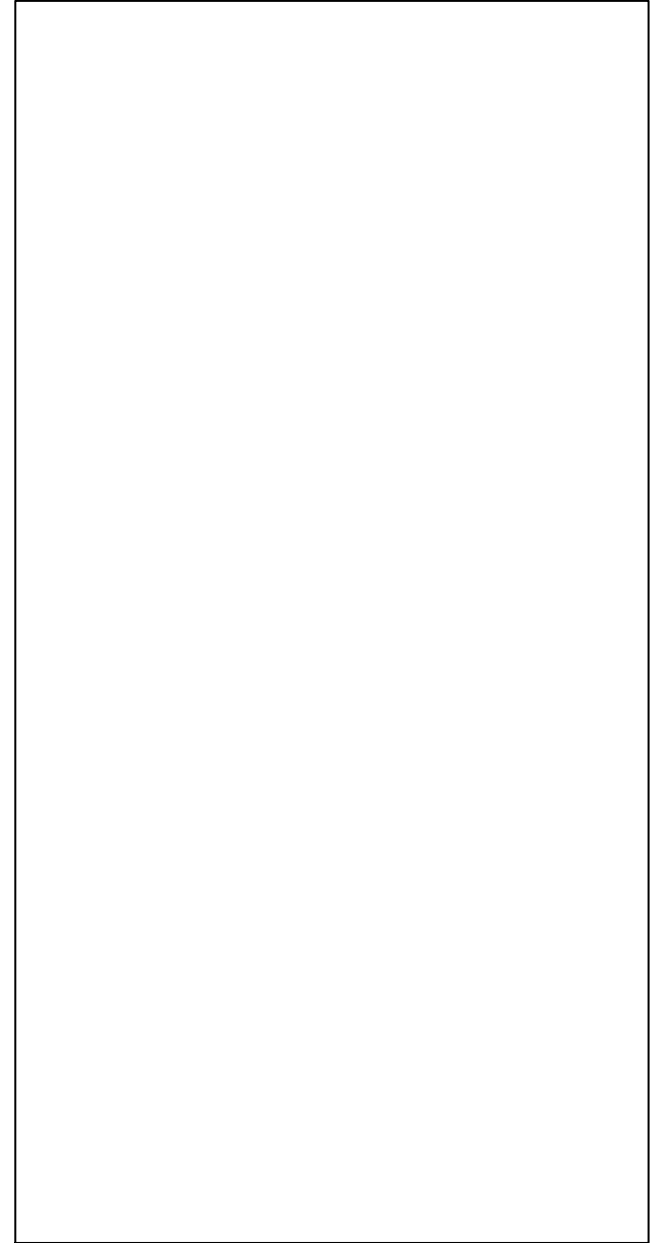
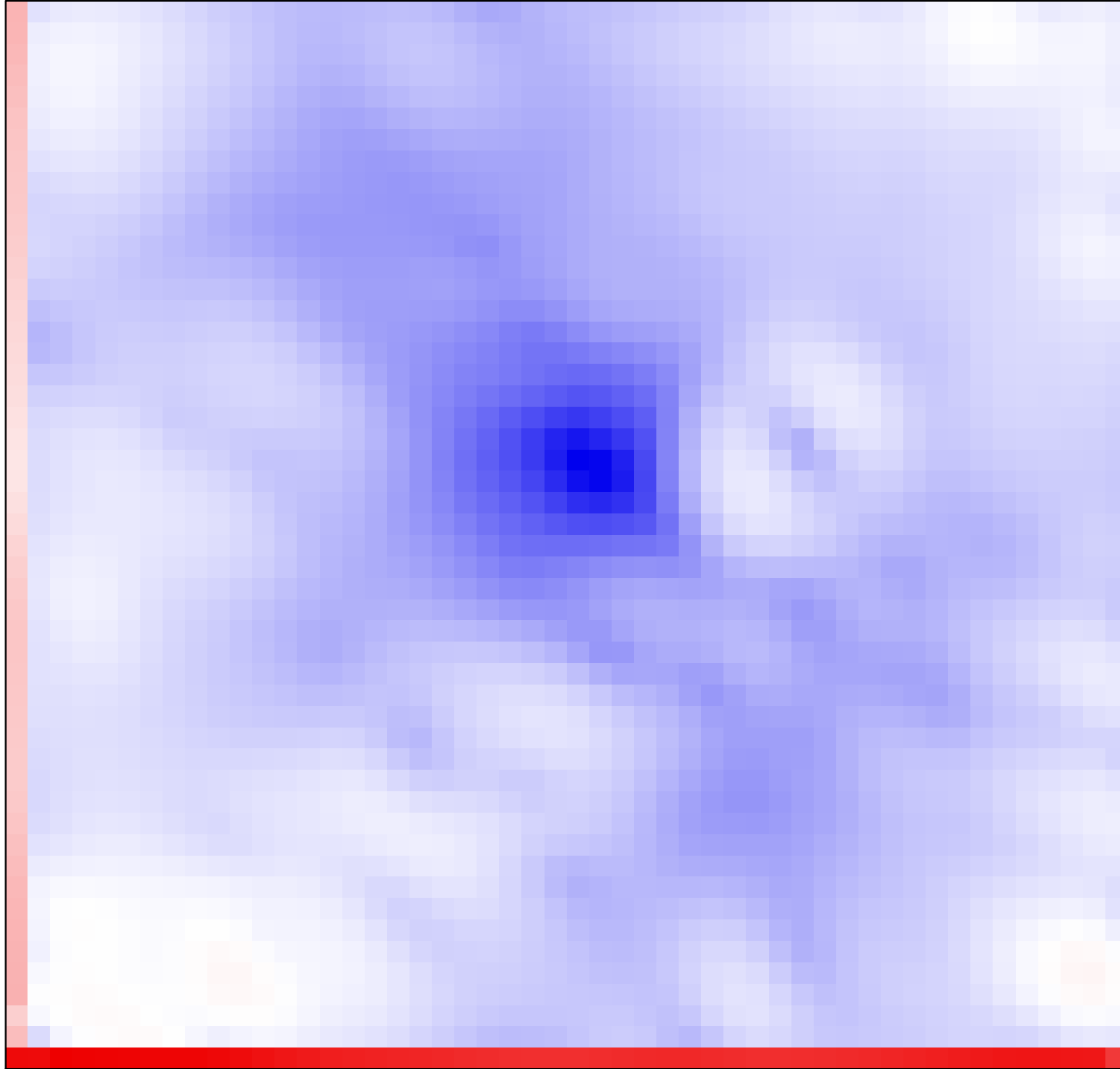


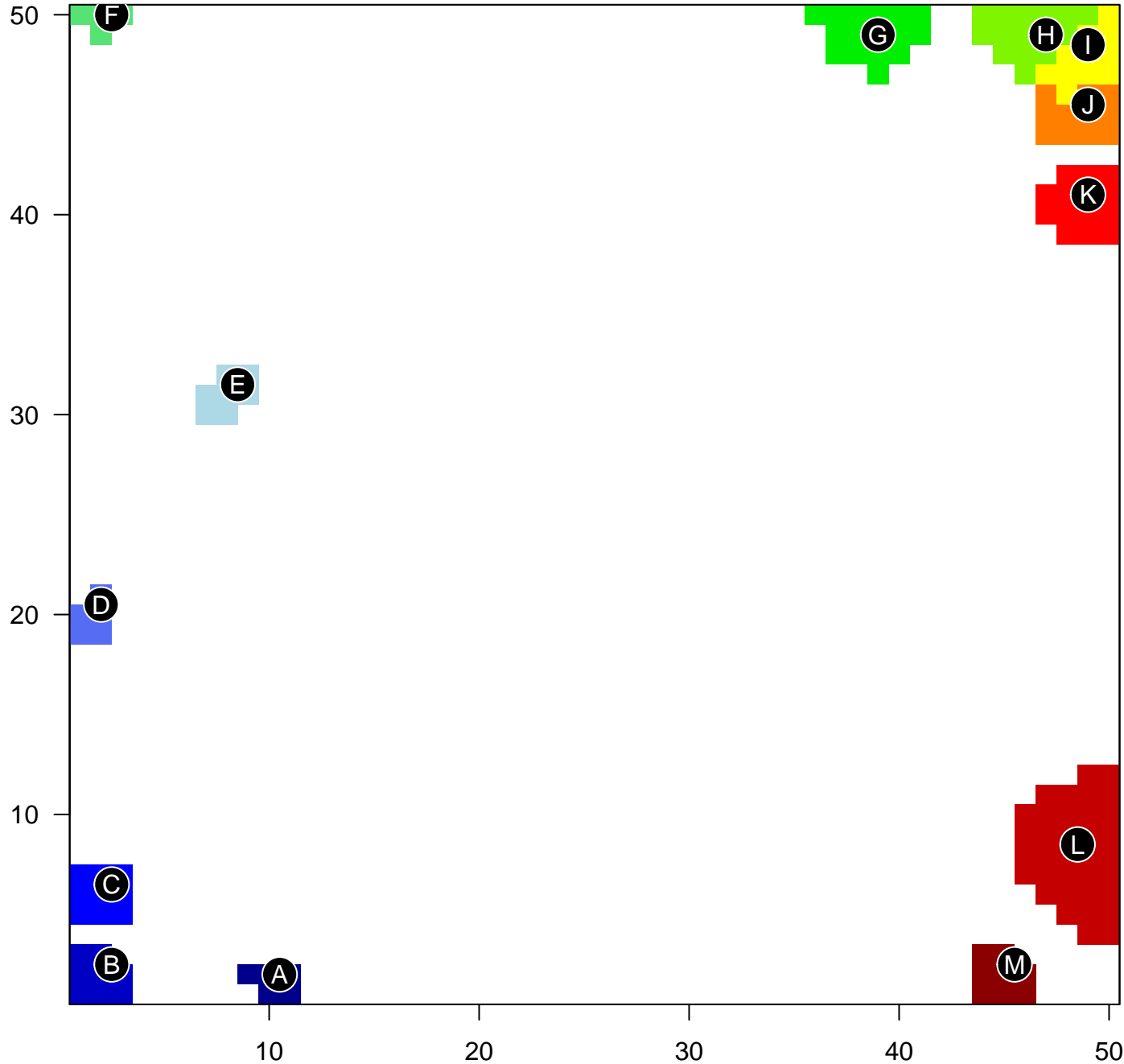
D-Cluster

landscape

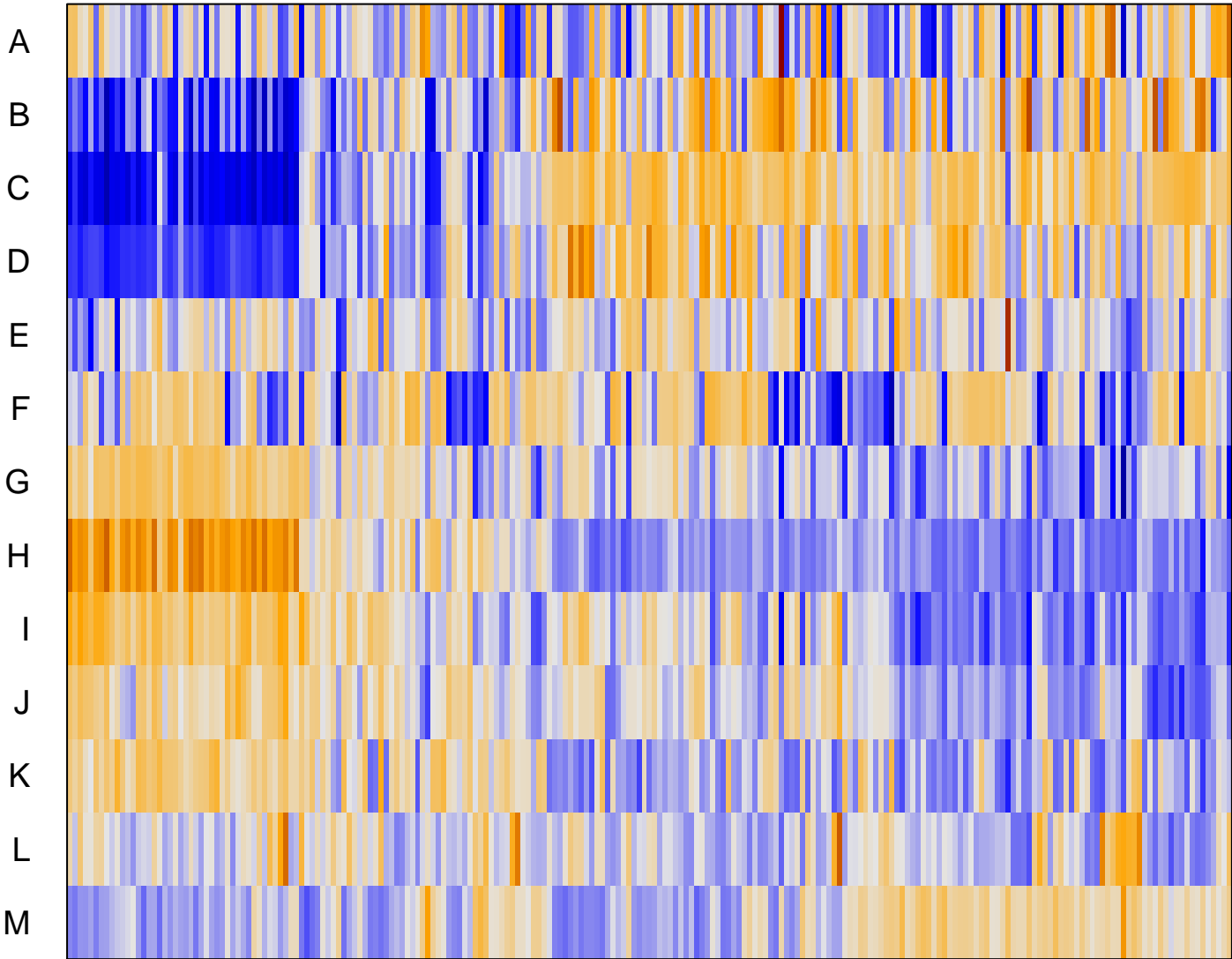


D-Cluster

annotation



- A ■ SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
LENZ_Stromal signature 1
- B ■ Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_U
WIRTH_EBV B-cells
ScoV_0.999_Sturm_E4_Mesenchymal_RTK I 'PDGFRA' D
- C ■ Sha_DLBCL UP
Victoria_Light zone signature
BASSO_CD40_SIGNALING_UP
- D ■ Fetal_TssA
Tcells peripheral blood_11_BivFlnk
WIRTH_post GC B-cells
- E ■ TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_UP
TARTE_Plasma cell signature
PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_UP
- F ■ WILLSCHER_GBM_Verhaak-PNwt & CL_up
Chaussabel_2,9_Cytoskeleton
SENESE_HDAC1_TARGETS_UP
- G ■ WILLSCHER_GBM_Verhaak-CL_up (C)
Gerber_wt/wt_melanoma-cells-SpotA
KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
- H ■ HUMMEL_BURKITT'S_LYMPHOMA_UP
Victoria_Dark zone signature
Sha_BL UP
- I ■ PUJANA_BRCA2_PCC_NETWORK
HOPP_Txn_elongation
Bcells peripheral blood_1_TssA
- J ■ Bcells peripheral blood_1_TssA
4_Tx_ESC_Mesoderm
Tcells peripheral blood_4_Tx
- K ■ SPANG_CD40 6hrs UP
HOLLMANN_APOPTOSIS_VIA_CD40_UP
HOPP_Strong_enhancer
- L ■ LaPointe_mucosa-position_kmeans_E_transverse_colon_U
Chaussabel_3,8_Enzymes
natural killer cells peripheral blood_4_Tx
- M ■ MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP
8_EnhP_Fibroblasts
EnhP_Colon



SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
 HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
 LENZ_Stromal signature 1

Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_DN
 WIRTH_EBV B-cells
 ScoV_0.999_Sturm_E4_Mesenchymal_RTK I 'PDGFRA'_DN

Sha_DLBCL UP
 Victora_Light zone signature
 BASSO_CD40_SIGNALING_UP

Fetal_TssA
 Tcells peripheral blood_11_BivFlnk
 WIRTH_post GC B-cells

TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_UP
 TARTE_Plasma cell signature
 PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_UP

WILLSCHER_GBM_Verhaak-PNwt & CL_up
 Chaussabel_2,9_Cytoskeleton
 SENESE_HDAC1_TARGETS_UP

WILLSCHER_GBM_Verhaak-CL_up (C)
 Gerber_wt/wt_melanoma-cells-SpotA
 KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP

HUMMEL_BURKITT'S_LYMPHOMA_UP
 Victora_Dark zone signature
 Sha_BL UP

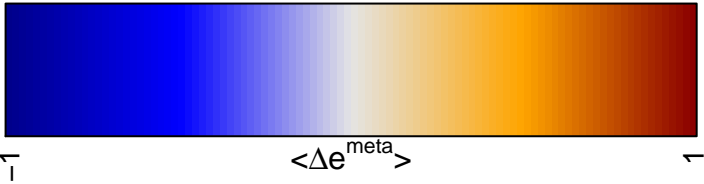
PUJANA_BRCA2_PCC_NETWORK
 HOPP_Txn_elongation
 Bcells peripheral blood_1_TssA

Bcells peripheral blood_1_TssA
 4_Tx_ESC_Mesoderm
 Tcells peripheral blood_4_Tx

SPANG_CD40 6hrs UP
 HOLLMANN_APOPTOSIS_VIA_CD40_UP
 HOPP_Strong_enhancer

LaPointe_mucosa-position_kmeans_E_transverse colon_UP_transverse col
 Chaussabel_3,8_Enzymes
 natural killer cells peripheral blood_4_Tx

MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP
 8_EnhP_Fibroblasts
 EnhP_Colon



D-Cluster

Spot Summary: A

metagenes = 5
genes = 80

<r> metagenes = 0.99

<r> genes = 0.44

beta: r2= 14.45 / log p= -Inf

samples with spot = 42 (19 %)

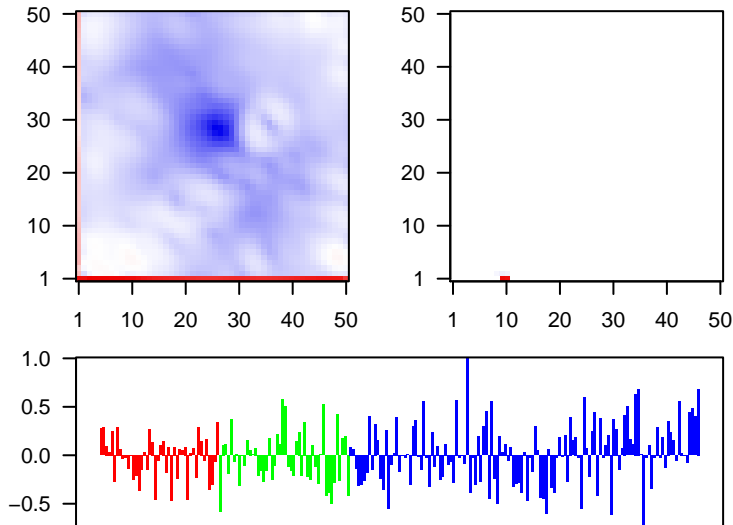
mBL : 6 (13.6 %)

intermediate : 6 (12.5 %)

non-mBL : 30 (23.3 %)

Overview Map

Spot

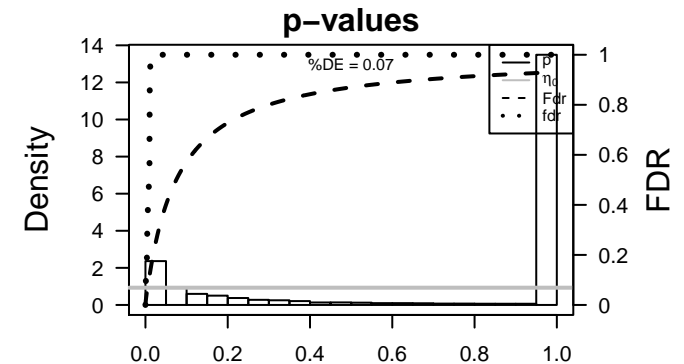


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	202718_at	2.31	-1.6	0.57	IGFBP2 insulin like growth factor binding protein 2 [Source:HGNC Syr
2	209621_s_at	1.92	-1.24	0.52	PDLIM3 PDZ and LIM domain 3 [Source:HGNC Symbol;Acc:HGNC:2l
3	201325_s_at	1.82	-1.23	0.72	EMP1 epithelial membrane protein 1 [Source:HGNC Symbol;Acc:HC
4	212488_at	1.77	-1.28	0.79	COL5A1 collagen type V alpha 1 chain [Source:HGNC Symbol;Acc:HC
5	204051_s_at	1.71	-1.02	0.4	SFRP4 secreted frizzled related protein 4 [Source:HGNC Symbol;Acc
6	209189_at	1.69	-1.6	0.44	FOS Fos proto-oncogene, AP-1 transcription factor subunit [Sour
7	217430_x_at	1.69	-1.01	0.75	COL1A1 collagen type I alpha 1 chain [Source:HGNC Symbol;Acc:HGI
8	213869_x_at	1.67	-1.02	0.67	THY1 Thy-1 cell surface antigen [Source:HGNC Symbol;Acc:HGNC
9	212489_at	1.59	-1.39	0.81	COL5A1 collagen type V alpha 1 chain [Source:HGNC Symbol;Acc:HC
10	203325_s_at	1.57	-1.2	0.77	COL5A1 collagen type V alpha 1 chain [Source:HGNC Symbol;Acc:HC
11	205713_s_at	1.55	-1	0.4	COMP cartilage oligomeric matrix protein [Source:HGNC Symbol;Ac
12	215446_s_at	1.55	-0.98	0.72	LOX lysyl oxidase [Source:HGNC Symbol;Acc:HGNC:6664]
13	203886_s_at	1.54	-1.37	0.65	FBLN2 fibulin 2 [Source:HGNC Symbol;Acc:HGNC:3601]
14	213004_at	1.54	-0.78	0.72	ANGPTL2angiopoietin like 2 [Source:HGNC Symbol;Acc:HGNC:490]
15	212154_at	1.49	-1.07	0.58	SDC2 syndecan 2 [Source:HGNC Symbol;Acc:HGNC:10659]
16	208850_s_at	1.49	-1.28	0.73	THY1 Thy-1 cell surface antigen [Source:HGNC Symbol;Acc:HGNC
17	217369_at	1.47	-1.05	0.68	
18	201324_at	1.47	-1.08	0.76	EMP1 epithelial membrane protein 1 [Source:HGNC Symbol;Acc:HC
19	202310_s_at	1.45	-2.36	0.89	COL1A1 collagen type I alpha 1 chain [Source:HGNC Symbol;Acc:HGI
20	210809_s_at	1.41	-2.02	0.77	POSTN periostin [Source:HGNC Symbol;Acc:HGNC:16953]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-43	37 / 335	GSE/ SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
2	3e-37	29 / 196	HM HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
3	3e-34	28 / 214	LympL LENZ_Stromal signature 1
4	8e-32	26 / 197	GSE/ NABA_CORE_MATRISOME
5	1e-27	24 / 212	CC extracellular matrix
6	2e-27	23 / 183	BP extracellular matrix organization
7	2e-27	21 / 132	Colon Marisa_CRC-cluster-a
8	2e-26	17 / 63	GSE/ ANASTASSIOU_CANCER_MESENCHYMAL_TRANSITION_SIGNATURE
9	1e-25	24 / 253	CC proteinaceous extracellular matrix
10	6e-24	32 / 747	GSE/ NABA_MATRISOME
11	7e-24	27 / 443	GSE/ CHICAS_RB1_TARGETS_CONFLUENT
12	1e-23	35 / 1001	Color LaPointe_mucosa-position_kmeans_H_cecum colon_ascending colon_UP
13	6e-23	20 / 176	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
14	9e-22	18 / 138	GSE/ IGLESIAS_E2F_TARGETS_UP
15	1e-21	14 / 53	MF extracellular matrix structural constituent
16	5e-21	24 / 397	GSE/ REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
17	5e-21	15 / 77	GSE/ KEGG_ECM_RECEPTOR_INTERACTION
18	1e-20	27 / 589	GSE/ WONG_ADULT_TISSUE_STEM_MODULE
19	4e-20	17 / 138	GSE/ VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP
20	1e-19	16 / 117	GSE/ ZHU_CMV_ALL_DN
21	3e-19	11 / 29	GSE/ ROZANOV_MMP14_TARGETS_SUBSET
22	4e-19	22 / 366	GSE/ LIM_MAMMARY_STEM_CELL_UP
23	5e-19	0 / 14	CancL LIU_PROSTATE_CANCER_DN
24	5e-19	0 / 14	CancL LIU_PROSTATE_CANCER_DN
25	5e-19	13 / 59	GSE/ PID_INTEGRIN1_PATHWAY
26	6e-19	32 / 1090	CC extracellular space
27	2e-18	14 / 86	GSE/ ZHU_CMV_24_HR_DN
28	2e-18	13 / 66	CC basement membrane
29	2e-17	13 / 78	MelaL Tirosh_CAF-cell specific genes
30	3e-17	12 / 58	GSE/ TURASHVIL_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_NORMA
31	4e-17	18 / 249	GSE/ ONDER_CDH1_TARGETS_2_UP
32	4e-17	12 / 60	GSE/ TURASHVIL_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_NORM
33	1e-16	10 / 31	GSE/ NABA_BASEMENT_MEMBRANES
34	1e-16	10 / 32	GSE/ NABA_COLLAGENS
35	6e-16	17 / 241	CC endoplasmic reticulum lumen
36	7e-16	34 / 1611	CC extracellular region
37	1e-15	16 / 207	GSE/ ROZANOV_MMP14_TARGETS_UP
38	1e-15	11 / 56	GSE/ VERRECCHIA_EARLY_RESPONSE_TO_TGFB1
39	1e-15	14 / 136	GSE/ NABA_ECM_GLYCOPROTEINS
40	2e-15	17 / 262	GSE/ PASINI_SUZ12_TARGETS_DN



Rank	p-value	#in/all	Geneset
1	0.2	1 / 21	TESCHENDORFF_age_hypermethylated
2	0.4	1 / 107	HORVATH_aging_genes_meth UP
3	1.0	0 / 92	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	

BP Rank	p-value	#in/all	Geneset
1	2e-27	23 / 183	extracellular matrix organization
2	1e-13	10 / 53	collagen catabolic process
3	8e-11	17 / 500	cell adhesion
4	7e-08	7 / 78	wound healing
5	9e-08	6 / 48	blood vessel development
6	1e-07	4 / 11	protein heterotrimerization
7	2e-07	8 / 130	skeletal system development
8	5e-07	6 / 64	response to mechanical stimulus
9	6e-07	5 / 35	collagen fibril organization
10	1e-06	5 / 42	cellular response to amino acid stimulus
11	2e-06	8 / 185	cellular protein metabolic process
12	5e-06	4 / 25	endothelial cell differentiation
13	8e-06	7 / 157	positive regulation of cell migration
14	9e-06	8 / 223	angiogenesis
15	1e-05	7 / 169	cell migration

Cancer Rank	p-value	#in/all	Geneset
1	5e-19	0 / 14	LIU_PROSTATE_CANCER_DN
2	4e-09	15 / 480	Lembcke_ColonInflammation
3	3e-05	7 / 187	PanCan_P13K_geneseq_nanostring
4	3e-02	1 / 15	RHODES_CANCER_META_SIGNATURE
5	7e-02	1 / 15	RHODES_UNDIFFERENTIATED_CANCER
6	7e-02	1 / 16	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN
7	7e-02	1 / 16	GENTLE3_modul16
8	8e-02	1 / 18	PanCan_Notch_geneseq_nanostring
9	2e-01	2 / 147	PanCan_MAPK_geneseq_nanostring
10	2e-01	1 / 47	PanCan_TGF-B_geneseq_nanostring
11	3e-01	1 / 72	PanCan_Wnt_geneseq_nanostring
12	3e-01	0 / 11	LIU_PROSTATE_CANCER_UP
13	4e-01	1 / 96	PanCan_TXmisReg_geneseq_nanostring
14	5e-01	1 / 134	PanCan_RAS_geneseq_nanostring
15	1e+00	0 / 14	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP

CC Rank	p-value	#in/all	Geneset
1	1e-27	24 / 212	extracellular matrix
2	1e-25	24 / 253	proteinaceous extracellular matrix
3	6e-19	24 / 190	extracellular space
4	2e-18	13 / 66	basement membrane
5	6e-16	17 / 241	endoplasmic reticulum lumen
6	7e-16	34 / 1611	extracellular region
7	7e-15	11 / 65	collagen trimer
8	7e-11	10 / 2239	extracellular exosome
9	5e-05	10 / 462	cell surface
10	7e-05	4 / 47	extracellular vesicle
11	2e-04	8 / 345	focal adhesion
12	2e-04	3 / 25	filamentous actin
13	7e-04	3 / 15	lysosomal lumen
14	1e-03	2 / 12	platelet alpha granule membrane
15	2e-03	2 / 14	basal lamina

Chr Rank	p-value	#in/all	Geneset
1	0.006	8 / 585	Chr 7
2	0.028	3 / 139	Chr 21
3	0.105	3 / 103	Chr 2
4	0.188	4 / 480	Chr 4
5	0.262	4 / 654	Chr 5
6	0.352	5 / 832	Chr 2
7	0.407	4 / 689	Chr 3
8	0.409	3 / 403	Chr 9
9	0.419	4 / 700	Chr 12
10	0.466	2 / 333	Chr 22
11	0.539	2 / 382	Chr 15
12	0.613	2 / 437	Chr 8
13	0.697	3 / 378	Chr 11
14	0.714	3 / 178	Chr 17
15	0.735	2 / 548	Chr 16

Chromatin states Rank	p-value	#in/all	Geneset
1	1e-19	44 / 2405	Bcells_peripheral_blood_13_ReprPC
2	3e-19	46 / 2765	Regulatory_cells_peripheral_blood_13_ReprPC
3	1e-19	51 / 3724	Tcells_peripheral_blood_12_EnhBiv
4	7e-18	43 / 2515	natural_killer_cells_peripheral_blood_13_ReprPC
5	8e-18	47 / 3150	monocytes_peripheral_blood_13_ReprPC
6	1e-17	50 / 3734	Tcells_peripheral_blood_13_ReprPC
7	2e-17	41 / 2300	Thelper_cells_peripheral_blood_13_ReprPC
8	3e-17	43 / 2602	natural_killer_cells_peripheral_blood_12_EnhBiv
9	9e-17	45 / 3001	Bcells_peripheral_blood_14_ReprPCWk
10	1e-16	50 / 3918	Tcells_peripheral_blood_14_ReprPCWk
11	2e-16	35 / 1660	T_CD8+_naive_cells_peripheral_blood_12_EnhBiv
12	3e-16	39 / 2194	Thelper_cells_peripheral_blood_12_EnhBiv
13	3e-15	45 / 3272	monocytes_peripheral_blood_14_ReprPCWk
14	5e-15	43 / 2984	natural_killer_cells_peripheral_blood_14_ReprPCWk
15	3e-14	33 / 1694	Thelper_cells_peripheral_blood_11_BivFlnk

Colon Cancer Rank	p-value	#in/all	Geneset
1	2e-27	21 / 132	Marisa_CRC-cluster-a
2	1e-23	35 / 1001	LaPointe_mucosa-positions_kmeans_H_cecum_colon_ascending_colon_UP_1
3	8e-09	12 / 288	Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
4	1e-07	11 / 297	Pentrack_CRC_TCGA_group_over_B_msi-h_UP
5	1e-04	8 / 31	Lembcke_TCGA_meth_kmeans_E_CIMP_H_UP_1
6	1e-04	5 / 103	Marisa_CRC-cluster-b
7	2e-04	8 / 349	Lembcke_TCGA_meth_kmeans_F_CIMP_H_UP_2
8	4e-04	4 / 77	Ang_CRC-CIMPf-vs-L_hyper
9	4e-04	4 / 72	Ang_CRC_Hypermethylated
10	6e-04	2 / 18	Marisa_CRC-C3
11	4e-03	8 / 539	Lembcke_TCGA_meth_kmeans_L_CIMP_H_DN
12	4e-03	5 / 221	Lembcke_TCGA_meth_kmeans_A_Cluster4_DN
13	9e-03	1 / 2	Budinska_A_Surface_crypt-like_DOWN
14	1e-02	5 / 278	Lembcke_TCGA_meth_kmeans_H_CIMP_L_UP_CIMP_H_DN
15	2e-02	1 / 5	Kaneda_CIMP-group1

Glioma Rank	p-value	#in/all	Geneset
1	6e-15	16 / 231	WillScher_GBM_Verhaak-CL & MES_up
2	2e-13	11 / 85	Scov_0_999_Sturm_ED_IDH_DN
3	1e-07	7 / 82	laiffaire_hypermeth_LGG_vs_control
4	2e-07	8 / 132	Christensen_hypermethylated_in_grade3_oligoastrocytoma
5	3e-07	8 / 242	Christensen_hypermethylated_in_grade2_oligodendroglioma
6	4e-07	10 / 269	Scov_0_5_Sturm_C3_Mesenchymal_DN
7	9e-07	7 / 112	Christensen_hypermethylated_in_grade3_astrocytoma
8	1e-06	7 / 114	Christensen_hypermethylated_in_grade2_oligoastrocytoma
9	7e-06	6 / 100	WillScher_GBM_proteomics_wtOnly_SpotB
10	3e-07	5 / 64	cultured_astroglia_vs_in_vivo_astrocytes
11	1e-04	3 / 21	KIM_deleted & downregulated_in_LTS
12	3e-04	4 / 66	Christensen_hypermethylated_in_grade2_astrocytoma
13	4e-04	3 / 30	KIM_prognostic_signature_LTS_vs_STS
14	6e-04	3 / 35	Colman_survival_associated
15	9e-04	3 / 41	Gorovets_LGG_PO_subclass

GSEA C2 Rank	p-value	#in/all	Geneset
1	1e-43	37 / 335	SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
2	8e-37	26 / 197	NABA_CORE_MATRISOME
3	2e-26	17 / 63	ANASTASSIOU_CANCER_MESENCHYMAL_TRANSITION_SIGNATURE
4	6e-24	32 / 747	NABA_MATRISOME
5	6e-24	27 / 443	CHICAS_R81_TARGETS_CONFLUENT
6	6e-23	20 / 176	PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
7	9e-22	18 / 138	IGLESIAS_E2F_TARGETS_UP
8	5e-21	24 / 397	REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
9	5e-21	15 / 77	KEGG_EC6_RECEPTOR_INTERACTION
10	1e-20	22 / 589	WONG_ADULT_TISSUE_STEM_MODULE
11	4e-20	17 / 138	VECCHI_GALLIC_CANCER_ADVANCED_VS_EARLY_UP
12	1e-19	16 / 117	ZHU_CMV_ALL_DN
13	3e-19	11 / 29	ROZANOV_MMPI4_TARGETS_SUBSET
14	4e-19	22 / 366	LIM_MAMMARY_STEM_CELL_UP
15	5e-19	0 / 14	LIU_PROSTATE_CANCER_DN

LM Rank	p-value	#in/all	Geneset
1	3e-37	23 / 196	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
2	3e-06	8 / 188	HALLMARK_HYPOXIA
3	4e-06	7 / 141	HALLMARK_UV_RESPONSE_DN
4	2e-05	4 / 34	HALLMARK_ANGIOGENESIS
5	3e-05	7 / 194	HALLMARK_MYOGENESIS
6	5e-05	5 / 130	HALLMARK_COAGULATION
7	5e-03	4 / 150	HALLMARK_APOPTOSIS
8	9e-03	4 / 174	HALLMARK_ADIPOGENESIS
9	3e-02	2 / 59	HALLMARK_CHOLESTEROL_HOMEOSTASIS
10	3e-02	3 / 149	HALLMARK_UV_RESPONSE_UP
11	3e-02	3 / 192	HALLMARK_GLYCOLYSIS
12	6e-02	3 / 191	HALLMARK_P53_PATHWAY
13	6e-02	3 / 193	HALLMARK_ESTROGEN_RESPONSE_LATE
14	1e-01	1 / 29	HALLMARK_NOTCH_SIGNALING
15	1e-01	1 / 34	HALLMARK_APICAL_SURFACE

Immunome Rank	p-value	#in/all	Geneset
1	0.004	2 / 21	Angelova_immune-metagenic-central_memory_CD4
2	0.103	2 / 23	Angelova_immune-metagenic-Th2
3	0.111	1 / 25	Angelova_immune-metagenic-DC
4	0.164	1 / 38	Angelova_immune-metagenic-mast-cells
5	0.180	1 / 42	Angelova_immune-metagenic-TGD
6	0.013	0 / 13	Angelova_immune-metagenic-activated_B-cells
7	1.000	0 / 26	Angelova_immune-metagenic-activated_CD4
8	1.000	0 / 19	Angelova_immune-metagenic-activated_CD8
9	1.000	0 / 17	Angelova_immune-metagenic-central_memory_CD8
10	1.000	0 / 7	Angelova_immune-metagenic-cytotoxic_cells
11	0.012	0 / 12	Angelova_immune-metagenic-effector_memory_CD4
12	0.032	0 / 32	Angelova_immune-metagenic-effector_memory_CD8
13	1.000	0 / 14	Angelova_immune-metagenic-eosinophil
14	1.000	0 / 19	Angelova_immune-metagenic-IDC
15	1.000	0 / 13	Angelova_immune-metagenic-immature_B-cells

Lifestyle Rank	p-value	#in/all	Geneset
1	0.06	1 / 14	Huan_mood-pressure_SBP-signature
2	0.14	1 / 32	Marjolein_ageing-genes_DN
3	0.63	1 / 210	Hornuth_BMI-associated-genes_DN
4	1.00	0 / 62	DUMEAUX_Smoking_enriched_genes
5	1.00	0 / 10	DUMEAUX_Smoking_literature_genes_up
6	1.00	0 / 11	DUMEAUX_Exercising_non_smoker_literature_enriched_genes
7	1.00	0 / 5	DUMEAUX_Estrogen_related_in_smokers_literature_genes_up
8	1.00	0 / 7	DUMEAUX_Estrogen_related_in_nonsmokers_literature_genes_up
9	1.00	0 / 7	DUMEAUX_Hormon_therapy_in_nonsmokers_literature_genes_up
10	1.00	0 / 9	DUMEAUX_Monocytes_in_smokers_literature_genes_up
11	1.00	0 / 0	DUMEAUX_Red_blood_cells_in_nonsmokers_literature_genes_up
12	1.00	0 / 12	DUMEAUX_Women_normal_BMI_literature_genes_up
13	1.00	0 / 22	DUMEAUX_High_bmi_enriched_genes
14	1.00	0 / 22	DUMEAUX_Fasting_enriched_genes
15	1.00	0 / 150	Hornuth_BMI-associated-genes_UP

Lymphoma Rank	p-value	#in/all	Geneset
1	3e-34	28 / 214	LENZ_Stromal_signature_1
2	3e-13	12 / 121	ROSLOVSKI_green_total
3	2e-10	30 / 1894	HOPP_Poised_promoter
4	2e-09	37 / 3168	HOPP_Repressed
5	7e-08	8 / 118	Subero_INT_hyper_meth
6	2e-07	6 / 54	Hopp_Lymphoma_Epi1_no_zentr_1_B.cell_DN
7	3e-06	7 / 132	Subero_DLbcl_hyper_meth
8	3e-05	6 / 170	Hopp_Lymphoma_Epi1_with_zentr_v_B.cell_DN
9	2e-05	5 / 70	Hopp_Lymphoma_Epi1_no_zentr_3_B.cell_DN
10	1e-04	4 / 53	LENZ_Stromal_signature_2
11	9e-04	4 / 91	Subero_T-ALL_hyper_meth
12	2e-03	7 / 378	TARTE_Mature_plasma_cell_signature
13	2e-03	3 / 56	Hopp_Lymphoma_Epi1_hyper_meth
14	4e-03	3 / 66	Hopp_Lymphoma_Epi1_with_zentr_1_B.cell_DN
15	4e-03	3 / 70	Subero_FL_hyper_meth

Melanoma Rank	p-value	#in/all	Geneset
1	2e-17	13 / 78	Tirosh_CAF-cell_specific_genes
2	3e-06	12 / 497	Gerber_wtwt_melanoma-cells-SpotD
3	7e-04	3 / 37	Hugo_melanoma-all-MET_DN
4	5e-03	3 / 75	Tirosh_Endothelial-cell_specific_genes-melanoma
5	7e-03	3 / 85	Tirosh_AXL-signature
6	2e-02	2 / 41	Tirosh_top50_correlated_genes_PC3
7	5e-02	3 / 17	Landsberg_dedifferentiation_up
8	9e-02	0 / 230	Gerber_wtwt_melanoma-cells-SpotC
9	1e-01	3 / 236	Gerber_wtwt_group3-specific
10	2e-01	2 / 185	Tirosh_genes_from_malignant_cells_in_Mel179-melanoma
11	2e-01	2 / 204	Landsberg_dedifferentiation_down
12	3e-01	1 / 81	Tirosh_Genes_in_the_MITF_program
13	6e-01	1 / 189	Tirosh_genes_preferentially_expressed_by_Tregs
14	1e+00	0 / 17	Hugo_melanoma-all-MET_UP
15	1e+00	0 / 38	Hugo_melanoma-BRAFmut-MET_UP

MF Rank	p-value	#in/all	Geneset
1	1e-21	14 / 53	extracellular_matrix_structural_constituent
2	1e-14	7 / 11	platelet-derived_growth_factor_binding
3	1e-09	6 / 24	extracellular_matrix_binding
4	1e-08	15 / 517	calcium_ion_binding
5	2e-06	4 / 19	fibronectin_binding
6	1e-05	6 / 106	integrin_binding
7	2e-05	3 / 12	insulin-like_growth_factor_1_binding
8	2e-05	3 / 12	proteoglycan_binding
9	3e-05	6 / 126	heparin_binding
10	7e-05	5 / 93	protease_binding
11	1e-04	3 / 20	insulin-like_growth_factor_binding
12	1e-04	51 / 7864	protein_binding
13	7e-04	3 / 17	growth_factor_binding
14	2e-03	2 / 13	metallopeptidase_inhibitor_activity
15	2e-03	3 / 52	collagen_binding

mikNA target Rank	p-value	#in/all	Geneset
1	3e-05	6 / 129	hsa-miR-29a
2	4e-05	6 / 135	hsa-miR-29c
3	1e-04	6 / 166	hsa-miR-29b
4	3e-04	5 / 216	hsa-miR-524-5p
5	5e-03	5 / 235	hsa-let-7f
6	5e-03	4 / 151	hsa-miR-1283
7	6e-03	3 / 78	hsa-miR-219-2-3p
8	7e-03	5 / 257	hsa-let-7f
9	8e-03	5 / 262	hsa-miR-32
10	1e-02	5 / 278	hsa-let-7d
11	1e-02	3 / 103	hsa-miR-576-3p
12	2e-02	2 / 45	hsa-miR-487a
13	2e-02	2 / 47	hsa-miR-1279
14	2e-02	2 / 49	hsa-miR-550
15	3e-02	3 / 135	hsa-miR-548g

Pneumonia Rank	p-value	#in/all	Geneset
1	0.4	1 / 122	Terre_IMS_influenza_meta_signature
2	0.5	1 / 135	Terre_MSV_multiple_respiratory_viruses_up
3	0.6	1 / 179	Terre_MSV_multiple_respiratory_viruses_dn
4	1.0	0 / 0	Burnham_sep_vs_con_UP
5	1.0	0 / 56	Burnham_sep_vs_con_DN
6	1.0	0 / 48	Burnham_cap_fp_vs_con_DN
7	1.0	0 / 71	Burnham_cap_fp_vs_con_UP
8	1.0	0 / 48	Burnham_viral_DN
9	1.0	0 / 57	Burnham_viral_UP
10	1.0	0 / 57	Burnham_day1_vs_5_UP
11	1.0	0 / 52	Burnham_day1_vs_5_DN
12</			

D-Cluster

Spot Summary: B

metagenes = 8
genes = 211

<r> metagenes = 0.99

<r> genes = 0.46

beta: r2= 26.09 / log p= -Inf

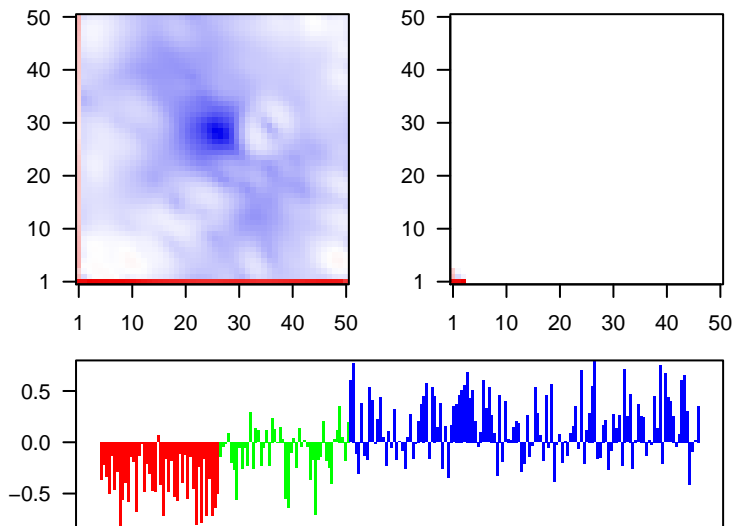
samples with spot = 54 (24.4 %)

intermediate : 2 (4.2 %)

non-mBL : 52 (40.3 %)

Overview Map

Spot

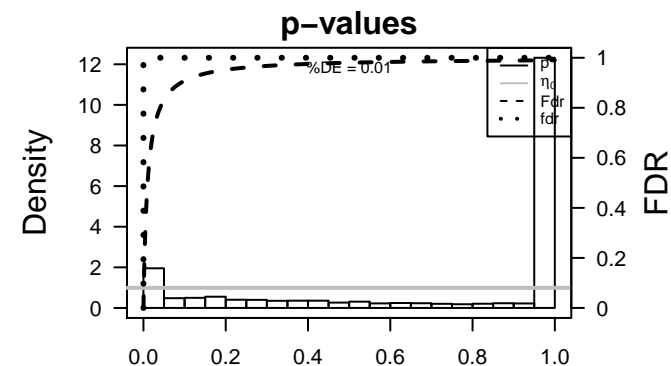


Spot Genelist

Rank	ID	max e	r	min e	Description
1	211644_x_at	2.59	-1.77	0.34	immunoglobulin kappa variable 3-20 [Source:HGNC Symbol;
2	214551_s_at	2.53	-1.11	0.7	CD7 CD7 molecule [Source:HGNC Symbol;Acc:HGNC:1695]
3	208451_s_at	2.38	-1.57	0.63	C4A complement C4A (Rodgers blood group) [Source:HGNC Sym
4	203535_at	2.34	-1.86	0.6	S100A9 S100 calcium binding protein A9 [Source:HGNC Symbol;Acc:
5	217022_s_at	2.33	-2.54	0.45	immunoglobulin heavy constant alpha 2 (A2m marker) [Sourc
6	205819_at	2.09	-0.95	0.55	MARCO macrophage receptor with collagenous structure [Source:HGI
7	202833_s_at	2.04	-2.04	0.8	SERPINA5 Serpin family A member 1 [Source:HGNC Symbol;Acc:HGNC
8	212062_at	1.97	-1.07	0.51	ATP9A ATPase phospholipid transporting 9A (putative) [Source:HGN
9	202917_s_at	1.96	-1.75	0.63	S100A8 S100 calcium binding protein A8 [Source:HGNC Symbol;Acc:
10	214049_x_at	1.96	-1.08	0.66	CD7 CD7 molecule [Source:HGNC Symbol;Acc:HGNC:1695]
11	210116_at	1.95	-1.66	0.65	SH2D1A SH2 domain containing 1A [Source:HGNC Symbol;Acc:HGNC
12	207979_s_at	1.93	-1.42	0.57	CD8B CD8b molecule [Source:HGNC Symbol;Acc:HGNC:1707]
13	204787_at	1.89	-1.35	0.55	VSIG4 V-set and immunoglobulin domain containing 4 [Source:HGN
14	204006_s_at	1.87	-1.43	0.58	FCGR3A Fc fragment of IgG receptor IIIa [Source:HGNC Symbol;Acc:G
15	205403_at	1.87	-1.01	0.51	IL1R2 interleukin 1 receptor type 2 [Source:HGNC Symbol;Acc:HGNC
16	206974_at	1.84	-1.08	0.76	CXCR6 C-X-C motif chemokine receptor 6 [Source:HGNC Symbol;A
17	206486_at	1.79	-1.26	0.68	LAG3 lymphocyte activating 3 [Source:HGNC Symbol;Acc:HGNC:6
18	206461_x_at	1.76	-2.22	0.64	MT1H metallothionein 1H [Source:HGNC Symbol;Acc:HGNC:7400]
19	211469_s_at	1.74	-1.28	0.79	CXCR6 C-X-C motif chemokine receptor 6 [Source:HGNC Symbol;A
20	211210_x_at	1.72	-1.42	0.57	SH2D1A SH2 domain containing 1A [Source:HGNC Symbol;Acc:HGNC

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	7e-86	95 / 589	Colon Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_DN
2	2e-78	54 / 102	Refer WIRTH_EBV B-cells
3	4e-50	63 / 447	Gliom ScoV_0.999_Sturm_E4_Mesenchymal_RTKI_PDGFR_A_DN
4	1e-31	27 / 83	Melar TCGA_melanoma_immune_high
5	2e-28	41 / 354	GSEF FULCHER_INFLAMMATORY_RESPONSE_LLECTIN_VS_LPS_DN
6	2e-28	37 / 269	Gliom ScoV_0.5_Sturm_C3_Mesenchymal_DN
7	2e-27	36 / 265	GSEF WALLACE_PROSTATE_CANCER_RACE_UP
8	6e-27	23 / 71	Melar Tirosh_Macrophage_specific_genes-melanoma
9	3e-25	21 / 62	Lympf Monti_Host_response_cluster
10	3e-25	21 / 62	GSEF BROWNE_INTERFERON_RESPONSIVE_GENES
11	1e-24	30 / 194	GSEF JAATINEN_HEMATOPOIETIC_STEM_CELL_DN
12	5e-24	28 / 166	HM HALLMARK_INTERFERON_GAMMA_RESPONSE
13	5e-24	40 / 431	BP immune system process
14	3e-23	41 / 480	Cancr Lembcke_ColonInflammation
15	4e-23	22 / 87	GSEF BOSCO_TH1_CYTOTOXIC_MODULE
16	5e-23	22 / 88	GSEF WIELAND_UP_BY_HBV_INFECTION
17	9e-23	21 / 78	Melar Tirosh_expression_higher_in_CAFs_than_in_T-cells
18	9e-23	21 / 78	GSEF FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_UP
19	2e-22	16 / 33	Melar Tirosh_T-cell_specific_genes-melanoma
20	5e-22	27 / 176	HM HALLMARK_ALLOGRAFT_REJECTION
21	1e-21	34 / 336	BP immune response
22	1e-21	29 / 223	GSEF MCLACHLAN_DENTAL_CARIES_UP
23	4e-21	37 / 429	GSEF SMID_BREAST_CANCER_NORMAL_LIKE_UP
24	1e-20	35 / 386	GSEF RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP
25	2e-20	31 / 288	Color Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
26	3e-20	17 / 52	GSEF SANA_RESPONSE_TO_IFNG_UP
27	4e-20	32 / 323	BP inflammatory response
28	5e-20	28 / 231	Gliom WILLSCHER_GBM_Verhaak-CL & MES_up
29	1e-19	17 / 56	Pneui Burnham_sep_vs_con_DN
30	1e-18	28 / 261	GSEF POOLA_INVASIVE_BREAST_CANCER_UP
31	2e-18	26 / 219	GSEF MCLACHLAN_DENTAL_CARIES_DN
32	5e-18	17 / 68	Refer Chaussabel_2_1_Cytotoxic_cells
33	2e-17	36 / 516	GSEF SMID_BREAST_CANCER_LUMINAL_B_DN
34	1e-16	16 / 67	GSEF NAKAYAMA_SOFT_TISSUE_TUMORS_PCA1_UP
35	4e-16	27 / 297	GSEF RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_DN
36	7e-16	18 / 105	GSEF ICHIBA_GRAFT_VERSUS_HOST_DISEASE_35D_UP
37	1e-15	13 / 40	GSEF FARMER_BREAST_CANCER_CLUSTER_1
38	5e-15	26 / 299	GSEF DEURIG_T_CELL_PROLYMPHOCYTIC_LEUKEMIA_DN
39	6e-15	16 / 85	GSEF ICHIBA_GRAFT_VERSUS_HOST_DISEASE_D7_UP
40	7e-15	15 / 71	GSEF SANA_TNF_SIGNALING_UP



Aging Rank	p-value	#in/all	Geneset
1	0.4	1 / 47	TESCHENDORFF_age_hypermethylated
2	0.7	1 / 32	HORVATH_aging_genes_meth_DOWN
3	0.7	1 / 107	HORVATH_aging_genes_meth_UP
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	

CC Rank	p-value	#in/all	Geneset
1	8e-13	55 / 1611	extracellular region
2	9e-11	41 / 1090	extracellular space
3	7e-10	41 / 1090	T cell receptor complex
4	8e-10	16 / 179	external side of plasma membrane
5	3e-09	39 / 1128	integral component of plasma membrane
6	3e-08	73 / 3270	integral component of membrane
7	1e-06	6 / 29	immunological synapse
8	8e-06	63 / 74	secretory granule membrane
9	1e-05	63 / 3210	plasma membrane
10	2e-05	93 / 5339	membrane
11	1e-03	16 / 537	perinuclear region of cytoplasm
12	2e-03	7 / 146	cell-cell junction
13	3e-03	6 / 116	blood microparticle
14	5e-03	13 / 462	cell surface
15	7e-03	2 / 10	amyloid-beta complex

Colon Cancer Rank	p-value	#in/all	Geneset
1	7e-86	95 / 589	Lembcke_TCGA_expr_kmeans_E_CIMP_H_UP_Cluster4_DN
2	2e-20	31 / 288	Pentrack_CRC_TCGA_corr_j_msi-h_UP_mss_DN
3	3e-13	24 / 297	Pentrack_CRC_TCGA_group_over_B_msi-h_UP
4	7e-07	8 / 60	Marisa_CRC_cluster-g
5	9e-07	7 / 43	Marisa_CRC_cluster-f
6	4e-06	15 / 290	Lembcke_TCGA_meth_kmeans_O_CIMP_H_DN
7	1e-04	15 / 397	Pentrack_CRC_TCGA_corr_C_normal_UP
8	5e-04	3 / 13	Budinska_B_Lower_crypt-like_DOWN
9	8e-04	3 / 15	TCGA_CRC_less-aggressive-diseases-markers
10	9e-04	4 / 35	Ang_CRC_Hypomethylated
11	2e-03	35 / 1729	LaPointe_mucosa-position_kmeans_G_pecum_colon_ascending_colon_UP_t1
12	3e-03	2 / 7	Budinska_C_CIMP--a-like_UP
13	4e-03	5 / 82	Pentrack_CRC_TCGA_group_over_A_normal_UP
14	5e-03	2 / 9	Marisa_CRC-C2
15	6e-03	6 / 132	Marisa_CRC_cluster-a

HM Rank	p-value	#in/all	Geneset
1	5e-24	28 / 166	HALLMARK_INTERFERON_GAMMA_RESPONSE
2	5e-22	27 / 176	HALLMARK_ALLOGRAFT_REJECTION
3	2e-14	21 / 187	HALLMARK_INFILMATORY_RESPONSE
4	2e-09	11 / 76	HALLMARK_INTERFERON_ALPHA_RESPONSE
5	4e-07	13 / 178	HALLMARK_COMPLEMENT
6	1e-06	9 / 85	HALLMARK_IL6_JAK_STAT3_SIGNALING
7	9e-06	11 / 170	HALLMARK_IL2_STAT3_SIGNALING
8	3e-05	11 / 190	HALLMARK_TNFA_SIGNALING_VIA_NFKB
9	3e-03	7 / 150	HALLMARK_APOPTOSIS
10	3e-03	8 / 194	HALLMARK_KRAS_SIGNALING_UP
11	3e-03	3 / 13	HALLMARK_CALCIUM_REGULATION
12	2e-01	4 / 193	HALLMARK_ESTROGEN_RESPONSE_LATE
13	3e-01	3 / 139	HALLMARK_FATTY_ACID_METABOLISM
14	3e-01	3 / 149	HALLMARK_UV_RESPONSE_UP
15	3e-01	2 / 97	HALLMARK_BILE_ACID_METABOLISM

Lymphoma Rank	p-value	#in/all	Geneset
1	3e-25	21 / 62	Monti_Host_response_cluster
2	3e-14	9 / 15	Care_Polarized immune response
3	1e-13	11 / 33	Care_Extended T-cell
4	1e-06	9 / 85	Sha_DLCL2_UP
5	2e-06	5 / 18	DAVE_Immune response 2
6	3e-06	13 / 213	SPANG_IL21_DN
7	1e-05	6 / 41	RSOLOWSKI_blue_DOWN
8	2e-05	16 / 378	TARTE_Mature plasma cell signature
9	1e-03	6 / 97	RSOLOWSKI_red_total
10	4e-03	3 / 26	DAVE_Immune response 1
11	7e-03	6 / 135	DAVE_BL-vs-DLCL2
12	9e-03	5 / 102	RSOLOWSKI_blue_total
13	3e-02	2 / 22	DAVE_NFKB_BI
14	3e-02	9 / 353	SPANG_CD40_6hrs_DN
15	3e-02	3 / 57	SPANG_LPS_6hrs_DN

miRNA target Rank	p-value	#in/all	Geneset
1	0.02	2 / 18	hsa-miR-1228
2	0.02	2 / 18	hsa-miR-591
3	0.10	3 / 50	hsa-miR-394
4	0.14	2 / 44	hsa-miR-629
5	0.11	2 / 45	hsa-miR-891b
6	0.16	3 / 109	hsa-miR-485-5p
7	0.17	1 / 15	hsa-miR-598
8	0.19	1 / 17	hsa-miR-323-5p
9	0.20	1 / 18	hsa-miR-668
10	0.21	1 / 19	hsa-miR-596
11	0.22	3 / 128	hsa-miR-583
12	0.22	2 / 71	hsa-miR-188-3p
13	0.23	2 / 72	hsa-miR-149
14	0.23	2 / 72	hsa-miR-339-5p
15	0.24	2 / 74	hsa-miR-496

Telomeres Rank	p-value	#in/all	Geneset
1	0.3	1 / 27	Nabati_n_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	

BP Rank	p-value	#in/all	Geneset
1	5e-24	40 / 431	immune system process
2	1e-21	34 / 336	immune response
3	4e-20	32 / 323	inflammatory response
4	4e-14	17 / 113	regulation of immune response
5	1e-13	22 / 232	cell surface receptor signaling pathway
6	5e-13	17 / 131	chemotaxis
7	1e-12	18 / 161	adaptive immune response
8	4e-12	25 / 367	innate immune response
9	1e-11	12 / 63	chemokine-mediated signaling pathway
10	2e-09	44 / 1361	signal transduction
11	2e-08	8 / 39	T cell activation
12	2e-08	14 / 169	response to lipopolysaccharide
13	3e-08	13 / 146	defense response to virus
14	7e-08	11 / 104	response to virus
15	1e-07	8 / 49	positive regulation of T cell proliferation

Chr Rank	p-value	#in/all	Geneset
1	0.07	23 / 1325	Chr 1
2	0.16	10 / 554	Chr 5
3	0.20	6 / 319	Chr 20
4	0.38	11 / 776	Chr 17
5	0.39	6 / 403	Chr 14
6	0.39	7 / 480	Chr 4
7	0.40	3 / 184	Chr 18
8	0.45	8 / 585	Chr 7
9	0.51	9 / 700	Chr 12
10	0.53	7 / 548	Chr 16
11	0.60	10 / 832	Chr 2
12	0.60	4 / 333	Chr 22
13	0.64	8 / 689	Chr 3
14	0.72	9 / 833	Chr 19
15	0.74	8 / 756	Chr 11

Glioma Rank	p-value	#in/all	Geneset
1	4e-50	63 / 447	Scov_0.999_Sturm_E4_Mesenchymal_RTK1_PDGFR_A_DN
2	2e-28	37 / 269	Scov_0.5_Sturm_C3_Mesenchymal_DN
3	5e-20	28 / 231	WILLSCHEER_GBM_Verhaak-CL & MES_up
4	3e-11	13 / 63	Scov_0.999_Sturm_E3_RTK1_PDGFR_A_DN
5	1e-09	19 / 298	Scov_0.001_Sturm_M2_Mesenchymal_RTK1_PDGFR_A_DN
6	4e-09	9 / 45	Donson-innate immunity-associated with LTS in HGA
7	9e-09	17 / 242	Scov_0.5_Sturm_C1_IDH_DN
8	1e-08	6 / 14	Donson-chemokines/cytokines-associated with LTS in HGA
9	2e-07	45 / 1652	Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
10	0e-07	4 / 7	Donse-cytotoxic effectors-associated with LTS in HGA
11	2e-06	14 / 246	Scov_0.001_Sturm_M1_IDH_RTK1_PDGFR_A_DN
12	1e-05	4 / 12	Donson-immune cell intra signaling-associated with LTS in HGA
13	3e-05	7 / 71	Weller_LGG_tp19qDel-vs-intact_DOWN
14	7e-05	8 / 109	Hopp_Sturm_GBM_Epi3_D_adult_tetus_IDH_UP
15	3e-04	4 / 27	Donson-Misc immune function-associated with LTS in HGA

Immuno Rank	p-value	#in/all	Geneset
1	3e-11	12 / 67	Angelova Immune-metogene-T-cells
2	4e-09	8 / 32	Angelova Immune-metogene-effector_memory_CD8
3	3e-05	5 / 29	Angelova Immune-metogene-Th1
4	4e-05	3 / 6	Immunity Immune-checkpoint-inhibitors
5	2e-04	5 / 42	Angelova Immune-metogene-TGD
6	5e-04	5 / 45	Angelova Immune-metogene-MDSC
7	2e-03	7 / 19	Angelova Immune-metogene-IDC
8	3e-03	3 / 23	Angelova Immune-metogene-Treg
9	7e-03	2 / 10	Angelova_CRC_ImmunoInhibitors
10	1e-02	2 / 13	Angelova Immune-metogene-activated_B-cells
11	2e-02	2 / 25	Angelova Immune-metogene-DC
12	6e-02	1 / 5	Angelova Immune-metogene-NKT
13	8e-02	1 / 7	Angelova Immune-metogene-cytotoxic cells
14	1e-01	1 / 10	Angelova Immune-metogene-neutrophils
15	2e-01	1 / 15	Angelova Immune-metogene-NK

Melanoma Rank	p-value	#in/all	Geneset
1	1e-31	27 / 83	TCGA_melanoma Immune_high
2	6e-27	23 / 71	Tirosh_Macrophage specific genes-melanoma
3	9e-23	21 / 78	Tirosh_expression higher in CAFs than in T-cells
4	2e-22	16 / 33	Tirosh_T-cell specific genes-melanoma
5	4e-10	16 / 171	Landsberg_dedifferentiation_up
6	9e-09	12 / 107	Tirosh_Exhaustion program in Mel75
7	1e-07	14 / 189	Tirosh_genes preferentially expressed by Tregs
8	2e-05	8 / 205	Joensuu_Melanoma Proliferative subtype
9	2e-03	3 / 24	Tirosh_exhaustion-associated genes consistent across tumors
10	8e-03	8 / 230	Gerber_wt/wt_melanoma-cells-SpotC
11	3e-02	3 / 51	Tirosh_genes from CD8 T-cells in Mel79-melanoma
12	4e-02	2 / 24	Gerami_melanoma-metastatic-risk_DN
13	4e-02	6 / 204	Landsberg_dedifferentiation_down
14	7e-02	1 / 6	Joensuu_Melanoma high immune response subtype
15	8e-02	2 / 38	Hugo_melanoma-BRAFmut-MET_UP

Pneumonia Rank	p-value	#in/all	Geneset
1	1e-19	17 / 56	Burnham_sep_vs_con_DN
2	1e-14	13 / 48	Burnham_cap_fp_vs_con_DN
3	3e-10	14 / 122	Terre_ILMS_influenza_meta_signature
4	6e-09	9 / 62	Burnham_day1_vs_5_DN
5	6e-06	6 / 37	Sweeney_viral_up
6	7e-06	7 / 57	Burnham_viral_UP
7	3e-04	5 / 48	Burnham_viral_UP
8	2e-02	2 / 18	Scicluna_UP
9	3e-02	3 / 68	Burnham_sep_vs_con_UP
10	6e-02	3 / 71	Burnham_cap_fp_vs_con_UP
11	9e-02	4 / 135	Terre_MSV_multiple_respiratory_viruses_up
12	9e-02	2 / 57	Scicluna_DN
13	2e-01	2 / 41	Burnham_day1_vs_5_UP
14	3e-01	1 / 33	Sweeney_viral_dn
15	5e-01	1 / 54	Burnham_timecourse

TE Rank	p-value	#in/all	Geneset
1	0.003	24 / 1041	ICGC_P300_targets
2	0.024	37 / 2150	ICGC_Irf4_targets
3	0.027	59 / 3778	ICGC_Pol24_targets
4	0.032	51 / 3213	ICGC_Pu1_targets
5	0.046	53 / 3435	ICGC_Ebf1c137065_targets
6	0.055	28 / 1508	ICGC_Mef2_targets
7	0.079	27 / 1636	ICGC_Bcl11_targets
8	0.096	35 / 2254	ICGC_BatfPcr1_targets
9	0.100	59 / 4072	ICGC_Mta3_targets
10	0.173	29 / 1941	ICGC_Bcl3_targets
11	0.214	68 / 4851	ICGC_214_targets
12	0.222	52 / 3769	ICGC_Pmlsc71910_targets
13	0.299	32 / 2321	ICGC_Rad21_targets
14	0.302	51 / 3804	ICGC_Stat5_targets
15	0.317	21 / 1494	ICGC_Cebpocf50_targets

Cancer Rank	p-value	#in/all	Geneset
1	3e-23	41 / 480	Lembcke_Colonc Inflammation
2	1e-14	21 / 186	SPANG_LPS-index2
3	7e-11	7 / 13	GENTLES_modul18
4	2e-08	19 / 317	SPANG_BCL6-index2
5	7e-03	2 / 10	BENTINK_ras.4
6	7e-03	5 / 96	PanCan_TXmIsReg_geneset_nanostring
7	9e-03	2 / 12	HLA2_signature
8	1e-02	2 / 15	WANG_ER_UP
9	8e-02	3 / 80	PanCan_JAK-ST_geneset_nanostring
10	1e-01	1 / 9	WANG_ER_DN
11	1e-01	4 / 147	PanCan_MAPK_geneset_nanostring
12	2e-01	1 / 13	GENTLES_modul11
13	2e-01	1 / 14	BENTINK_src.10
14	2e-01	1 / 15	RHODES_UNDIFFERENTIATED_CANCER
15	3e-01	0 / 16	LIU_LIVER_CANCER

Chromatin states Rank	p-value	#in/all	Geneset
1	4e-09	28 / 626	natural killer cells peripheral blood_3_TxFnk
2	4e-09	23 / 432	monocytes peripheral blood_3_TxFnk
3	4e-09	29 / 632	Tcells peripheral blood_3_TxFnk
4	8e-06	55 / 2507	Mid_Frontal_Lobe_ReprCk
5	6e-05	29 / 1072	Mid_Frontal_Lobe_ReprPCWk
6	9e-05	15 / 383	K9acLow_Colon
7	1e-04	12 / 258	T CD8+ naive cells peripheral blood_3_TxFnk
8	3e-04	37 / 1676	Fetal_TXTrans
9	4e-04	19 / 642	helper cells peripheral blood_3_TxFnk
10	5e-04	23 / 867	Mid_Frontal_Lobe_Quies
11	4e-03	56 / 3223	monocytes peripheral blood_6_EnhG
12	7e-03	32 / 1639	Fetal_IssF
13	1e-02	13 / 497	Mid_Frontal_Lobe_TssF
14	3e-02	32 / 1833	H2_Enhiv_ESC_Endoderm
15	4e-02	49 / 3110	14_ReprPCWk_ESC_Endoderm

GSEA C2 Rank	p-value	#in/all	Geneset
1	2e-28	41 / 354	FULCHER_INFILMATORY_RESPONSE_LECTIN_VS_LPS_DN
2	2e-27	36 / 265	WALLACE_PROSTATE_CANCER_RACE_UP
3	3e-25	21 / 62	BROWNE_INTERFERON_RESPONSE_GENES
4	1e-24	30 / 194	JARINAH_HEMATOPOIETIC_STEM_CELL_DN
5	4e-23	22 / 87	BOSCO_TH1_CYTOTOXIC_MODULE
6	5e-23	22 / 88	WIELAND_UP_BY_HV_INFECTION
7	9e-23	21 / 78	FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_UP
8	1e-21	29 / 223	MCLACHLAN_DENTAL_CARIES_UP
9	4e-21	37 / 429	SMID_BREAST_CANCER_NORMAL_LIKE_UP
10	1e-20	36 / 186	RUTILLA_RESPONSE_TO_HGF_VS-CSF2RB_AND_IL4_UP
11	3e-20	17 / 52	SANA_RESPONSE_TO_IFNG_UP
12	1e-18	28 / 261	POOLA_INVASIVE_BREAST_CANCER_UP
13	2e-18	26 / 219	MCLACHLAN_DENTAL_CARIES_DN
14	2e-17	36 / 516	SMID_BREAST_CANCER_LUMINAL_B_DN
15	1e-16	16 / 67	NAKAYAMA_SOFT_TISSUE_TUMORS_PCA1_UP

Lifestyle Rank	p-value	#in/all	Geneset
1	1e-05	4 / 12	DUMEAUX

D-Cluster

Spot Summary: C

metagenes = 9
genes = 162

<r> metagenes = 0.99

<r> genes = 0.45

beta: r2= 21.65 / log p= -Inf

samples with spot = 70 (31.7 %)

non-mBL : 70 (54.3 %)

Spot Genelist

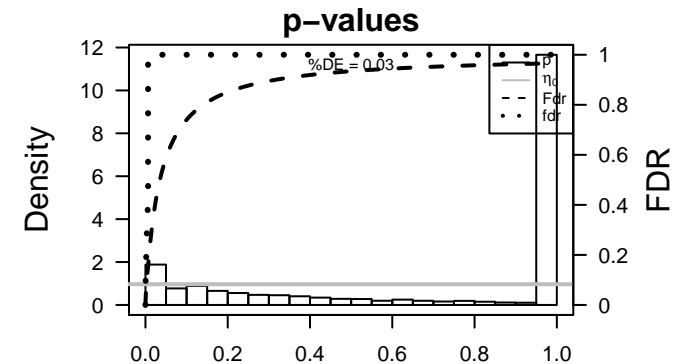
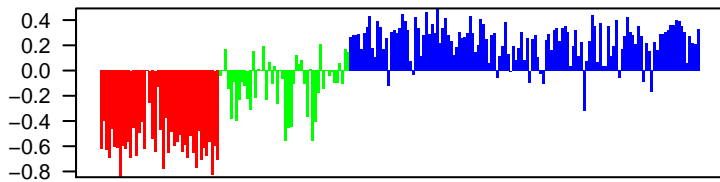
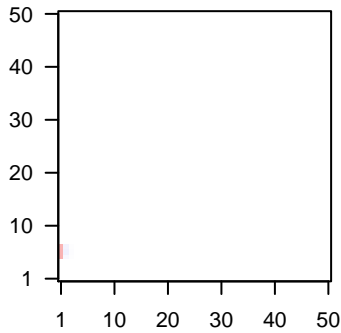
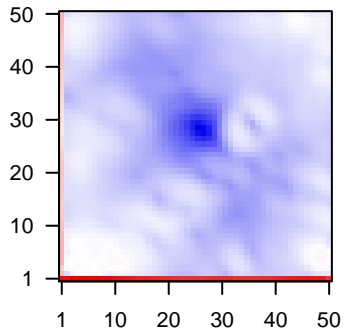
Rank	ID	max e	r	min e	Description
1	216615_s_at	2.49	-1.56	0.44	HTR3A 5-hydroxytryptamine receptor 3A [Source:HGNC Symbol;Acc:HGNC:10000]
2	207245_at	2.21	-1.2	0.48	UGT2B17UDP glucuronosyltransferase family 2 member B17 [Source:HGNC Symbol;Acc:HGNC:10000]
3	202274_at	1.93	-2	0.55	ACTG2 actin, gamma 2, smooth muscle, enteric [Source:HGNC Symbol;Acc:HGNC:10000]
4	210437_at	1.88	-1.26	0.43	MAGEA9MAGE family member A9B [Source:HGNC Symbol;Acc:HGNC:10000]
5	210916_s_at	1.78	-1.66	0.84	CD44 CD44 molecule (Indian blood group) [Source:HGNC Symbol;Acc:HGNC:10000]
6	219799_s_at	1.78	-1.76	0.65	DHRS9 dehydrogenase/reductase 9 [Source:HGNC Symbol;Acc:HGNC:10000]
7	207113_s_at	1.77	-1.49	0.66	TNF tumor necrosis factor [Source:HGNC Symbol;Acc:HGNC:118]
8	204489_s_at	1.76	-2.02	0.85	CD44 CD44 molecule (Indian blood group) [Source:HGNC Symbol;Acc:HGNC:10000]
9	203404_at	1.73	-1.41	0.48	ARMCX2armadillo repeat containing, X-linked 2 [Source:HGNC Symbol;Acc:HGNC:10000]
10	206337_at	1.72	-2.11	0.7	CCR7 C-C motif chemokine receptor 7 [Source:HGNC Symbol;Acc:HGNC:10000]
11	203562_at	1.7	-1.4	0.62	FEZ1 fasciculation and elongation protein zeta 1 [Source:HGNC Symbol;Acc:HGNC:10000]
12	222043_at	1.7	-1.38	0.56	CLU clusterin [Source:HGNC Symbol;Acc:HGNC:2095]
13	203835_at	1.7	-1.1	0.46	LRRC32 leucine rich repeat containing 32 [Source:HGNC Symbol;Acc:HGNC:10000]
14	217966_s_at	1.67	-0.98	0.53	FAM129Afamily with sequence similarity 129 member A [Source:HGNC Symbol;Acc:HGNC:10000]
15	219424_at	1.67	-2.01	0.84	EBI3 Epstein-Barr virus induced 3 [Source:HGNC Symbol;Acc:HGNC:10000]
16	220358_at	1.64	-1.04	0.64	BATF3 basic leucine zipper ATF-like transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:10000]
17	203642_s_at	1.63	-1.51	0.58	COBLL1 cordon-bleu WH2 repeat protein like 1 [Source:HGNC Symbol;Acc:HGNC:10000]
18	206975_at	1.59	-1.2	0.61	LTA lymphotoxin alpha [Source:HGNC Symbol;Acc:HGNC:6709]
19	823_at	1.58	-0.88	0.58	CX3CL1 C-X3-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:10000]
20	201464_x_at	1.54	-1.66	0.6	JUN Jun proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:10000]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-42	31 / 85	Lymp Sha_DLBC_LUP
2	2e-24	26 / 173	Lymp Victoria_Light zone signature
3	2e-22	20 / 90	GSE/ BASSO_CD40_SIGNALING_UP
4	2e-21	22 / 135	Lymp DAVE_BL-vs-DLBC_L
5	1e-20	11 / 14	GSE/ HUMMEL_BURKITT'S_LYMPHOMA_DN
6	9e-20	28 / 317	Canci SPANG_BCL6-index2
7	1e-19	23 / 186	Canci SPANG_LPS-index2
8	3e-18	23 / 213	Lymp SPANG_IL21_DN
9	9e-17	9 / 12	Lymp BENTINK_mBL_DOWN
10	2e-14	24 / 353	Lymp SPANG_CD40_6hrs_DN
11	4e-12	18 / 229	GSE/ QI_PLASMACYTOMA_UP
12	1e-11	88 / 5404	Lymp HOPP_Strong_enhancer
13	1e-11	8 / 22	Lymp DAVE_NFKB_BL_DN
14	2e-11	23 / 447	Gliom ScoV_0.999_Sturm_E4_Mesenchymal_RTK1_PDGFR_A_DN
15	8e-11	10 / 55	GSE/ DIRMEIER_LMP1_RESPONSE_EARLY
16	8e-11	10 / 55	GSE/ DIRMEIER_LMP1_RESPONSE_LATE_UP
17	1e-10	23 / 480	Canci Lembcke_Colonc_Inflammation
18	3e-10	15 / 190	HM HALLMARK_TNFA_SIGNALING_VIA_NFKB
19	1e-09	24 / 589	Color Lembcke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
20	6e-09	15 / 238	GSE/ RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_DN
21	7e-09	4 / 4	Lymp MASCQUE_mBL_DOWN
22	8e-09	17 / 321	GSE/ PHONG_TNF_RESPONSE_NOT_VIA_P38
23	2e-08	8 / 50	GSE/ LINDSTEDT_DENDRITIC_CELL_MATURATION_B
24	3e-08	15 / 269	Gliom ScoV_0.5_Sturm_C3_Mesenchymal_DN
25	5e-08	8 / 57	Lymp SPANG_LPS_6hrs_DN
26	1e-07	9 / 85	Lymp Aukema_BCL2_DN_BCL6_UP
27	1e-07	9 / 85	HM HALLMARK_IL6_JAK_STAT3_SIGNALING
28	1e-07	8 / 63	GSE/ BOYLAN_MULTIPLE_MYELOMA_D_DN
29	1e-07	9 / 88	Lymp ROSOLOWSKI_green_UP
30	1e-07	12 / 182	Refer WIRTH_post_GC_B-cells
31	2e-07	17 / 400	GSE/ DUTERTRE ESTRADIOL_RESPONSE_24HR_DN
32	2e-07	26 / 902	GSE/ CHEN_METABOLIC_SYNDROM_NETWORK
33	2e-07	26 / 906	Lymp SPANG_BCR_DN
34	4e-07	15 / 327	GSE/ RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_UP
35	6e-07	11 / 170	HM HALLMARK_IL2_STAT5_SIGNALING
36	7e-07	8 / 79	GSE/ LU_IL4_SIGNALING
37	8e-07	14 / 299	GSE/ DEURIG_T_CELL_PROLYMPHOCYTIC_LEUKEMIA_DN
38	9e-07	16 / 397	GSE/ REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
39	1e-06	7 / 57	GSE/ AMIT_SERUM_RESPONSE_60_MCF10A
40	1e-06	17 / 453	GSE/ FULCHER_INFLAMMATORY_RESPONSE_LECTIN_VS_LPS_UP

Overview Map

Spot



Rank	p-value	#in/all	Geneset
1	0.2	2 / 92	HORVATH_aging_genes_meth_DOWN
2	0.4	1 / 47	TESCHENDORFF_age_hypermethylated
3	0.6	1 / 107	HORVATH_aging_genes_meth_UP
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	

Rank	p-value	#in/all	Geneset
1	5e-06	53 / 3210	plasma membrane
2	3e-05	15 / 462	cell surface
3	1e-03	7 / 173	external side of plasma membrane
4	3e-03	5 / 104	trans-Golgi network
5	4e-03	50 / 3805	cytosol
6	5e-03	12 / 537	perinuclear region of cytoplasm
7	5e-03	4 / 74	secretory granule membrane
8	5e-03	1 / 12	apical dendrite
9	1e-02	63 / 5339	membrane
10	1e-02	2 / 18	phagocytic cup
11	1e-02	1 / 2	vacuole
12	2e-02	7 / 277	neuron projection
13	2e-02	7 / 281	lysosome
14	2e-02	56 / 4701	cytoplasm
15	3e-02	11 / 604	intracellular membrane-bounded organelle

Rank	p-value	#in/all	Geneset
1	1e-09	24 / 589	Lembcke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
2	1e-04	22 / 1001	LaPointe_mucosa-position_kmeans_H_ Cecum_colon_ascending_colon_UP_
3	4e-04	10 / 288	Pentrack_CRC_TCGA_corr_j_msi-h_UP_rmsc_DN
4	2e-03	17 / 848	LaPointe_mucosa-position_kmeans_O_transverse_colon_UP_
5	4e-03	8 / 297	Pentrack_CRC_TCGA_corr_C_normal_UP
6	7e-03	8 / 297	Pentrack_CRC_TCGA_group_over_B_msi-h_UP
7	7e-03	4 / 82	Pentrack_CRC_TCGA_group_over_A_normal_UP
8	2e-02	1 / 2	Hewish_dMMR-secondary-mutations_Cell-motility
9	2e-02	5 / 172	Pentrack_CRC_TCGA_corr_U_msi-h_UP
10	3e-02	10 / 539	Lembcke_TCGA_meth_kmeans_L_CIMP_H_DN
11	5e-02	1 / 5	Kaneda_CIMP-group1
12	5e-02	1 / 5	Hewish_dMMR-secondary-mutations_Apoptosis
13	5e-02	2 / 38	Marisa_CRC-cluster-e
14	5e-02	1 / 7	Boland_CRC-MSI-TGC
15	7e-02	1 / 8	Marisa_CRC-C3

Rank	p-value	#in/all	Geneset
1	3e-10	15 / 190	HALLMARK_TNFA_SIGNALING_VIA_NFKB
2	1e-07	9 / 85	HALLMARK_IL6_JAK_STAT3_SIGNALING
3	6e-07	11 / 170	HALLMARK_IL2_STAT5_SIGNALING
4	1e-06	11 / 187	HALLMARK_INFLAMMATORY_RESPONSE
5	4e-06	10 / 166	HALLMARK_INTERFERON_GAMMA_RESPONSE
6	9 / 168		HALLMARK_COMPLEMENT
7	5e-04	7 / 150	HALLMARK_APOPTOSIS
8	6e-03	6 / 176	HALLMARK_ALLOGRAFT_REJECTION
9	9e-03	6 / 188	HALLMARK_HYPOXIA
10	9e-03	6 / 191	HALLMARK_P53_PATHWAY
11	5e-03	5 / 174	HALLMARK_APICAL_JUNCTION
12	3e-02	4 / 130	HALLMARK_COAGULATION
13	1e-01	2 / 59	HALLMARK_CHOLESTEROL_HOMEOSTASIS
14	1e-01	4 / 193	HALLMARK_HEME_METABOLISM
15	1e-01	4 / 194	HALLMARK_KRAS_SIGNALING_UP

Rank	p-value	#in/all	Geneset
1	3e-42	31 / 85	Shn_DLBC_L UP
2	2e-24	26 / 173	Victoria_Light_zone_signature
3	2e-21	22 / 135	DAVE_BL-vs-DLBC_L
4	3e-18	23 / 213	SPANG_IL21_DN
5	9e-17	9 / 12	BENTINK_mBL_DOWN
6	2e-14	24 / 353	SPANG_CD40_6hrs_DN
7	1e-11	88 / 5404	HOPP_Strong_enhancer
8	1e-11	8 / 28	DAVE_NFKB_BL
9	7e-09	4 / 4	MASCOUE_mBL_DOWN
10	5e-08	8 / 57	SPANG_LPS_6hrs_DN
11	1e-07	9 / 85	Aukema_BCL2_DN_BCL6_UP
12	1e-07	9 / 88	ROSLOWSKI_green_UP
13	2e-06	9 / 906	SPANG_BCL6_DN
14	2e-06	9 / 121	ROSLOWSKI_green_ton
15	7e-05	10 / 234	Hopp_Lymphoma_Epi1_no_zentr_6_MCL_DN

Rank	p-value	#in/all	Geneset
1	0.003	2 / 9	hsa-miR-604
2	0.003	4 / 64	hsa-miR-890
3	0.005	6 / 165	hsa-miR-448
4	0.014	3 / 19	hsa-miR-554
5	0.018	2 / 22	hsa-miR-24-1*
6	0.018	3 / 59	hsa-miR-499-3p
7	0.024	6 / 237	hsa-miR-302c
8	0.029	3 / 71	hsa-miR-185-3p
9	0.039	4 / 134	hsa-miR-131
10	0.045	2 / 36	hsa-miR-129-3p
11	0.059	2 / 42	hsa-miR-1224-3p
12	0.060	6 / 295	hsa-miR-373
13	0.062	5 / 226	hsa-miR-302b
14	0.069	2 / 46	hsa-miR-1260
15	0.072	2 / 47	hsa-miR-665

Rank	p-value	#in/all	Geneset
1	1	0 / 13	Alternative lengthening of telomeres
2	1	0 / 27	Nabeta_n1_letn_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	

Rank	p-value	#in/all	Geneset
1	5e-05	14 / 431	immune system process
2	1e-04	15 / 520	positive regulation of transcription, DNA-templated
3	1e-04	10 / 250	regulation of apoptotic process
4	2e-04	4 / 30	negative regulation of extrinsic apoptotic signaling pathway via death domain
5	2e-04	4 / 30	regulation of tumor necrosis factor-mediated signaling pathway
6	2e-04	7 / 127	positive regulation of NF-kappaB transcription factor activity
7	2e-04	15 / 553	apoptotic process
8	2e-04	13 / 434	negative regulation of apoptotic process
9	2e-04	11 / 323	inflammatory response
10	3e-04	11 / 336	immune response
11	3e-04	3 / 15	regulation of extrinsic apoptotic signaling pathway via death domain receptors
12	4e-04	3 / 16	defense response to protozoan
13	6e-04	4 / 42	positive regulation of cell adhesion
14	7e-04	7 / 156	positive regulation of ERK1 and ERK2 cascade
15	1e-03	3 / 21	positive regulation of apoptotic signaling pathway

Rank	p-value	#in/all	Geneset
1	0.01	14 / 756	Chr 11
2	0.05	13 / 832	Chr 12
3	0.09	8 / 400	Chr 10
4	0.15	8 / 556	Chr X
5	0.31	9 / 776	Chr 17
6	0.44	7 / 669	Chr 6
7	0.46	4 / 369	Chr 20
8	0.47	7 / 688	Chr 3
9	0.47	6 / 585	Chr 7
10	0.48	13 / 1325	Chr 1
11	0.70	3 / 382	Chr 15
12	0.73	1 / 139	Chr 21
13	0.76	4 / 548	Chr 5
14	0.77	4 / 564	Chr 16
15	0.79	5 / 700	Chr 12

Rank	p-value	#in/all	Geneset
1	2e-11	23 / 447	Scov_0.999_Sturm_E4_Mesenchymal_RTK1_PDGFR_A_DN
2	3e-08	15 / 269	Scov_0.5_Sturm_C3_Mesenchymal_DN
3	3e-05	5 / 38	OL vs OPC
4	2e-04	10 / 268	WILLSCHER_GBM_M2_Mesenchymal_RTK1_PDGFR_A_DN
5	3e-04	9 / 231	WILLSCHER_GBM_Verhaak-CL & MES_UP
6	5e-04	9 / 242	Scov_0.5_Sturm_C1_IDH_DN
7	8e-04	20 / 979	Hopp_Sturm_GBM_Epi3_no_zentr_5_IDH_UP_fetus_adult_DN
8	2e-03	8 / 246	Scov_0.001_Sturm_M1_IDH_RTK1_PDGFR_A_DN
9	4e-03	5 / 109	Hopp_Sturm_GBM_Epi3_D_adult_fetus_IDH_UP
10	3e-03	2 / 18	Miyasaka_Utari_Astrocytoma
11	7e-03	4 / 82	laffaire_hypermeth_LGG_vs_control
12	8e-03	3 / 43	Patel_stemness_signatures
13	8e-03	2 / 15	Donson-chemokine/cytokine-receptors-associated with LTS in HGA
14	1e-02	5 / 139	WILLSCHER_GBM_proteomics_vsOnly_Differencelist
15	1e-02	5 / 144	Christensen_hypermethylated_in_grade2_oligodendroglioma

Rank	p-value	#in/all	Geneset
1	9e-05	3 / 10	Angelova Immune-metagenes-TFH
2	5e-04	3 / 17	Angelova Immune-metagenes-central_memory_CD8
3	8e-04	4 / 45	Angelova Immune-metagenes-MDSC
4	2e-03	2 / 7	Angelova Immune-metagenes-cytotoxic_cells
5	7e-03	3 / 42	Angelova Immune-metagenes-TGD
6	2e-03	2 / 18	Angelova_CRC_immunostimulators
7	2e-02	2 / 21	Angelova Immune-metagenes-central_memory_CD4
8	3e-02	3 / 67	Angelova Immune-metagenes-T_cells
9	3e-02	2 / 29	Angelova Immune-metagenes-Th1
10	6e-02	1 / 7	Angelova_CRC_MSI-neoantigens
11	1e-01	1 / 13	Tirosh Immune-metagenes-activated_B_cells
12	1e-01	1 / 13	Angelova_CRC_MSSA-neoantigens
13	2e-01	1 / 23	Angelova Immune-metagenes-Treg
14	3e-01	1 / 32	Angelova Immune-metagenes-effector_memory_CD8
15	1e+00	0 / 26	Angelova Immune-metagenes-activated_CD4

Rank	p-value	#in/all	Geneset
1	0.008	4 / 85	Tirosh_AXL-signature
2	0.009	6 / 189	Tirosh_genes_preferentially_expressed_by_Tregs
3	0.013	6 / 204	Landsberg_dedifferentiation_down
4	0.033	3 / 75	Tirosh_Endothelial-cell_specific_genes-melanoma
5	0.037	3 / 78	Tirosh_expression_higher_in_CAFs_than_in_T_cells
6	0.046	1 / 5	Hugo_melanoma-BRAFmut-MET_DN
7	0.080	3 / 107	Tirosh_Exhaustion_program_in_Mel75
8	0.083	1 / 24	Tirosh_genes_from_CD8_T_cells_in_Mel79-melanoma
9	0.096	8 / 497	Gerber_wt/wt_melanoma-cells-SpotB
10	0.097	4 / 185	Tirosh_genes_from_malignant_cells_in_Mel79-melanoma
11	0.140	1 / 16	Hugo_melanoma-all-LEF1_UP
12	0.144	2 / 71	Tirosh_Macrophage_specific_genes-melanoma
13	0.213	1 / 24	Tirosh_exhaustion_genes_consistent_across_tumors
14	0.281	4 / 276	Gerber_wt/wt_melanoma-cells-SpotB
15	0.295	1 / 37	Hugo_melanoma-all-MET_DN

Rank	p-value	#in/all	Geneset
1	0.01	2 / 18	Scicluna_UP
2	0.06	2 / 41	Scicluna_DN
3	0.09	4 / 179	Terre_MSV_multiple_respiratory_viruses_dn
4	0.13	3 / 135	Terre_MSV_multiple_respiratory_viruses_up
5	0.36	1 / 48	Burnham_cap_fp_vs_con_DN
6	0.39	1 / 52	Burnham_day1_vs_5_DN
7	0.47	1 / 68	Burnham_sep_vs_con_UP
8	0.69	1 / 122	Terre_ILMS_influenza_meta_signature
9	0.80	0 / 56	Burnham_sep_vs_con_DN
10	1.00	0 / 71	Burnham_cap_fp_vs_con_UP
11	1.00	0 / 48	Burnham_viral_DN
12	1.00	0 / 57	Burnham_viral_UP
13	1.00	0 / 57	Burnham_day1_vs_5_UP
14	1.00	0 / 54	Burnham_timecourse
15	1.00	0 / 37	Sweeney_viral_up

Rank	p-value	#in/all	Geneset
1	3e-05	36 / 1941	ICGC_Bcl3_targets
2	6e-05	39 / 2254	ICGC_BatfPcr1_targets
3	3e-04	28 / 1508	ICGC_Mef2_targets
4	3e-04	50 / 3435	ICGC_Ebfc137065_targets
5	5e-04	37 / 2321	ICGC_Rad21_targets
6	1e-03	42 / 2899	ICGC_Nfatc1_targets
7	2e-03	62 / 4851	ICGC_Runx3_targets
8	2e-03	51 / 3796	ICGC_Nficsc81335_targets
9	2e-03	47 / 3420	ICGC_Bclaf101388_targets
10	2e-03	27 / 1636	ICGC_Bcl11_targets
11	4e-03	58 / 4602	ICGC_Elf1_targets
12	5e-03	53 / 4131	ICGC_Tcf3_targets
13	5e-03	49 / 3769	ICGC_Pmlsc71910_targets
14	6e-03	52 / 4072	ICGC_Mta3_targets
15	6e-03	24 / 1494	ICGC_Cebpssc150_targets

Rank	p-value	#in/all	Geneset
1	9e-20	28 / 317	SPANG_BCL6-index2
2	1e-19	23 / 186	SPANG_LPS-index2
3	1e-10	23 / 480	Lembcke_Colonc_Inflammation
4	9e-05	3 / 10	BENTINK_ras_4
5	3e-03	1 / 14	LIU_PROSTATE_CANCER_DN
6	3e-03	6 / 147	PanCan_MAPK_geneset_nanostring
7	1 / 16		LIU_LIVER_CANCER
8	4e-02	3 / 80	PanCan_JAK-ST_geneset_nanostring
9	6e-02	3 / 96	PanCan_TXmisReg_geneset_nanostring
10	7e-02	2 / 45	KUIPER_MM_poor_survival
11	9e-02	7 / 409	Lembcke_Normal_vs_Adenoma
12	1 / 13		GENTLES_modul11
13	1e-01	3 / 130	PanCan_CC+Apop_geneset_nanostring
14	1e-01	1 / 14	GUSTAFSON_PI3K_UP
15	1e-01	1 / 14	BENTINK_src.10

Rank	p-value	#in/all	Geneset
1	2e-07	105 / 8406	Bcells_peripheral_blood_2_TssAFInk
2	3e-07	37 / 1676	Fetal_Txfrans
3	6e-07	16 / 383	K5sLow_Colon
4	6e-07	47 / 2507	Mid_Frontal_Lobe_ReprPC
5	3e-06	30 / 1308	Mid_Frontal_Lobe_K9K27me3
6	5e-06	59 / 3767	Bcells_peripheral_blood_6_EnhG
7	6e-06	100 / 8200	monocytes_peripheral_blood_2_TssAFInk
8	9e-06	37 / 111	Mid_Frontal_Lobe_HetRpts
9	2e-05	96 / 7833	Bcells_peripheral_blood_1_TssA
10	2e-05	95 / 7751	natural_killer_cells_peripheral_blood_1_TssA
11	2e-05	100 / 8370	natural_killer_cells_peripheral_blood_2_TssAFInk
12	2e-05	33 / 1684	1_Tss_Neural_Progenitor
13	2e-05	89 / 7078	7_Enh_Esc_Mesoderm
14	3e-05	36 / 1930	Fetal_TssA
15	3e-05	107 / 9298	Bcells_peripheral_blood_7_Enh

Rank	p-value	#in/all	Geneset
1	2e-22	20 / 90	BASSO_CD40_SIGNALING_UP
2	1e-20	11 / 14	HUMMEL_BURKITS_LYMPHOMA_DN
3	4e-12	18 / 229	OI_PLASMACYTOMA_UP
4	8e-11	10 / 55	DIRMEIER_LMP1

D-Cluster

Spot Summary: D

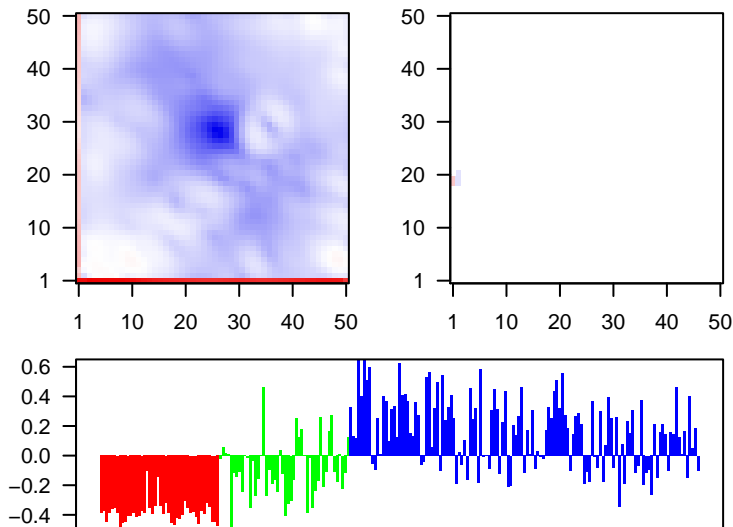
metagenes = 5
genes = 70

<r> metagenes = 0.99
<r> genes = 0.31
beta: r2= 9.57 / log p= -Inf

samples with spot = 52 (23.5 %)
intermediate : 3 (6.2 %)
non-mBL : 49 (38 %)

Overview Map

Spot

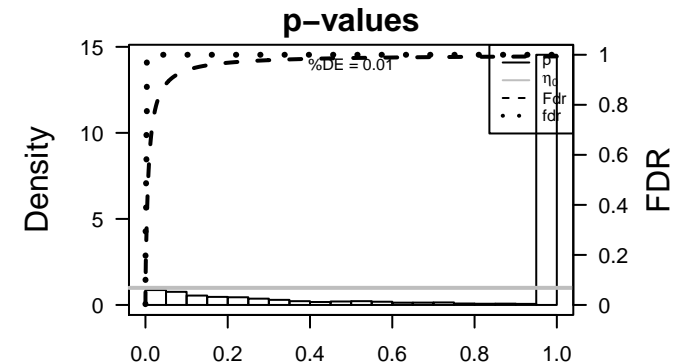


Spot Genelist

Rank	ID	max e	r	min e	Description
1	201839_s_at	2.49	-1.02	0.34	EPCAM epithelial cell adhesion molecule [Source:HGNC Symbol;Acc:
2	219836_at	2.38	-1.24	0.61	ZBED2 zinc finger BED-type containing 2 [Source:HGNC Symbol;Acc:
3	217523_at	2.2	-1.4	0.72	CD44 CD44 molecule (Indian blood group) [Source:HGNC Symbol;Acc:
4	219255_x_at	2.16	-1.57	0.47	IL17RB interleukin 17 receptor B [Source:HGNC Symbol;Acc:HGNC:
5	204724_s_at	2.01	-1.6	0.38	COL9A3 collagen type IX alpha 3 chain [Source:HGNC Symbol;Acc:HGNC:
6	202986_at	1.95	-0.86	0.63	ARNT2 aryl hydrocarbon receptor nuclear translocator 2 [Source:HGNC:
7	205987_at	1.93	-1.33	0.37	CD1C CD1c molecule [Source:HGNC Symbol;Acc:HGNC:1636]
8	33197_at	1.89	-0.9	0.53	MYO7A myosin VIIA [Source:HGNC Symbol;Acc:HGNC:7606]
9	219959_at	1.84	-0.95	0.59	MOCOS molybdenum cofactor sulfurase [Source:HGNC Symbol;Acc:HGNC:
10	205542_at	1.83	-1.05	0.47	STEAP1 STEAP family member 1 [Source:HGNC Symbol;Acc:HGNC:
11	210753_s_at	1.81	-1.19	0.63	EPHB1 EPH receptor B1 [Source:HGNC Symbol;Acc:HGNC:3392]
12	222281_s_at	1.76	-1.97	0.73	
13	206698_at	1.73	-1.34	0.64	XK X-linked Kx blood group [Source:HGNC Symbol;Acc:HGNC:
14	220565_at	1.72	-1.38	0.66	CCR10 C-C motif chemokine receptor 10 [Source:HGNC Symbol;Acc:
15	206756_at	1.69	-0.96	0.45	CHST7 carbohydrate sulfotransferase 7 [Source:HGNC Symbol;Acc:HGNC:
16	209094_at	1.63	-1.37	0.49	DDAH1 dimethylarginine dimethylaminohydrolase 1 [Source:HGNC S
17	201750_s_at	1.6	-1.11	0.68	ECE1 endothelin converting enzyme 1 [Source:HGNC Symbol;Acc:HGNC:
18	207433_at	1.6	-0.83	0.68	IL10 interleukin 10 [Source:HGNC Symbol;Acc:HGNC:5962]
19	208189_s_at	1.54	-0.68	0.41	MYO7A myosin VIIA [Source:HGNC Symbol;Acc:HGNC:7606]
20	211269_s_at	1.51	-1.3	0.46	IL2RA interleukin 2 receptor subunit alpha [Source:HGNC Symbol;A

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-06	8 / 182	Refer WIRTH_post GC B-cells
2	3e-06	10 / 317	Cancr SPANG_BCL6-index2
3	3e-06	6 / 85	Lymph Aukema_BCL2_DN_BCL6_UP
4	2e-05	3 / 12	BP leukocyte chemotaxis
5	2e-05	3 / 12	GSE/ GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP
6	6e-05	5 / 85	Lymph Sha_DLBCL_UP
7	6e-05	42 / 5404	Lymph HOPP_Strong_enhancer
8	6e-05	5 / 87	GSE/ BOSCO_TH1_CYTOTOXIC_MODULE
9	7e-05	7 / 213	Lymph SPANG_IL21_DN
10	8e-05	3 / 18	Lymph WRIGHT_ABC_UP
11	9e-05	4 / 49	GSE/ GAURNIER_PSMD4_TARGETS
12	2e-04	7 / 249	GSE/ HUTTMANN_B_CLL_POOR_SURVIVAL_UP
13	2e-04	6 / 175	GSE/ OKUMURA_INFLAMMATORY_RESPONSE_LPS
14	2e-04	4 / 63	GSE/ BOYLAN_MULTIPLE_MYELOMA_D_DN
15	3e-04	4 / 67	Immu Angelova_immune-metogene-T-cells
16	5e-04	4 / 77	GSE/ KEGG_HEMATOPOIETIC_CELL_LINEAGE
17	8e-04	4 / 85	HM HALLMARK_IL6_JAK_STAT3_SIGNALING
18	8e-04	11 / 741	GSE/ PEREZ_TP53_TARGETS
19	8e-04	7 / 318	GSE/ MEISSNER_NPC_HCP_WITH_H3K4ME2
20	9e-04	7 / 321	GSE/ PHONG_TNF_RESPONSE_NOT_VIA_P38
21	1e-03	2 / 10	BP N-acetylglucosamine metabolic process
22	1e-03	9 / 539	Color Lembecke_TCGA_meth_kmeans_L_CIMP_H_DN
23	1e-03	8 / 434	BP negative regulation of apoptotic process
24	1e-03	2 / 11	BP negative regulation of nitric oxide biosynthetic process
25	1e-03	5 / 168	BP regulation of gene expression
26	1e-03	3 / 46	GSE/ WORSCHER_TUMOR_REJECTION_UP
27	1e-03	7 / 348	GSE/ MARTENS_BOUND_BY_PML_RARA_FUSION
28	1e-03	2 / 12	BP positive regulation of heterotypic cell-cell adhesion
29	1e-03	2 / 12	Lymph BENTINK_mBL_DOWN
30	1e-03	8 / 453	GSE/ ONDER_CDH1_TARGETS_2_DN
31	1e-03	5 / 173	Lymph Victora_Light zone signature
32	2e-03	5 / 176	HM HALLMARK_ALLOGRAFT_REJECTION
33	2e-03	2 / 13	Cancr BENTINK_e2f3.1
34	2e-03	2 / 13	GSE/ LIU_IL13_PRIMING_MODEL
35	2e-03	6 / 271	GSE/ ENK_UV_RESPONSE_EPIDERMIS_UP
36	2e-03	2 / 14	Gliom Donsor-chemokines/cytokines-associated with LTS in HGA
37	2e-03	2 / 14	GSE/ HUMMEL_BURKITTIS_LYMPHOMA_DN
38	2e-03	5 / 186	Cancr SPANG_LPS-index2
39	2e-03	4 / 113	GSE/ LEE_NEURAL_CREST_STEM_CELL_DN
40	2e-03	3 / 54	BP phagocytosis



Rank	p-value	#in/all	Geneset
1	0.2	1 / 47	TESCHENDORFF_age_hypermethylated
2	0.4	1 / 107	HORVATH_aging_genes_meth_UP
3	1.0	0 / 92	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	

Rank	p-value	#in/all	Geneset
1	0.003	2 / 18	phagocytosis cup
2	0.007	7 / 462	cell surface
3	0.01	1 / 128	integral component of plasma membrane
4	0.008	25 / 3270	integral component of membrane
5	0.010	7 / 494	endosome
6	0.023	2 / 48	filocolin-1-rich granule membrane
7	0.023	2 / 48	microvillus
8	0.026	4 / 231	apical plasma membrane
9	0.050	2 / 74	secretory granule membrane
10	0.052	1 / 11	exocyst
11	0.052	1 / 11	paranode region of axon
12	0.061	1 / 13	integral component of nuclear inner membrane
13	0.061	1 / 13	specific granule
14	0.063	3 / 188	endosome membrane
15	0.066	1 / 14	filopodium tip

Rank	p-value	#in/all	Geneset
1	0.001	9 / 539	Lembcke_TCGA_meth_kmeans_L_CIMP_H_DN
2	0.007	8 / 589	Lembcke_TCGA_expr_kmeans_E_CIMP_H_UP_Cluster4_DN
3	0.051	3 / 172	Pentrack_CRC_TCGA_corr_U_msi-h_UP
4	0.051	4 / 288	Pentrack_CRC_TCGA_corr_U_msi-h_UP_mss_DN
5	0.051	8 / 848	LaPointe_mucosa-position_kmeans_O_transverse_colon_UP
6	0.053	10 / 1166	LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_cecum_colon_a
7	0.084	5 / 483	Lembcke_TCGA_expr_kmeans_H_CIMP_H_UP_Cluster3_DN
8	0.134	7 / 883	LaPointe_mucosa-position_kmeans_L_transverse_colon_cecum_colon_DN
9	0.140	1 / 31	Kosinski_lower_crypt-short-list
10	0.174	3 / 297	Pentrack_CRC_TCGA_group_over_B_msi-h_UP
11	0.176	4 / 452	Lembcke_TCGA_expr_kmeans_L_CIMP_H_UP_Cluster4_DN
12	0.200	3 / 318	Lembcke_TCGA_meth_kmeans_L_CIMP_H_UP
13	0.412	2 / 290	Lembcke_TCGA_meth_kmeans_O_CIMP_H_UP
14	0.429	3 / 492	LaPointe_mucosa-position_kmeans_C_cecum_colon_ascending_colon_trans
15	0.464	9 / 1729	LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_ti

Rank	p-value	#in/all	Geneset
1	8e-04	4 / 85	HALLMARK_IL6_JAK_STAT3_SIGNALING
2	2e-03	5 / 176	HALLMARK_ALLOGRAFT_REJECTION
3	1e-02	4 / 193	HALLMARK_HEME_METABOLISM
4	5e-02	3 / 170	HALLMARK_IL2_STATS_SIGNALING
5	5e-02	2 / 76	HALLMARK_INTERFERON_ALPHA_RESPONSE
6	3e-02	3 / 190	HALLMARK_TNFA_SIGNALING_VIA_NFKB
7	7e-02	3 / 193	HALLMARK_ESTROGEN_RESPONSE_LATE
8	7e-02	3 / 194	HALLMARK_ESTROGEN_RESPONSE_EARLY
9	2e-01	2 / 166	HALLMARK_INTERFERON_GAMMA_RESPONSE
10	2e-01	2 / 194	HALLMARK_KRAS_SIGNALING_UP
11	2e-01	2 / 195	HALLMARK_C2M_CHECKPOINT
12	2e-01	1 / 59	HALLMARK_CHOLESTEROL_HOMEOSTASIS
13	4e-01	1 / 122	HALLMARK_SPERMATOGENESIS
14	5e-01	1 / 141	HALLMARK_UV_RESPONSE_DN
15	5e-01	1 / 149	HALLMARK_UV_RESPONSE_UP

Rank	p-value	#in/all	Geneset
1	3e-06	6 / 85	Aukema_BCL2_DN_BCL6_UP
2	6e-05	5 / 85	Sha_DLBCL_UP
3	6e-05	42 / 5404	HOPP_Strong_enhancer
4	7e-05	7 / 213	SPANG_IL21_DN
5	8e-05	3 / 18	WRIGHT_ABC_UP
6	1e-03	2 / 12	BENTINK_mBL_DOWN
7	1e-03	5 / 173	Victoria_Light_zone_signature
8	2e-03	2 / 15	SuBERO_T-ALL_hypo_meth
9	4e-03	11 / 906	SPANG_BCR_DN
10	4e-03	4 / 135	DAVE_BL-vs-DLBCL
11	5e-03	5 / 234	Hopp_Lymphoma_Epi1_no_zentr_6_MCL_DN
12	7e-03	6 / 353	SPANG_CD40_hrs_DN
13	2e-02	16 / 1894	HOPP_Posit_promoter
14	2e-02	1 / 4	MASCQUE_mBL_DOWN
15	4e-02	28 / 4261	HOPP_Txn_transition

Rank	p-value	#in/all	Geneset
1	0.002	3 / 55	hsa-miR-140-3p
2	0.007	2 / 26	hsa-miR-1292
3	0.010	3 / 92	hsa-miR-500
4	0.014	3 / 35	hsa-miR-331-5p
5	0.015	2 / 38	hsa-miR-658
6	0.019	2 / 44	hsa-miR-552
7	0.021	2 / 46	hsa-miR-296-3p
8	0.024	2 / 50	hsa-miR-219-5p
9	0.029	1 / 6	hsa-miR-523
10	0.033	2 / 59	hsa-miR-643
11	0.036	2 / 62	hsa-miR-578
12	0.036	2 / 62	hsa-miR-205
13	0.043	1 / 9	hsa-miR-887
14	0.043	1 / 9	hsa-miR-604
15	0.054	2 / 77	hsa-miR-362-5p

Rank	p-value	#in/all	Geneset
1	1	0 / 13	Alternative lengthening of telomeres
2	1	0 / 27	Nabeta1n_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	

BP Rank	p-value	#in/all	Geneset
1	2e-05	3 / 12	leukocyte chemotaxis
2	2e-05	2 / 10	N-acetylglucosamine metabolic process
3	1e-03	8 / 434	negative regulation of apoptotic process
4	1e-03	2 / 11	negative regulation of nitric oxide biosynthetic process
5	1e-03	5 / 168	regulation of gene expression
6	1e-03	2 / 12	positive regulation of heterotypic cell-cell adhesion
7	3e-03	3 / 54	phagocytosis
8	3e-03	2 / 16	defense response to protozoan
9	3e-03	2 / 16	positive regulation of T cell differentiation
10	3e-03	8 / 520	positive regulation of transcription, DNA-templated
11	4e-03	3 / 64	negative regulation of inflammatory response
12	5e-03	2 / 12	negative regulation of interleukin-6 production
13	6e-03	6 / 336	biological_process
14	6e-03	6 / 336	immune response
15	6e-03	2 / 24	negative regulation of mitotic cell cycle

Chr Rank	p-value	#in/all	Geneset
1	0.04	5 / 382	Chr 15
2	0.05	11 / 1325	Chr 1
3	0.05	6 / 11	Chr 1
4	0.24	5 / 689	Chr 3
5	0.28	4 / 556	Chr X
6	0.32	4 / 585	Chr 7
7	0.48	2 / 333	Chr 22
8	0.50	3 / 548	Chr 16
9	0.52	4 / 776	Chr 17
10	0.54	2 / 369	Chr 20
11	0.58	4 / 832	Chr 2
12	0.59	1 / 184	Chr 18
13	0.68	2 / 480	Chr 4
14	0.69	2 / 490	Chr 10
15	0.78	3 / 833	Chr 19

Rank	p-value	#in/all	Geneset
1	0.002	2 / 14	Donson-chemokines/cytokines-associated with LTS in HGA
2	0.010	5 / 269	Scov_0_5_Sturm_C3_Mesenchymal_DN
3	0.014	1 / 3	laffaire_hypometh_LGG_vs_control
4	0.016	6 / 423	Down_a
5	0.021	6 / 447	Scov_0_999_Sturm_E4_Mesenchymal_RTK1_PDGFR_A_DN
6	0.024	2 / 49	OPC
7	0.024	2 / 50	Christensen_hypomethylated_in_primary_glioblastoma
8	0.033	1 / 7	KIM_epithelial_mesenchymal-transition related genes_decreased expression
9	0.035	1 / 7	oligodendrocytes_glio
10	0.035	6 / 61	Christensen_hypomethylated_in_secondary_glioblastoma
11	0.041	4 / 268	Scov_0_001_Sturm_M2_Mesenchymal_RTK1_PDGFR_A_DN
12	0.046	9 / 979	Hopp_Sturm_GBM_Epi3_no_zentr_5_IDH_UP_tetus_adult_DN
13	0.060	2 / 82	laffaire_hypermeth_LGG_vs_control
14	0.061	1 / 13	Christensen_hypomethylated_in_grade2_astrocytoma
15	0.061	1 / 13	Christensen_hypomethylated_in_grade2_oligoastrocytoma

Rank	p-value	#in/all	Geneset
1	3e-04	4 / 67	Angelova Immune-metagenes-T-cells
2	9e-03	2 / 29	Angelova Immune-metagenes-Th1
3	5e-02	1 / 10	Angelova_CRC_immunoinhibitors
4	5e-02	1 / 11	Angelova Immune-metagenes-macrophages
5	7e-02	1 / 16	Angelova Immune-metagenes-Th17
6	2e-01	2 / 15	Angelova Immune-metagenes-MDSC
7	1e+00	0 / 13	Angelova Immune-metagenes-activated_B-cells
8	1e+00	0 / 26	Angelova Immune-metagenes-activated_CD8
9	1e+00	0 / 19	Angelova Immune-metagenes-activated_CD4
10	1e+00	0 / 21	Angelova Immune-metagenes-central_memory_CD4
11	1e+00	0 / 17	Angelova Immune-metagenes-central_memory_CD8
12	1e+00	0 / 7	Angelova Immune-metagenes-cytotoxic_cells
13	1e+00	0 / 25	Angelova Immune-metagenes-DC
14	1e+00	0 / 12	Angelova Immune-metagenes-effector_memory_CD4
15	1e+00	0 / 32	Angelova Immune-metagenes-effector_memory_CD8

Rank	p-value	#in/all	Geneset
1	0.02	1 / 5	Hugo_melanoma-BRAFmut-MET_DN
2	0.07	1 / 16	Hugo_melanoma-all_LEF1_UP
3	0.10	3 / 230	Gerber_wtwt_melanoma-cells-SpotC
4	0.11	1 / 24	Tirosh_exhaustion-associated genes consistent across tumors
5	0.11	1 / 24	Tirosh_B-cell specific genes-melanoma
6	0.17	1 / 39	Tirosh_top50 correlated genes PC4
7	0.17	1 / 39	Tirosh_melanoma specific genes
8	0.18	1 / 41	Tirosh_top50 correlated genes PC3
9	0.20	1 / 46	Tirosh_top50 correlated genes PC5
10	0.20	2 / 171	Landsberg_dedifferentiation_up
11	0.23	2 / 189	Tirosh_genes preferentially expressed by Tregs
12	0.26	2 / 204	Landsberg_dedifferentiation_down
13	0.27	1 / 64	Harbst_melanoma_lowgrade_up
14	0.27	1 / 65	Harbst_melanoma_highgrade_up
15	0.31	1 / 75	Tirosh_Endothelial-cell specific genes-melanoma

Rank	p-value	#in/all	Geneset
1	0.1	2 / 135	Terre_MS_V multiple_respiratory_viruses_up
2	0.2	1 / 41	Sciocluna_DN
3	0.2	1 / 52	Burnham_day1_vs_5_DN
4	0.2	1 / 54	Burnham_timecourse
5	0.2	1 / 57	Burnham_viral_UP
6	0.4	1 / 122	Terre_IMS_influenza_meta_signature
7	1.0	0 / 68	Burnham_sep_vs_con_UP
8	1.0	0 / 56	Burnham_sep_vs_con_DN
9	1.0	0 / 48	Burnham_sep_vs_con_DN
10	1.0	0 / 71	Burnham_cap_fp_vs_con_UP
11	1.0	0 / 48	Burnham_viral_DN
12	1.0	0 / 57	Burnham_day1_vs_5_UP
13	1.0	0 / 18	Sciocluna_UP
14	1.0	0 / 37	Heeseyn_viral_up
15	1.0	0 / 33	Sweeney_viral_dn

Rank	p-value	#in/all	Geneset
1	0.06	9 / 1041	ICGC_P300_targets
2	0.07	16 / 2254	ICGC_BatfPcr1_targets
3	0.09	12 / 1636	ICGC_Bcl11_targets
4	0.22	12 / 1941	ICGC_Bcl3_targets
5	0.23	9 / 1387	HEBENS_TREIT_high_expression_TF
6	0.25	4 / 522	ICGC_SrfPcr2_targets
7	0.31	9 / 1508	ICGC_Mef2_targets
8	0.44	8 / 1494	ICGC_Cebpbsct150_targets
9	0.49	15 / 2994	ICGC_Zeb1_targets
10	0.56	14 / 2899	ICGC_Nfatc1_targets
11	0.59	11 / 2321	ICGC_Rad21_targets
12	0.63	16 / 3451	ICGC_Atf2_targets
13	0.64	20 / 4319	ICGC_Pou2_targets
14	0.65	17 / 3703	ICGC_Foxm1_targets
15	0.68	14 / 3121	ICGC_Egr1_targets

Rank	p-value	#in/all	Geneset
1	3e-06	10 / 317	SPANG_BCL6-index2
2	2e-03	2 / 13	BENTINK_g2f3.1
3	2e-03	5 / 186	SPANG_LPS-index2
4	7e-03	3 / 80	PanCan_JAK-ST_geneset_nanostring
5	8e-03	7 / 480	Lembcke_Colonc_Inflammation
6	7e-02	1 / 14	LIU_COMMON_CANCER_GENES
7	2e-01	1 / 45	KUIPER_MM_poor_survival
8	2e-01	2 / 187	PanCan_P13K_geneset_nanostring
9	3e-01	0 / 11	LIU_PROSTATE_CANCER_UP
10	4e-01	1 / 96	PanCan_TXmisReg_geneset_nanostring
11	5e-01	0 / 14	LIU_PROSTATE_CANCER_DN
12	6e-01	2 / 409	Lembcke_Normal_vs_Adenoma
13	1e+00	0 / 15	RHODES_CANCER_META_SIGNATURE
14	1e+00	0 / 15	RHODES_UNDIFFERENTIATED_CANCER
15	1e+00	0 / 16	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN

Rank	p-value	#in/all	Geneset
1	3e-07	26 / 390	Fetal_TssA
2	6e-07	31 / 2724	Toelis_peripheral_blood_11_BivFlnk
3	3e-06	22 / 1611	natural killer cells_peripheral_blood_11_BivFlnk
4	6e-06	11 / 432	monocytes_peripheral_blood_3_TxFlnk
5	2e-05	31 / 3150	monocytes_peripheral_blood_13_ReprPC
6	2e-05	27 / 2507	Mid_Frontal_Lobe_ReprPC
7	2e-05	27 / 2531	10_TssBiv_ESC_Endoderm
8	2e-05	13 / 693	Bcals_peripheral_blood_3_TxFlnk
9	3e-05	23 / 2164	Regulatory_cells_peripheral_blood_11_BivFlnk
10	4e-05	12 / 626	natural killer cells_peripheral_blood_3_TxFlnk
11	8e-05	20 / 1676	Fetal_TxTrans
12	1e-04	29 / 3110	14_ReprPCWk_ESC_Endoderm
13	1e-04	17 / 1308	Mid_Frontal_Lobe_K9K27me3
14	1e-04	24 / 2321	14_ReprPCWk_ESC_Mesoderm
15	1e-04	28 / 2972	13_ReprPC_ESC_Endoderm

Rank	p-value	#in/all	Geneset
1	2e-05	3 / 12	GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP
2	6e-05	5 / 87	BOSCO_TH1_CYTOTOXIC_MODULE
3	9e-05	4 / 49	GAURNIER_PSMd4_TARGETS
4	2e-04	7 / 249	HUTTMANN_B_CELL_POOR_SURVIVAL_UP
5	4e-04	6 / 175	OKUMURA_INFLAMMATORY_RESPONSE_LPS

D-Cluster

Spot Summary: E

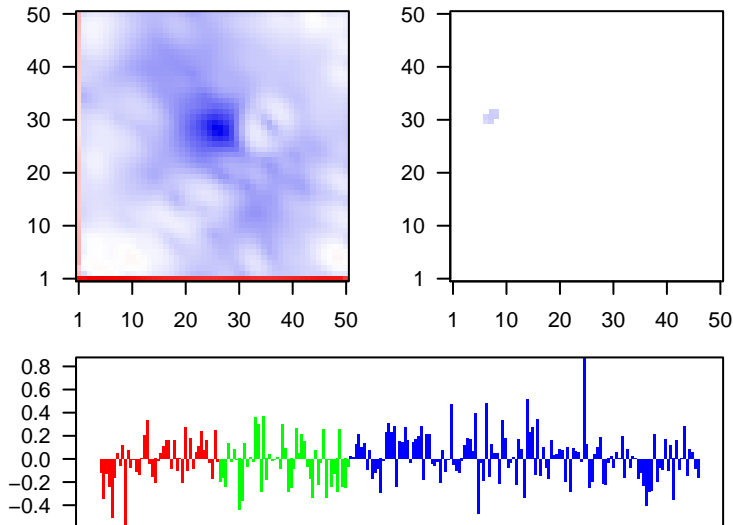
metagenes = 7
genes = 49

<r> metagenes = 0.99
<r> genes = 0.23
beta: r2= 2.08 / log p= -Inf

samples with spot = 20 (9 %)
mBL : 2 (4.5 %)
intermediate : 5 (10.4 %)
non-mBL : 13 (10.1 %)

Overview Map

Spot

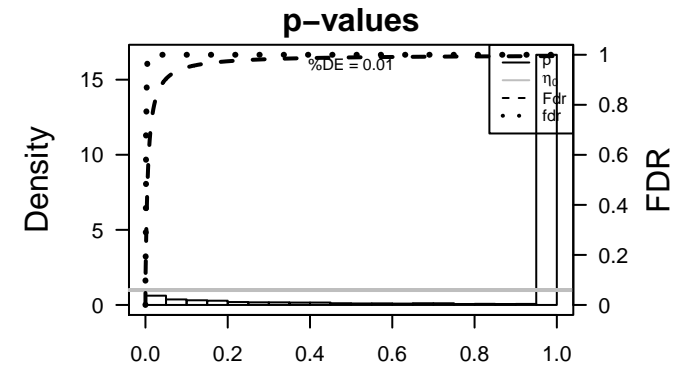


Spot Genelist

Rank	ID	max e	r	min e	Description
1	217414_x_at	2.09	-2.18	0.8	HBA2 hemoglobin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC]
2	217232_x_at	1.87	-1.68	0.76	HBB hemoglobin subunit beta [Source:HGNC Symbol;Acc:HGNC]
3	209458_x_at	1.77	-1.81	0.8	HBA2 hemoglobin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC]
4	211699_x_at	1.76	-1.79	0.81	HBA2 hemoglobin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC]
5	209116_x_at	1.75	-1.74	0.77	HBB hemoglobin subunit beta [Source:HGNC Symbol;Acc:HGNC]
6	204018_x_at	1.74	-1.94	0.8	HBA2 hemoglobin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC]
7	39248_at	1.74	-1.59	0.34	AQP3 aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:HGNC]
8	211696_x_at	1.67	-1.34	0.75	HBB hemoglobin subunit beta [Source:HGNC Symbol;Acc:HGNC]
9	211745_x_at	1.66	-1.57	0.8	HBA2 hemoglobin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC]
10	214414_x_at	1.47	-1.7	0.79	HBA2 hemoglobin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC]
11	219911_s_at	1.32	-2.03	0.23	SLCO4A4 solute carrier organic anion transporter family member 4A1 [Source:HGNC Symbol;Acc:HGNC]
12	213447_at	1.29	-1.37	0.17	small nucleolar RNA host gene 14 [Source:HGNC Symbol;Acc:HGNC]
13	218681_s_at	1.27	-1.26	0.43	SDF2L1 stromal cell derived factor 2 like 1 [Source:HGNC Symbol;Acc:HGNC]
14	207542_s_at	1.25	-0.94	0.34	AQP1 aquaporin 1 (Colton blood group) [Source:HGNC Symbol;Acc:HGNC]
15	219118_at	1.23	-0.75	0.55	FKBP11 FK506 binding protein 11 [Source:HGNC Symbol;Acc:HGNC]
16	219117_s_at	1.23	-0.99	0.52	FKBP11 FK506 binding protein 11 [Source:HGNC Symbol;Acc:HGNC]
17	221529_s_at	1.2	-1.15	0.4	PLVAP plasmalemma vesicle associated protein [Source:HGNC Symbol;Acc:HGNC]
18	202053_s_at	1.12	-1.77	0.31	ALDH3A2 aldehyde dehydrogenase 3 family member A2 [Source:HGNC Symbol;Acc:HGNC]
19	210006_at	1.11	-0.98	0.33	ABHD14A abhydrolase domain containing 14A [Source:HGNC Symbol;Acc:HGNC]
20	200998_s_at	1.09	-1.26	0.42	CKAP4 cytoskeleton associated protein 4 [Source:HGNC Symbol;Acc:HGNC]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	9e-13	9 / 75	GSE/ TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_UP
2	1e-12	9 / 77	Lymp/ TARTE_Plasma cell signature
3	3e-11	11 / 216	GSE/ PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_UP
4	2e-10	18 / 1035	CC endoplasmic reticulum
5	2e-09	13 / 518	GSE/ MILL_PSEUDOPODIA_HAPTOTAXIS_DN
6	6e-09	14 / 683	CC endoplasmic reticulum membrane
7	1e-07	5 / 41	GSE/ MORI_PLASMA_CELL_UP
8	1e-05	23 / 3270	CC integral component of membrane
9	2e-05	4 / 54	BP IRE1-mediated unfolded protein response
10	5e-05	4 / 68	GSE/ REACTOME_UNFOLDED_PROTEIN_RESPONSE
11	6e-05	4 / 71	GSE/ REACTOME_ASPARAGINE_N_LINKED_GLYCOSYLATION
12	1e-04	7 / 384	GSE/ MILL_PSEUDOPODIA_CHEMOTAXIS_DN
13	1e-04	3 / 34	BP bicarbonate transport
14	2e-04	24 / 4131	TF ICGC_Tc3_targets
15	2e-04	3 / 37	GSE/ KEGG_N_GLYCAN_BIOSYNTHESIS
16	2e-04	4 / 95	MF isomerase activity
17	2e-04	2 / 8	GSE/ RODRIGUES_THYROID_CARCINOMA_UP
18	3e-04	3 / 41	GSE/ REACTOME_ACTIVATION_OF_CHAPERONE_GENES_BY_XBP1S
19	3e-04	3 / 42	BP chaperone-mediated protein folding
20	3e-04	4 / 110	GSE/ REACTOME_DIABETES_PATHWAYS
21	4e-04	24 / 4319	TF ICGC_Pou2_targets
22	4e-04	2 / 10	MF water channel activity
23	4e-04	2 / 10	GSE/ REACTOME_PASSIVE_TRANSPORT_BY_AQUAPORINS
24	4e-04	6 / 325	GSE/ REACTOME_METABOLISM_OF_PROTEINS
25	4e-04	4 / 119	GSE/ YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_14
26	5e-04	2 / 11	BP oxygen transport
27	5e-04	2 / 11	Refer JONGENEEL_Peripheral Blood Lymphocytes
28	5e-04	2 / 11	Refer Chaussabel_3.5_Hemoglobin genes
29	5e-04	27 / 5339	CC membrane
30	5e-04	3 / 53	CC rough endoplasmic reticulum
31	6e-04	2 / 12	GSE/ BIOCARTA_AHSP_PATHWAY
32	7e-04	2 / 13	CC endocytic vesicle lumen
33	7e-04	2 / 13	GSE/ REACTOME_N_GLYCAN_TRIMMING_IN_THE_ER_AND_CALNEXIN_CYCLE
34	7e-04	2 / 13	GSE/ REACTOME_DESTABILIZATION_OF_MRNA_BY_BRF1
35	7e-04	2 / 13	GSE/ REACTOME_DESTABILIZATION_OF_MRNA_BY_TRISTETRAPROLIN_T
36	8e-04	4 / 137	GSE/ REACTOME_POST_TRANSLATIONAL_PROTEIN_MODIFICATION
37	8e-04	5 / 241	CC endoplasmic reticulum lumen
38	8e-04	2 / 14	BP water transport
39	8e-04	19 / 3121	TF ICGC_Egr1_targets
40	8e-04	4 / 140	BP protein folding



Rank	p-value	#in/all	Geneset
1	0.0	1 / 92	HORVATH_aging_genes_meth_DOWN
2	1.0	0 / 107	HORVATH_aging_genes_meth_UP
3	1.0	0 / 47	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	

BP Rank	p-value	#in/all	Geneset
1	2e-05	4 / 54	IRE1-mediated unfolded protein response
2	1e-04	3 / 34	bicarbonate transport
3	3e-04	3 / 42	chaperone-mediated protein folding
4	5e-04	2 / 11	oxygen transport
5	8e-04	2 / 14	water transport
6	8e-04	4 / 140	protein folding
7	1e-03	2 / 15	hydrogen peroxide catabolic process
8	1e-03	3 / 71	response to endoplasmic reticulum stress
9	3e-03	2 / 29	odontogenesis
10	4e-03	2 / 30	renal water homeostasis
11	4e-03	2 / 32	protein peptidyl-prolyl isomerization
12	4e-03	2 / 12	protein N-linked glycosylation via asparagine
13	6e-03	3 / 125	protein glycosylation
14	7e-03	2 / 43	positive regulation of cell death
15	9e-03	2 / 48	response to hydrogen peroxide

Cancer Rank	p-value	#in/all	Geneset
1	0.02	0 / 11	LIU_PROSTATE_CANCER_UP
2	0.04	1 / 14	GENTLES_modul13
3	0.04	1 / 15	WANG_ER_UP
4	0.05	1 / 16	GENTLES_modul6
5	0.16	0 / 15	RHODES_CANCER_META_SIGNATURE
6	0.31	0 / 14	LIU_PROSTATE_CANCER_DN
7	0.43	2 / 480	Lembecke_colonc_inflammation
8	0.43	1 / 186	SPANG_LPS-index2
9	0.72	1 / 409	Lembecke_Normal_vs_Adenoma
10	1.00	0 / 15	RHODES_UNDIFFERENTIATED_CANCER
11	1.00	0 / 16	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN
12	1.00	0 / 14	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
13	1.00	0 / 12	LIU_BREAST_CANCER
14	1.00	0 / 14	LIU_COMMON_CANCER_GENES
15	1.00	0 / 16	LIU_LIVER_CANCER

CC Rank	p-value	#in/all	Geneset
1	2e-10	18 / 1035	endoplasmic reticulum
2	6e-09	14 / 683	endoplasmic reticulum membrane
3	1e-05	23 / 3270	integral component of membrane
4	5e-04	27 / 5339	membrane
5	5e-04	3 / 53	rough endoplasmic reticulum
6	7e-04	2 / 13	endocytic vesicle lumen
7	8e-04	5 / 241	endoplasmic reticulum lumen
8	3e-03	3 / 96	melanosome
9	2e-02	5 / 337	perinuclear region of cytoplasm
10	2e-02	2 / 77	RCR1 complex
11	2e-02	2 / 77	specific granule membrane
12	2e-02	2 / 79	integral component of endoplasmic reticulum membrane
13	3e-02	1 / 10	PRC1 complex
14	4e-02	1 / 13	exosome (RNase complex)
15	5e-02	2 / 116	blood microparticle

Chr Rank	p-value	#in/all	Geneset
1	0.003	5 / 333	Chr 22
2	0.004	7 / 689	Chr 3
3	0.005	3 / 230	Chr 16
4	0.244	4 / 833	Chr 19
5	0.308	2 / 369	Chr 20
6	0.323	2 / 382	Chr 15
7	0.331	3 / 669	Chr 6
8	0.357	3 / 700	Chr 12
9	0.404	3 / 736	Chr 11
10	0.442	2 / 492	Chr 9
11	0.535	2 / 585	Chr 7
12	0.820	1 / 554	Chr 17
13	0.912	1 / 512	Chr 15
14	0.921	2 / 1325	Chr 1
15	1.000	0 / 490	Chr 10

Chromatin states Rank	p-value	#in/all	Geneset
1	3e-05	30 / 5620	TssF_Colon
2	1e-04	23 / 3803	6_EnhG_Fibroblasts
3	4e-04	16 / 1203	4enhA_Colon
4	4e-04	18 / 2704	4_TxTrans_Fibroblasts
5	5e-04	21 / 3524	Regulatory cells peripheral blood_6_EnhG
6	6e-04	32 / 7165	Tx_Colon
7	6e-04	31 / 6798	TxWk_Colon
8	1e-03	24 / 4672	TssD2_Colon
9	1e-03	16 / 2204	1xFlnk_ESC_Mesoderm
10	2e-03	34 / 8245	Regulatory cells peripheral blood_2_TssAFlnk
11	2e-03	36 / 9146	3_TssF_Skeletal_Muscle
12	2e-03	16 / 2563	Mid_Frontal_Lobe_ZNF
13	2e-03	21 / 3838	Thelper cells peripheral blood_6_EnhG
14	2e-03	33 / 7957	Thelper cells peripheral blood_2_TssAFlnk
15	3e-03	35 / 8816	Thelper cells peripheral blood_2_TssAFlnk

Colon Cancer Rank	p-value	#in/all	Geneset
1	0.01	2 / 60	Marisa_CRC-cluster-g
2	0.04	7 / 1083	LaPointe_mucosa-position_kmeans_J_cecum_colon_ascending_colon_transv
3	0.05	8 / 1354	LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP_a
4	0.10	2 / 172	Pentrack_CRC_TCGA_corr_U_msi-h_UP
5	0.14	1 / 53	Pentrack_CRC_TCGA_corr_N_msi-h_DN
6	0.24	3 / 561	Pentrack_CRC_TCGA_group_over_C_normal_DN
7	0.39	1 / 164	Lembecke_TCGA_meth_kmeans_B_Cluster4_DN
8	0.40	2 / 452	Lembecke_TCGA_expr_kmeans_L_CIMP_H_UP_Cluster4_DN
9	0.43	6 / 1729	LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_t
10	0.43	1 / 103	Kosinski_top-crypt-long-list
11	0.43	2 / 483	Lembecke_TCGA_expr_kmeans_H_CIMP_H_UP_Cluster3_DN
12	0.48	4 / 1166	LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_cecum_colon_a
13	0.48	2 / 532	LaPointe_mucosa-position_kmeans_B_ascending_colon_transverse_colon_U
14	0.54	2 / 589	Lembecke_TCGA_expr_kmeans_E_CIMP_H_UP_Cluster4_DN
15	0.54	1 / 255	Kosinski_top-crypt-long-list

Glioma Rank	p-value	#in/all	Geneset
1	0.03	1 / 9	Colman_survival_robust
2	0.03	2 / 85	Scov_0.999_Sturm_E2_IDH_DN
3	0.04	1 / 15	Mukasa_UP_in_GBM
4	0.10	1 / 34	WILLSCHER_GBM_proteomics_wtOnly_SpotH
5	0.13	1 / 35	Garoweto_LGG_EPL_subclass
6	0.10	1 / 35	Colman_survival_associated
7	0.19	1 / 69	Hopp_Sturm_GBM_Epi3_D1_IDH_UP_adult_fetus_DN
8	0.21	2 / 282	WILLSCHER_GBM_Verhaak-PNwt & CL_up
9	0.21	1 / 78	Hopp_Sturm_GBM_Epi3_A1_Mesenchymal_UP
10	0.21	1 / 87	Chenmen_hypermethylated_in_secondary_glioblastoma
11	0.26	1 / 100	WILLSCHER_GBM_proteomics_wtOnly_SpotB
12	0.26	2 / 330	UP
13	0.26	1 / 101	Hopp_Sturm_GBM_Epi3_E_G34_UP
14	0.39	5 / 1343	Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
15	0.39	2 / 447	Scov_0.999_Sturm_E4_Mesenchymal_RTK1_PDGFRFA_DN

GSEA C2 Rank	p-value	#in/all	Geneset
1	9e-13	9 / 75	TARTE_PLASMA_CELL_VS_B_LYMPHOCTYTE_UP
2	3e-11	11 / 216	PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_UP
3	2e-09	13 / 518	MILI_PSEUDOPODIA_HAPTOTAXIS_DN
4	1e-07	5 / 41	MORI_PLASMA_CELL_UP
5	4e-07	4 / 68	REACTOME_UNFOLDED_PROTEIN_RESPONSE
6	6e-05	4 / 71	REACTOME ASPARAGINE_N_LINKED_GLYCOSYLATION
7	1e-04	7 / 384	MILI_PSEUDOPODIA_CHEMOTAXIS_DN
8	2e-04	3 / 37	KEGG_N_GLYCAN_BIOSYNTHESIS
9	2e-04	2 / 8	RODRIGUES_THYROID_CARCINOMA_UP
10	3e-04	3 / 41	REACTOME_ACTIVATION_OF_CHAPERONE_GENES_BY_XBP1S
11	3e-04	4 / 110	REACTOME DIABETES_PATHWAYS
12	4e-04	2 / 10	REACTOME PASSIVE_TRANSPORT_BY_AQUAPORINS
13	4e-04	6 / 325	REACTOME METABOLISM_OF_PROTEINS
14	4e-04	4 / 119	YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_14
15	6e-04	2 / 12	BIOCARTA_AHSF_PATHWAY

LM Rank	p-value	#in/all	Geneset
1	0.004	3 / 106	HALLMARK_UNFOLDED_PROTEIN_RESPONSE
2	0.061	2 / 133	HALLMARK_DNA_REPAIR
3	0.075	2 / 149	HALLMARK_UV_RESPONSE_UP
4	0.094	2 / 170	HALLMARK_IL2_STATS_SIGNALING
5	0.112	1 / 39	HALLMARK_PANCREAS_BETA_CELLS
6	0.13	1 / 192	HALLMARK_MTORC1_SIGNALING
7	0.116	2 / 193	HALLMARK_HEME_METABOLISM
8	0.117	2 / 194	HALLMARK_ESTROGEN_RESPONSE_EARLY
9	0.346	1 / 139	HALLMARK_FATTY_ACID_METABOLISM
10	0.441	1 / 190	HALLMARK_MYC_TARGETS_V1
11	0.451	1 / 191	HALLMARK_P53_PATHWAY
12	0.446	1 / 193	HALLMARK_ESTROGEN_RESPONSE_LATE
13	0.447	1 / 194	HALLMARK_MYOGENESIS
14	0.447	1 / 194	HALLMARK_KRAS_SIGNALING_UP
15	0.451	1 / 196	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION

Immunome Rank	p-value	#in/all	Geneset
1	0.05	1 / 18	Angelova Immune-metagene-pDC
2	0.18	1 / 67	Angelova Immune-metagene-T-cells
3	1.00	0 / 13	Angelova Immune-metagene-activated_B-cells
4	1.00	0 / 26	Angelova Immune-metagene-activated_CD4
5	1.00	0 / 19	Angelova Immune-metagene-activated_CD8
6	1.00	0 / 21	Angelova Immune-metagene-central_memory_CD4
7	1.00	0 / 17	Angelova Immune-metagene-central_memory_CD8
8	1.00	0 / 7	Angelova Immune-metagene-cytotoxic_cells
9	1.00	0 / 25	Angelova Immune-metagene-DC
10	1.00	0 / 12	Angelova Immune-metagene-effector_memory_CD4
11	1.00	0 / 32	Angelova Immune-metagene-effector_memory_CD8
12	1.00	0 / 14	Angelova Immune-metagene-eosinophil
13	1.00	0 / 19	Angelova Immune-metagene-iDC
14	1.00	0 / 13	Angelova Immune-metagene-immature_B-cells
15	1.00	0 / 11	Angelova Immune-metagene-macrophages

Lifestyle Rank	p-value	#in/all	Geneset
1	1	0 / 62	DUMEAUX_Smoking enriched genes
2	1	0 / 10	DUMEAUX_Smoking literature genes up
3	1	0 / 4	DUMEAUX_Exercise non smoker literature enriched genes
4	1	0 / 5	DUMEAUX_Estrogen related in smokers literature genes up
5	1	0 / 7	DUMEAUX_Estrogen related in non smokers literature genes up
6	1	0 / 7	DUMEAUX_Hormon therapy in non smokers literature genes up
7	1	0 / 9	DUMEAUX_Monocytes in smokers literature genes up
8	1	0 / 16	DUMEAUX_Red blood cells in non smokers literature genes up
9	1	0 / 12	DUMEAUX_Women normal BMI literature genes up
10	1	0 / 22	DUMEAUX_High bmi enriched genes
11	1	0 / 22	DUMEAUX_Fasting enriched genes
12	1	0 / 150	Homuth_BMI-associated-genes_UP
13	1	0 / 210	Homuth_BMI-associated-genes_DN
14	1	0 / 14	Huan_blood-pressure_SBP-signature
15	1	0 / 13	Huan_blood-pressure_DBP-signature

Lymphoma Rank	p-value	#in/all	Geneset
1	1e-12	9 / 77	TARTE_Plasma cell signature
2	3e-02	2 / 85	Aukema_BCL2_DN_BCL6_UP
3	4e-02	2 / 102	ROSLOWSKI_blue total
4	5e-02	22 / 5404	HOPP_Strong_enhancer
5	7e-02	6 / 955	SPANG_BCR_UP
6	1e-01	17 / 4261	HOPP_Txn_transition
7	1e-01	1 / 45	SPANG_BUFF_9hrs_DN
8	1e-01	1 / 56	LENZ_Stromal_signature_2
9	2e-01	1 / 56	HOPP_Lymphoma_Epi1_with_zentr_iv_B_cell_MM_UP
10	2e-01	1 / 57	SPANG_LPS_6hrs_DN
11	2e-01	20 / 5529	HOPP_Txn_elongation
12	2e-01	20 / 5682	HOPP_Weak_promoter
13	3e-01	4 / 305	SPANG_BCR_DN
14	3e-01	20 / 5908	HOPP_Active_promoter
15	3e-01	2 / 378	TARTE_Mature plasma cell signature

Melanoma Rank	p-value	#in/all	Geneset
1	0.07	1 / 24	Gerami_melanoma-metastatic-risk_DN
2	0.11	2 / 189	Tirosh_genes_preferentially_expressed_by_Tregs
3	0.15	2 / 236	Gerber_wtwt_group3-specific
4	0.20	1 / 75	Tirosh_Endothelial-cell specific genes-melanoma
5	0.21	1 / 78	Tirosh_CAF-cell specific genes
6	0.21	1 / 79	Tirosh_core_cycling_genes_in_low_and_high-proliferation_melanoma
7	0.22	1 / 83	TCGA_melanoma_immune_high
8	0.25	1 / 185	Tirosh_genes_from_malignant_cells_in_Mel79-melanoma
9	0.45	2 / 497	Gerber_wtwt_melanoma-cells-SpotD
10	1.00	0 / 17	Hugo_melanoma-all-MET_UP
11	1.00	0 / 37	Hugo_melanoma-all-MET_DN
12	1.00	0 / 38	Hugo_melanoma-BRAFmut-MET_UP
13	1.00	0 / 15	Hugo_melanoma-BRAFmut-MET_DN
14	1.00	0 / 16	Hugo_melanoma-all-LEF1_UP
15	1.00	0 / 8	Hugo_melanoma-BRAFmut-LEF1_UP

MF Rank	p-value	#in/all	Geneset
1	2e-04	4 / 95	isomerase activity
2	4e-04	2 / 10	water channel activity
3	1e-03	2 / 16	protein disulfide isomerase activity
4	2e-03	2 / 23	channel activity
5	2e-03	2 / 23	peroxidase activity
6	4e-03	2 / 30	oxygen binding
7	4e-03	2 / 32	peptidyl-prolyl cis-trans isomerase activity
8	4e-02	1 / 12	aldehyde dehydrogenase (NAD) activity
9	4e-02	1 / 12	calcium-transferring ATPase activity
10	4e-02	1 / 12	misfolded protein binding
11	4e-02	2 / 103	heme binding
12	4e-02	1 / 14	FK506 binding
13	5e-02	2 / 13	iron ion binding
14	5e-02	1 / 16	3'-5'-exoribonuclease activity
15	5e-02	1 / 16	AU-rich element binding

mikRNA target Rank	p-value	#in/all	Geneset
1	0.003	2 / 26	hsa-miR-1226
2	0.011	3 / 155	hsa-miR-129-5p
3	0.014	2 / 80	hsa-miR-548b-3p
4	0.015	2 / 62	hsa-miR-571
5	0.032	2 / 93	hsa-miR-605
6	0.045	2 / 112	hsa-miR-218
7	0.060	2 / 132	hsa-miR-298
8	0.079	1 / 27	hsa-miR-589
9	0.089	1 / 28	hsa-miR-296-5p
10	0.104	1 / 36	hsa-miR-412
11	0.117	1 / 41	hsa-miR-302b*
12	0.123	3 / 404	hsa-miR-103
13	0.123	3 / 405	hsa-miR-107
14	0.128	2 / 205	hsa-miR-548g
15	0.128	1 / 45	hsa-miR-379

Pneumonia Rank	p-value	#in/all	Geneset
1	0.1	1 / 37	Sweeney_viral_up

D-Cluster

Spot Summary: F

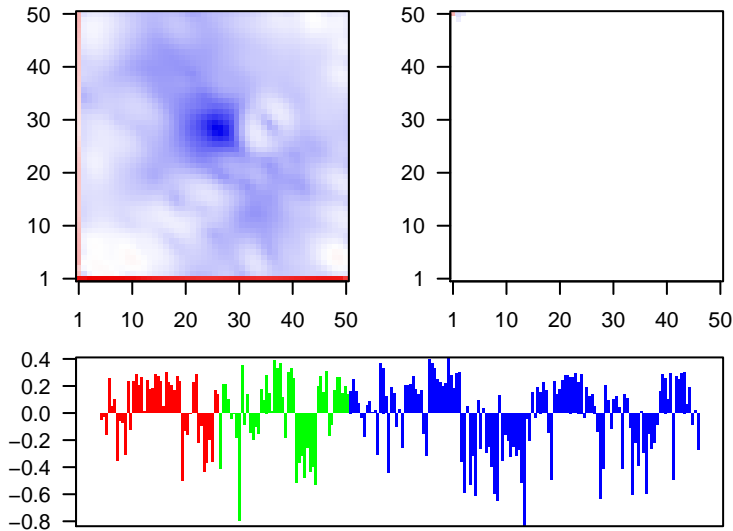
metagenes = 4
genes = 141

<r> metagenes = 1
<r> genes = 0.48
beta: r2= 14.81 / log p= -Inf

samples with spot = 39 (17.6 %)
mBL : 7 (15.9 %)
intermediate : 11 (22.9 %)
non-mBL : 21 (16.3 %)

Overview Map

Spot

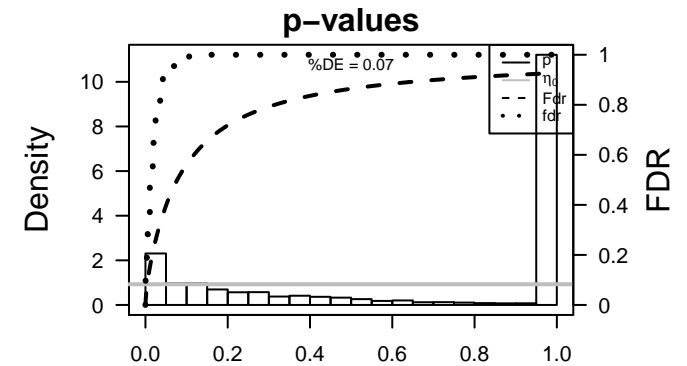


Spot Genelist

Rank	ID	max e	r	min e	Description
1	207686_s_at	1.62	-1.44	0.66	CASP8 caspase 8 [Source:HGNC Symbol;Acc:HGNC:1509]
2	211708_s_at	1.43	-1.2	0.57	SCD stearyl-CoA desaturase [Source:HGNC Symbol;Acc:HGNC:1509]
3	214971_s_at	1.4	-1.95	0.74	ST6GAL5T6 beta-galactoside alpha-2,6-sialyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:1509]
4	204429_s_at	1.31	-2.03	0.45	SLC2A5 solute carrier family 2 member 5 [Source:HGNC Symbol;Acc:HGNC:1509]
5	209629_s_at	1.29	-1.56	0.66	NXT2 nuclear transport factor 2 like export factor 2 [Source:HGNC Symbol;Acc:HGNC:1509]
6	203676_at	1.21	-1.22	0.75	GNS glucosamine (N-acetyl)-6-sulfatase [Source:HGNC Symbol;Acc:HGNC:1509]
7	203472_s_at	1.21	-0.99	0.6	SLCO2B2 solute carrier organic anion transporter family member 2B1 [Source:HGNC Symbol;Acc:HGNC:1509]
8	206925_at	1.2	-1.29	0.56	ST8SIA4 ST8 alpha-N-acetylneuraminidase alpha-2,8-sialyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:1509]
9	219558_at	1.19	-1.83	0.81	ATP13A3ATPase 13A3 [Source:HGNC Symbol;Acc:HGNC:24113]
10	201942_s_at	1.19	-0.92	0.65	CPD carboxypeptidase D [Source:HGNC Symbol;Acc:HGNC:2301]
11	216100_s_at	1.17	-1.67	0.66	TOR1AIP2rsin 1A interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:1509]
12	214390_s_at	1.13	-1.23	0.53	BCAT1 branched chain amino acid transaminase 1 [Source:HGNC Symbol;Acc:HGNC:1509]
13	202226_s_at	1.1	-1.78	0.59	CRK CRK proto-oncogene, adaptor protein [Source:HGNC Symbol;Acc:HGNC:1509]
14	210594_x_at	1.1	-1.23	0.56	MPZL1 myelin protein zero like 1 [Source:HGNC Symbol;Acc:HGNC:1509]
15	215509_s_at	1.08	-1.84	0.71	BUB1 BUB1 mitotic checkpoint serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:1509]
16	204864_s_at	1.08	-1.21	0.73	IL6ST interleukin 6 signal transducer [Source:HGNC Symbol;Acc:HGNC:1509]
17	211540_s_at	1.07	-1.55	0.72	RB1 RB transcriptional corepressor 1 [Source:HGNC Symbol;Acc:HGNC:1509]
18	215286_s_at	1.06	-1.35	0.66	PHTF2 putative homeodomain transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:1509]
19	210756_s_at	1.02	-1.46	0.59	NOTCH2notch 2 [Source:HGNC Symbol;Acc:HGNC:7882]
20	214336_s_at	1.01	-1.08	0.8	COPA coatomer protein complex subunit alpha [Source:HGNC Symbol;Acc:HGNC:1509]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-55	52 / 282	Gliom WILLSCHEER_GBM_Verhaak-PNwt & CL_up
2	2e-38	33 / 136	Refer Chaussabel_2_9_Cytoskeleton
3	6e-32	40 / 372	GSE# SENESE_HDAC1_TARGETS_UP
4	4e-28	38 / 405	GSE# SENESE_HDAC3_TARGETS_UP
5	1e-18	99 / 5529	Lymp# HOPP_Txn_elongation
6	7e-18	27 / 344	GSE# THUM_SYSTOLIC_HEART_FAILURE_UP
7	1e-17	86 / 4261	Lymp# HOPP_Txn_transition
8	2e-15	25 / 355	Refer WIRTH_Immune system
9	1e-14	16 / 118	GSE# AZARE_NEOPLASTIC_TRANSFORMATION_BY_STAT3_UP
10	2e-13	95 / 5908	Lymp# HOPP_Active_promoter
11	2e-13	28 / 564	GSE# RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_UP
12	2e-10	38 / 1338	GSE# DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
13	4e-10	93 / 6368	Color LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
14	8e-10	11 / 92	GSE# SENESE_HDAC2_TARGETS_UP
15	4e-09	13 / 163	GSE# ONDER_CDH1_TARGETS_1_DN
16	4e-09	85 / 5682	Lymp# HOPP_Weak_promoter
17	3e-08	19 / 448	miRN hsa-miR-20b
18	4e-08	37 / 1550	GSE# PILON_KLF1_TARGETS_DN
19	4e-08	17 / 361	miRN hsa-miR-130b
20	5e-08	8 / 57	GSE# JL_RESPONSE_TO_FSH_DN
21	7e-08	6 / 24	GSE# AZARE_STAT3_TARGETS
22	9e-08	13 / 213	GSE# THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_DN
23	2e-07	32 / 1312	GSE# PUJANA_ATM_PCC_NETWORK
24	2e-07	25 / 854	Color LaPointe_mucosa-position_kmeans_A_ascending_colon_UP
25	3e-07	14 / 275	miRN hsa-miR-590-3p
26	3e-07	33 / 1390	GSE# GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_DN
27	4e-07	15 / 329	miRN hsa-let-7b
28	4e-07	9 / 102	Lymp# ROSOLOWSKI_blue total
29	6e-07	24 / 830	GSE# DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
30	8e-07	13 / 257	GSE# OSWALD_HEMATOPOIETIC_STEM_CELL_IN_COLLAGEN_GEL_DN
31	9e-07	61 / 3805	CC cytosol
32	9e-07	77 / 5404	Lymp# HOPP_Strong_enhancer
33	1e-06	21 / 673	GSE# SCHLOSSER_SERUM_RESPONSE_DN
34	1e-06	16 / 403	miRN hsa-miR-106b
35	1e-06	18 / 509	GSE# RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_UP
36	1e-06	10 / 147	GSE# LU_AGING_BRAIN_DN
37	1e-06	14 / 314	miRN hsa-miR-372
38	1e-06	8 / 87	miRN hsa-miR-449b
39	1e-06	11 / 189	GSE# SENESE_HDAC1_AND_HDAC2_TARGETS_UP
40	2e-06	17 / 468	GSE# ENK_UV_RESPONSE_KERATINOCYTE_DN



Aging Rank	p-value	#in/all	Geneset
1	0.2	2 / 92	HORVATH_aging_genes_meth_DOWN
2	0.3	1 / 107	HORVATH_aging_genes_meth_UP
3	1.0	0 / 47	TSCHECHENDORFF_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	

BP Rank	p-value	#in/all	Geneset
1	5e-06	6 / 47	learning or memory
2	2e-05	16 / 502	protein transport
3	2e-05	7 / 91	mRNA transport
4	2e-04	3 / 13	striated muscle cell differentiation
5	3e-04	14 / 507	protein phosphorylation
6	9e-04	4 / 46	activation of MAPKK activity
7	1e-03	4 / 48	blood vessel development
8	1e-03	3 / 24	positive regulation of muscle cell differentiation
9	2e-03	5 / 91	G1/S transition of mitotic cell cycle
10	2e-03	4 / 65	protein import into nucleus
11	2e-03	4 / 58	activation of protein kinase activity
12	3e-03	3 / 32	positive regulation of neuron death
13	3e-03	3 / 32	regulation of cholesterol biosynthetic process
14	3e-03	4 / 66	Ras protein signal transduction
15	4e-03	2 / 10	Notch receptor processing, ligand-dependent

Cancer Rank	p-value	#in/all	Geneset
1	0.003	9 / 317	SPANG_BCL6-index2
2	0.004	5 / 113	PanCan_Driver_Gene_geneset_nanostring
3	0.007	2 / 14	BENTINK_src2
4	0.009	2 / 16	GENTLES_modul16
5	0.019	1 / 2	GENTLES_modul8
6	0.049	4 / 147	PanCan_MAPK_geneset_nanostring
7	0.085	0 / 16	SOTIRIOU_BREAK1_CANCER_GRADE_1_VS_3_DN
8	0.098	1 / 11	GENTLES_modul14
9	0.106	1 / 12	GENTLES_modul12
10	0.121	3 / 130	PanCan_CC+Apop_geneset_nanostring
11	0.123	1 / 14	SOTIRIOU_BREAK1_CANCER_GRADE_1_VS_3_UP
12	0.123	1 / 14	GENTLES_modul10
13	0.131	1 / 15	BEN-PORATH_UP
14	0.131	1 / 15	GENTLES_modul2
15	0.155	1 / 18	PanCan_Notch_geneset_nanostring

CC Rank	p-value	#in/all	Geneset
1	9e-07	61 / 3805	cytosol
2	3e-06	69 / 4701	cytoplasm
3	2e-04	14 / 503	cytoplasmic vesicle
4	5e-04	5 / 70	nuclear pore
5	5e-04	7 / 149	nuclear envelope
6	5e-04	8 / 196	nuclear membrane
7	9e-04	4 / 46	clathrin-coated vesicle membrane
8	2e-03	34 / 2239	extracellular exosome
9	3e-03	5 / 101	kinetochore
10	3e-03	58 / 4579	nucleus
11	4e-03	11 / 462	cell surface
12	5e-03	11 / 479	Golgi membrane
13	5e-03	3 / 38	SNARE complex
14	6e-03	2 / 13	SWI/SNF complex
15	7e-03	6 / 150	actin cytoskeleton

Chr Rank	p-value	#in/all	Geneset
1	0.03	10 / 554	Chr 5
2	0.07	18 / 1325	Chr 1
3	0.11	6 / 14	Chr 14
4	0.29	8 / 669	Chr 6
5	0.33	8 / 700	Chr 12
6	0.37	9 / 832	Chr 2
7	0.37	2 / 139	Chr 21
8	0.41	8 / 756	Chr 11
9	0.44	8 / 777	Chr 17
10	0.46	7 / 689	Chr 3
11	0.48	5 / 490	Chr 10
12	0.49	5 / 492	Chr 9
13	0.51	2 / 184	Chr 18
14	0.64	5 / 585	Chr 7
15	0.66	4 / 480	Chr 4

Chromatin states Rank	p-value	#in/all	Geneset
1	4e-23	106 / 5716	Bcells_peripheral_blood_4_Tx
2	3e-22	108 / 6099	HSC_4_Tx
3	4e-22	101 / 5527	regulatory cells peripheral_blood_4_Tx
4	2e-19	102 / 5766	natural killer cells peripheral_blood_4_Tx
5	1e-18	101 / 5738	monocytes_peripheral_blood_4_Tx
6	1e-18	110 / 5753	Tcells_peripheral_blood_4_Tx
7	8e-18	110 / 7078	Bcells_peripheral_blood_5_TxWk
8	5e-17	104 / 6386	4_Tx_ESC_Mesoderm
9	1e-16	107 / 6839	CD8+ naive cells peripheral_blood_5_TxWk
10	1e-16	97 / 5601	Thelper cells peripheral_blood_4_Tx
11	1e-16	87 / 4528	T CD8+ naive cells peripheral_blood_4_Tx
12	4e-16	100 / 6034	5_Tx_Fibroblasts
13	5e-15	108 / 7420	Tcells_peripheral_blood_1_TssA
14	8e-15	103 / 6643	5_Tx_Skeletal_Muscle
15	2e-14	101 / 6466	5_Tx_MSC_Adipocyte

Colon Cancer Rank	p-value	#in/all	Geneset
1	4e-10	93 / 6368	LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP_
2	2e-07	25 / 854	LaPointe_mucosa-position_kmeans_A_ascending_colon_UP
3	2e-06	27 / 1083	LaPointe_mucosa-position_kmeans_J_cecum_colon_ascending_colon_transv
4	6e-04	25 / 1354	LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP_a
5	1e-03	58 / 483	LaPointe_mucosa-position_kmeans_L_transverse_colon_cecum_colon_DN
6	1e-03	19 / 958	LaPointe_mucosa-position_kmeans_D_transverse_colon_UP
7	2e-03	28 / 1729	LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_t
8	7e-03	2 / 14	TGCA_Mutated-in-CRC_hypermethylated
9	2e-02	18 / 1174	LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse_colo
10	4e-02	1 / 4	Juehling_MSI-enriched-in-8-to-9
11	4e-02	17 / 1166	LaPointe_mucosa-position_kmeans_K_ascending_colon_UP_cecum_colon_a
12	5e-02	13 / 848	LaPointe_mucosa-position_kmeans_O_transverse_colon_UP_
13	5e-02	1 / 6	Juehling_dMMR-secondary-mutations_Signal_transduction
14	5e-02	1 / 6	Juehling_HNPCC-mutated-in-5
15	1e-01	1 / 11	KIM_MSI-in-CRC

Glioma Rank	p-value	#in/all	Geneset
1	5e-55	52 / 282	WILLSCHER_GBM_Verhaak-PNwt & CL_up
2	2e-03	14 / 614	Sturm_GBM_Meth_overexpression_E_G34_UP
3	4e-02	4 / 139	WILLSCHER_GBM_proteomics_wtOnly_Differencelist
4	7e-02	20 / 1523	Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
5	7e-02	18 / 1343	Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
6	8e-02	5 / 242	Scov_0.5_Sturm_C1_IDH_DN
7	8e-02	5 / 246	Scov_0.001_Sturm_MI_IDH_RTK1_PDGFR4_DN
8	1e-01	1 / 11	KIM amplified & overexpressed in LTS
9	1e-01	1 / 11	Sturm_GBM_Meth_overexpression_G_IDH_UP
10	1e-01	2 / 58	Stuehler_proteins_up_in_STS
11	1e-01	1 / 12	Mukasa_UP_in_Oligodendrogloma_with_1intact
12	1e-01	1 / 13	Christensen_hypomethylated_in_grade2_astrocytoma
13	1e-01	1 / 13	Christensen_hypomethylated_in_grade2_oligoastrocytoma
14	1e-01	1 / 13	Christensen_hypomethylated_in_grade2_oligoastrocytoma
15	1e-01	1 / 13	Christensen_hypomethylated_in_grade3_oligoastrocytoma

GSEA C2 Rank	p-value	#in/all	Geneset
1	6e-32	40 / 372	SENSE_HDAC1_TARGETS_UP
2	4e-28	38 / 405	SENSE_HDAC3_TARGETS_UP
3	7e-18	27 / 344	THUM_SYSTOLIC_HEART_FAILURE_UP
4	1e-14	16 / 118	ANGIOGENESIS_PLASTIC_TRANSFORMATION_BY_STAT3_UP
5	2e-14	28 / 564	RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_UP
6	2e-10	38 / 1338	DLIA_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
7	8e-10	11 / 92	SENSE_HDAC2_TARGETS_UP
8	4e-09	13 / 163	ONDER_CDH1_TARGETS_1_DN
9	4e-08	37 / 1550	PILON_KLF1_TARGETS_DN
10	5e-08	8 / 57	J1_RESPONSE_TO_FSH_DN
11	7e-08	6 / 24	AZARE_STAT3_TARGETS
12	9e-08	13 / 213	THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_DN
13	2e-07	32 / 1312	PUJANA_ATM_PCC_NETWORK
14	3e-07	33 / 1390	GRASSMANN_APOPTOSIS_BY_DOXORUBICIN_DN
15	6e-07	24 / 830	DA COSTA_UV_RESPONSE_VIA_ERCC3_DN

LM Rank	p-value	#in/all	Geneset
1	0.002	5 / 94	HALLMARK_PROTEIN_SIGNALING
2	0.002	7 / 192	HALLMARK_MTORC1_SIGNALING
3	0.012	4 / 96	HALLMARK_ANDROGEN_RESPONSE
4	0.013	5 / 149	HALLMARK_UV_RESPONSE_UP
5	0.023	5 / 173	HALLMARK_MITOTIC_SPINDLE
6	0.029	5 / 129	HALLMARK_NOTCH_SIGNALING
7	0.036	2 / 195	HALLMARK_G2M_CHECKPOINT
8	0.043	4 / 141	HALLMARK_UV_RESPONSE_DN
9	0.052	4 / 150	HALLMARK_APOPTOSIS
10	0.103	4 / 191	HALLMARK_P53_PATHWAY
11	0.108	2 / 58	HALLMARK_CHOLESTEROL_HOMEOSTASIS
12	0.108	4 / 194	HALLMARK_MYOGENESIS
13	0.158	2 / 76	HALLMARK_INTERFERON_ALPHA_RESPONSE
14	0.188	2 / 85	HALLMARK_IL6_JAK_STAT3_SIGNALING
15	0.202	3 / 166	HALLMARK_INTERFERON_GAMMA_RESPONSE

Immunome Rank	p-value	#in/all	Geneset
1	0.09	1 / 10	Angelova Immune-metagenes-TFH
2	0.11	1 / 13	Angelova Immune-metagenes-immature_B-cells
3	0.12	1 / 14	Angelova Immune-metagenes-eosinophil
4	0.16	1 / 19	Angelova Immune-metagenes-activated_CD8
5	0.16	1 / 19	Angelova Immune-metagenes-IDC
6	0.32	1 / 32	Angelova Immune-metagenes-TGD
7	0.34	1 / 45	Angelova Immune-metagenes-MDSC
8	1.00	0 / 13	Angelova Immune-metagenes-activated_B-cells
9	1.00	0 / 26	Angelova Immune-metagenes-activated_CD4
10	1.00	0 / 21	Angelova Immune-metagenes-central_memory_CD4
11	1.00	0 / 17	Angelova Immune-metagenes-central_memory_CD8
12	1.00	0 / 7	Angelova Immune-metagenes-cytotoxic_cells
13	1.00	0 / 25	Angelova Immune-metagenes-DC
14	1.00	0 / 12	Angelova Immune-metagenes-effector_memory_CD4
15	1.00	0 / 32	Angelova Immune-metagenes-effector_memory_CD8

Lifestyle Rank	p-value	#in/all	Geneset
1	0.003	7 / 210	Homuth_BMI-associated-genes_DN
2	0.186	1 / 22	DUMEAUX_High bmi enriched genes
3	0.186	1 / 22	DUMEAUX_Fasting enriched genes
4	1.000	0 / 62	DUMEAUX_Smoking enriched genes
5	1.000	0 / 10	DUMEAUX_Smoking literature genes up
6	1.000	0 / 10	DUMEAUX_Exercise non smoker literature enriched genes
7	1.000	0 / 5	DUMEAUX_Estrogen related in smokers literature genes up
8	1.000	0 / 7	DUMEAUX_Estrogen related in non smokers literature genes up
9	1.000	0 / 7	DUMEAUX_Hormon therapy in non smokers literature genes up
10	1.000	0 / 9	DUMEAUX_Monocytes in smokers literature genes up
11	1.000	0 / 12	DUMEAUX_Red blood cells in non smokers literature genes up
12	1.000	0 / 12	DUMEAUX_Women normal BMI literature genes up
13	1.000	0 / 150	Homuth_BMI-associated-genes_UP
14	1.000	0 / 14	Huan_blood-pressure_SBP-signature
15	1.000	0 / 13	Huan_blood-pressure_DBP-signature

Lymphoma Rank	p-value	#in/all	Geneset
1	1e-18	99 / 5529	HOPP_Ixn_elongation
2	1e-17	86 / 4261	HOPP_Ixn_transition
3	2e-13	93 / 5908	HOPP_Active_promoter
4	4e-09	85 / 5682	HOPP_Weak_promoter
5	4e-07	9 / 102	ROSLOWSKI_blue total
6	9e-07	77 / 5404	HOPP_Strong_enhancer
7	3e-04	20 / 906	SPANG_BCR_DN
8	7e-04	58 / 3357	HOPP_Weak_txn
9	7e-04	60 / 4559	HOPP_Weak_enhancer
10	1e-03	19 / 955	SPANG_BCR_UP
11	4e-03	28 / 1814	HOPP_Repetitive
12	6e-03	7 / 234	Hopp_Lymphoma_Epi1_no_zentr_6_MCL_DN
13	4e-03	2 / 34	HOPP_B-cell_signature
14	5e-02	5 / 213	SPANG_IL21_DN
15	6e-02	5 / 227	SPANG_IL21_UP

Melanoma Rank	p-value	#in/all	Geneset
1	9e-04	4 / 46	Tirosh_top50 correlated genes PC5
2	5e-03	7 / 222	Gerber_wtwt_melanoma-cells-SpotF
3	7e-03	3 / 41	Tirosh_top50 correlated genes PC3
4	7e-03	11 / 497	Gerber_wtwt_melanoma-cells-SpotD
5	7e-02	5 / 236	Gerber_wtwt_group3-specific
6	8e-02	2 / 51	Tirosh_genes from CD8 T-cells in Mel179-melanoma
7	9e-02	4 / 185	Tirosh_genes from malignant cells in Mel179-melanoma
8	3e-01	3 / 204	Larberg_dedifferentiation_down
9	3e-01	1 / 38	Hugo_melanoma-BRAFmut-MET_UP
10	3e-01	1 / 39	Tirosh_melanoma specific genes
11	3e-01	1 / 44	Tirosh_top50 correlated genes PC2
12	3e-01	4 / 319	Gerber_wtwt_melanoma-cells-SpotA
13	1 / 47	1 / 47	Larberg_dedifferentiation_down
14	4e-01	3 / 230	Gerber_wtwt_melanoma-cells-SpotC
15	5e-01	1 / 65	Harbst_melanoma_highgrade_up

MF Rank	p-value	#in/all	Geneset
1	1e-04	3 / 11	RNA stem-loop binding
2	3e-04	92 / 7864	protein binding
3	3e-04	3 / 21	mitogen-activated protein kinase binding
4	1e-03	10 / 331	protein serine/threonine kinase activity
5	2e-03	3 / 28	Ran GTPase binding
6	3e-03	11 / 437	protein kinase activity
7	3e-03	3 / 31	SNAP receptor activity
8	5e-03	23 / 1402	nucleotide binding
9	6e-03	2 / 13	mitogen-activated protein kinase kinase binding
10	6e-03	2 / 13	protein tyrosine kinase binding
11	6e-03	2 / 13	sulfuric ester hydrolase activity
12	6e-03	20 / 1185	ATP binding
13	7e-03	12 / 573	kinase activity
14	7e-03	2 / 14	lamin binding
15	7e-03	2 / 14	MAP kinase kinase activity

mikNA target Rank	p-value	#in/all	Geneset
1	3e-08	19 / 448	hsa-miR-20b
2	4e-08	17 / 361	hsa-miR-130b
3	3e-07	14 / 275	hsa-miR-590-3p
4	4e-07	15 / 329	hsa-miR-7f
5	1e-06	16 / 403	hsa-miR-106b
6	1e-06	14 / 314	hsa-miR-372
7	1e-06	8 / 87	hsa-miR-449b
8	2e-06	16 / 427	hsa-miR-17
9	3e-06	12 / 303	hsa-miR-93
10	3e-06	12 / 245	hsa-miR-302d
11	4e-06	10 / 167	hsa-miR-181c
12	4e-06	9 / 134	hsa-miR-141
13	5e-06	8 / 103	hsa-miR-576-3p
14	5e-06	11 / 216	hsa-miR-548l
15	6e-06	9 / 140	hsa-miR-52

D-Cluster

Spot Summary: G

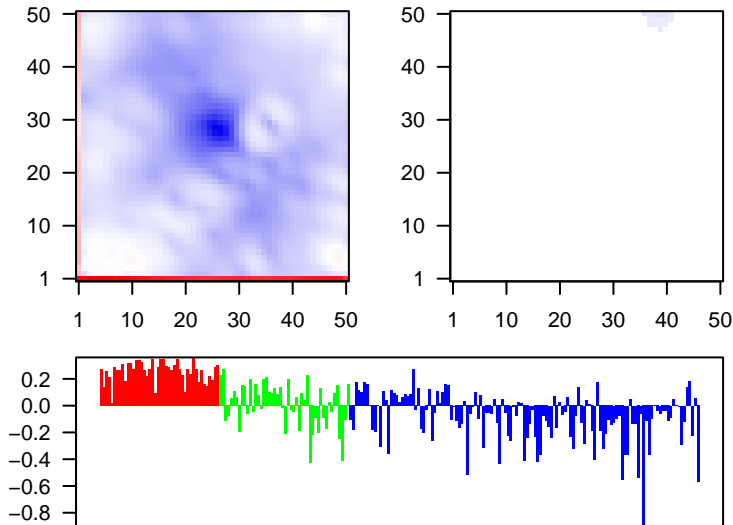
metagenes = 16
genes = 312

<r> metagenes = 0.98
<r> genes = 0.41
beta: r2= 9.18 / log p= -Inf

samples with spot = 31 (14 %)
mBL : 29 (65.9 %)
intermediate : 1 (2.1 %)
non-mBL : 1 (0.8 %)

Overview Map

Spot

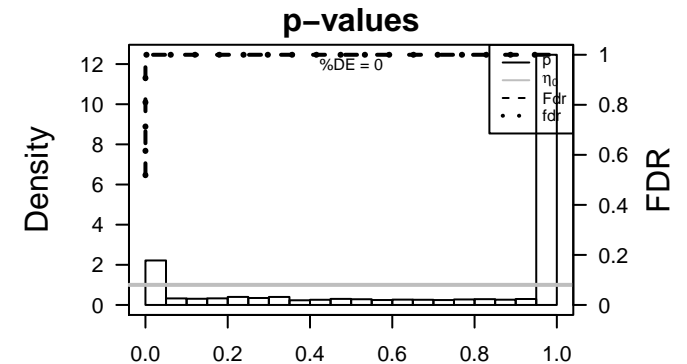


Spot Genelist

Rank	ID	max e	r	min e	Description
1	205229_s_at	1.84	-2.18	0.38	COCH cochlin [Source:HGNC Symbol;Acc:HGNC:2180]
2	209980_s_at	1.66	-1.51	0.74	SHMT1 serine hydroxymethyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:11000]
3	219474_at	1.6	-1.32	0.47	C3orf52 chromosome 3 open reading frame 52 [Source:HGNC Symbol;Acc:HGNC:19450]
4	213610_s_at	1.38	-1.42	0.45	KLHL23 kelch like family member 23 [Source:HGNC Symbol;Acc:HGNC:11000]
5	203790_s_at	1.21	-1.38	0.53	RIDA reactive intermediate imine deaminase A homolog [Source:HGNC Symbol;Acc:HGNC:11000]
6	210389_x_at	1.15	-1.08	0.51	TUBD1 tubulin delta 1 [Source:HGNC Symbol;Acc:HGNC:16811]
7	211767_at	1.12	-1.32	0.55	GINS4 GINS complex subunit 4 [Source:HGNC Symbol;Acc:HGNC:11000]
8	211814_s_at	1.09	-1.27	0.69	CCNE2 cyclin E2 [Source:HGNC Symbol;Acc:HGNC:1590]
9	220258_s_at	1.05	-0.98	0.63	WRAP53WD repeat containing antisense to TP53 [Source:HGNC Symbol;Acc:HGNC:11000]
10	212712_at	1.03	-0.91	0.46	CAMSAP1 calmodulin regulated spectrin associated protein 1 [Source:HGNC Symbol;Acc:HGNC:11000]
11	219311_at	1.03	-0.74	0.68	CEP76 centrosomal protein 76 [Source:HGNC Symbol;Acc:HGNC:22000]
12	202830_s_at	1.02	-0.91	0.43	SLC37A4 solute carrier family 37 member 4 [Source:HGNC Symbol;Acc:HGNC:11000]
13	210415_s_at	1.01	-0.81	0.51	ODF2 outer dense fiber of sperm tails 2 [Source:HGNC Symbol;Acc:HGNC:11000]
14	211793_s_at	1	-0.93	0.33	ABI2 abl interactor 2 [Source:HGNC Symbol;Acc:HGNC:24011]
15	205034_at	1	-1.56	0.65	CCNE2 cyclin E2 [Source:HGNC Symbol;Acc:HGNC:1590]
16	218857_s_at	0.98	-1.13	0.39	ASRGL1 asparaginase like 1 [Source:HGNC Symbol;Acc:HGNC:16441]
17	221219_s_at	0.97	-1.61	0.38	KLHDC4 kelch domain containing 4 [Source:HGNC Symbol;Acc:HGNC:11000]
18	204603_at	0.97	-1.23	0.77	EXO1 exonuclease 1 [Source:HGNC Symbol;Acc:HGNC:3511]
19	215519_x_at	0.97	-0.9	0.38	
20	220892_s_at	0.95	-1.71	0.52	PSAT1 phosphoserine aminotransferase 1 [Source:HGNC Symbol;Acc:HGNC:11000]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	83 / 115	Gliom WILLSCHER_GBM_Verhaak-CL-up (C)
2	1e-99	125 / 319	Melar Gerber_wt/wt_melanoma-cells-SpotA
3	1e-99	162 / 966	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
4	1e-99	101 / 244	GSE/ KOBAYASHI_EGFR_SIGNALING_24HR_DN
5	1e-99	125 / 431	GSE/ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
6	3e-99	79 / 137	GSE/ ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
7	6e-89	90 / 254	GSE/ DUTERTRE_ESTRADIOL_RESPONSE_24HR_UP
8	2e-85	103 / 409	Canci Lembcke_Normal vs Adenoma
9	1e-83	10 / 14	Canci SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
10	1e-83	10 / 14	Canci SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
11	1e-79	108 / 526	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
12	3e-79	101 / 439	GSE/ SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
13	7e-77	121 / 758	GSE/ NUYTEN_EZH2_TARGETS_DN
14	1e-76	78 / 219	Refer WIRTH_GC_B-cells
15	3e-68	67 / 174	GSE/ GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP
16	2e-66	72 / 226	GSE/ ZHANG_TLX_TARGETS_60HR_DN
17	1e-63	52 / 93	GSE/ CROONQUIST_IL6_DEPRIVATION_DN
18	3e-62	97 / 575	GSE/ CAIRO_HEPATOBLASTOMA_CLASSES_UP
19	5e-62	78 / 321	GSE/ BLUM_RESPONSE_TO_SALIRASIB_DN
20	5e-62	123 / 1052	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_DN
21	2e-61	84 / 400	GSE/ PUJANA_BRCA2_PCC_NETWORK
22	2e-59	50 / 95	GSE/ O'DONNELL_TFRC_TARGETS_DN
23	2e-58	74 / 307	GSE/ VECCHI_GASTRIC_CANCER_EARLY_UP
24	7e-57	62 / 195	HM HALLMARK_G2M_CHECKPOINT
25	2e-56	90 / 548	GSE/ BENPORATH_CYCLING_GENES
26	3e-55	60 / 187	HM HALLMARK_E2F_TARGETS
27	5e-55	51 / 117	GSE/ CHANG_CYCLING_GENES
28	1e-54	83 / 466	GSE/ BERENJENO_TRANSFORMED_BY_RHOA_UP
29	2e-54	60 / 192	Lymp Victora_Dark zone signature
30	3e-53	42 / 70	GSE/ CROONQUIST_NRAS_SIGNALING_DN
31	2e-52	67 / 280	GSE/ MANALO_HYPOXIA_DN
32	5e-52	64 / 250	GSE/ HORIUCHI_WTAP_TARGETS_DN
33	3e-51	37 / 52	GSE/ KANG_DOXORUBICIN_RESISTANCE_UP
34	1e-50	95 / 726	GSE/ PUJANA_CHEK2_PCC_NETWORK
35	2e-50	62 / 241	GSE/ BASAKI_YBX1_TARGETS_UP
36	2e-50	52 / 147	GSE/ HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP
37	4e-50	42 / 79	Melar Tirosh_core cycling genes in low- and high-proliferation melanoma
38	1e-48	42 / 84	GSE/ GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_DN
39	3e-48	69 / 347	GSE/ REACTOME_CELL_CYCLE
40	4e-48	53 / 169	GSE/ FUJII_YBX1_TARGETS_DN



D-Cluster

Spot Summary: H

metagenes = 15
genes = 280

<r> metagenes = 0.98

<r> genes = 0.33

beta: r2= 16.92 / log p= -Inf

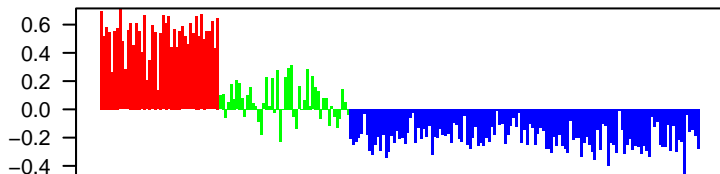
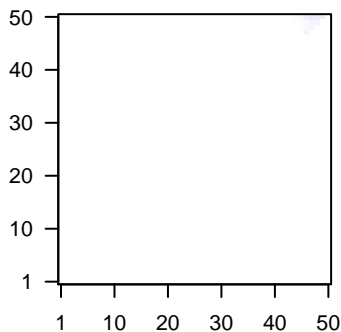
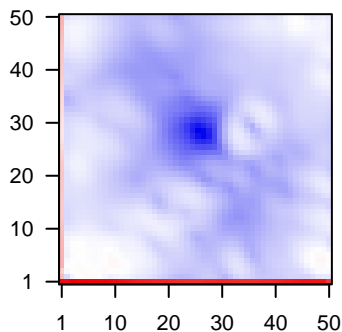
samples with spot = 46 (20.8 %)

mBL : 42 (95.5 %)

intermediate : 4 (8.3 %)

Overview Map

Spot

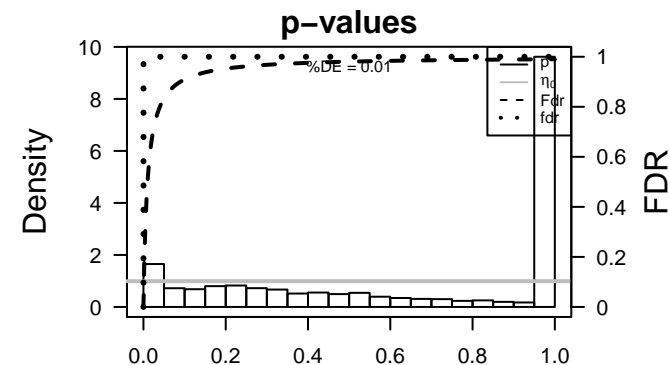


Spot Genelist

Rank	ID	max e	r	min e	Description
1	206660_at	2.83	-0.99	0.51	IGLL1 immunoglobulin lambda like polypeptide 1 [Source:HGNC Symt
2	221349_at	2.76	-0.89	0.72	VPREB1 V-set pre-B cell surrogate light chain 1 [Source:HGNC Symt
3	206413_s_at	2.76	-1.22	0.37	TCL1B T cell leukemia/lymphoma 1B [Source:HGNC Symbol;Acc:HGNC
4	204914_s_at	2.24	-0.89	0.67	SOX11 SRY-box 11 [Source:HGNC Symbol;Acc:HGNC:11191]
5	213920_at	2.19	-1.02	0.52	CUX2 cut like homeobox 2 [Source:HGNC Symbol;Acc:HGNC:1934
6	219855_at	2.18	-0.78	0.46	NUDT11 nudix hydrolase 11 [Source:HGNC Symbol;Acc:HGNC:18011
7	213674_x_at	2.16	-1.9	0.35	immunoglobulin heavy constant delta [Source:HGNC Symbol
8	38037_at	2.16	-1.11	0.59	HBEGF heparin binding EGF like growth factor [Source:HGNC Symb
9	204915_s_at	2.16	-0.86	0.61	SOX11 SRY-box 11 [Source:HGNC Symbol;Acc:HGNC:11191]
10	209590_at	2.09	-1.32	0.8	BMP7 bone morphogenetic protein 7 [Source:HGNC Symbol;Acc:HGNC
11	210244_at	2.07	-1.33	0.37	CAMP cathelicidin antimicrobial peptide [Source:HGNC Symbol;Acc:
12	203821_at	2.07	-1.19	0.56	HBEGF heparin binding EGF like growth factor [Source:HGNC Symb
13	219737_s_at	2.07	-1.48	0.69	PCDH9 protocadherin 9 [Source:HGNC Symbol;Acc:HGNC:8661]
14	204913_s_at	2.07	-1.11	0.66	SOX11 SRY-box 11 [Source:HGNC Symbol;Acc:HGNC:11191]
15	205122_at	2	-1	0.61	TMEFF1 transmembrane protein with EGF like and two follistatin like d
16	209469_at	1.96	-1.84	0.43	GPM6A glycoprotein M6A [Source:HGNC Symbol;Acc:HGNC:4460]
17	203435_s_at	1.95	-1.72	0.71	MME membrane metalloendopeptidase [Source:HGNC Symbol;Acc:
18	213280_at	1.95	-0.83	0.57	RAP1GAP1 GTPase activating protein 2 [Source:HGNC Symbol;Acc:
19	209570_s_at	1.94	-0.79	0.52	NSG1 neuronal vesicle trafficking associated 1 [Source:HGNC Symt
20	217276_x_at	1.91	-1.16	0.56	serine hydrolase-like (pseudogene) [Source:HGNC Symbol;Acc:

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-49	32 / 42	GSE# HUMMEL_BURKITTs_LYMPHOMA_UP
2	1e-28	37 / 192	Lymp# Victora_Dark zone signature
3	7e-27	28 / 99	Lymp# Sha_BL_UP
4	7e-22	13 / 15	Lymp# BENTINK_mBL_UP
5	4e-20	61 / 955	Lymp# SPANG_BCR_UP
6	5e-17	31 / 275	GSE# HADDAD_B_LYMPHOCYTE_PROGENITOR
7	1e-16	10 / 12	Canci# BENTINK_e2f3.2
8	7e-15	28 / 263	Lymp# SPANG_CD40 6hrs UP
9	6e-12	23 / 227	Lymp# SPANG_IL21 UP
10	2e-11	6 / 6	Lymp# MASQUE_mBL_UP
11	1e-10	20 / 195	GSE# HOLLMANN_APOPTOSIS_VIA_CD40_UP
12	1e-10	17 / 135	Lymp# DAVE_BL-vs-DLBCL
13	4e-10	12 / 61	GSE# BASSO_CD40_SIGNALING_DN
14	1e-09	34 / 615	GSE# BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_DN
15	2e-08	6 / 12	Canci# BENTINK_ras.1
16	2e-08	35 / 728	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
17	9e-08	24 / 400	GSE# PUJANA_BRCA2_PCC_NETWORK
18	2e-07	5 / 9	Lymp# DAVE_BL_UP
19	4e-07	21 / 340	GSE# RHEIN_ALL_GLUCOCORTICOID_THERAPY_DN
20	6e-07	30 / 651	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
21	7e-07	9 / 60	GSE# PYEON_HPV_POSITIVE_TUMORS_UP
22	8e-07	9 / 61	GSE# BILBAN_B_CLL_LPL_UP
23	1e-06	38 / 966	GSE# KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
24	2e-06	38 / 1001	Color# LaPointe_mucosa-position_kmeans_H_cecum_colon_ascending_colon_UP
25	3e-06	131 / 5682	Lymp# HOPP_Weak_promoter
26	3e-06	50 / 1527	GSE# PUJANA_BRCA1_PCC_NETWORK
27	8e-06	21 / 414	BP# negative regulation of transcription, DNA-templated
28	1e-05	13 / 176	GSE# BILD_E2F3_ONCOGENIC_SIGNATURE
29	1e-05	28 / 669	GSE# JOHNSTONE_PARVB_TARGETS_3_DN
30	1e-05	26 / 608	GSE# SMID_BREAST_CANCER_BASAL_UP
31	2e-05	15 / 240	GSE# MITSIADES_RESPONSE_TO_APLIDIN_DN
32	2e-05	29 / 726	GSE# PUJANA_CHEK2_PCC_NETWORK
33	2e-05	9 / 87	miRN# hsa-miR-449b
34	2e-05	18 / 335	GSE# BENPORATH_ES_1
35	2e-05	12 / 160	GSE# PUJANA_XPRSS_INT_NETWORK
36	2e-05	18 / 337	GSE# DEURIG_T_CELL_PROLYMPHOCYTIC_LEUKEMIA_UP
37	2e-05	21 / 439	GSE# SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
38	4e-05	26 / 641	GSE# CASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_DN
39	4e-05	36 / 1052	GSE# DODD_NASOPHARYNGEAL_CARINOMA_DN
40	5e-05	7 / 57	Pneui# Burnham_day1_vs_5_UP



D-Cluster

Spot Summary: I

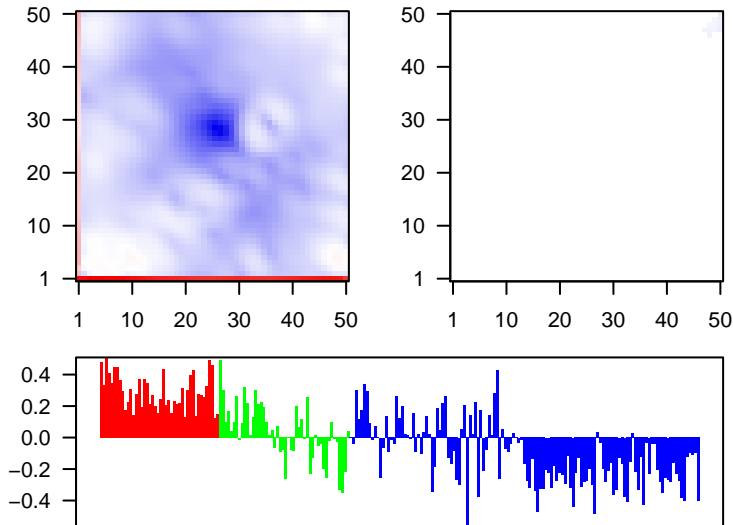
metagenes = 11
genes = 148

<r> metagenes = 0.98
<r> genes = 0.31
beta: r2= 12.6 / log p= -Inf

samples with spot = 37 (16.7 %)
mBL : 25 (56.8 %)
intermediate : 5 (10.4 %)
non-mBL : 7 (5.4 %)

Overview Map

Spot

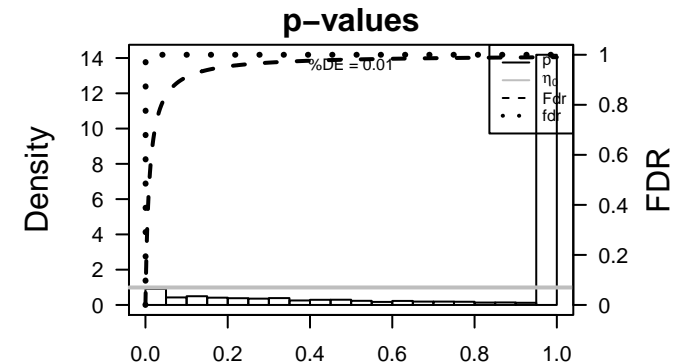


Spot Genelist

Rank	ID	max e	r	min e	Description
1	AFFX-r2-Hs1	3.22	-1.13	0.61	
2	AFFX-r2-Hs1	3.07	-1.49	0.53	
3	AFFX-HUMR	2.91	-0.94	0.61	microRNA 3687-2 [Source:HGNC Symbol;Acc:HGNC:50835]
4	AFFX-HUMR	2.85	-1.18	0.5	
5	AFFX-r2-Hs1	2.71	-1.22	0.69	
6	AFFX-r2-Hs2	2.62	-0.97	0.6	
7	AFFX-M2783	2.6	-1.58	0.6	
8	AFFX-HUMR	2.6	-1.04	0.62	
9	AFFX-r2-Hs2	2.21	-1.56	0.59	
10	215767_at	1.86	-2.03	0.34	ZNF804 Zinc finger protein 804A [Source:HGNC Symbol;Acc:HGNC:215767]
11	201418_s_at	1.77	-1.36	0.38	SOX4 SRY-box 4 [Source:HGNC Symbol;Acc:HGNC:11200]
12	AFFX-r2-Hs2	1.66	-1.04	0.51	
13	220214_at	1.53	-1.31	0.46	ZNF215 zinc finger protein 215 [Source:HGNC Symbol;Acc:HGNC:13202]
14	215907_at	1.52	-1.29	0.5	
15	203938_s_at	1.41	-1.47	0.57	TAF1C TATA-box binding protein associated factor, RNA polymerase II [Source:HGNC Symbol;Acc:HGNC:203938]
16	214349_at	1.34	-1.04	0.36	
17	202048_s_at	1.31	-1.09	0.56	CBX6 chromobox 6 [Source:HGNC Symbol;Acc:HGNC:1556]
18	219703_at	1.3	-1.06	0.62	MNS1 meiosis specific nuclear structural 1 [Source:HGNC Symbol;Acc:HGNC:219703]
19	213345_at	1.3	-0.81	0.51	NFATC4 nuclear factor of activated T cells 4 [Source:HGNC Symbol;Acc:HGNC:213345]
20	207416_s_at	1.29	-0.76	0.5	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	4e-10	21 / 400	GSE/ PUJANA_BRCA2_PCC_NETWORK
2	4e-10	90 / 5529	Lympl HOPE_Txn_elongation
3	2e-09	33 / 1052	GSE/ DODD_NASOPHARYNGEAL_CARCCINOMA_DN
4	2e-08	17 / 319	Melar Gerber_wt/wt_melanoma-cells-SpotA
5	4e-08	76 / 4579	CC nucleus
6	1e-07	51 / 2541	CC nucleoplasm
7	2e-07	20 / 526	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
8	4e-07	70 / 4261	Lympl HOPE_Txn_transition
9	3e-06	16 / 409	Canci Lembcke_Normal vs Adenoma
10	3e-06	29 / 1174	Color LaPointe_mucosa-position_kmeans_E_transverse_color_UP_transverse_color_UP
11	2e-05	4 / 16	GSE/ REACTOME_SIGNALING_BY_FGFR1_FUSION_MUTANTS
12	2e-05	4 / 17	GSE/ REACTOME_FANCONI_ANEMIA_PATHWAY
13	2e-05	19 / 651	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
14	3e-05	18 / 602	Color Pentrack_CRC_TCGA_corr_R_normal_DN
15	3e-05	32 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
16	6e-05	5 / 42	GSE/ RASHI_RESPONSE_TO_IONIZING_RADIATION_3
17	6e-05	19 / 703	GSE/ LEE_BMP2_TARGETS_DN
18	7e-05	7 / 102	GSE/ WHITEFORD_PEDIATRIC_CANCER_MARKERS
19	7e-05	11 / 267	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_3_UP
20	7e-05	6 / 71	GSE/ REACTOME_MITOTIC_G2_G2_M_PHASES
21	8e-05	24 / 1044	TF ICGC_Six5_targets
22	1e-04	5 / 47	GSE/ OXFORD_RALA_OR_RALB_TARGETS_UP
23	1e-04	12 / 327	GSE/ ZHANG_BREAST_CANCER_PROGENITORS_UP
24	1e-04	19 / 728	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
25	1e-04	9 / 187	HM HALLMARK_E2F_TARGETS
26	1e-04	16 / 548	Chr Chr 16
27	1e-04	8 / 147	GSE/ HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP
28	1e-04	11 / 280	GSE/ MANALO_HYPOXIA_DN
29	1e-04	15 / 497	BP cell cycle
30	1e-04	13 / 387	GSE/ LIAO_METASTASIS
31	1e-04	31 / 1578	TF ICGC_GabpPcr2_targets
32	1e-04	4 / 27	GSE/ REACTOME_SIGNALING_BY_FGFR1_MUTANTS
33	1e-04	10 / 240	GSE/ MITSIADES_RESPONSE_TO_APLIDIN_DN
34	1e-04	9 / 195	HM HALLMARK_G2M_CHECKPOINT
35	1e-04	5 / 51	GSE/ REACTOME_LOSS_OF_NLP_FROM_MITOTIC_CENTROSOMES
36	2e-04	12 / 347	GSE/ REACTOME_CELL_CYCLE
37	2e-04	4 / 29	MF ribonucleoprotein complex binding
38	2e-04	3 / 12	BP centriole replication
39	2e-04	5 / 56	GSE/ REACTOME_RECRUITMENT_OF_MITOTIC_CENTROSOME_PROTEINS
40	2e-04	6 / 88	GSE/ REACTOME_DNA_REPAIR



D-Cluster

Spot Summary: J

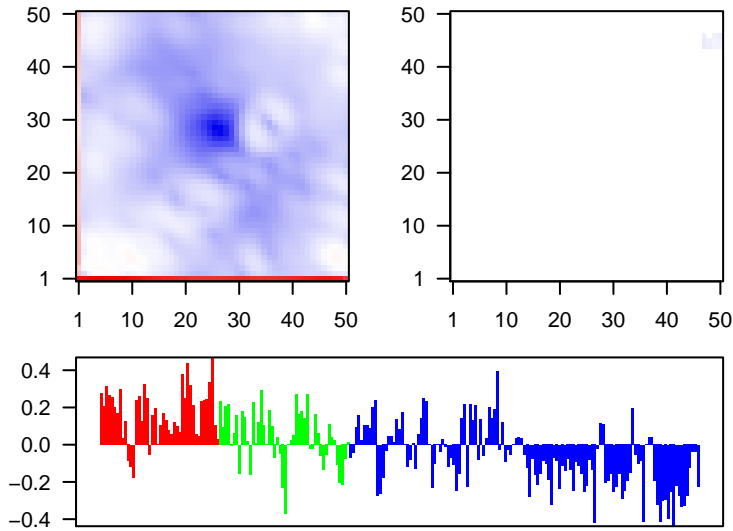
metagenes = 11
genes = 181

<r> metagenes = 0.97
<r> genes = 0.25
beta: r2= 7.68 / log p= -Inf

samples with spot = 14 (6.3 %)
mBL : 10 (22.7 %)
intermediate : 3 (6.2 %)
non-mBL : 1 (0.8 %)

Overview Map

Spot

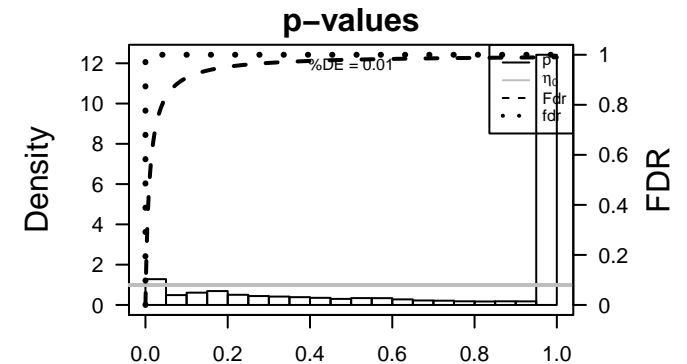


Spot Genelist

Rank	ID	max e	r	Description	
		min e		Symbol	
1	208719_s_at	2	-1.36	0.46	DDX17 DEAD-box helicase 17 [Source:HGNC Symbol;Acc:HGNC:2
2	213668_s_at	1.86	-1.12	0.5	SOX4 SRY-box 4 [Source:HGNC Symbol;Acc:HGNC:11200]
3	208151_x_at	1.73	-1.48	0.55	DDX17 DEAD-box helicase 17 [Source:HGNC Symbol;Acc:HGNC:2
4	213792_s_at	1.71	-1.1	0.36	INSR insulin receptor [Source:HGNC Symbol;Acc:HGNC:6091]
5	AFFX-M2783	1.67	-1.23	0.55	
6	221496_s_at	1.6	-1.41	0.67	TOB2 transducer of ERBB2, 2 [Source:HGNC Symbol;Acc:HGNC:1
7	206500_s_at	1.46	-1.04	0.68	MIS18BP1 MIS18 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:2
8	213789_at	1.44	-0.92	0.45	
9	213328_at	1.34	-1.04	0.6	NEK1 NIMA related kinase 1 [Source:HGNC Symbol;Acc:HGNC:77
10	219048_at	1.3	-1.15	0.33	PIGN phosphatidylinositol glycan anchor biosynthesis class N [Sou
11	220938_s_at	1.3	-1.05	0.56	GMEB1 glucocorticoid modulatory element binding protein 1 [Source:
12	213998_s_at	1.25	-1.33	0.53	DDX17 DEAD-box helicase 17 [Source:HGNC Symbol;Acc:HGNC:2
13	219437_s_at	1.25	-1.33	0.62	ANKRD1 ankryrin repeat domain 11 [Source:HGNC Symbol;Acc:HGNC
14	213979_s_at	1.24	-1.43	0.46	
15	213577_at	1.24	-1.21	0.46	SQLE squalene epoxidase [Source:HGNC Symbol;Acc:HGNC:1127
16	212468_at	1.23	-0.81	0.77	SPAG9 sperm associated antigen 9 [Source:HGNC Symbol;Acc:HGNC
17	222158_s_at	1.21	-1.32	0.73	DESI2 desumoylating isopeptidase 2 [Source:HGNC Symbol;Acc:HGNC
18	221753_at	1.21	-1.57	0.52	SSH1 slingshot protein phosphatase 1 [Source:HGNC Symbol;Acc:
19	213660_s_at	1.2	-0.79	0.5	TOP3B DNA topoisomerase III beta [Source:HGNC Symbol;Acc:HGNC
20	214723_x_at	1.19	-0.73	0.63	ANKRD3 ankryrin repeat domain 36 [Source:HGNC Symbol;Acc:HGNC

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	6e-19	56 / 1174	Colon LaPointe_mucosa-position_kmeans_E_transverse colon_UP_transverse c
2	3e-18	20 / 106	Refer Chaussabel_2_11_Replication
3	1e-13	118 / 5529	LympI HOPP_Txn_elongation
4	4e-12	98 / 4261	LympI HOPP_Txn_transition
5	2e-11	37 / 830	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
6	4e-09	81 / 3564	TF ICGC_Taf1_targets
7	7e-09	20 / 328	GSE/ OSMAN_BLADDER_CANCER_UP
8	1e-08	64 / 2541	CC nucleoplasm
9	3e-08	111 / 5908	LympI HOPP_Active_promoter
10	3e-07	17 / 303	GSE/ SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_UP
11	7e-07	69 / 3150	TF ICGC_Creb1_targets
12	7e-07	10 / 102	LympI ROSOLOWSKI_blue total
13	9e-07	12 / 159	GSE/ CHANDRAN_METASTASIS_UP
14	1e-06	89 / 4579	CC nucleus
15	1e-06	7 / 44	MF methylated histone binding
16	2e-06	67 / 3121	TF ICGC_Egr1_targets
17	3e-06	84 / 4319	TF ICGC_Pou2_targets
18	4e-06	42 / 1602	GSE/ BLALOCK_ALZHEIMERS_DISEASE_UP
19	4e-06	76 / 3769	TF ICGC_Pmlsc71910_targets
20	4e-06	8 / 72	GSE/ BILD_CTNNB1_ONCOGENIC_SIGNATURE
21	5e-06	76 / 3796	TF ICGC_Nficc81335_targets
22	5e-06	76 / 3804	TF ICGC_Stat5_targets
23	7e-06	73 / 3630	TF ICGC_Sp1_targets
24	1e-05	70 / 3451	TF ICGC_Atf2_targets
25	1e-05	23 / 669	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
26	1e-05	69 / 3420	TF ICGC_Bclaf101388_targets
27	2e-05	14 / 286	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_UP
28	2e-05	30 / 1044	TF ICGC_Six5_targets
29	2e-05	85 / 4602	TF ICGC_Elf1_targets
30	3e-05	40 / 1630	TF ICGC_SrfV0416101_targets
31	3e-05	72 / 3703	TF ICGC_Foxm1_targets
32	3e-05	18 / 469	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
33	3e-05	80 / 4278	TF ICGC_Yy1_targets
34	4e-05	77 / 4072	TF ICGC_Mta3_targets
35	4e-05	40 / 1655	BP transcription, DNA-templated
36	6e-05	13 / 278	miRN hsa-let-7d
37	6e-05	77 / 4131	TF ICGC_Tcf3_targets
38	7e-05	10 / 171	miRN hsa-miR-196a
39	8e-05	5 / 35	miRN hsa-miR-329
40	8e-05	5 / 35	GSE/ PENG_GLYTAMINE_DEPRIVATION_UP



Ranking p-value #in/all Geneset description

BP Rank p-value #in/all Geneset description

Cancer Rank p-value #in/all Geneset description

CC Rank p-value #in/all Geneset description

Chr Rank p-value #in/all Geneset description

Chromatin states Rank p-value #in/all Geneset description

Colon Cancer Rank p-value #in/all Geneset description

Glioma Rank p-value #in/all Geneset description

GSEA C2 Rank p-value #in/all Geneset description

LMM Rank p-value #in/all Geneset description

Immunome Rank p-value #in/all Geneset description

Lifestyle Rank p-value #in/all Geneset description

Lymphoma Rank p-value #in/all Geneset description

Melanoma Rank p-value #in/all Geneset description

MF Rank p-value #in/all Geneset description

miRNA target Rank p-value #in/all Geneset description

Pneumonia Rank p-value #in/all Geneset description

Reference Signatures Rank p-value #in/all Geneset description

Telomeres Rank p-value #in/all Geneset description

TF Rank p-value #in/all Geneset description

Reference Signatures Rank p-value #in/all Geneset description

D-Cluster

Spot Summary: K

metagenes = 14
genes = 199

<r> metagenes = 0.97
<r> genes = 0.24
beta: r2= 6.27 / log p= -Inf

samples with spot = 26 (11.8 %)
mBL : 10 (22.7 %)
intermediate : 7 (14.6 %)
non-mBL : 9 (7 %)

Spot Genelist

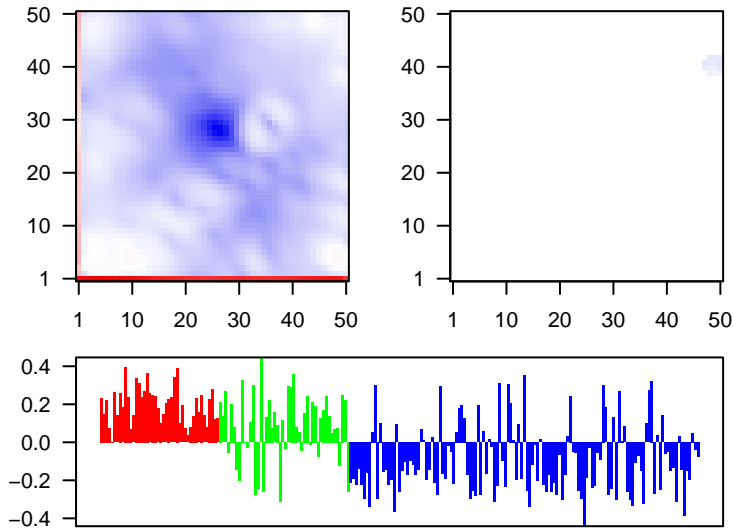
Rank	ID	max e	r	min e	Description
1	219655_at	2.48	-0.74	0.49	SUGCT succinyl-CoA:glutarate-CoA transferase [Source:HGNC Syrn
2	220448_at	2.35	-0.95	0.55	KCNK12 potassium two pore domain channel subfamily K member 12
3	203865_s_at	2.33	-1.02	0.38	ADARB1 adenosine deaminase, RNA specific B1 [Source:HGNC Syrn
4	221879_at	2.18	-0.84	0.29	
5	205902_at	2.03	-0.94	0.51	KCNN3 potassium calcium-activated channel subfamily N member 3
6	210640_s_at	1.98	-0.91	0.39	GPER1 G protein-coupled estrogen receptor 1 [Source:HGNC Symb
7	220432_s_at	1.97	-0.86	0.6	CYP39A1 cytochrome P450 family 39 subfamily A member 1 [Source:H
8	213436_at	1.92	-1.49	0.38	CNR1 cannabinoid receptor 1 [Source:HGNC Symbol;Acc:HGNC:21
9	210461_s_at	1.78	-0.98	0.51	ABLIM1 actin binding LIM protein 1 [Source:HGNC Symbol;Acc:HGNC
10	218862_at	1.71	-1.7	0.71	ASB13 ankyrin repeat and SOCS box containing 13 [Source:HGNC s
11	220351_at	1.66	-0.79	0.42	C-C motif chemokine receptor like 1 pseudogene 1 [Source:t
12	218922_s_at	1.62	-1.16	0.62	CERS4 ceramide synthase 4 [Source:HGNC Symbol;Acc:HGNC:237
13	203769_s_at	1.62	-0.95	0.56	STS steroid sulfatase [Source:HGNC Symbol;Acc:HGNC:11425]
14	219753_at	1.54	-1.48	0.56	STAG3 stromal antigen 3 [Source:HGNC Symbol;Acc:HGNC:11356]
15	219304_s_at	1.54	-1.46	0.42	PDGFD platelet derived growth factor D [Source:HGNC Symbol;Acc:f
16	207216_at	1.5	-1.24	0.45	TNFSF8 TNF superfamily member 8 [Source:HGNC Symbol;Acc:HGN
17	213122_at	1.5	-1.06	0.36	TSPYL5 TSPY like 5 [Source:HGNC Symbol;Acc:HGNC:29367]
18	208353_x_at	1.49	-0.86	0.44	ANK1 ankyrin 1 [Source:HGNC Symbol;Acc:HGNC:492]
19	213906_at	1.47	-1.54	0.85	MYBL1 MYB proto-oncogene like 1 [Source:HGNC Symbol;Acc:HGN
20	210957_s_at	1.45	-1.17	0.63	AFF2 AF4/FMR2 family member 2 [Source:HGNC Symbol;Acc:HGT

Geneset Overrepresentation

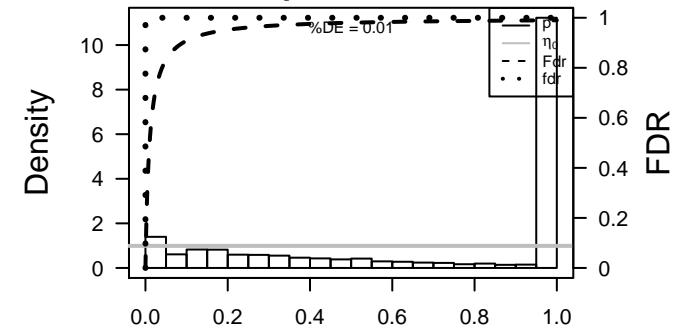
Rank	p-value	#in/all	Geneset
1	3e-23	32 / 263	Lymp SPANG_CD40 6hrs UP
2	2e-22	28 / 195	GSE/ HOLLMANN_APOPTOSIS_VIA_CD40_UP
3	6e-17	118 / 5404	Lymp HOPP_Strong_enhancer
4	4e-14	119 / 5908	Lymp HOPP_Active_promoter
5	3e-13	13 / 61	GSE/ BASSO_CD40_SIGNALING_DN
6	7e-13	114 / 5682	Lymp HOPP_Weak_promoter
7	1e-12	19 / 186	GSE/ PENG_RAPAMYCIN_RESPONSE_UP
8	1e-11	39 / 955	Lymp SPANG_BCR UP
9	2e-10	18 / 219	Refer WIRTH_GC B-cells
10	8e-10	14 / 133	GSE/ PENG_LEUCINE_DEPRIVATION_UP
11	1e-09	19 / 275	GSE/ HADDAD_B_LYMPHOCYTE_PROGENITOR
12	1e-08	5 / 8	Lymp MASCQUE_GCB UP
13	2e-08	6 / 16	GSE/ ZHAN_LATE_DIFFERENTIATION_GENES_DN
14	2e-08	9 / 56	GSE/ KLEIN_PRIMARY_EFFUSION_LYMPHOMA_DN
15	3e-08	87 / 4357	Lymp HOPP_Weak_txn
16	3e-08	6 / 17	Lymp Aukema_BCL2_UP_BCL6_DN
17	4e-08	9 / 59	GSE/ HUTTMANN_B_CLL_POOR_SURVIVAL_DN
18	1e-07	88 / 4559	Lymp HOPP_Weak_enhancer
19	3e-07	10 / 96	Lymp SPANG_LPS 6hrs UP
20	3e-07	7 / 37	GSE/ ZHAN_MULTIPLE_MYELOMA_CD2_UP
21	7e-07	5 / 15	Lymp DAVE_BL Inter
22	1e-06	7 / 45	Lymp Monti_BCR_cluster
23	4e-06	8 / 76	GSE/ ZHANG_RESPONSE_TO_IKK_INHIBITOR_AND_TNF_DN
24	4e-06	12 / 192	Lymp Victora_Dark zone signature
25	6e-06	9 / 107	GSE/ SMIRNOV_RESPONSE_TO_IR_6HR_DN
26	7e-06	3 / 4	Lymp WRIGHT_custom_GCB-DLBCL UP
27	8e-06	23 / 678	Refer PROTEINATLAS_lymph node
28	8e-06	95 / 5529	Lymp HOPP_Txn_elongation
29	1e-05	11 / 176	GSE/ ALCALAY_AML_BY_NPM1_LOCALIZATION_DN
30	1e-05	78 / 4261	Lymp HOPP_Txn_transition
31	2e-05	9 / 121	GSE/ PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_DN
32	2e-05	3 / 5	Lymp Shaknovich_ABC_hyper_meth
33	2e-05	17 / 429	GSE/ SMID_BREAST_CANCER_NORMAL_LIKE_UP
34	2e-05	18 / 480	Canc Lembecke_Colonin Inflammation
35	3e-05	4 / 15	GSE/ BIOCARTA_MEF2D_PATHWAY
36	3e-05	3 / 6	Lymp Care_GCB UP
37	4e-05	10 / 168	GSE/ SASAKI_ADULT_T_CELL_LEUKEMIA
38	4e-05	20 / 600	GSE/ RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_DN
39	5e-05	41 / 1814	Lymp HOPP_Repetitive
40	7e-05	27 / 1001	Color LaPointe_mucosa-position_kmeans_H_cecum_colon_ascending_colon_UP

Overview Map

Spot



p-values



D-Cluster

Spot Summary: L

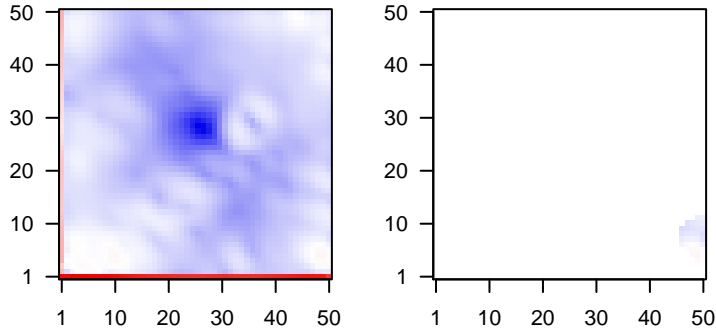
metagenes = 35
genes = 603

<r> metagenes = 0.93
<r> genes = 0.31
beta: r2= 6.01 / log p= -Inf

samples with spot = 20 (9 %)
mBL : 3 (6.8 %)
intermediate : 6 (12.5 %)
non-mBL : 11 (8.5 %)

Overview Map

Spot

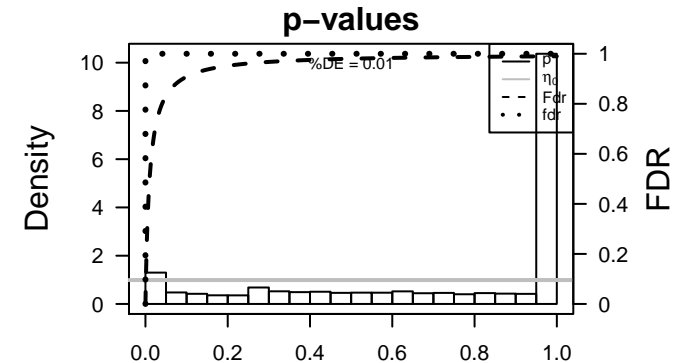
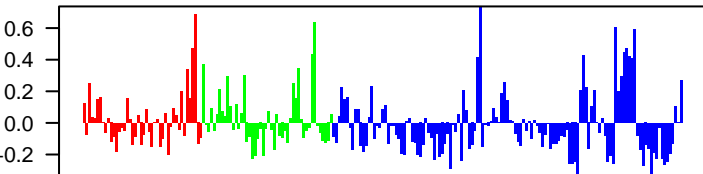


Spot Genelist

Rank	ID	max e	r	min e	Description
1	216766_at	2.26	-0.64	0.68	
2	222357_at	2.23	-0.66	0.62	ZBTB20 zinc finger and BTB domain containing 20 [Source:HGNC Sy
3	215200_x_at	2.17	-1.11	0.57	
4	222073_at	2.16	-0.87	0.38	COL4A3 collagen type IV alpha 3 chain [Source:HGNC Symbol;Acc:Hi
5	214753_at	2.14	-1.23	0.74	
6	212225_at	2.11	-0.84	0.45	EIF1 eukaryotic translation initiation factor 1 [Source:HGNC Symbc
7	207492_at	2.1	-1.01	0.76	
8	205316_at	2.09	-0.97	0.56	SLC15A2solute carrier family 15 member 2 [Source:HGNC Symbol;Acc
9	220918_at	2.03	-0.81	0.79	
10	207078_at	1.96	-0.94	0.74	MED6 mediator complex subunit 6 [Source:HGNC Symbol;Acc:HGN
11	208268_at	1.89	-0.91	0.51	ADAM28 ADAM metallopeptidase domain 28 [Source:HGNC Symbol;A
12	215392_at	1.89	-0.68	0.77	
13	208195_at	1.84	-1.07	0.36	TTN titin [Source:HGNC Symbol;Acc:HGNC:12403]
14	222375_at	1.83	-0.72	0.68	
15	220940_at	1.83	-1.2	0.76	
16	215164_at	1.82	-1.12	0.57	
17	213931_at	1.82	-1.03	0.39	ID2 inhibitor of DNA binding 2 [Source:HGNC Symbol;Acc:HGNC
18	215768_at	1.81	-0.79	0.42	
19	217534_at	1.8	-0.88	0.75	FAM49B family with sequence similarity 49 member B [Source:HGNC :
20	216197_at	1.78	-0.87	0.77	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-50	137 / 1174	Colon LaPointe_mucosa-position_kmeans_E_transverse colon_UP_transverse c
2	2e-39	54 / 188	Refer Chaussabel_3_8_Enzymes
3	3e-27	46 / 218	Refer WIRTH_pre+post GC B-cells
4	2e-26	221 / 4261	Lymp HOPP_Txn_transition
5	5e-22	250 / 5529	Lympi HOPP_Txn_elongation
6	7e-20	15 / 20	Refer Chaussabel_2_7_Unknown function
7	7e-20	57 / 492	Colon LaPointe_mucosa-position_kmeans_C_cecum colon_ascending colon_tra
8	2e-15	26 / 127	GSE/ GINESTIER_BREAST_CANCER_20Q13_AMPLIFICATION_DN
9	2e-14	18 / 59	Gliom WILLSCHER_GBM_Verhaak-PNwt & MES_up
10	3e-13	32 / 239	GSE/ GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN
11	2e-12	7 / 14	Canc LIU_COMMON_CANCER_GENES
12	2e-12	7 / 14	Canc LIU_COMMON_CANCER_GENES
13	2e-12	63 / 852	MF nucleic acid binding
14	2e-11	23 / 143	GSE/ LEE_DIFFERENTIATING_T_LYMPHOCYTE
15	1e-10	90 / 1602	GSE/ BLALOCK_ALZHEIMERS_DISEASE_UP
16	1e-10	23 / 159	GSE/ JISON_SICKLE_CELL_DISEASE_DN
17	2e-10	158 / 3564	TF ICGC_Taf1_targets
18	4e-09	17 / 102	Lymp ROSOLOWSKI_blue total
19	7e-09	11 / 39	GSE/ BILBAN_B_CLL_LPL_DN
20	8e-09	8 / 17	GSE/ SPIRA_SMOKERS_LUNG_CANCER_DN
21	9e-09	28 / 281	BP mRNA processing
22	5e-08	23 / 214	GSE/ CHEN_HOXA5_TARGETS_9HR_UP
23	6e-08	181 / 4579	CC nucleus
24	6e-08	18 / 136	GSE/ REACTOME_MRNA_PROCESSING
25	7e-08	42 / 600	GSE/ RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_DN
26	9e-08	8 / 22	Refer Chaussabel_1_6_Signaling molecules
27	2e-07	134 / 3150	TF ICGC_Creb1_targets
28	2e-07	54 / 906	Lymp SPANG_BCR_DN
29	2e-07	218 / 5908	Lymp HOPP_Active_promoter
30	2e-07	23 / 233	BP RNA splicing
31	3e-07	16 / 120	GSE/ REACTOME_PROCESSING_OF_CAPPED_INTRON_CONTAINING_PRE
32	3e-07	14 / 92	GSE/ HOEBEKE_LYMPHOID_STEM_CELL_UP
33	3e-07	15 / 106	Refer Chaussabel_2_11_Replication
34	3e-07	51 / 848	Colon LaPointe_mucosa-position_kmeans_O_transverse colon_UP_
35	4e-07	69 / 1312	GSE/ PUJANA_ATM_PCC_NETWORK
36	5e-07	63 / 1161	MF RNA binding
37	9e-07	45 / 730	GSE/ ONKEN_UVEAL_MELANOMA_UP
38	9e-07	34 / 477	GSE/ NAKAMURA_TUMOR_ZONE_PERIPHERAL_VS_CENTRAL_DN
39	1e-06	18 / 165	GSE/ THUM_SYSTOLIC_HEART_FAILURE_DN
40	1e-06	151 / 3796	TF ICGC_Nficsc81335_targets



D-Cluster

Spot Summary: M

metagenes = 8
genes = 207

<r> metagenes = 0.99

<r> genes = 0.36

beta: r2= 6.91 / log p= -Inf

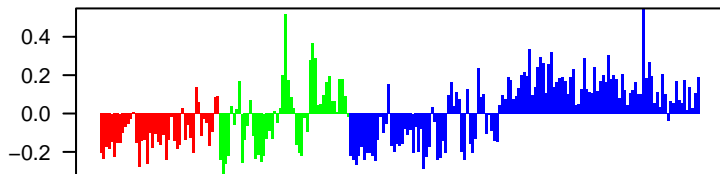
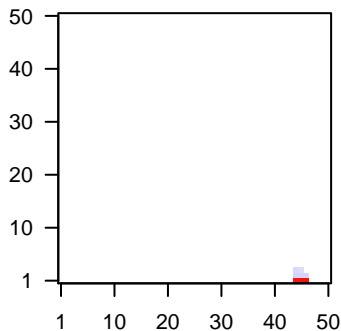
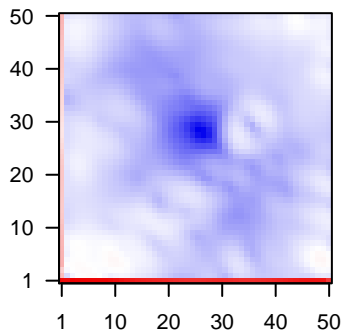
samples with spot = 12 (5.4 %)

intermediate : 4 (8.3 %)

non-mBL : 8 (6.2 %)

Overview Map

Spot



Spot Genelist

Rank	ID	max e	r	min e	Description
1	212236_x_at	2.22	-0.68	0.53	KRT17 keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]
2	202222_s_at	1.96	-0.73	0.58	DES desmin [Source:HGNC Symbol;Acc:HGNC:2770]
3	207337_at	1.83	-1.04	0.54	CTAG2 cancer/testis antigen 2 [Source:HGNC Symbol;Acc:HGNC:24]
4	206760_s_at	1.74	-0.74	0.48	FCER2 Fc fragment of IgE receptor II [Source:HGNC Symbol;Acc:HGNC:24]
5	205334_at	1.65	-0.71	0.54	S100A1 S100 calcium binding protein A1 [Source:HGNC Symbol;Acc:HGNC:24]
6	208607_s_at	1.55	-0.64	0.49	SAA2 serum amyloid A2 [Source:HGNC Symbol;Acc:HGNC:10514]
7	208868_s_at	1.41	-0.86	0.39	GABARAP type A receptor associated protein like 1 [Source:HGNC Symbol;Acc:HGNC:10514]
8	206729_at	1.4	-0.95	0.43	TNFRSF8 TNF receptor superfamily member 8 [Source:HGNC Symbol;Acc:HGNC:10514]
9	211893_x_at	1.38	-0.71	0.45	CD6 CD6 molecule [Source:HGNC Symbol;Acc:HGNC:1691]
10	211900_x_at	1.31	-0.62	0.52	CD6 CD6 molecule [Source:HGNC Symbol;Acc:HGNC:1691]
11	211531_x_at	1.27	-0.96	0.39	PRB1 proline rich protein BstNI subfamily 1 [Source:HGNC Symbol;Acc:HGNC:1691]
12	212772_s_at	1.27	-0.57	0.44	ABCA2 ATP binding cassette subfamily A member 2 [Source:HGNC Symbol;Acc:HGNC:1691]
13	205674_x_at	1.26	-0.71	0.46	FXRD2 FXRD domain containing ion transport regulator 2 [Source:HGNC Symbol;Acc:HGNC:1691]
14	209008_x_at	1.25	-0.56	0.58	KRT8 keratin 8 pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:3]
15	220686_s_at	1.22	-0.65	0.63	PIWIL2 piwi like RNA-mediated gene silencing 2 [Source:HGNC Symbol;Acc:HGNC:1691]
16	209768_s_at	1.17	-1.14	0.59	PIWIL2 piwi like RNA-mediated gene silencing 2 [Source:HGNC Symbol;Acc:HGNC:1691]
17	217597_x_at	1.14	-0.78	0.75	RAB40B RAB40B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:1691]
18	217389_s_at	1.13	-0.77	0.58	RAB40B RAB40B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:1691]
19	220193_at	1.13	-1.25	0.42	SH3D21 SH3 domain containing 21 [Source:HGNC Symbol;Acc:HGNC:1691]
20	221605_s_at	1.1	-0.76	0.71	PIPOX pipecolic acid and sarcosine oxidase [Source:HGNC Symbol;Acc:HGNC:1691]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	7e-10	22 / 358	GSE/ MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP
2	3e-07	9 / 72	GSE/ MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_UP
3	4e-06	6 / 34	BP regulation of synaptic plasticity
4	6e-05	6 / 54	Lymp Hopp_Lymphoma_Epi1_no_zentr_1_B.cell_DN
5	6e-05	5 / 34	BP respiratory gaseous exchange
6	1e-04	17 / 485	TF ICGC_NrsIPcr2_targets
7	2e-04	4 / 24	GSE/ REACTOME_CREB_PHOSPHORYLATION_THROUGH_THE_ACTIVATION_OF_CREB
8	3e-04	3 / 11	MF platelet-derived growth factor binding
9	4e-04	102 / 6368	Color LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
10	4e-04	17 / 539	Color Lembecke_TCGA_meth_kmeans_L_CIMP_H_DN
11	4e-04	4 / 29	GSE/ REACTOME_POST_NMDA_RECEPTOR_ACTIVATION_EVENTS
12	6e-04	12 / 311	GSE/ SHEN_SMARCA2_TARGETS_DN
13	6e-04	3 / 14	BP intermediate filament organization
14	6e-04	3 / 14	GSE/ REACTOME_RAS_ACTIVATION_UOPN_CA2_INFUX_THROUGH_NMDA_RECEPTOR
15	7e-04	4 / 33	GSE/ REACTOME_ACTIVATION_OF_NMDA_RECEPTOR_UPON_GLUTAMATE_BINDING
16	8e-04	10 / 235	GSE/ NIKOLSKY_BREAST_CANCER_17Q21_Q25_AMPLICON
17	8e-04	27 / 1128	CC integral component of plasma membrane
18	9e-04	58 / 3168	Lymp HOPP_Repressed
19	9e-04	4 / 35	BP blood circulation
20	1e-03	39 / 1894	Lymp HOPP_Poised_promoter
21	1e-03	4 / 37	GSE/ KEGG_ALDOSTERONE_REGULATED_SODIUM_REABSORPTION
22	1e-03	3 / 17	BP regulation of neuronal synaptic plasticity
23	1e-03	6 / 94	GSE/ KIM_GASTRIC_CANCER_CHEMOSENSITIVITY
24	1e-03	5 / 65	BP excitatory postsynaptic potential
25	1e-03	15 / 492	Color LaPointe_mucosa-position_kmeans_C_cecum_colon_ascending_colon_UP
26	1e-03	7 / 132	Lymp Subero_DLCL_hyper_meth
27	2e-03	3 / 20	BP regulation of axonogenesis
28	2e-03	3 / 20	GSE/ WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCER_UP
29	2e-03	19 / 730	GSE/ BENPORATH_ES_WITH_H3K27ME3
30	2e-03	4 / 44	GSE/ PARENT_MTOR_SIGNALING_DN
31	2e-03	7 / 144	GSE/ BANDRES_RESPONSE_TO_CARMUSTIN_MGMT_48HR_DN
32	2e-03	2 / 6	GSE/ NIKOLSKY_BREAST_CANCER_20P13_AMPLICON
33	2e-03	4 / 45	Lymp Subero_INT_hypo_meth
34	3e-03	3 / 22	BP neuromuscular process
35	3e-03	13 / 422	GSE/ DELYS_THYROID_CANCER_UP
36	3e-03	5 / 76	BP ephrin receptor signaling pathway
37	3e-03	5 / 78	Melar Tirosh_CAF-cell specific genes
38	3e-03	14 / 483	Color Lembecke_TCGA-expr_kmeans_H_CIMP_H_UP_Cluster3_DN
39	3e-03	6 / 114	BP calcium ion transport
40	3e-03	2 / 7	Glom Sturm_GBM_Meth_overexpression_C_G34_UP

