.4 %)
F* : 15 (2.7 %)
F J* : 193 (41.7 %)
J* : 128 (28.6 %)
N* : 3 (0.7 %)

Spot Genelist

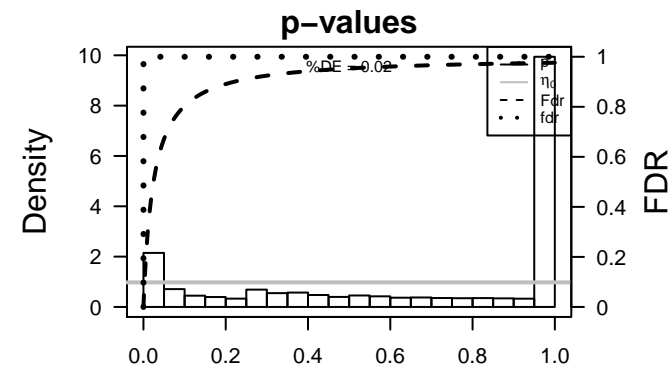
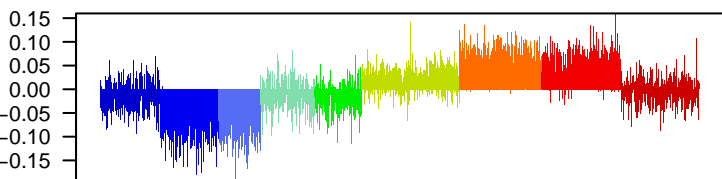
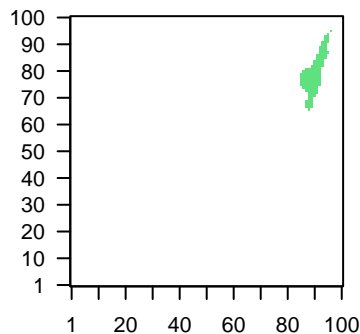
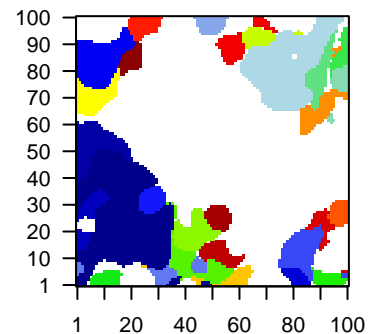
Rank	ID	max e	r	min e	Description
1	ILMN_229476	1.15	-0.77	0.28	AMY1A amylase, alpha 1A (salivary) [Source:HGNC Symbol;Acc:HGNC:10000]
2	ILMN_168842	1.05	-1.38	0.29	FCER1A Fc fragment of IgE receptor Ia [Source:HGNC Symbol;Acc:HGNC:10000]
3	ILMN_175424	0.79	-0.69	0.39	
4	ILMN_175316	0.77	-0.9	0.16	IPO8 importin 8 [Source:HGNC Symbol;Acc:HGNC:9853]
5	ILMN_169342	0.77	-0.67	0.61	
6	ILMN_169417	0.72	-0.62	0.78	PCNA proliferating cell nuclear antigen [Source:HGNC Symbol;Acc:HGNC:10000]
7	ILMN_235202	0.71	-0.97	0.08	DSTYK dual serine/threonine and tyrosine protein kinase [Source:HGNC Symbol;Acc:HGNC:10000]
8	ILMN_236702	0.69	-0.59	0.71	SEC61G Sec61 translocon gamma subunit [Source:HGNC Symbol;Acc:HGNC:10000]
9	ILMN_213613	0.68	-0.71	0.61	MIR7705poly(A) binding protein cytoplasmic 1 [Source:HGNC Symbol;Acc:HGNC:10000]
10	ILMN_326660	0.65	-0.47	0.56	fatty acid binding protein 5 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:10000]
11	ILMN_240021	0.65	-0.5	0.35	SRI sorcin [Source:HGNC Symbol;Acc:HGNC:11292]
12	ILMN_180948	0.64	-0.47	0.67	SPCS2 signal peptidase complex subunit 2 [Source:HGNC Symbol;Acc:HGNC:10000]
13	ILMN_229907	0.64	-0.61	0.23	LUC7L3 LUC7 like 3 pre-mRNA splicing factor [Source:HGNC Symbol;Acc:HGNC:10000]
14	ILMN_236639	0.63	-0.62	0.62	
15	ILMN_168356	0.63	-0.56	0.74	small nuclear ribonucleoprotein polypeptide G pseudogene 5
16	ILMN_172028	0.62	-0.56	0.73	ESD esterase D [Source:HGNC Symbol;Acc:HGNC:3465]
17	ILMN_330066	0.62	-0.82	0.64	SLC35E2 solute carrier family 35 member E2B [Source:HGNC Symbol;Acc:HGNC:10000]
18	ILMN_165546	0.62	-0.42	0.58	TSPAN3 tetraspanin 3 [Source:HGNC Symbol;Acc:HGNC:17752]
19	ILMN_322858	0.61	-0.68	0.5	SLC35E2 solute carrier family 35 member E2B [Source:HGNC Symbol;Acc:HGNC:10000]
20	ILMN_176766	0.61	-0.63	0.47	CERS6 ceramide synthase 6 [Source:HGNC Symbol;Acc:HGNC:238]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-90	537 / 9815	Brain Overlap_fetal_midbrain_ReprPC
2	4e-76	471 / 8226	Lymph HOPE_Active_promoter
3	3e-74	438 / 7275	Lymph HOPE_Txn_elongation
4	1e-71	553 / 11455	Chrom 2_TssA_Fibroblasts
5	2e-69	570 / 12298	Chrom 2_TssA_Melanocytes
6	5e-60	461 / 8771	Chrom 5_Tx_Melanocytes
7	4e-59	367 / 5936	Brain Overlap_fetal_midbrain_HetRpts
8	7e-58	569 / 12983	Chrom 2_TssA_Neural_Progenitor
9	1e-54	423 / 7854	Chrom 5_Tx_Fibroblasts
10	2e-53	472 / 9555	Colon TssA_Colon
11	4e-49	420 / 8098	Lymph HOPE_Weak_promoter
12	2e-46	429 / 8568	Colon TxWk_Colon
13	1e-45	431 / 8678	Colon Quies3_Colon
14	2e-43	451 / 9504	Brain Overlap_fetal_midbrain_K9K27me3
15	2e-42	491 / 10999	Colon TssWk_Colon
16	4e-42	435 / 9054	Colon Tx_Colon
17	2e-40	366 / 6970	Chrom 5_Tx_Neural_Progenitor
18	2e-39	427 / 8990	Chrom 15_Quies_Fibroblasts
19	1e-33	441 / 9917	Brain Overlap_fetal_midbrain_ReprPCWk
20	2e-32	492 / 11836	Chrom 3_TssF_Melanocytes
21	3e-29	111 / 1161	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
22	2e-28	113 / 1222	GSE/ DODD_NASOPHARYNGEAL_CARINOMA_DN
23	4e-28	462 / 11130	Chrom 15_Quies_Melanocytes
24	8e-28	281 / 5356	Lymph HOPE_Txn_transition
25	3e-26	318 / 6559	Lymph HOPE_Weak_txn
26	1e-24	134 / 1797	GSE/ PILON_KLF1_TARGETS_DN
27	2e-23	82 / 800	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
28	8e-23	141 / 2043	Glio Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
29	5e-21	422 / 10430	Brain Overlap_fetal_midbrain_Quies
30	1e-19	312 / 6959	Lymph HOPE_Weak_enhancer
31	2e-19	472 / 12393	Chrom 15_Quies_Neural_Progenitor
32	1e-18	110 / 1547	Colon LaPointe_mucosa-position_kmeans_N_ascending_colon_UP
33	1e-18	104 / 1417	GSE/ PUJANA_BRCA1_PCC_NETWORK
34	1e-18	123 / 1846	Chrom 14_ZNF_Melanocytes
35	1e-18	120 / 1777	Glio Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
36	2e-18	245 / 5067	TF ICGC_Taf1_targets
37	7e-18	68 / 716	GSE/ WEI_MYCN_TARGETS_WITH_E_BOX
38	1e-17	95 / 1265	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
39	2e-17	48 / 388	GSE/ SHEN_SMARCA2_TARGETS_UP
40	3e-17	72 / 811	GSE/ LEE_BMP2_TARGETS_DN

Overview Map

Spot



Correlation Cluster

Spot Summary: Z

metagenes = 64
genes = 938

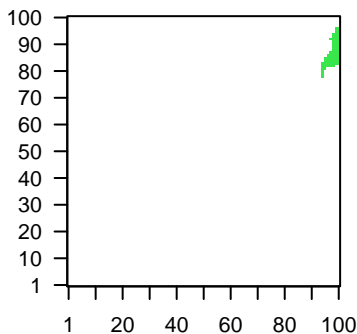
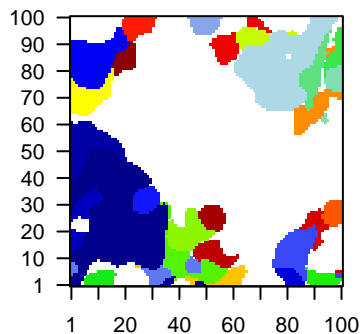
<r> metagenes = 0.95
<r> genes = 0.4
beta: r2= 28.39 / log p= -Inf

samples with spot = 865 (25.5 %)

A* : 9 (2.6 %)
A F* : 6 (1.9 %)
C F* : 22 (8.3 %)
F* : 87 (15.7 %)
F J* : 367 (79.3 %)
J* : 291 (65.1 %)
N* : 83 (18.7 %)

Overview Map

Spot

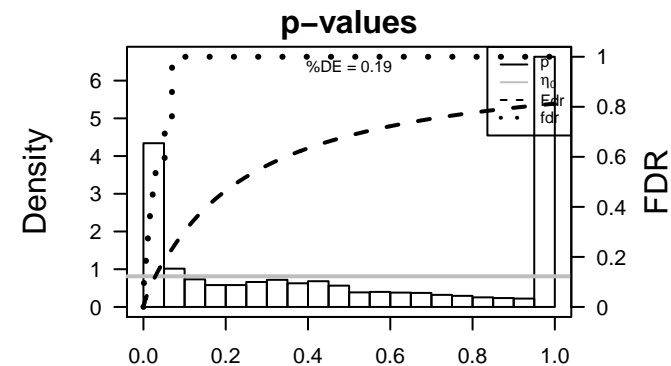
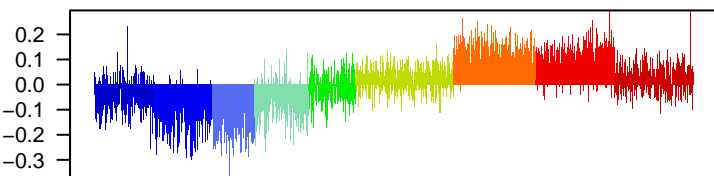


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ILMN_169749	5.33	-1.74	0.06	HLA-DRB1 major histocompatibility complex, class II, DR beta 5 [Source:HGNC Symbol;Acc:HGNC:10320]
2	ILMN_171516	4.62	-2.25	0.07	HLA-DQA1 major histocompatibility complex, class II, DQ alpha 1 [Source:HGNC Symbol;Acc:HGNC:10321]
3	ILMN_179817	2.09	-1.22	0.16	CHURC1 churchill domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10322]
4	ILMN_181589	1.69	-2.79	0.16	HLA-DQA2 major histocompatibility complex, class II, DQ alpha 2 [Source:HGNC Symbol;Acc:HGNC:10323]
5	ILMN_175259	1.47	-1.51	0.39	HLA-DPB1 major histocompatibility complex, class II, DP beta 1 [Source:HGNC Symbol;Acc:HGNC:10324]
6	ILMN_321438	1.33	-1.23	0.23	HLA-DQB1 major histocompatibility complex, class II, DQ beta 1 [Source:HGNC Symbol;Acc:HGNC:10325]
7	ILMN_224608	1.32	-1.59	0.12	CCZ1B CCZ1 homolog B, vacuolar protein trafficking and biogenesis [Source:HGNC Symbol;Acc:HGNC:10326]
8	ILMN_238175	1.25	-1.46	0.39	G3BP2 G3BP stress granule assembly factor 2 [Source:HGNC Symbol;Acc:HGNC:10327]
9	ILMN_171726	1.21	-1.06	0.35	SH2D1B SH2 domain containing 1B [Source:HGNC Symbol;Acc:HGNC:10328]
10	ILMN_170123	1.12	-0.93	0.41	MTSS1 metastasis suppressor 1 [Source:HGNC Symbol;Acc:HGNC:10329]
11	ILMN_207328	1.1	-0.98	0.58	MTSS1 metastasis suppressor 1 [Source:HGNC Symbol;Acc:HGNC:10329]
12	ILMN_172042	1.05	-0.98	0.4	G3BP2 G3BP stress granule assembly factor 2 [Source:HGNC Symbol;Acc:HGNC:10327]
13	ILMN_177221	1.05	-1	0.59	HLA-DPA1 major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:HGNC:10330]
14	ILMN_322868	1.04	-0.87	0.52	HLA-DRB1 major histocompatibility complex, class II, DR beta 1 [Source:HGNC Symbol;Acc:HGNC:10325]
15	ILMN_176641	1.03	-0.96	0.75	AP1S2 adaptor related protein complex 1 sigma 2 subunit [Source:HGNC Symbol;Acc:HGNC:10331]
16	ILMN_231390	1.03	-0.92	0.31	PAM peptidylglycine alpha-amidating monooxygenase [Source:HGNC Symbol;Acc:HGNC:10332]
17	ILMN_174907	0.99	-0.68	0.44	HLA-DPB1 major histocompatibility complex, class II, DP beta 1 [Source:HGNC Symbol;Acc:HGNC:10324]
18	ILMN_219840	0.97	-1.14	0.22	HLA-DQA1 major histocompatibility complex, class II, DQ alpha 1 [Source:HGNC Symbol;Acc:HGNC:10321]
19	ILMN_173656	0.96	-1.09	0.48	CD74 CD74 molecule [Source:HGNC Symbol;Acc:HGNC:1697]
20	ILMN_171806	0.96	-0.89	0.59	LIPA lipase A, lysosomal acid type [Source:HGNC Symbol;Acc:HGNC:10333]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	642 / 8226	Lymph HOPE_Active_promoter
2	1e-99	612 / 7275	Lymph HOPE_Txn_elongation
3	1e-99	468 / 5356	Lymph HOPE_Txn_transition
4	1e-99	612 / 8678	Colon Quies3_Colon
5	1e-99	661 / 9555	Colon TssA_Colon
6	1e-99	672 / 10999	Colon TssWk_Colon
7	1e-99	632 / 9054	Colon Tx_Colon
8	1e-99	621 / 8568	Colon TxWk_Colon
9	1e-99	680 / 9815	Brain Overlap_fetal_midbrain_ReprPC
10	1e-99	517 / 5936	Brain Overlap_fetal_midbrain_HetRpts
11	1e-99	723 / 12983	Chrom 2_TssA_Neural_Progenitor
12	1e-99	522 / 6970	Chrom 5_Tx_Neural_Progenitor
13	1e-99	715 / 12298	Chrom 2_TssA_Melanocytes
14	1e-99	639 / 8771	Chrom 5_Tx_Melanocytes
15	1e-99	591 / 8990	Chrom 15_Quies_Fibroblasts
16	1e-99	701 / 11455	Chrom 2_TssA_Fibroblasts
17	1e-99	586 / 7854	Chrom 5_Tx_Fibroblasts
18	4e-96	555 / 8098	Lymph HOPE_Weak_promoter
19	9e-89	592 / 9504	Brain Overlap_fetal_midbrain_K9K27me3
20	3e-87	603 / 9917	Brain Overlap_fetal_midbrain_ReprPCWk
21	1e-76	670 / 12741	Chrom 7_Enh_Melanocytes
22	7e-74	192 / 1265	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
23	8e-71	615 / 11130	Chrom 15_Quies_Melanocytes
24	5e-70	592 / 10430	Brain Overlap_fetal_midbrain_Quies
25	2e-69	206 / 1547	Color LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP
26	1e-67	220 / 1797	GSE/ PILON_KLF1_TARGETS_DN
27	7e-66	644 / 12393	Chrom 15_Quies_Neural_Progenitor
28	1e-64	626 / 11836	Chrom 3_TssF_Melanocytes
29	2e-55	96 / 388	GSE/ SHEN_SMARCA2_TARGETS_UP
30	2e-52	101 / 465	GSE/ MILL_PSEUDOPODIA_HAPTOTAXIS_UP
31	7e-51	495 / 8613	Chrom 7_Enh_Fibroblasts
32	9e-48	99 / 498	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP
33	5e-47	494 / 8818	MF protein binding
34	1e-45	441 / 7448	Lymph HOPE_Strong_enhancer
35	3e-45	124 / 841	GSE/ ACEVEDO_LIVER_CANCER_UP
36	1e-44	405 / 6559	Lymph HOPE_Weak_txn
37	2e-41	73 / 302	Refer Chaussabel_3_4_Protein_phosphatases
38	1e-39	409 / 6959	Lymph HOPE_Weak_enhancer
39	1e-38	112 / 800	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
40	2e-37	97 / 622	GSE/ SCHLOSSER_SERUM_RESPONSE_DN



Correlation Cluster

Spot Summary: A1

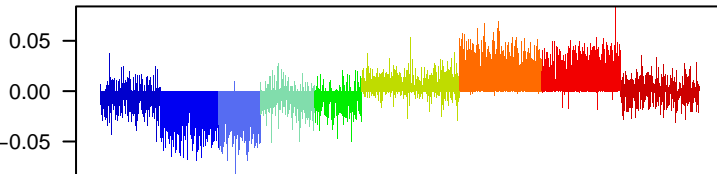
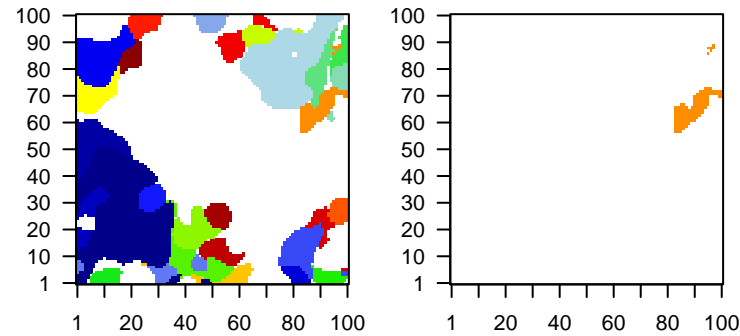
metagenes = 134
genes = 827

<r> metagenes = 0.92
<r> genes = 0.11
beta: r2= 1.85 / log p= -Inf

samples with spot = 3 (0.1 %)
F J * : 2 (0.4 %)
J * : 1 (0.2 %)

Overview Map

Spot

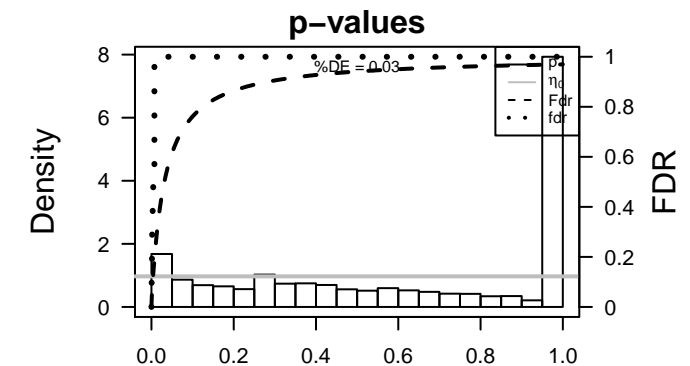


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ILMN_173219	0.79	-0.26	0.14	UTS2 urotensin 2 [Source:HGNC Symbol;Acc:HGNC:12636]
2	ILMN_172429	0.78	-0.57	0.27	KDELRL2 KDEL endoplasmic reticulum protein retention receptor 2 [So
3	ILMN_178460	0.75	-0.58	0.18	
4	ILMN_207543	0.69	-0.47	0.56	protein disulfide isomerase family A member 3 pseudogene 1
5	ILMN_171906	0.68	-0.47	0.18	KCTD10 potassium channel tetramerization domain containing 10 [So
6	ILMN_180026	0.64	-0.56	0.46	TUBA1B tubulin alpha 1b [Source:HGNC Symbol;Acc:HGNC:18809]
7	ILMN_181512	0.6	-0.63	0.38	CHCHD2coiled-coil-helix-coiled-coil-helix domain containing 2 [Sour
8	ILMN_171813	0.57	-0.72	0.46	UOQRHLubiquinol-cytochrome c reductase hinge protein like [Source:
9	ILMN_170816	0.57	-0.55	0.55	EIF3A eukaryotic translation initiation factor 3 subunit A [Source:HGI
10	ILMN_219168	0.56	-0.66	0.31	CHCHD2coiled-coil-helix-coiled-coil-helix domain containing 2 [Sour
11	ILMN_172085	0.55	-0.56	0.34	ABRACL ABRA C-terminal like [Source:HGNC Symbol;Acc:HGNC:212
12	ILMN_168035	0.55	-0.44	0.6	NSF N-ethylmaleimide sensitive factor, vesicle fusing ATPase [So
13	ILMN_177331	0.55	-0.42	0.17	MIR1307up-regulated during skeletal muscle growth 5 homolog (mous
14	ILMN_175592	0.54	-0.51	0.35	
15	ILMN_165601	0.54	-0.36	0.35	RGS1 regulator of G-protein signaling 1 [Source:HGNC Symbol;Acc
16	ILMN_174246	0.54	-0.43	0.61	UAP1 UDP-N-acetylglucosamine pyrophosphorylase 1 [Source:HC
17	ILMN_173118	0.52	-0.39	0.64	TEX2 testis expressed 2 [Source:HGNC Symbol;Acc:HGNC:30884]
18	ILMN_172784	0.51	-0.33	0.45	SLC35B1solute carrier family 35 member B1 [Source:HGNC Symbol;A
19	ILMN_222018	0.51	-0.39	0.73	GFPT1 glutamine-fructose-6-phosphate transaminase 1 [Source:G
20	ILMN_231801	0.51	-0.45	0.61	PSMA3 proteasome subunit alpha 3 [Source:HGNC Symbol;Acc:HGNC

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-56	488 / 9815	Brain Overlap_fetal_midbrain_ReprPC
2	2e-53	566 / 12983	Chror 2_TssA_Neural_Progenitor
3	1e-52	548 / 12298	Chror 2_TssA_Melanocytes
4	3e-51	448 / 8771	Chror 5_Tx_Melanocytes
5	1e-48	426 / 8226	Lympl HOPP_Active_promoter
6	2e-46	410 / 7854	Chror 5_Tx_Fibroblasts
7	2e-45	513 / 11455	Chror 2_TssA_Fibroblasts
8	6e-45	442 / 8990	Chror 15_Quies_Fibroblasts
9	4e-42	494 / 10999	Colon TssWk_Colon
10	8e-42	497 / 11130	Chror 15_Quies_Melanocytes
11	1e-37	443 / 9555	Colon TssA_Colon
12	1e-34	447 / 9917	Brain Overlap_fetal_midbrain_ReprPCWk
13	4e-33	388 / 8098	Lympl HOPP_Weak_promoter
14	4e-33	406 / 8678	Color Quies3_Colon
15	3e-31	357 / 7275	Lympl HOPP_Txn_elongation
16	1e-29	343 / 6970	Chror 5_Tx_Neural_Progenitor
17	1e-29	308 / 5936	Brain Overlap_fetal_midbrain_HetRpts
18	3e-29	503 / 12393	Chror 15_Quies_Neural_Progenitor
19	1e-28	391 / 8568	Color TxWk_Colon
20	2e-25	411 / 9504	Brain Overlap_fetal_midbrain_K9K27me3
21	2e-25	478 / 11836	Chror 3_TssF_Melanocytes
22	2e-24	500 / 12741	Chror 7_Enh_Melanocytes
23	7e-24	393 / 9054	Color Tx_Colon
24	7e-23	142 / 2043	Glio Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
25	6e-21	97 / 1161	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
26	1e-18	298 / 6559	Lympl HOPP_Weak_txn
27	2e-18	417 / 10430	Brain Overlap_fetal_midbrain_Quies
28	4e-18	216 / 4237	Chror 14_ZNF_Neural_Progenitor
29	5e-16	302 / 6959	Lympl HOPP_Weak_enhancer
30	7e-16	68 / 777	Lympl WIRTH_lymphoma937_spot D
31	3e-15	351 / 8613	Chror 7_Enh_Fibroblasts
32	6e-15	199 / 4034	Color TssD1_Colon
33	6e-15	66 / 772	Lympl Hopp_June14_MMML937_tumors+controls_group.overexpression_D_cell
34	4e-14	86 / 1222	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_DN
35	3e-13	229 / 5067	TF ICGC_Taf1_targets
36	1e-12	109 / 1846	Chror 14_ZNF_Melanocytes
37	3e-12	105 / 1777	Glio Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
38	3e-12	62 / 800	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
39	2e-11	214 / 4828	CC nucleus
40	8e-11	80 / 1270	Lympl SPANG_BCR_UP



Correlation Cluster

Spot Summary: B1

metagenes = 65
genes = 131

<r> metagenes = 0.92

<r> genes = 0.11

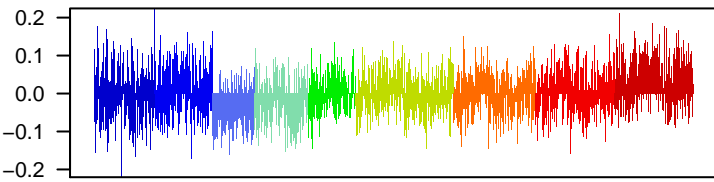
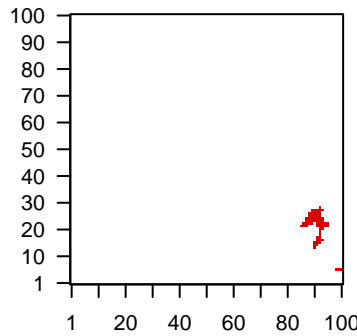
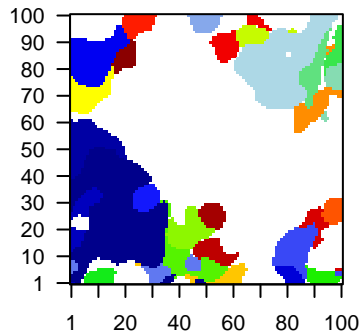
beta: r2= 7.99 / log p= -Inf

samples with spot = 451 (13.3 %)

- A* : 50 (14.5 %)
- AC* : 62 (18.9 %)
- ACF* : 4 (1.7 %)
- AF* : 22 (7.1 %)
- CF* : 22 (8.3 %)
- F* : 55 (9.9 %)
- FJ* : 43 (9.3 %)
- J* : 60 (13.4 %)
- N* : 133 (30 %)

Overview Map

Spot



Spot Genelist

Rank	ID	max e	r	min e	Description
1	ILMN_209565	1.43	-0.84	0.3	AFMID arylformamidase [Source:HGNC Symbol;Acc:HGNC:20910]
2	ILMN_169333	1.29	-1.28	0.64	CYP1B1 cytochrome P450 family 1 subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:11429]
3	ILMN_172077	1.2	-0.92	0.76	STX11 syntaxin 11 [Source:HGNC Symbol;Acc:HGNC:11429]
4	ILMN_170728	1.06	-0.97	0.8	PLBD1 phospholipase B domain containing 1 [Source:HGNC Symbol;Acc:HGNC:11429]
5	ILMN_191367	1.04	-0.95	0.67	MIR6502interleukin 1 receptor associated kinase 3 [Source:HGNC Symbol;Acc:HGNC:11429]
6	ILMN_180125	1.01	-0.7	0.54	
7	ILMN_167212	1	-0.82	0.67	FAM198Bfamily with sequence similarity 198 member B [Source:HGNC Symbol;Acc:HGNC:11429]
8	ILMN_174233	1	-0.98	0.64	KCTD12 potassium channel tetramerization domain containing 12 [Source:HGNC Symbol;Acc:HGNC:11429]
9	ILMN_167962	0.92	-0.8	0.58	
10	ILMN_170473	0.9	-0.89	0.66	CD93 CD93 molecule [Source:HGNC Symbol;Acc:HGNC:15855]
11	ILMN_223086	0.89	-0.68	0.64	GYG1 glycogenin 1 [Source:HGNC Symbol;Acc:HGNC:4699]
12	ILMN_175893	0.88	-0.83	0.67	SLC31A2solute carrier family 31 member 2 [Source:HGNC Symbol;Acc:HGNC:11429]
13	ILMN_166906	0.87	-0.75	0.58	CCR2 C-C motif chemokine receptor 2 [Source:HGNC Symbol;Acc:HGNC:11429]
14	ILMN_177954	0.86	-0.66	0.66	HPSE heparanase [Source:HGNC Symbol;Acc:HGNC:5164]
15	ILMN_239602	0.85	-0.87	0.58	DUSP6 dual specificity phosphatase 6 [Source:HGNC Symbol;Acc:HGNC:11429]
16	ILMN_175331	0.83	-0.7	0.77	PLXDC2 plexin domain containing 2 [Source:HGNC Symbol;Acc:HGNC:11429]
17	ILMN_323642	0.82	-0.77	0.74	TMEM170Btransmembrane protein 170B [Source:HGNC Symbol;Acc:HGNC:11429]
18	ILMN_167519	0.82	-0.87	0.43	GAPT GRB2-binding adaptor protein, transmembrane [Source:HGNC Symbol;Acc:HGNC:11429]
19	ILMN_179571	0.82	-0.82	0.7	DPYD dihydropyrimidine dehydrogenase [Source:HGNC Symbol;Acc:HGNC:11429]
20	ILMN_174100	0.81	-0.77	0.54	ANXA5 annexin A5 [Source:HGNC Symbol;Acc:HGNC:543]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-08	11 / 240	Refer Chaussabel_3_3_Inflammation II
2	7e-07	9 / 202	GSE# JAATINEN_HEMATOPOIETIC_STEM_CELL_DN
3	2e-06	58 / 6959	Lymph HOPP_Weak_enhancer
4	3e-06	7 / 129	GSE# HUANG_GATA2_TARGETS_UP
5	6e-06	9 / 267	Glio WILLSCHER_GBM_Verhaak-CL & MES_up
6	9e-06	15 / 810	Colon Lembcke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
7	9e-06	7 / 151	GSE# DURAND_STROMA_NS_UP
8	2e-05	9 / 300	Lymph Hopp_June14_MMML937_tumors+controls_group.overexpression_E_GC-DN
9	2e-05	9 / 301	Canci SPANG_BCL6-index2
10	2e-05	9 / 306	Lymph WIRTH_lymphoma937_spot E
11	2e-05	9 / 315	GSE# SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
12	3e-05	10 / 413	MF protein heterodimerization activity
13	4e-05	7 / 187	GSE# PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
14	4e-05	5 / 79	GSE# TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6HR_UP
15	4e-05	6 / 131	GSE# LINDGREN_BLADDER_CANCER_CLUSTER_2A_DN
16	7e-05	5 / 87	Lymph Hopp_Lymphoma_Epi1_with_zentr_v_B.cell_DN
17	7e-05	6 / 142	Color Marisa_CRC-cluster-a
18	7e-05	74 / 10999	Color TssWk_Colon
19	9e-05	7 / 214	GSE# GAL_LEUKEMIC_STEM_CELL_DN
20	9e-05	4 / 48	GSE# ROSS_AML_WITH_CBFB_MYH11_FUSION
21	9e-05	6 / 150	Refer Chaussabel_2_6_Myeloid lineage
22	9e-05	6 / 150	GSE# BROWN_MYELOID_CELL_DEVELOPMENT_UP
23	1e-04	21 / 1797	GSE# PILON_KLF1_TARGETS_DN
24	2e-04	6 / 164	GSE# VERHAAK_AML_WITH_NPM1_MUTATED_UP
25	2e-04	7 / 236	GSE# BILD_HRAS_ONCOGENIC_SIGNATURE
26	2e-04	7 / 238	GSE# MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_UP
27	2e-04	5 / 113	Refer Chaussabel_1_5_Myeloid lineage
28	3e-04	4 / 63	miRN hsa-miR-618
29	3e-04	3 / 26	BP positive regulation of vascular endothelial growth factor production
30	3e-04	4 / 64	miRN hsa-miR-1278
31	3e-04	4 / 64	GSE# REACTOME_MEIOTIC_SYNOPSIS
32	3e-04	7 / 268	GSE# WANG_SMARCE1_TARGETS_UP
33	3e-04	7 / 268	GSE# CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_4
34	4e-04	8 / 358	GSE# CHYLA_CBFA2T3_TARGETS_UP
35	4e-04	3 / 29	GSE# VALK_AML_CLUSTER_5
36	4e-04	8 / 366	GSE# RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP
37	4e-04	8 / 368	GSE# OSMAN_BLADDER_CANCER_UP
38	5e-04	2 / 7	GSE# FIGUEROA_AML_METHYLATION_CLUSTER_2_DN
39	5e-04	4 / 75	GSE# BASSO_HAIRY_CELL_LEUKEMIA_DN
40	6e-04	7 / 293	miRN hsa-miR-34c-5p

