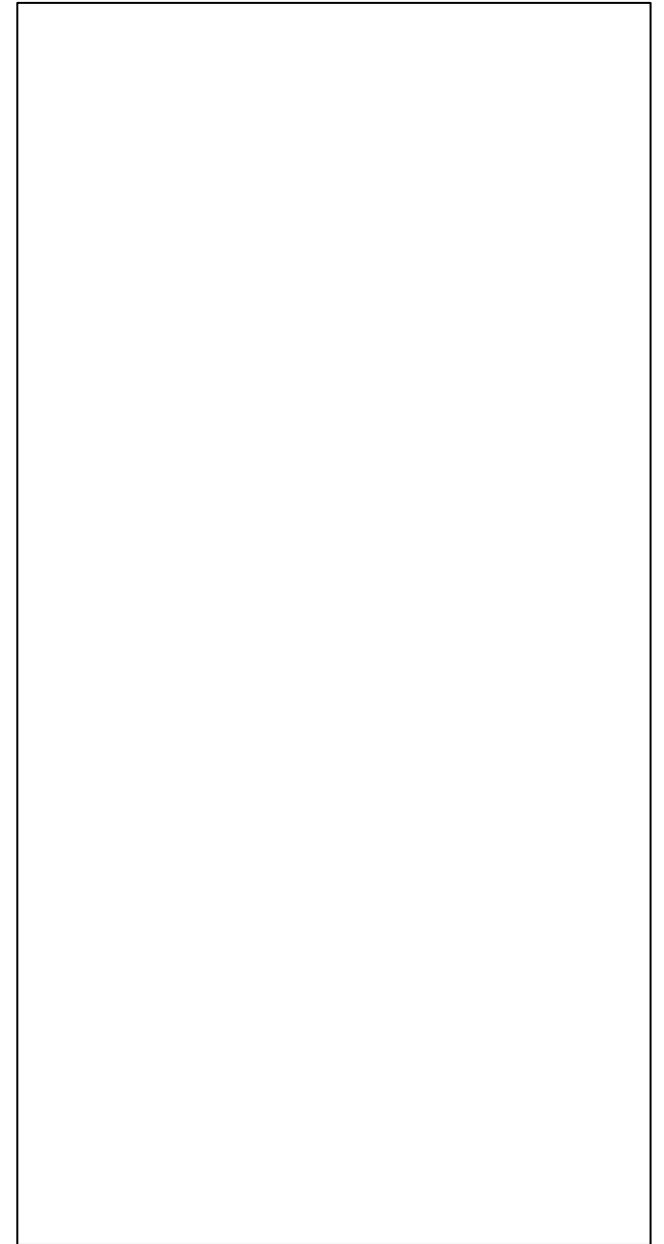
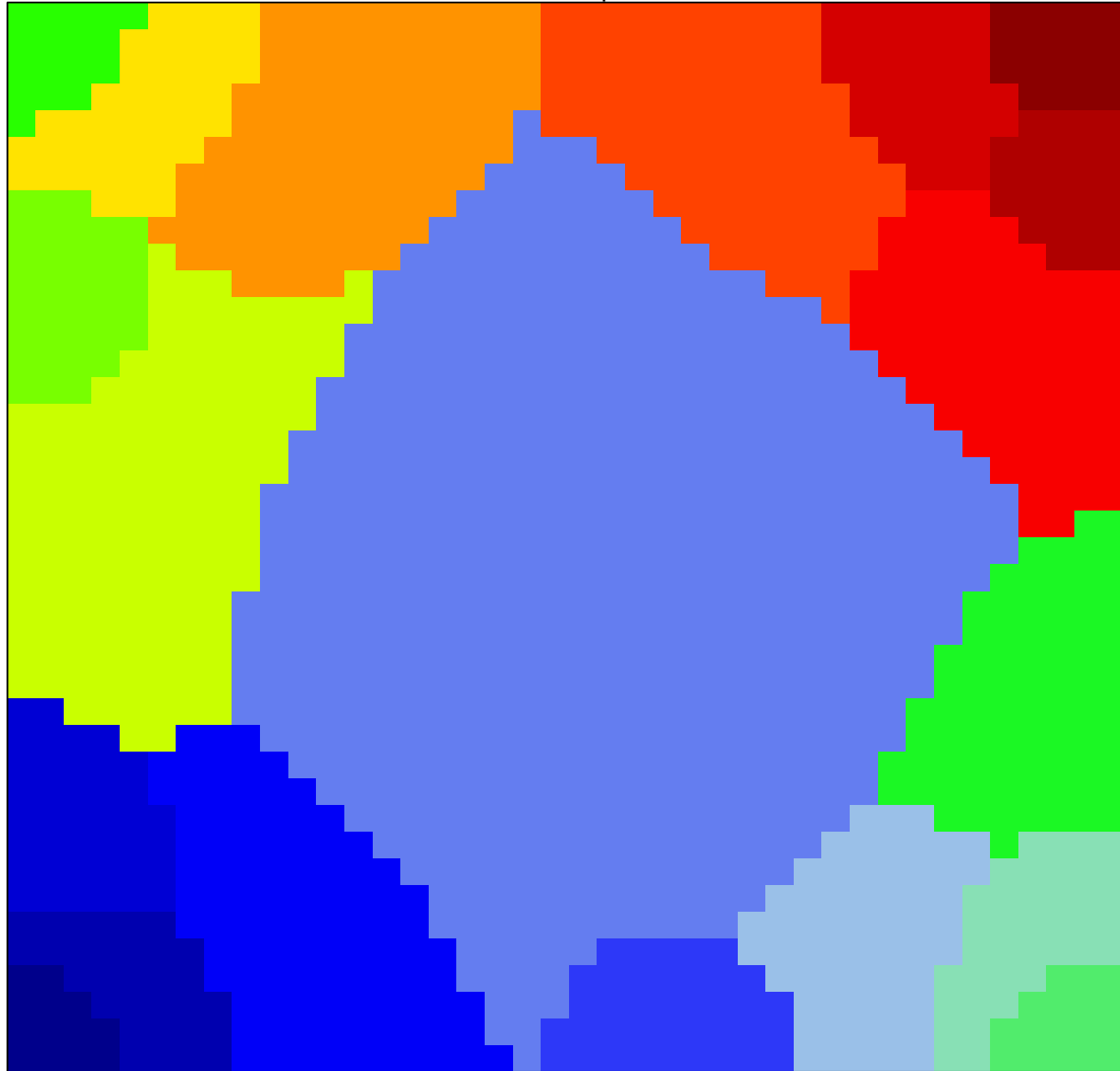


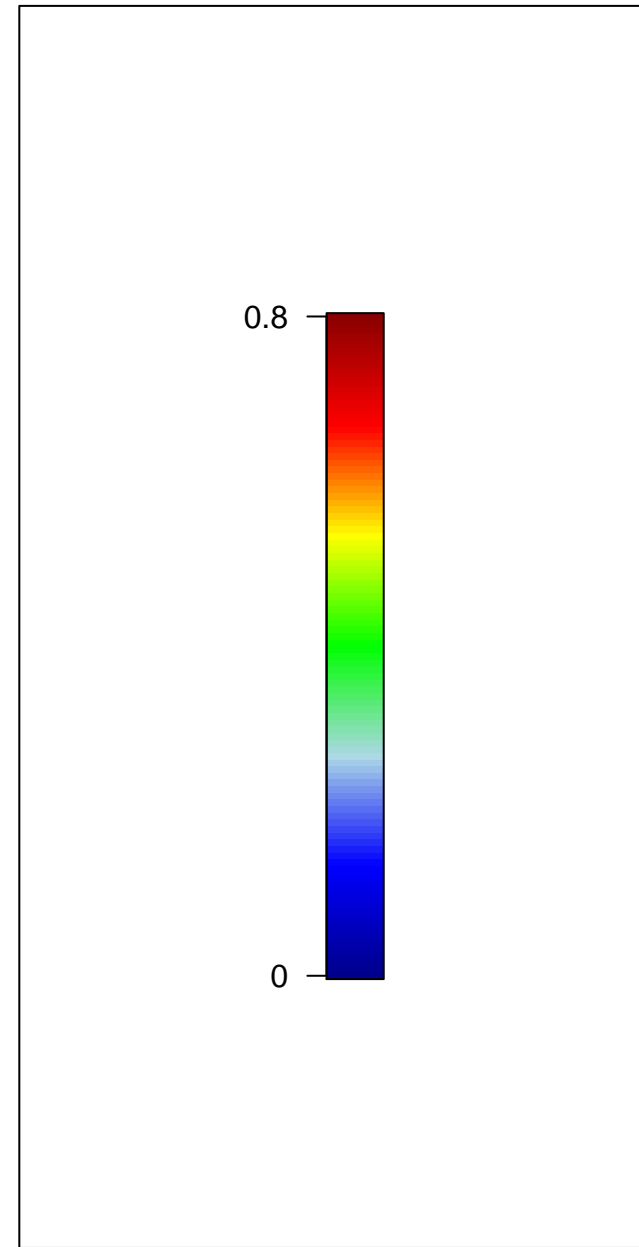
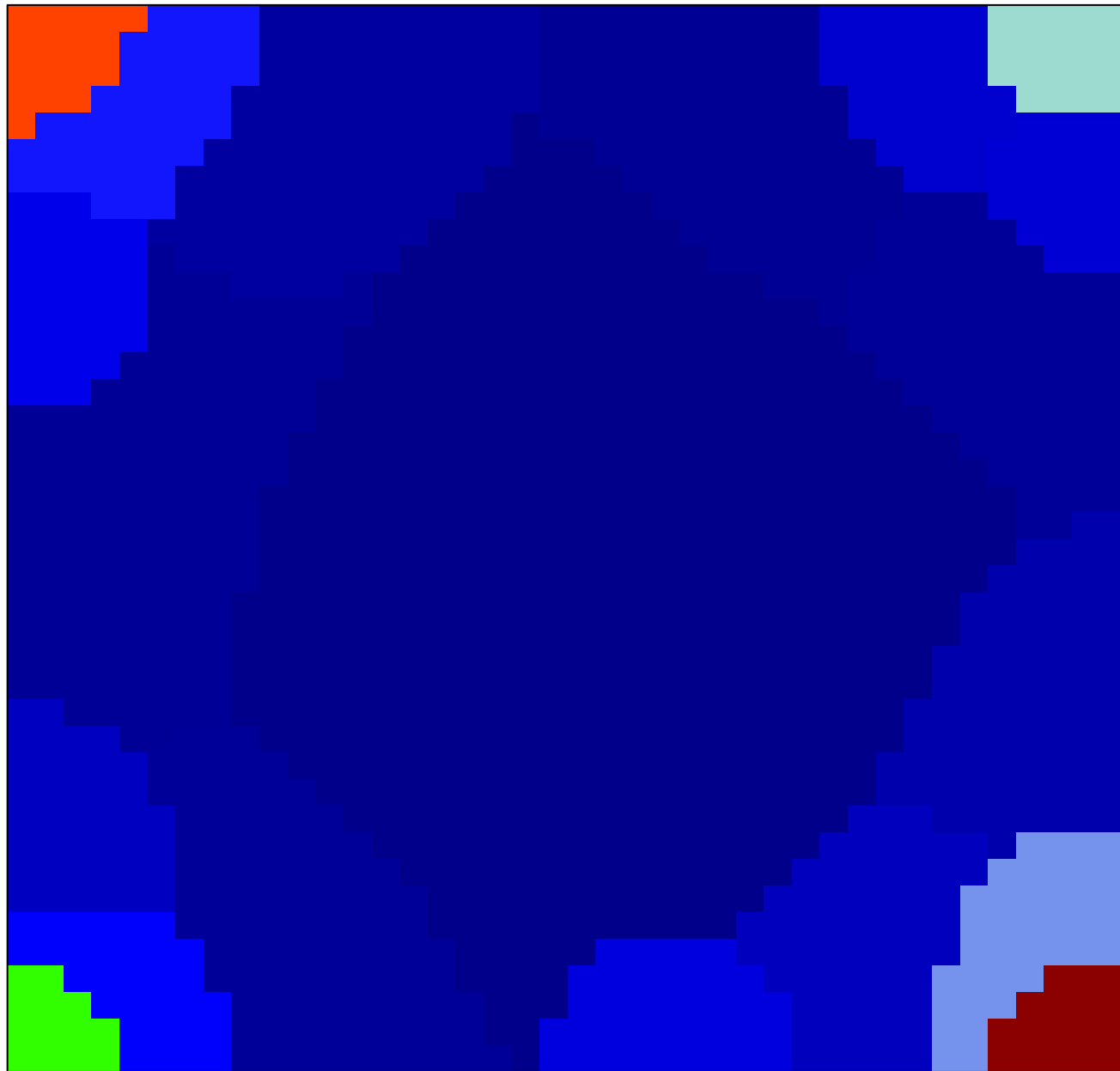
K-Means Clusters

landscape



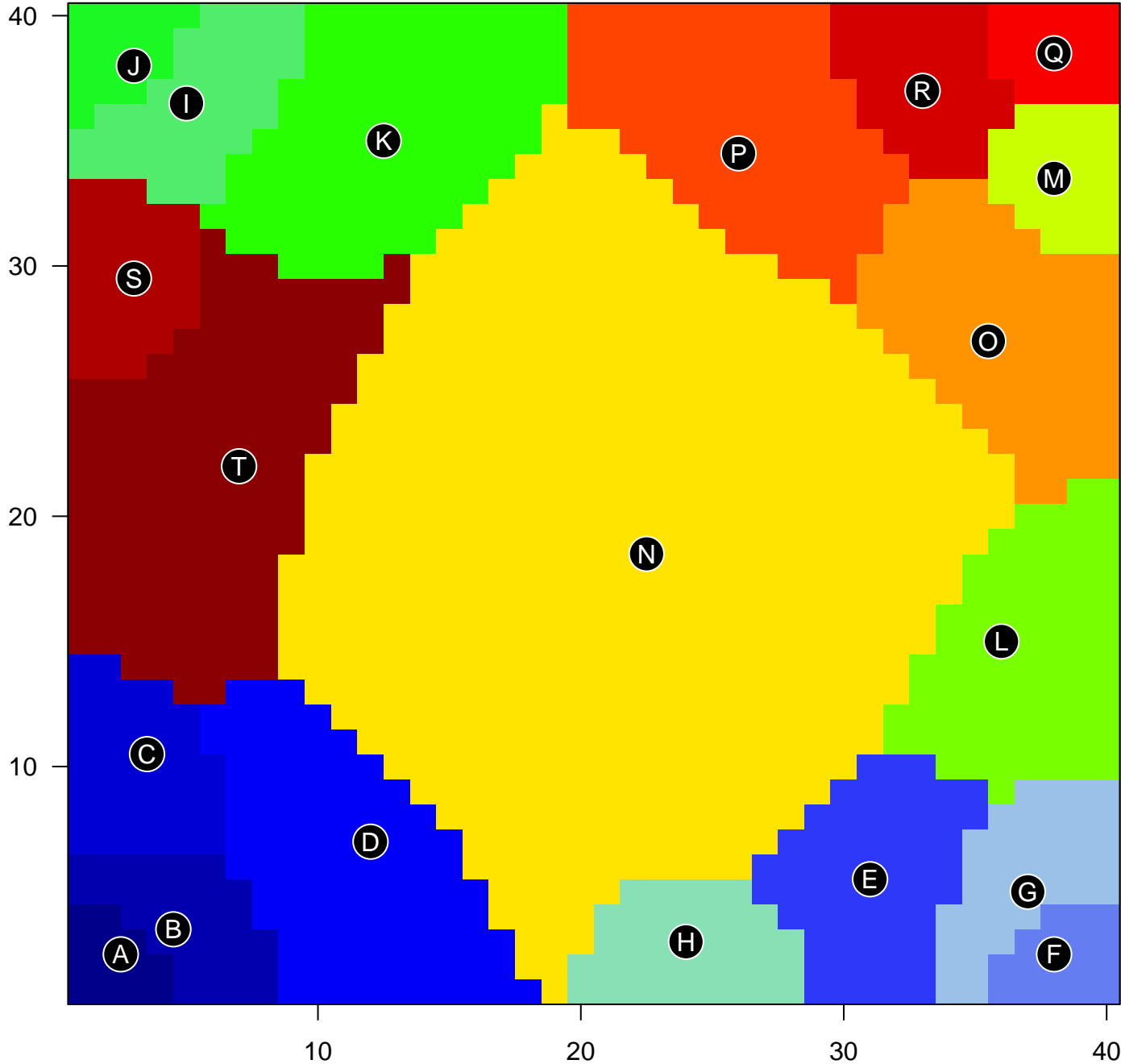
K-Means Clusters

beta-scores

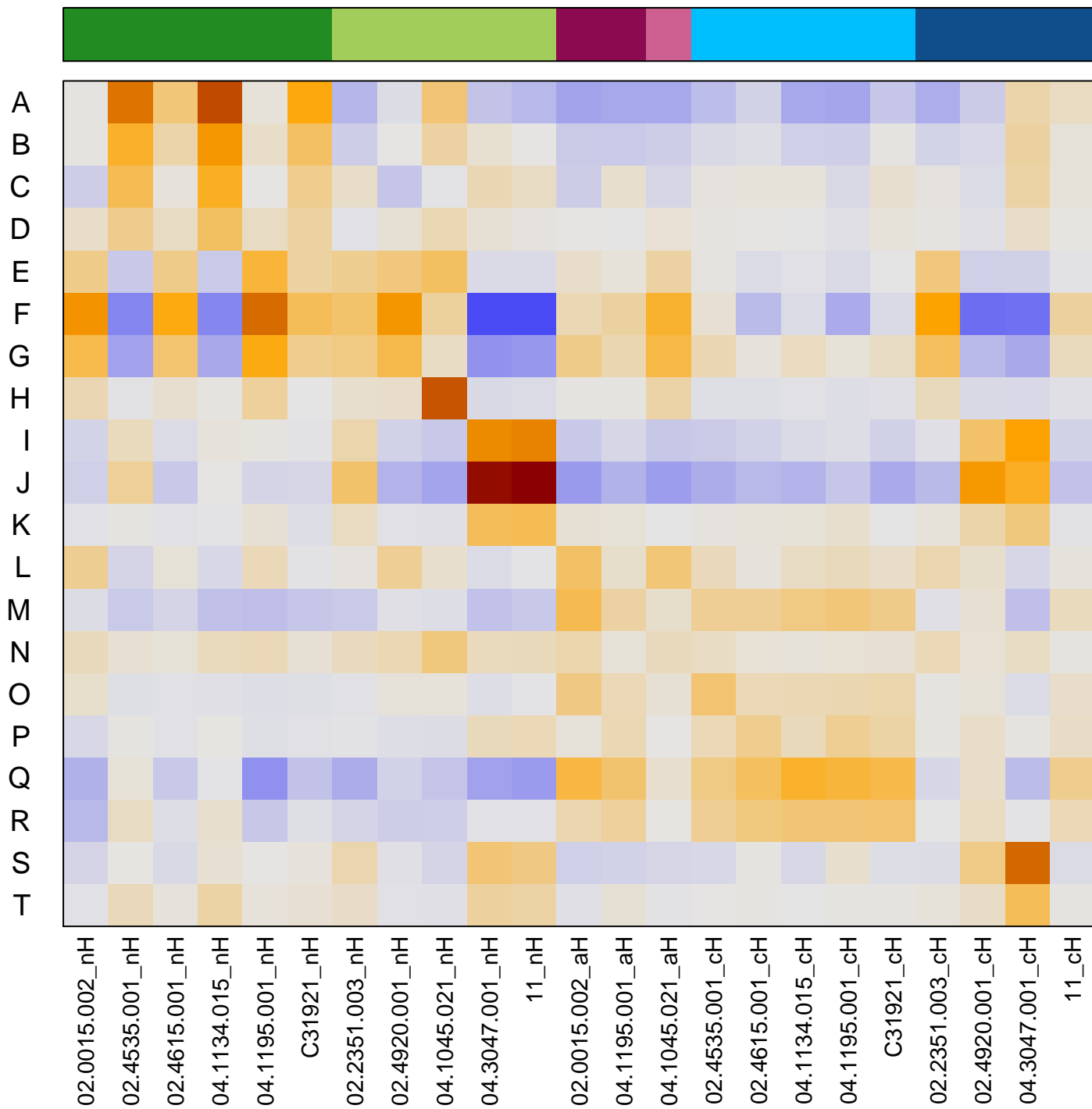


K-Means Clusters

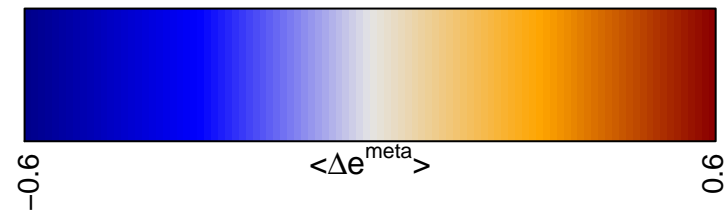
annotation

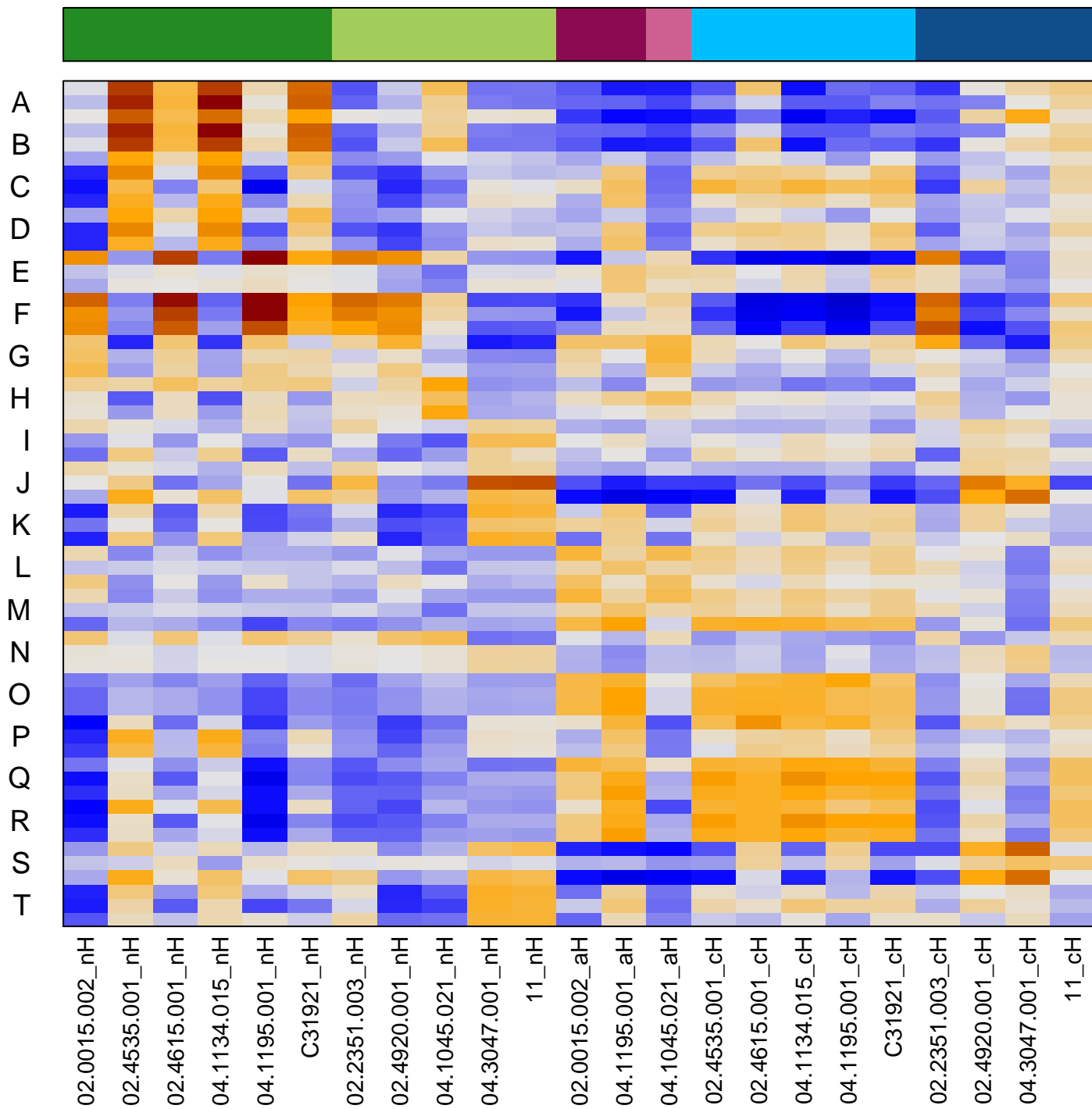


- A ■ Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_0
WIRTH_Immune system
SMID_BREAST_CANCER_NORMAL_LIKE_UP
- B ■ WIRTH_Immune system
Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_0
- C ■ HOPP_Txn_transition
poly(A) RNA binding
HOPP_Txn_elongation
- D ■ HOPP_Strong_enhancer
HOPP_Txn_transition
HOPP_Txn_elongation
- E ■ Pentrack_CRC_TCGA_corr_C_normal_UP
Tx_Colon
TxWk_Colon
- F ■ Pentrack_CRC_TCGA_group.over_A_normal_UP
Pentrack_CRC_TCGA_corr_C_normal_UP
Marisa_CRC-cluster-h
- G ■ WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP
TxEnhG1_Colon
EnhA_Colon
- H ■ SANSOM_APC_TARGETS_DN
small molecule metabolic process
HSIAO_LIVER_SPECIFIC_GENES
- I ■ LIU_PROSTATE_CANCER_DN
Overlap_fetal_midbrain_Quies
Overlap_fetal_midbrain_Het
- J ■ LIU_PROSTATE_CANCER_DN
Marisa_CRC-cluster-b
LINDGREN_BLADDER_CANCER_CLUSTER_2B
- K ■ Overlap_fetal_midbrain_ReprPC
Overlap_fetal_midbrain_K9K27me3
Overlap_fetal_midbrain_HetRpts
- L ■ TssF_Colon
TssA_Colon
TssD2_Colon
- M ■ TssF_Colon
TssA_Colon
Hopp_June14_MMML937_tumors+controls_group.overexpres
- N ■ Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
ReprPC_Colon
ReprPCWk_Colon
- O ■ Lembcke_Normal vs Adenoma
WIRTH_lymphoma937_spot D
Hopp_June14_MMML937_tumors+controls_group.overexpres
- P ■ DODD_NASOPHARYNGEAL_CARCINOMA_DN

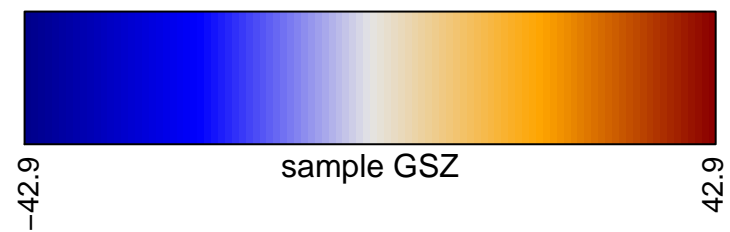


- Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_DN
- WIRTH_Immune_system
- SMID_BREAST_CANCER_NORMAL_LIKE_UP
- WIRTH_Immune_system
- Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_DN
- HOPP_Strong_enhancer
- HOPP_Txn_transition
- poly(A)_RNA_binding
- HOPP_Txn_elongation
- HOPP_Strong_enhancer
- HOPP_Txn_transition
- HOPP_Txn_elongation
- Pentrack_CRC_TCGA_corr_C_normal_UP
- Lx_Colon
- TxWk_Colon
- Pentrack_CRC_TCGA_group.over_A_normal_UP
- Pentrack_CRC_TCGA_corr_C_normal_UP
- Marisa_CRC-cluster-h
- WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP
- LxEnhG1_Colon
- Enna_Colon
- SANSOM_APC_TARGETS_DN
- small_molecule_metabolic_process
- HSTAO_LIVER_SPECIFIC_GENES
- LIU_PROSTATE_CANCER_DN
- Overlap_fetal_midbrain_HetRpts
- Overlap_fetal_midbrain_Het
- LIU_PROSTATE_CANCER_DN
- Marisa_CRC-cluster-b
- LINDGREN_BLADDER_CANCER_CLUSTER_2B
- Overlap_fetal_midbrain_ReprPC
- Overlap_fetal_midbrain_K9K27me3
- Overlap_fetal_midbrain_HetRpts
- TssF_Colon
- TssA_Colon
- TssD2_Colon
- TssF_Colon
- TssA_Colon
- Hopp_June14_MMML937_tumors+controls_group.overexpression_D_cell_line
- Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
- ReprPC_Colon
- ReprPCwk_Colon
- Lembcke_Normal_vs_Adenoma
- WIRTH_lymphoma937_spot_D
- Hopp_June14_MMML937_tumors+controls_group.overexpression_D_cell_line
- DODD_NASOPHARYNGEAL_CARCINOMA_DN
- HOPP_Txn_elongation
- HOPP_Active_promoter
- GRADE_COLON_CANCER_UP
- Pentrack_CRC_TCGA_group.over_C_normal_DN
- CAIRO_HEPATOBLASTOMA_CLASSES_UP
- PUJANA_BRCA1_PCC_NETWORK
- Pentrack_CRC_TCGA_group.over_C_normal_DN
- CAIRO_HEPATOBLASTOMA_CLASSES_UP
- SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
- extracellular_space
- LINDGREN_BLADDER_CANCER_CLUSTER_2B
- Overlap_fetal_midbrain_HetRpts
- Overlap_fetal_midbrain_ReprPC
- Overlap_fetal_midbrain_ReprPCwk





- Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_DN
- WIRTH_Immune_system
- SMID_BREAST_CANCER_NORMAL_LIKE_UP
- WIRTH_Immune_system
- Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_DN
- HOPP_Strong_enhancer
- HOPP_Txn_transition
- poly(A)_RNA_binding
- HOPP_Txn_elongation
- HOPP_Strong_enhancer
- HOPP_Txn_transition
- HOPP_Txn_elongation
- Pentrack_CRC_TCGA_corr_C_normal_UP
- Lx_Colon
- TxWk_Colon
- Pentrack_CRC_TCGA_group.over_A_normal_UP
- Pentrack_CRC_TCGA_corr_C_normal_UP
- Marisa_CRC-cluster-h
- WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP
- LxEnhG1_Colon
- Enna_Colon
- SANSOM_APC_TARGETS_DN
- small_molecule_metabolic_process
- HSTAO_LIVER_SPECIFIC_GENES
- LIU_PROSTATE_CANCER_DN
- Overlap_fetal_midbrain_Quiet
- Overlap_fetal_midbrain_Het
- LIU_PROSTATE_CANCER_DN
- Marisa_CRC-cluster-b
- LINDGREN_BLADDER_CANCER_CLUSTER_2B
- Overlap_fetal_midbrain_ReprPC
- Overlap_fetal_midbrain_K9K27me3
- Overlap_fetal_midbrain_HetRpts
- TssF_Colon
- TssA_Colon
- TssD2_Colon
- TssF_Colon
- TssA_Colon
- Hopp_June14_MMML937_tumors+controls_group.overexpression_D_cell_line
- Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
- ReprPC_Colon
- ReprPCWk_Colon
- Lembcke_Normal_vs_Adenoma
- WIRTH_lymphoma937_spot_D
- Hopp_June14_MMML937_tumors+controls_group.overexpression_D_cell_line
- DODD_NASOPHARYNGEAL_CARCINOMA_DN
- HOPP_Txn_elongation
- HOPP_Active_promoter
- GRADE_COLON_CANCER_UP
- Pentrack_CRC_TCGA_group.over_C_normal_DN
- CAIRO_HEPATOBLASTOMA_CLASSES_UP
- PUJANA_BRCA1_PCC_NETWORK
- Pentrack_CRC_TCGA_group.over_C_normal_DN
- CAIRO_HEPATOBLASTOMA_CLASSES_UP
- SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
- extracellular_space
- LINDGREN_BLADDER_CANCER_CLUSTER_2B
- Overlap_fetal_midbrain_HetRpts
- Overlap_fetal_midbrain_ReprPC
- Overlap_fetal_midbrain_ReprPCWk



K-Means Clusters

Spot Summary: A

metagenes = 13
genes = 262

<r> metagenes = 0.99

<r> genes = 0.77

beta: r2= 0.44 / log p= -3.23

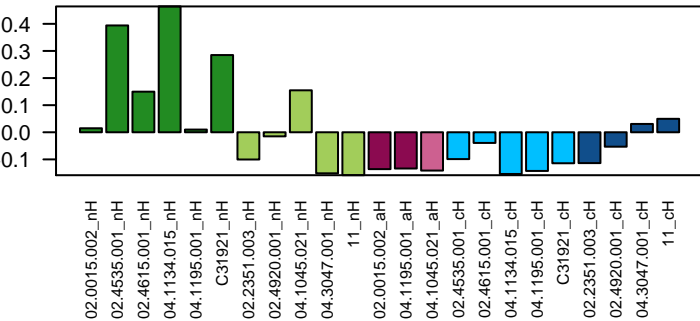
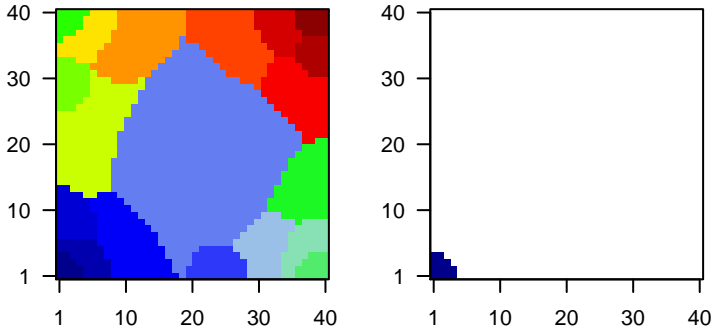
samples with spot = 5 (21.7 %)

MLH1_normHNPCC : 4 (66.7 %)

other_normHNPCC : 1 (20 %)

Overview Map

Spot

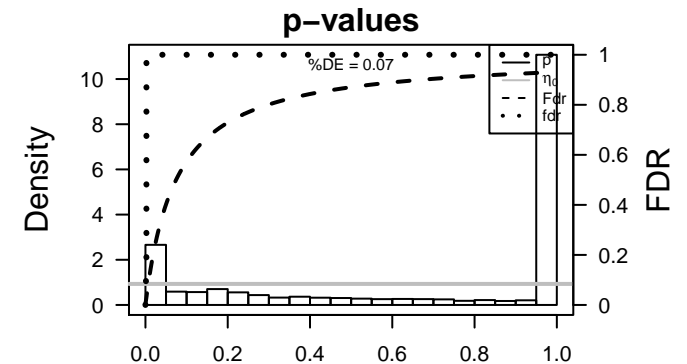


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG00000001	1.4	-0.53	0.84	FDCSP follicular dendritic cell secreted protein [Source:HGNC Symbc
2	ENSG00000001	1.34	-0.7	0.91	CCL21 chemokine (C-C motif) ligand 21 [Source:HGNC Symbol;Acc
3	ENSG00000001	1.14	-0.59	0.93	CCL19 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc
4	ENSG00000001	1.14	-0.52	0.93	CXCL13 chemokine (C-X-C motif) ligand 13 [Source:HGNC Symbol;f
5	ENSG00000002	1.11	-0.68	0.47	UBD ubiquitin D [Source:HGNC Symbol;Acc:HGNC:18795]
6	ENSG00000001	1.01	-0.54	0.94	CD52 CD52 molecule [Source:HGNC Symbol;Acc:HGNC:1804]
7	ENSG00000001	0.95	-0.25	0.94	CR2 complement component (3d/Epstein Barr virus) receptor 2 [S
8	ENSG00000002	0.95	-0.72	0.5	MT-RNR2-like 2 [Source:HGNC Symbol;Acc:HGNC:37156]
9	ENSG00000001	0.93	-0.22	0.98	CCR7 chemokine (C-C motif) receptor 7 [Source:HGNC Symbol;Ac
10	ENSG00000001	0.89	-0.51	0.94	CXCR4 chemokine (C-X-C motif) receptor 4 [Source:HGNC Symbol;
11	ENSG00000001	0.85	-0.35	0.97	LCP1 lymphocyte cytosolic protein 1 (L-plastin) [Source:HGNC Syr
12	ENSG00000002	0.85	-0.8	0.45	MT-RNR2-like 9 [Source:HGNC Symbol;Acc:HGNC:37166]
13	ENSG00000001	0.85	-0.2	0.92	IL7R interleukin 7 receptor [Source:HGNC Symbol;Acc:HGNC:602
14	ENSG00000001	0.84	-0.29	0.97	MS4A1 membrane-spanning 4-domains, subfamily A, member 1 [So
15	ENSG00000001	0.83	-0.25	0.94	GIMAP7 GTPase, IMAP family member 7 [Source:HGNC Symbol;Acc:
16	ENSG00000001	0.82	-0.25	0.93	ETS1 v-ets avian erythroblastosis virus E26 oncogene homolog 1 [
17	ENSG00000001	0.82	-0.39	0.93	CD79A CD79a molecule, immunoglobulin-associated alpha [Source:
18	ENSG00000001	0.81	-0.24	0.98	FCMR Fc fragment of IgM receptor [Source:HGNC Symbol;Acc:HGf
19	ENSG00000000	0.8	-0.2	0.97	PTPRC protein tyrosine phosphatase, receptor type, C [Source:HGNC
20	ENSG00000001	0.79	-0.35	0.98	CD53 CD53 molecule [Source:HGNC Symbol;Acc:HGNC:1686]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	142 / 844	Colon Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_DN
2	4e-94	97 / 427	Tissu WIRTH_Immune system
3	3e-81	89 / 436	GSE/ SMID_BREAST_CANCER_NORMAL_LIKE_UP
4	4e-70	89 / 574	Canci Lembcke_Colonc Inflammation
5	9e-69	68 / 263	GSE/ WALLACE_PROSTATE_CANCER_RACE_UP
6	6e-59	54 / 175	GSE/ LEE_DIFFERENTIATING_T_LYMPHOCYTE
7	2e-51	53 / 220	GSE/ MCLACHLAN_DENTAL_CARIES_UP
8	4e-50	55 / 259	GSE/ POOLA_INVASIVE_BREAST_CANCER_UP
9	1e-48	69 / 522	GSE/ SMID_BREAST_CANCER_LUMINAL_B_DN
10	6e-44	47 / 210	GSE/ MCLACHLAN_DENTAL_CARIES_DN
11	6e-42	54 / 343	BP immune response
12	7e-38	45 / 246	GSE/ QI_PLASMACYTOMA_UP
13	8e-35	199 / 7592	Lymp HOPP_Strong_enhancer
14	3e-33	48 / 368	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_2B
15	5e-30	23 / 51	GSE/ MORI_LARGE_PRE_BII_LYMPHOCYTE_DN
16	4e-29	34 / 181	HM HALLMARK_ALLOGRAFT_REJECTION
17	7e-29	47 / 435	GSE/ RODWELL_AGING_KIDNEY_UP
18	3e-28	39 / 279	Glio WILLSCHER_GBM_Verhaak-CL & MES_up
19	8e-28	25 / 79	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_UP
20	1e-27	15 / 16	CC MHC class II protein complex
21	5e-26	21 / 53	GSE/ KLEIN_PRIMARY_EFFUSION_LYMPHOMA_DN
22	8e-26	33 / 208	Tissu PALMER_B-Cell signature up
23	9e-24	23 / 86	GSE/ WIELAND_UP_BY_HBV_INFECTION
24	1e-23	23 / 87	GSE/ BASSO_CD40_SIGNALING_UP
25	1e-23	38 / 346	GSE/ SANSOM_APC_TARGETS_DN
26	5e-23	28 / 163	GSE/ PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_DN
27	8e-23	31 / 218	GSE/ HOSHIDA_LIVER_CANCER_SUBCLASS_S1
28	1e-22	30 / 201	CC external side of plasma membrane
29	2e-22	18 / 45	GSE/ YU_MYC_TARGETS_DN
30	2e-22	20 / 64	BP T cell costimulation
31	4e-22	68 / 1340	GSE/ PUJANA_ATM_PCC_NETWORK
32	1e-21	22 / 92	BP T cell receptor signaling pathway
33	2e-21	21 / 82	GSE/ MORI_MATURE_B_LYMPHOCYTE_UP
34	3e-21	19 / 61	BP antigen processing and presentation
35	2e-20	61 / 1165	GSE/ CHEN_METABOLIC_SYNDROM_NETWORK
36	4e-20	51 / 823	GSE/ REACTOME_IMMUNE_SYSTEM
37	1e-19	28 / 215	GSE/ JAATINEN_HEMATOPOIETIC_STEM_CELL_DN
38	3e-19	35 / 381	GSE/ KUMAR_TARGETS_OF_MLL_AF9_FUSION
39	3e-19	145 / 5643	Lymp HOPP_Txn_transition
40	4e-19	38 / 466	Lymp SPANG_CD40_6hrs_DN



Rank	p-value	#in/all
1	0.000000	23
2	0.000000	23
3	0.000000	23
4	0.000000	23
5	0.000000	23
6	0.000000	23
7	0.000000	23
8	0.000000	23
9	0.000000	23
10	0.000000	23
11	0.000000	23
12	0.000000	23
13	0.000000	23
14	0.000000	23
15	0.000000	23
16	0.000000	23
17	0.000000	23
18	0.000000	23
19	0.000000	23
20	0.000000	23
21	0.000000	23
22	0.000000	23
23	0.000000	23

Geneset	enriching genes meth UP	depleting genes meth DOWN
1	TESCHENDORFF_age_hypermethylated	
2	HORVATH_ageing_genes meth DOWN	
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		

Rank	p-value	#in/all
1	0.000000	91
2	0.000000	91
3	0.000000	91
4	0.000000	91
5	0.000000	91
6	0.000000	91
7	0.000000	91
8	0.000000	91
9	0.000000	91
10	0.000000	91
11	0.000000	91
12	0.000000	91
13	0.000000	91
14	0.000000	91
15	0.000000	91
16	0.000000	91
17	0.000000	91
18	0.000000	91
19	0.000000	91
20	0.000000	91
21	0.000000	91
22	0.000000	91
23	0.000000	91

Geneset	enriching genes meth UP	depleting genes meth DOWN
1	STANC1_BCL6_index2	
2	CEACAM6_modul18	
3	PanCan_TNFr2_geneset_nanostring	
4	PanCan_TNFr2_geneset_nanostring	
5	PanCan_P3K_geneset_nanostring	
6	PanCan_CC-AdoP_geneset_nanostring	
7	STANC1_modul12	
8	STANC1_modul12	
9	STANC1_modul12	
10	STANC1_modul12	
11	STANC1_modul12	
12	STANC1_modul12	
13	STANC1_modul12	
14	STANC1_modul12	
15	STANC1_modul12	
16	STANC1_modul12	
17	STANC1_modul12	
18	STANC1_modul12	
19	STANC1_modul12	
20	STANC1_modul12	
21	STANC1_modul12	
22	STANC1_modul12	
23	STANC1_modul12	

Rank	p-value	#in/all
1	0.000000	968
2	0.000000	968
3	0.000000	968
4	0.000000	968
5	0.000000	968
6	0.000000	968
7	0.000000	968
8	0.000000	968
9	0.000000	968
10	0.000000	968
11	0.000000	968
12	0.000000	968
13	0.000000	968
14	0.000000	968
15	0.000000	968
16	0.000000	968
17	0.000000	968
18	0.000000	968
19	0.000000	968
20	0.000000	968
21	0.000000	968
22	0.000000	968
23	0.000000	968

Geneset	enriching genes meth UP	depleting genes meth DOWN
1	Lempcke_TCGA_expr_kmeans_E_CIMP_H_UP_Cluster4_DN	
2	Lempcke_TCGA_expr_kmeans_E_CIMP_H_UP_Cluster4_DN	
3	Lempcke_TCGA_meth_kmeans_O_CIMP_H_DN	
4	Lempcke_TCGA_meth_kmeans_O_CIMP_H_DN	
5	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
6	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
7	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
8	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
9	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
10	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
11	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
12	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
13	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
14	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
15	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
16	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
17	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
18	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
19	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
20	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
21	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
22	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	
23	Lempcke_TCGA_meth_kmeans_L_CIMP_H_DN	

Rank	p-value	#in/all
1	0.000000	1340
2	0.000000	1340
3	0.000000	1340
4	0.000000	1340
5	0.000000	1340
6	0.000000	1340
7	0.000000	1340
8	0.000000	1340
9	0.000000	1340
10	0.000000	1340
11	0.000000	1340
12	0.000000	1340
13	0.000000	1340
14	0.000000	1340
15	0.000000	1340
16	0.000000	1340
17	0.000000	1340
18	0.000000	1340
19	0.000000	1340
20	0.000000	1340
21	0.000000	1340
22	0.000000	1340
23	0.000000	1340

Geneset	enriching genes meth UP	depleting genes meth DOWN
1	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
2	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
3	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
4	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
5	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
6	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
7	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
8	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
9	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
10	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
11	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
12	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
13	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
14	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
15	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
16	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
17	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
18	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
19	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
20	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
21	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
22	WALTON_BEST_CANCER_NORMAL_LIKE_UP	
23	WALTON_BEST_CANCER_NORMAL_LIKE_UP	

Rank	p-value	#in/all
1	0.000000	10693
2	0.000000	10693
3	0.000000	10693
4	0.000000	10693
5	0.000000	10693
6	0.000000	10693
7	0.000000	10693
8	0.000000	10693
9	0.000000	10693
10	0.000000	10693
11	0.000000	10693
12	0.000000	10693
13	0.000000	10693
14	0.000000	10693
15	0.000000	10693
16	0.000000	10693
17	0.000000	10693
18	0.000000	10693
19	0.000000	10693
20	0.000000	10693
21	0.000000	10693
22	0.000000	10693
23	0.000000	10693

Geneset	enriching genes meth UP	depleting genes meth DOWN
1	HOPP_lyc_transition	
2	WIRTH_lymphoma937_spot F	
3	WIRTH_lymphoma937_spot F	
4	WIRTH_lymphoma937_spot F	
5	WIRTH_lymphoma937_spot F	
6	WIRTH_lymphoma937_spot F	
7	WIRTH_lymphoma937_spot F	
8	WIRTH_lymphoma937_spot F	
9	WIRTH_lymphoma937_spot F	
10	WIRTH_lymphoma937_spot F	
11	WIRTH_lymphoma937_spot F	
12	WIRTH_lymphoma937_spot F	
13	WIRTH_lymphoma937_spot F	
14	WIRTH_lymphoma937_spot F	
15	WIRTH_lymphoma937_spot F	
16	WIRTH_lymphoma937_spot F	
17	WIRTH_lymphoma937_spot F	
18	WIRTH_lymphoma937_spot F	
19	WIRTH_lymphoma937_spot F	
20	WIRTH_lymphoma937_spot F	
21	WIRTH_lymphoma937_spot F	
22	WIRTH_lymphoma937_spot F	
23	WIRTH_lymphoma937_spot F	

Rank	p-value	#in/all
1	0.000000	4
2	0.000000	4
3	0.000000	4
4	0.000000	4
5	0.000000	4
6	0.000000	4
7	0.000000	4
8	0.000000	4
9	0.000000	4
10	0.000000	4
11	0.000000	4
12	0.000000	4
13	0.000000	4
14	0.000000	4
15	0.000000	4
16	0.000000	4
17	0.000000	4
18	0.000000	4
19	0.000000	4
20	0.000000	4
21	0.000000	4
22	0.000000	4
23	0.000000	4

Geneset	enriching genes meth UP	depleting genes meth DOWN
1	CCNE1_targets	
2	CCNE1_targets	
3	CCNE1_targets	
4	CCNE1_targets	
5	CCNE1_targets	
6	CCNE1_targets	
7	CCNE1_targets	
8	CCNE1_targets	
9	CCNE1_targets	
10	CCNE1_targets	
11	CCNE1_targets	
12	CCNE1_targets	
13	CCNE1_targets	
14	CCNE1_targets	
15	CCNE1_targets	
16	CCNE1_targets	
17	CCNE1_targets	
18	CCNE1_targets	
19	CCNE1_targets	
20	CCNE1_targets	
21	CCNE1_targets	
22	CCNE1_targets	
23	CCNE1_targets	

Rank	p-value	#in/all
1	0.000000	240
2	0.000000	240
3	0.000000	240
4	0.000000	240
5	0.000000	240
6	0.000000	240
7	0.000000	240
8	0.000000	240
9	0.000000	240
10	0.000000	240
11	0.000000	240
12	0.000000	240
13	0.000000	240
14	0.000000	240
15	0.000000	240
16	0.000000	240
17	0.000000	240
18	0.000000	240
19	0.000000	240
20	0.000000	240
21	0.000000	240
22	0.000000	240
23	0.000000	240

Geneset	enriching genes meth UP	depleting genes meth DOWN
1	WIRTH_lymphoma937_spot F	
2	WIRTH_lymphoma937_spot F	
3	WIRTH_lymphoma937_spot F	
4	WIRTH_lymphoma937_spot F	
5	WIRTH_lymphoma937_spot F	
6	WIRTH_lymphoma937_spot F	
7	WIRTH_lymphoma937_spot F	
8	WIRTH_lymphoma937_spot F	
9	WIRTH_lymphoma937_spot F	
10	WIRTH_lymphoma937_spot F	
11	WIRTH_lymphoma937_spot F	
12	WIRTH_lymphoma937_spot F	
13	WIRTH_lymphoma937_spot F	
14	WIRTH_lymphoma937_spot F	
15	WIRTH_lymphoma937_spot F	
16	WIRTH_lymphoma937_spot F	
17	WIRTH_lymphoma937_spot F	
18	WIRTH_lymphoma937_spot F	
19	WIRTH_lymphoma937_spot F	
20	WIRTH_lymphoma937_spot F	
21	WIRTH_lymphoma937_spot F	
22	WIRTH_lymphoma937_spot F	
23	WIRTH_lymphoma937_spot F	

Rank	p-value	#in/all
1	0.000000	279
2	0.000000	279
3	0.000000	279
4	0.000000	279
5	0.000000	279
6	0.000000	279
7	0.000000	279
8	0.000000	279
9	0.000000	279
10	0.000000	279
11	0.000000	279
12	0.000000	279
13	0.000000	279
14	0.000000	279
15	0.000000	279
16	0.000000	279
17	0.000000	279
18	0.000000	279
19	0.000000	279
20	0.000000	279
21	0.000000	279
22	0.000000	279
23	0.000000	279

Geneset	enriching genes meth UP	depleting genes meth DOWN
1	immune response	
2	T cell costimulation	
3	T cell receptor signaling pathway	
4	antigen processing and presentation	
5	antigen processing and presentation of peptide or polysaccharide antigen via MHC class II	
6	T cell receptor signaling pathway	
7	regulation of immune response	
8	interferon-gamma-mediated signaling pathway	
9	positive regulation of T cell proliferation	
10	innate immune response	
11	adaptive immune response	
12	T cell differentiation	
13	B cell activation	

K-Means Clusters

Spot Summary: B

metagenes = 31
genes = 399

<r> metagenes = 0.96

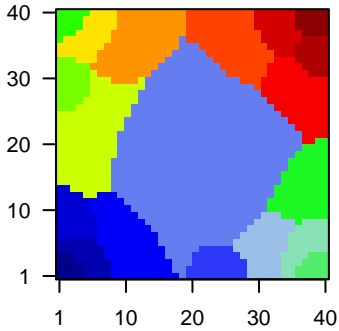
<r> genes = 0.65

beta: r2= 0.14 / log p= -1.08

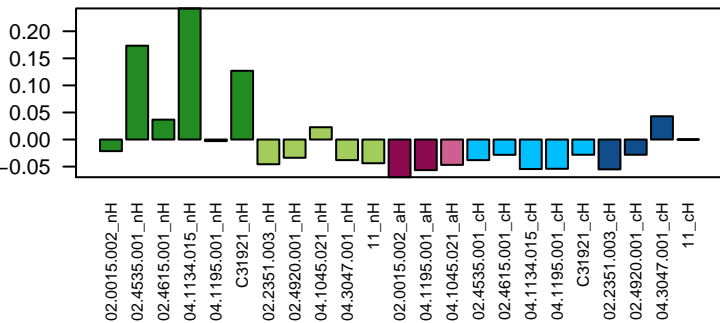
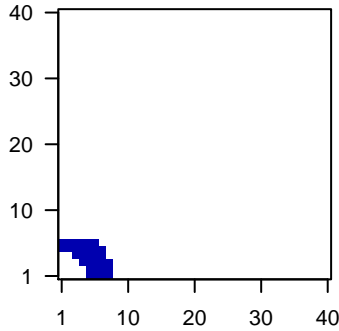
samples with spot = 3 (13 %)

MLH1_normHNPCC : 3 (50 %)

Overview Map



Spot

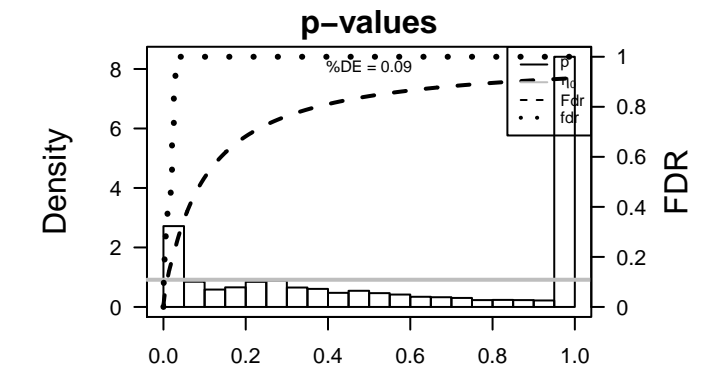


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	0.58	-0.12	0.41	IDO1 indoleamine 2,3-dioxygenase 1 [Source:HGNC Symbol;Acc:ENSG00000187769]
2	ENSG0000001	0.56	-0.14	0.71	S1PR1 sphingosine-1-phosphate receptor 1 [Source:HGNC Symbol;Acc:ENSG00000187769]
3	ENSG0000002	0.51	-0.35	0.76	
4	ENSG0000001	0.49	-0.07	0.91	LEF1 lymphoid enhancer-binding factor 1 [Source:HGNC Symbol;Acc:ENSG00000187769]
5	ENSG0000001	0.49	-0.2	0.62	ARGLU1 arginine and glutamate rich 1 [Source:HGNC Symbol;Acc:HGNC:10888]
6	ENSG0000001	0.48	-0.24	0.65	GOLGA8 golgin A8 family, member A [Source:HGNC Symbol;Acc:HGNC:10888]
7	ENSG0000001	0.46	-0.28	0.74	
8	ENSG0000002	0.46	-0.19	0.76	GOLGA8 golgin A8 family, member B [Source:HGNC Symbol;Acc:HGNC:10888]
9	ENSG0000001	0.44	-0.25	0.48	DUSP5 dual specificity phosphatase 5 [Source:HGNC Symbol;Acc:HGNC:10888]
10	ENSG0000001	0.44	-0.06	0.92	GPR15 G protein-coupled receptor 15 [Source:HGNC Symbol;Acc:HGNC:10888]
11	ENSG0000001	0.44	-0.29	0.28	TAP1 transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) [Source:HGNC Symbol;Acc:ENSG00000187769]
12	ENSG0000001	0.44	-0.23	0.47	STAT1 signal transducer and activator of transcription 1, 91kDa [Source:HGNC Symbol;Acc:ENSG00000187769]
13	ENSG0000002	0.44	-0.4	0.57	NPIP11 nuclear pore complex interacting protein family, member B11 [Source:UniProtKB/Swiss-Prot]
14	ENSG0000001	0.43	-0.17	0.75	OGT O-linked N-acetylglucosamine (GlcNAc) transferase [Source:HGNC Symbol;Acc:ENSG00000187769]
15	ENSG0000000	0.42	-0.15	0.89	TRIB2 tribbles pseudokinase 2 [Source:HGNC Symbol;Acc:HGNC:10888]
16	ENSG0000001	0.42	-0.21	0.8	DDX17 DEAD (Asp-Glu-Ala-Asp) box helicase 17 [Source:HGNC Symbol;Acc:ENSG00000187769]
17	ENSG0000001	0.42	-0.26	0.34	C1QB complement component 1, q subcomponent, B chain [Source:HGNC Symbol;Acc:ENSG00000187769]
18	ENSG0000002	0.42	-0.33	0.72	
19	ENSG0000001	0.42	-0.39	0.59	NPIP4 Putative NPIP-like protein LOC613037 [Source:UniProtKB/Swiss-Prot]
20	ENSG0000001	0.42	-0.38	0.6	nuclear pore complex interacting protein family, member B3 [Source:UniProtKB/Swiss-Prot]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	4e-82	103 / 427	Tissue WIRTH_Immune system
2	3e-66	118 / 844	Colon Lembecke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
3	6e-54	303 / 7592	Lymph HOPP_Strong_enhancer
4	1e-40	241 / 5643	Lymph HOPP_Txn_transition
5	6e-40	76 / 574	Cancer Lembecke_Colonc Inflammation
6	2e-37	109 / 1340	GSE/ PUJANA_ATM_PCC_NETWORK
7	2e-33	61 / 436	GSE/ SMID_BREAST_CANCER_NORMAL_LIKE_UP
8	2e-29	39 / 175	GSE/ LEE_DIFFERENTIATING_T_LYMPHOCYTE
9	1e-28	58 / 473	GSE/ ZHENG_BOUND_BY_FOXP3
10	1e-27	49 / 336	Lymph Hopp_June14_MMML937 tumors+controls_group.overexpression_H_GC-DN
11	5e-27	49 / 347	Lymph WIRTH_lymphoma937_spot H
12	6e-26	128 / 2401	TF ICGC_Bcl11_targets
13	8e-25	84 / 1165	GSE/ CHEN_METABOLIC_SYNDROM_NETWORK
14	2e-22	39 / 263	GSE/ WALLACE_PROSTATE_CANCER_RACE_UP
15	2e-21	245 / 7491	Lymph HOPP_Txn_elongation
16	3e-21	91 / 1523	TF ICGC_P300_targets
17	1e-19	35 / 246	GSE/ QI_PLASMACYTOMA_UP
18	2e-18	33 / 236	GSE/ RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_DN
19	3e-18	105 / 2133	TF ICGC_Cebpbsc150_targets
20	3e-18	174 / 4714	TF ICGC_Pu1_targets
21	5e-18	105 / 2149	TF ICGC_Mef2_targets
22	7e-18	36 / 297	GSE/ DEURIG_T_CELL_PROLYMPHOCYTIC_LEUKEMIA_DN
23	1e-17	137 / 3305	TF ICGC_BatfPcr1_targets
24	3e-17	59 / 823	GSE/ REACTOME_IMMUNE_SYSTEM
25	4e-17	96 / 1914	GSE/ PILON_KLF1_TARGETS_DN
26	4e-17	37 / 332	Color Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
27	1e-16	17 / 51	GSE/ LEE_EARLY_T_LYMPHOCYTE_DN
28	2e-16	72 / 1215	Lymph SPANG_BCR_DN
29	3e-16	130 / 3177	TF ICGC_Irf4_targets
30	3e-16	29 / 208	Tissue PALMER_B-Cell signature up
31	7e-16	20 / 87	GSE/ BASSO_CD40_SIGNALING_UP
32	9e-16	156 / 4230	TF ICGC_Nfatc1_targets
33	2e-15	186 / 5512	TF ICGC_Nficsc81335_targets
34	2e-15	40 / 435	GSE/ RODWELL_AGING_KIDNEY_UP
35	3e-15	27 / 192	GSE/ ZHENG_FOXP3_TARGETS_IN_THYMUS_UP
36	5e-15	35 / 343	BP immune response
37	2e-14	23 / 145	Lymph WIRTH_lymphoma937_spot F
38	2e-14	23 / 145	Lymph Hopp_June14_MMML937 tumors+controls_group.overexpression_F_FL-DN
39	5e-14	123 / 3122	Color TxEnhG1_Colon
40	6e-14	115 / 2827	TF ICGC_Bcl3_targets



K-Means Clusters

Spot Summary: C

metagenes = 40
genes = 502

<r> metagenes = 0.93

<r> genes = 0.55

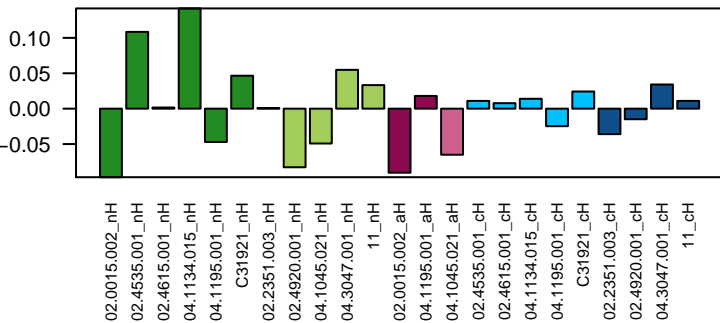
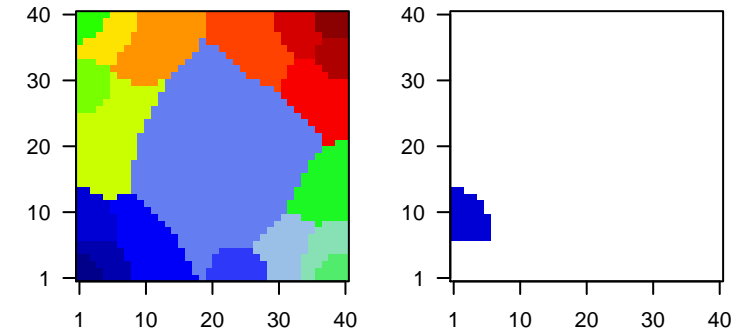
beta: r2= 0.06 / log p= -0.61

samples with spot = 2 (8.7 %)

MLH1_normHNPCC : 2 (33.3 %)

Overview Map

Spot

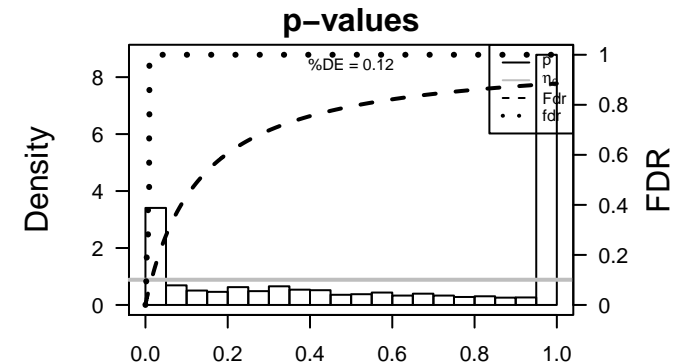


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG00000001	0.54	-0.37	0.72	BHLHE40 basic helix-loop-helix family, member e40 [Source:HGNC Sy
2	ENSG00000002	0.52	-0.34	0.57	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:M0
3	ENSG00000001	0.39	-0.24	0.77	HIF1A hypoxia inducible factor 1, alpha subunit (basic helix-loop-he
4	ENSG00000001	0.39	-0.34	0.89	TMEM129 transmembrane protein 123 [Source:HGNC Symbol;Acc:HGN
5	ENSG00000002	0.38	-0.2	0.79	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:H3I
6	ENSG00000001	0.37	-0.23	0.47	CCNG1 cyclin G1 [Source:HGNC Symbol;Acc:HGNC:1592]
7	ENSG00000001	0.37	-0.22	0.42	RPS15A ribosomal protein S15a [Source:HGNC Symbol;Acc:HGNC:11
8	ENSG00000001	0.36	-0.26	0.88	HNRNPDL heterogeneous nuclear ribonucleoprotein D-like [Source:HG
9	ENSG00000001	0.35	-0.2	0.42	TOMM7 translocase of outer mitochondrial membrane 7 homolog (yea
10	ENSG00000001	0.35	-0.19	0.82	SLC38A1 solute carrier family 38, member 1 [Source:HGNC Symbol;Ac
11	ENSG00000001	0.33	-0.16	0.74	SRSF11 serine/arginine-rich splicing factor 11 [Source:HGNC Symbol
12	ENSG00000001	0.33	-0.34	0.43	
13	ENSG00000000	0.33	-0.22	0.75	SYPL1 synaptophysin-like 1 [Source:HGNC Symbol;Acc:HGNC:1151
14	ENSG00000001	0.32	-0.24	0.66	RPL10 ribosomal protein L10 [Source:HGNC Symbol;Acc:HGNC:10
15	ENSG00000001	0.32	-0.23	0.86	EIF3L eukaryotic translation initiation factor 3, subunit L [Source:HG
16	ENSG00000000	0.32	-0.3	0.89	EIF4B eukaryotic translation initiation factor 4B [Source:HGNC Sym
17	ENSG00000001	0.32	-0.21	0.55	SNRNP70 small nuclear ribonucleoprotein 70kDa (U1) [Source:HGNC S
18	ENSG00000000	0.31	-0.12	0.65	U2AF2 U2 small nuclear RNA auxiliary factor 2 [Source:HGNC Synt
19	ENSG00000002	0.31	-0.19	0.54	C6orf48 chromosome 6 open reading frame 48 [Source:HGNC Symb
20	ENSG00000001	0.31	-0.3	0.75	RPS25 ribosomal protein S25 [Source:HGNC Symbol;Acc:HGNC:10

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-90	357 / 5643	Lymph HOPP_Txn_transition
2	5e-87	168 / 1091	MF poly(A) RNA binding
3	4e-71	382 / 7491	Lymph HOPP_Txn_elongation
4	5e-68	437 / 10239	Brain Overlap_fetal_midbrain_ReprPC
5	3e-66	345 / 6320	Brain Overlap_fetal_midbrain_HetRpts
6	1e-63	426 / 9930	Colon Tx_Colon
7	2e-57	407 / 9390	Colon TxWk_Colon
8	4e-55	426 / 10475	Colon TssA_Colon
9	3e-54	146 / 1340	GSE/ PUJANA_ATM_PCC_NETWORK
10	6e-54	157 / 1563	GSE/ PUJANA_BRCA1_PCC_NETWORK
11	9e-52	198 / 2554	CC nucleoplasm
12	4e-50	373 / 8358	Lymph HOPP_Active_promoter
13	3e-42	396 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
14	4e-39	57 / 237	BP RNA splicing
15	5e-39	79 / 513	MF RNA binding
16	3e-38	93 / 747	GSE/ PUJANA_CHEK2_PCC_NETWORK
17	2e-37	124 / 1352	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
18	2e-37	50 / 182	BP mRNA splicing, via spliceosome
19	2e-35	258 / 5101	CC nucleus
20	3e-34	42 / 134	GSE/ REACTOME_PROCESSING_OF_CAPPED_INTRON_CONTAINING_PRE
21	2e-33	91 / 820	BP gene expression
22	5e-33	43 / 151	GSE/ REACTOME_MRNA_PROCESSING
23	2e-32	37 / 105	GSE/ REACTOME_MRNA_SPLICING
24	4e-27	98 / 1134	MF nucleic acid binding
25	5e-27	41 / 183	BP mRNA processing
26	2e-25	49 / 300	miRN hsa-miR-186
27	3e-25	57 / 420	GSE/ SHEN_SMARCA2_TARGETS_UP
28	5e-25	320 / 8147	Lymph HOPP_Weak_promoter
29	7e-25	72 / 685	GSE/ SCHLOSSER_SERUM_RESPONSE_DN
30	1e-24	54 / 385	MF nucleotide binding
31	3e-24	351 / 9470	Color Quies3_Colon
32	1e-22	123 / 1914	GSE/ PILON_KLF1_TARGETS_DN
33	2e-22	48 / 334	miRN hsa-miR-590-3p
34	5e-22	60 / 539	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP
35	5e-22	114 / 1713	GSE/ GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_DN
36	8e-22	376 / 10800	Brain Overlap_fetal_midbrain_Quies
37	8e-22	69 / 713	Color Pentrack_CRC_TCGA_group.over_C_normal_DN
38	1e-21	76 / 855	Brain Overlap_fetal_midbrain_ZNF
39	4e-21	55 / 475	GSE/ ENK_UV_RESPONSE_KERATINOCYTE_DN
40	2e-20	73 / 834	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN



K-Means Clusters

Spot Summary: D

metagenes = 99
genes = 901

<r> metagenes = 0.83
<r> genes = 0.39
beta: r2= 0.02 / log p= -0.27

samples with spot = 0 (0 %)

Spot Genelist

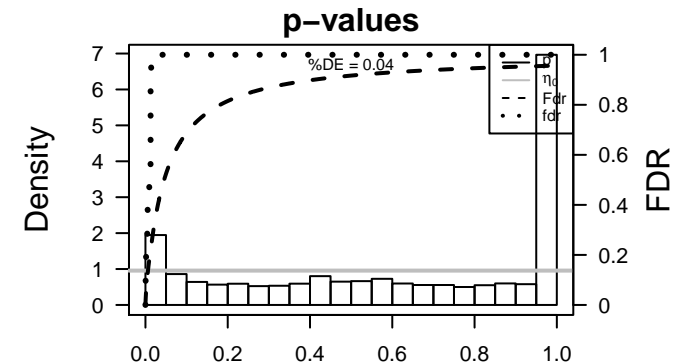
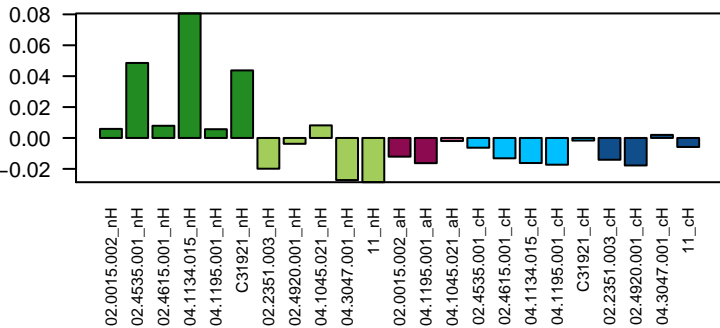
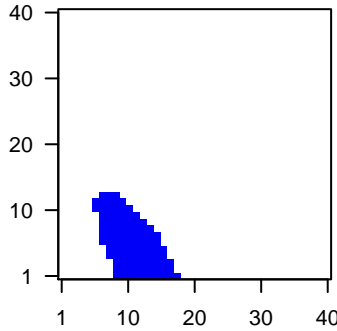
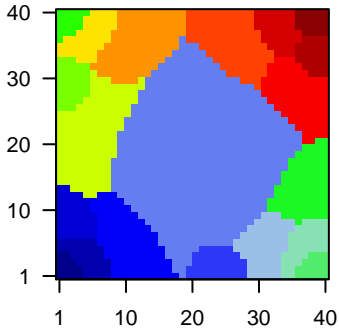
Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	0.46	-0.14	0.36	CENPT centromere protein T [Source:HGNC Symbol;Acc:HGNC:257]
2	ENSG0000001	0.39	-0.2	0.34	IRF1 interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:257]
3	ENSG0000001	0.37	-0.11	0.2	
4	ENSG0000001	0.35	-0.07	0.25	ABCC5 ATP-binding cassette, sub-family C (CFTR/MRP), member 5
5	ENSG0000000	0.33	-0.14	0.33	TYMP thymidine phosphorylase [Source:HGNC Symbol;Acc:HGNC:257]
6	ENSG0000001	0.33	-0.1	0.2	OAS3 2'-5'-oligoadenylate synthetase 3, 100kDa [Source:HGNC Symbol;Acc:HGNC:257]
7	ENSG0000001	0.32	-0.21	0.44	CDK5RAP2 CDK5 regulatory subunit associated protein 3 [Source:HGNC Symbol;Acc:HGNC:257]
8	ENSG0000002	0.31	-0.09	0.24	APOL6 apolipoprotein L, 6 [Source:HGNC Symbol;Acc:HGNC:14870]
9	ENSG0000001	0.31	-0.14	0.14	LDLR low density lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:257]
10	ENSG0000000	0.3	-0.12	0.27	AKR1B1 aldo-keto reductase family 1, member B1 (aldose reductase)
11	ENSG0000000	0.29	-0.18	0.26	TYROBP protein tyrosine kinase binding protein [Source:HGNC Symbol;Acc:HGNC:257]
12	ENSG0000001	0.29	-0.1	0.58	TRANK1 tetraatricopeptide repeat and ankyrin repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:257]
13	ENSG0000001	0.29	-0.1	0.56	OTUD1 OTU deubiquitinase 1 [Source:HGNC Symbol;Acc:HGNC:272]
14	ENSG0000001	0.29	-0.13	0.5	CCDC88B coiled-coil domain containing 88B [Source:HGNC Symbol;Acc:HGNC:257]
15	ENSG0000001	0.28	-0.18	0.39	PFDN5 prefoldin subunit 5 [Source:HGNC Symbol;Acc:HGNC:8869]
16	ENSG0000000	0.27	-0.02	0.29	DDX3Y DEAD (Asp-Glu-Ala-Asp) box helicase 3, Y-linked [Source:HGNC Symbol;Acc:HGNC:257]
17	ENSG0000000	0.27	-0.02	0.34	KDM5D lysine (K)-specific demethylase 5D [Source:HGNC Symbol;Acc:HGNC:257]
18	ENSG0000001	0.26	-0.1	0.26	PLEC plectin [Source:HGNC Symbol;Acc:HGNC:9069]
19	ENSG0000002	0.26	-0.14	0.51	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:UniProtKB:Q96990]
20	ENSG0000002	0.26	-0.16	0.42	IRF9 interferon regulatory factor 9 [Source:HGNC Symbol;Acc:HGNC:257]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	7e-61	588 / 7592	Lymp HOPP_Strong_enhancer
2	3e-56	481 / 5643	Lymp HOPP_Txn_transition
3	1e-46	553 / 7491	Lymp HOPP_Txn_elongation
4	1e-39	104 / 500	Lymp WIRTH_lymphoma937_spot J
5	5e-34	95 / 484	Lymp Hopp_June14_MMML937_tumors+controls_group.overexpression_J_GC-E
6	1e-33	128 / 844	Colon Lembecke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
7	2e-30	623 / 9930	Colon Tx_Colon
8	1e-29	597 / 9390	Colon TxWk_Colon
9	2e-24	76 / 427	Tissu WIRTH_Immune system
10	8e-24	627 / 10475	Colon TssA_Colon
11	4e-23	390 / 5512	TF ICGC_Nficsc81335_targets
12	5e-20	338 / 4714	TF ICGC_Pu1_targets
13	5e-20	519 / 8358	Lymp HOPP_Active_promoter
14	7e-19	128 / 1215	Lymp SPANG_BCR DN
15	9e-19	347 / 4969	TF ICGC_Atf2_targets
16	4e-18	563 / 9470	Colon Quies3_Colon
17	9e-18	354 / 5173	TF ICGC_Taf1_targets
18	8e-17	250 / 3305	TF ICGC_BatfPcr1_targets
19	1e-16	371 / 5578	TF ICGC_Stat5_targets
20	2e-16	407 / 6313	TF ICGC_Pou2_targets
21	2e-16	56 / 347	Lymp WIRTH_lymphoma937_spot H
22	7e-16	492 / 8123	Colon TssF_Colon
23	1e-15	54 / 336	Lymp Hopp_June14_MMML937_tumors+controls_group.overexpression_H_GC-E
24	1e-15	239 / 3177	TF ICGC_Irf4_targets
25	1e-15	309 / 4470	TF ICGC_Creb1_targets
26	1e-15	314 / 4566	TF ICGC_Egr1_targets
27	6e-15	192 / 2401	TF ICGC_Bcl11_targets
28	6e-15	177 / 2149	TF ICGC_Mef2_targets
29	6e-15	401 / 6320	Brain Overlap_fetal_midbrain_HetRpts
30	7e-15	49 / 297	GSE/ DEURIG_T_CELL_PROLYMPHOCTIC_LEUKEMIA_DN
31	8e-15	333 / 4987	TF ICGC_Bclaf101388_targets
32	4e-14	354 / 5453	TF ICGC_Foxm1_targets
33	5e-14	160 / 1914	GSE/ PILON_KLF1_TARGETS_DN
34	1e-13	655 / 11968	Colon TssWk_Colon
35	3e-13	386 / 6157	TF ICGC_Tcf3_targets
36	4e-13	170 / 2133	TF ICGC_Cebpbc150_targets
37	5e-13	353 / 5526	TF ICGC_Pmlsc71910_targets
38	6e-13	194 / 2554	CC nucleoplasm
39	9e-13	46 / 301	GSE/ GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN
40	1e-12	375 / 6005	TF ICGC_Mta3_targets

Overview Map

Spot



K-Means Clusters

Spot Summary: E

metagenes = 60
genes = 642

<r> metagenes = 0.9

<r> genes = 0.44

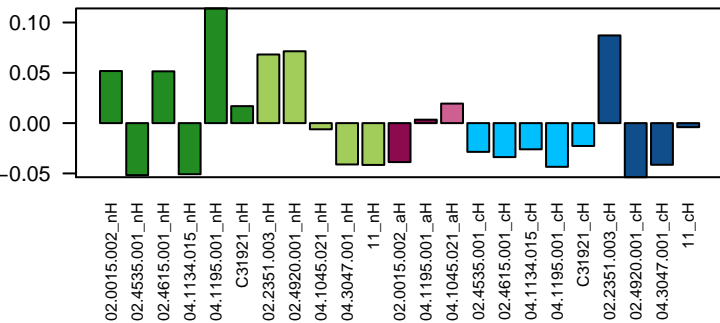
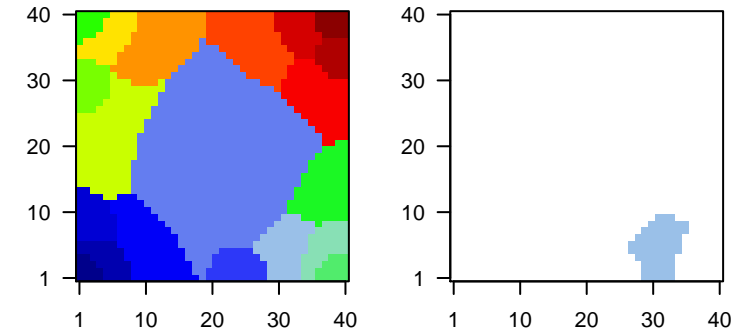
beta: r2= 0.06 / log p= -0.58

samples with spot = 1 (4.3 %)

MLH1_normHNPCC : 1 (16.7 %)

Overview Map

Spot

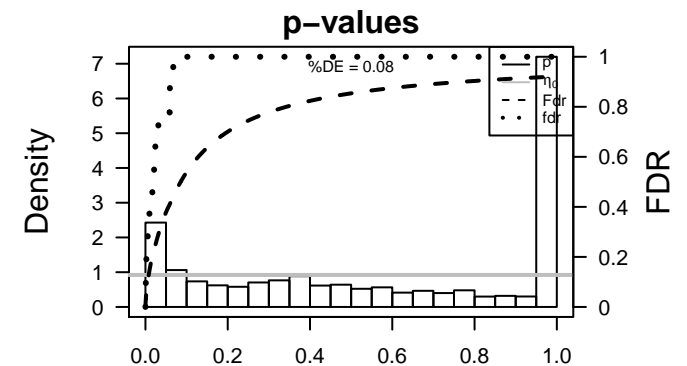


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG0000001	0.64	-0.07	0.41	HSPB3 heat shock 27kDa protein 3 [Source:HGNC Symbol;Acc:HGNC:10000]
2	ENSG0000001	0.62	-0.05	0.21	CSF3 colony stimulating factor 3 (granulocyte) [Source:HGNC Synt
3	ENSG0000001	0.6	-0.11	0.41	RETNLB resistin like beta [Source:HGNC Symbol;Acc:HGNC:20388]
4	ENSG0000001	0.58	-0.49	0.48	MT1E metallothionein 1E [Source:HGNC Symbol;Acc:HGNC:7397]
5	ENSG0000001	0.49	-0.1	0.72	DDX60 DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 [Source:HGNC
6	ENSG0000001	0.48	-0.09	0.38	ATOH1 atonal bHLH transcription factor 1 [Source:HGNC Symbol;Acc
7	ENSG0000001	0.47	-0.08	0.6	SPINK5 serine peptidase inhibitor, Kazal type 5 [Source:HGNC Symb
8	ENSG0000001	0.45	-0.07	0.45	IL1R2 interleukin 1 receptor, type II [Source:HGNC Symbol;Acc:HGNC
9	ENSG0000002	0.44	-0.12	0.67	SAMD9 sterile alpha motif domain containing 9 [Source:HGNC Symb
10	ENSG0000001	0.43	-0.1	0.85	CLIC5 chloride intracellular channel 5 [Source:HGNC Symbol;Acc:H
11	ENSG0000001	0.42	-0.2	0.76	MXI1 MAX interactor 1, dimerization protein [Source:HGNC Symb
12	ENSG0000001	0.42	-0.08	0.57	TPSG1 tryptase gamma 1 [Source:HGNC Symbol;Acc:HGNC:14134]
13	ENSG0000001	0.41	-0.1	0.49	FFAR4 free fatty acid receptor 4 [Source:HGNC Symbol;Acc:HGNC:1
14	ENSG0000001	0.4	-0.07	0.2	CHGA chromogranin A [Source:HGNC Symbol;Acc:HGNC:1929]
15	ENSG0000001	0.4	-0.06	0.5	DISP2 dispatched homolog 2 (Drosophila) [Source:HGNC Symbol;A
16	ENSG0000001	0.4	-0.08	0.58	CAPN9 calpain 9 [Source:HGNC Symbol;Acc:HGNC:1486]
17	ENSG0000001	0.4	-0.18	0.31	RASL11ARAS-like, family 11, member A [Source:HGNC Symbol;Acc:HGNC
18	ENSG0000001	0.39	-0.33	0.46	ID3 inhibitor of DNA binding 3, dominant negative helix-loop-heli
19	ENSG0000001	0.39	-0.09	0.59	ZFAND2zinc finger, AN1-type domain 2A [Source:HGNC Symbol;Acc
20	ENSG0000001	0.39	-0.05	0.53	CMPK2 cytidine monophosphate (UMP-CMP) kinase 2, mitochondria

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-52	104 / 507	Colon Pentrack_CRC_TCGA_corr_C_normal_UP
2	4e-46	501 / 9930	Colon Tx_Colon
3	2e-45	484 / 9390	Colon TxWk_Colon
4	2e-45	486 / 9470	Colon Quies3_Colon
5	5e-37	348 / 5889	Colon EnhWk1_Colon
6	9e-35	495 / 10475	Colon TssA_Colon
7	3e-26	514 / 11791	Colon Enh_Colon
8	1e-24	515 / 11968	Colon TssWk_Colon
9	7e-22	78 / 682	GSE/ CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_3
10	4e-20	60 / 453	GSE/ CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_5
11	1e-18	449 / 10278	Brain Overlap_fetal_midbrain_ReprPCWk
12	1e-17	188 / 3112	Colon EnhA_Colon
13	2e-17	188 / 3122	Colon TxEnhG1_Colon
14	4e-16	457 / 10800	Brain Overlap_fetal_midbrain_Quies
15	3e-14	364 / 8123	Colon TssF_Colon
16	2e-13	314 / 6761	Colon TssD2_Colon
17	2e-13	52 / 495	GSE/ DUTERTRE ESTRADIOL_RESPONSE_24HR_DN
18	3e-13	55 / 549	GSE/ MASSARWEH_TAMOXIFEN_RESISTANCE_UP
19	5e-13	68 / 786	GSE/ KOINUMA_TARGETS_OF_SMAD2_OR_SMAD3
20	2e-12	365 / 8358	Lymp HOPP_Active_promoter
21	2e-11	76 / 1005	GSE/ NUYTTEN_EZH2_TARGETS_UP
22	3e-11	65 / 804	GSE/ CUI_TCF21_TARGETS_2_DN
23	8e-11	21 / 110	Colon Marisa_CRC-cluster-h
24	1e-10	328 / 7491	Lymp HOPP_Txn_elongation
25	2e-10	349 / 8147	Lymp HOPP_Weak_promoter
26	2e-10	32 / 261	GSE/ DURCHDEWALD_SKIN_CARCINOGENESIS_DN
27	2e-10	49 / 541	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_DN
28	4e-10	54 / 641	GSE/ FEVR_CTNNB1_TARGETS_UP
29	4e-10	46 / 497	CC Golgi membrane
30	4e-10	22 / 132	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_UP
31	1e-09	38 / 377	GSE/ STEIN_ESRRA_TARGETS_UP
32	3e-09	44 / 490	GSE/ ENK_UV_RESPONSE_EPIDERMIS_DN
33	3e-09	413 / 10239	Brain Overlap_fetal_midbrain_ReprPC
34	4e-09	402 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
35	6e-09	29 / 251	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP
36	2e-08	277 / 6320	Brain Overlap_fetal_midbrain_HetRpts
37	2e-08	41 / 468	GSE/ ZWANG_CLASS_1_TRANSIENTLY_INDUCED_BY_EGF
38	6e-08	54 / 740	GSE/ FORTSCHEGGER_PHF8_TARGETS_DN
39	6e-08	27 / 246	CC endosome
40	1e-07	34 / 370	GSE/ RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN



K-Means Clusters

Spot Summary: F

metagenes = 17
genes = 299

<r> metagenes = 0.98

<r> genes = 0.66

beta: r2= 0.82 / log p= -8.53

samples with spot = 8 (34.8 %)

MLH1_normHNPCC : 4 (66.7 %)

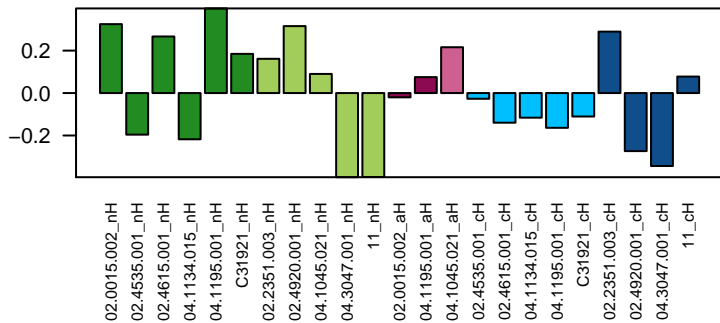
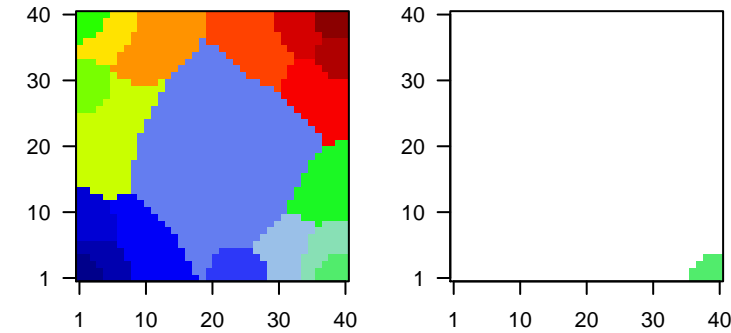
other_normHNPCC : 2 (40 %)

other_adenomaHNPCC : 1 (100 %)

other_cancerHNPCC : 1 (25 %)

Overview Map

Spot

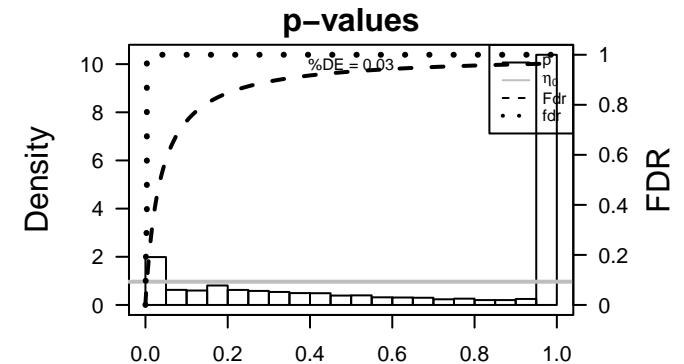


Spot Genelist

Rank	ID	max e	min e	Description
1	ENSG000002	1.55	-0.86	0.89 PHGR1 proline/histidine/glycine-rich 1 [Source:HGNC Symbol;Acc:HGNC:10000]
2	ENSG000001	1.42	-0.99	0.89 GUCA2Aguanylate cyclase activator 2A (guanylin) [Source:HGNC Syrn]
3	ENSG000001	1.33	-0.38	0.49 PP7080 uncharacterized LOC25845 [Source:EntrezGene;Acc:25845]
4	ENSG000001	1.3	-0.63	0.75 AQP8 aquaporin 8 [Source:HGNC Symbol;Acc:HGNC:642]
5	ENSG000001	1.28	-0.52	0.67 ANPEP alanyl (membrane) aminopeptidase [Source:HGNC Symbol;A]
6	ENSG000000	1.26	-0.59	0.74 CLCA4 chloride channel accessory 4 [Source:HGNC Symbol;Acc:HGNC:10000]
7	ENSG000000	1.24	-0.81	0.86 SLC26A3solute carrier family 26 (anion exchanger), member 3 [Source:HGNC Symbol;Acc:HGNC:10000]
8	ENSG000000	1.24	-0.99	0.81 CEACAM6carcinoembryonic antigen-related cell adhesion molecule 7 [Source:HGNC Symbol;Acc:HGNC:10000]
9	ENSG000001	1.24	-0.49	0.77 ZG16 zymogen granule protein 16 [Source:HGNC Symbol;Acc:HGNC:10000]
10	ENSG000000	1.22	-0.52	0.83 GUCA2Bguanylate cyclase activator 2B (uroguanylin) [Source:HGNC S]
11	ENSG000001	1.21	-0.51	0.63 TFF1 trefoil factor 1 [Source:HGNC Symbol;Acc:HGNC:11755]
12	ENSG000001	1.2	-0.44	0.72 PRAP1 proline-rich acidic protein 1 [Source:HGNC Symbol;Acc:HGNC:10000]
13	ENSG000002	1.15	-0.61	0.85
14	ENSG000001	1.13	-1.09	0.91 FABP1 fatty acid binding protein 1, liver [Source:HGNC Symbol;Acc:HGNC:10000]
15	ENSG000001	1.12	-0.37	0.76 AKR1B1aldo-keto reductase family 1, member B10 (aldose reductase)
16	ENSG000001	1.1	-0.7	0.55 PI3 peptidase inhibitor 3, skin-derived [Source:HGNC Symbol;Acc:HGNC:10000]
17	ENSG000001	1.06	-1.31	0.65 PIGR polymeric immunoglobulin receptor [Source:HGNC Symbol;A]
18	ENSG000001	1.02	-1.15	0.69 CEACAM5carcinoembryonic antigen-related cell adhesion molecule 5 [Source:HGNC Symbol;Acc:HGNC:10000]
19	ENSG000001	1	-0.96	0.92 KRT20 keratin 20, type I [Source:HGNC Symbol;Acc:HGNC:20412]
20	ENSG000001	1	-0.35	0.8 C11orf86chromosome 11 open reading frame 86 [Source:HGNC Symlt]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	9e-83	60 / 104	Colon Pentrack_CRC_TCGA_group.over_A_normal_UP
2	3e-73	92 / 507	Colon Pentrack_CRC_TCGA_corr_CRC_normal_UP
3	9e-40	37 / 110	Colon Marisa_CRC-cluster-h
4	3e-29	118 / 2638	CC extracellular exosome
5	3e-28	58 / 643	Colon Lembcke_TCGA_meth_kmeans_J_CIMP_H_DN
6	1e-25	54 / 616	Colon Lembcke_TCGA-expr_kmeans_M_CIMP_H_DN
7	9e-23	35 / 262	GSE/ SABATES_COLORECTAL_ADENOMA_DN
8	1e-22	82 / 1624	GSE/ DODD_NASOPHARYNGEAL_CARCIOMA_UP
9	1e-22	44 / 455	GSE/ ONDER_CDH1_TARGETS_2_DN
10	1e-21	41 / 412	GSE/ LIM_MAMMARY_STEM_CELL_DN
11	4e-21	115 / 3122	Color TxEnhG1_Colon
12	6e-21	41 / 429	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_UP
13	8e-21	31 / 222	GSE/ COLDREN_GEFITINIB_RESISTANCE_DN
14	1e-20	26 / 144	Lymp WIRTH_lymphoma937_spot G
15	2e-19	25 / 142	Lymp Hopp_June14_MMML937_tumors+controls_group.overexpression_G_tonst
16	2e-19	31 / 248	GSE/ JAEGER_METASTASIS_DN
17	2e-18	23 / 126	GSE/ VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_DN
18	1e-16	106 / 3112	Color EnhA_Colon
19	1e-16	46 / 711	GSE/ LEE_BMP2_TARGETS_UP
20	3e-16	104 / 3064	Glio Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
21	5e-16	15 / 49	Color Marisa_CRC-cluster-f
22	1e-15	244 / 11791	Color Enh_Colon
23	2e-15	27 / 251	GSE/ WAMUNYKOLI_OVARIAN_CANCER_LMP_UP
24	4e-15	49 / 877	Color TxEnhG2_Colon
25	1e-14	14 / 48	GSE/ KEGG_DRUG_METABOLISM_OTHER_ENZYMES
26	1e-14	154 / 5889	Color EnhWk1_Colon
27	3e-14	27 / 280	GSE/ ACEVEDO_FGFR1_TARGETS_IN_PROSTATE_CANCER_MODEL_UP
28	8e-14	41 / 682	GSE/ CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_3
29	1e-13	41 / 688	Color Lembcke_TCGA-expr_kmeans_L_CIMP_H_UP_Cluster4_DN
30	1e-13	32 / 424	GSE/ DELYS_THYROID_CANCER_UP
31	2e-13	19 / 132	GSE/ WAMUNYKOLI_OVARIAN_CANCER_GRADES_1_2_UP
32	3e-13	33 / 465	GSE/ SCHAEFFER_PROSTATE_DEVELOPMENT_48HR_UP
33	4e-13	25 / 261	GSE/ MCBRYAN_PUBERTAL_BREAST_4_5WK_UP
34	5e-13	213 / 9930	Color Tx_Colon
35	6e-13	13 / 51	GSE/ KEGG_STEROID_HORMONE_BIOSYNTHESIS
36	6e-13	10 / 23	BP flavonoid biosynthetic process
37	6e-13	10 / 23	BP flavonoid glucuronidation
38	9e-13	17 / 109	GSE/ LIEN_BREAST_CARCIOMA_METAPLASTIC_VS_DUCTAL_DN
39	1e-12	37 / 608	Disea GUDJ_psoiasis up
40	1e-12	10 / 24	GSE/ KEGG_ASCORBATE_AND_ALDARATE_METABOLISM



K-Means Clusters

Spot Summary: G

metagenes = 38
genes = 526

<r> metagenes = 0.9

<r> genes = 0.52

beta: r2= 0.23 / log p= -1.69

samples with spot = 5 (21.7 %)

MLH1_normHNPCC : 2 (33.3 %)

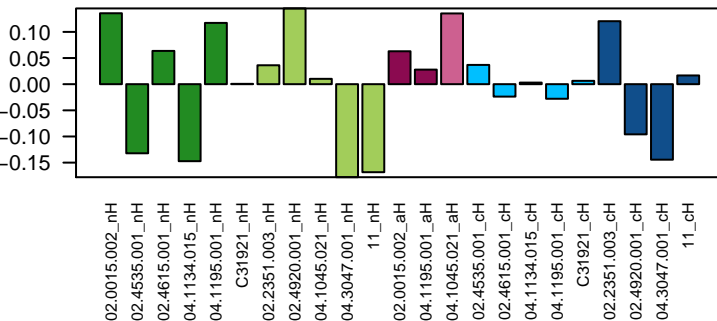
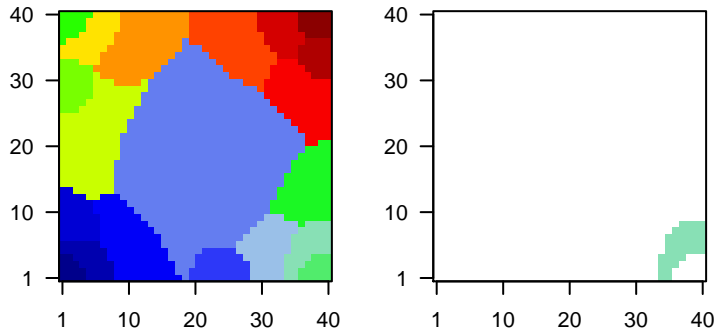
other_normHNPCC : 1 (20 %)

other_adenomaHNPCC : 1 (100 %)

other_cancerHNPCC : 1 (25 %)

Overview Map

Spot

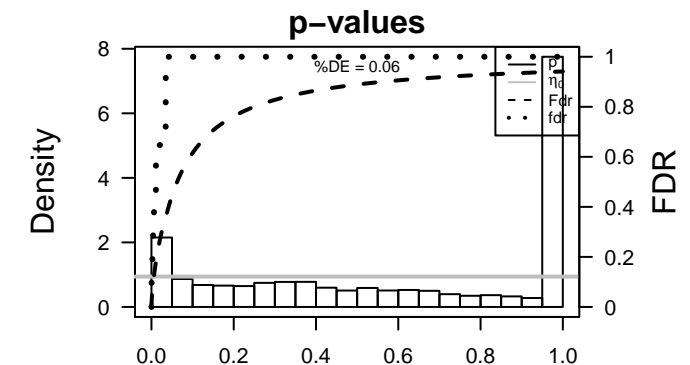


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	0.89	-0.51	0.64	SLPI secretory leukocyte peptidase inhibitor [Source:HGNC Symb
2	ENSG0000000	0.88	-0.19	0.3	SLC9A3 solute carrier family 9, subfamily A (NHE3, cation proton anti
3	ENSG0000002	0.86	-0.15	0.65	CAPN8 calpain 8 [Source:HGNC Symbol;Acc:HGNC:1485]
4	ENSG0000002	0.83	-0.45	0.77	
5	ENSG0000001	0.81	-0.17	0.57	B3GNT7 UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransf
6	ENSG0000001	0.8	-0.4	0.52	mucin 2, oligomeric mucus/gel-forming [Source:HGNC Symb
7	ENSG0000001	0.79	-0.41	0.53	NQO1 NAD(P)H dehydrogenase, quinone 1 [Source:HGNC Symbol;
8	ENSG0000001	0.73	-0.2	0.55	CDHR1 cadherin-related family member 1 [Source:HGNC Symbol;Ac
9	ENSG0000001	0.71	-0.35	0.75	DGAT1 diacylglycerol O-acyltransferase 1 [Source:HGNC Symbol;Ac
10	ENSG0000001	0.7	-0.27	0.56	AK1 adenylate kinase 1 [Source:HGNC Symbol;Acc:HGNC:361]
11	ENSG0000002	0.7	-0.25	0.63	CEBPA CCAAT/enhancer binding protein (C/EBP), alpha [Source:HG
12	ENSG0000001	0.68	-0.4	0.64	DHCR24 24-dehydrocholesterol reductase [Source:HGNC Symbol;Acc
13	ENSG0000001	0.66	-0.79	0.26	CKB creatine kinase, brain [Source:HGNC Symbol;Acc:HGNC:199
14	ENSG0000001	0.65	-0.16	0.5	HOXB5 homeobox B5 [Source:HGNC Symbol;Acc:HGNC:5116]
15	ENSG0000001	0.63	-0.26	0.62	ROMO1 reactive oxygen species modulator 1 [Source:HGNC Symbol;
16	ENSG0000001	0.62	-0.15	0.45	REP15 RAB15 effector protein [Source:HGNC Symbol;Acc:HGNC:33
17	ENSG0000002	0.61	-0.17	0.45	HLA-G major histocompatibility complex, class I, G [Source:HGNC S
18	ENSG0000001	0.6	-0.4	0.64	BEST1 bestrophin 1 [Source:HGNC Symbol;Acc:HGNC:12703]
19	ENSG0000001	0.57	-0.14	0.63	CASP5 caspase 5, apoptosis-related cysteine peptidase [Source:HG
20	ENSG0000001	0.56	-0.11	0.57	INSL5 insulin-like 5 [Source:HGNC Symbol;Acc:HGNC:6088]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-48	68 / 251	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP
2	3e-38	207 / 3122	Colon TxEnhG1_Colon
3	1e-32	196 / 3112	Colon EnhA_Colon
4	4e-32	354 / 8123	Colon TssF_Colon
5	2e-29	48 / 222	GSE/ COLDREN_GEFITINIB_RESISTANCE_DN
6	1e-26	389 / 9930	Colon Tx_Colon
7	1e-26	277 / 5889	Colon EnhWk1_Colon
8	1e-26	61 / 429	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_UP
9	2e-24	428 / 11791	Colon Enh_Colon
10	7e-22	54 / 412	GSE/ LIM_MAMMARY_STEM_CELL_DN
11	1e-21	80 / 877	Colon TxEnhG2_Colon
12	4e-21	154 / 2638	CC extracellular exosome
13	6e-20	67 / 682	GSE/ CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_3
14	4e-19	384 / 10475	Colon TssA_Colon
15	4e-19	53 / 455	GSE/ ONDER_CDH1_TARGETS_2_DN
16	4e-19	56 / 507	Colon Pentrack_CRC_TCGA_corr_C_normal_UP
17	6e-19	109 / 1624	GSE/ DODD_NASOPHARYNGEAL_CARCIOMA_UP
18	6e-18	280 / 6761	Colon TssD2_Colon
19	2e-17	61 / 641	GSE/ FEVR_CTNNB1_TARGETS_UP
20	7e-17	52 / 495	GSE/ ENK_UV_RESPONSE_KERATINOCYTE_UP
21	2e-16	189 / 3977	Brain Mid_Frontal_Lobe_ReprPC
22	5e-15	92 / 1418	BP small molecule metabolic process
23	9e-15	78 / 1103	GSE/ GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_UP
24	5e-13	51 / 593	GSE/ GRAESSMANN_RESPONSE_TO_MC_AND_DOXORUBICIN_UP
25	6e-13	22 / 115	GSE/ CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_UP
26	3e-12	23 / 137	Tissu WIRTH_Mucosa
27	4e-12	22 / 126	GSE/ VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_DN
28	4e-12	334 / 9390	Colon TxWk_Colon
29	8e-11	21 / 132	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_UP
30	4e-10	39 / 459	GSE/ SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_UP
31	6e-10	30 / 292	GSE/ LI_INDUCED_T_TO_NATURAL_KILLER_UP
32	7e-10	39 / 467	GSE/ SWEET_LUNG_CANCER_KRAS_UP
33	8e-10	28 / 261	GSE/ MCBRYAN_PUBERTAL_BREAST_4_5WK_UP
34	8e-10	27 / 244	GSE/ RICKMAN_METASTASIS_DN
35	2e-09	20 / 142	Lymp Hopp_June14_MMML937_tumors+controls_group.overexpression_G_ton
36	3e-09	20 / 144	Lymp WIRTH_lymphoma937_spot G
37	5e-09	22 / 181	GSE/ WU_CELL_MIGRATION
38	8e-09	17 / 110	Colon Marisa_CRC-cluster-h
39	9e-09	45 / 643	Color Lembecke_TCGA_meth_kmeans_J_CIMP_H_DN
40	1e-08	32 / 370	GSE/ RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN



K-Means Clusters

Spot Summary: H

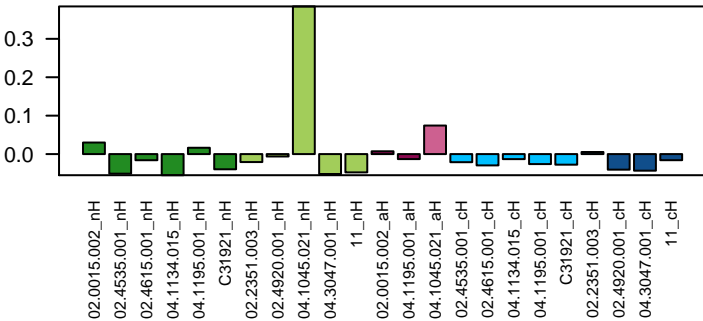
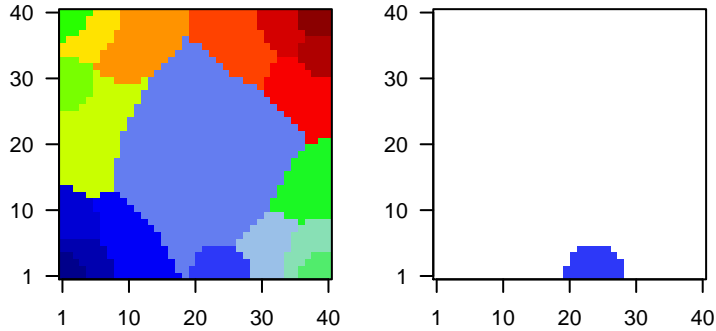
metagenes = 38
genes = 371

<r> metagenes = 0.95
<r> genes = 0.61
beta: r2= 0.1 / log p= -0.84

samples with spot = 1 (4.3 %)
other_normHNPCC : 1 (20 %)

Overview Map

Spot

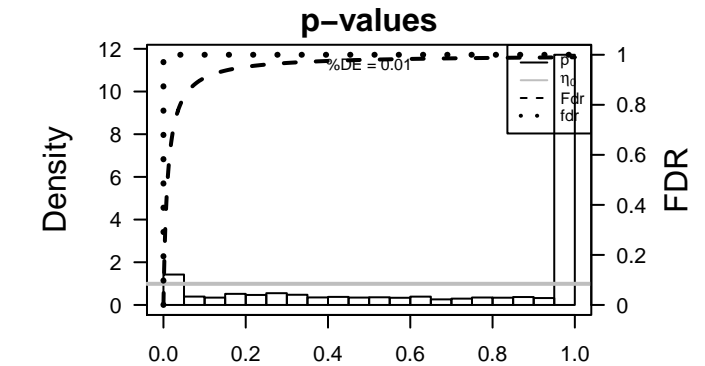


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	2.14	-0.26	0.98	ALDOB aldolase B, fructose-bisphosphate [Source:HGNC Symbol;Acc:HGNC:602]
2	ENSG0000001	2	-0.1	0.95	APOA4 apolipoprotein A-IV [Source:HGNC Symbol;Acc:HGNC:602]
3	ENSG0000001	1.85	-0.15	0.98	RBP2 retinol binding protein 2, cellular [Source:HGNC Symbol;Acc:HGNC:610]
4	ENSG0000001	1.46	-0.07	0.94	APOC3 apolipoprotein C-III [Source:HGNC Symbol;Acc:HGNC:610]
5	ENSG0000001	1.38	-0.08	0.96	CYP3A4 cytochrome P450, family 3, subfamily A, polypeptide 4 [Source:HGNC Symbol;Acc:HGNC:610]
6	ENSG0000001	1.36	-0.06	0.94	S100G S100 calcium binding protein G [Source:HGNC Symbol;Acc:HGNC:610]
7	ENSG0000000	1.3	-0.29	0.88	SMIM24 small integral membrane protein 24 [Source:HGNC Symbol;Acc:HGNC:610]
8	ENSG0000001	1.24	-0.06	0.95	APOA1 apolipoprotein A-I [Source:HGNC Symbol;Acc:HGNC:600]
9	ENSG0000000	1.18	-0.06	0.95	APOB apolipoprotein B [Source:HGNC Symbol;Acc:HGNC:603]
10	ENSG0000001	1.13	-0.18	0.96	SLC5A1 solute carrier family 5 (sodium/glucose cotransporter), member 1 [Source:HGNC Symbol;Acc:HGNC:603]
11	ENSG0000002	1.12	-0.08	0.95	GSTA1 glutathione S-transferase alpha 1 [Source:HGNC Symbol;Acc:HGNC:603]
12	ENSG0000001	1.11	-0.06	0.94	CCL25 chemokine (C-C motif) ligand 25 [Source:HGNC Symbol;Acc:HGNC:603]
13	ENSG0000001	1.09	-0.34	0.68	SERPINA5 serpin peptidase inhibitor, clade A (alpha-1 antitrypsin), member 5 [Source:HGNC Symbol;Acc:HGNC:603]
14	ENSG0000001	1.07	-0.23	0.95	FBP1 fructose-1,6-bisphosphatase 1 [Source:HGNC Symbol;Acc:HGNC:603]
15	ENSG0000000	1.06	-0.08	0.96	CREB3L3 cAMP responsive element binding protein 3-like 3 [Source:HGNC Symbol;Acc:HGNC:603]
16	ENSG0000001	1.04	-0.09	0.85	DEFA5 defensin, alpha 5, Paneth cell-specific [Source:HGNC Symbol;Acc:HGNC:603]
17	ENSG0000000	0.98	-0.05	0.94	FOLH1B folate hydrolase (prostate-specific membrane antigen) 1 [Source:HGNC Symbol;Acc:HGNC:603]
18	ENSG0000000	0.98	-0.1	0.95	SI sucrase-isomaltase (alpha-glucosidase) [Source:HGNC Symbol;Acc:HGNC:603]
19	ENSG0000001	0.97	-0.21	0.94	CBR1 carbonyl reductase 1 [Source:HGNC Symbol;Acc:HGNC:154]
20	ENSG0000001	0.95	-0.22	0.79	FABP2 fatty acid binding protein 2, intestinal [Source:HGNC Symbol;Acc:HGNC:603]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-32	53 / 346	GSE/ SANSOM_APC_TARGETS_DN
2	2e-32	101 / 1418	BP small molecule metabolic process
3	2e-31	44 / 229	GSE/ HSHIAO_LIVER_SPECIFIC_GENES
4	5e-23	53 / 541	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_DN
5	1e-21	121 / 2638	CC extracellular exosome
6	3e-21	23 / 80	GSE/ WOO_LIVER_CANCER_RECURRENCE_DN
7	1e-19	28 / 154	BP xenobiotic metabolic process
8	2e-18	26 / 141	GSE/ OHGUCHI_LIVER_HNF4A_TARGETS_DN
9	3e-18	51 / 641	GSE/ FEVR_CTNNB1_TARGETS_UP
10	4e-18	33 / 257	GSE/ HOSHIDA_LIVER_CANCER_SUBCLASS_S3
11	6e-18	29 / 193	HM HALLMARK_XENOBIOTIC_METABOLISM
12	1e-17	19 / 67	GSE/ KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450
13	8e-17	49 / 640	BP oxidation-reduction process
14	2e-16	26 / 170	GSE/ CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_DN
15	3e-16	35 / 336	GSE/ VECCHI_GASTRIC_CANCER_EARLY_DN
16	2e-15	17 / 64	BP cholesterol homeostasis
17	7e-15	22 / 132	GSE/ REACTOME_BIOLOGICAL_OXIDATIONS
18	8e-15	24 / 164	GSE/ LEE_LIVER_CANCER_SURVIVAL_UP
19	2e-14	41 / 526	GSE/ ACEVEDO_LIVER_CANCER_DN
20	4e-14	44 / 616	Color Lembecke_TCGA-expr_kmeans_M_CIMP_H_DN
21	3e-13	28 / 268	CC apical plasma membrane
22	4e-13	45 / 688	Color Lembecke_TCGA-expr_kmeans_L_CIMP_H_UP_Cluster4_DN
23	6e-13	19 / 115	Tissue WIRTH_Liver
24	4e-12	25 / 235	MF transporter activity
25	7e-12	133 / 4052	CC integral component of membrane
26	8e-12	14 / 62	GSE/ KEGG_RETINOL_METABOLISM
27	8e-12	14 / 62	GSE/ LEE_LIVER_CANCER_ACOX1_DN
28	8e-12	10 / 24	BP triglyceride homeostasis
29	2e-11	25 / 255	GSE/ CAIRO_HEPATOBLASTOMA_DN
30	3e-11	31 / 396	GSE/ REACTOME_TRANSMEMBRANE_TRANSPORT_OF_SMALL_MOLECULES
31	3e-11	108 / 3064	Glio Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
32	3e-11	14 / 68	GSE/ KEGG_DRUG_METABOLISM_CYTOCHROME_P450
33	4e-11	44 / 753	BP transmembrane transport
34	5e-11	26 / 287	MF oxidoreductase activity
35	6e-11	25 / 268	GSE/ ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACENT_TISSUE_DN
36	1e-10	28 / 346	GSE/ ACEVEDO_NORMAL_TISSUE_ADJACENT_TO_LIVER_TUMOR_DN
37	3e-10	17 / 126	GSE/ VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_DN
38	3e-10	12 / 54	BP arachidonic acid metabolic process
39	5e-10	12 / 56	BP retinoid metabolic process
40	6e-10	22 / 231	GSE/ REACTOME_SLC_MEDIATED_TRANSMEMBRANE_TRANSPORT



K-Means Clusters

Spot Summary: I

metagenes = 42
genes = 526

<r> metagenes = 0.94

<r> genes = 0.7

beta: r2= 0.15 / log p= -1.18

samples with spot = 2 (8.7 %)

other_normHNPCC : 2 (40 %)

Spot Genelist

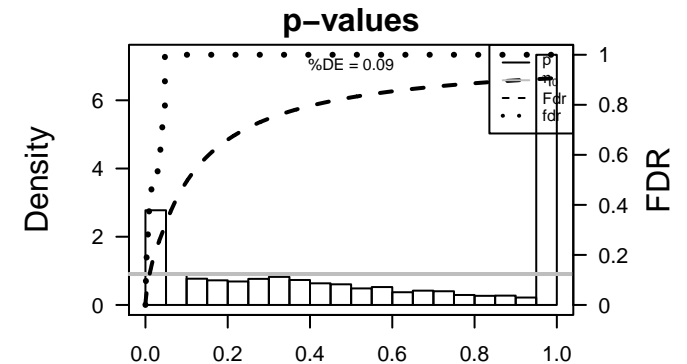
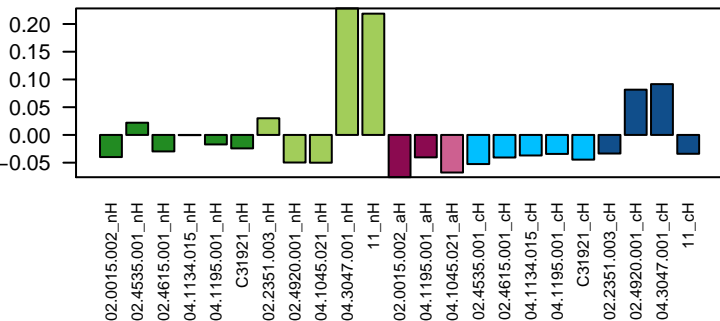
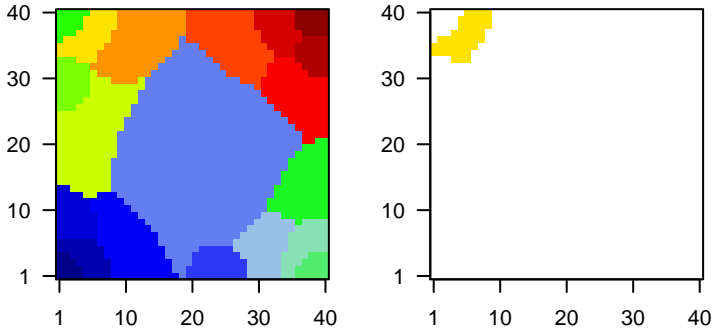
Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG000000	0.98	-0.1	0.41	CHRD12 chordin-like 2 [Source:HGNC Symbol;Acc:HGNC:24168]
2	ENSG000001	0.66	-0.14	0.75	LHFP lipoma HMGIC fusion partner [Source:HGNC Symbol;Acc:HC
3	ENSG000001	0.62	-0.35	0.36	BST2 bone marrow stromal cell antigen 2 [Source:HGNC Symbol;A
4	ENSG000001	0.61	-0.32	0.55	C1R complement component 1, r subcomponent [Source:HGNC S
5	ENSG000001	0.52	-0.06	0.86	NPTX1 neuronal pentraxin 1 [Source:HGNC Symbol;Acc:HGNC:7952
6	ENSG000001	0.5	-0.2	0.42	VIP vasoactive intestinal peptide [Source:HGNC Symbol;Acc:HG
7	ENSG000000	0.49	-0.24	0.49	CYBRD1 cytochrome b reductase 1 [Source:HGNC Symbol;Acc:HGNC
8	ENSG000001	0.47	-0.36	0.71	CNN3 calponin 3, acidic [Source:HGNC Symbol;Acc:HGNC:2157]
9	ENSG000001	0.47	-0.18	0.67	FILIP1L filamin A interacting protein 1-like [Source:HGNC Symbol;Ac
10	ENSG000001	0.47	-0.1	0.84	BTC betacellulin [Source:HGNC Symbol;Acc:HGNC:1121]
11	ENSG000001	0.45	-0.22	0.8	CALM2 calmodulin 2 (phosphorylase kinase, delta) [Source:HGNC S
12	ENSG000001	0.45	-0.06	0.92	
13	ENSG000001	0.45	-0.08	0.88	HACD1 3-hydroxyacyl-CoA dehydratase 1 [Source:HGNC Symbol;A
14	ENSG000000	0.44	-0.06	0.88	GPM6B glycoprotein M6B [Source:HGNC Symbol;Acc:HGNC:4461]
15	ENSG000001	0.43	-0.13	0.79	HSPG2 heparan sulfate proteoglycan 2 [Source:HGNC Symbol;Acc:H
16	ENSG000001	0.42	-0.13	0.7	NFIL3 nuclear factor, interleukin 3 regulated [Source:HGNC Symbol
17	ENSG000001	0.42	-0.04	0.9	CHRM2 cholinergic receptor, muscarinic 2 [Source:HGNC Symbol;Acc
18	ENSG000001	0.41	-0.1	0.85	NT5DC3 5'-nucleotidase domain containing 3 [Source:HGNC Symbol;
19	ENSG000000	0.4	-0.16	0.82	PFN2 profilin 2 [Source:HGNC Symbol;Acc:HGNC:8882]
20	ENSG000001	0.4	-0.05	0.93	GPM6A glycoprotein M6A [Source:HGNC Symbol;Acc:HGNC:4460]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-27	1 / 16	Cancer LIU_PROSTATE_CANCER_DN
2	3e-20	393 / 10800	Brain Overlap_fetal_midbrain_Quies
3	2e-18	34 / 191	Brain Overlap_fetal_midbrain_Het
4	6e-17	370 / 10239	Brain Overlap_fetal_midbrain_ReprPC
5	1e-16	370 / 10278	Brain Overlap_fetal_midbrain_ReprPCWk
6	3e-15	27 / 147	BP homophilic cell adhesion via plasma membrane adhesion molecules
7	4e-15	257 / 6320	Brain Overlap_fetal_midbrain_HetRpts
8	1e-13	403 / 11968	Colon TssWk_Colon
9	4e-13	40 / 384	GSE/ BERENJENO_TRANSFORMED_BY_RHOA_DN
10	4e-13	45 / 478	GSE/ LIM_MAMMARY_STEM_CELL_UP
11	7e-13	349 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
12	3e-12	55 / 711	GSE/ LEE_BMP2_TARGETS_UP
13	4e-12	19 / 91	GSE/ AMUNDSON_POOR_SURVIVAL_AFTER_GAMMA_RADIATION_8G
14	5e-12	334 / 9470	Colon Quies3_Colon
15	1e-11	53 / 692	GSE/ WONG_ADULT_TISSUE_STEM_MODULE
16	1e-11	55 / 736	GSE/ RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_DN
17	1e-11	52 / 672	MF calcium ion binding
18	1e-11	44 / 510	GSE/ ONKEN_UVEAL_MELANOMA_DN
19	2e-11	19 / 99	Glio Hopp_Sturm_GBM_Epi3_C2_adult_fetus_DN
20	2e-11	185 / 4379	Colon TssD1_Colon
21	2e-11	22 / 138	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_2A_DN
22	2e-11	39 / 419	GSE/ BAELEN_DIABETIC_NEPHROPATHY_DN
23	3e-11	200 / 4879	Colon Quies1_Colon
24	5e-11	59 / 855	Brain Overlap_fetal_midbrain_ZNF
25	6e-11	38 / 414	Lymp TARTE_Mature plasma cell signature
26	9e-11	229 / 5889	Colon EnhWk1_Colon
27	2e-10	57 / 834	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
28	2e-10	388 / 11791	Colon Enh_Colon
29	2e-10	40 / 471	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
30	5e-10	20 / 132	Colon Marisa_CRC-cluster-b
31	5e-10	38 / 445	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN
32	7e-10	40 / 490	GSE/ RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_DN
33	1e-09	36 / 418	GSE/ SWEET_LUNG_CANCER_KRAS_DN
34	1e-09	36 / 420	GSE/ SHEN_SMARCA2_TARGETS_UP
35	2e-09	23 / 189	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_LMP_DN
36	2e-09	128 / 2838	Lymp HOPP_Poised_promoter
37	3e-09	35 / 413	GSE/ SCHAEFFER_PROSTATE_DEVELOPMENT_48HR_DN
38	4e-09	20 / 148	Colon Marisa_CRC-cluster-a
39	4e-09	50 / 745	TF ICGC_Nrs1Pcr2_targets
40	4e-09	40 / 523	BP cell adhesion

Overview Map

Spot



K-Means Clusters

Spot Summary: J

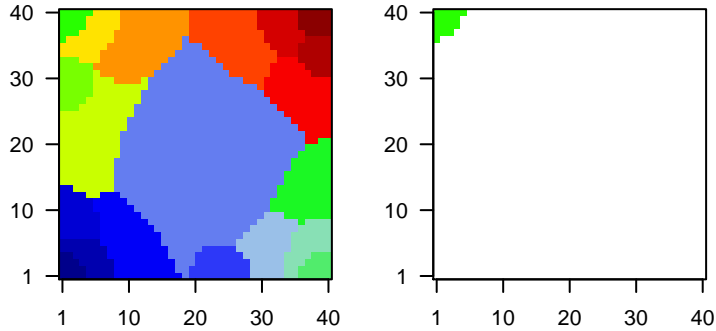
metagenes = 17
genes = 337

<r> metagenes = 0.99
<r> genes = 0.8
beta: r2= 0.65 / log p= -5.44

samples with spot = 5 (21.7 %)
other_normHNPCC : 3 (60 %)
other_cancerHNPCC : 2 (50 %)

Overview Map

Spot

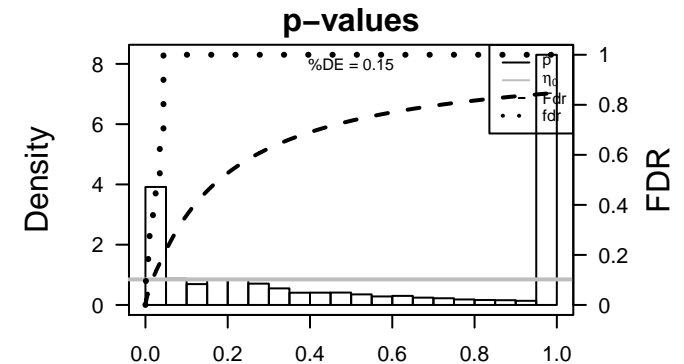
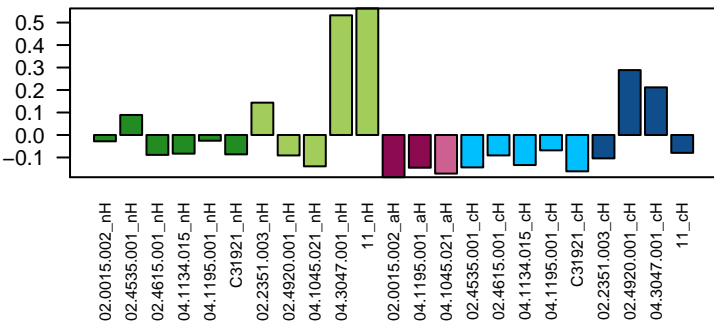


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG0000001	1.59	-0.8	0.87	DES desmin [Source:HGNC Symbol;Acc:HGNC:2770]
2	ENSG0000001	1.46	-0.53	0.95	MYH11 myosin, heavy chain 11, smooth muscle [Source:HGNC Syml
3	ENSG0000001	1.44	-0.52	0.94	CNN1 calponin 1, basic, smooth muscle [Source:HGNC Symbol;Acc
4	ENSG0000001	1.42	-0.68	0.91	ACTG2 actin, gamma 2, smooth muscle, enteric [Source:HGNC Syml
5	ENSG0000002	1.37	-0.24	0.43	MTRNR2MT-RNR2-like 1 [Source:HGNC Symbol;Acc:HGNC:37155]
6	ENSG0000001	1.35	-0.91	0.9	MYL9 myosin, light chain 9, regulatory [Source:HGNC Symbol;Acc:l
7	ENSG0000001	1.32	-0.37	0.96	SYNM synemin, intermediate filament protein [Source:HGNC Symbc
8	ENSG0000001	1.3	-0.58	0.97	FLNA filamin A, alpha [Source:HGNC Symbol;Acc:HGNC:3754]
9	ENSG0000001	1.29	-0.49	0.95	TPM2 tropomyosin 2 (beta) [Source:HGNC Symbol;Acc:HGNC:120
10	ENSG0000001	1.24	-0.52	0.74	IGFBP7 insulin-like growth factor binding protein 7 [Source:HGNC Sy
11	ENSG0000001	1.21	-0.38	0.98	CSRP1 cysteine and glycine-rich protein 1 [Source:HGNC Symbol;A
12	ENSG0000001	1.2	-0.74	0.92	TAGLN transgelin [Source:HGNC Symbol;Acc:HGNC:11553]
13	ENSG0000000	1.17	-0.45	0.95	HSPB6 heat shock protein, alpha-crystallin-related, B6 [Source:HG
14	ENSG0000000	1.17	-0.25	0.96	NDE1 nudE neurodevelopment protein 1 [Source:HGNC Symbol;Ac
15	ENSG0000001	1.17	-0.39	0.99	CALD1 caldesmon 1 [Source:HGNC Symbol;Acc:HGNC:1441]
16	ENSG0000000	1.17	-0.4	0.97	FHL1 four and a half LIM domains 1 [Source:HGNC Symbol;Acc:HK
17	ENSG0000001	1.17	-0.36	0.98	LMOD1 leiomodlin 1 (smooth muscle) [Source:HGNC Symbol;Acc:HG
18	ENSG0000001	1.14	-0.57	0.95	ACTA2 actin, alpha 2, smooth muscle, aorta [Source:HGNC Symbol;
19	ENSG0000000	1.14	-0.3	0.98	MYLK myosin light chain kinase [Source:HGNC Symbol;Acc:HGNC:
20	ENSG0000001	1.12	-0.31	0.98	PLN phospholamban [Source:HGNC Symbol;Acc:HGNC:9080]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-72	5 / 16	Cancer LIU_PROSTATE_CANCER_DN
2	3e-67	58 / 132	Colon Marisa_CRC-cluster-b
3	3e-51	69 / 368	GSE# LINDGREN_BLADDER_CANCER_CLUSTER_2B
4	7e-50	75 / 478	GSE# LIM_MAMMARY_STEM_CELL_UP
5	3e-45	74 / 535	GSE# CHICAS_RB1_TARGETS_CONFLUENT
6	1e-44	59 / 303	GSE# PASINI_SUZ12_TARGETS_DN
7	5e-40	47 / 196	GSE# PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
8	8e-36	60 / 445	GSE# CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN
9	1e-33	51 / 326	GSE# SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
10	2e-31	47 / 294	GSE# ACEVEDO_FGFR1_TARGETS_IN_PROSTATE_CANCER_MODEL_DN
11	5e-31	67 / 692	GSE# WONG_ADULT_TISSUE_STEM_MODULE
12	2e-30	44 / 261	Lymp LENZ_Stromal signature 1
13	9e-30	39 / 198	HM HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
14	1e-29	36 / 160	GSE# BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_DN
15	2e-28	51 / 418	GSE# SWEETZ_LUNG_CANCER_KRAS_DN
16	5e-28	45 / 314	Lymp Hopp_June14_MMML937_tumors+controls_group.overexpression_E_GC-
17	5e-28	45 / 315	Lymp WIRTH_lymphoma937_spot E
18	2e-27	48 / 378	CC focal adhesion
19	3e-26	54 / 525	GSE# WEST_ADRENOCORITICAL_TUMOR_DN
20	4e-25	20 / 40	GSE# TOMLINS_PROSTATE_CANCER_DN
21	1e-24	60 / 711	GSE# LEE_BMP2_TARGETS_UP
22	1e-23	45 / 399	Disea GUDJ_psooriasis down
23	3e-23	39 / 292	GSE# CHANDRAN_METASTASIS_DN
24	4e-23	33 / 195	HM HALLMARK_MYOGENESIS
25	9e-23	36 / 248	GSE# ONDER_CDH1_TARGETS_2_UP
26	1e-22	37 / 267	GSE# WANG_SMARCE1_TARGETS_UP
27	3e-20	27 / 144	GSE# IGLESIAS_E2F_TARGETS_UP
28	5e-20	27 / 148	Color Marisa_CRC-cluster-a
29	5e-20	14 / 22	GSE# REACTOME_SMOOTH_MUSCLE_CONTRACTION
30	5e-20	17 / 40	GSE# PAPASPYRIDONOS_UNSTABLE_ATEROSCLEROTIC_PLAQUE_DN
31	1e-19	33 / 249	GSE# BOQUEST_STEM_CELL_UP
32	3e-19	36 / 313	GSE# KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_DN
33	2e-18	32 / 254	GSE# LU_AGING_BRAIN_UP
34	7e-18	22 / 105	BP muscle contraction
35	8e-18	39 / 413	GSE# BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP
36	8e-18	28 / 195	GSE# KEGG_FOCAL_ADHESION
37	1e-17	16 / 44	GSE# REACTOME_MUSCLE_CONTRACTION
38	1e-17	160 / 5039	Lymp HOPP_Repressed
39	2e-17	38 / 401	GSE# REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
40	2e-17	28 / 202	CC extracellular matrix



K-Means Clusters

Spot Summary: K

metagenes = 105
genes = 1170

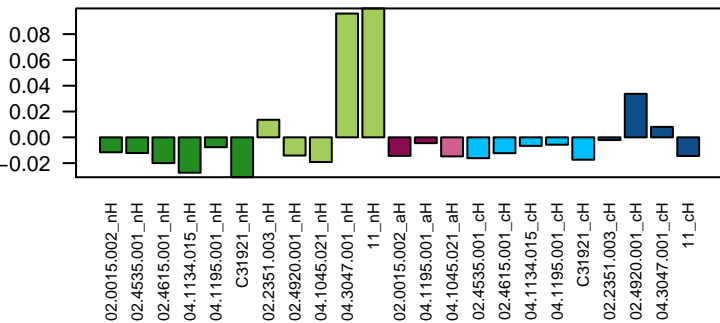
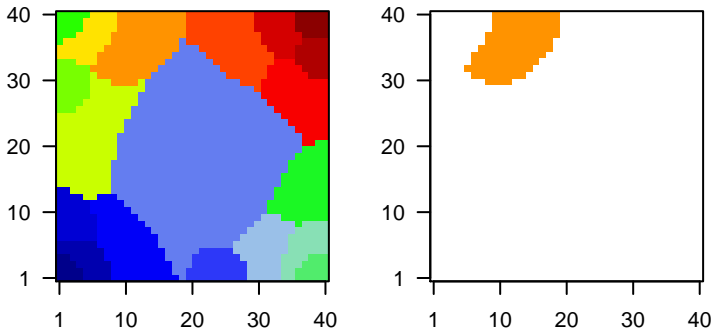
<r> metagenes = 0.87

beta: r2= 0.03 / log p= -0.34

samples with spot = 0 (0 %)

Overview Map

Spot

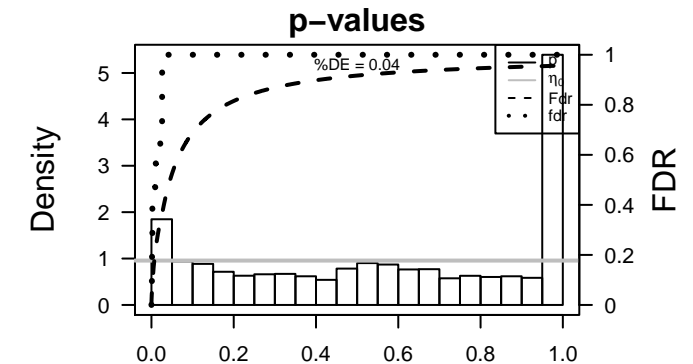


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG000002	0.6	-0.03	0.23	SPINK1serine peptidase inhibitor, Kazal type 13 (putative) [Source:HGNC]
2	ENSG000001	0.53	-0.03	0.24	SPINK6 serine peptidase inhibitor, Kazal type 6 [Source:HGNC]
3	ENSG000002	0.51	-0.06	0.33	LY6G6D lymphocyte antigen 6 complex, locus G6D [Source:HGNC]
4	ENSG000001	0.43	-0.24	0.55	COPRS coordinator of PRMT5, differentiation stimulator [Source:HGNC]
5	ENSG000001	0.43	-0.31	0.43	H1F0 H1 histone family, member 0 [Source:HGNC]
6	ENSG000000	0.42	-0.05	0.61	HSD17B4hydroxysteroid (17-beta) dehydrogenase 6 [Source:HGNC]
7	ENSG000000	0.41	-0.14	0.45	P3H2 prolyl 3-hydroxylase 2 [Source:HGNC]
8	ENSG000001	0.39	-0.09	0.45	IFIT1 interferon-induced protein with tetratricopeptide repeats 1 [Source:HGNC]
9	ENSG000001	0.37	-0.08	0.51	PLEKHA7pleckstrin homology domain containing, family A (phosphoinositide)
10	ENSG000001	0.36	-0.36	0.38	SDC4 syndecan 4 [Source:HGNC]
11	ENSG000001	0.34	-0.02	0.43	ASB5 ankyrin repeat and SOCS box containing 5 [Source:HGNC]
12	ENSG000001	0.34	-0.11	0.52	IGFBP6 insulin-like growth factor binding protein 6 [Source:HGNC]
13	ENSG000001	0.34	-0.27	0.24	VASP vasodilator-stimulated phosphoprotein [Source:HGNC]
14	ENSG000001	0.32	-0.14	0.33	PKDCC protein kinase domain containing, cytoplasmic [Source:HGNC]
15	ENSG000001	0.31	-0.16	0.43	SLC16A1solute carrier family 16 (monocarboxylate transporter), member 1
16	ENSG000001	0.31	-0.09	0.48	STMN2 stathmin 2 [Source:HGNC]
17	ENSG000001	0.31	-0.13	0.54	SYNC syncollin, intermediate filament protein [Source:HGNC]
18	ENSG000001	0.29	-0.03	0.81	NTSR1 neurotensin receptor 1 (high affinity) [Source:HGNC]
19	ENSG000002	0.29	-0.42	0.4	Uncharacterized protein [Source:UniProtKB/TrEMBL]
20	ENSG000000	0.28	-0.07	0.51	PHGDH phosphoglycerate dehydrogenase [Source:HGNC]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-46	856 / 10239	Brain Overlap_fetal_midbrain_ReprPC
2	7e-44	832 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
3	3e-41	602 / 6320	Brain Overlap_fetal_midbrain_HetRpts
4	4e-36	831 / 10278	Brain Overlap_fetal_midbrain_ReprPCWk
5	6e-36	860 / 10800	Brain Overlap_fetal_midbrain_Quies
6	1e-22	883 / 11968	Colon TssWk_Colon
7	4e-21	729 / 9390	Colon TxWk_Colon
8	7e-21	158 / 1197	GSE/ BLALOCK_ALZHEIMERS_DISEASE_DN
9	1e-20	81 / 420	GSE/ SHEN_SMARCA2_TARGETS_UP
10	5e-19	725 / 9470	Colon Quies3_Colon
11	1e-18	796 / 10693	MF protein binding
12	1e-18	751 / 9930	Colon Tx_Colon
13	6e-17	776 / 10475	Colon TssA_Colon
14	7e-17	635 / 8147	Lymph HOPP_Weak_promoter
15	2e-14	307 / 3370	Brain Mid_Frontal_Lobe_ZNF
16	4e-14	510 / 6389	Lymph HOPP_Weak_txn
17	6e-12	366 / 4379	Colon TssD1_Colon
18	1e-11	622 / 8358	Lymph HOPP_Active_promoter
19	2e-11	417 / 5185	CC cytoplasm
20	4e-11	520 / 6784	Lymph HOPP_Weak_enhancer
21	2e-10	68 / 490	GSE/ RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_DN
22	2e-09	59 / 421	GSE/ ROME_INSULIN_TARGETS_IN_MUSCLE_UP
23	5e-09	552 / 7491	Lymph HOPP_Txn_elongation
24	1e-08	88 / 773	GSE/ LASTOWSKA_NEUROBLASTOMA_COPY_NUMBER_DN
25	1e-08	67 / 530	GSE/ KIM_ALL_DISORDERS_CALB1_CORR_UP
26	1e-08	62 / 476	Tissue WIRTH_Nervous System
27	2e-08	109 / 1036	GSE/ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_DN
28	5e-08	585 / 8123	Colon TssF_Colon
29	6e-08	239 / 2838	Lymph HOPP_Poised_promoter
30	8e-08	805 / 11791	Colon Enh_Colon
31	1e-07	56 / 435	miRN hsa-miR-372
32	1e-07	157 / 1713	GSE/ GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_DN
33	1e-07	92 / 864	CC Golgi apparatus
34	2e-07	89 / 834	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
35	5e-07	371 / 4879	Colon Quies1_Colon
36	6e-07	13 / 41	BP mitochondrial electron transport, NADH to ubiquinone
37	6e-07	54 / 436	Glio Down_b
38	7e-07	18 / 77	CC primary cilium
39	8e-07	72 / 651	GSE/ KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DENSITY_CORR_UP
40	1e-06	59 / 503	GSE/ MILL_PSEUDOPODIA_HAPTOTAXIS_UP



K-Means Clusters

Spot Summary: L

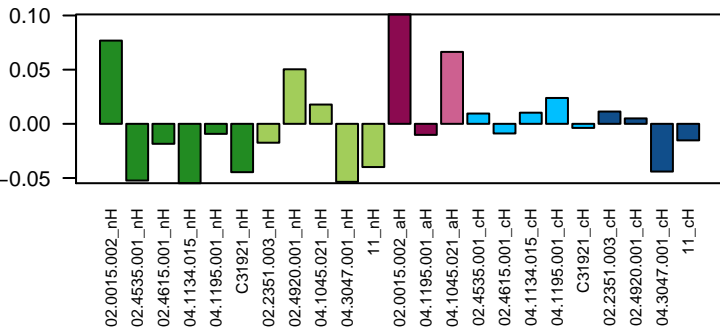
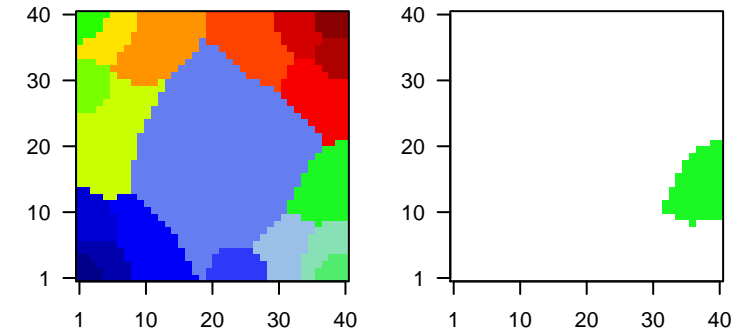
metagenes = 79
genes = 943

<r> metagenes = 0.84
<r> genes = 0.43
beta: r2= 0.04 / log p= -0.45

samples with spot = 0 (0 %)

Overview Map

Spot

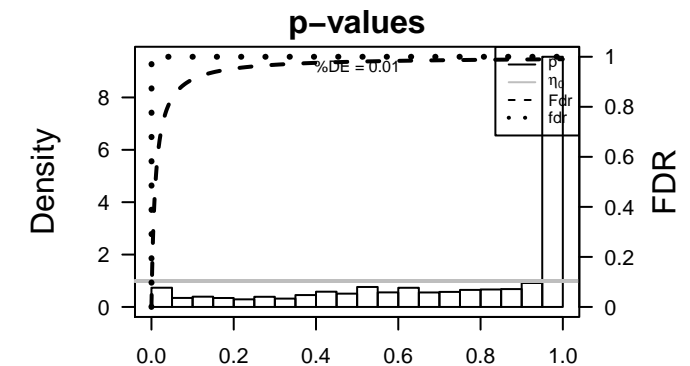


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG000002	0.86	-0.35	0.6	cysteine-rich protein 1 (intestinal) [Source:HGNC Symbol;Acc:HGNC:24617]
2	ENSG000002	0.8	-0.27	0.63	CRIP1 cysteine-rich protein 1 (intestinal) [Source:HGNC Symbol;Acc:HGNC:24617]
3	ENSG000001	0.7	-0.03	0.35	CTAG2 cancer/testis antigen 2 [Source:HGNC Symbol;Acc:HGNC:24617]
4	ENSG000001	0.6	-0.09	0.6	FABP6 fatty acid binding protein 6, ileal [Source:HGNC Symbol;Acc:HGNC:24617]
5	ENSG000001	0.56	-0.1	0.72	TNNC2 troponin C type 2 (fast) [Source:HGNC Symbol;Acc:HGNC:24617]
6	ENSG000001	0.53	-0.22	0.66	ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit [Source:HGNC Symbol;Acc:HGNC:24617]
7	ENSG000001	0.49	-0.13	0.6	RCN3 reticulocalbin 3, EF-hand calcium binding domain [Source:HGNC Symbol;Acc:HGNC:24617]
8	ENSG000001	0.49	-0.42	0.55	RNASE1 ribonuclease, RNase A family, 1 (pancreatic) [Source:HGNC Symbol;Acc:HGNC:24617]
9	ENSG000001	0.47	-0.11	0.44	URAD ureidoimidazole (2-oxo-4-hydroxy-4-carboxy-5-) decarboxylase [Source:HGNC Symbol;Acc:HGNC:24617]
10	ENSG000001	0.43	-0.19	0.65	
11	ENSG000001	0.41	-0.08	0.74	MMAB methylmalonic aciduria (cobalamin deficiency) cblB type [Source:HGNC Symbol;Acc:HGNC:24617]
12	ENSG000001	0.4	-0.23	0.87	NDUFS6 NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (mitochondrial) [Source:HGNC Symbol;Acc:HGNC:24617]
13	ENSG000001	0.39	-0.1	0.43	HOXB6 homeobox B6 [Source:HGNC Symbol;Acc:HGNC:5117]
14	ENSG000001	0.39	-0.11	0.47	INSR insulin receptor [Source:HGNC Symbol;Acc:HGNC:6091]
15	ENSG000001	0.38	-0.05	0.59	DUOX1 dual oxidase maturation factor 1 [Source:HGNC Symbol;Acc:HGNC:24617]
16	ENSG000002	0.38	-0.05	0.57	
17	ENSG000001	0.38	-0.1	0.78	PIGU phosphatidylinositol glycan anchor biosynthesis, class U [Source:HGNC Symbol;Acc:HGNC:24617]
18	ENSG000001	0.38	-0.15	0.85	FAM166A family with sequence similarity 166, member A [Source:HGNC Symbol;Acc:HGNC:24617]
19	ENSG000001	0.37	-0.29	0.46	CYC1 cytochrome c-1 [Source:HGNC Symbol;Acc:HGNC:2579]
20	ENSG000002	0.37	-0.11	0.7	MROH6 maestro heat-like repeat family member 6 [Source:HGNC Symbol;Acc:HGNC:24617]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-78	666 / 8123	Colon TssF_Colon
2	1e-59	736 / 10475	Colon TssA_Colon
3	2e-51	546 / 6761	Colon TssD2_Colon
4	9e-47	325 / 3122	Colon TxEnhG1_Colon
5	2e-46	686 / 9930	Colon Tx_Colon
6	2e-36	662 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
7	1e-33	311 / 3370	Brain Mid_Frontal_Lobe_ZNF
8	5e-31	623 / 9390	Colon TxWk_Colon
9	9e-29	723 / 11791	Colon Enh_Colon
10	5e-24	427 / 5889	Colon EnhWk1_Colon
11	4e-23	267 / 3112	Colon EnhA_Colon
12	1e-17	103 / 865	Brain Mid_Frontal_Lobe_Het
13	2e-14	61 / 425	CC mitochondrial inner membrane
14	3e-14	631 / 10800	Brain Overlap_fetal_midbrain_Quies
15	5e-14	27 / 96	BP respiratory electron transport chain
16	7e-14	24 / 76	GSE/ REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP_SYNTHES
17	7e-14	191 / 2342	TF ICGC_GabpPcr2_targets
18	9e-14	66 / 499	GSE/ STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
19	1e-13	602 / 10239	Brain Overlap_fetal_midbrain_ReprPC
20	2e-13	133 / 1441	CC mitochondrion
21	3e-13	31 / 136	BP cellular metabolic process
22	1e-12	92 / 877	Colon TxEnhG2_Colon
23	2e-12	27 / 111	GSE/ KEGG_OXIDATIVE_PHOSPHORYLATION
24	3e-12	20 / 60	GSE/ REACTOME_RESPIRATORY_ELECTRON_TRANSPORT
25	3e-12	344 / 5173	TF ICGC_Taf1_targets
26	5e-12	23 / 83	GSE/ MOOHTA_VOXPPOS
27	1e-11	26 / 111	GSE/ REACTOME_TCA_CYCLE_AND_RESPIRATORY_ELECTRON_TRANSP
28	2e-11	302 / 4470	TF ICGC_Creb1_targets
29	3e-11	16 / 41	MF NADH dehydrogenase (ubiquinone) activity
30	3e-11	78 / 727	GSE/ KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_UP
31	4e-11	49 / 356	GSE/ DAIRKEE_TERT_TARGETS_UP
32	7e-11	31 / 165	GSE/ YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_13
33	9e-11	35 / 207	GSE/ WONG_MITOCHONDRIA_GENE_MODULE
34	9e-11	16 / 44	CC mitochondrial respiratory chain complex I
35	1e-10	361 / 5643	Lymp HOPP_Txn_transition
36	1e-10	207 / 2820	Brain Mid_Frontal_Lobe_HetRpts
37	4e-10	355 / 5578	TF ICGC_Stat5_targets
38	4e-10	113 / 1294	TF KIM_MYC_targets
39	5e-10	283 / 4230	TF ICGC_Nfatc1_targets
40	5e-10	294 / 4436	TF ICGC_Zeb1_targets



K-Means Clusters

Spot Summary: M

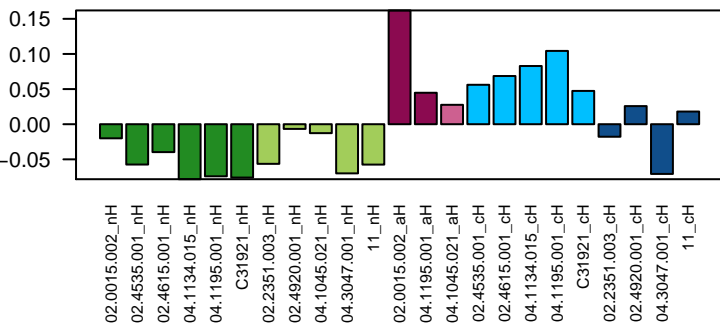
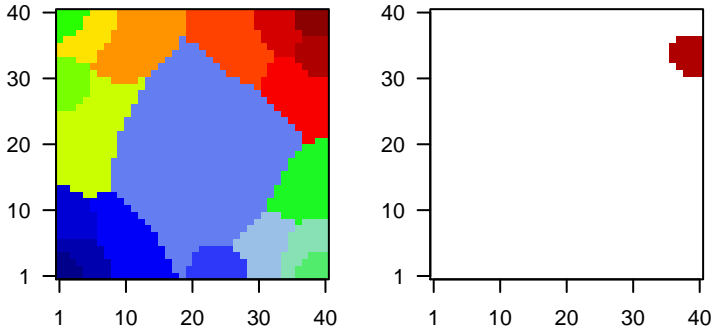
metagenes = 26
genes = 465

<r> metagenes = 0.97
<r> genes = 0.63
beta: r2= 0.09 / log p= -0.77

samples with spot = 2 (8.7 %)
MLH1_adenomaHNPCC : 1 (50 %)
MLH1_cancerHNPCC : 1 (20 %)

Overview Map

Spot

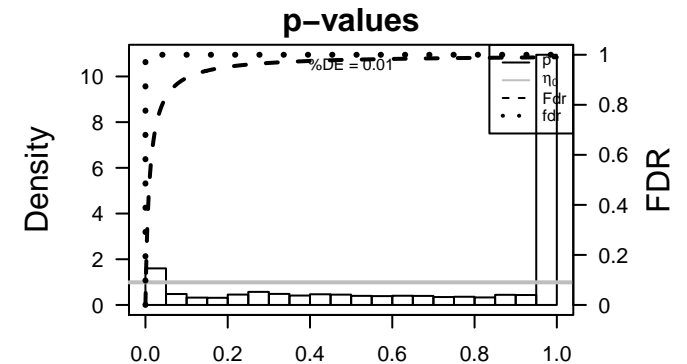


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG000000	0.85	-0.08	0.52	TESC tescalcin [Source:HGNC Symbol;Acc:HGNC:26065]
2	ENSG000001	0.62	-0.04	0.29	DUSP27 dual specificity phosphatase 27 (putative) [Source:HGNC Syr
3	ENSG000001	0.57	-0.3	0.64	RPLP2 ribosomal protein, large, P2 [Source:HGNC Symbol;Acc:HGNC
4	ENSG000001	0.51	-0.3	0.8	NENF neudesin neurotrophic factor [Source:HGNC Symbol;Acc:HGNC
5	ENSG000001	0.48	-0.35	0.62	LOC101926370 normal protein S26 [Source:HGNC Symbol;Acc:HGNC:10
6	ENSG000002	0.47	-0.22	0.73	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:H3I
7	ENSG000001	0.46	-0.1	0.62	DUOXA2 dual oxidase maturation factor 2 [Source:HGNC Symbol;Acc:HGNC
8	ENSG000001	0.46	-0.14	0.74	GCHFR GTP cyclohydrolase I feedback regulator [Source:HGNC Syrr
9	ENSG000001	0.46	-0.15	0.91	ZNF593 zinc finger protein 593 [Source:HGNC Symbol;Acc:HGNC:30
10	ENSG000001	0.44	-0.07	0.6	TACSTD2 tumor-associated calcium signal transducer 2 [Source:HGNC
11	ENSG000000	0.44	-0.08	0.62	RTEL1-TNFRSF6B readthrough (NMD candidate) [Source:H
12	ENSG000001	0.4	-0.15	0.86	LSMEM2 leucine-rich single-pass membrane protein 2 [Source:HGNC
13	ENSG000001	0.4	-0.18	0.83	NDUFB1 NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 11, 1
14	ENSG000001	0.39	-0.13	0.78	ARSE arylsulfatase E (chondrodysplasia punctata 1) [Source:HGNC
15	ENSG000001	0.39	-0.19	0.75	SEC61B Sec61 beta subunit [Source:HGNC Symbol;Acc:HGNC:1699
16	ENSG000001	0.39	-0.08	0.61	CPNE7 copine VII [Source:HGNC Symbol;Acc:HGNC:2320]
17	ENSG000002	0.38	-0.21	0.74	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:H0
18	ENSG000001	0.36	-0.07	0.76	NMU neuromedin U [Source:HGNC Symbol;Acc:HGNC:7859]
19	ENSG000001	0.36	-0.14	0.64	KCNE3 potassium channel, voltage gated subfamily E regulatory beta
20	ENSG000001	0.36	-0.04	0.68	PF4 platelet factor 4 [Source:HGNC Symbol;Acc:HGNC:8861]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	4e-50	350 / 8123	Colon TssF_Colon
2	7e-45	391 / 10475	Colon TssA_Colon
3	8e-42	98 / 807	Lymph Hopp_June14_MMLL937_tumors+controls_group.overexpression_D_cell
4	8e-41	97 / 811	Lymph WIRTH_lymphoma937_spot D
5	4e-33	82 / 713	Colon Pentrack_CRC_TCGA_group.over_C_normal_DN
6	2e-31	92 / 944	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
7	5e-30	355 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
8	4e-29	84 / 850	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
9	2e-28	67 / 550	Cancer Lembecke_Normal vs Adenoma
10	8e-28	30 / 82	BP mitochondrial translational elongation
11	8e-28	32 / 98	BP mitochondrial translation
12	2e-27	30 / 84	BP mitochondrial translational termination
13	2e-26	29 / 82	BP mitochondrial translational initiation
14	2e-25	77 / 813	GSE/ GRADE_COLON_CANCER_UP
15	3e-25	60 / 499	GSE/ STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
16	4e-24	34 / 145	Glio WILLSCHER_GBM_Verhaak-CL_up (C)
17	4e-23	101 / 1441	CC mitochondrion
18	7e-23	42 / 259	BP translation
19	1e-22	264 / 6761	Color TssD2_Colon
20	2e-21	51 / 425	CC mitochondrial inner membrane
21	1e-20	2 / 16	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
22	5e-20	66 / 754	GSE/ MARTENS_TRETINOIN_RESPONSE_DN
23	1e-19	57 / 582	GSE/ CAIRO_HEPATOBLASTOMA_CLASSES_UP
24	2e-19	55 / 546	GSE/ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
25	2e-18	329 / 9930	Color Tx_Colon
26	4e-18	41 / 327	GSE/ WONG_EMBRYONIC_STEM_CELL_CORE
27	5e-18	31 / 179	GSE/ GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP
28	8e-18	66 / 830	Color Pentrack_CRC_TCGA_corr_R_normal_DN
29	2e-17	52 / 543	GSE/ TIEN_INTESTINE_PROBIOTICS_24HR_UP
30	2e-17	290 / 8358	Lymph HOPP_Active_promoter
31	2e-17	29 / 162	MF structural constituent of ribosome
32	3e-17	35 / 248	GSE/ KOBAYASHI_EGFR_SIGNALING_24HR_DN
33	3e-17	30 / 177	GSE/ YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_17
34	7e-17	62 / 775	GSE/ WEI_MYCN_TARGETS_WITH_E_BOX
35	8e-17	57 / 668	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
36	3e-16	36 / 282	GSE/ MANALO_HYPOXIA_DN
37	4e-16	330 / 10239	Brain Overlap_fetal_midbrain_ReprPC
38	4e-16	45 / 446	GSE/ SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
39	2e-15	52 / 608	GSE/ BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_DN
40	7e-15	67 / 975	GSE/ NUYTTEN_EZH2_TARGETS_DN



K-Means Clusters

Spot Summary: N

metagenes = 578

genes = 7452

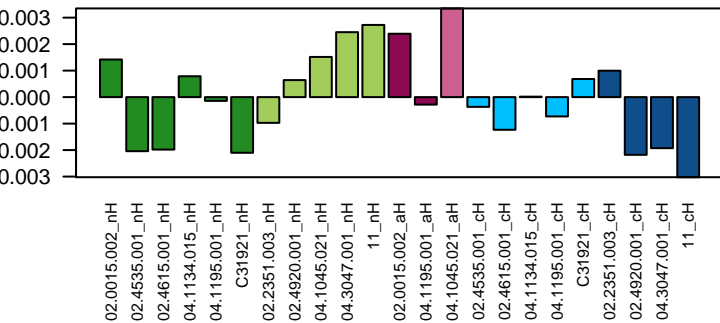
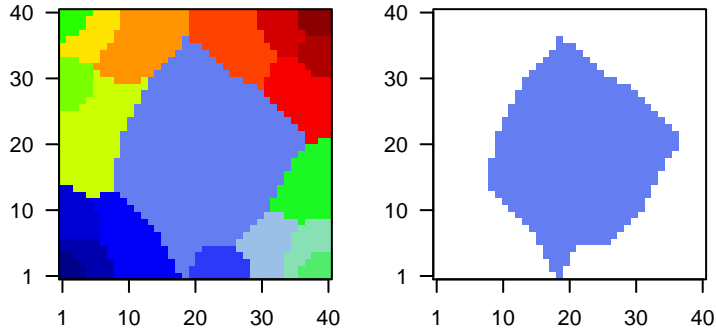
<r> metagenes = 0.09

beta: r2= 0 / log p= -0.04

samples with spot = 0 (0 %)

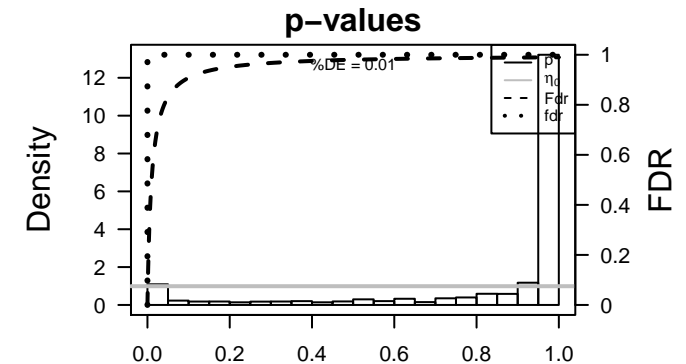
Overview Map

Spot



Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	1723 / 3064	Glio Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
2	1e-99	1960 / 3406	Colon ReprPC_Colon
3	1e-99	1692 / 2947	Colon ReprPCWk_Colon
4	2e-81	2440 / 5039	Lymp HOPP_Repressed
5	5e-74	536 / 781	Glio Hopp_Sturm_GBM_Epi3_A_adult_fetus_UP_G34_DN
6	3e-71	1023 / 1798	TF HEBENSTREIT_low expression TF
7	3e-71	408 / 551	MF G-protein coupled receptor activity
8	5e-69	170 / 173	BP detection of chemical stimulus involved in sensory perception of smell
9	1e-68	169 / 172	MF olfactory receptor activity
10	6e-60	1101 / 2041	Colon EnhP_Colon
11	7e-59	969 / 1753	Colon Het_Colon
12	1e-51	178 / 202	Tissu WIRTH_Testis
13	1e-50	133 / 138	GSE/ REACTOME_OLFACTORY_SIGNALING_PATHWAY
14	8e-49	161 / 180	GSE/ KEGG_OLFACTORY_TRANSDUCTION
15	1e-45	451 / 718	BP G-protein coupled receptor signaling pathway
16	2e-43	360 / 546	GSE/ MIKKELSEN_MEF_HCP_WITH_H3K27ME3
17	4e-39	1481 / 3109	Colon TssP_Colon
18	8e-39	966 / 1890	Brain Overlap_fetal_midbrain_TssF
19	2e-38	2353 / 5285	Toxic LU_BPDE 0.005 DN
20	2e-36	266 / 389	Colon K9K27me3_Colon
21	2e-36	601 / 1084	Brain Overlap_fetal_midbrain_EnhG
22	2e-36	690 / 1281	Colon HetRpts_Colon
23	3e-33	107 / 119	BP sensory perception of smell
24	4e-31	733 / 1418	GSE/ ZWANG_TRANSIENTLY_UP_BY_2ND_EGF_PULSE_ONLY
25	2e-28	749 / 1478	Brain Overlap_fetal_midbrain_TxTrans
26	2e-27	659 / 1279	Brain Overlap_fetal_midbrain_Enh
27	5e-27	315 / 525	Colon Quies2_Colon
28	5e-24	336 / 585	GSE/ REACTOME_GPCR_DOWNSTREAM_SIGNALING
29	2e-23	1542 / 3457	Lymp HOPP_Heterochrom
30	3e-23	302 / 517	Glio Hopp_Sturm_GBM_Epi3_B_adult_UP_G34_DN
31	9e-23	662 / 1327	Brain Mid_Frontal_Lobe_TssP
32	8e-22	430 / 805	Brain Mid_Frontal_Lobe_EnhG
33	9e-22	247 / 410	GSE/ MIKKELSEN_MCV6_HCP_WITH_H3K27ME3
34	3e-21	337 / 604	GSE/ BENPORATH_PRC2_TARGETS
35	4e-21	2088 / 4879	Colon Quies1_Colon
36	9e-21	168 / 255	GSE/ KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION
37	9e-21	276 / 476	Tissu WIRTH_Nervous System
38	1e-20	374 / 689	GSE/ REACTOME_SIGNALING_BY_GPCR
39	2e-19	437 / 840	Brain Mid_Frontal_Lobe_TssF
40	3e-19	108 / 147	Glio WILLSCHEER_GBM_Verhaak-PN (mut&wt)_up_(MES&CL down)



Agging value	#in/all
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
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39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50

Geneset	#in/all
AGING_BORFF_age_hypermethylated	51/144
HORVAH_age_genes_meth UP	144/123
HORVAH_age_genes_meth DOWN	0/0
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50

Rank	p-value	#in/all
1	1e-08	461/713
2	1e-09	232/419
3	1e-09	42/74
4	1e-09	81/114
5	1e-09	169/308
6	1e-09	40/59
7	1e-09	67/104
8	1e-09	51/353
9	1e-09	11/16
10	1e-09	38/59
11	1e-07	36/52
12	1e-06	14/14
13	1e-06	169/345
14	0	0/0
15	0	0/0
16	0	0/0
17	0	0/0
18	0	0/0
19	0	0/0
20	0	0/0
21	0	0/0
22	0	0/0
23	0	0/0
24	0	0/0
25	0	0/0
26	0	0/0
27	0	0/0
28	0	0/0
29	0	0/0
30	0	0/0

Geneset	#in/all
Biological chemical stimulus involved in sensory perception of smell	461/713
G-protein coupled receptor signaling pathway	232/419
sensory perception of smell	42/74
synaptic transmission	81/114
detection of chemical stimulus involved in sensory perception	169/308
regulation of membrane potential	40/59
regulation of ion transmembrane transport	67/104
ion transport	51/353
neurological system process	11/16
ion transmembrane transport	38/59
potassium ion transmembrane transport	1e-07
neuropeptide signaling pathway	1e-06
response to stimulus	1e-06
response to chemical stimulus involved in sensory perception of bitter taste	1e-07
response to taste	1e-06
response to stimulus	1e-06
detection of chemical stimulus involved in sensory perception of bitter taste	1e-07
response to stimulus	1e-06
G-protein coupled receptor signaling pathway, coupled to cyclic nucleotide se	1e-06
permatogenesis	1e-06
0	0/0
1	0/0
2	0/0
3	0/0
4	0/0
5	0/0
6	0/0
7	0/0
8	0/0
9	0/0
10	0/0
11	0/0
12	0/0
13	0/0
14	0/0
15	0/0
16	0/0
17	0/0
18	0/0
19	0/0
20	0/0
21	0/0
22	0/0
23	0/0
24	0/0
25	0/0
26	0/0
27	0/0
28	0/0
29	0/0
30	0/0

Rank	p-value	#in/all
1	1e-06	898/1300
2	1e-06	760/1084
3	1e-06	746/1078
4	1e-06	689/1276
5	1e-06	630/1277
6	1e-06	437/810
7	1e-06	437/810
8	1e-06	398/810
9	1e-06	179/340
10	1e-06	409/810
11	1e-06	179/340
12	1e-06	363/787
13	1e-06	505/1087
14	1e-06	138/268
15	1e-06	153/268
16	1e-04	976/2443
17	1e-04	1170/2986
18	1e-02	533/1356
19	0	0/0
20	0	0/0
21	0	0/0
22	0	0/0
23	0	0/0
24	0	0/0
25	0	0/0
26	0	0/0
27	0	0/0
28	0	0/0
29	0	0/0
30	0	0/0

Geneset	#in/all
Overlap_teta_midbrain_TssF	898/1300
Overlap_teta_midbrain_EnhG	760/1084
Overlap_teta_midbrain_LXTrans	746/1078
Overlap_teta_midbrain_EnhP	689/1276
Mid_Frontal_Lobe_TssP	630/1277
Mid_Frontal_Lobe_TssG	437/810
Overlap_teta_midbrain_TssA	437/810
Mid_Frontal_Lobe_LXTrans	398/810
Mid_Frontal_Lobe_LX	179/340
Mid_Frontal_Lobe_Enh	409/810
Overlap_teta_midbrain_TssP	179/340
Overlap_teta_midbrain_LX	363/787
Meta_LXTrans	505/1087
Overlap_teta_midbrain_EnhP	138/268
Meta_LXTrans	153/268
Meta_Ques1	976/2443
Meta_TssA	1170/2986
Meta_K9K27me3	533/1356
0	0/0
1	0/0
2	0/0
3	0/0
4	0/0
5	0/0
6	0/0
7	0/0
8	0/0
9	0/0
10	0/0
11	0/0
12	0/0
13	0/0
14	0/0
15	0/0

Cancer	#in/all
1	4/28
2	6/10
3	4/21
4	6/10
5	4/21
6	7/14
7	4/21
8	14/48
9	14/48
10	14/48
11	14/48
12	14/48
13	14/48
14	14/48
15	14/48
16	14/48
17	14/48
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35	14/48
36	14/48
37	14/48
38	14/48
39	14/48
40	14/48
41	14/48
42	14/48
43	14/48
44	14/48
45	14/48
46	14/48
47	14/48
48	14/48
49	14/48
50	14/48

Geneset	#in/all
Pan_Can_Hi_geneset_nanostring	4/28
WANE_EST_CANCER	6/10
SOTRIOL_BREAST_CANCER_GRADE_1_VS_3_DN	4/21
LIU_COLORECTAL_CANCER_GENES	6/10
Pan_Can_MAPK_geneset_nanostring	4/21
ZHANG_TGCS_up	7/14
Pan_Can_Gli3_geneset_nanostring	4/21
Pan_Can_Gliomoid_geneset_nanostring	7/14
Pan_Can_RAS_geneset_nanostring	4/21
Pan_Can_Vtg_geneset_nanostring	7/14
LIU_PROSTATE_CANCER_UP	14/48
GENE_LORATH_UP	14/48
LIU_PROSTATE_CANCER_DN	14/48
0	0/0
1	0/0
2	0/0
3	0/0
4	0/0
5	0/0
6	0/0
7	0/0
8	0/0
9	0/0
10	0/0
11	0/0
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13	0/0
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24	0/0
25	0/0
26	0/0
27	0/0
28	0/0
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33	0/0
34	0/0
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36	0/0
37	0/0
38	0/0
39	0/0
40	0/0
41	0/0
42	0/0
43	0/0
44	0/0
45	0/0
46	0/0
47	0/0
48	0/0
49	0/0
50	0/0

Rank	p-value	#in/all
1	1e-10	539/1374
2	1e-10	567/1380
3	1e-10	1665/4052
4	1e-06	43/126
5	1e-06	14/15
6	1e-06	15/17
7	1e-06	10/34
8	1e-06	19/422
9	1e-06	54/966
10	1e-06	29/263
11	1e-06	369/868
12	1e-06	36/40
13	0	0/0
14	0	0/0
15	0	0/0
16	0	0/0
17	0	0/0
18	0	0/0
19	0	0/0
20	0	0/0
21	0	0/0
22	0	0/0
23	0	0/0
24	0	0/0
25	0	0/0
26	0	0/0
27	0	0/0
28	0	0/0
29	0	0/0
30	0	0/0

Geneset	#in/all
extracellular region	539/1374
postsynaptic membrane	567/1380
integral component of plasma membrane	1665/4052
synapse	43/126
synaptic cleft	14/15
photoreceptor disc membrane	15/17
axoneme	10/34
GABA-A receptor complex	19/422
photoreceptor inner segment	54/966
voltage-gated potassium channel complex	29/263
cell junction	369/868
myosin filament	36/40
intermediate filament	0/0
cyllium	0/0
photoreceptor outer segment	0/0
presynaptic membrane	0/0
voltage-gated calcium channel complex	0/0
myofibril	0/0
0	0/0
1	0/0
2	0/0
3	0/0
4	0/0
5	0/0
6	0/0
7	0/0
8	0/0
9	0/0
10	0/0
11	0/0
12	0/0
13	0/0
14	0/0
15	0/0

Rank	p-value	#in/all
1	1e-06	566/17425
2	1e-06	369/738
3	1e-06	115/297
4	1e-06	245/657
5	1e-06	377/1017
6	1e-06	226/613
7	1e-06	311/228
8	1e-06	194/318
9	1e-06	196/326
10	1e-06	378/1043
11	1e-06	186/365
12	1e-06	366/662
13	1e-06	103/259
14	1e-06	35/92
15	0	0/0
16	0	0/0
17	0	0/0
18	0	0/0
19	0	0/0
20	0	0/0
21	0	0/0
22	0	0/0
23	0	0/0
24	0	0/0
25	0	0/0
26	0	0/0
27	0	0/0
28	0	0/0
29	0	0/0
30	0	0/0

Geneset	#in/all
Ccr1t_19	566/17425
Ccr1t_9	369/738
Ccr1t_18	115/297
Ccr1t_6	245/657
Ccr1t_14	377/1017
Ccr1t_14	226/613
Ccr1t_14	311/228
Ccr1t_13	194/318
Ccr1t_13	196/326
Ccr1t_15	378/1043
Ccr1t_15	186/365
Ccr1t_15	366/662
Ccr1t_15	103/259
Ccr1t_15	35/92
0	0/0
1	0/0
2	0/0
3	0/0
4	0/0
5	0/0
6	0/0
7	0/0
8	0/0
9	0/0
10	0/0
11	0/0
12	0/0
13	0/0
14	0/0
15	0/0

K-Means Clusters

Spot Summary: O

metagenes = 85
genes = 1004

<r> metagenes = 0.78

beta: r2= 0.02 / log p= -0.25

samples with spot = 0 (0 %)

Spot Genelist

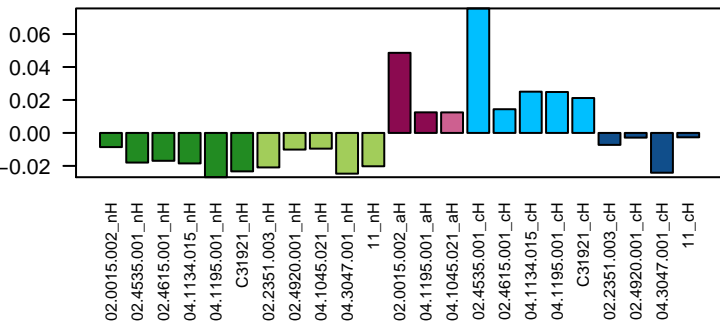
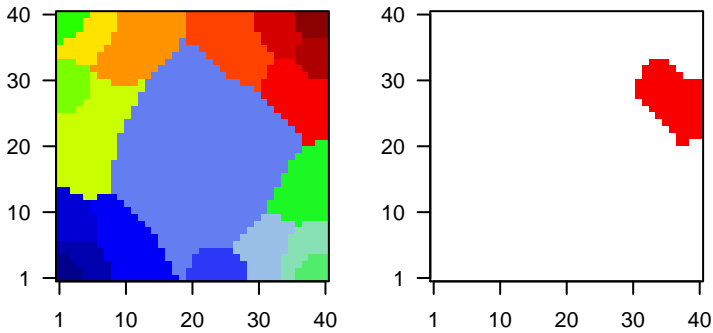
Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG000000	1.19	-0.05	0.63	PAGE1 P antigen family, member 1 (prostate associated) [Source:HG
2	ENSG000000	0.98	-0.05	0.63	
3	ENSG000000	0.93	-0.04	0.63	GAGE12 antigen 12G [Source:HGNC Symbol;Acc:HGNC:31907]
4	ENSG000000	0.93	-0.04	0.63	GAGE2DG antigen 12F [Source:HGNC Symbol;Acc:HGNC:31906]
5	ENSG000000	0.86	-0.04	0.63	
6	ENSG000000	0.79	-0.04	0.63	GAGE12 antigen 12J [Source:HGNC Symbol;Acc:HGNC:17778]
7	ENSG000000	0.79	-0.13	0.52	RBP4 retinol binding protein 4, plasma [Source:HGNC Symbol;Acc:
8	ENSG000000	0.79	-0.04	0.63	
9	ENSG000000	0.78	-0.04	0.63	
10	ENSG000000	0.74	-0.03	0.63	GAGE12 antigen 12E [Source:HGNC Symbol;Acc:HGNC:31905]
11	ENSG000000	0.73	-0.17	0.3	EXOC3 exocyst complex component 3 [Source:HGNC Symbol;Acc:Hi
12	ENSG000000	0.72	-0.07	0.62	GPC3 glypican 3 [Source:HGNC Symbol;Acc:HGNC:4451]
13	ENSG000000	0.72	-0.03	0.64	MAGEA6melanoma antigen family A6 [Source:HGNC Symbol;Acc:HGI
14	ENSG000000	0.71	-0.03	0.63	GAGE12 antigen 12C [Source:HGNC Symbol;Acc:HGNC:28402]
15	ENSG000000	0.71	-0.03	0.63	GAGE12 antigen 12D [Source:HGNC Symbol;Acc:HGNC:31904]
16	ENSG000000	0.7	-0.03	0.63	
17	ENSG000000	0.66	-0.03	0.64	MAGEA3melanoma antigen family A3 [Source:HGNC Symbol;Acc:HGI
18	ENSG000000	0.64	-0.03	0.63	GAGE12 antigen 12H [Source:HGNC Symbol;Acc:HGNC:31908]
19	ENSG000000	0.63	-0.09	0.6	CYP2B6 cytochrome P450, family 2, subfamily B, polypeptide 6 [Sourc
20	ENSG000000	0.63	-0.03	0.63	GAGE8 G antigen 2A [Source:HGNC Symbol;Acc:HGNC:4099]

Geneset Overrepresentation

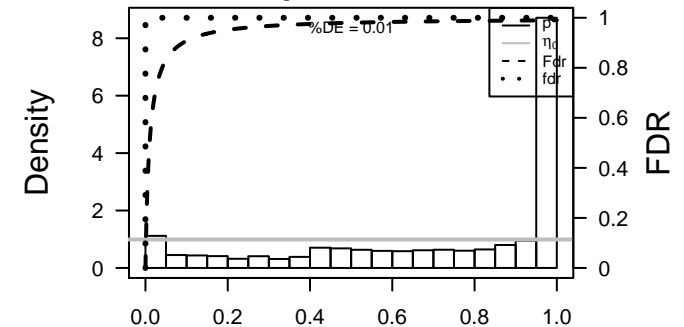
Rank	p-value	#in/all	Geneset
1	4e-36	110 / 550	Cancer_Lembcke_Normal vs Adenoma
2	2e-33	132 / 811	Lymph_WIRTH_lymphoma937_spot D
3	2e-32	130 / 807	Lymph_Hopp_June14_MMML937 tumors+controls_group.overexpression_D_cell li
4	5e-27	579 / 8123	Colon_TssF_Colon
5	2e-25	691 / 10475	Colon_TssA_Colon
6	6e-25	663 / 9923	Brain_Overlap_fetal_midbrain_K9K27me3
7	2e-21	87 / 546	GSE/GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
8	2e-20	96 / 668	GSE/MARSON_BOUND_BY_E2F4_UNSTIMULATED
9	4e-20	620 / 9390	Colon_TxWk_Colon
10	1e-19	645 / 9930	Colon_Tx_Colon
11	4e-17	395 / 5393	TF_ICGC_Sp1_targets
12	1e-16	381 / 5173	TF_ICGC_Taf1_targets
13	1e-16	469 / 6761	Colon_TssD2_Colon
14	1e-16	340 / 4470	TF_ICGC_Creb1_targets
15	7e-16	335 / 4436	TF_ICGC_Zeb1_targets
16	8e-16	109 / 944	GSE/KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
17	2e-15	399 / 5578	TF_ICGC_Stat5_targets
18	5e-15	394 / 5526	TF_ICGC_Pmlsc71910_targets
19	3e-14	464 / 6862	TF_ICGC_Elf1_targets
20	3e-13	51 / 316	GSE/DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
21	3e-13	138 / 1441	CC_mitochondrion
22	5e-13	373 / 5308	TF_ICGC_Tcf12_targets
23	1e-12	659 / 10800	Brain_Overlap_fetal_midbrain_Quies
24	2e-12	258 / 3370	Brain_Mid_Frontal_Lobe_ZNF
25	3e-12	425 / 6313	TF_ICGC_Pou2_targets
26	3e-12	416 / 6157	TF_ICGC_Tcf3_targets
27	3e-12	425 / 6322	TF_ICGC_Pol2_targets
28	7e-12	406 / 6005	TF_ICGC_Mta3_targets
29	1e-11	90 / 830	Color_Pentrack_CRC_TCGA_corr_R_normal_DN
30	1e-11	40 / 233	Lymph_Hopp_June14_MMML937 tumors+controls_group.overexpression_B_cell li
31	2e-11	469 / 7202	TF_ICGC_Runx3_targets
32	2e-11	421 / 6324	TF_ICGC_Yy1_targets
33	3e-11	624 / 10239	Brain_Overlap_fetal_midbrain_ReprPC
34	4e-11	40 / 240	Lymph_WIRTH_lymphoma937_spot B
35	4e-11	90 / 850	GSE/KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
36	1e-10	129 / 1425	Chr Chr 19
37	2e-10	29 / 145	Glio_WILLSCHER_GBM_Verhaak-CL_up (C)
38	2e-10	136 / 1549	TF_ICGC_Myc_targets
39	6e-10	366 / 5453	TF_ICGC_Foxm1_targets
40	7e-10	578 / 9470	Color_Quies3_Colon

Overview Map

Spot



p-values



K-Means Clusters

Spot Summary: P

metagenes = 98
genes = 1048

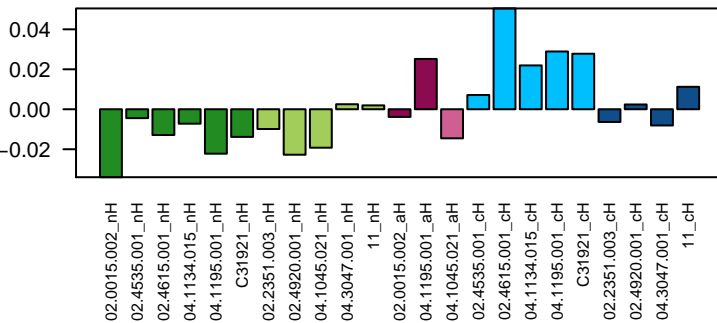
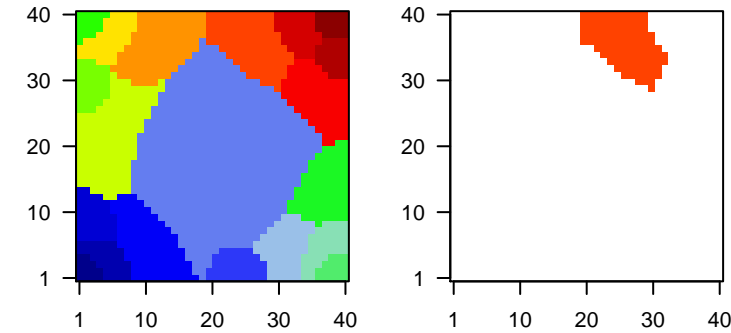
<r> metagenes = 0.75

beta: r2= 0.01 / log p= -0.2

samples with spot = 0 (0 %)

Overview Map

Spot

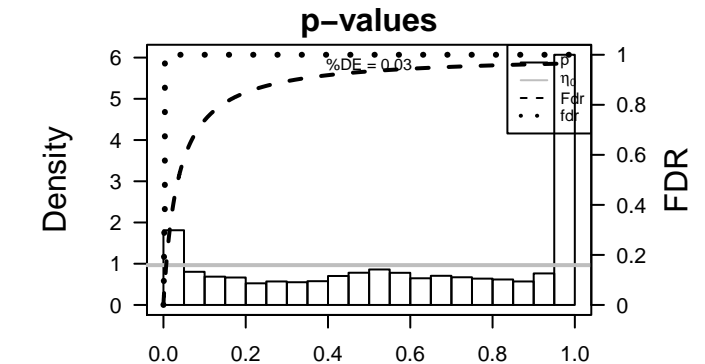


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	1.1	-0.2	0.26	HBA2 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:HGNC:4824]
2	ENSG0000002	1.08	-0.17	0.24	HBA1 hemoglobin, alpha 1 [Source:HGNC Symbol;Acc:HGNC:4823]
3	ENSG0000001	0.84	-0.25	0.49	CXCL10 chemokine (C-X-C motif) ligand 10 [Source:HGNC Symbol;Acc:HGNC:4824]
4	ENSG0000001	0.73	-0.36	0.36	IFI6 interferon, alpha-inducible protein 6 [Source:HGNC Symbol;Acc:HGNC:4824]
5	ENSG0000001	0.65	-0.17	0.28	APOE apolipoprotein E [Source:HGNC Symbol;Acc:HGNC:613]
6	ENSG0000001	0.63	-0.14	0.5	IL1B interleukin 1, beta [Source:HGNC Symbol;Acc:HGNC:5992]
7	ENSG0000002	0.6	-0.19	0.33	GABBR1 gamma-aminobutyric acid (GABA) B receptor, 1 [Source:HGNC Symbol;Acc:HGNC:4824]
8	ENSG0000001	0.59	-0.05	0.57	HCAR2 hydroxycarboxylic acid receptor 2 [Source:HGNC Symbol;Acc:HGNC:4824]
9	ENSG0000002	0.55	-0.04	0.62	HCAR3 hydroxycarboxylic acid receptor 3 [Source:HGNC Symbol;Acc:HGNC:4824]
10	ENSG0000001	0.47	-0.09	0.33	CXCL11 chemokine (C-X-C motif) ligand 11 [Source:HGNC Symbol;Acc:HGNC:4824]
11	ENSG0000001	0.46	-0.15	0.34	STMN3 stathmin-like 3 [Source:HGNC Symbol;Acc:HGNC:15926]
12	ENSG0000001	0.45	-0.05	0.54	IL23A interleukin 23, alpha subunit p19 [Source:HGNC Symbol;Acc:HGNC:4824]
13	ENSG0000001	0.43	-0.03	0.14	SLC39A2 solute carrier family 39 (zinc transporter), member 2 [Source:HGNC Symbol;Acc:HGNC:4824]
14	ENSG0000001	0.42	-0.02	0.6	CALB1 calbindin 1, 28kDa [Source:HGNC Symbol;Acc:HGNC:1434]
15	ENSG0000002	0.42	-0.08	0.4	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:J3P...]
16	ENSG0000000	0.4	-0.02	0.55	CYP24A1 cytochrome P450, family 24, subfamily A, polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:4824]
17	ENSG0000000	0.4	-0.03	0.64	OSM oncostatin M [Source:HGNC Symbol;Acc:HGNC:8506]
18	ENSG0000001	0.38	-0.26	0.36	UBE2L6 ubiquitin-conjugating enzyme E2L 6 [Source:HGNC Symbol;Acc:HGNC:4824]
19	ENSG0000001	0.37	-0.04	0.38	COL7A1 collagen, type VII, alpha 1 [Source:HGNC Symbol;Acc:HGNC:4824]
20	ENSG0000001	0.36	-0.03	0.2	EDAR ectodysplasin A receptor [Source:HGNC Symbol;Acc:HGNC:4824]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-63	231 / 1298	GSE/ DODD_NASOPHARYNGEAL_CARCI..._DN
2	3e-61	658 / 7491	Lymp/ HOPP_Txn_elongation
3	2e-43	664 / 8358	Lymp/ HOPP_Active_promoter
4	1e-37	746 / 10239	Brain/ Overlap_fetal_midbrain_ReprPC
5	2e-37	147 / 859	GSE/ LEE_BMP2_TARGETS_DN
6	7e-36	529 / 6320	Brain/ Overlap_fetal_midbrain_HetRpts
7	2e-34	176 / 1228	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
8	9e-34	136 / 807	Lymp/ Hopp_June14_MMML937_tumors+controls_group.overexpression_D_cell
9	2e-32	134 / 811	Lymp/ WIRTH_lymphoma937_spot D
10	2e-31	129 / 775	GSE/ WEI_MYCN_TARGETS_WITH_E_BOX
11	6e-27	99 / 550	Canc/ Lembcke_Normal vs Adenoma
12	3e-26	104 / 610	GSE/ RODRIGUES_THYROID_CARCI..._POORLY_DIFFERENTIATED_UP
13	2e-25	722 / 10475	Color/ TssA_Colon
14	3e-23	122 / 862	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
15	1e-22	590 / 8147	Lymp/ HOPP_Weak_promoter
16	2e-22	660 / 9470	Color/ Quies3_Colon
17	3e-22	683 / 9923	Brain/ Overlap_fetal_midbrain_K9K27me3
18	4e-22	117 / 830	Color/ Pentrack_CRC_TCGA_corr_R_normal_DN
19	5e-22	445 / 5643	Lymp/ HOPP_Txn_transition
20	1e-21	653 / 9390	Color/ TxWk_Colon
21	3e-20	694 / 10278	Brain/ Overlap_fetal_midbrain_ReprPCWk
22	5e-19	774 / 11968	Color/ TssWk_Colon
23	1e-18	97 / 683	GSE/ RODRIGUES_THYROID_CARCI..._ANAPLASTIC_UP
24	4e-18	57 / 284	GSE/ SENGUPTA_NASOPHARYNGEAL_CARCI..._UP
25	2e-17	190 / 1914	GSE/ PILON_KLF1_TARGETS_DN
26	2e-17	665 / 9930	Color/ Tx_Colon
27	5e-17	42 / 171	Lymp/ WIRTH_lymphoma937_spot C
28	1e-16	41 / 167	Lymp/ Hopp_June14_MMML937_tumors+controls_group.overexpression_C_cell
29	1e-15	155 / 1503	TF/ ICGC_Six5_targets
30	1e-15	96 / 747	GSE/ PUJANA_CHEK2_PCC_NETWORK
31	1e-15	112 / 944	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
32	4e-15	52 / 282	GSE/ MANALO_HYPOXIA_DN
33	1e-13	62 / 410	BP/ mitotic cell cycle
34	6e-13	73 / 546	GSE/ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
35	8e-13	83 / 668	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
36	1e-12	107 / 975	GSE/ NUYTEN_EZH2_TARGETS_DN
37	3e-12	96 / 850	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
38	5e-12	74 / 582	GSE/ CAIRO_HEPATOBLASTOMA_CLASSES_UP
39	6e-12	446 / 6389	Lymp/ HOPP_Weak_txn
40	8e-12	59 / 415	GSE/ GARY_CD5_TARGETS_DN



K-Means Clusters

Spot Summary: Q

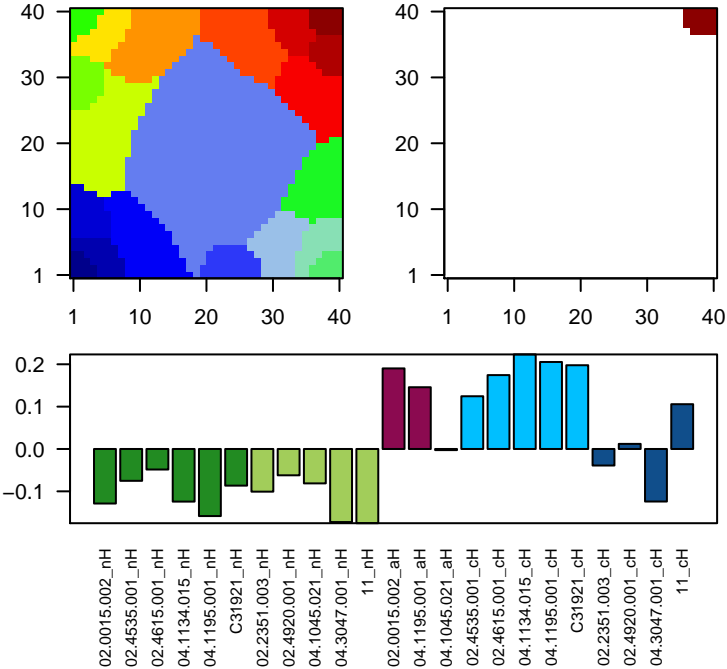
metagenes = 19
genes = 360

<r> metagenes = 0.97
<r> genes = 0.62
beta: r2= 0.29 / log p= -2.07

samples with spot = 8 (34.8 %)
MLH1_adenomaHNPCC : 2 (100 %)
MLH1_cancerHNPCC : 5 (100 %)
other_cancerHNPCC : 1 (25 %)

Overview Map

Spot

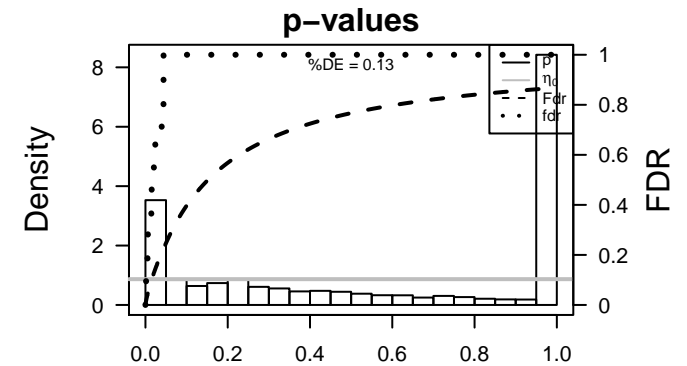


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG00000001	1.84	-0.57	0.56	REG1A regenerating islet-derived 1 alpha [Source:HGNC Symbol;Acc:HGNC:11111]
2	ENSG00000001	1.71	-0.34	0.52	ITLN1 intelectin 1 (galactofuranose binding) [Source:HGNC Symbol;Acc:HGNC:11112]
3	ENSG00000001	1.65	-0.75	0.61	OLFM4 olfactomedin 4 [Source:HGNC Symbol;Acc:HGNC:17190]
4	ENSG00000001	1.57	-0.24	0.56	REG3A regenerating islet-derived 3 alpha [Source:HGNC Symbol;Acc:HGNC:11113]
5	ENSG00000001	1.47	-0.28	0.62	MMP1 matrix metalloproteinase 1 [Source:HGNC Symbol;Acc:HGNC:11114]
6	ENSG00000001	1.33	-0.75	0.39	PLA2G2A phospholipase A2, group IIA (platelets, synovial fluid) [Source:HGNC Symbol;Acc:HGNC:11115]
7	ENSG00000001	1.31	-0.29	0.42	CXCL8 chemokine (C-X-C motif) ligand 8 [Source:HGNC Symbol;Acc:HGNC:11116]
8	ENSG00000001	1.27	-0.21	0.49	REG1B regenerating islet-derived 1 beta [Source:HGNC Symbol;Acc:HGNC:11117]
9	ENSG00000001	1.25	-0.21	0.55	DMBT1 deleted in malignant brain tumors 1 [Source:HGNC Symbol;Acc:HGNC:11118]
10	ENSG00000001	1.17	-0.36	0.47	REG4 regenerating islet-derived family, member 4 [Source:HGNC Symbol;Acc:HGNC:11119]
11	ENSG00000001	1.16	-0.2	0.61	MMP3 matrix metalloproteinase 3 [Source:HGNC Symbol;Acc:HGNC:11120]
12	ENSG00000001	1.15	-0.44	0.7	SPINK1 serine peptidase inhibitor, Kazal type 1 [Source:HGNC Symbol;Acc:HGNC:11121]
13	ENSG00000000	1.15	-0.35	0.51	CLCA1 chloride channel accessory 1 [Source:HGNC Symbol;Acc:HGNC:11122]
14	ENSG00000002	1.1	-0.18	0.55	TNFRSF6B tumor necrosis factor receptor superfamily, member 6b, decoy [Source:HGNC Symbol;Acc:HGNC:11123]
15	ENSG00000001	1.05	-0.66	0.84	LCN2 lipocalin 2 [Source:HGNC Symbol;Acc:HGNC:6526]
16	ENSG00000001	1.05	-0.87	0.75	AGR2 anterior gradient 2, protein disulphide isomerase family member 2 [Source:HGNC Symbol;Acc:HGNC:11124]
17	ENSG00000001	0.98	-0.17	0.44	SPP1 secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:HGNC:11125]
18	ENSG00000001	0.97	-0.41	0.62	SPINK4 serine peptidase inhibitor, Kazal type 4 [Source:HGNC Symbol;Acc:HGNC:11126]
19	ENSG00000001	0.91	-1	0.73	GPX2 glutathione peroxidase 2 [Source:HGNC Symbol;Acc:HGNC:11127]
20	ENSG00000001	0.87	-0.25	0.49	CYP2S1 cytochrome P450, family 2, subfamily S, polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:11128]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	4e-48	94 / 813	GSE# GRADE_COLON_CANCER_UP
2	2e-44	85 / 713	Colon Pentrack_CRC_TCGA_group.over_C_normal_DN
3	3e-44	78 / 582	GSE# CAIRO_HEPATOBLASTOMA_CLASSES_UP
4	5e-42	41 / 113	GSE# WHITEFORD_PEDIATRIC_CANCER_MARKERS
5	6e-41	64 / 400	GSE# VECCHI_GASTRIC_CANCER_EARLY_UP
6	8e-41	59 / 327	GSE# WONG_EMBRYONIC_STEM_CELL_CORE
7	8e-40	70 / 519	GSE# BERENJENO_TRANSFORMED_BY_RHOA_UP
8	6e-38	58 / 350	GSE# RHEIN_ALL_GLUCOCORTICOID_THERAPY_DN
9	5e-37	50 / 248	GSE# KOBAYASHI_EGFR_SIGNALING_24HR_DN
10	6e-36	43 / 174	GSE# LI_AMPLIFIED_IN_LUNG_CANCER
11	4e-35	39 / 138	GSE# ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
12	2e-34	76 / 754	GSE# MARTENS_TRETINOIN_RESPONSE_DN
13	1e-33	43 / 195	HM HALLMARK_MYC_TARGETS_V1
14	3e-33	78 / 830	Color Pentrack_CRC_TCGA_corr_R_normal_DN
15	1e-32	69 / 645	GSE# CASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_DN
16	2e-32	48 / 275	GSE# GRADE_COLON_AND_RECTAL_CANCER_UP
17	2e-32	76 / 807	Lymph Hopp_June14_MMML937_tumors+controls_group.overexpression_D_cell li
18	1e-31	49 / 303	GSE# HORIUUCHI_WTAP_TARGETS_DN
19	2e-31	75 / 811	Lymph WIRTH_lymphoma937_spot D
20	5e-31	41 / 197	HM HALLMARK_E2F_TARGETS
21	6e-31	103 / 1563	GSE# PUJANA_BRCA1_PCC_NETWORK
22	4e-30	79 / 944	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
23	2e-28	34 / 138	GSE# DANG_MYC_TARGETS_UP
24	2e-28	90 / 1298	GSE# DODD_NASOPHARYNGEAL_CARCINOMA_DN
25	5e-28	68 / 747	GSE# PUJANA_CHEK2_PCC_NETWORK
26	2e-27	5 / 16	Cancr SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
27	2e-27	49 / 370	GSE# HSIAO_HOUSEKEEPING_GENES
28	3e-27	58 / 546	GSE# GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
29	2e-26	33 / 145	Glio WILLSCHER_GBM_Verhaak-CL_up (C
30	2e-26	23 / 52	GSE# ISHIDA_E2F_TARGETS
31	4e-26	27 / 85	GSE# MORI_LARGE_PRE_BII_LYMPHOCYTE_UP
32	4e-26	250 / 8123	Color TssF_Colon
33	2e-25	51 / 446	GSE# SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
34	2e-25	56 / 550	Cancr Lembcke_Normal vs Adenoma
35	5e-25	42 / 292	GSE# MUELLER_PLURINET
36	1e-24	27 / 95	GSE# CROONQUIST_IL6_DEPRIVATION_DN
37	1e-24	43 / 316	GSE# DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
38	1e-24	75 / 1036	GSE# DANG_BOUND_BY_MYC
39	2e-24	34 / 179	GSE# GRAHAM_CML_DIVIDING_VS_NORMAL QUIESCENT_UP
40	2e-24	28 / 108	BP SRP-dependent cotranslational protein targeting to membrane



K-Means Clusters

Spot Summary: R

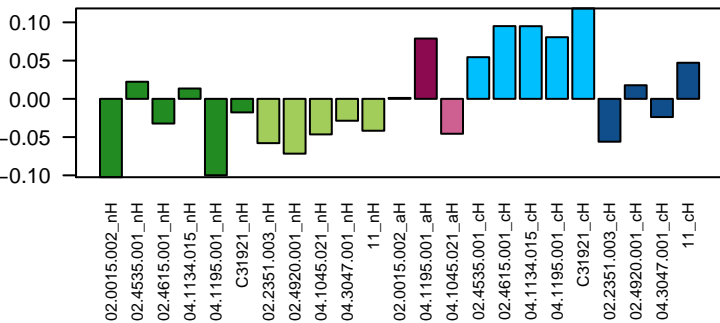
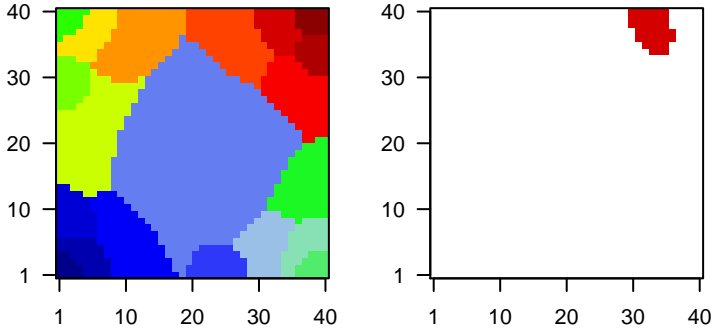
metagenes = 37
genes = 559

<r> metagenes = 0.93
<r> genes = 0.48
beta: r2= 0.08 / log p= -0.72

samples with spot = 1 (4.3 %)
MLH1_cancerHNPCC : 1 (20 %)

Overview Map

Spot

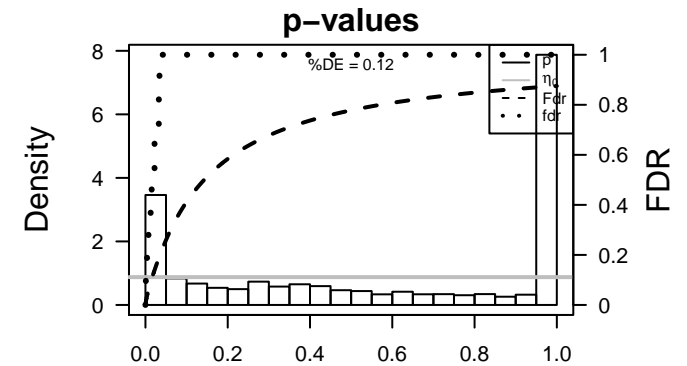


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG0000001	0.95	-0.08	0.28	RPS4Y1 ribosomal protein S4, Y-linked 1 [Source:HGNC Symbol;Acc:
2	ENSG0000001	0.75	-0.13	0.33	FAM83D family with sequence similarity 83, member D [Source:HGNC
3	ENSG0000001	0.71	-0.63	0.6	IFITM3 interferon induced transmembrane protein 3 [Source:HGNC S
4	ENSG0000001	0.68	-0.21	0.48	WARS tryptophanyl-tRNA synthetase [Source:HGNC Symbol;Acc:H
5	ENSG0000001	0.66	-0.21	0.25	NPIPB15 nuclear pore complex interacting protein family, member B15
6	ENSG0000001	0.63	-0.11	0.4	LRP4 low density lipoprotein receptor-related protein 4 [Source:HG
7	ENSG0000001	0.62	-0.43	0.61	IFITM2 interferon induced transmembrane protein 2 [Source:HGNC S
8	ENSG0000001	0.58	-0.04	0.39	TCN1 transcobalamin I (vitamin B12 binding protein, R binder family
9	ENSG0000001	0.57	-0.35	0.55	HSPA8 heat shock 70kDa protein 8 [Source:HGNC Symbol;Acc:HGN
10	ENSG0000000	0.54	-0.26	0.52	FXYS5 FXYS domain containing ion transport regulator 5 [Source:HK
11	ENSG0000001	0.54	-0.07	0.5	CST1 cystatin SN [Source:HGNC Symbol;Acc:HGNC:2473]
12	ENSG0000002	0.54	-0.06	0.48	L1TD1 LINE-1 type transposase domain containing 1 [Source:HGNC
13	ENSG0000001	0.53	-0.27	0.41	ETS2 v-ets avian erythroblastosis virus E26 oncogene homolog 2 [
14	ENSG0000000	0.53	-0.29	0.61	HSP90A heat shock protein 90kDa alpha (cytosolic), class A member
15	ENSG0000001	0.51	-0.34	0.59	ALDH1B1 aldehyde dehydrogenase 1 family, member B1 [Source:HGNC
16	ENSG0000002	0.48	-0.31	0.73	RPL36A-HNRNP2 readthrough [Source:HGNC Symbol;Acc:
17	ENSG0000001	0.48	-0.33	0.71	TUBA1B tubulin, alpha 1b [Source:HGNC Symbol;Acc:HGNC:18809]
18	ENSG0000001	0.45	-0.14	0.52	TGFBI transforming growth factor, beta-induced, 68kDa [Source:HG
19	ENSG0000001	0.43	-0.36	0.67	RPS16 ribosomal protein S16 [Source:HGNC Symbol;Acc:HGNC:10:
20	ENSG0000002	0.42	-0.1	0.56	FCGR3A Fc fragment of IgG, low affinity IIIa, receptor (CD16a) [Source

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	7e-85	207 / 1563	GSE/ PUJANA_BRCA1_PCC_NETWORK
2	2e-78	141 / 713	Colon Pentrack_CRC_TCGA_group.over_C_normal_DN
3	8e-77	128 / 582	GSE/ CAIRO_HEPATOBLASTOMA_CLASSES_UP
4	1e-73	139 / 747	GSE/ PUJANA_CHEK2_PCC_NETWORK
5	3e-64	354 / 5643	Lymp/ HOPP_Txn_transition
6	3e-56	144 / 1091	MF poly(A) RNA binding
7	3e-52	66 / 195	HM HALLMARK_MYC_TARGETS_V1
8	2e-51	123 / 859	GSE/ LEE_BMP2_TARGETS_DN
9	5e-49	147 / 1298	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_DN
10	7e-48	70 / 259	BP translation
11	4e-46	461 / 10475	Colon TssA_Colon
12	1e-45	447 / 9930	Colon Tx_Colon
13	1e-45	79 / 370	GSE/ HSIAO_HOUSEKEEPING_GENES
14	6e-45	82 / 412	GSE/ REACTOME_METABOLISM_OF_PROTEINS
15	7e-45	113 / 830	Colon Pentrack_CRC_TCGA_corr_R_normal_DN
16	3e-44	403 / 8358	Lymp HOPP_Active_promoter
17	9e-44	111 / 820	BP gene expression
18	2e-43	46 / 102	GSE/ REACTOME_3_UTR_MEDIATED_TRANSLATIONAL_REGULATION
19	3e-43	52 / 142	GSE/ REACTOME_TRANSLATION
20	4e-43	376 / 7491	Lymp HOPP_Txn_elongation
21	2e-42	54 / 162	MF structural constituent of ribosome
22	5e-42	51 / 142	BP translational initiation
23	2e-41	44 / 98	GSE/ REACTOME_INFLUENZA_VIRAL_RNA_TRANSCRIPTION_AND_REPLIC
24	2e-41	54 / 168	CC ribosome
25	9e-41	44 / 101	BP translational elongation
26	1e-40	45 / 108	BP SRP-dependent cotranslational protein targeting to membrane
27	2e-40	131 / 1228	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
28	7e-40	48 / 132	GSE/ REACTOME_INFLUENZA_LIFE_CYCLE
29	8e-40	44 / 105	GSE/ REACTOME_SRP_DEPENDENT_COTRANSLATIONAL_PROTEIN_TARG
30	1e-39	40 / 82	GSE/ REACTOME_PEPTIDE_CHAIN_ELONGATION
31	1e-39	41 / 88	BP translational termination
32	4e-39	40 / 84	GSE/ KEGG_RIBOSOME
33	1e-37	43 / 109	BP viral transcription
34	6e-37	90 / 633	BP cellular protein metabolic process
35	1e-36	132 / 1352	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
36	2e-36	65 / 317	Lymp TARTE_Plasmablast signature
37	9e-36	415 / 9390	Colon TxWk_Colon
38	6e-35	64 / 323	GSE/ PENG_GLUTAMINE_DEPRIVATION_DN
39	6e-35	40 / 102	GSE/ REACTOME_NONSENSE_MEDIATED_DECAY_ENHANCED_BY_THE_E
40	7e-35	99 / 813	GSE/ GRADE_COLON_CANCER_UP



Rank	p-value	#in/all
1	0.000000	414
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4	0.000000	414
5	0.000000	414
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97	0.000000	414
98	0.000000	414
99	0.000000	414
100	0.000000	414

GeneSet	p-value
translating genes meth UP	0.000000
HOXA10_aiding_genes meth UP	0.000000
TESCHENDORFF_age_hypermethylated	0.000000

Rank	p-value	#in/all
1	0.000000	177
2	0.000000	177
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99	0.000000	177
100	0.000000	177

GeneSet	p-value
translational elongation	0.000000
gene expression	0.000000
translational initiation	0.000000
SRP-dependent cotranslational protein targeting to membrane	0.000000
translational termination	0.000000
viral transcription	0.000000
cellular protein metabolic process	0.000000
nuclear-transcribed mRNA catabolic process, nonsense-mediated decay	0.000000
viral life cycle	0.000000
viral process	0.000000
mitotic cell cycle	0.000000
cytoplasmic translation	0.000000
protein folding	0.000000
tRNA aminoacylation for protein translation	0.000000
anaphase-promoting complex-dependent proteasomal ubiquitin-dependent	0.000000
G1/S transition of mitotic cell cycle	0.000000
de novo posttranslational protein folding	0.000000
DNA replication	0.000000

Rank	p-value	#in/all
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97	0.000000	297
98	0.000000	297
99	0.000000	297
100	0.000000	297

GeneSet	p-value
translating vs Adenoma	0.000000
MDM2_1 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53 overlap genes	0.000000
WDR53_1 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_2 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_3 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_4 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_5 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_6 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_7 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_8 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_9 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_10 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_11 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_12 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_13 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_14 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_15 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_16 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_17 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_18 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_19 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_20 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_21 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_22 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_23 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_24 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_25 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_26 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_27 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_28 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_29 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_30 BREAST_CANCER_GRADE_1_VS_3_UP	0.000000
WDR53_31 BREAST_CANCER_GRADE_1_VS_3	

K-Means Clusters

Spot Summary: S

metagenes = 35
genes = 434

<r> metagenes = 0.95

<r> genes = 0.61

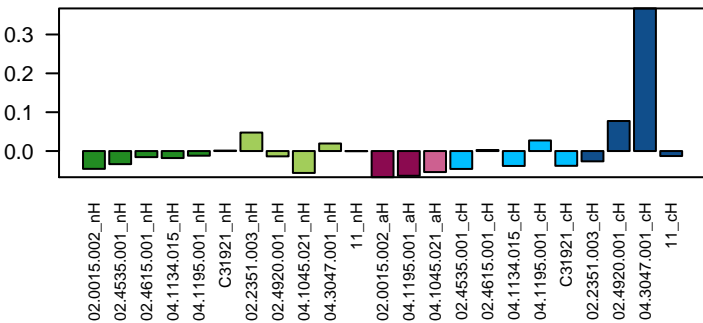
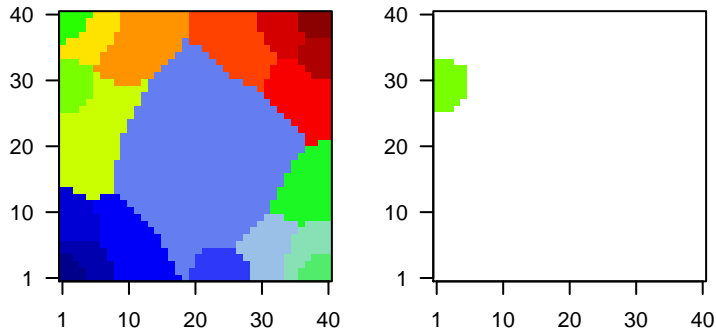
beta: r2= 0.11 / log p= -0.94

samples with spot = 1 (4.3 %)

other_cancerHNPCC : 1 (25 %)

Overview Map

Spot

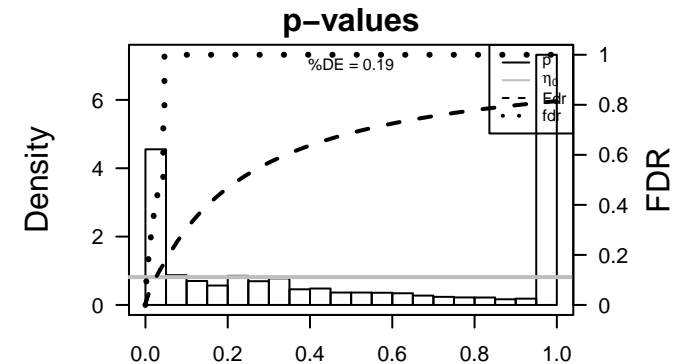


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	1.82	-0.23	0.89	FABP4 fatty acid binding protein 4, adipocyte [Source:HGNC Symbol]
2	ENSG0000002	1.31	-0.26	0.91	GPX3 glutathione peroxidase 3 [Source:HGNC Symbol;Acc:HGNC:10513]
3	ENSG0000002	1.17	-0.14	0.29	HBB hemoglobin, beta [Source:HGNC Symbol;Acc:HGNC:4827]
4	ENSG0000001	1.11	-0.22	0.92	SFRP2 secreted frizzled-related protein 2 [Source:HGNC Symbol;Acc:HGNC:10513]
5	ENSG0000001	1.02	-0.41	0.87	CTGF connective tissue growth factor [Source:HGNC Symbol;Acc:HGNC:10513]
6	ENSG0000001	1.01	-0.27	0.77	BGN biglycan [Source:HGNC Symbol;Acc:HGNC:1044]
7	ENSG0000001	1	-0.16	0.93	ADAMTS1 metalloproteinase with thrombospondin type 1 motif, 1 [Source:HGNC Symbol;Acc:HGNC:10513]
8	ENSG0000001	0.98	-0.25	0.63	SAA1 serum amyloid A1 [Source:HGNC Symbol;Acc:HGNC:10513]
9	ENSG0000001	0.95	-0.62	0.74	DUSP1 dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:10513]
10	ENSG0000001	0.9	-0.24	0.82	FOSB FBJ murine osteosarcoma viral oncogene homolog B [Source:HGNC Symbol;Acc:HGNC:10513]
11	ENSG0000001	0.89	-0.09	0.85	ADIPOQ adiponectin, C1Q and collagen domain containing [Source:HGNC Symbol;Acc:HGNC:10513]
12	ENSG0000001	0.87	-0.18	0.95	C11orf96 chromosome 11 open reading frame 96 [Source:HGNC Symbol;Acc:HGNC:10513]
13	ENSG0000001	0.86	-0.22	0.8	C10orf10 chromosome 10 open reading frame 10 [Source:HGNC Symbol;Acc:HGNC:10513]
14	ENSG0000001	0.86	-0.19	0.82	G0S2 G0/G1 switch 2 [Source:HGNC Symbol;Acc:HGNC:30229]
15	ENSG0000001	0.84	-0.09	0.95	RBP7 retinol binding protein 7, cellular [Source:HGNC Symbol;Acc:HGNC:10513]
16	ENSG0000001	0.83	-0.15	0.88	SERPINE1 serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1) [Source:HGNC Symbol;Acc:HGNC:10513]
17	ENSG0000001	0.83	-0.21	0.8	ADH1B alcohol dehydrogenase 1B (class I), beta polypeptide [Source:HGNC Symbol;Acc:HGNC:10513]
18	ENSG0000002	0.82	-0.11	0.92	MUSTN1 musculoskeletal, embryonic nuclear protein 1 [Source:HGNC Symbol;Acc:HGNC:10513]
19	ENSG0000002	0.81	-0.2	0.83	ACKR1 atypical chemokine receptor 1 (Duffy blood group) [Source:HGNC Symbol;Acc:HGNC:10513]
20	ENSG0000001	0.81	-0.07	0.91	PLIN1 perilipin 1 [Source:HGNC Symbol;Acc:HGNC:9076]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-48	70 / 326	GSE/ SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
2	2e-36	106 / 1176	CC extracellular space
3	2e-36	62 / 368	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_2B
4	2e-34	70 / 522	GSE/ SMID_BREAST_CANCER_LUMINAL_B_DN
5	2e-34	73 / 574	Cancer Lembecke_Coloncic Inflammation
6	3e-34	47 / 202	CC extracellular matrix
7	4e-34	47 / 204	GSE/ BOQUEST_STEM_CELL_DN
8	2e-32	61 / 413	GSE/ BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP
9	3e-32	77 / 692	GSE/ WONG_ADULT_TISSUE_STEM_MODULE
10	4e-31	60 / 418	GSE/ SWEET_LUNG_CANCER_KRAS_DN
11	2e-30	87 / 945	GSE/ NABA_MATRISOME
12	4e-30	43 / 198	HM HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
13	3e-29	27 / 59	Lymp LENZ_Stromal signature 2
14	5e-29	47 / 261	Lymp LENZ_Stromal signature 1
15	1e-28	103 / 1374	CC extracellular region
16	9e-28	43 / 224	BP angiogenesis
17	2e-27	40 / 192	HM HALLMARK_TNFA_SIGNALING_VIA_NFKB
18	5e-27	50 / 332	Color Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
19	1e-26	28 / 78	GSE/ NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_DN
20	1e-26	56 / 436	GSE/ SMID_BREAST_CANCER_NORMAL_LIKE_UP
21	3e-26	58 / 478	GSE/ LIM_MAMMARY_STEM_CELL_UP
22	8e-25	38 / 196	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
23	2e-24	46 / 314	Lymp Hopp_June14_MMML937_tumors+controls_group.overexpression_E_GC-DN
24	2e-24	46 / 315	Lymp WIRTH_lymphoma937_spot E
25	4e-24	58 / 525	GSE/ WEST_ADRENOCORTICAL_TUMOR_DN
26	7e-24	41 / 248	GSE/ ONDER_CDH1_TARGETS_2_UP
27	7e-24	34 / 158	GSE/ VART_KSHV_INFECTION_ANGIOGENIC_MARKERS_UP
28	8e-24	41 / 249	GSE/ BOQUEST_STEM_CELL_UP
29	9e-23	26 / 85	GSE/ SANA_TNF_SIGNALING_DN
30	2e-22	23 / 62	GSE/ ANASTASSIOU_CANCER_MESENCHYMAL_TRANSITION_SIGNATURE
31	1e-21	68 / 804	GSE/ CUI_TCF21_TARGETS_2_DN
32	4e-21	39 / 261	GSE/ NABA_CORE_MATRISOME
33	6e-21	84 / 1210	Brain Fetal_TssP
34	1e-20	26 / 101	GSE/ CHEN_LVAD_SUPPORT_OF_FAILING_HEART_UP
35	3e-20	22 / 67	GSE/ TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_NORMAL
36	6e-20	46 / 401	GSE/ REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
37	1e-19	199 / 5039	Lymp HOPP_Repressed
38	1e-19	145 / 3109	Color TssP_Colon
39	2e-19	140 / 2956	Brain Fetal_TssA
40	2e-19	29 / 148	Color Marisa_CRC-cluster-a



K-Means Clusters

Spot Summary: T

metagenes = 143
genes = 1421

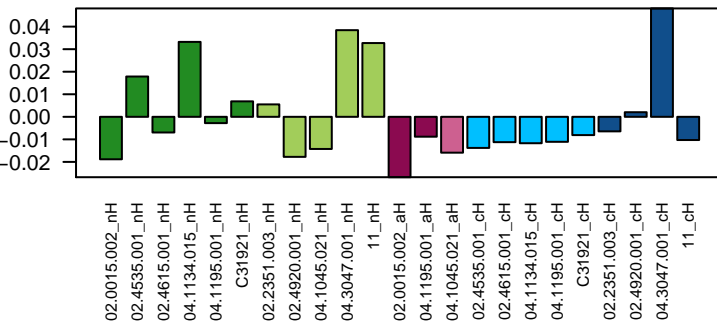
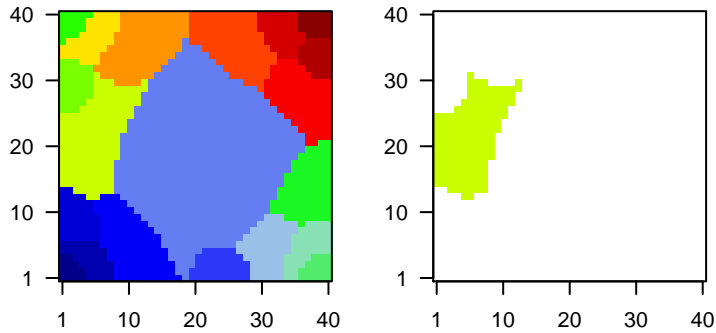
<r> metagenes = 0.69

beta: r2= 0.01 / log p= -0.22

samples with spot = 0 (0 %)

Overview Map

Spot

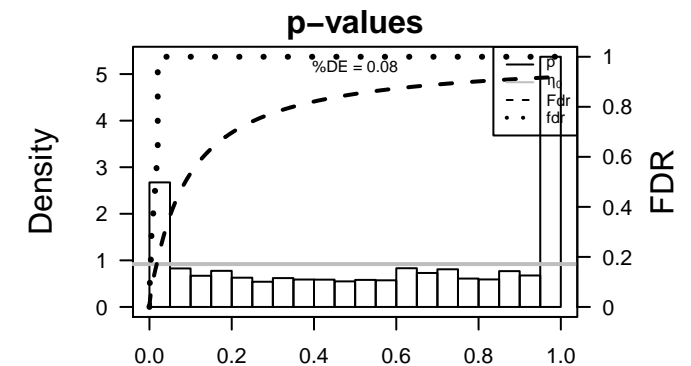


Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG000000	0.5	-0.11	0.24	RAB27A RAB27A, member RAS oncogene family [Source:HGNC Sym
2	ENSG000000	0.33	-0.04	0.27	SELE selectin E [Source:HGNC Symbol;Acc:HGNC:10718]
3	ENSG000002	0.3	-0.11	0.81	RGL2 ral guanine nucleotide dissociation stimulator-like 2 [Source:HGNC
4	ENSG000001	0.27	-0.1	0.14	PARP9 poly (ADP-ribose) polymerase family, member 9 [Source:HGNC
5	ENSG000001	0.25	-0.13	0.52	TRAFD1 TRAF-type zinc finger domain containing 1 [Source:HGNC S
6	ENSG000001	0.25	-0.14	0.45	FAM193B Family with sequence similarity 193, member B [Source:HGNC
7	ENSG000001	0.24	-0.09	0.51	FOLR2 folate receptor 2 (fetal) [Source:HGNC Symbol;Acc:HGNC:37
8	ENSG000001	0.24	-0.1	0.5	RALGDSral guanine nucleotide dissociation stimulator [Source:HGNC
9	ENSG000001	0.23	-0.09	0.83	PPP1R2 protein phosphatase 1, regulatory (inhibitor) subunit 2 [Source:HGNC
10	ENSG000001	0.23	-0.15	0.5	RAP1B RAP1B, member of RAS oncogene family [Source:HGNC Syr
11	ENSG000001	0.23	-0.11	0.43	MAN2C1 mannosidase, alpha, class 2C, member 1 [Source:HGNC Syr
12	ENSG000001	0.22	-0.05	0.41	ANO1 anoctamin 1, calcium activated chloride channel [Source:HGNC
13	ENSG000001	0.22	-0.09	0.76	ARID5B AT rich interactive domain 5B (MRF1-like) [Source:HGNC Sy
14	ENSG000001	0.22	-0.08	0.53	GPX7 glutathione peroxidase 7 [Source:HGNC Symbol;Acc:HGNC:13658]
15	ENSG000000	0.22	-0.06	0.58	NTN4 netrin 4 [Source:HGNC Symbol;Acc:HGNC:13658]
16	ENSG000001	0.21	-0.07	0.75	TMEM204 transmembrane protein 204 [Source:HGNC Symbol;Acc:HGNC
17	ENSG000002	0.21	-0.05	0.68	
18	ENSG000001	0.21	-0.11	0.75	PTEN phosphatase and tensin homolog [Source:HGNC Symbol;Acc
19	ENSG000001	0.21	-0.07	0.47	PCGF3 polycomb group ring finger 3 [Source:HGNC Symbol;Acc:HG
20	ENSG000000	0.21	-0.03	0.46	SUSD2 sushi domain containing 2 [Source:HGNC Symbol;Acc:HGNC

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	6e-89	815 / 6320	Brain Overlap_fetal_midbrain_HetRpts
2	3e-64	1048 / 10239	Brain Overlap_fetal_midbrain_ReprPC
3	2e-60	1042 / 10278	Brain Overlap_fetal_midbrain_ReprPCWk
4	5e-52	960 / 9390	Colon TxWk_Colon
5	9e-51	1128 / 11968	Colon TssWk_Colon
6	8e-49	812 / 7491	Lymph HOPP_Txn_elongation
7	4e-48	955 / 9470	Colon Quies3_Colon
8	1e-44	1037 / 10800	Brain Overlap_fetal_midbrain_Quies
9	1e-43	974 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
10	5e-43	973 / 9930	Colon Tx_Colon
11	4e-37	842 / 8358	Lymph HOPP_Active_promoter
12	1e-35	170 / 834	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
13	5e-31	611 / 5643	Lymph HOPP_Txn_transition
14	4e-28	963 / 10475	Colon TssA_Colon
15	1e-26	107 / 471	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
16	1e-24	251 / 1807	BP transcription, DNA-templated
17	3e-24	780 / 8147	Lymph HOPP_Weak_promoter
18	7e-21	109 / 568	GSE/ HAMAI_APOPTOSIS_VIA_TRAIL_UP
19	5e-19	716 / 7592	Lymph HOPP_Strong_enhancer
20	6e-19	623 / 6389	Lymph HOPP_Weak_txn
21	6e-18	85 / 420	GSE/ SHEN_SMARCA2_TARGETS_UP
22	3e-17	117 / 705	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
23	1e-16	65 / 286	GSE/ GABRIELY_MIR21_TARGETS
24	9e-16	131 / 866	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_UP
25	1e-15	124 / 804	GSE/ CUI_TCF21_TARGETS_2_DN
26	2e-15	162 / 1178	Colon ZNF_Colon
27	4e-15	89 / 500	Lymph WIRTH_lymphoma937_spot J
28	5e-15	923 / 10693	MF protein binding
29	5e-15	121 / 791	GSE/ BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
30	1e-14	483 / 4879	Colon Quies1_Colon
31	1e-14	70 / 352	miRN hsa-miR-142-5p
32	3e-14	440 / 4379	Colon TssD1_Colon
33	3e-14	64 / 311	GSE/ DAZARD_RESPONSE_TO_UV_NHEK_DN
34	3e-14	85 / 484	Lymph Hopp_June14_MMML937_tumors+controls_group.overexpression_J_GC-E
35	2e-13	71 / 381	miRN hsa-miR-144
36	3e-13	93 / 573	miRN hsa-miR-93
37	6e-13	88 / 536	miRN hsa-miR-106b
38	6e-13	280 / 2554	CC nucleoplasm
39	7e-13	213 / 1803	MF DNA binding
40	7e-13	289 / 2658	Lymph HOPP_Repetitive



Rank	p-value	#in/all	Geneset
1	1.0E-123	107	epigenetic_remarking_genes_meth_UP
2	1.0E-123	107	epigenetic_remarking_genes_meth_DOWN
3	1.0E-123	107	TESCHENDORFF_age_hypermethylated
4	1.0E-123	107	
5	1.0E-123	107	
6	1.0E-123	107	
7	1.0E-123	107	
8	1.0E-123	107	
9	1.0E-123	107	
10	1.0E-123	107	
11	1.0E-123	107	
12	1.0E-123	107	
13	1.0E-123	107	
14	1.0E-123	107	
15	1.0E-123	107	
16	1.0E-123	107	
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44	1.0E-123	107	
45	1.0E-123	107	
46	1.0E-123	107	
47	1.0E-123	107	
48	1.0E-123	107	
49	1.0E-123	107	
50	1.0E-123	107	

Rank	p-value	#in/all	Geneset
1	1.0E-138	16	PanCan_JAK-STAT_geneset_nanostring
2	1.0E-140	16	PanCan_Driver_geneset_nanostring
3	1.0E-140	16	PanCan_JAK_geneset_nanostring
4	1.0E-140	16	PanCan_HK_geneset_nanostring
5	1.0E-140	16	PanCan_KAS_geneset_nanostring
6	1.0E-140	16	PanCan_Wnt_geneset_nanostring
7	1.0E-140	16	Embckie_Colon_Inflammation
8	1.0E-140	16	EMBL_geneset_nanostring
9	1.0E-140	16	GEMNES_modul14
10	1.0E-140	16	SITVCan_KC-Saobn_geneset_nanostring
11	1.0E-140	16	LIU_PROSTATE_CANCER_DN
12	1.0E-140	16	Southern_China_Lung_Cancer_geneset_nanostring
13	1.0E-140	16	Geneset_Cancer_Grade_1_VS_3_DN
14	1.0E-140	16	EMNES_MAR013
15	1.0E-140	16	WANG_ER_DN
16	1.0E-140	16	BRCA2_geneset_nanostring
17	1.0E-140	16	SPANG_BCL6-index2
18	1.0E-140	16	
19	1.0E-140	16	
20	1.0E-140	16	
21	1.0E-140	16	
22	1.0E-140	16	
23	1.0E-140	16	
24	1.0E-140	16	
25	1.0E-140	16	
26	1.0E-140	16	
27	1.0E-140	16	
28	1.0E-140	16	
29	1.0E-140	16	
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35	1.0E-140	16	
36	1.0E-140	16	
37	1.0E-140	16	
38	1.0E-140	16	
39	1.0E-140	16	
40	1.0E-140	16	
41	1.0E-140	16	
42	1.0E-140	16	
43	1.0E-140	16	
44	1.0E-140	16	
45	1.0E-140	16	
46	1.0E-140	16	
47	1.0E-140	16	
48	1.0E-140	16	
49	1.0E-140	16	
50	1.0E-140	16	

Rank	p-value	#in/all	Geneset
1	1.0E-136	3	ISSWk_Colon
2	1.0E-136	3	Quiesk_Colon
3	1.0E-136	3	LX_Colon
4	1.0E-136	3	RNA_Colon
5	1.0E-136	3	ZNF_Colon
6	1.0E-136	3	ESCC_Colon
7	1.0E-136	3	EMHWK2_Colon
8	1.0E-136	3	HighLow_Colon
9	1.0E-136	3	Vilar_hypermethylated-in-CRC
10	1.0E-136	3	Hewitt_MMIR-secondary-mutations_Signal_transduction
11	1.0E-136	3	tet_Colon
12	1.0E-136	3	Vilar_CRC-cluster-d
13	1.0E-136	3	EMHWK1_Colon
14	1.0E-136	3	Vilar_mutated-in-CRC-CamP
15	1.0E-136	3	Jewish_in-CRC-secondary-mutations_DNA-repair
16	1.0E-136	3	HepKpts_Colon
17	1.0E-136	3	Mansa_CRC-cluster-c
18	1.0E-136	3	
19	1.0E-136	3	
20	1.0E-136	3	
21	1.0E-136	3	
22	1.0E-136	3	
23	1.0E-136	3	
24	1.0E-136	3	
25	1.0E-136	3	
26	1.0E-136	3	
27	1.0E-136	3	
28	1.0E-136	3	
29	1.0E-136	3	
30	1.0E-136	3	
31	1.0E-136	3	
32	1.0E-136	3	
33	1.0E-136	3	
34	1.0E-136	3	
35	1.0E-136	3	
36	1.0E-136	3	
37	1.0E-136	3	
38	1.0E-136	3	
39	1.0E-136	3	
40	1.0E-136	3	
41	1.0E-136	3	
42	1.0E-136	3	
43	1.0E-136	3	
44	1.0E-136	3	
45	1.0E-136	3	
46	1.0E-136	3	
47	1.0E-136	3	
48	1.0E-136	3	
49	1.0E-136	3	
50	1.0E-136	3	

Rank	p-value	#in/all	Geneset
1	1.0E-148	108	DAKOTA_COTISSUS_RESPONSE_VIA_ERCC3_DN
2	1.0E-148	108	DAKOTA_COTISSUS_RESPONSE_RAIL_UP
3	1.0E-148	108	SIGNIF_SMARCA4_TARGETS_UP
4	1.0E-148	108	CARDIAC_MITRAL_VALVE_TARGETS_UP
5	1.0E-148	108	KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
6	1.0E-148	108	KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_UP
7	1.0E-148	108	BOULARTI_PHOTODYNAMIC_THERAPY_STRESS_UP
8	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_DN
9	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
10	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
11	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
12	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
13	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
14	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
15	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
16	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
17	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
18	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
19	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
20	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
21	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
22	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
23	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
24	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
25	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
26	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
27	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
28	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
29	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
30	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
31	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
32	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
33	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
34	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
35	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
36	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
37	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
38	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
39	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
40	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
41	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
42	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
43	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
44	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
45	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
46	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
47	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
48	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
49	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP
50	1.0E-148	108	OSMAN_BLEBBISTATIN_CANCER_THERAPY_UP

Rank	p-value	#in/all	Geneset
1	1.0E-148	2	HOPE_Active_promoter
2	1.0E-148	2	HOPE_Vpn_transition
3	1.0E-148	2	HOPE_Weak_promoter
4	1.0E-148	2	HOPE_Strong_promoter
5	1.0E-148	2	HOPE_Strong_enhancer
6	1.0E-148	2	WIRTH_lymphoma937_spot_J
7	1.0E-148	2	HOPE_tune14_MMML937_tumors+controls_group.overexpression_J_GC-B-c
8	1.0E-148	2	WIRTH_lymphoma937_spot_H
9	1.0E-148	2	HOPE_Weak_promoter
10	1.0E-148	2	HOPE_Strong_promoter
11	1.0E-148	2	WIRTH_lymphoma937_spot_H
12	1.0E-148	2	SPANG_BCR_DN
13	1.0E-148	2	WIRTH_lymphoma937_spot_I
14	1.0E-148	2	HOPE_tune14_MMML937_tumors+controls_group.overexpression_I_MM_GC
15	1.0E-148	2	SPANG_DLFCI_mutated
16	1.0E-148	2	ROSOLOWSKI_Splen_DN
17	1.0E-148	2	ROSOLOWSKI_Splen_total
18	1.0E-148	2	
19	1.0E-148	2	
20	1.0E-148	2	
21	1.0E-148	2	
22	1.0E-148	2	
23	1.0E-148	2	
24	1.0E-148	2	
25	1.0E-148	2	
26	1.0E-148	2	
27	1.0E-148	2	
28	1.0E-148	2	
29	1.0E-148	2	
30	1.0E-148	2	
31	1.0E-148	2	
32	1.0E-148	2	
33	1.0E-148	2	
34	1.0E-148	2	
35	1.0E-148	2	
36	1.0E-148	2	
37	1.0E-148	2	
38	1.0E-148	2	
39	1.0E-148	2	
40	1.0E-148	2	
41	1.0E-148	2	
42	1.0E-148	2	
43	1.0E-148	2	
44	1.0E-148	2	
45	1.0E-148	2	
46	1.0E-148	2	
47	1.0E-148	2	
48	1.0E-148	2	
49	1.0E-148	2	
50	1.0E-148	2	

Rank	p-value	#in/all	Geneset
1	1.0E-154	169	CCNE1_P13k_DN
2	1.0E-154	169	CCNE1_P13k_DN
3	1.0E-154	169	CCNE1_P13k_DN
4	1.0E-154	169	CCNE1_P13k_DN
5	1.0E-154	169	CCNE1_P13k_DN
6	1.0E-154	169	CCNE1_P13k_DN
7	1.0E-154	169	CCNE1_P13k_DN
8	1.0E-154	169	CCNE1_P13k_DN
9	1.0E-154	169	CCNE1_P13k_DN
10	1.0E-154	169	CCNE1_P13k_DN
11	1.0E-154	169	CCNE1_P13k_DN
12	1.0E-154	169	CCNE1_P13k_DN
13	1.0E-154	169	CCNE1_P13k_DN
14	1.0E-154	169	CCNE1_P13k_DN
15	1.0E-154	169	CCNE1_P13k_DN
16	1.0E-154	169	CCNE1_P13k_DN
17	1.0E-154	169	CCNE1_P13k_DN
18	1.0E-154	169	CCNE1_P13k_DN
19	1.0E-154	169	CCNE1_P13k_DN
20	1.0E-154	169	CCNE1_P13k_DN
21	1.0E-154	169	CCNE1_P13k_DN
22	1.0E-154	169	CCNE1_P13k_DN
23	1.0E-154	169	CCNE1_P13k_DN
24	1.0E-154	169	CCNE1_P13k_DN
25	1.0E-154	169	CCNE1_P13k_DN
26	1.0E-154	169	CCNE1_P13k_DN
27	1.0E-154	169	CCNE1_P13k_DN
28	1.0E-154	169	CCNE1_P13k_DN
29	1.0E-154	169	CCNE1_P13k_DN
30	1.0E-154	169	CCNE1_P13k_DN
31	1.0E-154	169	CCNE1_P13k_DN
32	1.0E-154	169	CCNE1_P13k_DN
33	1.0E-154	169	CCNE1_P13k_DN
34	1.0E-154	169	CCNE1_P13k_DN
35	1.0E-154		