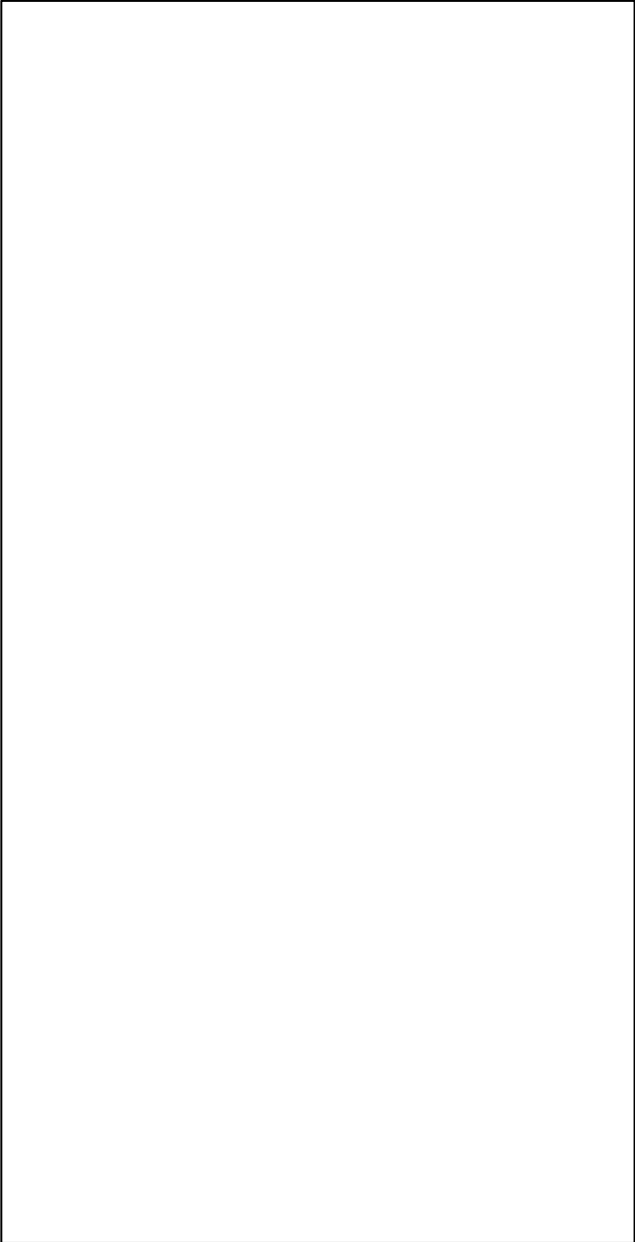
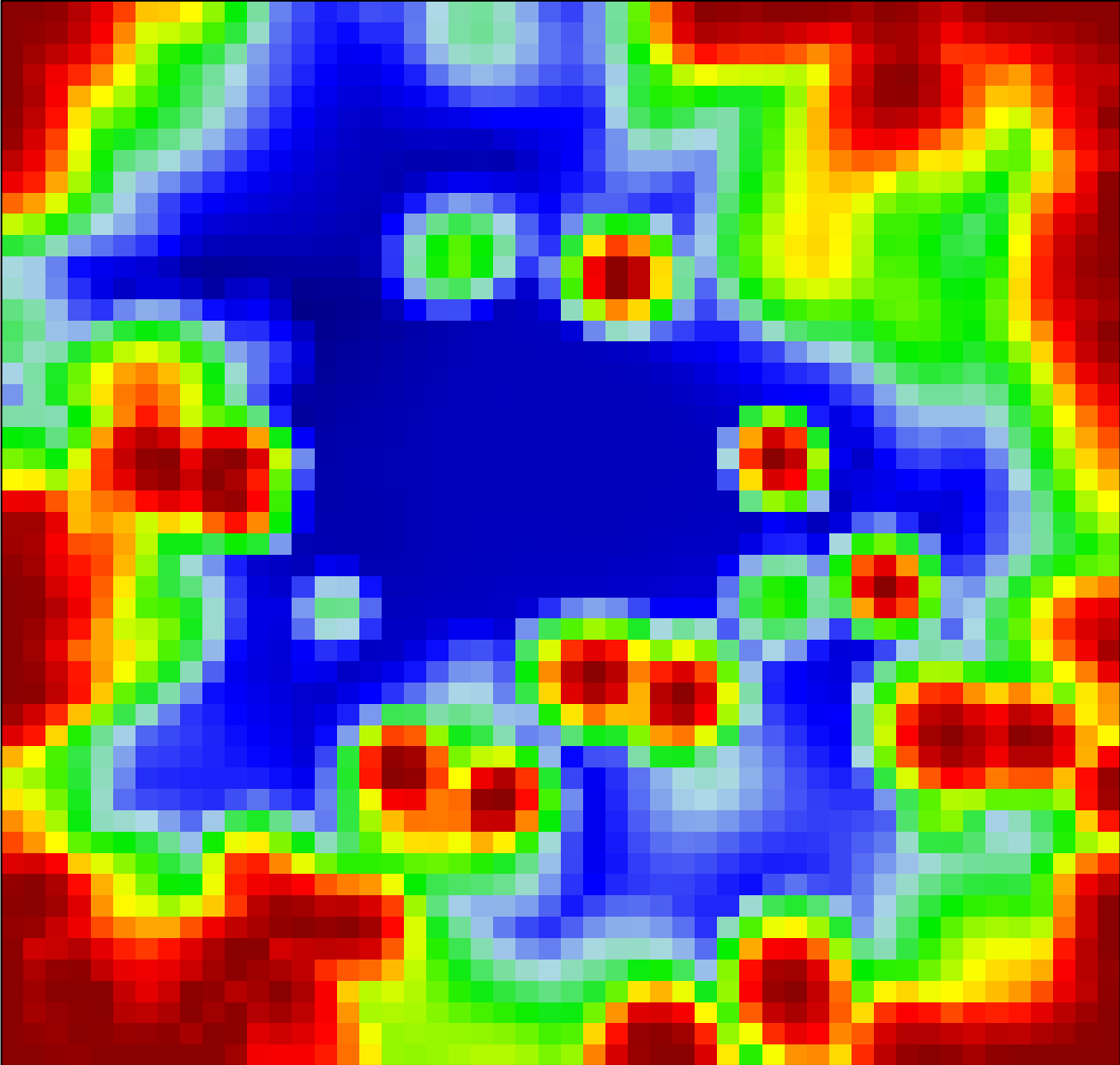


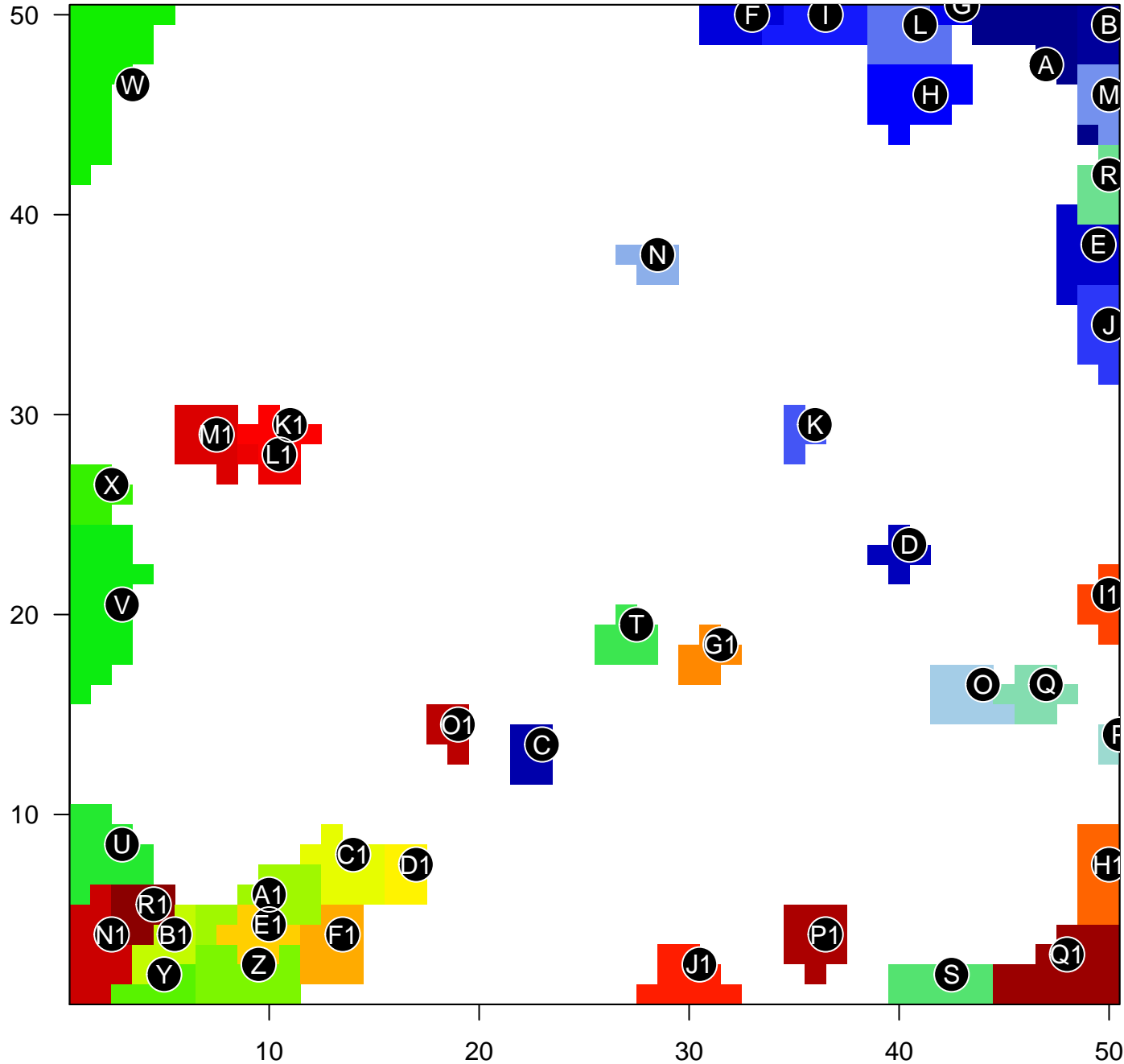
Overexpression Spots

landscape



Overexpression Spots

annotation



- A HUMMEL_BURKITTIS_LYMPHOMA_UP
Sha_BL UP
- B PUJANA_BRCA2_PCC_NETWORK
Gerber_wt/wt_melanoma-cells-SpotA
- C WIRTH_Mucosa
JAEGER_METASTASIS_DN
- D Bcells peripheral blood_15_Quies
Bcells peripheral blood_14_ReprPCWk
- E Bcells peripheral blood_4_Tx
Tcells peripheral blood_4_Tx
- F monocytes peripheral blood_2_TssAFInk
Bcells peripheral blood_2_TssAFInk
- G Sha_BL UP
SPANG_BCR UP
- H KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
MANALO_HYPOXIA_DN
- I Gerber_wt/wt_melanoma-cells-SpotA
WILLSCHER_GBM_Verhaak-CL_up (C)
- J Chaussabel_3,4_Protein phosphatases
HSC_4_Tx
- K HSIAO_LIVER_SPECIFIC_GENES
WIRTH_Liver
- L Lembcke_Normal vs Adenoma
KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
- M Tregulatory cells peripheral blood_4_Tx
4_Tx_ESC_Mesoderm
- N BROWNE_HCMV_INFECTION_20HR_DN
voltage-gated sodium channel complex
- O Bcells peripheral blood_12_EnhBiv
natural killer cells peripheral blood_13_ReprPC
- P nucleosome
REACTOME_RNA_POL_I_PROMOTER_OPENING
- Q 8_EnhP_Fibroblasts
10_ReprPC_Fibroblasts
- R HOLLMANN_APOPTOSIS_VIA_CD40_UP
SPANG_CD40 6hrs UP
- S MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP
8_EnhP_Fibroblasts
- T Tcells peripheral blood_13_ReprPC
Tregulatory cells peripheral blood_13_ReprPC
- U SPANG_BCL6-index2
Victoria_Light zone signature
- V Aukema_BCL2_DN_BCL6_UP
SPANG_BCL6-index2
- W WILLSCHER_GBM_Verhaak-PNwt & CL_up
Bcells peripheral blood_4_Tx

Overexpression Spots

Spot Summary: A

metagenes = 14
genes = 239

<r> metagenes = 0.95

<r> genes = 0.33

beta: r2= 17.12 / log p= -Inf

samples with spot = 50 (22.6 %)

mBL : 42 (95.5 %)

intermediate : 8 (16.7 %)

Spot Genelist

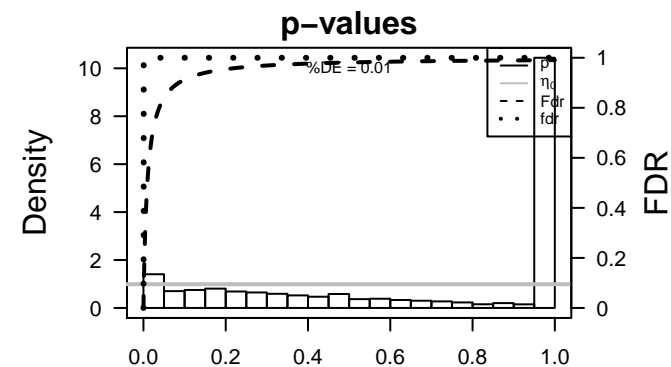
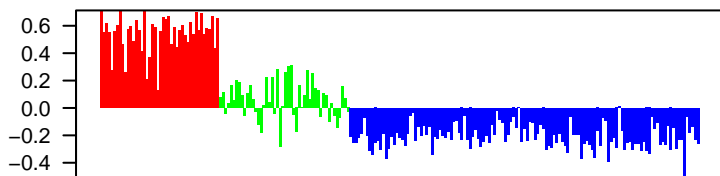
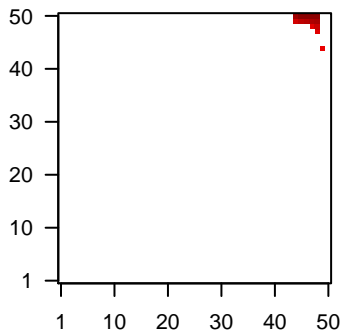
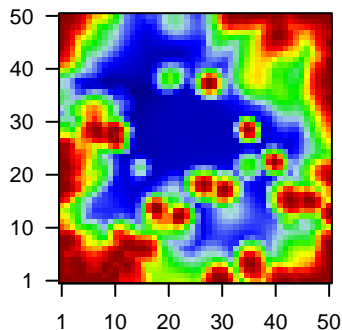
Rank	ID	max e	r	min e	Description
					Symbol
1	206660_at	2.83	-0.99	0.51	IGLL1 immunoglobulin lambda like polypeptide 1 [Source:HGNC Sym]
2	221349_at	2.76	-0.89	0.71	VPREB1 V-set pre-B cell surrogate light chain 1 [Source:HGNC Synt
3	206413_s_at	2.76	-1.22	0.37	TCL1B T cell leukemia/lymphoma 1B [Source:HGNC Symbol;Acc:HC
4	204914_s_at	2.24	-0.89	0.67	SOX11 SRY-box 11 [Source:HGNC Symbol;Acc:HGNC:11191]
5	213920_at	2.19	-1.02	0.53	CUX2 cut like homeobox 2 [Source:HGNC Symbol;Acc:HGNC:1934
6	213674_x_at	2.16	-1.9	0.35	immunoglobulin heavy constant delta [Source:HGNC Symbol
7	38037_at	2.16	-1.11	0.6	HBEGF heparin binding EGF like growth factor [Source:HGNC Symb
8	204915_s_at	2.16	-0.86	0.62	SOX11 SRY-box 11 [Source:HGNC Symbol;Acc:HGNC:11191]
9	209590_at	2.09	-1.32	0.8	BMP7 bone morphogenetic protein 7 [Source:HGNC Symbol;Acc:H
10	210244_at	2.07	-1.33	0.38	CAMP cathelicidin antimicrobial peptide [Source:HGNC Symbol;Acc:
11	203821_at	2.07	-1.19	0.57	HBEGF heparin binding EGF like growth factor [Source:HGNC Symb
12	219737_s_at	2.07	-1.48	0.69	PCDH9 protocadherin 9 [Source:HGNC Symbol;Acc:HGNC:8661]
13	204913_s_at	2.07	-1.11	0.66	SOX11 SRY-box 11 [Source:HGNC Symbol;Acc:HGNC:11191]
14	205122_at	2	-1	0.6	TMEFF1 transmembrane protein with EGF like and two follistatin like d
15	209469_at	1.96	-1.84	0.43	GPM6A glycoprotein M6A [Source:HGNC Symbol;Acc:HGNC:4460]
16	203435_s_at	1.95	-1.72	0.72	MME membrane metalloendopeptidase [Source:HGNC Symbol;Acc:
17	213280_at	1.95	-0.83	0.57	RAP1A RAP1 GTPase activating protein 2 [Source:HGNC Symbol;Ac
18	209570_s_at	1.94	-0.79	0.53	NSG1 neuronal vesicle trafficking associated 1 [Source:HGNC Syml
19	217276_x_at	1.91	-1.16	0.57	serine hydrolase-like (pseudogene) [Source:HGNC Symbol;#
20	213901_x_at	1.87	-1.27	0.7	RBFOX2 RNA binding fox-1 homolog 2 [Source:HGNC Symbol;Acc:HC

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-49	31 / 42	GSE/ HUMMEL_BURKITTs_LYMPHOMA_UP
2	6e-29	28 / 99	Lymp/ Sha_BL_UP
3	6e-24	31 / 192	Lymp/ Victora_Dark zone signature
4	8e-23	13 / 15	Lymp/ BENTINK_mBL_UP
5	4e-19	31 / 275	GSE/ HADDAD_B_LYMPHOCYTE_PROGENITOR
6	2e-17	10 / 12	Canci/ BENTINK_e2f3.2
7	9e-17	51 / 955	Lymp/ SPANG_BCR_UP
8	4e-12	23 / 263	Lymp/ SPANG_CD40 6hrs UP
9	8e-12	6 / 6	Lymp/ MASCOUE_mBL_UP
10	9e-12	17 / 135	Lymp/ DAVE_BL-vs-DLBCL
11	6e-11	12 / 61	GSE/ BASSO_CD40_SIGNALING_DN
12	5e-09	18 / 227	Lymp/ SPANG_IL21 UP
13	7e-09	6 / 12	Canci/ BENTINK_ras.1
14	2e-08	29 / 615	GSE/ BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_DN
15	1e-07	15 / 195	GSE/ HOLLMANN_APOPTOSIS_VIA_CD40_UP
16	2e-07	9 / 60	GSE/ PYEON_HPV_POSITIVE_TUMORS_UP
17	4e-07	16 / 240	GSE/ MITSIADES_RESPONSE_TO_APLIDIN_DN
18	6e-07	29 / 728	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
19	2e-06	26 / 651	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
20	3e-06	8 / 61	GSE/ BILBAN_B_CLL_LPL_UP
21	4e-06	12 / 160	GSE/ PUJANA_XPRSS_INT_NETWORK
22	5e-06	4 / 9	Lymp/ DAVE_BL_UP
23	5e-06	19 / 400	GSE/ PUJANA_BRCA2_PCC_NETWORK
24	6e-06	33 / 1001	Color/ LaPointe_mucosa-position_kmeans_H_cecum colon_ascending colon_UP
25	8e-06	17 / 337	GSE/ DEURIG_T_CELL_PROLYMPHOCYTIC_LEUKEMIA_UP
26	9e-06	12 / 176	GSE/ BILD_E2F3_ONCOGENIC_SIGNATURE
27	2e-05	7 / 57	Pneui/ Burnham_day1_vs_5_UP
28	2e-05	96 / 4701	CC/ cytoplasm
29	2e-05	19 / 444	GSE/ MARTINEZ_RB1_AND_TP53_TARGETS_DN
30	3e-05	16 / 335	GSE/ BENPORATH_ES_1
31	3e-05	11 / 169	GSE/ YAMAZAKI_TCEB3_TARGETS_DN
32	3e-05	16 / 340	GSE/ RHEIN_ALL_GLUCOCORTICOID_THERAPY_DN
33	4e-05	8 / 87	miRN/ hsa-miR-449b
34	4e-05	4 / 14	Canci/ BENTINK_src.10
35	5e-05	25 / 726	GSE/ PUJANA_CHEK2_PCC_NETWORK
36	6e-05	41 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
37	7e-05	11 / 183	GSE/ PROVENZANI_METASTASIS_UP
38	7e-05	8 / 96	Lymp/ SPANG_LPS 6hrs UP
39	9e-05	4 / 17	Lymp/ Aukema_BCL2 UP_BCL DN
40	1e-04	3 / 7	GSE/ PHESSSE_TARGETS_OF_APC_AND_MBD2_DN

Overview Map

Spot



Rank	p-value	#in/all	Geneset
1	0.4	2 / 92	HORVATH_aging_genes_meth_DOWN
2	0.5	2 / 107	HORVATH_aging_genes_meth_UP
3	0.5	1 / 47	TESCHENDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Rank	p-value	#in/all	Geneset
1	2e-05	96 / 4701	cytoplasm
2	9e-04	55 / 2541	nucleoplasm
3	1e-03	87 / 4579	nucleus
4	3e-03	12 / 326	nuclear speck
5	1e-02	3 / 33	cytosolic small ribosomal subunit
6	2e-02	3 / 39	cell leading edge
7	2e-02	2 / 15	NURD complex
8	2e-02	2 / 16	neuron projection terminus
9	3e-02	21 / 936	cytoskeleton
10	3e-02	6 / 163	transcription factor complex
11	3e-02	2 / 20	small ribosomal subunit
12	5e-02	3 / 55	recycling endosome membrane
13	5e-02	2 / 25	condensed chromosome
14	7e-02	2 / 29	histone deacetylase complex
15	7e-02	9 / 354	centrosome

Rank	p-value	#in/all	Geneset
1	6e-06	33 / 1001	LaPointe_mucosa-position_kmeans_H_cecum_colon_ascending_colon_UP_
2	6e-03	24 / 958	LaPointe_mucosa-position_kmeans_D_transverse_colon_UP_
3	1e-02	108 / 6368	LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP_
4	2e-02	14 / 532	LaPointe_mucosa-position_kmeans_B_ascending_colon_transverse_colon_UI
5	3e-02	10 / 349	Lembcke_TCGA_meth_kmeans_F_CIMP_H_UP
6	3e-02	6 / 164	Lembcke_TCGA_meth_kmeans_B_Cluster4_DN
7	4e-02	34 / 1729	LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_t
8	4e-02	19 / 848	LaPointe_mucosa-position_kmeans_O_transverse_colon_UP_
9	4e-02	7 / 221	Lembcke_TCGA_meth_kmeans_A_Cluster4_DN
10	9e-02	3 / 72	Ang_CIRC_CIMP_H-vs_L_hypr
11	9e-02	11 / 483	Lembcke_TCGA-expr_kmeans_H_CIMP_H_UP_Cluster3_DN
12	1e-01	1 / 7	Juehling-MSI-enriched-in-7
13	1e-01	3 / 77	Ang_CRC_Hypermethylated
14	1e-01	1 / 8	KIM_MSI-in-EC
15	1e-01	1 / 11	Kaneda_CIMP-group2

Rank	p-value	#in/all	Geneset
1	0.02	7 / 195	HALLMARK_G2M_CHECKPOINT
2	0.05	5 / 141	HALLMARK_UV_RESPONSE_DN
3	0.05	6 / 187	HALLMARK_E2F_TARGETS
4	0.06	6 / 194	HALLMARK_ESTROGEN_RESPONSE_EARLY
5	0.07	2 / 29	HALLMARK_NOTCH_SIGNALING
6	0.10	4 / 13	HALLMARK_WNT_BETA_CATENIN_SIGNALING
7	0.17	2 / 51	HALLMARK_TGF_BETA_SIGNALING
8	0.25	4 / 176	HALLMARK_ALLOGRAFT_REJECTION
9	0.31	4 / 193	HALLMARK_ESTROGEN_RESPONSE_LATE
10	0.31	4 / 194	HALLMARK_MYOGENESIS
11	0.31	4 / 194	HALLMARK_KRAS_SIGNALING_UP
12	0.40	2 / 94	HALLMARK_PROTEIN_SECRETION
13	0.46	3 / 173	HALLMARK_MITOTIC_SPINDLE
14	0.46	3 / 174	HALLMARK_APICAL_JUNCTION
15	0.51	3 / 188	HALLMARK_HYPOXIA

Rank	p-value	#in/all	Geneset
1	6e-29	28 / 99	Sha_BL_UP
2	6e-24	31 / 192	Victoria_Dark_zone_signature
3	6e-23	13 / 15	BENTINK_mBL_UP
4	9e-17	51 / 955	SPANG_BCR_UP
5	4e-12	23 / 263	SPANG_CD40_6hrs_UP
6	8e-12	6 / 6	MASCOQUE_mBL_UP
7	9e-12	17 / 135	DAVE_BL-vs-DLBCL
8	5e-12	18 / 227	SPANG_IL21_UP
9	5e-06	4 / 9	DAVE_BL_UP
10	7e-05	8 / 96	SPANG_LPS_6hrs_UP
11	9e-05	4 / 17	Aukema_BCL2_UP_BCL6_DN
12	5e-04	101 / 5404	HOPP_Strong_enhancer
13	6e-04	25 / 5682	HOPP_Weak_promoter
14	6e-04	11 / 234	HOPP_Lymphoma_Epi1_no_zentr_6_MCL_DN
15	6e-04	108 / 5908	HOPP_Active_promoter

Rank	p-value	#in/all	Geneset
1	4e-05	8 / 87	hsa-miR-449b
2	2e-04	12 / 236	hsa-miR-34a
3	2e-03	3 / 17	hsa-miR-151-5p
4	2e-03	10 / 232	hsa-miR-184-5p
5	2e-03	6 / 93	hsa-miR-605
6	2e-03	7 / 126	hsa-miR-338-3p
7	3e-03	9 / 203	hsa-miR-449a
8	3e-03	5 / 68	hsa-miR-1265
9	3e-03	8 / 171	hsa-miR-101
10	4e-03	6 / 103	hsa-miR-576-3p
11	5e-03	4 / 47	hsa-miR-370
12	5e-03	7 / 145	hsa-miR-607
13	5e-03	6 / 111	hsa-miR-656
14	7e-03	5 / 82	hsa-miR-653
15	7e-03	7 / 155	hsa-miR-586

Rank	p-value	#in/all	Geneset
1	0.3	1 / 27	Nabetai_ni_letn_telomeres_genes_ks
2	1.0	0 / 13	Alternative lengthening of telomeres
3	NA	0 / 0	
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Rank	p-value	#in/all	Geneset
1	3e-04	16 / 414	negative regulation of transcription, DNA-templated
2	3e-04	3 / 13	replicative senescence
3	2e-03	3 / 18	negative regulation of phosphorylation
4	4e-03	18 / 621	negative regulation of transcription from RNA polymerase II promoter
5	4e-03	3 / 23	positive regulation of pri-miRNA transcription from RNA polymerase II promot
6	5e-03	6 / 110	regulation of cell cycle
7	5e-03	3 / 26	positive regulation of glucose import
8	6e-03	3 / 26	sphingolipid metabolic process
9	7e-03	3 / 27	positive regulation of Wnt signaling pathway
10	8e-03	3 / 29	spinal cord development
11	9e-03	7 / 160	negative regulation of gene expression
12	9e-03	10 / 521	transcription from RNA polymerase II promoter
13	9e-03	3 / 30	response to testosterone
14	1e-02	2 / 11	establishment or maintenance of epithelial cell apical/basal polarity
15	1e-02	2 / 11	muscle fiber development

Rank	p-value	#in/all	Geneset
1	0.002	16 / 480	Chr 4
2	0.021	3 / 41	Chr 4
3	0.033	11 / 403	Chr 12
4	0.053	9 / 333	Chr 22
5	0.062	7 / 242	Chr 13
6	0.262	12 / 669	Chr 6
7	0.283	9 / 492	Chr 9
8	0.314	12 / 700	Chr 12
9	0.410	9 / 584	Chr 5
10	0.609	6 / 437	Chr 8
11	0.622	5 / 369	Chr 20
12	0.647	18 / 1325	Chr 1
13	0.665	11 / 236	Chr 2
14	0.667	11 / 833	Chr 19
15	0.685	7 / 548	Chr 16

Rank	p-value	#in/all	Geneset
1	0.02	3 / 41	Hopp_Sturm_GBM_Epi3_C1_IDH_UP_fetus_DN
2	0.03	22 / 979	Hopp_Sturm_GBM_Epi3_no_zentr_5_IDH_UP_fetus_adult_DN
3	0.04	11 / 421	Down_b
4	0.05	3 / 58	GIEZELT_GBM_STSwt_down_VS_LTSwt
5	0.05	6 / 186	Hopp_Sturm_GBM_Epi3_C_IDH_UP
6	0.05	3 / 59	GIEZELT_GBM_STS_up_VS_LTS
7	0.07	2 / 30	Shaw_responders_down_in_oligo_glioma
8	0.07	3 / 66	GIEZELT_GBM_MGMTmethyl_down_VS_nonmethyl
9	0.08	2 / 32	WIRTH_FN_subtype
10	0.08	2 / 32	Shaw_down_in_1p9qdel
11	0.08	1 / 6	Shaw_responders_up_in_oligo_glioma
12	0.10	1 / 7	Donson-cytotoxic effectors-associated with LTS in HGA
13	0.11	1 / 8	Shaw_up_in_1p9qdel
14	0.11	1 / 8	WILLSCHER_GBM_LTSmut_proteomics-A_UP
15	0.15	1 / 11	KIM amplified & overexpressed in LTS

Rank	p-value	#in/all	Geneset
1	0.05	2 / 25	Angelova Immune-metagenes-DC
2	0.14	1 / 10	Angelova Immune-metagenes-neutrophils
3	0.17	1 / 13	Angelova Immune-metagenes-activated_B-cells
4	0.17	1 / 13	Angelova Immune-metagenes-immature_B-cells
5	0.22	1 / 17	Angelova Immune-metagenes-central_memory_CD8
6	0.23	1 / 23	Angelova Immune-metagenes-immunostimulators
7	0.32	1 / 26	Angelova Immune-metagenes-activated_CD4
8	0.48	1 / 45	Angelova Immune-metagenes-MDSC
9	1.00	0 / 19	Angelova Immune-metagenes-activated_CD8
10	1.00	0 / 21	Angelova Immune-metagenes-central_memory_CD4
11	1.00	0 / 7	Angelova Immune-metagenes-cytotoxic cells
12	1.00	0 / 12	Angelova Immune-metagenes-effector_memory_CD4
13	1.00	0 / 32	Angelova Immune-metagenes-effector_memory_CD8
14	1.00	0 / 14	Angelova Immune-metagenes-eosinophil
15	1.00	0 / 19	Angelova Immune-metagenes-IDC

Rank	p-value	#in/all	Geneset
1	0.02	10 / 319	Gerber_w/wt_melanoma-cells-SpotA
2	0.03	23 / 497	Gerber_w/wt_melanoma-cells-SpotD
3	0.03	4 / 83	TCGA_melanoma Immune_high
4	0.06	1 / 4	Melanoma Epi-Enzyme Cluster 5
5	0.08	3 / 68	Tirosh_housekeeping_genes
6	0.17	2 / 51	Tirosh_genes from CD8 T-cells in Mel79-melanoma
7	0.24	4 / 171	Landsberg_deferentiation_up
8	0.24	6 / 230	Gerber_w/wt_melanoma-cells-SpotC
9	0.30	1 / 24	Cerami_melanoma-metastatic-risk_DN
10	0.37	5 / 276	Gerber_w/wt_melanoma-cells-SpotB
11	0.38	1 / 33	Tirosh_T-cell specific genes-melanoma
12	0.43	1 / 38	Tirosh_G1/S phase specific genes
13	0.46	4 / 26	Gerber_w/wt_group3-specific
14	0.46	2 / 107	Tirosh_ Exhaustion program in Mel75
15	0.50	1 / 47	Tirosh_G2/M phase specific genes

Rank	p-value	#in/all	Geneset
1	2e-05	7 / 57	Burnham_day1_vs_5_UP
2	5e-02	3 / 57	Burnham_viral_UP
3	1e-01	2 / 41	SciLuna_DN
4	2e-01	2 / 56	Burnham_sep_vs_con_DN
5	2e-01	1 / 18	SciLuna_UP
6	5e-01	1 / 48	Burnham_cap_fp_vs_con_DN
7	6e-01	1 / 68	Burnham_sep_vs_con_UP
8	9e-01	1 / 135	Terre_MSV_multiple_respiratory_viruses_up
9	9e-01	1 / 179	Terre_MSV_multiple_respiratory_viruses_dn
10	1e+00	0 / 71	Burnham_cap_fp_vs_con_UP
11	1e+00	0 / 48	Burnham_viral_DN
12	1e+00	0 / 52	Burnham_day1_vs_5_DN
13	1e+00	0 / 54	Burnham_timecourse
14	1e+00	0 / 37	Sweeney_viral_up
15	1e+00	0 / 33	Sweeney_viral_dn

Rank	p-value	#in/all	Geneset
1	0.06	1 / 4	MYC_TF and cofactors
2	0.10	58 / 3435	ICGC_Ebfc137065_targets
3	0.12	1 / 9	MYC_Targets DOWN
4	0.12	1 / 9	MYC_DNA repair UP
5	0.19	51 / 3121	ICGC_Egr1_targets
6	0.19	22 / 1241	KIM_MYC targets
7	0.21	31 / 1848	ICGC_Pbx3_targets
8	0.22	37 / 2254	ICGC_BatfPcr1_targets
9	0.23	60 / 3796	ICGC_Nficc81335_targets
10	0.24	18 / 1032	ICGC_Usf1_targets
11	0.30	49 / 3150	ICGC_Creb1_targets
12	0.33	70 / 4602	ICGC_Elf1_targets
13	0.34	62 / 4072	ICGC_Mta3_targets
14	0.34	24 / 1508	ICGC_Mef2_targets
15	0.35	46 / 2994	ICGC_Zeb1_targets

Rank	p-value	#in/all	Geneset
1	2e-17	10 / 12	BENTINK_n2f3_2
2	7e-09	6 / 12	BENTINK_ras_1
3	4e-05	4 / 14	BENTINK_src.10
4	2e-03	9 / 186	SPANG_LPS-index2
5	2e-02	2 / 14	BENTINK_src.2
6	3e-02	2 / 20	PanCan_ChromMod_geneset_nanostring
7	4e-02	11 / 409	Lembcke_Normal_vs_Adenoma
8	4e-02	0 / 14	LIU_PROSTATE_CANCER_DN
9	8e-02	2 / 32	KUIPER_MM_good_survival
10	9e-02	3 / 72	PanCan_Wnt_geneset_nanostring
11	9e-02	0 / 11	LIU_PROSTATE_CANCER_UP
12	1e-01	2 / 41	PanCan_DNARepair_geneset_nanostring
13	1e-01	4 / 130	PanCan_CC+Apop_geneset_nanostring
14	1e-01	5 / 187	PanCan_P13K_geneset_nanostring
15	1e-01	1 / 10	GENTLES_modul3

Rank	p-value	#in/all	Geneset
1	2e-07	154 / 8406	Bcells_peripheral_blood_2_TssAFink
2	2e-07	163 / 9160	2_TSSA_Neural_Progenitor
3	1e-06	17 / 8322	1_CD8+naive_cells_peripheral_blood_1_TSSA
4	2e-06	147 / 8068	Thelper_cells_peripheral_blood_1_TSSA
5	4e-06	143 / 7833	Bcells_peripheral_blood_1_TSSA
6	6e-06	88 / 4062	T_CD8+naive_cells_peripheral_blood_15_Quies
7	8e-06	56 / 2197	monocytes_peripheral_blood_11_BivFink
8	1e-05	160 / 8298	Bcells_peripheral_blood_7_Enh
9	2e-05	165 / 8918	1_TSSA_ESC_Mesoderm
10	2e-05	153 / 8766	2_TSSA_Melanocytes
11	2e-05	44 / 1611	natural_killer_cells_peripheral_blood_11_BivFink
12	2e-05	121 / 6389	4_Tx_ESC_Mesoderm
13	2e-05	82 / 3819	natural_killer_cells_peripheral_blood_15_Quies
14	2e-05	82 / 3825	Bcells_peripheral_blood_15_Quies
15	3e-05	151 / 8641	1_TSSA_ESC_Endoderm

Rank	p-value	#in/all	Geneset
1	3e-49	31 / 42	HUMMEL_BURKITT'S_LYMPHOMA_UP
2	4e-19	31 / 275	HADDAD_B_LYMPHOCTYTE_PROGENITOR
3	6e-11	12 / 61	BASSO_CD40_SIGNALING_DN
4	2e-08	29 / 615	BARTBERT_PHOTOGENOMIC_THERAPY_STRESS_DN
5	1e-07	15 / 135	HOLMANN_APOPTOSIS_VIA_CD40_UP
6	2e-07	9 / 60	PYEON_HP_V_POSITIVE_TUMORS_UP
7	4e-07	16 / 240	MITSIADES_RESPONSE_TO_APLINDIN_DN
8	6e-07	29 / 728	KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
9	2e-06	26 / 651	KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
10	3e-06	8 / 51	Bcell_B CLL_18L_UP
11	4e-06	12 / 160	PUJANA_XPRSS_INT_NETWORK
12	5e-06	19 / 400	PUJANA_BCRA2_PCC_NETWORK
13	8e-06	17 / 337	DEURIG_T_CELL_POLYMPHOCYTIC_LEUKEMIA_UP
14	9e-06	12 / 176	BILLEZF3_ONCOGENIC_SIGNATURE
15	2e-05	19 / 444	MARTINEZ_RB1_AND_TP53_TARGETS_DN

Rank	p-value	#in/all	Geneset
1	0.01	3 / 32	Marijein_ageing-genes_DN
2			

Overexpression Spots

Spot Summary: B

metagenes = 6
genes = 112

<r> metagenes = 0.99
<r> genes = 0.36
beta: r2= 14.46 / log p= -Inf

samples with spot = 62 (28.1 %)
mBL : 41 (93.2 %)
intermediate : 10 (20.8 %)
non-mBL : 11 (8.5 %)

Spot Genelist

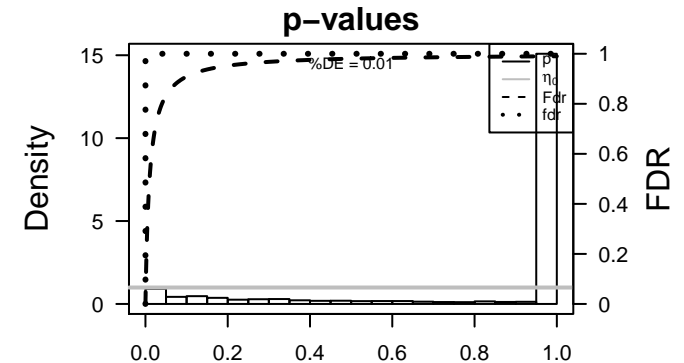
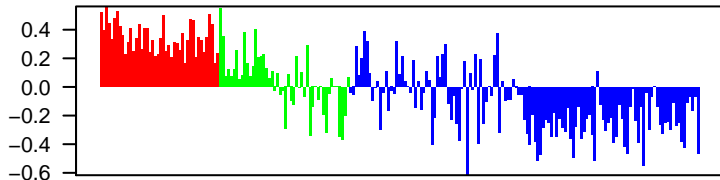
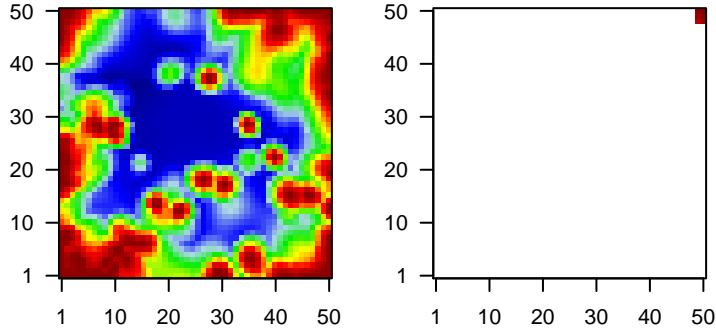
Rank	ID	max e	r	min e	Description
1	AFFX-r2-Hs1	3.22	-1.13	0.58	
2	AFFX-r2-Hs1	3.07	-1.49	0.5	
3	AFFX-HUMR	2.91	-0.94	0.58	microRNA 3687-2 [Source:HGNC Symbol;Acc:HGNC:50835]
4	AFFX-HUMR	2.85	-1.18	0.48	
5	AFFX-r2-Hs1	2.71	-1.22	0.66	
6	AFFX-M2783	2.6	-1.58	0.57	
7	AFFX-HUMR	2.6	-1.04	0.59	
8	AFFX-r2-Hs1	2.21	-1.56	0.55	
9	215767_at	1.86	-2.03	0.34	ZNF804 Zinc finger protein 804A [Source:HGNC Symbol;Acc:HGNC:2
10	211071_s_at	1.55	-1.35	0.44	MLLT11 MLLT11, transcription factor 7 cofactor [Source:HGNC Symb
11	220214_at	1.53	-1.31	0.49	ZNF215 zinc finger protein 215 [Source:HGNC Symbol;Acc:HGNC:13
12	215907_at	1.52	-1.29	0.48	
13	219703_at	1.3	-1.06	0.65	MNS1 meiosis specific nuclear structural 1 [Source:HGNC Symbol;#
14	215143_at	1.28	-1.14	0.59	
15	208580_x_at	1.24	-0.83	0.54	HIST1H4K histone cluster 1 H4 family member k [Source:HGNC Symb
16	AFFX-BioB-2	1.19	-1.03	0.56	
17	214220_s_at	1.16	-0.96	0.64	ALMS1 ALMS1, centrosome and basal body associated protein [Sou
18	204087_s_at	1.15	-1.02	0.64	SLC5A6 solute carrier family 5 member 6 [Source:HGNC Symbol;Acc:
19	212290_at	1.1	-1.52	0.61	SLC7A1 solute carrier family 7 member 1 [Source:HGNC Symbol;Acc:
20	218848_at	1.1	-1.13	0.57	THOC6 THO complex 6 [Source:HGNC Symbol;Acc:HGNC:28369]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	9e-14	22 / 400	GSE# PUJANA_BRCA2_PCC_NETWORK
2	1e-13	20 / 319	Melar Gerber_wt/wt_melanoma-cells-SpotA
3	4e-11	30 / 1052	GSE# DODD_NASOPHARYNGEAL_CARCIOMA_DN
4	9e-11	16 / 267	GSE# LINDGREN_BLADDER_CANCER_CLUSTER_3_UP
5	4e-10	71 / 5529	Lympi HOPP_Txn_elongation
6	2e-09	18 / 431	GSE# GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
7	7e-09	19 / 526	GSE# MARSON_BOUND_BY_E2F4_UNSTIMULATED
8	2e-08	17 / 439	GSE# SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
9	2e-08	12 / 195	HM HALLMARK_G2M_CHECKPOINT
10	4e-08	16 / 409	Canci Lemboke_Normal vs Adenoma
11	6e-08	9 / 102	GSE# WHITEFORD_PEDIATRIC_CANCER_MARKERS
12	7e-08	14 / 314	GSE# LINDGREN_BLADDER_CANCER_CLUSTER_1_DN
13	8e-08	24 / 966	GSE# KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
14	2e-07	41 / 2541	CC nucleoplasm
15	4e-07	58 / 4579	CC nucleus
16	9e-07	29 / 1527	GSE# PUJANA_BRCA1_PCC_NETWORK
17	1e-06	12 / 281	BP DNA repair
18	1e-06	6 / 47	GSE# OXFORD_RALA_OR_RALB_TARGETS_UP
19	1e-06	9 / 147	GSE# HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP
20	2e-06	8 / 115	Gliom WILLSCHEER_GBM_Verhaak-CL_up (C)
21	4e-06	17 / 641	GSE# CASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_DN
22	4e-06	12 / 321	GSE# TOYOTA_TARGETS_OF_MIR34B_AND_MIR34C
23	4e-06	14 / 442	GSE# KIM_WT1_TARGETS_DN
24	4e-06	8 / 128	GSE# BENPORATH_PROLIFERATION
25	7e-06	17 / 669	GSE# JOHNSTONE_PARVB_TARGETS_3_DN
26	9e-06	9 / 187	HM HALLMARK_E2F_TARGETS
27	1e-05	12 / 351	BP cellular response to DNA damage stimulus
28	1e-05	52 / 4261	Lymp HOPP_Txn_transition
29	1e-05	5 / 41	GSE# PARK_HSC_AND_MULTIPOTENT_PROGENITORS
30	1e-05	7 / 106	GSE# VANTVEER_BREAST_CANCER_METASTASIS_DN
31	2e-05	14 / 497	BP cell cycle
32	2e-05	10 / 254	GSE# DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
33	2e-05	17 / 726	GSE# PUJANA_CHEK2_PCC_NETWORK
34	2e-05	3 / 8	GSE# SEMBA_FHIT_TARGETS_DN
35	2e-05	8 / 160	GSE# PUJANA_XPRSS_INT_NETWORK
36	2e-05	11 / 324	CC chromosome
37	4e-05	10 / 280	GSE# MANALO_HYPOXIA_DN
38	4e-05	8 / 173	HM HALLMARK_MITOTIC_SPINDLE
39	4e-05	9 / 226	GSE# ZHANG_TLX_TARGETS_60HR_DN
40	4e-05	3 / 10	BP kinetochore assembly

Overview Map

Spot



Rank	p-value	#in/all	Geneset
1	0.5	1/92	HNRV4TH_aging_genes_meth_DOWN
2	0.5	1/107	HORVATH_aging_genes_meth_UP
3	1.0	0/47	TESCHENDORFF_age_hypermethylated
4	NA	0/0	
5	NA	0/0	
6	NA	0/0	
7	NA	0/0	
8	NA	0/0	
9	NA	0/0	
10	NA	0/0	
11	NA	0/0	
12	NA	0/0	
13	NA	0/0	
14	NA	0/0	
15	NA	0/0	

Rank	p-value	#in/all	Geneset
1	2e-07	41 / 2541	nucleoplasm
2	4e-07	58 / 4579	nucleus
3	2e-05	26 / 324	chromosome
4	2e-04	6 / 118	chromosome, centromeric region
5	3e-04	6 / 121	midbody
6	9e-04	5 / 101	kinetochore
7	2e-03	2 / 10	chromocenter
8	4 / 77		condensed chromosome kinetochore
9	3e-03	2 / 11	Panconi anaemia nuclear complex
10	4e-03	3 / 44	nuclear chromosome
11	4e-03	8 / 354	centrosome
12	6e-03	7 / 292	microtubule organizing center
13	4 / 98		spindle pole
14	7e-03	4 / 103	nuclear chromosome, telomeric region
15	1e-02	2 / 21	mitotic spindle pole

Rank	p-value	#in/all	Geneset
1	0.001	12 / 602	Pentrack_CRC_TCGA_corr_R_normal_DN
2	0.002	18 / 1174	LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse_colo
3	0.006	2 / 16	Budinska_B_Lower_crypt-like_UP
4	0.008	10 / 561	Pentrack_CRC_TCGA_group_over_C_normal_DN
5	0.022	2 / 31	Marisa_CRC-cluster-c
6	0.036	1 / 5	Marisa_CRC-C5
7	0.045	19 / 1729	LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_t
8	0.047	4 / 184	Kosinski_lower_crypt-long-list
9	0.096	10 / 854	LaPointe_mucosa-position_kmeans_A_ascending_colon_UP_
10	0.10	1 / 14	Hewitt_CRC_MIR-secondary-mutations_DNA-repair
11	0.124	2 / 83	Marisa_CRC-cluster-d
12	0.154	6 / 492	LaPointe_mucosa-position_kmeans_C_cecum_colon_ascending_colon_trans
13	0.205	1 / 31	Kosinski_lower_crypt-short-list
14	0.271	9 / 958	LaPointe_mucosa-position_kmeans_D_transverse_colon_UP_
15	0.304	1 / 49	Pentrack_CRC_TCGA_corr_N_msi-hn_DN

Rank	p-value	#in/all	Geneset
1	2e-08	12 / 195	HALLMARK_G2M_CHECKPOINT
2	9e-06	9 / 187	HALLMARK_E2F_TARGETS
3	4e-05	8 / 173	HALLMARK_MITOTIC_SPINDLE
4	7e-02	3 / 133	HALLMARK_DNA_REPAIR
5	2e-01	3 / 192	HALLMARK_MTORC1_SIGNALING
6	3e-01	4 / 44	HALLMARK_REACTIVE_OXIGEN_SPECIES_PATHWAY
7	3e-01	1 / 45	HALLMARK_MYC_TARGETS_V2
8	5e-01	1 / 97	HALLMARK_PI3K_AKT_MTOR_SIGNALING
9	6e-01	1 / 139	HALLMARK_FATTY_ACID_METABOLISM
10	6e-01	1 / 141	HALLMARK_UV_RESPONSE_DN
11	7e-01	1 / 174	HALLMARK_ADIPOGENESIS
12	7e-01	1 / 176	HALLMARK_ALLOGRAFT_REJECTION
13	7e-01	1 / 182	HALLMARK_GLYCOLYSIS
14	7e-01	1 / 186	HALLMARK_OXIDATIVE_PHOSPHORYLATION
15	8e-01	1 / 187	HALLMARK_INFAMMATORY_RESPONSE

Rank	p-value	#in/all	Geneset
1	4e-10	71 / 5529	HOPP_Txn_elongation
2	1e-05	52 / 4261	HOPP_Txn_transition
3	2e-04	61 / 5908	HOPP_Active_promoter
4	3e-03	6 / 192	Victoria_Dark_zone_signature
5	4e-03	15 / 955	SPANG_BCR_UP
6	4e-02	3 / 99	Sha_BL_UP
7	5e-02	6 / 353	SPANG_CD40_hrs_DN
8	1e-01	4 / 237	ZHANG_DLBCl_mutated
9	1e-01	38 / 4357	HOPP_Weak_tn
10	1e-01	48 / 5682	HOPP_Weak_promoter
11	2e-01	45 / 5404	HOPP_Strong_enhancer
12	2e-01	2 / 102	ROSLOVSKI_blue_total
13	1e-01	17 / 1814	HOPP_Repetitive
14	2e-01	9 / 906	SPANG_BCR_DN
15	3e-01	37 / 4559	HOPP_Weak_enhancer

Rank	p-value	#in/all	Geneset
1	0.003	7 / 260	hsa-let-7e
2	0.011	2 / 22	hsa-miR-1225-3p
3	0.017	2 / 27	hsa-miR-770-5p
4	0.022	3 / 82	hsa-miR-210-5p
5	0.027	2 / 35	hsa-miR-1224-5p
6	0.032	2 / 38	hsa-miR-518a-3p
7	0.032	3 / 94	hsa-miR-875-3p
8	0.035	4 / 167	hsa-miR-221
9	0.036	1 / 5	hsa-miR-338-3p
10	0.050	2 / 49	hsa-miR-940
11	0.052	2 / 50	hsa-miR-384
12	0.055	4 / 194	hsa-miR-124
13	0.055	3 / 117	hsa-miR-200a
14	0.057	1 / 8	hsa-miR-638
15	0.061	3 / 122	hsa-miR-506

Rank	p-value	#in/all	Geneset
1	0.09	1 / 13	Alternative lengthening of telomeres
2	0.18	1 / 27	Nabetani_alt_len_telomeres_genes_ks
3	NA	0/0	
4	NA	0/0	
5	NA	0/0	
6	NA	0/0	
7	NA	0/0	
8	NA	0/0	
9	NA	0/0	
10	NA	0/0	
11	NA	0/0	
12	NA	0/0	
13	NA	0/0	
14	NA	0/0	
15	NA	0/0	

BP Rank	p-value	#in/all	Geneset
1	1e-06	12 / 281	DNA repair
2	1e-05	12 / 3851	cellular response to DNA damage stimulus
3	2e-05	14 / 497	cell cycle
4	4e-05	3 / 10	kinetochore assembly
5	2e-04	5 / 71	regulation of G2/M transition of mitotic cell cycle
6	2e-04	5 / 76	DNA recombination
7	2e-04	3 / 17	replication fork processing
8	4e-04	9 / 307	cell division
9	6e-04	4 / 52	double-strand break repair via nonhomologous end joining
10	8e-04	4 / 57	double-strand break repair via homologous recombination
11	1e-03	3 / 27	DNA biosynthetic process
12	0.0	4 / 62	meiotic cell cycle
13	1e-03	3 / 30	mitotic spindle organization
14	2e-03	4 / 70	chromosome segregation
15	2e-03	3 / 33	regulation of cytokinesis

Chr Rank	p-value	#in/all	Geneset
1	0.02	9 / 548	Chr 16
2	0.06	10 / 776	Chr 17
3	0.08	15 / 1595	Chr 18
4	0.08	10 / 833	Chr 19
5	0.10	4 / 242	Chr 13
6	0.37	6 / 669	Chr 6
7	0.47	4 / 480	Chr 4
8	0.49	4 / 492	Chr 9
9	0.58	6 / 689	Chr 3
10	0.64	1 / 139	Chr 21
11	0.71	2 / 333	Chr 22
12	0.76	2 / 369	Chr 20
13	0.76	4 / 70	Chr 15
14	0.78	2 / 382	Chr 15
15	0.80	2 / 403	Chr 15

Rank	p-value	#in/all	Geneset
1	2e-06	8 / 115	WILLSCHER_GBM_Verhaak-CL_up (C)
2	5e-03	3 / 47	developing astrocytes
3	9e-03	3 / 59	WILLSCHER_GBM_Verhaak-PNwt & MES_up
4	7e-02	15 / 1343	Hopp_Sturm_GBM_Epi3_no_zentr_6_FTEU_UP
5	1e-01	1 / 78	VERHAAK_GBM_Verhaak-PNwt & CL_up
6	1e-01	1 / 22	Martinez_Glio_hypermeth
7	2e-01	14 / 1523	Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
8	3e-01	1 / 45	OL vs. MOG - OL
9	3e-01	1 / 53	Christensen_hypermethylated_in_primary_glioblastoma
10	3e-01	3 / 282	WILLSCHER_GBM_Verhaak-PNwt & CL_up
11	3e-01	1 / 58	Stuehler_Proteins_up_in_STS
12	4e-01	4 / 421	Down_b
13	4e-01	1 / 66	Weller_LGG_gradelII-vs-III_DOWN
14	4e-01	1 / 67	Sturm_GBM_Meth_overexpression_I_RTKI_PDGFR_A_UP
15	4e-01	1 / 69	Hopp_Sturm_GBM_Epi3_D1_IDH_UP_adult_fetus_DN

Rank	p-value	#in/all	Geneset
1	0.13	1 / 13	Angelova Immune-metagenes-activated B-cells
2	0.26	0 / 26	Angelova Immune-metagenes-activated CD4
3	0.19	0 / 19	Angelova Immune-metagenes-activated CD8
4	0.21	0 / 21	Angelova Immune-metagenes-central_memory CD4
5	0.17	0 / 17	Angelova Immune-metagenes-central_memory CD8
6	0.27	0 / 27	Angelova Immune-metagenes-cytotoxic cells
7	0.25	0 / 25	Angelova Immune-metagenes-DC
8	0.12	0 / 12	Angelova Immune-metagenes-effector_memory CD4
9	0.32	0 / 32	Angelova Immune-metagenes-effector_memory CD8
10	0.14	0 / 14	Angelova Immune-metagenes-eosinophil
11	0.19	0 / 19	Angelova Immune-metagenes-IDC
12	0.13	0 / 13	Angelova Immune-metagenes-immature_B-cells
13	0.11	0 / 11	Angelova Immune-metagenes-macrophages
14	0.38	0 / 38	Angelova Immune-metagenes-mast-cells
15	0.8	0 / 8	Angelova Immune-metagenes-mDC

Rank	p-value	#in/all	Geneset
1	1e-13	20 / 319	Gerber_wt/wt_melanoma-cells-SpotA
2	4e-04	4 / 47	Tirosh_G2/M_phase_specific_genes
3	1e-02	1 / 2	Melanoma Epi-Enzyme Cluster 6
4	3e-02	1 / 4	Melanoma Epi-Enzyme Cluster 3
5	4e-02	2 / 44	Tirosh_top50 correlated genes PC2
6	4e-02	2 / 46	Tirosh_top50 correlated genes PC5
7	2e-05	2 / 65	Harbst_melanoma_highgrade_up
8	2e-01	2 / 79	Tirosh_core_cycling_genes_in_low- and high-proliferation melanoma
9	3e-01	1 / 51	Tirosh_genes from CD8 T-cells in Mel79-melanoma
10	3e-01	3 / 276	Gerber_wt/wt_melanoma-cells-SpotB
11	5e-01	2 / 249	Gerber_wt/wt_melanoma-cells-SpotE
12	8e-01	1 / 222	Gerber_wt/wt_melanoma-cells-SpotF
13	1e-01	1 / 231	Gerber_wt/wt_melanoma-cells-SpotC
14	8e-01	1 / 236	Gerber_wt/wt_group3-specific
15	1e+00	1 / 497	Gerber_wt/wt_melanoma-cells-SpotD

Rank	p-value	#in/all	Geneset
1	0.3	1 / 52	Burnham_day1_vs_5_DN
2	0.3	1 / 54	Burnham_timecourse
3	0.4	1 / 68	Burnham_sep_vs_con_UP
4	0.4	1 / 71	Burnham_cap_ip_vs_con_UP
5	0.6	1 / 135	Terre_MSX_multiple_respiratory_viruses_up
6	0.7	1 / 179	Terre_MSX_multiple_respiratory_viruses_dn
7	1.0	0 / 56	Burnham_sep_vs_con_DN
8	1.0	0 / 48	Burnham_cap_ip_vs_con_DN
9	1.0	0 / 48	Burnham_viral_DN
10	1.0	0 / 57	Burnham_viral_UP
11	1.0	0 / 57	Burnham_day1_vs_5_UP
12	1.0	0 / 18	SciCluna_UP
13	1.0	0 / 41	SciCluna_DN
14	1.0	0 / 37	Sweeney_viral_up
15	1.0	0 / 33	Sweeney_viral_dn

Rank	p-value	#in/all	Geneset
1	7e-05	22 / 1241	KIM_MYC_targets
2	1e-04	40 / 3150	ICGC_Creb1_targets
3	2e-04	43 / 3564	ICGC_Taf1_targets
4	4e-04	24 / 1578	ICGC_GabpPcr2_targets
5	6e-04	43 / 3769	ICGC_Pmls71910_targets
6	6e-04	18 / 1089	ICGC_Ets1_targets
7	2e-03	42 / 3796	ICGC_Nficsc81335_targets
8	2e-03	41 / 3703	ICGC_Foxm1_targets
9	2e-03	11 / 549	ICGC_Atf3_targets
10	2e-03	40 / 3630	ICGC_Sp1_targets
11	4e-03	41 / 3894	ICGC-Ets3_targets
12	4e-03	16 / 1044	ICGC_Six5_targets
13	4e-03	35 / 3121	ICGC_Egr1_targets
14	5e-03	37 / 3420	ICGC_Bclaf101388_targets
15	6e-03	42 / 4072	ICGC_Mta3_targets

Rank	p-value	#in/all	Geneset
1	4e-08	16 / 409	Lemboke_Normal_vs_Adenoma
2	7e-04	1 / 14	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
3	2e-03	2 / 10	GENTLES_modul3
4	3e-03	3 / 41	PanCan_DNARepair_geneset_nanostring
5	4e-02	2 / 45	KUIPER_MM_poor_survival
6	5e-02	1 / 14	LIU_COMMON_CANCER_GENES
7	8e-02	1 / 15	RHODES_UNDIFFERENTIATED_CANCER
8	8e-02	1 / 12	BENTINK_ras.1
9	9e-02	1 / 13	GENTLES_modul11
10	1e-01	1 / 15	BEN-PORATH_UP
11	2e-01	0 / 16	LIU_LIVER_CANCER
12	2e-01	1 / 32	KUIPER_MM_good_survival
13	2e-01	2 / 130	PanCan_CC+Apog_geneset_nanostring
14	3e-01	0 / 15	RHODES_CANCER_META_SIGNATURE
15	3e-01	1 / 58	SHAUGHNESSY_MM_high_risk

Rank	p-value	#in/all	Geneset
1	2e-11	90 / 8406	Bcells_peripheral_blood_2_TssAFlnk
2	1e-10	79 / 6590	Tregulatory_cells_peripheral_blood_5_TxWk
3	2e-10	81 / 8200	monocytes_peripheral_blood_2_TssAFlnk
4	5e-10	88 / 8322	T_CD8+naive_cells_peripheral_blood_1_TssA
5	9e-10	85 / 7833	Bcells_peripheral_blood_1_TssA
6	1e-09	87 / 8245	Tregulatory_cells_peripheral_blood_2_TssAFlnk
7	3e-09	85 / 7957	Tcells_peripheral_blood_2_TssAFlnk
8	3e-09	83 / 7635	monocytes_peripheral_blood_1_TssA
9	5e-09	75 / 6393	4_Tx_ESC_Mesoderm
10	7e-09	80 / 7225	Overlap_fetal_midbrain_ReprPC
11	8e-09	86 / 8275	2_TssA_Fibroblasts
12	9e-09	84 / 7930	Tregulatory_cells_peripheral_blood_1_TssA
13	1e-08	73 / 6068	4_Tx_ESC_Endoderm
14	2e-08	81 / 7489	monocytes_peripheral_blood_5_TxWk
15	3e-08	87 / 8641	1_TssA_ESC_Endoderm

Rank	p-value	#in/all	Geneset
1	9e-14	22 / 400	PUJANA_BRCA2_PCC_NETWORK
2	4e-11	30 / 1052	DODD_NASOPHARYNGEAL_CARCINOMA_DN
3	9e-11	16 / 267	LINDGREEN_BLADDER_CANCER_CLUSTER_3_UP
4	18 / 431		GERBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
5	2e-09	10 / 526	MARSON_BOUND_BY_E2F4_UNSTIMULATED
6	2e-08	17 / 439	

Overexpression Spots

Spot Summary: C

metagenes = 6
genes = 60

<r> metagenes = 0.99
<r> genes = 0.41
beta: r2= 2.26 / log p= -Inf

samples with spot = 15 (6.8 %)

mBL : 3 (6.8 %)
intermediate : 1 (2.1 %)
non-mBL : 11 (8.5 %)

Spot Genelist

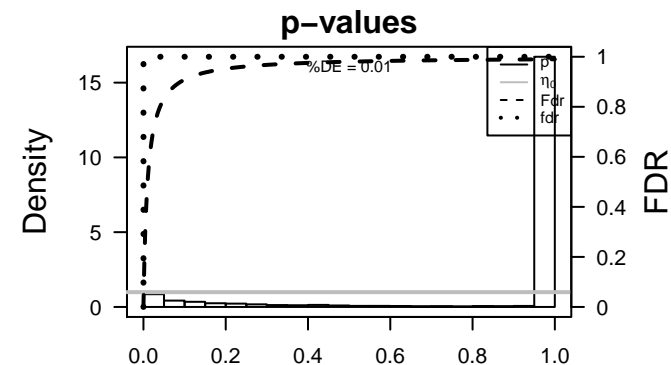
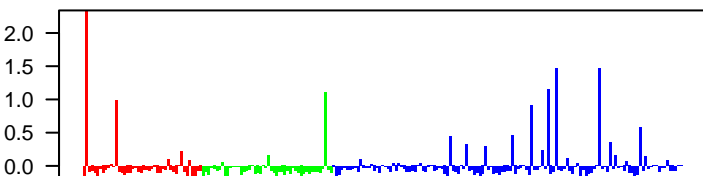
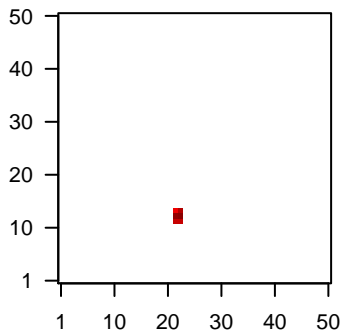
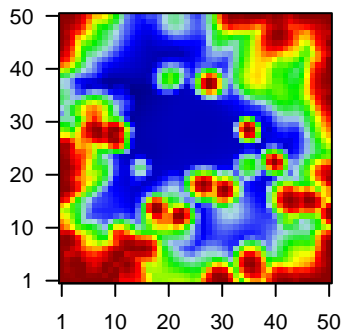
Rank	ID	max e	r	min e	Description
					Symbol
1	209351_at	3.74	-0.88	0.84	KRT14 keratin 14 [Source:HGNC Symbol;Acc:HGNC:6416]
2	207935_s_at	3.59	-0.75	0.87	KRT13 keratin 13 [Source:HGNC Symbol;Acc:HGNC:6415]
3	209125_at	3.52	-0.85	0.86	KRT6A keratin 6A [Source:HGNC Symbol;Acc:HGNC:6443]
4	213796_at	3.5	-0.56	0.89	SPRR1A small proline rich protein 1A [Source:HGNC Symbol;Acc:HGNC:6442]
5	214580_x_at	3.41	-0.74	0.85	KRT6A keratin 6A [Source:HGNC Symbol;Acc:HGNC:6443]
6	213240_s_at	3.27	-0.54	0.77	KRT4 keratin 4 [Source:HGNC Symbol;Acc:HGNC:6441]
7	209126_x_at	3.19	-0.85	0.87	KRT6B keratin 6B [Source:HGNC Symbol;Acc:HGNC:6444]
8	218990_s_at	3.14	-0.5	0.84	SPRR3 small proline rich protein 3 [Source:HGNC Symbol;Acc:HGNC:6440]
9	205064_at	3.11	-0.84	0.85	SPRR1B small proline rich protein 1B [Source:HGNC Symbol;Acc:HGNC:6439]
10	204268_at	3.09	-0.94	0.87	S100A2 S100 calcium binding protein A2 [Source:HGNC Symbol;Acc:HGNC:6445]
11	213680_at	2.96	-0.86	0.82	KRT6B keratin 6B [Source:HGNC Symbol;Acc:HGNC:6444]
12	208539_x_at	2.91	-0.65	0.77	SPRR2D small proline rich protein 2D [Source:HGNC Symbol;Acc:HGNC:6438]
13	205916_at	2.87	-0.49	0.65	S100A7A S100 calcium binding protein A7A [Source:HGNC Symbol;Acc:HGNC:6446]
14	205185_at	2.83	-0.74	0.78	SPINK5 serine peptidase inhibitor, Kazal type 5 [Source:HGNC Symbol;Acc:HGNC:6427]
15	205157_s_at	2.82	-0.57	0.73	KRT17 keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]
16	202504_at	2.8	-1.08	0.74	TRIM29 tripartite motif containing 29 [Source:HGNC Symbol;Acc:HGNC:6428]
17	205595_at	2.76	-0.98	0.75	DSG3 desmoglein 3 [Source:HGNC Symbol;Acc:HGNC:3050]
18	202286_s_at	2.75	-0.69	0.81	TACSTD2 tumor associated calcium signal transducer 2 [Source:HGNC Symbol;Acc:HGNC:6429]
19	219554_at	2.73	-0.66	0.75	RHCG Rh family C glycoprotein [Source:HGNC Symbol;Acc:HGNC:6426]
20	220090_at	2.72	-1.01	0.72	CRNN cornulin [Source:HGNC Symbol;Acc:HGNC:1230]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-73	38 / 105	Refer WIRTH_Mucosa
2	3e-46	33 / 248	GSE/ JAEGER_METASTASIS_DN
3	5e-39	34 / 453	GSE/ ONDER_CDH1_TARGETS_2_DN
4	3e-35	21 / 78	BP cornification
5	8e-34	20 / 72	BP keratinization
6	2e-26	15 / 46	GSE/ BOSCO_EPITHELIAL_DIFFERENTIATION_MODULE
7	1e-21	12 / 35	CC cornified envelope
8	2e-20	22 / 422	GSE/ DELYS_THYROID_CANCER_UP
9	2e-17	16 / 208	GSE/ RICKMAN_METASTASIS_DN
10	5e-16	12 / 93	GSE/ CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_UP
11	7e-16	10 / 46	BP keratinocyte differentiation
12	7e-16	21 / 608	GSE/ SMID_BREAST_CANCER_BASAL_UP
13	2e-15	10 / 51	GSE/ HUPER_BREAST_BASAL_VS_LUMINAL_UP
14	6e-15	11 / 82	GSE/ LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
15	7e-15	10 / 57	GSE/ ONDER_CDH1_TARGETS_3_DN
16	1e-14	29 / 1652	Gliom Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
17	3e-14	13 / 169	MF structural molecule activity
18	3e-14	8 / 26	GSE/ AIGNER_ZEB1_TARGETS
19	6e-14	8 / 28	BP peptide cross-linking
20	8e-14	9 / 47	GSE/ CROMER_TUMORIGENESIS_DN
21	8e-14	20 / 677	Refer PROTEINATLAS_esophagus
22	9e-14	15 / 294	GSE/ LEI_MYB_TARGETS
23	1e-13	10 / 74	BP epidermis development
24	1e-13	18 / 516	GSE/ SMID_BREAST_CANCER_LUMINAL_B_DN
25	2e-13	16 / 374	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN
26	2e-13	11 / 113	GSE/ SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_DN
27	1e-12	14 / 282	GSE/ SMID_BREAST_CANCER_RELAPSE_IN_BONE_DN
28	4e-12	30 / 2239	CC extracellular exosome
29	7e-12	9 / 76	CC intermediate filament
30	2e-11	9 / 83	GSE/ RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATELY_DN
31	2e-11	21 / 1029	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_UP
32	3e-11	16 / 527	Refer PROTEINATLAS_oral_mucosa
33	4e-11	11 / 178	GSE/ WU_CELL_MIGRATION
34	4e-11	8 / 59	Melar TCGA_melanoma_keratin_high
35	5e-11	10 / 134	GSE/ SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN
36	5e-11	8 / 61	GSE/ CHANG_IMMORTALIZED_BY_HPV31_DN
37	7e-11	17 / 648	GSE/ KOINUMA_TARGETS_OF_SMAD2_OR_SMAD3
38	9e-11	15 / 474	Refer PROTEINATLAS_vagina
39	2e-10	6 / 23	CC desmosome
40	3e-10	12 / 282	GSE/ RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN

Overview Map

Spot



Aging Rank	p-value	#in/all	Geneset
1	1	0 / 92	HORVATH_aging_genes_meth_DOWN
2	1	0 / 107	HORVATH_aging_genes_meth_UP
3	1	0 / 47	TESCHENDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

BP Rank	p-value	#in/all	Geneset
1	3e-35	21 / 78	cornification
2	1.4e-25	20 / 72	keratinization
3	7e-16	10 / 46	keratinocyte differentiation
4	6e-14	8 / 28	peptide cross-linking
5	1e-13	10 / 74	epidermis development
6	1e-06	7 / 146	cytoskeleton organization
7	3e-07	6 / 104	cell-cell adhesion
8	8e-06	3 / 11	hemidesmosome assembly
9	9e-06	4 / 36	skin development
10	1e-05	5 / 78	wound healing
11	2e-04	4 / 78	negative regulation of peptidase activity
12	7e-12	2 / 11	regulation of ventricular cardiac muscle cell action potential
13	1e-03	1 / 14	intermediate filament organization
14	2e-03	2 / 16	morphogenesis of an epithelium
15	2e-03	2 / 17	hair follicle morphogenesis

Cancer Rank	p-value	#in/all	Geneset
1	7e-06	0 / 14	LIU_PROSTATE_CANCER_DN
2	3e-02	5 / 480	Lembcke_Colonc_Inflammation
3	6e-02	4 / 409	Lembcke_Normal_vs_Adenoma
4	9e-02	2 / 134	PanCan_RAS_geneset_nanostring
5	2e-01	2 / 187	PanCan_PI3K_geneset_nanostring
6	2e-01	1 / 45	KUIJER_MM_poor_survival
7	3e-01	1 / 113	PanCan_Driver_Gene_geneset_nanostring
8	4e-01	1 / 130	PanCan_CC+Apoc_geneset_nanostring
9	4e-01	1 / 147	PanCan_MAPK_geneset_nanostring
10	1e+00	0 / 15	RHODES_CANCER_META_SIGNATURE
11	1e+00	0 / 15	RHODES_UNDIFFERENTIATED_CANCER
12	1e+00	0 / 16	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN
13	1e+00	0 / 14	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
14	1e+00	0 / 12	LIU_BREAST_CANCER
15	1e+00	0 / 14	LIU_COMMON_CANCER_GENES

CC Rank	p-value	#in/all	Geneset
1	1e-21	12 / 35	cornified envelope
2	4e-12	30 / 2239	extracellular exosome
3	7e-12	4 / 76	intermediate filament
4	2e-10	6 / 23	desmosome
5	5e-10	6 / 27	keratin filament
6	3e-04	9 / 595	cell junction
7	5e-04	3 / 411	intermediate filament cytoskeleton
8	2e-03	14 / 1611	extracellular region
9	2e-03	3 / 73	cell-cell adherens junction
10	3e-03	21 / 3210	plasma membrane
11	7e-03	6 / 462	cell surface
12	1e-02	2 / 43	intercalated disc
13	2e-02	22 / 3805	cytosol
14	2e-02	2 / 56	specific granule lumen
15	4e-02	1 / 10	faschia adherens

Chr Rank	p-value	#in/all	Geneset
1	0.008	11 / 1325	Chr 1
2	0.031	3 / 184	Chr 18
3	0.145	4 / 146	Chr 16
4	0.157	3 / 369	Chr 20
5	0.159	5 / 776	Chr 17
6	0.261	4 / 700	Chr 12
7	0.536	2 / 480	Chr 4
8	0.538	3 / 755	Chr 11
9	0.548	2 / 490	Chr 10
10	0.597	1 / 242	Chr 10
11	0.718	2 / 669	Chr 6
12	0.763	1 / 382	Chr 15
13	0.782	1 / 133	Chr 14
14	0.808	1 / 437	Chr 8
15	0.824	2 / 832	Chr 2

Cancer Rank	p-value	#in/all	Geneset
1	2e-06	22 / 2148	10_ReprPC_Skeletal_Muscle
2	3e-06	21 / 1984	10_ReprPC_Melanocytes
3	3e-06	20 / 2375	10_ReprPC_Fibroblasts
4	7e-05	27 / 3734	Tcells_peripheral_blood_13_ReprPC
5	2e-04	19 / 2254	10_ReprPC_MSC_Adipocyte
6	6e-04	16 / 1813	8_EnhP_Fibroblasts
7	6e-04	19 / 2417	9_ReprPCWk_Melanocytes
8	6e-04	10 / 808	Mid_Frontal_Lobe_TssP
9	7e-04	21 / 2867	9_ReprPCWk_MSC_Adipocyte
10	1e-02	16 / 2408	9_ReprPCWk_Skeletal_Muscle
11	2e-02	4 / 258	Mid_Frontal_Lobe_TxTrans
12	2e-02	15 / 2405	Bcells_peripheral_blood_13_ReprPC
13	3e-02	11 / 1611	natural killer cells peripheral_blood_11_BivFlnk
14	3e-02	16 / 2724	Tcells_peripheral_blood_11_BivFlnk
15	3e-02	11 / 1634	8_EnhP_Melanocytes

Chromatin states Rank	p-value	#in/all	Geneset
1	2e-06	22 / 2148	10_ReprPC_Skeletal_Muscle
2	3e-06	21 / 1984	10_ReprPC_Melanocytes
3	3e-06	20 / 2375	10_ReprPC_Fibroblasts
4	7e-05	27 / 3734	Tcells_peripheral_blood_13_ReprPC
5	2e-04	19 / 2254	10_ReprPC_MSC_Adipocyte
6	6e-04	16 / 1813	8_EnhP_Fibroblasts
7	6e-04	19 / 2417	9_ReprPCWk_Melanocytes
8	6e-04	10 / 808	Mid_Frontal_Lobe_TssP
9	7e-04	21 / 2867	9_ReprPCWk_MSC_Adipocyte
10	1e-02	16 / 2408	9_ReprPCWk_Skeletal_Muscle
11	2e-02	4 / 258	Mid_Frontal_Lobe_TxTrans
12	2e-02	15 / 2405	Bcells_peripheral_blood_13_ReprPC
13	3e-02	11 / 1611	natural killer cells peripheral_blood_11_BivFlnk
14	3e-02	16 / 2724	Tcells_peripheral_blood_11_BivFlnk
15	3e-02	11 / 1634	8_EnhP_Melanocytes

Chromatin states Rank	p-value	#in/all	Geneset
1	2e-06	22 / 2148	10_ReprPC_Skeletal_Muscle
2	3e-06	21 / 1984	10_ReprPC_Melanocytes
3	3e-06	20 / 2375	10_ReprPC_Fibroblasts
4	7e-05	27 / 3734	Tcells_peripheral_blood_13_ReprPC
5	2e-04	19 / 2254	10_ReprPC_MSC_Adipocyte
6	6e-04	16 / 1813	8_EnhP_Fibroblasts
7	6e-04	19 / 2417	9_ReprPCWk_Melanocytes
8	6e-04	10 / 808	Mid_Frontal_Lobe_TssP
9	7e-04	21 / 2867	9_ReprPCWk_MSC_Adipocyte
10	1e-02	16 / 2408	9_ReprPCWk_Skeletal_Muscle
11	2e-02	4 / 258	Mid_Frontal_Lobe_TxTrans
12	2e-02	15 / 2405	Bcells_peripheral_blood_13_ReprPC
13	3e-02	11 / 1611	natural killer cells peripheral_blood_11_BivFlnk
14	3e-02	16 / 2724	Tcells_peripheral_blood_11_BivFlnk
15	3e-02	11 / 1634	8_EnhP_Melanocytes

Colon Cancer Rank	p-value	#in/all	Geneset
1	6e-08	12 / 448	Lembcke_TCGA_meth_kmeans_J_CIMP_H_DN
2	1e-07	12 / 483	Lembcke_TCGA_expr_kmeans_H_CIMP_H_UP_Cluster3_DN
3	6e-07	11 / 452	Lembcke_TCGA_expr_kmeans_L_CIMP_H_UP_Cluster4_DN
4	3e-04	3 / 36	Ang_CRC_Hypomethylated
5	1e-02	5 / 376	Lembcke_TCGA_expr_kmeans_M_CIMP_H_DN
6	2e-02	5 / 397	Pentrack_CRC_TCGA_corr_C_normal_UP
7	4e-02	1 / 10	Budinska_E_Mixed_UP
8	7e-02	3 / 255	Kosinski_top_crypt_long_list
9	9e-02	1 / 24	Pentrack_CRC_TCGA_corr_S_normal_DN
10	9e-02	1 / 24	Ang_CRC_CIMP_H_vs_L_hypo
11	1e-01	1 / 43	Marisa_CRC_cluster_f
12	2e-01	1 / 49	Pentrack_CRC_TCGA_corr_N_msi-h_DN
13	2e-01	4 / 602	Pentrack_CRC_TCGA_corr_R_normal_DN
14	2e-01	5 / 883	LaPointe_mucosa-position_kmeans_L_transverse_colon_cecum_colon_DN
15	3e-01	1 / 92	Marisa_CRC_cluster_h

Glioma Rank	p-value	#in/all	Geneset
1	1e-14	29 / 1652	Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
2	3e-07	11 / 414	Hopp_Sturm_GBM_Epi3_A_adult_fetus_UP_G34_DN
3	7e-06	8 / 273	Hopp_Sturm_GBM_Epi3_B_adult_UP_G34_DN
4	3e-04	3 / 36	Christensen_hypomethylated_in_ependymoma
5	8e-04	3 / 76	Christensen_hypomethylated_in_primary_glioblastoma
6	2e-03	4 / 144	Christensen_hypomethylated_in_grade2_oligodendroglioma
7	4e-03	3 / 86	Sturm_GBM_Meth_overexpression_B_adult_UP
8	4e-03	3 / 87	Christensen_hypomethylated_in_secondary_glioblastoma
9	9e-03	3 / 114	Christensen_hypomethylated_in_grade2_oligoastrocytoma
10	1e-02	3 / 132	Christensen_hypomethylated_in_grade3_oligoastrocytoma
11	1e-02	1 / 4	Martinez_GliC_hypometh
12	2e-02	2 / 53	Christensen_hypomethylated_in_primary_glioblastoma
13	2e-02	2 / 61	Christensen_hypomethylated_in_secondary_glioblastoma
14	4e-02	1 / 10	WILLSCHEER_GBM_LTSw_proteomics-G_UP
15	4e-02	2 / 82	latfaiire_hypometh_LGG_vs_control

GSEA C2 Rank	p-value	#in/all	Geneset
1	3e-46	33 / 248	JAEGER_METASTASIS_DN
2	5e-39	34 / 453	ONDER_CDH1_TARGETS_2_DN
3	2e-26	15 / 46	BOSCO_EPITHELIAL_DIFFERENTIATION_MODULE
4	2e-20	22 / 422	DYSPLASIA_THYROID_CANCER_UP
5	2e-17	16 / 208	RICKMANN_METASTASIS_DN
6	5e-16	12 / 93	CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_UP
7	7e-16	21 / 608	SMID_BREAST_CANCER_BASAL_UP
8	2e-15	10 / 51	HUPPER_BREAST_CANCER_VS_LUMINAL_UP
9	6e-15	11 / 82	LIU_SILENCED_BY_TUMOR_MICROENVIRONMENT
10	7e-15	11 / 57	ONDER_CDH1_TARGETS_3_DN
11	3e-14	8 / 26	AIGNER_ZEB1_TARGETS
12	8e-14	9 / 47	CROMER_TUMORIGENESIS_DN
13	9e-14	15 / 294	LEI_MYB_TARGETS
14	1e-13	18 / 516	SMID_BREAST_CANCER_LUMINAL_B_DN
15	2e-13	16 / 374	CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN

GSEA C2 Rank	p-value	#in/all	Geneset
1	3e-46	33 / 248	JAEGER_METASTASIS_DN
2	5e-39	34 / 453	ONDER_CDH1_TARGETS_2_DN
3	2e-26	15 / 46	BOSCO_EPITHELIAL_DIFFERENTIATION_MODULE
4	2e-20	22 / 422	DYSPLASIA_THYROID_CANCER_UP
5	2e-17	16 / 208	RICKMANN_METASTASIS_DN
6	5e-16	12 / 93	CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_UP
7	7e-16	21 / 608	SMID_BREAST_CANCER_BASAL_UP
8	2e-15	10 / 51	HUPPER_BREAST_CANCER_VS_LUMINAL_UP
9	6e-15	11 / 82	LIU_SILENCED_BY_TUMOR_MICROENVIRONMENT
10	7e-15	11 / 57	ONDER_CDH1_TARGETS_3_DN
11	3e-14	8 / 26	AIGNER_ZEB1_TARGETS
12	8e-14	9 / 47	CROMER_TUMORIGENESIS_DN
13	9e-14	15 / 294	LEI_MYB_TARGETS
14	1e-13	18 / 516	SMID_BREAST_CANCER_LUMINAL_B_DN
15	2e-13	16 / 374	CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN

GSEA C2 Rank	p-value	#in/all	Geneset
1	3e-46	33 / 248	JAEGER_METASTASIS_DN
2	5e-39	34 / 453	ONDER_CDH1_TARGETS_2_DN
3	2e-26	15 / 46	BOSCO_EPITHELIAL_DIFFERENTIATION_MODULE
4	2e-20	22 / 422	DYSPLASIA_THYROID_CANCER_UP
5	2e-17	16 / 208	RICKMANN_METASTASIS_DN
6	5e-16	12 / 93	CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_UP
7	7e-16	21 / 608	SMID_BREAST_CANCER_BASAL_UP
8	2e-15	10 / 51	HUPPER_BREAST_CANCER_VS_LUMINAL_UP
9	6e-15	11 / 82	LIU_SILENCED_BY_TUMOR_MICROENVIRONMENT
10	7e-15	11 / 57	ONDER_CDH1_TARGETS_3_DN
11	3e-14	8 / 26	AIGNER_ZEB1_TARGETS
12	8e-14	9 / 47	CROMER_TUMORIGENESIS_DN
13	9e-14	15 / 294	LEI_MYB_TARGETS
14	1e-13	18 / 516	SMID_BREAST_CANCER_LUMINAL_B_DN
15	2e-13	16 / 374	CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN

LM Rank	p-value	#in/all	Geneset
1	5e-07	8 / 195	HALLMARK_KRAS_SIGNALING_DN
2	7e-06	7 / 193	HALLMARK_ESTROGEN_RESPONSE_LATE
3	7e-05	6 / 191	HALLMARK_P53_PATHWAY
4	6e-03	4 / 194	HALLMARK_ESTROGEN_RESPONSE_EARLY
5	1e-01	1 / 34	HALLMARK_APICAL_SURFACE
6	1e-01	2 / 127	HALLMARK_APICAL_JUNCTION
7	1e-01	2 / 182	HALLMARK_GLYCOLYSIS
8	2e-01	2 / 194	HALLMARK_KRAS_SIGNALING_UP
9	3e-01	1 / 97	HALLMARK_PI3K_AKT_MTOR_SIGNALING
10	4e-01	1 / 130	HALLMARK_COAGULATION
11	5e-01	1 / 146	HALLMARK_ILV_RESPONSE_UP
12	5e-01	1 / 170	HALLMARK_IL2_STATS_SIGNALING
13	5e-01	1 / 178	HALLMARK_COMPLEMENT
14	5e-01	1 / 190	HALLMARK_TNFA_SIGNALING_VIA_NFKB
15	5e-01	1 / 194	HALLMARK_MYOGENESIS

Immunome Rank	p-value	#in/all	Geneset
1	0.002	2 / 19	Angelova Immune-metagene-IDC
2	0.102	2 / 29	Angelova Immune-metagene-Th1
3	0.132	1 / 38	Angelova Immune-metagene-mast-cells
4	1.000	0 / 13	Angelova Immune-metagene-activated_B-cells
5	1.000	0 / 26	Angelova Immune-metagene-activated_CD4
6	1.000	0 / 19	Angelova Immune-metagene-activated_CD8
7	1.000	0 / 21	Angelova Immune-metagene-central_memory_CD4
8	1.000	0 / 17	Angelova Immune-metagene-central_memory_CD8
9	1.000	0 / 7	Angelova Immune-metagene-cytotoxic_cells
10	1.000	0 / 25	Angelova Immune-metagene-DC
11	1.000	0 / 12	Angelova Immune-metagene-activated_CD8
12	1.000	0 / 32	Angelova Immune-metagene-effector_memory_CD8
13	1.000	0 / 14	Angelova Immune-metagene-eosinophil
14	1.000	0 / 13	Angelova Immune-metagene-immature_B-cells
15	1.000	0 / 11	Angelova Immune-metagene-macrophages

Immunome Rank	p-value	#in/all	Geneset
1	0.002	2 / 19	Angelova Immune-metagene-IDC
2	0.102	2 / 29	Angelova Immune-metagene-Th1
3	0.132	1 / 38	Angelova Immune-metagene-mast-cells
4	1.000	0 / 13	Angelova Immune-metagene-activated_B-cells
5	1.000	0 / 26	Angelova Immune-metagene-activated_CD4
6	1.000	0 / 19	Angelova Immune-metagene-activated_CD8
7	1.000	0 / 21	Angelova Immune-metagene-central_memory_CD4
8	1.000	0 / 17	Angelova Immune-metagene-central_memory_CD8
9	1.000	0 / 7	Angelova Immune-metagene-cytotoxic_cells
10	1.000	0 / 25	

Overexpression Spots

Spot Summary: D

metagenes = 5
genes = 69

<r> metagenes = 0.97
<r> genes = 0.13
beta: r2= 0.2 / log p= -11.38

samples with spot = 1 (0.5 %)
mBL : 1 (2.3 %)

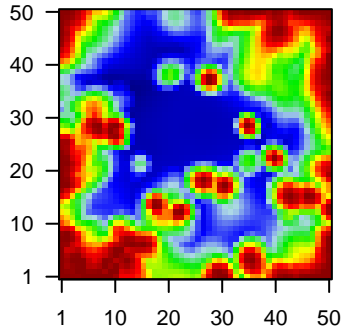
Spot Genelist

Rank	ID	max e	r	min e	Description
1	210487_at	2.85	-0.57	0.66	DNTT DNA nucleotidylexotransferase [Source:HGNC Symbol;Acc:H
2	220389_at	2.51	-0.53	0.64	CCDC81 coiled-coil domain containing 81 [Source:HGNC Symbol;Acc
3	216840_s_at	2.51	-0.6	0.54	LAMA2 laminin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:6
4	219564_at	2.44	-0.48	0.44	KCNJ16 potassium voltage-gated channel subfamily J member 16 [Sc
5	213519_s_at	2.31	-1.09	0.45	LAMA2 laminin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:6
6	206674_at	2.26	-0.64	0.46	FLT3 fms related tyrosine kinase 3 [Source:HGNC Symbol;Acc:HG
7	203354_s_at	2.26	-0.57	0.61	PSD3 pleckstrin and Sec7 domain containing 3 [Source:HGNC Syrr
8	206771_at	2.25	-0.74	0.34	UPK3A uroplakin 3A [Source:HGNC Symbol;Acc:HGNC:12580]
9	203726_s_at	2.24	-0.76	0.51	LAMA3 laminin subunit alpha 3 [Source:HGNC Symbol;Acc:HGNC:6
10	206591_at	2.18	-0.65	0.54	RAG1 recombination activating 1 [Source:HGNC Symbol;Acc:HGNC
11	212113_at	2.1	-0.88	0.3	ATXN7L3 ataxin 7 like 3B [Source:HGNC Symbol;Acc:HGNC:37931]
12	214539_at	2.07	-0.69	0.31	SERPINC1 serpin family B member 10 [Source:HGNC Symbol;Acc:HGNC
13	210473_s_at	2.05	-0.69	0.4	ADGRA3 adhesion G protein-coupled receptor A3 [Source:HGNC Syrr
14	214761_at	2.04	-0.75	0.49	ZNF423 zinc finger protein 423 [Source:HGNC Symbol;Acc:HGNC:16
15	211341_at	2.01	-0.78	0.34	POU4F1 POU class 4 homeobox 1 [Source:HGNC Symbol;Acc:HGNC
16	217056_at	1.98	-0.73	0.45	T cell receptor alpha variable 36/delta variable 7 [Source:HGNC
17	213880_at	1.92	-0.59	0.53	LGR5 leucine rich repeat containing G protein-coupled receptor 5 [!
18	209195_s_at	1.9	-0.91	0.42	ADCY6 adenylate cyclase 6 [Source:HGNC Symbol;Acc:HGNC:237]
19	206067_s_at	1.89	-0.57	0.48	WT1 Wilms tumor 1 [Source:HGNC Symbol;Acc:HGNC:12796]
20	206089_at	1.87	-0.45	0.5	NELL1 neural EGFL like 1 [Source:HGNC Symbol;Acc:HGNC:7750]

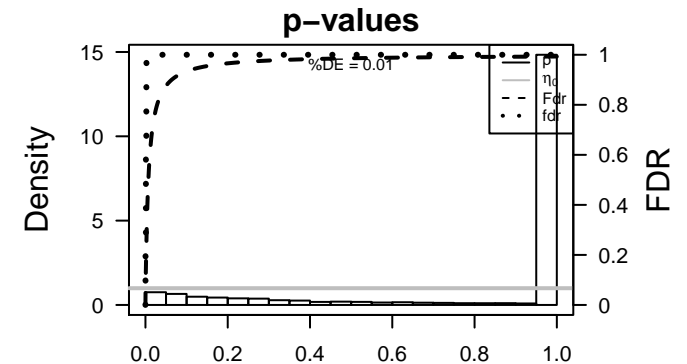
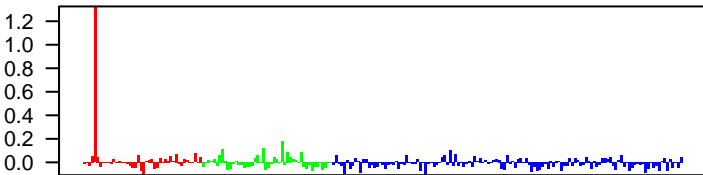
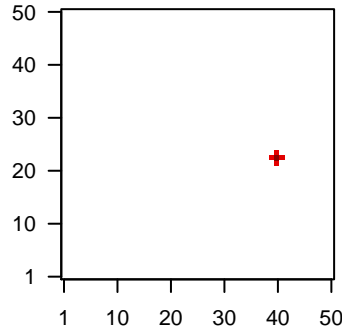
Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	9e-08	11 / 275	GSE/ HADDAD_B_LYMPHOCYTE_PROGENITOR
2	2e-06	50 / 6368	Colon LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
3	8e-06	32 / 3168	LympI HOPP_Repressed
4	6e-05	22 / 1894	LympI HOPP_Poised_promoter
5	7e-05	7 / 209	GSE/ BROWNE_HCMV_INFECTION_1HR_DN
6	1e-04	4 / 49	BP cellular response to cytokine stimulus
7	1e-04	3 / 19	Refer JONGENEEL_Thymus
8	3e-04	4 / 65	GSE/ MORI_MATURE_B_LYMPHOCYTE_DN
9	4e-04	3 / 29	BP positive regulation of bone mineralization
10	6e-04	3 / 33	miRN hsa-miR-588
11	6e-04	4 / 78	GSE/ ROSS_ACUTE_MYELOID_LEUKEMIA_CBF
12	6e-04	4 / 80	GSE/ PID_CMYB_PATHWAY
13	7e-04	4 / 83	GSE/ SMID_BREAST_CANCER_LUMINAL_A_UP
14	8e-04	5 / 148	MF ubiquitin protein ligase activity
15	8e-04	2 / 9	GSE/ REACTOME_PROSTANOID_LIGAND_RECEPTORS
16	9e-04	6 / 227	BP regulation of molecular function
17	1e-03	6 / 234	GSE/ VERHAAK_AML_WITH_NPM1_MUTATED_DN
18	1e-03	2 / 10	CC intrinsic component of the cytoplasmic side of the plasma membrane
19	1e-03	2 / 10	GSE/ PID_INTEGRIN4_PATHWAY
20	1e-03	2 / 10	GSE/ SHANK_TAL1_TARGETS_DN
21	1e-03	3 / 41	GSE/ PID_A6B1_A6B4_INTEGRIN_PATHWAY
22	1e-03	5 / 168	BP regulation of gene expression
23	2e-03	2 / 12	BP regulation of embryonic development
24	2e-03	2 / 12	CancI BENTINK_e2f3.2
25	2e-03	2 / 13	BP dentate gyrus development
26	2e-03	2 / 13	BP negative regulation of cell migration involved in sprouting angiogenesis
27	2e-03	2 / 13	GSE/ REACTOME_EICOSANOID_LIGAND_BINDING_RECEPTORS
28	2e-03	10 / 697	GSE/ BENPORATH_SUZ12_TARGETS
29	2e-03	2 / 14	MF C2H2 zinc finger domain binding
30	2e-03	15 / 1361	BP signal transduction
31	2e-03	1 / 16	CancI SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN
32	2e-03	1 / 16	CancI SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN
33	2e-03	2 / 15	BP sympathetic nervous system development
34	2e-03	7 / 376	Color Lembcke_TCGA-expr_kmeans_M_CIMP_H_DN
35	2e-03	9 / 595	BP G-protein coupled receptor signaling pathway
36	3e-03	6 / 283	GSE/ CHYLA_CBFA2T3_TARGETS_UP
37	3e-03	4 / 121	GSE/ RODWELL_AGING_KIDNEY_DN
38	3e-03	2 / 17	BP cellular response to prostaglandin E stimulus
39	3e-03	2 / 17	BP regulation of long-term neuronal synaptic plasticity
40	3e-03	7 / 394	GSE/ YAGI_AML_WITH_INV_16_TRANSLOCATION

Overview Map



Spot



Rank	p-value	#in/all	Geneset
1	0.4	1 / 107	HORVATH_aging_genes_meth_UP
2	1.0	0 / 82	HORVATH_aging_genes_meth_DOWN
3	1.0	0 / 47	TESCHENDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Rank	p-value	#in/all	Geneset
1	0.001	2 / 10	intrinsic component of the cytoplasmic side of the plasma membrane
2	0.005	2 / 22	cellular base
3	0.030	1 / 90	nuclear matrix
4	0.011	8 / 623	cell projection
5	0.011	6 / 382	synapse
6	0.016	32 / 4701	cytoplasm
7	0.025	2 / 50	extrinsic component of membrane
8	0.030	23 / 3210	plasma membrane
9	0.041	2 / 65	voltage-gated potassium channel complex
10	0.042	2 / 66	basement membrane
11	0.053	1 / 11	Cul4A-NR1E3 ubiquitin ligase complex
12	0.054	3 / 174	postsynaptic membrane
13	0.059	33 / 5339	membrane
14	0.067	1 / 14	basal lamina
15	0.067	1 / 14	cyclin-dependent protein kinase holoenzyme complex

Rank	p-value	#in/all	Geneset
1	2e-06	50 / 6368	LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP_
2	2e-03	7 / 376	Lembcke_TCGA_expr_kmeans_M_CIMP_H_DN
3	5e-03	6 / 318	Lembcke_TCGA_meth_kmeans_E_CIMP_H_UP
4	3e-02	8 / 738	Lembcke_TCGA_expr_kmeans_N_CIMP_H_DN
5	3e-02	7 / 349	Lembcke_TCGA_meth_kmeans_F_CIMP_H_UP
6	5e-02	6 / 532	LaPointe_mucosa-position_kmeans_B_ascending_colon_transverse_colon_UI
7	5e-02	2 / 72	Ang_CRC-CIMP_H-vs-L_hypr
8	6e-02	2 / 77	Ang_CRC_Hypermethylated
9	6e-02	8 / 848	LaPointe_mucosa-position_kmeans_O_transverse_colon_UP_
10	1e-02	1 / 12	Juehling_HNPCC-mutated-in-4
11	9e-02	1 / 20	Kosinski_top-crypt-short-list
12	1e-01	8 / 958	LaPointe_mucosa-position_kmeans_D_transverse_colon_UP_
13	3e-01	6 / 883	LaPointe_mucosa-position_kmeans_L_transverse_colon_cecum_colon_DN
14	3e-01	2 / 221	Lembcke_TCGA_meth_kmeans_A_Cluster4_DN
15	4e-01	6 / 1001	LaPointe_mucosa-position_kmeans_H_cecum_colon_ascending_colon_UP_

Rank	p-value	#in/all	Geneset
1	0.01	2 / 35	HALLMARK_HEDGEHOG_SIGNALING
2	0.08	2 / 96	HALLMARK_ANDROGEN_RESPONSE
3	0.17	2 / 150	HALLMARK_APOPTOSIS
4	0.17	1 / 38	HALLMARK_WNT_BETA_CATENIN_SIGNALING
5	0.21	2 / 173	HALLMARK_MITOTIC_SPINDL
6	0.21	1 / 174	HALLMARK_APICAL_JUNCTION
7	0.22	1 / 51	HALLMARK_TGF_BETA_SIGNALING
8	0.24	2 / 190	HALLMARK_TNFA_SIGNALING_VIA_NFKB
9	0.24	2 / 191	HALLMARK_P53_PATHWAY
10	0.25	2 / 193	HALLMARK_HEME_METABOLISM
11	0.25	2 / 194	HALLMARK_ESTROGEN_RESPONSE_EARLY
12	0.25	2 / 194	HALLMARK_MYOGENESIS
13	0.25	2 / 196	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
14	0.34	1 / 85	HALLMARK_IL6_JAK_STAT3_SIGNALING
15	0.41	1 / 106	HALLMARK_UNFOLDED_PROTEIN_RESPONSE

Rank	p-value	#in/all	Geneset
1	8e-06	32 / 3168	HOPP_Repressed
2	6e-05	22 / 1894	HOPP_Poised_promoter
3	2e-02	3 / 189	Subero_INT_hypr_meth
4	3e-02	3 / 132	Subero_DLBCl_expr_meth
5	4e-02	2 / 66	Hopp_Lymphoma_Epi1_with_zentr_i_B.cell_DN
6	5e-02	1 / 10	MASCQUE_ABC_UP
7	6e-02	1 / 13	Hopp_Lymphoma_Epi1_with_zentr_ii_MCL_mBL_UP
8	3e-02	2 / 0	Sha_BL_UP
9	1e-01	3 / 237	ZHANG_DLBCl_mutated
10	1e-01	1 / 24	Hopp_Lymphoma_Epi1_no_zentr_2_B.cell_MCL_DN
11	1e-01	1 / 26	DAVE_Immune_response_1
12	2e-01	1 / 35	Subero_MM_hypr_meth
13	2e-01	12 / 1814	HOPP_Repressed
14	2e-01	1 / 41	ROSLOWSKI_blue_DOWN
15	2e-01	1 / 54	Hopp_Lymphoma_Epi1_no_zentr_1_B.cell_DN

Rank	p-value	#in/all	Geneset
1	6e-04	3 / 33	hsa-miR-588
2	1e-02	3 / 90	hsa-miR-22
3	1e-02	2 / 31	hsa-miR-661
4	2e-04	5 / 320	hsa-miR-519a
5	3e-02	2 / 52	hsa-miR-1278
6	3e-02	3 / 136	hsa-miR-511
7	3e-02	2 / 59	hsa-miR-643
8	4e-02	1 / 8	hsa-miR-639
9	4e-02	3 / 65	hsa-miR-557
10	4e-02	3 / 159	hsa-miR-568
11	5e-02	2 / 75	hsa-miR-10b
12	6e-02	2 / 78	hsa-miR-133b
13	6e-02	2 / 79	hsa-miR-133a
14	6e-02	5 / 435	hsa-miR-93
15	6e-02	3 / 185	hsa-miR-182

Rank	p-value	#in/all	Geneset
1	0.1	0 / 13	Alternative lengthening of telomeres
2	1	0 / 27	Nabeta1n_alt_len_telomeres_genes_ko
3	NA	0 / 0	
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Rank	p-value	#in/all	Geneset
1	1e-04	4 / 48	cellular response to cytokine stimulus
2	4e-04	3 / 29	positive regulation of bone mineralization
3	9e-04	6 / 227	regulation of molecular function
4	1e-03	5 / 168	regulation of gene expression
5	2e-03	2 / 12	regulation of embryonic development
6	2e-03	2 / 13	dentate gyrus development
7	2e-03	2 / 13	negative regulation of cell migration involved in sprouting angiogenesis
8	2e-03	15 / 1361	signal transduction
9	2e-03	2 / 15	sympathetic nervous system development
10	2e-03	9 / 595	G-protein coupled receptor signaling pathway
11	3e-03	2 / 17	cellular response to prostaglandin E stimulus
12	4e-03	2 / 17	regulation of long-term neuronal plasticity
13	4e-03	3 / 64	B cell differentiation
14	4e-03	2 / 19	adrenal gland development
15	5e-03	2 / 21	peripheral nervous system development

Rank	p-value	#in/all	Geneset
1	0.03	4 / 242	Chr 13
2	0.03	8 / 756	Chr 11
3	0.03	6 / 630	Chr 10
4	0.21	4 / 480	Chr 4
5	0.23	2 / 184	Chr 18
6	0.29	3 / 382	Chr 15
7	0.32	3 / 403	Chr 14
8	0.33	5 / 776	Chr 17
9	0.42	4 / 689	Chr 6
10	0.45	4 / 700	Chr 12
11	0.49	2 / 333	Chr 22
12	0.52	3 / 554	Chr 5
13	0.53	2 / 369	Chr 20
14	0.64	2 / 437	Chr 8
15	0.65	6 / 1325	Chr 1

Rank	p-value	#in/all	Geneset
1	0.008	11 / 979	Hopp_Sturm_GBM_Epi3_no_zentr_5_IDH_UP_fetus_adult_DN
2	0.015	5 / 264	Hopp_Sturm_GBM_Epi3_no_zentr_3_RTK_II_UP_adult_fetus_K27_DN
3	0.023	2 / 48	in vivo astrocytes vs. cultured astroglia
4	0.031	4 / 242	GIZEL3_GBM_STS_down_VS_LTS
5	0.037	2 / 78	GIZEL3_GBM_STS_down_VS_LTS
6	0.062	11 / 1343	Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
7	0.068	3 / 191	Scov_0_5_Sturm_C2_RTK_I_PDGFRRA_DN
8	0.071	1 / 15	Gorovets_LGG_NB_subclass
9	0.076	1 / 16	VERHAAR_C1_subtype
10	0.089	1 / 21	WIRSCHER_GBM_Verhaak-PNmut_down(G)
11	0.099	1 / 21	Hopp_Sturm_GBM_Epi3_B1_G34_DN
12	0.103	1 / 22	Martinez_Glio_hypermeth
13	0.103	1 / 22	Sturm_GBM_Meth_overexpression_H_K27_UP
14	0.120	2 / 121	Hopp_Sturm_GBM_Epi3_F_RTK_II_UP_adult_fetus_K27_DN
15	0.124	11 / 1523	Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN

Rank	p-value	#in/all	Geneset
1	0.3	1 / 67	Angelova_immune-metagene-T-cells
2	0.13	0 / 13	Angelova_immune-metagene-activated_B-cells
3	0.26	0 / 26	Angelova_immune-metagene-activated_CD4
4	0.19	0 / 19	Angelova_immune-metagene-activated_CD8
5	0.21	0 / 21	Angelova_immune-metagene-central_memory_CD4
6	0.17	0 / 17	Angelova_immune-metagene-central_memory_CD8
7	0.7	0 / 7	Angelova_immune-metagene-cytotoxic_cells
8	0.25	0 / 25	Angelova_immune-metagene-DC
9	0.12	0 / 12	Angelova_immune-metagene-effector_memory_CD4
10	0.32	0 / 32	Angelova_immune-metagene-effector_memory_CD8
11	0.14	0 / 14	Angelova_immune-metagene-eosinophil
12	0.19	0 / 19	Angelova_immune-metagene-IDC
13	0.13	0 / 13	Angelova_immune-metagene-immature_B-cells
14	0.11	0 / 11	Angelova_immune-metagene-macrophages
15	0.38	0 / 38	Angelova_immune-metagene-mast-cells

Rank	p-value	#in/all	Geneset
1	0.008	5 / 249	Gerber_wt/wt_melanoma-cells-SpotE
2	0.167	1 / 37	Hugo_melanoma-all-MET_DN
3	0.223	1 / 51	Tirosh_genes_from_CD8_T_cells_in_Mel79-melanoma
4	0.229	4 / 497	Gerber_wt/wt_melanoma-cells-SpotD
5	0.253	1 / 59	TCGA_melanoma_keratin_high
6	0.271	1 / 64	Harbst_melanoma_lowgrade_up
7	0.313	2 / 230	Gerber_wt/wt_melanoma-cells-SpotC
8	0.320	1 / 32	Tirosh_expression_higher_in_CAFs_than_in_T-cells
9	0.446	1 / 119	TCGA_melanoma_MITF_low
10	0.638	1 / 204	Landsberg_dedifferentiation_down
11	0.691	1 / 236	Gerber_wt/wt_group3-specific
12	1.000	0 / 17	Hugo_melanoma-all-MET_UP
13	1.000	0 / 38	TCGA_melanoma-BRAFmut-MET_UP
14	1.000	0 / 5	TCGA_melanoma-BRAFmut-MET_DN
15	1.000	0 / 16	Hugo_melanoma-all-LEF1_UP

Rank	p-value	#in/all	Geneset
1	0.2	1 / 41	Scicluna_DN
2	0.2	1 / 56	Burnham_sep_vs_con_DN
3	0.2	1 / 57	Burnham_viral_UP
4	0.2	1 / 57	Burnham_day1_vs_5_UP
5	0.5	1 / 122	Terre_IMS_influenza_meta_signature
6	0.6	1 / 179	Terre_MSV_multiple_respiratory_viruses_dn
7	1.0	0 / 68	Burnham_sep_vs_con_UP
8	1.0	0 / 48	Burnham_cap_ip_vs_con_DN
9	1.0	0 / 71	Burnham_cap_ip_vs_con_UP
10	1.0	0 / 48	Burnham_viral_DN
11	1.0	0 / 52	Burnham_day1_vs_5_DN
12	1.0	0 / 54	Burnham_timecourse
13	1.0	0 / 18	Scicluna_UP
14	1.0	0 / 37	Sweeney_viral_up
15	1.0	0 / 33	Sweeney_viral_dn

Rank	p-value	#in/all	Geneset
1	0.1	9 / 1148	HEBENSTREIT_low_expression_TF
2	0.4	9 / 1636	ICGC_Bcl11_targets
3	0.5	8 / 1508	ICGC_Mef2_targets
4	0.5	10 / 1941	ICGC_Bcl3_targets
5	0.6	5 / 1041	ICGC_P300_targets
6	0.6	2 / 415	ICGC_RxraPcr1_targets
7	0.7	2 / 485	ICGC_Nr3Pcr2_targets
8	0.7	2 / 622	ICGC_SrfPcr2_targets
9	0.7	14 / 3213	ICGC_Pu1_targets
10	0.7	9 / 2254	ICGC_BatfPcr1_targets
11	0.8	7 / 1848	ICGC_Ikb3_targets
12	0.8	5 / 1387	HEBENSTREIT_high_expression_TF
13	0.9	3 / 1025	ICGC_Nr3Pcr1_targets
14	0.9	3 / 1032	ICGC_Usf1_targets
15	0.9	13 / 3435	ICGC_Ebts137065_targets

Rank	p-value	#in/all	Geneset
1	0.002	2 / 12	BENTINK_a2f3_2
2	0.002	1 / 16	SOTTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN
3	0.018	3 / 113	PanCan_Driver_Gene_geneset_nanostring
4	0.065	3 / 187	PanCan_P13K_geneset_nanostring
5	0.081	2 / 96	PanCan_TXMISReg_geneset_nanostring
6	0.116	1 / 25	PanCan_HH_geneset_nanostring
7	0.18	1 / 47	PanCan_TGFb_geneset_nanostring
8	0.249	1 / 58	SHAUGHNESSY_MM_high_risk
9	0.300	1 / 72	PanCan_Wnt_geneset_nanostring
10	0.475	1 / 130	PanCan_CC+Appo_geneset_nanostring
11	0.486	1 / 134	PanCan_RAS_geneset_nanostring
12	0.518	1 / 47	PanCan_MAPK_geneset_nanostring
13	0.603	2 / 409	Lembcke_Normal_vs_Adenoma
14	0.603	1 / 186	SPANG_LPS-index2
15	0.795	1 / 317	SPANG_BCL6-index2

Rank	p-value	#in/all	Geneset
1	1e-08	41 / 3825	Bcells_peripheral_blood_15_Quies
2	5e-08	35 / 3001	Bcells_peripheral_blood_14_ReprPCWk
3	1e-07	40 / 3918	monocytes_peripheral_blood_15_Quies
4	1e-07	40 / 3918	Tcells_peripheral_blood_14_ReprPCWk
5	2e-07	39 / 3819	natural_killer_cells_peripheral_blood_15_Quies
6	1e-06	31 / 2747	Bcells_peripheral_blood_12_EnhBiv
7	1e-06	37 / 3755	HSC-15_Quies
8	2e-06	32 / 2964	natural_killer_cells_peripheral_blood_14_ReprPCWk
9	3e-06	28 / 2405	Bcells_peripheral_blood_13_ReprPC
10	7e-06	28 / 2515	natural_killer_cells_peripheral_blood_13_ReprPC
11	8e-06	31 / 2993	monocytes_peripheral_blood_9_Het
12	1e-05	34 / 3540	Regulatory_cells_peripheral_blood_15_Quies
13	1e-05	35 / 3734	Tcells_peripheral_blood_13_ReprPC
14	2e-05	21 / 1611	natural_killer_cells_peripheral_blood_11_BivFink
15	2e-05	34 / 3616	Thelper_cells_peripheral_blood_15_Quies

Rank	p-value	#in/all	Geneset
1	9e-08	11 / 275	HADDD_B_LYMPHOCYTE_PROGENITOR
2	7e-05	7 / 209	BROWNE_HCMV_INFECTION_1HR_DN
3	3e-04	4 / 65	MORI_MATURE_B_LYMPHOCYTE_DN
4	6e-04	4 / 78	ROSS_ACUTE_MYELOID

Overexpression Spots

Spot Summary: E

metagenes = 11
genes = 131

<r> metagenes = 0.96
<r> genes = 0.25
beta: r2= 5.45 / log p= -Inf

samples with spot = 28 (12.7 %)
mBL : 20 (45.5 %)
intermediate : 7 (14.6 %)
non-mBL : 1 (0.8 %)

Spot Genelist

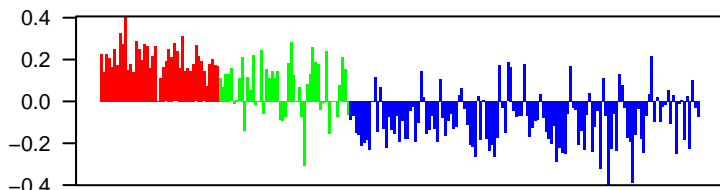
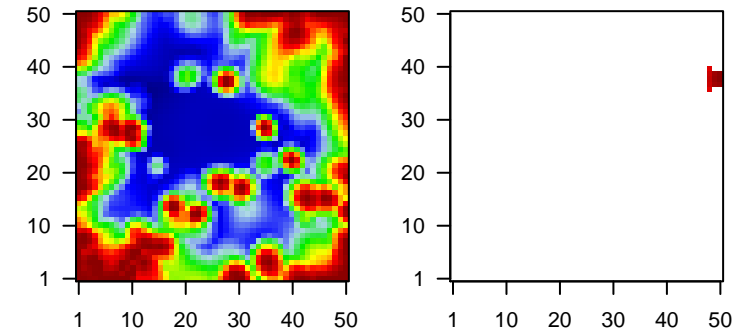
Rank	ID	max e	r	min e	Description
					Symbol
1	211998_at	1.94	-0.89	0.31	H3F3B H3 histone family member 3B [Source:HGNC Symbol;Acc:HGNC:10000]
2	213436_at	1.92	-1.49	0.45	CNR1 cannabinoid receptor 1 [Source:HGNC Symbol;Acc:HGNC:21000]
3	207216_at	1.5	-1.24	0.51	TNFSF8 TNF superfamily member 8 [Source:HGNC Symbol;Acc:HGNC:10000]
4	205901_at	1.48	-1.42	0.35	PNOC prepronociceptin [Source:HGNC Symbol;Acc:HGNC:9163]
5	210957_s_at	1.45	-1.17	0.56	AFF2 AF4/FMR2 family member 2 [Source:HGNC Symbol;Acc:HGNC:10000]
6	205505_at	1.41	-0.91	0.46	GCNT1 glucosaminyl (N-acetyl) transferase 1, core 2 [Source:HGNC Symbol;Acc:HGNC:10000]
7	213547_at	1.35	-0.78	0.32	CAND2 cullin associated and neddylation dissociated 2 (putative) [Source:HGNC Symbol;Acc:HGNC:10000]
8	212856_at	1.34	-1.11	0.34	GRAMD4GRAM domain containing 4 [Source:HGNC Symbol;Acc:HGNC:10000]
9	218434_s_at	1.28	-1.36	0.39	AACS acetoacetyl-CoA synthetase [Source:HGNC Symbol;Acc:HGNC:10000]
10	214820_at	1.23	-1.19	0.74	BRWD1 bromodomain and WD repeat domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10000]
11	204208_at	1.21	-1.1	0.66	RNGTT RNA guanylyltransferase and 5'-phosphatase [Source:HGNC Symbol;Acc:HGNC:10000]
12	212068_s_at	1.21	-1.69	0.33	PRRC2Bproline rich coiled-coil 2B [Source:HGNC Symbol;Acc:HGNC:10000]
13	220054_at	1.17	-1.18	0.39	IL23A interleukin 23 subunit alpha [Source:HGNC Symbol;Acc:HGNC:10000]
14	205306_x_at	1.17	-1.56	0.34	KMO kynurenine 3-monooxygenase [Source:HGNC Symbol;Acc:HGNC:10000]
15	209627_s_at	1.15	-1.47	0.48	OSBPL3 oxysterol binding protein like 3 [Source:HGNC Symbol;Acc:HGNC:10000]
16	211138_s_at	1.14	-1.53	0.36	KMO kynurenine 3-monooxygenase [Source:HGNC Symbol;Acc:HGNC:10000]
17	219582_at	1.13	-1.03	0.23	OGFRL1 opioid growth factor receptor like 1 [Source:HGNC Symbol;Acc:HGNC:10000]
18	217513_at	1.12	-0.9	0.4	MILR1 mast cell immunoglobulin like receptor 1 [Source:HGNC Symbol;Acc:HGNC:10000]
19	209712_at	1.12	-1.02	0.53	SLC35D1solute carrier family 35 member D1 [Source:HGNC Symbol;Acc:HGNC:10000]
20	213450_s_at	1.09	-1.3	0.41	LOC102723996

Geneset Overrepresentation

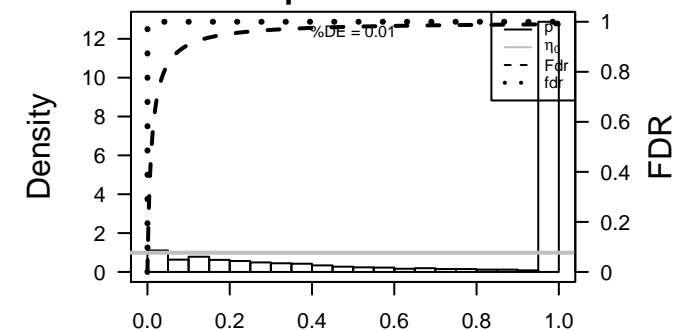
Rank	p-value	#in/all	Geneset
1	1e-13	87 / 5908	LympI HOPP_Active_promoter
2	4e-11	70 / 4357	LympI HOPP_Weak_txn
3	6e-11	81 / 5682	LympI HOPP_Weak_promoter
4	2e-10	79 / 5529	LympI HOPP_Txn_elongation
5	6e-10	77 / 5404	LympI HOPP_Strong_enhancer
6	8e-09	15 / 275	GSE/ HADDAD_B_LYMPHOCYTE_PROGENITOR
7	1e-08	67 / 4559	LympI HOPP_Weak_enhancer
8	2e-08	7 / 37	GSE/ ZHAN_MULTIPLE_MYELOMA_CD2_UP
9	4e-08	14 / 263	LympI SPANG_CD40_6hrs_UP
10	3e-06	19 / 673	GSE/ SCHLOSSER_SERUM_RESPONSE_DN
11	5e-06	22 / 906	LympI SPANG_BCR_DN
12	1e-05	12 / 310	Refer Chaussabel_3_4_Protein_phosphatases
13	1e-05	6 / 61	GSE/ BASSO_CD40_SIGNALING_DN
14	1e-05	10 / 216	miRN hsa-miR-548l
15	2e-05	14 / 442	GSE/ KIM_WT1_TARGETS_DN
16	3e-05	26 / 1329	MF transferase activity
17	4e-05	28 / 1523	Gliom Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
18	5e-05	19 / 830	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
19	6e-05	9 / 207	miRN hsa-miR-92b
20	7e-05	9 / 213	miRN hsa-miR-363
21	8e-05	10 / 268	miRN hsa-miR-367
22	8e-05	9 / 217	miRN hsa-miR-92a
23	9e-05	25 / 1343	Gliom Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
24	1e-04	5 / 56	miRN hsa-miR-618
25	1e-04	6 / 92	miRN hsa-miR-491-3p
26	1e-04	5 / 59	GSE/ HUTTMANN_B_CLL_POOR_SURVIVAL_DN
27	1e-04	6 / 96	HM HALLMARK_ANDROGEN_RESPONSE
28	2e-04	9 / 235	miRN hsa-miR-25
29	2e-04	12 / 417	GSE/ SHEN_SMARCA2_TARGETS_UP
30	2e-04	8 / 192	Lymp Victora_Dark_zone_signature
31	2e-04	11 / 361	GSE/ GARY_CD5_TARGETS_DN
32	3e-04	11 / 369	miRN hsa-miR-130a
33	3e-04	10 / 309	GSE/ DAZARD_RESPONSE_TO_UV_NHEK_DN
34	3e-04	12 / 437	Chr Chr 8
35	3e-04	3 / 16	BP negative regulation of T cell receptor signaling pathway
36	3e-04	19 / 955	Lymp SPANG_BCR_UP
37	3e-04	9 / 262	miRN hsa-miR-32
38	4e-04	10 / 322	GSE/ DAVICIONI_MOLECULAR_ARMES_VS_ERMS_UP
39	4e-04	53 / 4261	Lymp HOPP_Txn_transition
40	4e-04	15 / 669	Chr Chr 6

Overview Map

Spot



p-values



Aging Rank	p-value	#in/all	Geneset
1	0.2	2 / 107	HORVATH_aging_genes_meth UP
2	1.0	0 / 82	HORVATH_aging_genes_meth DOWN
3	1.0	0 / 47	TESCHENDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

CC Rank	p-value	#in/all	Geneset
1	0.01	2 / 19	synaptonemal complex
2	0.02	42 / 3805	cytosol
3	0.03	2 / 30	agresome
4	0.03	2 / 34	condensed nuclear chromosome
5	0.04	9 / 537	perinuclear region of cytoplasm
6	0.04	2 / 39	cell leading edge
7	0.05	6 / 310	dendrite
8	0.05	4 / 103	transcription factor complex
9	0.05	3 / 101	growth cone
10	0.05	2 / 45	chromosome, telomeric region
11	0.06	3 / 104	trans-Golgi network
12	0.06	7 / 416	macromolecular complex
13	0.07	2 / 48	microvillus
14	0.07	3 / 117	cell cortex
15	0.08	4 / 192	membrane raft

Colon Cancer Rank	p-value	#in/all	Geneset
1	0.004	15 / 848	LaPointe_mucosa-position_kmeans_O_transverse_colon_UP_
2	0.015	14 / 883	LaPointe_mucosa-position_kmeans_L_transverse_colon_cecum_colon_DN
3	0.020	6 / 255	Kosinski_top_crypt-long-list
4	0.033	9 / 532	LaPointe_mucosa-position_kmeans_B_ascending_colon_transverse_colon_UI
5	0.034	22 / 290	LeMottek_TCGA_meth_kmeans_O_CIMP_H_DN
6	0.047	21 / 1729	LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_t
7	0.048	7 / 397	Pentrack_CRC_TCGA_corr_C_normal_UP
8	0.055	13 / 958	LaPointe_mucosa-position_kmeans_D_transverse_colon_UP
9	0.056	17 / 354	LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP_a
10	0.063	2 / 49	Pentrack_CRC_TCGA_corr_N_msi-h_DN
11	0.073	1 / 9	Marisa_CRC_C2
12	0.073	13 / 1001	LaPointe_mucosa-position_kmeans_H_cecum_colon_ascending_colon_UP_
13	0.111	1 / 14	Hewish_dMMR-secondary_mutations_DNA_repair
14	0.116	7 / 492	LaPointe_mucosa-position_kmeans_C_cecum_colon_ascending_colon_trans
15	0.190	12 / 1083	LaPointe_mucosa-position_kmeans_J_cecum_colon_ascending_colon_transv

BM Rank	p-value	#in/all	Geneset
1	1e-04	6 / 96	HALLMARK_ANDROGEN_RESPONSE
2	4e-02	3 / 94	HALLMARK_PROTEIN_SECRETION
3	7e-02	4 / 187	HALLMARK_E2F_TARGETS
4	1e-01	3 / 141	HALLMARK_UV_RESPONSE_DN
5	2e-01	3 / 174	HALLMARK_ADIPOGENESIS
6	2e-01	1 / 155	HALLMARK_MTORC1_SIGNALING
7	2e-01	2 / 106	HALLMARK_UNFOLDED_PROTEIN_RESPONSE
8	2e-01	3 / 195	HALLMARK_G2M_CHECKPOINT
9	3e-01	1 / 38	HALLMARK_WNT_BETA_CATENIN_SIGNALING
10	3e-01	1 / 51	HALLMARK_TGF_BETA_SIGNALING
11	4e-01	1 / 55	HALLMARK_MYC_TARGETS_V2
12	4e-01	2 / 176	HALLMARK_ALLOGRAFT_REJECTION
13	5e-01	2 / 188	HALLMARK_HYPOXIA
14	5e-01	1 / 76	HALLMARK_INTERFERON_ALPHA_RESPONSE
15	5e-01	2 / 190	HALLMARK_TNFA_SIGNALING_VIA_NFKB

Lymphoma Rank	p-value	#in/all	Geneset
1	1e-13	87 / 5908	HOPP_Active_promoter
2	4e-11	70 / 4357	HOPP_Weak_Tn
3	6e-11	81 / 5682	HOPP_Weak_promoter
4	2e-10	79 / 5529	HOPP_Txn_elongation
5	6e-10	77 / 5404	HOPP_Strong_enhancer
6	1e-08	67 / 4559	HOPP_Weak_enhancer
7	4e-08	14 / 263	SPANG_CD40_6hrs_UP
8	5e-08	22 / 206	SPANG_BCR_DN
9	2e-04	8 / 192	Viranga_Dark_zone_signature
10	3e-04	19 / 955	SPANG_BCR_UP
11	4e-04	53 / 4261	HOPP_Txn_transition
12	1e-03	5 / 96	SPANG_LPS_6hrs_UP
13	2e-03	7 / 227	SPANG_BCR_UP
14	6e-03	4 / 88	ROSLOWSKI_green_UP
15	1e-02	2 / 18	SPANG_BAFF_6hrs_UP

miRNA target Rank	p-value	#in/all	Geneset
1	1e-05	10 / 216	hsa-miR-548l
2	6e-05	9 / 207	hsa-miR-92b
3	7e-05	9 / 213	hsa-miR-363
4	8e-04	10 / 268	hsa-miR-367
5	8e-05	9 / 217	hsa-miR-92a
6	1e-04	5 / 56	hsa-miR-618
7	1e-04	6 / 92	hsa-miR-491-3p
8	2e-04	9 / 235	hsa-miR-25
9	3e-04	10 / 369	hsa-miR-130a
10	3e-04	9 / 262	hsa-miR-32a
11	5e-04	7 / 165	hsa-miR-448
12	5e-04	6 / 119	hsa-miR-132
13	5e-04	7 / 169	hsa-miR-148a
14	1e-03	10 / 368	hsa-miR-301a
15	1e-03	9 / 312	hsa-miR-301b

Telomeres Rank	p-value	#in/all	Geneset
1	0.1	1 / 13	Alternative lengthening of telomeres
2	0.2	1 / 27	Nabetani_alt len telomeres_genes_ko
3	NA	0 / 0	
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

BP Rank	p-value	#in/all	Geneset
1	3e-04	3 / 16	negative regulation of T cell receptor signaling pathway
2	3e-03	5 / 104	response to ethanol
3	2e-03	3 / 30	response to organonitrogen compound
4	2e-03	4 / 67	positive regulation of cell growth
5	4e-03	4 / 78	nucleosome assembly
6	5e-03	2 / 13	NAD metabolic process
7	5e-03	2 / 13	response to reactive oxygen species
8	5e-03	2 / 13	stress fiber assembly
9	6e-03	2 / 14	activation of MAPKKK activity
10	6e-03	2 / 14	long term synaptic depression
11	6e-03	2 / 14	regulation of establishment of cell polarity
12	6e-03	4 / 88	osteoblast differentiation
13	8e-03	2 / 16	protein ADP-ribosylation
14	8e-03	3 / 49	cellular response to starvation
15	9e-03	2 / 17	tRNA methylation

Chr Rank	p-value	#in/all	Geneset
1	3e-04	12 / 437	Chr 8
2	4e-04	15 / 669	Chr 6
3	2e-04	9 / 480	Chr 4
4	2e-02	9 / 490	Chr 10
5	1e-01	3 / 139	Chr 21
6	2e-01	10 / 832	Chr 2
7	2e-01	8 / 700	Chr 12
8	3e-01	6 / 554	Chr 5
9	6e-01	4 / 492	Chr 9
10	6e-01	2 / 242	Chr 13
11	7e-01	10 / 1325	Chr 1
12	8e-01	2 / 333	Chr 22
13	8e-01	1 / 184	Chr 18
14	9e-01	3 / 585	Chr 7
15	9e-01	4 / 776	Chr 17

Glioma Rank	p-value	#in/all	Geneset
1	4e-05	28 / 1523	Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
2	9e-05	25 / 1343	Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
3	9e-03	3 / 52	GIZELT_GBM_WT_down_VS_mut
4	5e-02	1 / 6	Shaw_responders_up_in_oligo_glioma
5	6e-02	1 / 7	oligodendrocytes_glio
6	6e-02	6 / 330	Up
7	6e-02	1 / 8	Shaw_up_in_ip19qdel
8	7e-02	9 / 614	Sturm_GBM_Meth_overexpression_E_G34_UP
9	9e-02	5 / 282	WILLSCHEER_GBM_Verhaak-PNwt & CL_up
10	1e-01	2 / 96	GIZELT_GBM_MGMTmethyl_down_VS_nonmethyl
11	1e-01	1 / 16	VERHAAK_NL_subtype
12	1e-01	1 / 16	VERHAAK_PN_subtype
13	2e-01	2 / 83	Scov_0_999_Sturm_E3_RTK1_PDGFRa_DN
14	2e-01	1 / 21	Barbus_GBM_STS_VS_LTS
15	2e-01	1 / 22	Sturm_GBM_Meth_overexpression_H_K27_UP

Immunome Rank	p-value	#in/all	Geneset
1	0.005	2 / 13	Angelova Immune-metagen-activated_B-cells
2	0.088	1 / 11	Angelova Immune-metagen-macrophages
3	0.103	1 / 13	Angelova Immune-metagen-immature_B-cells
4	0.125	1 / 16	Angelova Immune-metagen-Th17
5	0.140	1 / 18	Angelova_CRC_immunostimulators
6	0.235	1 / 20	Angelova Immune-metagen-effector_memory_CD8
7	0.297	1 / 42	Angelova Immune-metagen-TGD
8	1.000	0 / 26	Angelova Immune-metagen-activated_CD4
9	1.000	0 / 19	Angelova Immune-metagen-activated_CD8
10	1.000	0 / 21	Angelova Immune-metagen-central_memory_CD4
11	1.000	0 / 17	Angelova Immune-metagen-central_memory_CD8
12	1.000	0 / 7	Angelova Immune-metagen-cytotoxic_cells
13	1.000	0 / 25	Angelova Immune-metagen-DC
14	1.000	0 / 12	Angelova Immune-metagen-effector_memory_CD4
15	1.000	0 / 14	Angelova Immune-metagen-eosinophil

Melanoma Rank	p-value	#in/all	Geneset
1	0.002	5 / 107	Tirosh_Exhaustion program in Mel75
2	0.114	4 / 222	Gerber_wt/wt_melanoma-cells-SpotF
3	0.152	2 / 83	TCGA_melanoma Immune_high
4	0.182	1 / 24	Tirosh_exhaustion-associated genes consistent across tumors
5	0.209	3 / 189	Tirosh_genes preferentially expressed by Tregs
6	0.273	1 / 38	Hugo_melanoma-BRAFmut-MET_UP
7	0.275	4 / 319	Gerber_wt/wt_melanoma-cells-SpotA
8	0.299	1 / 39	top50 correlated genes PC4
9	0.348	1 / 51	Tirosh_genes from CD8 T-cells in Mel79-melanoma
10	0.399	5 / 497	Gerber_wt/wt_melanoma-cells-SpotD
11	0.509	2 / 204	Landsberg_dedifferentiation_down
12	0.510	1 / 85	Tirosh_AXL-signature
13	0.513	2 / 236	Gerber_wt/wt_group3-specific
14	0.618	2 / 249	Gerber_wt/wt_melanoma-cells-SpotE
15	0.674	2 / 276	Gerber_wt/wt_melanoma-cells-SpotB

Pneumonia Rank	p-value	#in/all	Geneset
1	0.06	4 / 179	Terre_MSV_multiple_respiratory_viruses_dn
2	0.29	1 / 41	SciCluna_DN
3	0.37	1 / 66	Burnham_sep_vs_con_DN
4	0.38	1 / 38	Burnham_viral_UP
5	0.38	1 / 57	Burnham_day1_vs_5_UP
6	0.48	1 / 122	Terre_IMS_influenza_meta_signature
7	1.00	0 / 68	Burnham_sep_vs_con_UP
8	1.00	0 / 48	Burnham_cap_ip_vs_con_DN
9	1.00	0 / 71	Burnham_cap_ip_vs_con_UP
10	1.00	0 / 48	Burnham_viral_DN
11	1.00	0 / 52	Burnham_day1_vs_5_DN
12	1.00	0 / 54	Burnham_timecourse
13	1.00	0 / 18	SciCluna_UP
14	1.00	0 / 37	Sweeney_viral_up
15	1.00	0 / 33	Sweeney_viral_dn

TF Rank	p-value	#in/all	Geneset
1	0.02	1 / 2	MYC_Chromatin_modification_UP
2	0.02	19 / 1387	HEBENSTREIT_high expression TF
3	0.04	15 / 1107	ICGC_Myc_targets
4	0.07	8 / 522	ICGC_SrPcr2_targets
5	0.15	14 / 1241	KIM_MYC_targets
6	0.16	12 / 1041	ICGC_P300_targets
7	0.17	23 / 2254	ICGC_BatfPcr1_targets
8	0.18	22 / 2150	ICGC_Irf4_targets
9	0.18	16 / 1494	ICGC_Cebpbcs150_targets
10	0.19	17 / 1630	ICGC_SrV0416101_targets
11	0.27	15 / 1021	ICGC_Mef2_targets
12	0.29	16 / 1636	ICGC_Bcl11_targets
13	0.34	32 / 3564	ICGC_Taf1_targets
14	0.35	18 / 1941	ICGC_Bcl3_targets
15	0.35	27 / 2994	ICGC_Zeb1_targets

Cancer Rank	p-value	#in/all	Geneset
1	0.004	2 / 11	LIU_PROSTATE_CANCER_UP
2	0.049	1 / 6	ZHANG_MGUS_up
3	0.080	1 / 10	GENTLES_modul3
4	0.088	1 / 11	GENTLES_modul14
5	0.111	1 / 14	GUSTAFSON_P13K_DN
6	0.111	1 / 14	BENTINK_ras_6
7	0.111	1 / 14	BENTINK_src_2
8	0.121	2 / 72	PanCan_Wnt_geneset_nanostring
9	0.125	1 / 16	GENTLES_modul6
10	0.125	1 / 16	GENTLES_modul16
11	0.211	6 / 480	Lembecke_Colonc Inflammation
12	0.235	1 / 32	KUIPER_MM good survival
13	0.291	1 / 41	PanCan_DNARepair_geneset_nanostring
14	0.295	2 / 130	PanCan_CC+Apop_geneset_nanostring
15	0.326	1 / 47	PanCan_TGF-B_geneset_nanostring

Chromatin states Rank	p-value	#in/all	Geneset
1	1e-17	91 / 5716	Bcells_peripheral_blood_4_Tx
2	5e-15	88 / 5753	Tcells_peripheral_blood_4_Tx
3	4e-14	93 / 6637	Tcells_peripheral_blood_5_TxWk
4	7e-14	90 / 6244	15_Quies_Fibroblasts
5	8e-14	85 / 5601	Thelper_cells_peripheral_blood_4_Tx
6	1e-13	86 / 5766	natural_killer_cells_peripheral_blood_4_Tx
7	1e-12	94 / 7078	Bcells_peripheral_blood_5_TxWk
8	1e-12	67 / 3767	Bcells_peripheral_blood_6_EnhC
9	2e-12	98 / 7420	Tcells_peripheral_blood_1_TssA
10	2e-12	97 / 7581	15_Quies_Melanocytes
11	2e-12	84 / 5738	monocytes_peripheral_blood_4_Tx
12	2e-12	98 / 7751	natural_killer_cells_peripheral_blood_1_TssA
13	2e-12	92 / 6839	T CD8+ naive cells_peripheral_blood_5_TxWk
14	3e-12	41 / 1535	Bcells_peripheral_blood_8_ZNF_Rpts
15	3e-12	90 / 6582	Quies3_Colon

GSEA C2 Rank	p-value	#in/all	Geneset
1	8e-09	15 / 275	HADDAD_B_LYMPHOCTE_PROGENITOR
2	2e-08	7 / 37	ZHAN_MULTIPLE_MYELOMA_CD20_UP
3	3e-06	19 / 673	SCHLOSSER_SERUM_RESPONSE_DN
4	1e-05	6 / 61	BASSO_CD40_SIGNALING_DN
5	2e-00	14 / 442	KIM_WT1_TARGETS_DN
6	5		

Overexpression Spots

Spot Summary: F

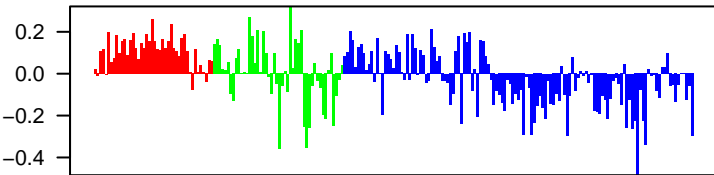
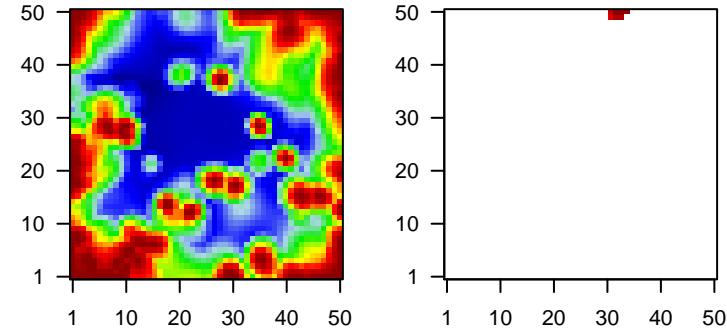
metagenes = 7
genes = 161

<r> metagenes = 0.99
<r> genes = 0.21
beta: r2= 3.45 / log p= -Inf

samples with spot = 7 (3.2 %)
mBL : 2 (4.5 %)
intermediate : 4 (8.3 %)
non-mBL : 1 (0.8 %)

Overview Map

Spot

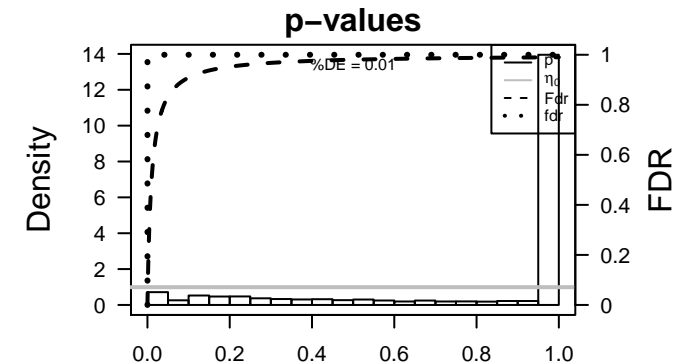


Spot Genelist

Rank	ID	max e	r	min e	Description
1	212436_at	1.64	-1.2	0.37	TRIM33 tripartite motif containing 33 [Source:HGNC Symbol;Acc:HGNC:10000]
2	209781_s_at	1.63	-1.13	0.4	KHDRBSKH RNA binding domain containing, signal transduction asso
3	204282_s_at	1.45	-0.99	0.32	FARS2 phenylalanyl-tRNA synthetase 2, mitochondrial [Source:HGNC
4	210041_s_at	1.42	-1.16	0.56	PGM3 phosphoglucomutase 3 [Source:HGNC Symbol;Acc:HGNC:8100]
5	211697_x_at	1.41	-1.33	0.36	PNO1 partner of NOB1 homolog [Source:HGNC Symbol;Acc:HGNC:10000]
6	217551_at	1.4	-1.1	0.25	olfactory receptor family 7 subfamily E member 14 pseudogen
7	217135_x_at	1.38	-0.69	0.54	cytochrome c oxidase subunit 6B1 pseudogene 3 [Source:HGNC
8	210008_s_at	1.32	-0.99	0.59	MRPS12 mitochondrial ribosomal protein S12 [Source:HGNC Symbol;Acc:HGNC:10000]
9	219741_x_at	1.32	-0.87	0.46	ZNF552 zinc finger protein 552 [Source:HGNC Symbol;Acc:HGNC:26000]
10	219036_at	1.32	-0.84	0.39	CEP70 centrosomal protein 70 [Source:HGNC Symbol;Acc:HGNC:26000]
11	219763_at	1.3	-1.3	0.34	DENND1B DENN domain containing 1A [Source:HGNC Symbol;Acc:HGNC:10000]
12	203672_x_at	1.26	-0.97	0.35	TPMT thiopurine S-methyltransferase [Source:HGNC Symbol;Acc:HGNC:10000]
13	204001_at	1.26	-1.33	0.5	SNAPC3 small nuclear RNA activating complex polypeptide 3 [Source:HGNC
14	209646_x_at	1.23	-1.28	0.51	ALDH1B1 aldehyde dehydrogenase 1 family member B1 [Source:HGNC
15	222264_at	1.22	-0.8	0.37	HNRNPUL1 heterogeneous nuclear ribonucleoprotein U like 2 [Source:HGNC
16	205164_at	1.22	-1.07	0.38	GCAT glycine C-acetyltransferase [Source:HGNC Symbol;Acc:HGNC:10000]
17	201618_x_at	1.16	-1.59	0.48	GPAA1 glycosylphosphatidylinositol anchor attachment 1 [Source:HGNC
18	220212_s_at	1.14	-1.24	0.43	THADA THADA, armadillo repeat containing [Source:HGNC Symbol;Acc:HGNC:10000]
19	57703_at	1.14	-0.66	0.45	SENP5 SUMO1/sentrin specific peptidase 5 [Source:HGNC Symbol;Acc:HGNC:10000]
20	203702_s_at	1.14	-1	0.4	TTL4 tubulin tyrosine ligase like 4 [Source:HGNC Symbol;Acc:HGNC:10000]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	4e-15	113 / 5529	LympI HOPP_Txn_elongation
2	9e-12	111 / 5908	LympI HOPP_Active_promoter
3	2e-10	88 / 4261	LympI HOPP_Txn_transition
4	2e-09	46 / 1578	TF ICGC_GabpPcr2_targets
5	4e-08	34 / 1044	TF ICGC_Six5_targets
6	2e-07	66 / 3150	TF ICGC_Creb1_targets
7	3e-06	7 / 53	BP mitochondrial translational termination
8	3e-06	31 / 1089	TF ICGC_Ets1_targets
9	3e-06	7 / 54	BP mitochondrial translational elongation
10	8e-06	30 / 1083	Color LaPointe_mucosa-position_kmeans_J_cecum_colon_ascending_colon_tra
11	9e-06	65 / 3420	TF ICGC_Bclaf101388_targets
12	1e-05	21 / 615	GSE/ BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_DN
13	1e-05	93 / 5682	LympI HOPP_Weak_promoter
14	2e-05	69 / 3769	TF ICGC_Pmlsc71910_targets
15	2e-05	52 / 2541	CC nucleoplasm
16	2e-05	67 / 3630	TF ICGC_Sp1_targets
17	2e-05	66 / 3564	TF ICGC_Taf1_targets
18	2e-05	38 / 1630	TF ICGC_SrfV0416101_targets
19	3e-05	64 / 3451	TF ICGC_Atf2_targets
20	3e-05	18 / 510	GSE/ STEIN_ESRRA_TARGETS
21	8e-05	6 / 61	BP snRNA transcription from RNA polymerase II promoter
22	8e-05	38 / 1729	Color LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP
23	9e-05	4 / 21	CC mitochondrial small ribosomal subunit
24	9e-05	56 / 2994	TF ICGC_Zeb1_targets
25	1e-04	10 / 196	CC nuclear membrane
26	1e-04	3 / 9	GSE/ REACTOME_VITAMIN_B5_PANTOTHENATE_METABOLISM
27	1e-04	6 / 67	BP tRNA processing
28	1e-04	8 / 130	GSE/ LASTOWSKA_NEUROBLASTOMA_COPY_NUMBER_UP
29	2e-04	31 / 1354	Color LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP
30	2e-04	43 / 2150	TF ICGC_Irf4_targets
31	2e-04	8 / 139	GSE/ MOREAUX_MULTIPLE_MYELOMA_BY_TACI_DN
32	2e-04	64 / 3703	TF ICGC_Foxm1_targets
33	3e-04	9 / 178	GSE/ LOCKWOOD_AMPLIFIED_IN_LUNG_CANCER
34	3e-04	13 / 361	GSE/ GARY_CD5_TARGETS_DN
35	3e-04	8 / 147	GSE/ WANG_CLIM2_TARGETS_DN
36	3e-04	4 / 29	CC mitochondrial large ribosomal subunit
37	4e-04	68 / 4072	TF ICGC_Mta3_targets
38	4e-04	10 / 232	BP translation
39	4e-04	3 / 13	GSE/ REACTOME_SYNTHESIS_OF_SUBSTRATES_IN_N_GLYCAN_BIOSYTH
40	4e-04	13 / 371	GSE/ STEIN_ESRRA_TARGETS_UP



Aging Rank	p-value	#in/all	Geneset
1	0.3	2 / 92	HORVATH_aging_genes_meth_DOWN
2	1.0	0 / 107	HORVATH_aging_genes_meth_UP
3	1.0	0 / 47	TESCHENDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

CC Rank	p-value	#in/all	Geneset
1	2e-05	52 / 2541	nucleoplasm
2	9e-05	4 / 21	mitochondrial small ribosomal subunit
3	1e-04	10 / 196	nuclear membrane
4	3e-04	4 / 29	mitochondrial large ribosomal subunit
5	5e-04	12 / 330	mitochondrial inner membrane
6	1e-03	7 / 139	ribosome
7	2e-03	3 / 20	mitochondrial ribosome
8	4e-03	0 / 263	intracellular ribonucleoprotein complex
9	8e-03	24 / 1221	mitochondrion
10	8e-03	2 / 12	integrator complex
11	1e-02	58 / 3805	cytosol
12	1e-02	2 / 16	neuron projection terminus
13	2e-02	2 / 19	transcriptionally active chromatin
14	2e-02	14 / 853	nucleolus
15	3e-02	3 / 56	proteasome complex

Colon Cancer Rank	p-value	#in/all	Geneset
1	8e-06	30 / 1083	LaPointe_mucosa-position_kmeans_J_cecum_colon_ascending_colon_transv
2	8e-05	38 / 1729	LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_t
3	2e-04	31 / 1354	LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP_a
4	2e-02	13 / 602	Pentrack_CRC_TCGA_corr_R_normal_DN
5	1e-01	15 / 883	LaPointe_mucosa-position_kmeans_L_transverse_colon_cecum_colon_DN
6	1e-01	10 / 532	LaPointe_mucosa-position_kmeans_B_descending_colon_transverse_colon_UP
7	1e-01	9 / 492	LaPointe_mucosa-position_kmeans_C_cecum_colon_ascending_colon_transv
8	3e-01	16 / 1166	LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_cecum_colon_a
9	3e-01	1 / 31	Marisa_CRC-cluster-c
10	3e-01	13 / 958	LaPointe_mucosa-position_kmeans_D_transverse_colon_UP_
11	4e-01	1 / 43	Marisa_CRC-cluster-f
12	4e-01	1 / 49	Pentrack_CRC_TCGA_corr_N_msi-h_DN
13	4e-01	7 / 539	Lembcke_TCGA_meth_kmeans_L_CIMP_H_DN
14	5e-01	1 / 60	Marisa_CRC-cluster-g
15	6e-01	8 / 738	Lembcke_TCGA-expr_kmeans_N_CIMP_H_DN

LM Rank	p-value	#in/all	Geneset
1	0.1	3 / 97	HALLMARK_PEROXISOME
2	0.2	4 / 161	HALLMARK_XENOBIOTIC_METABOLISM
3	0.2	4 / 186	HALLMARK_OXIDATIVE_PHOSPHORYLATION
4	0.2	3 / 133	HALLMARK_DNA_REPAIR
5	0.3	2 / 96	HALLMARK_ANDROGEN_RESPONSE
6	0.3	3 / 174	HALLMARK_BILE_ACID_METABOLISM
7	0.3	3 / 174	HALLMARK_ADIPOGENESIS
8	0.4	2 / 106	HALLMARK_UNFOLDED_PROTEIN_RESPONSE
9	0.4	3 / 182	HALLMARK_GLYCOLYSIS
10	0.4	3 / 190	HALLMARK_MYC_TARGETS_V1
11	0.5	2 / 51	HALLMARK_TGF_BETA_SIGNALING
12	0.5	2 / 149	HALLMARK_LV_RESPONSE_UP
13	0.6	2 / 166	HALLMARK_INTERFERON_GAMMA_RESPONSE
14	0.6	2 / 173	HALLMARK_MITOTIC_SPINDLE
15	0.6	2 / 178	HALLMARK_COMPLEMENT

Lymphoma Rank	p-value	#in/all	Geneset
1	4e-15	113 / 5529	HOPP_Txn_elongation
2	9e-12	111 / 5908	HOPP_Active_promoter
3	2e-10	88 / 4261	HOPP_Txn_transition
4	1e-05	93 / 5682	HOPP_Weak_promoter
5	4e-03	80 / 5404	HOPP_Strong_enhancer
6	6e-03	33 / 1814	HOPP_Repetitive
7	6e-02	63 / 4559	HOPP_Weak_enhancer
8	1e-01	19	YAMANE_AICDA_targets_nonrecruited
9	1e-01	59 / 4357	HOPP_Weak_txn
10	1e-01	5 / 227	SPANG_IL21_UP
11	1e-01	2 / 56	Hopp_Lymphoma_Epi1_with_zentr_iv_B_cell_MM_UP
12	2e-01	14 / 906	SPANG_BCR_DN
13	2e-01	14 / 955	SPANG_BCR_UP
14	4e-01	1 / 40	CARO_OxPhos_in_DLCLC_UP
15	5e-01	4 / 305	TARTE_Plasmablast_signature

miRNA target Rank	p-value	#in/all	Geneset
1	6e-04	5 / 59	hsa-miR-651
2	6e-03	4 / 61	hsa-miR-1290
3	3e-02	3 / 54	hsa-miR-628b-3p
4	3e-04	3 / 25	hsa-miR-892b
5	4e-02	7 / 262	hsa-miR-32
6	4e-02	2 / 26	hsa-miR-1226
7	4e-02	4 / 107	hsa-miR-24
8	4e-02	5 / 160	hsa-miR-545
9	3e-02	3 / 66	hsa-miR-561
10	5e-02	3 / 72	hsa-miR-378
11	6e-02	1 / 5	hsa-miR-126
12	6e-02	2 / 35	hsa-miR-640
13	6e-02	3 / 78	hsa-miR-224
14	7e-02	2 / 36	hsa-miR-553
15	7e-02	2 / 36	hsa-miR-636

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

BP Rank	p-value	#in/all	Geneset
1	3e-06	7 / 53	mitochondrial translational termination
2	3e-06	7 / 54	mitochondrial translational elongation
3	8e-05	6 / 61	snRNA transcription from RNA polymerase II promoter
4	1e-04	6 / 67	tRNA processing
5	4e-04	10 / 232	translation
6	8e-04	15 / 502	protein transport
7	2e-04	3 / 21	mitochondrial translation
8	4e-03	4 / 55	negative regulation of DNA binding transcription factor activity
9	5e-03	3 / 30	biosynthetic process
10	6e-03	2 / 10	snRNA processing
11	7e-03	2 / 11	regulation of mRNA splicing, via spliceosome
12	8e-02	3 / 35	cellular amino acid metabolic process
13	8e-03	2 / 12	layer formation in cerebral cortex
14	1e-02	2 / 16	synaptic vesicle endocytosis
15	2e-02	6 / 173	proteasome-mediated ubiquitin-dependent protein catabolic process

Chr Rank	p-value	#in/all	Geneset
1	5e-04	20 / 756	Chr 11
2	2e-02	16 / 776	Chr 17
3	4e-02	16 / 832	Chr 1
4	4e-02	9 / 382	Chr 15
5	1e-01	8 / 403	Chr 14
6	2e-01	11 / 689	Chr 3
7	2e-01	8 / 492	Chr 9
8	3e-01	7 / 437	Chr 8
9	5e-01	10 / 833	Chr 19
10	6e-01	4 / 369	Chr 20
11	7e-01	6 / 685	Chr 1
12	7e-01	14 / 1325	Chr 1
13	8e-01	3 / 143	Chr 22
14	8e-01	5 / 548	Chr 16
15	8e-01	1 / 139	Chr 21

Glioma Rank	p-value	#in/all	Geneset
1	0.001	31 / 1523	Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
2	0.032	3 / 59	WILLSCHER_GBM_Verhaak_PNwt & MES_up
3	0.041	23 / 1343	Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
4	0.117	2 / 50	Vishai_subnetwork_signature_of_survival_in_GBM
5	0.186	10 / 614	Sturm_GBM_Meth_overexpression_E_G34_UP
6	0.237	5 / 282	WILLSCHER_GBM_Verhaak_PNwt & CL_up
7	0.246	2 / 81	GIEZELT_GBM_MGMTmethyl_up_VS_nonmethyl
8	0.413	1 / 45	Donson-innate immunity-associated with LTS in HGA
9	0.417	2 / 121	Hopp_Sturm_GBM_Epi3_F_RTK_II_UP_adult_fetus_K27_DN
10	0.450	1 / 52	GIEZELT_GBM_WT_down_VS_mut
11	0.478	1 / 55	WILLSCHER_GBM_proteomics_wtOnly_SpotJ
12	0.497	1 / 58	GIEZELT_GBM_STSwt_down_VS_LTSwt
13	0.503	1 / 59	GIEZELT_GBM_STS_up_VS_LTS
14	0.531	1 / 64	Weller_LGG_A_vs_O_DOWN
15	0.542	1 / 66	GIEZELT_GBM_MGMTmethyl_down_VS_nonmethyl

Immunome Rank	p-value	#in/all	Geneset
1	0.09	1 / 8	Angelova_immune-metagenome-nDC
2	0.11	1 / 10	Angelova_immune-metagenome-neutrophils
3	0.20	1 / 19	Angelova_immune-metagenome-activated_C8B
4	1.00	0 / 13	Angelova_immune-metagenome-activated_B-cells
5	1.00	0 / 26	Angelova_immune-metagenome-activated_CD4
6	1.00	0 / 21	Angelova_immune-metagenome-central_memory_CD4
7	1.00	0 / 17	Angelova_immune-metagenome-central_memory_CD8
8	1.00	0 / 7	Angelova_immune-metagenome-cytotoxic_cells
9	1.00	0 / 25	Angelova_immune-metagenome-DC
10	1.00	0 / 12	Angelova_immune-metagenome-effector_memory_CD4
11	1.00	0 / 32	Angelova_immune-metagenome-effector_memory_CD8
12	1.00	0 / 14	Angelova_immune-metagenome-eosinophil
13	1.00	0 / 19	Angelova_immune-metagenome-iDC
14	1.00	0 / 13	Angelova_immune-metagenome-immature_B-cells
15	1.00	0 / 11	Angelova_immune-metagenome-macrophages

Melanoma Rank	p-value	#in/all	Geneset
1	0.001	9 / 222	Gerber_wtwt_melanoma-cells-SpotF
2	0.044	7 / 276	Gerber_wtwt_melanoma-cells-SpotB
3	0.134	6 / 230	Gerber_wtwt_melanoma-cells_SpotC
4	0.173	4 / 185	Tirosh_genes from malignant cells in Mel79-melanoma
5	0.190	2 / 68	Tirosh_housekeeping_genes
6	0.246	2 / 81	Tirosh_Genes in the MITF program
7	0.247	1 / 24	Tirosh_exhaustion-associated genes consistent across tumors
8	0.583	3 / 249	Gerber_wtwt_melanoma-cells-SpotE
9	0.635	1 / 85	Tirosh_AXL-signature
10	0.695	2 / 204	Landsberg_dedifferentiation_down
11	0.769	2 / 236	Gerber_wtwt_group3-specific
12	0.894	1 / 189	Tirosh_genes preferentially expressed by Tregs
13	0.913	3 / 487	Gerber_wtwt_melanoma-cells_SpotD
14	1.000	0 / 17	Hugo_melanoma-all-MET_UP
15	1.000	0 / 37	Hugo_melanoma-all-MET_DN

Pneumonia Rank	p-value	#in/all	Geneset
1	0.1	2 / 54	Burnham_timecourse
2	0.3	1 / 33	Sweeney_viral_dn
3	0.5	1 / 52	Burnham_day1_vs_5_DN
4	0.5	2 / 135	Terre_MSV_multiple_respiratory_viruses_up
5	0.8	1 / 122	Terre_IMS_influenza_meta_signature
6	0.9	1 / 179	Terre_MSV_multiple_respiratory_viruses_dn
7	1.0	0 / 68	Burnham_sep_vs_con_UP
8	1.0	0 / 56	Burnham_sep_vs_con_DN
9	1.0	0 / 48	Burnham_cap_fp_vs_con_DN
10	1.0	0 / 71	Burnham_cap_fp_vs_con_UP
11	1.0	0 / 48	Burnham_viral_DN
12	1.0	0 / 57	Burnham_viral_UP
13	1.0	0 / 57	Burnham_day1_vs_5_UP
14	1.0	0 / 18	SciCluna_UP
15	1.0	0 / 41	SciCluna_DN

TF Rank	p-value	#in/all	Geneset
1	2e-09	46 / 1578	ICGC_GabpPcr2_targets
2	4e-08	34 / 1044	ICGC_Six5_targets
3	2e-07	66 / 3150	ICGC_Creb1_targets
4	3e-06	31 / 1089	ICGC_Ets1_targets
5	9e-06	65 / 3420	ICGC_Bclaf10388_targets
6	6e-05	69 / 3769	ICGC_Pmlsc71910_targets
7	2e-05	67 / 3630	ICGC_Sp1_targets
8	2e-05	66 / 3564	ICGC_Taf1_targets
9	2e-05	38 / 1630	ICGC_SrlV0416101_targets
10	3e-05	64 / 3451	ICGC_Atl2_targets
11	3e-05	86 / 2991	ICGC_Zeb1_targets
12	2e-04	43 / 2150	ICGC_Irf4_targets
13	2e-04	64 / 3703	ICGC_Foxm1_targets
14	4e-04	68 / 4072	ICGC_Mta3_targets
15	5e-04	26 / 1107	ICGC_Myc_targets

Cancer Rank	p-value	#in/all	Geneset
1	0.006	2 / 10	GENTLES_modul5
2	0.031	3 / 58	SHAUGHNESSY_MM_high_risk
3	0.144	0 / 15	RHODES_CANCER_META_SIGNATURE
4	0.152	1 / 14	BENTINK_myc.1
5	0.162	1 / 15	GENTLES_modul2
6	0.162	1 / 15	GENTLES_modul4
7	0.162	1 / 15	GENTLES_modul7
8	0.282	1 / 28	PanCan_HK_geneset_nanostring
9	0.427	0 / 14	LIU_COMMON_CANCER_GENES
10	0.460	0 / 16	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN
11	0.510	0 / 14	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
12	0.786	1 / 130	PanCan_CC+Apop_geneset_nanostring
13	0.796	1 / 134	PanCan_RAS_geneset_nanostring
14	0.826	1 / 147	PanCan_MAPK_geneset_nanostring
15	0.863	3 / 409	Lembcke_Normal_vs_Adenoma

Chromatin states Rank	p-value	#in/all	Geneset
1	5e-24	149 / 8200	monocytes_peripheral_blood_2_TssAFlnk
2	1e-23	150 / 8406	Bcels_peripheral_blood_2_TssAFlnk
3	2e-23	150 / 8431	T_CD8+naive_cells_peripheral_blood_2_TssAFlnk
4	3e-23	152 / 8816	Thelper_cells_peripheral_blood_2_TssAFlnk
5	2e-22	146 / 7957	Tcells_peripheral_blood_2_TssAFlnk
6	2e-22	141 / 7331	Tssa_Colon
7	6e-22	148 / 8322	T_CD8+naive_cells_peripheral_blood_1_TssA
8	6e-22	143 / 7635	monocytes_peripheral_blood_1_TssA
9	2e-21	147 / 8245	Regulatory_cells_peripheral_blood_2_TssAFlnk
10	8e-21	152 / 9146	3_TssF_Skeletal_Muscle
11	1e-20	147 / 8370	natural_killer_cells_peripheral_blood_2_TssAFlnk
12	2e-20	143 / 7833	Bcels_peripheral_blood_1_TssA
13	4e-20	147 / 8430	3_TssF_Melanocytes
14	5e-20	150 / 8918	2_TssA_ESC_Mesoderm
15	6e-20	149 / 8766	2_TssA_Melanocytes

GSEA C2 Rank	p-value	#in/all	Geneset
1	1e-05	21 / 615	BUYAERT_PHOTOYNAMIC_THERAPY_STRESS_DN
2	3e-05	18 / 510	STEIN_ESRRA_TARGETS
3	1e-04	3 / 9	REACTOME_VITAMIN_B5_PANTOTHENATE_METABOL

Overexpression Spots

Spot Summary: G

metagenes = 2
genes = 35

<r> metagenes = 0.99
<r> genes = 0.34
beta: r2= 12.38 / log p= -Inf

samples with spot = 49 (22.2 %)
mBL : 40 (90.9 %)
intermediate : 7 (14.6 %)
non-mBL : 2 (1.6 %)

Spot Genelist

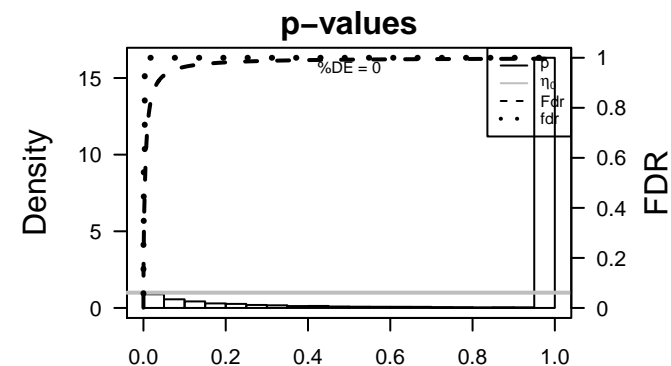
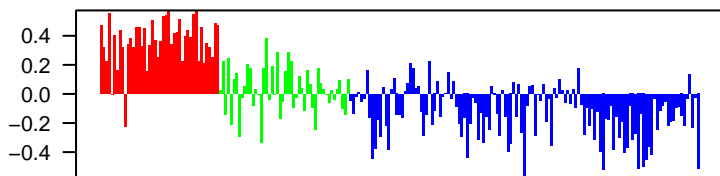
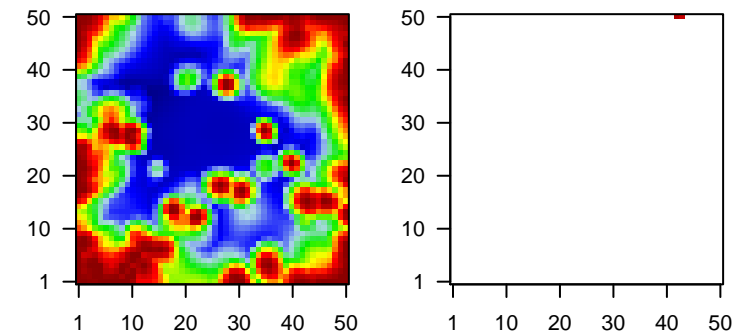
Rank	ID	max e	r	min e	Description
1	209470_s_at	1.84	-1.56	0.54	GPM6A glycoprotein M6A [Source:HGNC Symbol;Acc:HGNC:4460]
2	205001_s_at	1.66	-1.27	0.39	DDX3Y DEAD-box helicase 3, Y-linked [Source:HGNC Symbol;Acc:HGNC:21692]
3	218529_at	1.41	-0.99	0.58	CD320 CD320 molecule [Source:HGNC Symbol;Acc:HGNC:16692]
4	216685_s_at	1.33	-1.1	0.4	MTAP methylthioadenosine phosphorylase [Source:HGNC Symbol;Acc:HGNC:2695]
5	214581_x_at	1.26	-1.08	0.41	TNFRSF25 TNF receptor superfamily member 21 [Source:HGNC Symbol;Acc:HGNC:2695]
6	207042_at	1.22	-0.96	0.64	E2F2 E2F transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:2695]
7	91816_f_at	1.19	-1.4	0.6	MEX3D mex-3 RNA binding family member D [Source:HGNC Symbol;Acc:HGNC:2695]
8	207824_s_at	1.17	-1.47	0.63	MAZ MYC associated zinc finger protein [Source:HGNC Symbol;Acc:HGNC:2695]
9	202806_at	1.15	-1.5	0.53	DBN1 drebrin 1 [Source:HGNC Symbol;Acc:HGNC:2695]
10	209151_x_at	1.05	-1.73	0.64	TCF3 transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:1166]
11	200672_x_at	1.05	-1.27	0.56	SPTBN1 spectrin beta, non-erythrocytic 1 [Source:HGNC Symbol;Acc:HGNC:2695]
12	205048_s_at	0.99	-1.39	0.4	PPP4R2 phosphoserine phosphatase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:2695]
13	205429_s_at	0.98	-1.08	0.46	MPP6 membrane palmitoylated protein 6 [Source:HGNC Symbol;Acc:HGNC:2695]
14	200894_s_at	0.98	-1.77	0.62	FKBP4 FK506 binding protein 4 [Source:HGNC Symbol;Acc:HGNC:2695]
15	217025_s_at	0.94	-1.16	0.57	DBN1 drebrin 1 [Source:HGNC Symbol;Acc:HGNC:2695]
16	219471_at	0.93	-2.21	0.62	RUBCNLRUN and cysteine rich domain containing beclin 1 interacting
17	44790_s_at	0.89	-2.07	0.59	RUBCNLRUN and cysteine rich domain containing beclin 1 interacting
18	211949_s_at	0.88	-1.65	0.7	NOLC1 nucleolar and coiled-body phosphoprotein 1 [Source:HGNC Symbol;Acc:HGNC:2695]
19	203015_s_at	0.87	-1.09	0.75	SSX2IP SSX family member 2 interacting protein [Source:HGNC Symbol;Acc:HGNC:2695]
20	216218_s_at	0.86	-1.36	0.62	PLCL2 phospholipase C like 2 [Source:HGNC Symbol;Acc:HGNC:90]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-07	6 / 99	LympI Sha_BL_UP
2	6e-06	11 / 955	LympI SPANG_BCR_UP
3	3e-05	9 / 726	GSE# PUJANA_CHEK2_PCC_NETWORK
4	3e-05	9 / 728	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
5	4e-05	3 / 28	GSE# YU_BAP1_TARGETS
6	5e-05	10 / 966	GSE# KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
7	7e-05	3 / 34	GSE# REACTOME_G1_PHASE
8	1e-04	8 / 651	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
9	1e-04	3 / 42	GSE# HUMMEL_BURKITTIS_LYMPHOMA_UP
10	3e-04	3 / 53	GSE# GALE_APL_WITH_FLT3_MUTATED_UP
11	3e-04	4 / 135	Lymp DAVE_BL-vs-DLBCL
12	3e-04	3 / 54	GSE# VERNELL_RETINOBLASTOMA_PATHWAY_UP
13	3e-04	5 / 254	GSE# DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
14	3e-04	2 / 12	CancI BENTINK_ras.1
15	4e-04	6 / 417	GSE# SCHAEFFER_PROSTATE_DEVELOPMENT_6HR_DN
16	4e-04	3 / 61	miRN hsa-miR-1290
17	4e-04	5 / 275	GSE# HADDAD_B_LYMPHOCYTE_PROGENITOR
18	4e-04	5 / 280	GSE# MANALO_HYPOXIA_DN
19	5e-04	5 / 290	GSE# WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_DN
20	5e-04	3 / 68	miRN hsa-miR-608
21	6e-04	4 / 169	GSE# FUJII_YBX1_TARGETS_DN
22	7e-04	20 / 4579	CC nucleus
23	7e-04	22 / 5404	Lymp HOPP_Strong_enhancer
24	9e-04	5 / 327	GSE# CUI_TCF21_TARGETS_2_UP
25	9e-04	3 / 82	GSE# ACOSTA_PROLIFERATION_INDEPENDENT_MYC_TARGETS_UP
26	1e-03	2 / 21	CC axonal growth cone
27	1e-03	2 / 23	CC cortical cytoskeleton
28	2e-03	8 / 1007	Refer PROTEINATLAS_kidney
29	2e-03	6 / 575	GSE# CAIRO_HEPATOBLASTOMA_CLASSES_UP
30	2e-03	2 / 28	GSE# BOYLAN_MULTIPLE_MYELOMA_C_CLUSTER_UP
31	2e-03	10 / 1550	GSE# PILON_KLF1_TARGETS_DN
32	2e-03	3 / 110	BP regulation of cell cycle
33	2e-03	6 / 590	GSE# GRAESSMANN_RESPONSE_TO_MC_AND_DOXORUBICIN_DN
34	2e-03	5 / 400	GSE# PUJANA_BRCA2_PCC_NETWORK
35	2e-03	2 / 30	GSE# VALK_AML_CLUSTER_10
36	2e-03	6 / 593	Refer PROTEINATLAS_lateral ventricle
37	2e-03	8 / 1048	Refer PROTEINATLAS_gallbladder
38	2e-03	3 / 114	GSE# KEGG_CELL_CYCLE
39	2e-03	3 / 114	GSE# PUJANA_BRCA_CENTERED_NETWORK
40	2e-03	8 / 1052	GSE# DODD_NASOPHARYNGEAL_CARCINOMA_DN

Overview Map

Spot



Rank	p-value	#in/all	Geneset
1	0.02	2 / 192	HORVATH_aging_genes_meth_DOWN
2	0.22	1 / 107	HORVATH_aging_genes_meth_UP
3	1.00	0 / 47	TSCHEENDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Rank	p-value	#in/all	Geneset
1	7e-04	20 / 4579	nucleus
2	1e-03	2 / 21	axonal growth cone
3	1e-03	2 / 23	cortical cytoskeleton
4	3e-03	19 / 4701	cytoplasm
5	6e-03	2 / 49	RNA polymerase II transcription factor complex
6	6e-03	3 / 163	transcription factor complex
7	9e-03	12 / 2541	nucleoplasm
8	2e-02	5 / 653	nucleolus
9	2e-02	6 / 336	cytoskeleton
10	2e-02	3 / 254	axon
11	2e-02	1 / 10	beta-catenin destruction complex
12	3e-02	1 / 11	actomyosin
13	3e-02	2 / 107	fibrillar center
14	3e-02	1 / 13	axolemma
15	3e-02	1 / 13	mRNA cleavage and polyadenylation specificity factor complex

Rank	p-value	#in/all	Geneset
1	0.007	1 / 3	Budinska_C_CIMP-H-like_DOWN
2	0.037	1 / 16	Budinska_B_Lower crypt-like_UP
3	0.051	20 / 6368	LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
4	0.056	2 / 164	Lembcke_TCGA_meth_kmeans_B_Cluster4_DN
5	0.069	2 / 184	Kosinski_lower_crypt-long-list
6	0.096	1 / 43	Marisa_CRC_cluster-f
7	0.102	7 / 1729	LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_t
8	0.146	2 / 288	Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
9	0.154	2 / 297	Pentrack_CRC_TCGA_group_over_B_msi-h_UP
10	0.162	2 / 397	Pentrack_CRC_TCGA_corr_C_normal_UP
11	0.357	2 / 532	LaPointe_mucosa-position_kmeans_B_descending_colon_transverse_colon_UI
12	0.408	1 / 221	Lembcke_TCGA_meth_kmeans_A_Cluster4_DN
13	0.416	2 / 602	Pentrack_CRC_TCGA_corr_R_normal_DN
14	0.421	3 / 1001	LaPointe_mucosa-position_kmeans_H_cecum_colon_ascending_colon_UP
15	0.454	1 / 255	Kosinski_top_crypt-long-list

Rank	p-value	#in/all	Geneset
1	0.01	3 / 195	HALLMARK_G2M_CHECKPOINT
2	0.04	2 / 139	HALLMARK_FATTY_ACID_METABOLISM
3	0.05	2 / 149	HALLMARK_UV_RESPONSE_UP
4	0.07	2 / 187	HALLMARK_E2F_TARGETS
5	0.08	1 / 34	HALLMARK_ANGIOGENESIS
6	0.09	1 / 107	HALLMARK_WNT_BETA_CATENIN_SIGNALING
7	0.11	1 / 51	HALLMARK_TGF_BETA_SIGNALING
8	0.12	1 / 55	HALLMARK_MYC_TARGETS_V2
9	0.18	1 / 85	HALLMARK_IL6_JAK_STAT3_SIGNALING
10	0.20	1 / 97	HALLMARK_PEROXISOME
11	0.22	1 / 106	HALLMARK_UNFOLDED_PROTEIN_RESPONSE
12	0.27	1 / 133	HALLMARK_DNA_REPAIR
13	0.33	1 / 170	HALLMARK_IL2_STAT5_SIGNALING
14	0.34	1 / 173	HALLMARK_MITOTIC_SPINDLE
15	0.34	1 / 174	HALLMARK_ADIPOGENESIS

Rank	p-value	#in/all	Geneset
1	1e-07	6 / 99	Sha_BL_UP
2	1e-05	11 / 955	SPANG_BCR_UP
3	3e-04	4 / 23	DAVE_BL_vs-DLBC
4	7e-04	22 / 5404	HOPP_Strong_enhancer
5	1e-02	1 / 6	MASCOUE_mBL_UP
6	2e-02	2 / 88	ROSLOWSKI_green_UP
7	2e-02	1 / 9	DAVE_BL_UP
8	2e-02	20 / 5908	HOPP_Active_promoter
9	2e-02	2 / 102	ROSLOWSKI_blue_total
10	3e-02	2 / 121	ROSLOWSKI_green_total
11	3e-02	1 / 15	BENTINK_mBL_UP
12	4e-02	1 / 17	DAVE_c-myc_BL_UP
13	5e-02	18 / 5529	HOPP_Tx_oligotn
14	6e-02	1 / 25	ROSLOWSKI_red_UP
15	7e-02	2 / 192	Victoria_Dark_zone_signature

Rank	p-value	#in/all	Geneset
1	4e-04	3 / 61	hsa-miR-1290
2	5e-04	3 / 68	hsa-miR-608
3	3e-03	2 / 35	hsa-miR-1224-5p
4	6e-03	2 / 35	hsa-miR-409-5p
5	6e-03	3 / 160	hsa-miR-330-3p
6	6e-03	2 / 51	hsa-miR-492
7	7e-03	2 / 55	hsa-miR-637
8	9e-03	2 / 56	hsa-miR-193b
9	9e-03	1 / 5	hsa-miR-427a
10	9e-03	2 / 58	hsa-miR-1304
11	9e-03	2 / 59	hsa-miR-1179
12	9e-03	2 / 62	hsa-miR-205
13	9e-03	2 / 62	hsa-miR-708
14	1e-02	3 / 189	hsa-miR-214
15	1e-02	2 / 164	hsa-miR-365

Rank	p-value	#in/all	Geneset
1	0.03	1 / 13	Alternative lengthening of telomeres
2	1.00	0 / 27	Nabotani_all_len_telomeres_genes_ko
3	NA	0 / 0	
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Rank	p-value	#in/all	Geneset
1	0.002	3 / 110	regulation of cell cycle
2	0.003	2 / 33	nucleotide-excision repair, DNA incision, 5'-to-lesion
3	0.003	5 / 421	nervous system development
4	0.003	2 / 35	neuron apoptotic process
5	0.023	1 / 10	regulation of synaptic transmission, GABAergic
6	0.026	1 / 11	copper ion transport
7	0.026	1 / 11	generation of neurons
8	0.026	1 / 11	neural retina development
9	0.026	1 / 11	pre-mRNA cleavage required for polyadenylation
10	0.028	2 / 111	anatomical structure morphogenesis
11	0.028	1 / 12	negative regulation of microtubule polymerization
12	0.030	2 / 113	cell projection organization
13	0.030	1 / 13	muscle cell differentiation
14	0.030	1 / 13	plasma membrane organization
15	0.032	1 / 14	regulation of protein localization to plasma membrane

Rank	p-value	#in/all	Geneset
1	0.02	3 / 242	Chr 13
2	0.08	4 / 700	Chr 12
3	0.09	1 / 41	Chr 9
4	0.14	3 / 548	Chr 16
5	0.31	3 / 833	Chr 19
6	0.31	2 / 480	Chr 4
7	0.38	2 / 554	Chr 5
8	0.40	2 / 585	Chr 7
9	0.55	1 / 333	Chr 22
10	0.61	3 / 1325	Chr 1
11	0.65	1 / 437	Chr 8
12	0.69	1 / 490	Chr 10
13	0.63	1 / 592	Chr 9
14	0.80	1 / 669	Chr 6
15	0.81	1 / 689	Chr 3

Rank	p-value	#in/all	Geneset
1	0.02	4 / 421	Down_b
2	0.05	1 / 21	KIM deleted & downregulated in LTS
3	0.09	1 / 38	WILLSCHER_GBM_Verhaak-PNwt_up
4	0.10	1 / 43	Patel_stemness_signatures
5	0.12	1 / 52	GIEZEL_GBM_WT_down_VS_mut
6	0.14	1 / 66	GIEZEL_GBM_MGMTmethyl_down_VS_nonmethyl
7	0.15	1 / 67	Sturm_GBM_Meth_overexpression_I_RTK1_PDGFR4_UP
8	0.20	5 / 1343	Hopp_Sturm_GBM_Epi3_no_zentr_6_tetus_UP
9	0.21	1 / 102	WILLSCHER_GBM_Verhaak-PN (mut&wt)_up_(MES&CL down)
10	0.22	1 / 111	Christensen_hypermethylated_in_grade3_astrocytoma
11	0.24	1 / 115	WILLSCHER_GBM_Verhaak-CL_up_(C)
12	0.27	1 / 132	Christensen_hypermethylated_in_grade3_oligoastrocytoma
13	0.28	5 / 1523	Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
14	0.29	1 / 144	Christensen_hypermethylated_in_grade2_oligodendroglioma
15	0.32	1 / 163	Scov_0.999_Sturm_E1_IDH_DN

Rank	p-value	#in/all	Geneset
1	0.05	1 / 21	Angelova Immune-metagenes-central_memory_CD4
2	0.07	0 / 13	Angelova Immune-metagenes-activated_B-cells
3	1.00	0 / 26	Angelova Immune-metagenes-activated_CD4
4	1.00	0 / 19	Angelova Immune-metagenes-activated_CD8
5	1.00	0 / 17	Angelova Immune-metagenes-central_memory_CD8
6	1.00	0 / 7	Angelova Immune-metagenes-cytotoxic_cells
7	1.00	0 / 25	Angelova Immune-metagenes-DC
8	1.00	0 / 12	Angelova Immune-metagenes-effector_memory_CD4
9	1.00	0 / 32	Angelova Immune-metagenes-effector_memory_CD8
10	1.00	0 / 14	Angelova Immune-metagenes-eosinophil
11	1.00	0 / 19	Angelova Immune-metagenes-DC
12	1.00	0 / 13	Angelova Immune-metagenes-immature_B-cells
13	1.00	0 / 11	Angelova Immune-metagenes-macrophages
14	1.00	0 / 38	Angelova Immune-metagenes-mast-cells
15	1.00	0 / 8	Angelova Immune-metagenes-mDC

Rank	p-value	#in/all	Geneset
1	0.006	4 / 319	Gerber_w/wt_melanoma-cells-SpotA
2	0.026	3 / 276	Gerber_w/wt_melanoma-cells-SpotB
3	0.054	1 / 24	Tirosh_B-cell-specific_genes-melanoma
4	0.098	1 / 44	Tirosh_top50_correlated_genes_PC2
5	0.170	1 / 79	Tirosh_core_cycling_genes_in_low_and_high-proliferation_melanoma
6	0.333	1 / 171	Landsberg_dedifferentiation_up
7	0.355	1 / 185	Tirosh_genes_from_malignant_cells_in_Mel19-melanoma
8	0.420	1 / 230	Gerber_w/wt_melanoma-cells-SpotC
9	0.446	1 / 249	Gerber_w/wt_melanoma-cells-SpotE
10	0.696	1 / 497	Gerber_w/wt_melanoma-cells-SpotD
11	1.000	0 / 17	Hugo_melanoma-all-MET_UP
12	1.000	0 / 37	Hugo_melanoma-all-MET_DN
13	1.000	0 / 38	Hugo_melanoma-BRAFmut-MET_UP
14	1.000	0 / 5	Hugo_melanoma-BRAFmut-MET_DN
15	1.000	0 / 16	Hugo_melanoma-all-LEF1_UP

Rank	p-value	#in/all	Geneset
1	1	0 / 68	Burnham_sep_vs_con_UP
2	1	0 / 56	Burnham_sep_vs_con_DN
3	1	0 / 48	Burnham_cap_ip_vs_con_DN
4	1	0 / 71	Burnham_cap_ip_vs_con_UP
5	1	0 / 48	Burnham_viral_DN
6	1	0 / 57	Burnham_viral_UP
7	1	0 / 57	Burnham_day1_vs_5_UP
8	1	0 / 52	Burnham_day1_vs_5_DN
9	1	0 / 54	Burnham_timecourse
10	1	0 / 18	Scicluna_UP
11	1	0 / 41	Scicluna_DN
12	1	0 / 37	Sweeney_viral_up
13	1	0 / 33	Sweeney_viral_dn
14	1	0 / 122	Terre_ILNS_influenza_meta_signature
15	1	0 / 179	Terre_MSX_multiple_respiratory_viruses_dn

Rank	p-value	#in/all	Geneset
1	0.007	8 / 1241	KIM_MYC_targets
2	0.012	1 / 5	MYC_TFs
3	0.023	1 / 10	MYC_RNA_processing_binding_UP
4	0.031	6 / 1032	ICGC_Usf1_targets
5	0.136	1 / 62	MYC_Targets_UP
6	0.255	2 / 415	ICGC_XtraPcr1_targets
7	0.372	2 / 549	ICGC_Atf3_targets
8	0.456	8 / 3121	ICGC_Egr1_targets
9	0.488	3 / 1107	ICGC_Myc_targets
10	0.537	7 / 2899	ICGC_Natc1_targets
11	0.547	4 / 1636	ICGC_Bcl11_targets
12	0.554	9 / 3796	ICGC_Nficsc81335_targets
13	0.575	7 / 2994	ICGC_Zeb1_targets
14	0.646	3 / 1387	HEBENSTREIT_high_expression_TF
15	0.648	4 / 1848	ICGC_Pbx3_targets

Rank	p-value	#in/all	Geneset
1	3e-04	2 / 14	BENTINK_ras.1
2	2e-03	5 / 409	Lembcke_Normal_vs_Adenoma
3	4e-03	2 / 41	PanCan_DNARepair_geneset_nanostring
4	3e-02	1 / 12	BENTINK_e2f3.2
5	3e-02	1 / 15	RHODES_CANCER_META_SIGNATURE
6	3e-02	1 / 15	GENTLES_modul4
7	4e-02	1 / 16	WOLFER_overlap_genes
8	4e-02	2 / 130	PanCan_CC+Apop_geneset_nanostring
9	1e-01	1 / 47	PanCan_TGF-B_geneset_nanostring
10	2e-01	1 / 96	PanCan_TXmisReg_geneset_nanostring
11	4e-01	1 / 186	SPANX_LPS-index2
12	6e-01	0 / 14	LIU_PROSTATE_CANCER_DN
13	1e+00	0 / 15	RHODES_UNDIFFERENTIATED_CANCER
14	1e+00	0 / 16	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN
15	1e+00	0 / 14	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP

Rank	p-value	#in/all	Geneset
1	4e-05	27 / 6839	T_CD8+ naive cells peripheral blood_5_TxWk
2	2e-04	28 / 7833	Bcels_peripheral_blood_1_TssA
3	2e-04	27 / 7407	natural killer cells peripheral blood_5_TxWk
4	4e-04	29 / 8766	2_TssA_Melanocytes
5	5e-04	29 / 8865	Thelper_cells_peripheral_blood_7_Enh
6	6e-04	28 / 8275	2_TssA_Fibroblasts
7	6e-04	29 / 8918	1_TssA_ESC_Mesoderm
8	1e-03	29 / 9160	2_TssA_Neural_Progenitor
9	2e-03	15 / 3007	14_ZNF_Neural_Progenitor
10	2e-03	28 / 8641	1_TssA_ESC_Endoderm
11	2e-03	25 / 7078	Bcels_peripheral_blood_5_TxWk
12	2e-03	29 / 9298	Bcels_peripheral_blood_7_Enh
13	2e-03	26 / 7635	monocytes_peripheral_blood_1_TssA
14	2e-03	24 / 6693	5_Tx_Melanocytes
15	2e-03	28 / 8816	Thelper_cells_peripheral_blood_2_TssAFlnk

Rank	p-value	#in/all	Geneset
1	3e-05	9 / 726	PUJANA_CHEK2_PCC_NETWORK
2	3e-05	9 / 728	KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
3	4e-05	3 / 28	YU_BAP1_TARGETS
4	5e-05	10 / 966	KRIGE_TARGETS_OF_EWSR1_FLII_FUSION_UP
5	7e-05	3 / 34	REACTOME_G1_PHASE
6	1e-04	8 / 651	KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
7	1e-04	3 / 42	HUMMEL_BURKITTs_LYMPHOID

Overexpression Spots

Spot Summary: H

metagenes = 15
genes = 184

<r> metagenes = 0.97
<r> genes = 0.32
beta: r2= 5.82 / log p= -Inf

samples with spot = 24 (10.9 %)
mBL : 23 (52.3 %)
intermediate : 1 (2.1 %)

Spot Genelist

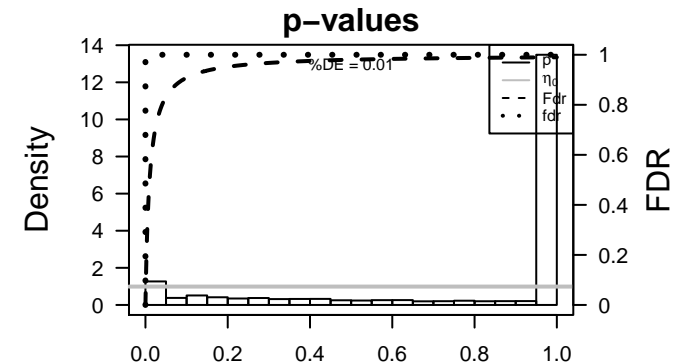
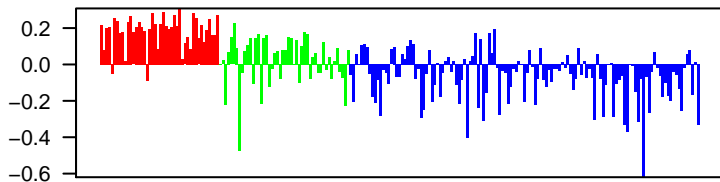
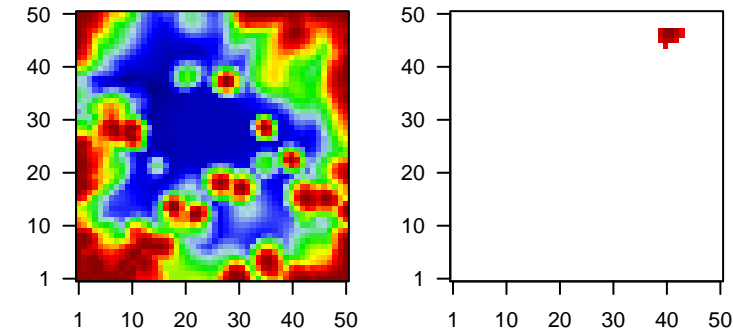
Rank	ID	max e	r	min e	Description
					Symbol
1	219733_s_at	1.48	-1.19	0.53	SLC27A5 solute carrier family 27 member 5 [Source:HGNC Symbol;Acc:HGNC:2398]
2	41037_at	1.43	-0.89	0.31	TEAD4 TEA domain transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:2398]
3	201927_s_at	1.42	-1.07	0.41	PKP4 plakophilin 4 [Source:HGNC Symbol;Acc:HGNC:9026]
4	221239_s_at	1.35	-1.87	0.33	FCRL2 Fc receptor like 2 [Source:HGNC Symbol;Acc:HGNC:14875]
5	213556_at	1.33	-0.71	0.29	PINLYP phospholipase A2 inhibitor and LY6/PLAUR domain containin
6	207396_s_at	1.29	-1.19	0.46	ALG3 ALG3, alpha-1,3- mannosyltransferase [Source:HGNC Syml
7	207621_s_at	1.21	-1.21	0.31	PEMT phosphatidylethanolamine N-methyltransferase [Source:HGNC
8	218296_x_at	1.2	-1.56	0.63	MSTO1 misato 1, mitochondrial distribution and morphology regulator
9	206777_s_at	1.2	-0.95	0.45	CRYBB2 crystallin beta B2 [Source:HGNC Symbol;Acc:HGNC:2398]
10	218944_at	1.16	-0.95	0.57	PYCR3 pyrroline-5-carboxylate reductase 3 [Source:HGNC Symbol;Acc:HGNC:2398]
11	205217_at	1.14	-1.41	0.44	TIMM8A translocase of inner mitochondrial membrane 8A [Source:HGNC
12	201802_at	1.13	-1.37	0.35	SLC29A1 solute carrier family 29 member 1 (Augustine blood group) [S
13	203782_s_at	1.09	-0.87	0.51	POLRMTRNA polymerase mitochondrial [Source:HGNC Symbol;Acc:HGNC:2398]
14	221629_x_at	1.05	-0.9	0.45	HGH1 HGH1 homolog [Source:HGNC Symbol;Acc:HGNC:24161]
15	212827_at	1.05	-2.46	0.29	immunoglobulin heavy constant mu [Source:HGNC Symbol;Acc:HGNC:2398]
16	202482_x_at	1.04	-1.02	0.41	RANBP1 RAN binding protein 1 [Source:HGNC Symbol;Acc:HGNC:98
17	212133_at	1.04	-1.1	0.36	NIPA2 non imprinted in Prader-Willi/Angelman syndrome 2 [Source:HGNC
18	202044_at	1.03	-1.01	0.35	ARHGAP35 GTPase activating protein 35 [Source:HGNC Symbol;Acc:HGNC:2398]
19	212996_s_at	1.03	-1.18	0.48	URB1 URB1 ribosome biogenesis 1 homolog (S. cerevisiae) [Source:HGNC
20	203188_at	1.03	-0.55	0.5	B4GAT1 beta-1,4-glucuronyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:2398]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-38	66 / 728	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
2	6e-27	37 / 280	GSE# MANALO_HYPOXIA_DN
3	5e-24	28 / 158	GSE# BILD_MYC_ONCOGENIC_SIGNATURE
4	2e-23	48 / 651	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
5	1e-22	19 / 55	HM HALLMARK_MYC_TARGETS_V2
6	2e-19	45 / 703	GSE# LEE_BMP2_TARGETS_DN
7	1e-18	18 / 72	GSE# SCHUHMACHER_MYC_TARGETS_UP
8	9e-18	39 / 575	GSE# CAIRO_HEPATOBLASTOMA_CLASSES_UP
9	2e-16	61 / 1527	GSE# PUJANA_BRCA1_PCC_NETWORK
10	5e-14	26 / 314	GSE# PENG_GLUTAMINE_DEPRIVATION_DN
11	6e-14	21 / 190	HM HALLMARK_MYC_TARGETS_V1
12	4e-13	20 / 186	GSE# DUTERTRE ESTRADIOL_RESPONSE_6HR_UP
13	6e-13	37 / 726	GSE# PUJANA_CHEK2_PCC_NETWORK
14	9e-13	17 / 129	GSE# WELCSH_BRCA1_TARGETS_DN
15	3e-12	34 / 653	CC nucleolus
16	3e-11	17 / 159	GSE# SANSOM_APC_TARGETS_REQUIRE_MYC
17	6e-11	44 / 1161	MF RNA binding
18	1e-10	30 / 590	GSE# GRAESSMANN_RESPONSE_TO_MC_AND_DOXORUBICIN_DN
19	2e-10	39 / 966	GSE# KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
20	1e-09	16 / 174	BP rRNA processing
21	1e-09	13 / 107	GSE# BROWN_MYELOID_CELL_DEVELOPMENT_DN
22	1e-09	9 / 39	GSE# IRITANI_MAD1_TARGETS_DN
23	2e-09	18 / 233	GSE# PENG_RAPAMYCIN_RESPONSE_DN
24	2e-09	20 / 295	GSE# TARTE_PLASMA_CELL_VS_PLASMABLAST_DN
25	3e-09	20 / 305	Lymp TARTE_PlasmaBlast signature
26	3e-09	8 / 30	CC small-subunit processome
27	5e-09	28 / 602	Color Pentrack_CRC_TCGA_corr_R_normal_DN
28	5e-09	16 / 193	GSE# TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_MONOCYTE_UP
29	7e-09	10 / 62	TF MYC_Targets UP
30	7e-09	28 / 616	GSE# WEI_MYCN_TARGETS_WITH_E_BOX
31	8e-09	20 / 322	GSE# MONNIER_POSTRADIATION_TUMOR_ESCAPE_UP
32	1e-08	26 / 546	GSE# MARTENS_TRETINOIN_RESPONSE_DN
33	2e-08	20 / 335	GSE# BENPORATH_ES_1
34	3e-08	38 / 1107	TF ICGC_Myc_targets
35	3e-08	16 / 220	GSE# BHAT_ESR1_TARGETS_VIA_AKT1_UP
36	4e-08	23 / 466	GSE# BERENJENO_TRANSFORMED_BY_RHOA_UP
37	6e-08	19 / 327	GSE# CUI_TCF21_TARGETS_2_UP
38	8e-08	17 / 268	GSE# MUELLER_PLURINET
39	9e-08	8 / 44	GSE# SCHLOSSER_MYC_TARGETS_AND_SERUM_RESPONSE_UP
40	9e-08	9 / 61	GSE# ZHANG_RESPONSE_TO_CANTHARIDIN_DN

Overview Map

Spot



Aging Rank	p-value	#in/all	Geneset
1	0.7	1 / 92	HORVATH_aging_genes_meth_DOWN
2	1.0	0 / 107	HORVATH_aging_genes_meth_UP
3	1.0	0 / 47	TSCHEMDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

BP Rank	p-value	#in/all	Geneset
1	1e-09	16 / 1774	rRNA processing
2	2e-09	5 / 27	maturation of SSU-rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S r
3	1e-04	5 / 38	lactation
4	6e-04	8 / 144	methylation
5	7e-04	3 / 14	positive regulation of telomerase RNA localization to Cajal body
6	7e-04	13 / 351	cellular response to DNA damage stimulus
7	5 / 59	5 / 59	positive regulation of protein targeting to mitochondrion
8	1e-03	11 / 281	DNA repair
9	2e-03	3 / 20	ribosomal large subunit biogenesis
10	2e-03	5 / 71	mitochondrion organization
11	3e-03	5 / 76	DNA recombination
12	5 / 76	5 / 76	ribosome biogenesis
13	5e-03	3 / 26	exonucleolytic nuclear-transcribed mRNA catabolic process involved in dead
14	5e-03	3 / 27	DNA biosynthetic process
15	6e-03	4 / 56	cellular response to drug

Cancer Rank	p-value	#in/all	Geneset
1	2e-06	19 / 409	Lembcke_Normal vs Adenoma
2	3e-05	4 / 14	BENTINK_myc.1
3	1e-04	5 / 36	ZHANG_MM_up
4	1e-03	3 / 16	WOLFER_overlap_genes
5	2e-03	4 / 41	PanCan_DNARepair_genetes_nanostring
6	3e-03	1 / 11	LIU_PROSTATATE_CANCER_UP
7	7e-03	4 / 58	SHAUGHNESSY_MM_high_risk
8	2e-02	2 / 16	GENTLES_modul6
9	2e-02	3 / 45	KUIPER_MM_poor_survival
10	3e-02	5 / 130	PanCan_CC+Apop_genetes_nanostring
11	4e-02	1 / 15	RHODES_CANCER_META_SIGNATURE
12	5e-02	0 / 15	RHODES_UNDIFFERENTIATED_CANCER
13	1e-01	0 / 14	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
14	1e-01	1 / 10	GENTLES_modul5
15	2e-01	1 / 13	GENTLES_modul1

CC Rank	p-value	#in/all	Geneset
1	3e-12	34 / 653	nucleolus
2	3e-09	8 / 30	small-subunit processome
3	1e-07	17 / 277	mitochondrial matrix
4	2e-07	93 / 4579	nucleus
5	5e-07	61 / 2541	nucleoplasm
6	3e-06	36 / 1221	mitochondrion
7	2e-04	12 / 268	intracellular ribonucleoprotein complex
8	6e-04	3 / 7	exosome (RNase complex)
9	2e-03	3 / 20	preribosome, large subunit precursor
10	3e-03	6 / 107	fibrillar center
11	7e-03	2 / 10	Swr1 complex
12	9e-03	2 / 11	Fanconi anaemia nuclear complex
13	1e-02	2 / 12	In90 complex
14	1e-02	3 / 38	mitochondrial nucleoid
15	1e-02	4 / 70	nuclear pore

Chr Rank	p-value	#in/all	Geneset
1	0.006	15 / 548	Chr 16
2	0.013	19 / 833	Chr 19
3	0.024	1 / 369	Chr 2
4	0.071	15 / 756	Chr 11
5	0.110	4 / 139	Chr 21
6	0.148	7 / 333	Chr 22
7	0.392	4 / 242	Chr 13
8	0.418	1 / 41	Chr Y
9	0.463	0 / 480	Chr 10
10	0.553	9 / 689	Chr 3
11	0.612	5 / 403	Chr 14
12	0.657	10 / 832	Chr 2
13	0.683	5 / 597	Chr 8
14	0.695	9 / 776	Chr 17
15	0.742	4 / 382	Chr 15

Chromatin states Rank	p-value	#in/all	Geneset
1	6e-16	156 / 8370	natural killer cells peripheral blood_2_TssAFInk
2	7e-16	152 / 7957	Tcells_peripheral_blood_2_TssAFInk
3	5e-15	155 / 8406	Bcells_peripheral_blood_2_TssAFInk
4	6e-15	153 / 8200	monocytes_peripheral_blood_2_TssAFInk
5	5e-14	152 / 8245	Regulatory_cells_peripheral_blood_2_TssAFInk
6	2e-13	147 / 7833	Bcells_peripheral_blood_1_TssA
7	4e-13	156 / 8816	Thelper_cells_peripheral_blood_2_TssAFInk
8	1e-12	148 / 8069	Thelper_cells_peripheral_blood_1_TssA
9	6e-12	136 / 6937	Overlap_fetal_midbrain_K9K27me3
10	6e-12	75 / 2704	4_TxTrans_Fibroblasts
11	1e-11	149 / 8322	T_CD8+ naive cells peripheral blood_1_TssA
12	1e-11	92 / 3803	6_EnHG_Fibroblasts
13	2e-11	153 / 8766	2_TssA_Melanocytes
14	2e-11	136 / 7165	1_Tx_Colon
15	2e-11	148 / 8275	2_TssA_Fibroblasts

Colon Cancer Rank	p-value	#in/all	Geneset
1	5e-09	28 / 602	Pentrack_CRC_TCGA_corr_R_normal_DN
2	3e-07	24 / 561	Pentrack_CRC_TCGA_group_over_C_normal_DN
3	2e-04	10 / 184	Kosinski_lower_crypt-long_list
4	5e-02	12 / 539	Lembcke_TCGA_meth_kmeans_L_CIMP_H_DN
5	8e-02	1 / 6	Hewish_dMMR-secondary-mutations_Transcriptional_regulation
6	8e-02	1 / 6	Marisa_CRC-C6
7	9e-02	1 / 7	TCGA_Mutated-in-CRC_mismatch-repair-genes
8	1e-01	3 / 83	Marisa_CRC-cluster-d
9	1e-01	1 / 12	Juehling-MSI-enriched-in-6
10	2e-01	1 / 14	Hewish_dMMR-secondary-mutations_DNA-repair
11	2e-01	27 / 1729	LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_t
12	3e-01	18 / 1174	LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse_colo
13	5e-01	4 / 290	Lembcke_TCGA_meth_kmeans_O_CIMP_H_DN
14	6e-01	9 / 738	Lembcke_TCGA-expr_kmeans_N_CIMP_H_DN
15	7e-01	6 / 532	LaPointe_mucosa-position_kmeans_B_ascending_colon_transverse_colon_U

Glioma Rank	p-value	#in/all	Geneset
1	1e-06	9 / 81	GIEZELT_GBM_MGMTmethyl_up_VS_nonmethyl
2	7e-03	16 / 614	Sturm_GBM_Meth_overexpression_E_G34_UP
3	3e-02	26 / 1343	Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
4	4e-02	28 / 1523	Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
5	1e-01	1 / 39	WILLSCHEER_GBM_LTSwt_proteomics-A_UP
6	1e-01	1 / 11	WILLSCHEER_GBM_LTSwt_proteomics-C_UP
7	1e-01	2 / 52	GIEZELT_GBM_WT_down_VS_mut
8	2e-01	1 / 13	WILLSCHEER_GBM_STSwt_proteomics-O_UP
9	2e-01	2 / 58	Suehler_Proteins_up_in_STS
10	3e-01	1 / 21	Hoeft_Sturm_GBM_Epi3_E1_G34_DN
11	3e-01	1 / 31	WILLSCHEER_GBM_proteomics_wtOnly_SpotC
12	3e-01	1 / 32	WIRTH_PN_targets
13	4e-01	1 / 33	Sturm_GBM_Meth_overexpression_F_IDH_UP
14	4e-01	1 / 34	WILLSCHEER_GBM_proteomics_wtOnly_SpotH
15	4e-01	1 / 35	Gorovets_LGG_EPL_subclass

GSEA C2 Rank	p-value	#in/all	Geneset
1	1e-38	66 / 728	KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
2	6e-27	37 / 280	MANALO_HYOXIA_DN
3	5e-24	28 / 158	BILD_MYC_ONCOGENIC_SIGNATURE
4	2e-23	48 / 651	KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
5	2e-19	45 / 703	LEE_BMP2_TARGETS_DN
6	1e-18	18 / 72	SCHUMACHER_MYC_TARGETS_UP
7	9e-18	39 / 575	CAIRO_HEPATBLASTOMA_CLASSES_UP
8	2e-16	16 / 1527	PUJANA_BRCA1_PCC_NETWORK
9	5e-14	26 / 314	PENG_GLUTAMINE_DEPRIVATION_DN
10	4e-13	20 / 186	DUTTERRE ESTRADIOL_RESPONSE_6HR_UP
11	6e-13	37 / 726	PUJANA_CHEK2_PCC_NETWORK
12	9e-13	17 / 129	WELSH_BRCA1_TARGETS_DN
13	3e-11	17 / 159	SANSOM_APC_TARGETS_REQUIRE_MYC
14	1e-10	30 / 590	GRAESSMANN_RESPONSE_TO_MC_AND_DOXORUBICIN_DN
15	2e-10	39 / 966	KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP

BM Rank	p-value	#in/all	Geneset
1	1e-22	19 / 55	HALLMARK_MYC_TARGETS_V1
2	6e-14	21 / 190	HALLMARK_MYC_TARGETS_V2
3	2e-07	14 / 187	HALLMARK_E2F_TARGETS
4	1e-05	9 / 106	HALLMARK_UNFOLDED_PROTEIN_RESPONSE
5	4e-03	8 / 195	HALLMARK_G2M_CHECKPOINT
6	1e-02	8 / 152	HALLMARK_MTORC1_SIGNALING
7	3e-02	6 / 174	HALLMARK_ADIPOGENESIS
8	3e-02	6 / 181	HALLMARK_XENOBIOTIC_METABOLISM
9	4e-02	3 / 59	HALLMARK_CHOLESTEROL_HOMEOSTASIS
10	4e-02	6 / 194	HALLMARK_ESTROGEN_RESPONSE_EARLY
11	5 / 193	5 / 193	HALLMARK_ESTROGEN_RESPONSE_LATE
12	1e-01	3 / 97	HALLMARK_BILE_ACID_METABOLISM
13	3e-01	3 / 133	HALLMARK_DNA_REPAIR
14	3e-01	3 / 149	HALLMARK_UV_RESPONSE_UP
15	4e-01	2 / 96	HALLMARK_ANDROGEN_RESPONSE

Immunome Rank	p-value	#in/all	Geneset
1	0.03	2 / 19	Angelova Immune-metagenes-Activated_CD8
2	0.06	5	Angelova Immune-metagenes-NK56_bright
3	0.16	1 / 13	Angelova Immune-metagenes-immature_B-cells
4	0.21	1 / 18	Angelova Immune-metagenes-pDC
5	1.00	0 / 13	Angelova Immune-metagenes-activated_CD4
6	1.00	0 / 21	Angelova Immune-metagenes-central_memory_CD4
7	1.00	0 / 17	Angelova Immune-metagenes-central_memory_CD8
8	1.00	0 / 7	Angelova Immune-metagenes-cytotoxic_cells
9	1.00	0 / 25	Angelova Immune-metagenes-DC
10	1.00	0 / 12	Angelova Immune-metagenes-activated_CD4
11	1.00	0 / 32	Angelova Immune-metagenes-effector_memory_CD4
12	1.00	0 / 32	Angelova Immune-metagenes-effector_memory_CD8
13	1.00	0 / 14	Angelova Immune-metagenes-eosinophil
14	1.00	0 / 19	Angelova Immune-metagenes-IDC
15	1.00	0 / 11	Angelova Immune-metagenes-macrophages

Lifestyle Rank	p-value	#in/all	Geneset
1	0.2	1 / 16	DUMEAUX_Red blood cells in non smokers literature genes up
2	0.3	1 / 22	DUMEAUX_High bmi enriched genes
3	0.3	3 / 150	Homuth_BMI-associated_genes_UP
4	0.3	1 / 32	Marjolein_ageing_genes_DN
5	0.8	2 / 210	Horuth_BMI-associated_genes_DN
6	1.0	0 / 62	DUMEAUX_Smoking enriched genes
7	1.0	0 / 10	DUMEAUX_Smoking literature genes up
8	1.0	0 / 4	DUMEAUX_Exercise non smoker literature enriched genes
9	1.0	0 / 5	DUMEAUX_Estrogen related in smokers literature genes up
10	1.0	0 / 7	DUMEAUX_Estrogen related in non smokers literature genes up
11	1.0	0 / 7	DUMEAUX_Hormon therapy in non smokers literature genes up
12	1.0	0 / 9	DUMEAUX_Monocytes in smokers literature genes up
13	1.0	0 / 12	DUMEAUX_Women normal BMI literature genes up
14	1.0	0 / 22	DUMEAUX_Fasting enriched genes
15	1.0	0 / 14	Huan_blood-pressure_SBP-signature

Lymphoma Rank	p-value	#in/all	Geneset
1	3e-09	20 / 305	TARTE_PlasmaBlast signature
2	6e-07	87 / 4261	HOPP_Txn_transition
3	3e-05	10 / 173	Victoria_Light_zone_signature
4	2e-04	96 / 5529	HOPP_Txn_elongation
5	6e-04	99 / 5908	HOPP_Active_promoter
6	2e-03	6 / 97	ROSLOWSKI_red_total
7	5e-03	88 / 5404	HOPP_Strong_enhancer
8	1e-09	5 / 9	Stia_BL_UP
9	2e-02	2 / 18	WRIGHT_ABC_UP
10	3e-02	4 / 85	Aukema_BCL2_DN_BCL6_UP
11	3e-02	4 / 88	ROSLOWSKI_green_UP
12	4e-02	2 / 25	ROSLOWSKI_red_UP
13	4e-02	9 / 353	Spotlight_CD40_genes_DN
14	5e-02	18 / 906	SPANG_BCR_DN
15	7e-02	4 / 121	ROSLOWSKI_green_total

Melanoma Rank	p-value	#in/all	Geneset
1	1e-07	17 / 276	Gerber_wt/wt_melanoma-cells-SpotB
2	9e-02	2 / 38	Tirosh_top50 correlated genes PC1
3	1e-01	7 / 319	Gerber_wt/wt_melanoma-cells-SpotA
4	3e-01	2 / 79	Tirosh_core cycling genes in low- and high-proliferation melanoma
5	3e-01	2 / 81	Tirosh_Genes in the MITF program
6	3e-01	4 / 222	Gerber_wt/wt_melanoma-cells-SpotF
7	4e-01	4 / 230	Gerber_wt/wt_melanoma-cells-SpotC
8	4e-01	1 / 39	Tirosh_melanoma specific genes
9	4e-01	4 / 249	Gerber_wt/wt_melanoma-cells-SpotE
10	4e-01	3 / 185	Tirosh_genes from malignant cells in Mel179-melanoma
11	4e-01	1 / 44	Tirosh_top50 correlated genes PC2
12	6e-01	1 / 65	Harbst_melanoma_highgrade_up
13	7e-01	1 / 75	Tirosh_Endothelial_cell specific genes-melanoma
14	7e-01	2 / 189	Tirosh_genes preferentially expressed by Tregs
15	8e-01	2 / 236	Gerber_wt/wt_group3-specific

MF Rank	p-value	#in/all	Geneset
1	6e-11	44 / 1161	RNA binding
2	1e-05	14 / 267	binding
3	5e-05	4 / 16	snRNA binding
4	5e-04	4 / 28	Ran_GTPase_binding
5	5e-04	7 / 106	ligase activity
6	1e-03	3 / 16	3-5-exoribonuclease activity
7	2e-03	3 / 19	DNA_helicase activity
8	2e-03	3 / 20	DNA-directed DNA polymerase activity
9	4e-03	3 / 24	TBP-class protein binding
10	4e-03	3 / 25	nuclear localization sequence binding
11	4e-03	5 / 81	single-stranded DNA binding
12	6e-03	3 / 28	ATP-dependent DNA helicase activity
13	7e-03	2 / 10	neutral amino acid transmembrane transporter activity
14	8e-03	28 / 1329	transferase activity
15	8e-03	6 / 132	methyltransferase activity

miRNA target Rank	p-value	#in/all	Geneset
1	0.02	2 / 16	hsa-miR-380*
2	0.03	2 / 19	hsa-miR-943
3	0.03	3 / 49	hsa-miR-671-5p
4	0.03	3 / 87	hsa-miR-146b-5p
5	0.03	4 / 89	hsa-miR-146a
6	0.04	3 / 55	hsa-miR-637
7	0.04	3 / 59	hsa-miR-1266
8	0.05	2 / 26	hsa-miR-934
9	0.05	1 / 64	hsa-miR-1486-3p
10	0.06	2 / 30	hsa-miR-518e
11	0.06	1 / 5	hsa-miR-339-3p
12	0.06	1 / 5	hsa-miR-126
13	0.07	3 / 73	hsa-miR-423-5p
14	0.07	2 / 34	hsa-miR-760
15	0.07	5 / 171	hsa-miR-196a

Pneumonia Rank

Overexpression Spots

Spot Summary: I

metagenes = 9
genes = 175

<r> metagenes = 0.98
<r> genes = 0.4
beta: r2= 7.91 / log p= -Inf

samples with spot = 31 (14 %)

mBL : 27 (61.4 %)
intermediate : 2 (4.2 %)
non-mBL : 2 (1.6 %)

Spot Genelist

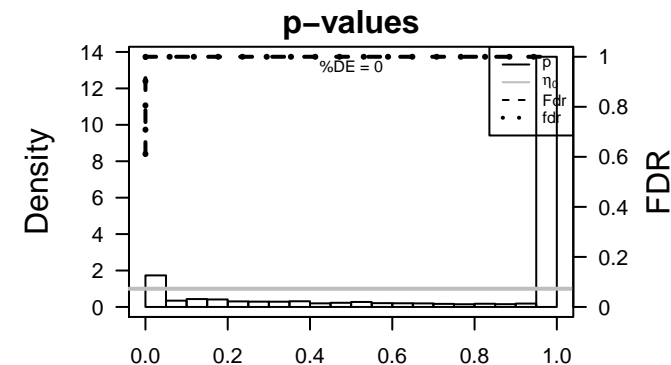
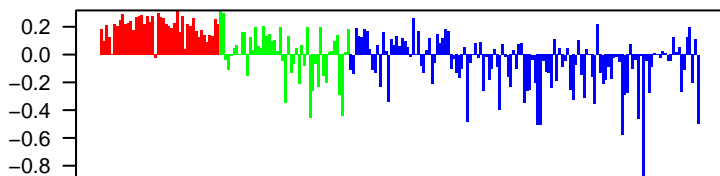
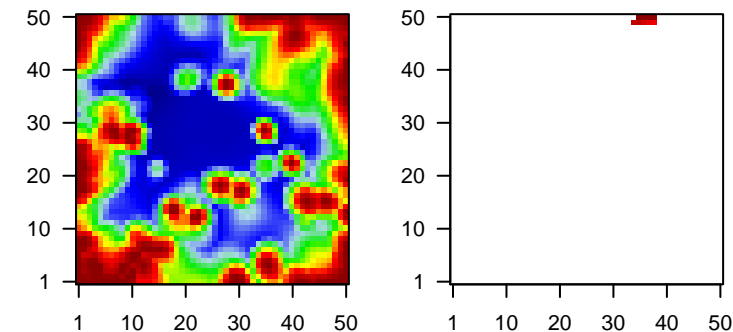
Rank	ID	max e	r	min e	Description
					Symbol
1	205190_at	1.86	-1.09	0.47	PLS1 plastin 1 [Source:HGNC Symbol;Acc:HGNC:9090]
2	217127_at	1.5	-1.12	0.4	CTH cystathionine gamma-lyase [Source:HGNC Symbol;Acc:HGNC:10000]
3	204720_s_at	1.4	-1.15	0.38	DNAJC6 DnaJ heat shock protein family (Hsp40) member C6 [Source:HGNC Symbol;Acc:HGNC:10000]
4	213610_s_at	1.38	-1.42	0.49	KLHL23 kelch like family member 23 [Source:HGNC Symbol;Acc:HGNC:10000]
5	204430_s_at	1.22	-1.69	0.22	SLC2A5 solute carrier family 2 member 5 [Source:HGNC Symbol;Acc:HGNC:10000]
6	222228_s_at	1.16	-0.71	0.31	ALKBH4 alkB homolog 4, lysine demethylase [Source:HGNC Symbol;Acc:HGNC:10000]
7	210389_x_at	1.15	-1.08	0.5	TUBD1 tubulin delta 1 [Source:HGNC Symbol;Acc:HGNC:16811]
8	203946_s_at	1.1	-1.07	0.33	ARG2 arginase 2 [Source:HGNC Symbol;Acc:HGNC:664]
9	207480_s_at	1.09	-1.49	0.3	MEIS2 Meis homeobox 2 [Source:HGNC Symbol;Acc:HGNC:7001]
10	205071_x_at	1.05	-0.85	0.55	XRCC4 X-ray repair cross complementing 4 [Source:HGNC Symbol;Acc:HGNC:10000]
11	202830_s_at	1.02	-0.91	0.46	SLC37A4 solute carrier family 37 member 4 [Source:HGNC Symbol;Acc:HGNC:10000]
12	211793_s_at	1	-0.93	0.34	ABI2 abi interactor 2 [Source:HGNC Symbol;Acc:HGNC:24011]
13	205034_at	1	-1.56	0.72	CCNE2 cyclin E2 [Source:HGNC Symbol;Acc:HGNC:1590]
14	218857_s_at	0.98	-1.13	0.44	ASRGL1 asparaginase like 1 [Source:HGNC Symbol;Acc:HGNC:16441]
15	215519_x_at	0.97	-0.9	0.36	
16	205628_at	0.96	-1.11	0.54	PRIM2 DNA primase subunit 2 [Source:HGNC Symbol;Acc:HGNC:9000]
17	203869_at	0.95	-1.05	0.36	USP46 ubiquitin specific peptidase 46 [Source:HGNC Symbol;Acc:HGNC:10000]
18	203565_s_at	0.93	-1.18	0.54	MNAT1 MNAT1, CDK activating kinase assembly factor [Source:HGNC Symbol;Acc:HGNC:10000]
19	214358_at	0.92	-0.93	0.52	ACACA acetyl-CoA carboxylase alpha [Source:HGNC Symbol;Acc:HGNC:10000]
20	210559_s_at	0.91	-1.25	0.81	CDK1 cyclin dependent kinase 1 [Source:HGNC Symbol;Acc:HGNC:10000]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	4e-98	85 / 319	Melar Gerber_wt/wt_melanoma-cells-SpotA
2	2e-86	59 / 115	Gliom WILLSCHEER_GBM_Verhaak-CL_up (C)
3	4e-85	72 / 244	GSE# KOBAYASHI_EGFR_SIGNALING_24HR_DN
4	2e-82	60 / 137	GSE# ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
5	1e-74	78 / 431	GSE# GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
6	1e-74	100 / 966	GSE# KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
7	6e-65	61 / 254	GSE# DUTERTRE_ESTRADIOL_RESPONSE_24HR_UP
8	2e-63	8 / 14	Cancr SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
9	2e-63	8 / 14	Cancr SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
10	4e-59	68 / 439	GSE# SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
11	4e-56	53 / 219	Refer WIRTH_GC_B-cells
12	4e-55	41 / 95	GSE# O'DONNELL_TFR3_TARGETS_DN
13	1e-53	68 / 526	GSE# MARSON_BOUND_BY_E2F4_UNSTIMULATED
14	5e-52	47 / 174	GSE# GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP
15	3e-48	46 / 192	Lymp Victora_Dark zone signature
16	2e-47	64 / 548	GSE# BENPORATH_CYCLING_GENES
17	2e-46	71 / 758	GSE# NUYTEN_EZH2_TARGETS_DN
18	2e-45	56 / 400	GSE# PUJANA_BRCA2_PCC_NETWORK
19	8e-45	56 / 409	Cancr Lembcke_Normal vs Adenoma
20	2e-44	35 / 93	GSE# CROONQUIST_IL6_DEPRIVATION_DN
21	2e-42	46 / 250	GSE# HORIUCHI_WTAP_TARGETS_DN
22	3e-41	49 / 321	GSE# BLUM_RESPONSE_TO_SALIRASIB_DN
23	8e-41	27 / 47	Melar Tirosh_G2M phase specific genes
24	3e-40	43 / 226	GSE# ZHANG_TLX_TARGETS_60HR_DN
25	6e-40	36 / 131	GSE# WINNEPENNINCKX_MELANOMA_METASTASIS_UP
26	1e-39	31 / 81	GSE# KONG_E2F3_TARGETS
27	2e-39	45 / 271	GSE# REACTOME_CELL_CYCLE_MITOTIC
28	4e-39	27 / 52	GSE# KANG_DOXORUBICIN_RESISTANCE_UP
29	5e-39	43 / 241	GSE# BASAKI_YBX1_TARGETS_UP
30	1e-38	36 / 141	GSE# CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP
31	1e-38	34 / 117	GSE# CHANG_CYCLING_GENES
32	3e-38	48 / 347	GSE# REACTOME_CELL_CYCLE
33	4e-38	39 / 187	HM HALLMARK_E2F_TARGETS
34	7e-38	36 / 147	GSE# HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP
35	8e-38	72 / 1052	GSE# DODD_NASOPHARYNGEAL_CARCINOMA_DN
36	7e-36	31 / 102	GSE# WHITEFORD_PEDIATRIC_CANCER_MARKERS
37	8e-36	30 / 92	GSE# BURTON_ADIPOGENESIS_3
38	8e-36	30 / 92	GSE# LEE_EARLY_T_LYMPHOCYTE_UP
39	2e-35	52 / 497	BP cell cycle
40	5e-35	43 / 297	GSE# GOLDRATH_ANTIGEN_RESPONSE

Overview Map

Spot



Rank	p-value	#in/all	Geneset
1	0.7	1 / 107	HORVATH_aging_genes_meth_UP
2	1.0	0 / 82	HORVATH_aging_genes_meth_DOWN
3	1.0	0 / 47	TESCHENDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

CC Rank	p-value	#in/all	Geneset
1	3e-19	21 / 118	chromosome, centromeric region
2	6e-19	23 / 157	spindle
3	1e-17	39 / 324	chromosome
4	3e-15	17 / 101	kinetochore
5	1e-14	15 / 77	condensed chromosome kinetochore
6	6e-14	17 / 121	midbody
7	3e-13	70 / 2541	nucleoplasm
8	1e-12	96 / 4579	nucleus
9	4e-12	10 / 34	kinesin complex
10	1e-11	38 / 936	cytoskeleton
11	1e-10	13 / 98	spindle pole
12	1e-10	19 / 251	microtubule
13	2e-10	22 / 354	centrosome
14	2e-09	7 / 20	spindle midzone
15	4e-09	80 / 3805	cytosol

Colon Cancer Rank	p-value	#in/all	Geneset
1	3e-16	22 / 184	Kosinski_lower_crypt-long-list
2	1e-05	20 / 561	Pentrack_CRC_TCGA_corr_R_normal_DN
3	5e-04	4 / 31	Kosinski_lower_crypt-short-list
4	5e-03	15 / 602	Pentrack_CRC_TCGA_corr_R_normal_DN
5	1e-02	61 / 1729	LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_t
6	2e-02	1 / 2	Hewish_dMMR-secondary-mutations_Cell-motility
7	6e-02	17 / 958	LaPointe_mucosa-position_kmeans_D_transverse_colon_UP
8	6e-02	20 / 1174	LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse_colo
9	8e-02	15 / 848	LaPointe_mucosa-position_kmeans_O_transverse_colon_UP
10	9e-02	1 / 7	TOGA_Mutated-in_CRC_mismatch-repair-genes
11	9e-02	1 / 8	Boland_CRC-MMR-system
12	9e-02	1 / 8	Marisa_CRC-C1
13	9e-02	1 / 8	Marisa_CRC-C3
14	2e-01	1 / 14	Hewish_dMMR-secondary-mutations_DNA-repair
15	2e-01	1 / 18	Boland_CRC-MSI-A6-A10

LM Rank	p-value	#in/all	Geneset
1	4e-38	39 / 187	HALLMARK_E2F_TARGETS
2	4e-33	36 / 195	HALLMARK_G2M_CHECKPOINT
3	8e-17	22 / 173	HALLMARK_MITOTIC_SPINDLE
4	2e-08	12 / 122	HALLMARK_SPERMATOGENESIS
5	2e-03	8 / 192	HALLMARK_MTORC1_SIGNALING
6	6e-03	7 / 192	HALLMARK_GLYCOLYSIS
7	8e-03	7 / 193	HALLMARK_ESTROGEN_RESPONSE_LATE
8	2e-02	5 / 133	HALLMARK_DNA_REPAIR
9	8e-02	4 / 139	HALLMARK_FATTY_ACID_METABOLISM
10	1e-01	2 / 55	HALLMARK_MVC_TARGETS_V2
11	4e-01	4 / 190	HALLMARK_MVC_TARGETS_V1
12	3e-01	3 / 149	HALLMARK_UV_RESPONSE_UP
13	3e-01	3 / 150	HALLMARK_APOPTOSIS
14	3e-01	2 / 97	HALLMARK_PI3K_AKT_MTOR_SIGNALING
15	3e-01	2 / 97	HALLMARK_PEROXISOME

Lymphoma Rank	p-value	#in/all	Geneset
1	3e-48	46 / 192	Victoria_Dark zone signature
2	4e-20	122 / 5529	HOPP_Txn_elongation
3	2e-14	25 / 305	TARTE_Plasmablast signature
4	9e-14	116 / 5908	HOPP_Active_promoter
5	2e-07	82 / 4261	HOPP_Txn_transition
6	7e-06	28 / 955	SPANG_BCR_UP
7	1e-05	94 / 5682	HOPP_Weak_promoter
8	2e-04	7 / 102	ROSLOVWSKI_blue total
9	1e-03	6 / 99	Sha_BL_UP
10	4e-03	81 / 5404	HOPP_Strong_enhancer
11	5e-03	6 / 135	DAVE_BL-vs-DLBCL
12	2e-02	65 / 4357	HOPP_Weak_Dn
13	3e-02	68 / 4559	HOPP_Weak_enhancer
14	4e-02	6 / 213	SPANG_IL21_DN
15	2e-01	1 / 15	BENTINK_mBL_UP

miRNA target Rank	p-value	#in/all	Geneset
1	0.004	13 / 474	hsa-miR-20a
2	0.007	8 / 232	hsa-miR-186
3	0.013	3 / 41	hsa-miR-518e*
4	0.016	4 / 32	hsa-miR-210
5	0.017	3 / 46	hsa-miR-208a
6	0.021	2 / 19	hsa-miR-943
7	0.024	5 / 137	hsa-miR-580
8	0.027	8 / 299	hsa-let-7c
9	0.030	4 / 98	hsa-miR-520a-5p
10	0.030	2 / 23	hsa-miR-617
11	0.030	6 / 197	hsa-miR-122
12	0.036	3 / 61	hsa-miR-619
13	0.036	7 / 261	hsa-let-7a
14	0.046	2 / 29	hsa-miR-1231
15	0.048	4 / 115	hsa-miR-135a

Telomeres Rank	p-value	#in/all	Geneset
1	0.01	2 / 13	Alternative lengthening of telomeres
2	0.28	1 / 27	Nabetani_alt len telomeres_genes_ko
3	NA	0 / 0	
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

BP Rank	p-value	#in/all	Geneset
1	2e-35	52 / 497	cell cycle
2	2e-34	43 / 307	cell division
3	1e-21	21 / 91	sister chromatid cohesion
4	2e-15	19 / 137	DNA replication
5	3e-15	15 / 70	chromosome segregation
6	8e-13	15 / 101	mitotic cell cycle
7	6e-7	8 / 21	mitotic sister chromatid segregation
8	6e-11	8 / 21	telomere maintenance via semi-conservative replication
9	9e-11	7 / 14	chromosome condensation
10	1e-10	14 / 119	G2/M transition of mitotic cell cycle
11	7e-10	11 / 71	regulation of G2/M transition of mitotic cell cycle
12	2e-12	8 / 31	DNA replication initiation
13	1e-08	11 / 91	G1/S transition of mitotic cell cycle
14	1e-08	8 / 38	mitotic cytokinesis
15	3e-08	6 / 17	spindle organization

Chr Rank	p-value	#in/all	Geneset
1	0.05	9 / 403	Chr 14
2	0.07	5 / 184	Chr 18
3	0.13	9 / 490	Chr 10
4	0.17	7 / 382	Chr 15
5	0.21	8 / 480	Chr 4
6	0.23	19 / 1325	Chr 1
7	0.32	11 / 776	Chr 17
8	0.33	8 / 548	Chr 16
9	0.36	5 / 333	Chr 22
10	0.42	6 / 437	Chr 8
11	0.53	6 / 492	Chr 9
12	0.55	9 / 756	Chr 11
13	0.55	3 / 242	Chr 13
14	0.64	4 / 369	Chr 20
15	0.65	6 / 554	Chr 5

Glioma Rank	p-value	#in/all	Geneset
1	2e-86	59 / 115	WILLSCHEER_GBM_Verhaak-CL_up (C)
2	8e-20	16 / 47	developing astrocytes
3	7e-13	13 / 66	Weller_LGG_gradel-vs-III_DOWN
4	2e-05	37 / 1523	Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
5	1e-04	6 / 68	cultured astrocytes vs. in vivo astrocytes
6	2e-04	31 / 1343	Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
7	2e-02	3 / 49	OPC
8	2e-02	1 / 2	Philips Prolif up vs PN & MES
9	6e-02	12 / 614	Sturm_GBM_Meth_overexpression_E_G34_UP
10	1e-01	1 / 15	Mukasa_UP_in_GBM
11	2e-01	1 / 16	VERHAAK_PN_subtype
12	2e-01	2 / 64	Weller_LGG_A_vs_O_DOWN
13	4e-01	1 / 45	OL vs. MOG-OL
14	5e-01	1 / 59	WILLSCHEER_GBM_Verhaak-PNwt & MES_up
15	5e-01	1 / 66	GIEZELT_GBM_MGMTmethyl_down_VS_nonmethyl

Immunome Rank	p-value	#in/all	Geneset
1	5e-21	14 / 26	Angelova Immune-metagenes-activated CD4
2	1e-03	3 / 19	Angelova Immune-metagenes-activated CD8
3	9e-03	2 / 12	Angelova Immune-metagenes-memory B-cells
4	1e-01	1 / 12	Angelova Immune-metagenes-effector_memory_CD4
5	4e-01	1 / 38	Angelova Immune-metagenes-mast-cells
6	1e+00	0 / 13	Angelova Immune-metagenes-activated_B-cells
7	1e+00	0 / 21	Angelova Immune-metagenes-central_memory_CD4
8	1e+00	0 / 17	Angelova Immune-metagenes-central_memory_CD8
9	1e+00	0 / 7	Angelova Immune-metagenes-cytotoxic_cells
10	1e+00	0 / 25	Angelova Immune-metagenes-DC
11	1e+00	0 / 32	Angelova Immune-metagenes-effector_memory_CD8
12	1e+00	0 / 14	Angelova Immune-metagenes-eposinophil
13	1e+00	0 / 19	Angelova Immune-metagenes-iDC
14	1e+00	0 / 13	Angelova Immune-metagenes-immature_B-cells
15	1e+00	0 / 11	Angelova Immune-metagenes-macrophages

Melanoma Rank	p-value	#in/all	Geneset
1	4e-98	85 / 319	Gerber_wt/wt_melanoma-cells-SpotA
2	8e-41	27 / 47	Tirosh_G2M_phase_specific_genes
3	3e-31	28 / 39	Tirosh_core_cycling_genes_low_and_high-proliferation melanoma
4	2e-29	21 / 44	Tirosh_top50_correlated_genes_PC2
5	4e-13	11 / 38	Tirosh_G1/S_phase_specific_genes
6	6e-13	13 / 65	Harbst_melanoma_highgrade_up
7	2e-04	5 / 46	Tirosh_top50_correlated_genes_PC5
8	1 / 68	1 / 68	Tirosh_noisekeeping_genes
9	6e-01	1 / 81	Tirosh_Genes_in_the_MITF_program
10	8e-01	2 / 236	Gerber_wt/wt_group3-specific
11	9e-01	1 / 204	Landsberg_dedifferentiation_down
12	9e-01	1 / 222	Gerber_wt/wt_melanoma-cells-SpotF
13	1e+00	1 / 270	Gerber_wt/wt_melanoma-cells-SpotB
14	1e+00	2 / 497	Gerber_wt/wt_melanoma-cells-SpotD
15	1e+00	0 / 17	Hugo_melanoma-all_MEL_UP

Pneumonia Rank	p-value	#in/all	Geneset
1	2e-04	8 / 135	Terre_MSIV_multiple_respiratory_viruses_up
2	1e-01	2 / 57	Burnham_day1_vs_5_UP
3	4e-01	2 / 122	Terre_ILMS_influenza_meta_signature
4	5e-01	1 / 54	Burnham_timecourse
5	5e-01	1 / 57	Burnham_viral_UP
6	6e-01	1 / 71	Burnham_cap_Tp_vs_con_UP
7	9e-01	1 / 179	Terre_MSIV_multiple_respiratory_viruses_dn
8	1e+00	0 / 68	Burnham_sep_vs_con_UP
9	1e+00	0 / 6	Burnham_sep_vs_con_DN
10	1e+00	0 / 48	Burnham_cap_Tp_vs_con_DN
11	1e+00	0 / 48	Burnham_viral_DN
12	1e+00	0 / 52	Burnham_day1_vs_5_DN
13	1e+00	0 / 18	Scicluna_up
14	1e+00	0 / 41	Scicluna_DN
15	1e+00	0 / 37	Sweeney_viral_up

TF Rank	p-value	#in/all	Geneset
1	8e-05	59 / 3150	ICGC_Creb1_targets
2	1e-04	64 / 3564	ICGC_Taf1_targets
3	2e-04	66 / 3796	ICGC_Nficc81335_targets
4	6e-04	64 / 3769	ICGC_Pmlc371910_targets
5	2e-03	61 / 3703	ICGC_Foxm1_targets
6	4e-03	28 / 1387	HEBENSTREIT_high_expression_TF
7	4e-03	59 / 3630	ICGC_Sp1_targets
8	5e-03	56 / 3451	ICGC_Atf2_targets
9	6e-03	60 / 3778	ICGC_Pol24_targets
10	6e-03	25 / 1241	KIM_MYC_targets
11	6e-03	57 / 3041	ICGC_Tcf2_targets
12	1e-02	33 / 1848	ICGC_Pbx3_targets
13	1e-02	59 / 3804	ICGC_Stat5_targets
14	1e-02	69 / 4602	ICGC_Elf1_targets
15	1e-02	65 / 4319	ICGC_Pou2_targets

Cancer Rank	p-value	#in/all	Geneset
1	2e-63	8 / 14	SOTTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
2	8e-45	58 / 409	Lembcke_Normal_vs_Adenoma
3	2e-17	7 / 15	RHODES_UNDIFFERENTIATED_CANCER
4	1e-04	5 / 41	PanCan_DNARepair_geneset_nanostring
5	6e-04	1 / 15	RHODES_CANCER_META_SIGNATURE
6	6e-04	5 / 58	SHAUGHNESSY_MM_high_risk
7	7e-04	3 / 15	BM-POPATH_UP
8	8e-04	3 / 16	WOLFFER_overlap_genes
9	5e-03	6 / 130	PanCan_CC+Apopt_geneset_nanostring
10	6e-03	2 / 10	GENTLES_modul3
11	6e-03	3 / 32	KUIPER_MM_good_survival
12	2 / 02	3 / 45	KUIPER_MM_poor_survival
13	2e-01	1 / 14	LIU_COMMON_CANCER_GENES
14	2e-01	1 / 14	LIU_PROSTATE_CANCER_DN
15	2e-01	1 / 15	WANG_ER_UP

Chromatin states Rank	p-value	#in/all	Geneset
1	3e-19	127 / 6099	HSC_4_Tx
2	3e-19	146 / 8200	monocytes_peripheral_blood_2_TssAFlnk
3	5e-17	187 / 8370	natural_killer_cells_peripheral_blood_2_TssAFlnk
4	2e-17	124 / 6068	4_Tx_ESC_Endoderm
5	5e-17	145 / 8406	Bcells_peripheral_blood_2_TssAFlnk
6	8e-17	137 / 7489	monocytes_peripheral_blood_5_TxWk
7	2e-16	143 / 8245	Regulatory_cells_peripheral_blood_2_TssAFlnk
8	4e-16	140 / 7939	Regulatory_cells_peripheral_blood_1_TssA
9	4e-16	147 / 8816	Thelper_cells_peripheral_blood_2_TssAFlnk
10	3e-15	143 / 8431	T_CD8+_naive_cells_peripheral_blood_2_TssAFlnk
11	3e-15	139 / 7957	Tcells_peripheral_blood_2_TssAFlnk
12	3e-15	136 / 7635	monocytes_peripheral_blood_1_TssA
13	1e-15	140 / 8143	HSC_5_TxWk
14	1e-14	146 / 8918	TssA_ESC_Mesoderm
15	2e-14	141 / 8322	T_CD8+_naive_cells_peripheral_blood_1_TssA

GSEA C2 Rank	p-value	#in/all	Geneset
1	4e-85	72 / 244	KOBAYASHI_EGFR_SIGNALING_24HR_DN
2	2e-82	60 / 137	ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
3	1e-74	78 / 431	GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
4	1e-74	100 / 966	KREYB_TARGETS_OF_EVSR1_FLII_FUSION_UP
5	6e-6		

Overexpression Spots

Spot Summary: J

metagenes = 9
genes = 169

<r> metagenes = 0.96
<r> genes = 0.27
beta: r2= 3.95 / log p= -Inf

samples with spot = 14 (6.3 %)
mBL : 11 (25 %)
intermediate : 3 (6.2 %)

Spot Genelist

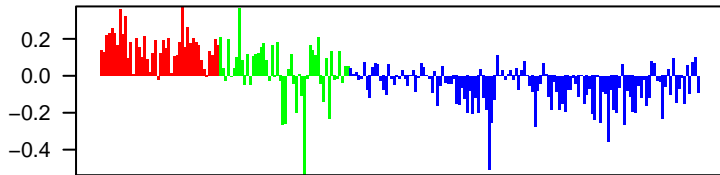
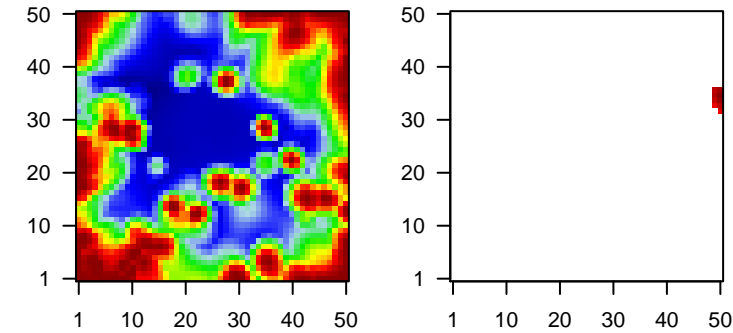
Rank	ID	max e	r	min e	Description
1	206233_at	1.81	-0.95	0.2	B4GALT6beta-1,4-galactosyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:21637]
2	213435_at	1.73	-1.11	0.33	SATB2 SATB homeobox 2 [Source:HGNC Symbol;Acc:HGNC:21637]
3	213489_at	1.67	-1.75	0.36	MAPRE2microtubule associated protein RP/EB family member 2 [Source:HGNC Symbol;Acc:HGNC:21637]
4	221045_s_at	1.42	-0.9	0.15	PER3 period circadian regulator 3 [Source:HGNC Symbol;Acc:HGNC:21637]
5	202661_at	1.39	-1.1	0.3	PER3 period circadian regulator 3 [Source:HGNC Symbol;Acc:HGNC:21637]
6	214790_at	1.35	-0.72	0.43	SENP6 SUMO1/sentrin specific peptidase 6 [Source:HGNC Symbol;Acc:HGNC:21637]
7	204547_at	1.34	-1.13	0.4	RAB40B RAB40B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:21637]
8	208920_at	1.2	-0.9	0.37	SRI sorcin [Source:HGNC Symbol;Acc:HGNC:11292]
9	219312_s_at	1.18	-1.16	0.38	ZBTB10 zinc finger and BTB domain containing 10 [Source:HGNC Symbol;Acc:HGNC:11292]
10	210379_s_at	1.17	-1.36	0.24	TLK1 tousel like kinase 1 [Source:HGNC Symbol;Acc:HGNC:1184]
11	213549_at	1.09	-0.9	0.54	PDZD8 PDZ domain containing 8 [Source:HGNC Symbol;Acc:HGNC:1184]
12	203298_s_at	1.07	-1.25	0.27	JARID2 jumonji and AT-rich interaction domain containing 2 [Source:HGNC Symbol;Acc:HGNC:1184]
13	221575_at	1.06	-0.97	0.34	SCLY selenocysteine lyase [Source:HGNC Symbol;Acc:HGNC:1811]
14	219676_at	1.05	-0.88	0.37	ZSCAN1zinc finger and SCAN domain containing 16 [Source:HGNC Symbol;Acc:HGNC:1811]
15	208762_at	1.05	-0.78	0.65	SUMO1 small ubiquitin-like modifier 1 [Source:HGNC Symbol;Acc:HGNC:1811]
16	208741_at	1.04	-1.09	0.54	SAP18 Sin3A associated protein 18 [Source:HGNC Symbol;Acc:HGNC:1811]
17	219342_at	1.03	-1.01	0.46	CASD1 CAS1 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:1811]
18	213416_at	1.01	-1.54	0.48	CASD1 CAS1 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:1811]
19	216713_at	0.99	-1.62	0.5	KRIT1 KRIT1, ankyrin repeat containing [Source:HGNC Symbol;Acc:HGNC:1811]
20	218247_s_at	0.98	-1.28	0.58	MEX3C mex-3 RNA binding family member C [Source:HGNC Symbol;Acc:HGNC:1811]

Geneset Overrepresentation

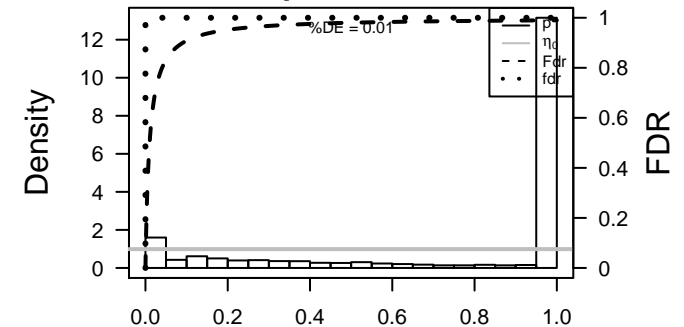
Rank	p-value	#in/all	Geneset
1	4e-31	40 / 310	Refer Chaussabel_3,4_Protein phosphatases
2	1e-24	125 / 5529	LympI HOPP_Txn_elongation
3	2e-19	122 / 5908	LympI HOPP_Active_promoter
4	2e-17	43 / 830	GSE# DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
5	4e-15	29 / 417	GSE# SHEN_SMARCA2_TARGETS_UP
6	4e-15	96 / 4261	LympI HOPP_Txn_transition
7	1e-14	30 / 469	GSE# DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
8	2e-13	110 / 5682	LympI HOPP_Weak_promoter
9	3e-10	43 / 1343	Gliom Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
10	3e-10	24 / 448	miRN hsa-miR-20b
11	4e-10	46 / 1523	Gliom Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
12	5e-10	20 / 314	miRN hsa-miR-372
13	4e-09	22 / 427	miRN hsa-miR-17
14	4e-09	16 / 216	miRN hsa-miR-548l
15	4e-09	85 / 4357	Lymp HOPP_Weak_txn
16	5e-09	23 / 474	miRN hsa-miR-20a
17	7e-09	16 / 226	miRN hsa-miR-302b
18	9e-09	87 / 4579	CC nucleus
19	2e-08	18 / 309	GSE# DAZARD_RESPONSE_TO_UV_NHEK_DN
20	2e-08	12 / 124	miRN hsa-miR-450b-5p
21	2e-08	43 / 1550	GSE# PILON_KLF1_TARGETS_DN
22	2e-08	16 / 245	miRN hsa-miR-302d
23	3e-08	16 / 248	miRN hsa-miR-520c-3p
24	4e-08	23 / 528	GSE# FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP
25	6e-08	27 / 730	GSE# ONKEN_UVEAL_MELANOMA_UP
26	1e-07	17 / 315	miRN hsa-miR-144
27	1e-07	15 / 245	Refer Chaussabel_3,9_Kinases
28	2e-07	14 / 212	miRN hsa-miR-520b
29	2e-07	12 / 150	miRN hsa-miR-300
30	2e-07	19 / 403	miRN hsa-miR-106b
31	2e-07	19 / 404	miRN hsa-miR-103
32	2e-07	18 / 364	miRN hsa-miR-548n
33	2e-07	19 / 405	miRN hsa-miR-107
34	2e-07	11 / 126	miRN hsa-miR-548o
35	2e-07	19 / 407	miRN hsa-miR-106a
36	2e-07	17 / 328	GSE# OSMAN_BLADDER_CANCER_UP
37	3e-07	83 / 4559	Lymp HOPP_Weak_enhancer
38	3e-07	17 / 336	miRN hsa-miR-519d
39	3e-07	16 / 298	GSE# DEBIASI_APOPTOSIS_BY_REOVIRUS_INFECTION_UP
40	3e-07	15 / 261	miRN hsa-miR-559

Overview Map

Spot



p-values



Aging Rank	p-value	#in/all	Geneset
1	1	0 / 92	HORVATH_aging_genes_meth_DOWN
2	1	0 / 107	HORVATH_aging_genes_meth_UP
3	1	0 / 47	TSCHEENDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

CC Rank	p-value	#in/all	Geneset
1	9e-09	87 / 4579	nucleus
2	9e-06	8 / 86	PML body
3	3e-04	4 / 29	histone deacetylase complex
4	4e-04	12 / 326	nuclear speck
5	7e-04	46 / 2541	nucleoplasm
6	7e-03	3 / 35	nuclear inner membrane
7	9e-03	6 / 149	nuclear envelope
8	9e-03	4 / 70	nuclear pore
9	9e-03	2 / 13	ESC(E/Z) complex
10	1e-02	4 / 73	ubiquitin ligase complex
11	1e-02	3 / 39	cell leading edge
12	1e-02	3 / 42	transcriptional repressor complex
13	1e-02	2 / 15	phagophore assembly site membrane
14	2e-02	2 / 19	nuclear periphery
15	3e-02	7 / 251	microtubule

Colon Cancer Rank	p-value	#in/all	Geneset
1	3e-06	41 / 1729	LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_t
2	9e-06	31 / 1174	LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse_colo
3	1e-04	23 / 848	LaPointe_mucosa-position_kmeans_O_transverse_colon_UP
4	1e-04	31 / 1354	LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP_a
5	2e-03	43 / 49	LaPointe_mucosa-position_kmeans_K_transverse_colon_UP
6	3e-03	20 / 883	LaPointe_mucosa-position_kmeans_L_transverse_colon_cecum_colon_DN
7	7e-03	20 / 958	LaPointe_mucosa-position_kmeans_D_transverse_colon_UP
8	8e-03	13 / 532	LaPointe_mucosa-position_kmeans_B_ascending_colon_transverse_colo
9	9e-03	18 / 854	LaPointe_mucosa-position_kmeans_A_ascending_colon_UP
10	1e-02	22 / 1166	LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_cecum_colon_a
11	2e-02	13 / 602	Pentrack_CRC_TCGA_corr_R_normal_DN
12	4e-02	18 / 1001	Pentrack_CRC_TCGA_corr_kmeans_H_cecum_colon_ascending_colon_up
13	7e-02	3 / 83	Marisa_CRC_cluster-d
14	1e-01	10 / 561	Pentrack_CRC_TCGA_group_over_C_normal_DN
15	1e-01	9 / 492	LaPointe_mucosa-position_kmeans_C_cecum_colon_ascending_colon_trans

LM Rank	p-value	#in/all	Geneset
1	0.02	4 / 96	HALLMARK_ANDROGEN_RESPONSE
2	0.07	5 / 190	HALLMARK_MYC_TARGETS_V1
3	0.07	5 / 195	HALLMARK_G2M_CHECKPOINT
4	0.17	3 / 122	HALLMARK_SPERMATOGENESIS
5	0.18	4 / 192	HALLMARK_MTORC1_SIGNALING
6	0.19	4 / 194	HALLMARK_KRAS_SIGNALING_UP
7	0.32	3 / 173	HALLMARK_MITOTIC_SPINDLE
8	0.35	2 / 106	HALLMARK_UNFOLDED_PROTEIN_RESPONSE
9	0.37	3 / 187	HALLMARK_E2F_TARGETS
10	0.37	3 / 187	HALLMARK_INFAMMATORY_RESPONSE
11	0.48	2 / 141	HALLMARK_ILV_RESPONSE_DN
12	0.62	2 / 182	HALLMARK_GLYCOLYSIS
13	0.64	2 / 188	HALLMARK_HYPOXIA
14	0.65	2 / 190	HALLMARK_TNFA_SIGNALING_VIA_NFKB
15	0.66	1 / 94	HALLMARK_PROTEIN_SECRETION

Lymphoma Rank	p-value	#in/all	Geneset
1	1e-24	125 / 5529	HOPP_Txn_elongation
2	2e-13	122 / 5908	HOPP_Active_promoter
3	4e-13	96 / 4261	HOPP_Txn_transition
4	2e-13	110 / 5682	HOPP_Weak_promoter
5	4e-09	85 / 4357	HOPP_Weak_txn
6	3e-07	83 / 4559	HOPP_Weak_enhancer
7	2e-04	84 / 5404	HOPP_Strong_enhancer
8	3e-06	23 / 906	SPANG_BCR_DN
9	3e-03	21 / 955	SPANG_BCR_UP
10	5e-03	8 / 227	SPANG_IL21_UP
11	1e-02	31 / 1814	HOPP_Repetitive
12	3e-02	3 / 57	SPANG_LPS_6hrs_DN
13	1e-01	5 / 213	SPANG_IL21_DN
14	1e-01	3 / 102	ROSOLOWSKI_blue_total
15	1e-01	7 / 353	SPANG_CD40_6hrs_DN

miRNA target Rank	p-value	#in/all	Geneset
1	3e-10	24 / 448	hsa-miR-20b
2	5e-10	20 / 314	hsa-miR-372
3	4e-09	22 / 427	hsa-miR-17
4	4e-09	16 / 216	hsa-miR-548f
5	5e-09	23 / 474	hsa-miR-20a
6	7e-09	16 / 226	hsa-miR-302b
7	2e-08	12 / 124	hsa-miR-450b-5p
8	2e-08	16 / 245	hsa-miR-302d
9	3e-09	23 / 406	hsa-miR-520c-3p
10	1e-07	17 / 315	hsa-miR-144
11	2e-07	14 / 212	hsa-miR-520b
12	2e-07	12 / 150	hsa-miR-300
13	2e-07	19 / 403	hsa-miR-106b
14	2e-07	19 / 404	hsa-miR-103
15	2e-07	18 / 364	hsa-miR-548n

Telomeres Rank	p-value	#in/all	Geneset
1	0.009	2 / 13	Alternative lengthening of telomeres
2	0.269	1 / 27	Nabeta1n_alt len telomeres_genes_ko
3	NA	0 / 0	
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

BP Rank	p-value	#in/all	Geneset
1	1e-05	13 / 280	chromatin organization
2	1e-05	40 / 1764	regulation of transcription, DNA-templated
3	2e-05	38 / 1655	transcription, DNA-templated
4	1e-04	6 / 68	protein sumoylation
5	2e-04	4 / 27	intrinsic apoptotic signaling pathway in response to DNA damage by p53 clas
6	1e-03	3 / 18	regulation of cell morphogenesis
7	1e-03	14 / 497	cell cycle
8	6e-03	3 / 33	autophagosome assembly
9	8e-03	2 / 12	regulation of cardiac muscle cell contraction
10	9e-03	2 / 13	muscle cell differentiation
11	9e-03	2 / 13	regulation of interferon-gamma-mediated signaling pathway
12	1e-02	3 / 39	regulation of cell adhesion
13	1e-02	2 / 14	regulation of establishment of cell polarity
14	1e-02	3 / 42	histone deacetylation
15	1e-02	2 / 15	microtubule nucleation

Chr Rank	p-value	#in/all	Geneset
1	0.007	8 / 242	Chr 13
2	0.030	16 / 832	Chr 2
3	0.045	13 / 689	Chr 6
4	0.060	13 / 700	Chr 12
5	0.075	11 / 585	Chr 7
6	0.107	10 / 554	Chr 5
7	0.163	4 / 184	Chr 18
8	0.171	11 / 689	Chr 3
9	0.189	8 / 480	Chr 4
10	0.204	8 / 490	Chr 10
11	0.569	5 / 437	Chr 8
12	0.674	5 / 492	Chr 9
13	0.802	3 / 136	Chr 21
14	0.802	3 / 369	Chr 20
15	0.847	3 / 403	Chr 14

Glioma Rank	p-value	#in/all	Geneset
1	3e-10	43 / 1343	Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
2	4e-10	46 / 1523	Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
3	3e-05	14 / 330	Up
4	6e-04	5 / 59	WILLSCHER_GBM_Verhaak-PNwt & MES_up
5	3e-03	4 / 52	GIEZELT_GBM_WT_down_VS_mut
6	1e-02	14 / 614	Sturm_GBM_Meth_overexpression_E_G34_UP
7	4e-02	7 / 282	WILLSCHER_GBM_Verhaak-PNwt & CL_up
8	7e-02	1 / 6	Donson-adaptive-immunity-associated with LTS in HGA
9	2e-01	1 / 15	neurons_glio
10	1e-01	2 / 64	Weller_Gli3_A_vs_Q_DOWN
11	2e-01	2 / 66	GIEZELT_GBM_MGMTmethyl_down_VS_nonmethyl
12	2e-01	1 / 21	Barbus_GBM_STS_vs_LTS
13	2e-01	1 / 21	WILLSCHER_GBM_Verhaak-PNmut_down(G)
14	2e-01	1 / 22	Sturm_GBM_Meth_overexpression_H_K27_UP
15	3e-01	1 / 32	WIRTH_PN_subtype

Immunome Rank	p-value	#in/all	Geneset
1	0.45	1 / 45	Angelova Immune-metagenome-MDSC
2	0.5	1 / 67	Angelova Immune-metagenome-T-cells
3	1.0	0 / 13	Angelova Immune-metagenome-activated_B-cells
4	1.0	0 / 26	Angelova Immune-metagenome-activated_CD8
5	1.0	0 / 19	Angelova Immune-metagenome-activated_CD8
6	1.0	0 / 21	Angelova Immune-metagenome-central_memory_CD4
7	1.0	0 / 17	Angelova Immune-metagenome-central_memory_CD8
8	1.0	0 / 7	Angelova Immune-metagenome-cytotoxic_cells
9	1.0	0 / 25	Angelova Immune-metagenome-DC
10	1.0	0 / 12	Angelova Immune-metagenome-effector_memory_CD4
11	1.0	0 / 32	Angelova Immune-metagenome-effector_memory_CD8
12	1.0	0 / 14	Angelova Immune-metagenome-eosinophil
13	1.0	0 / 19	Angelova Immune-metagenome-iDC
14	1.0	0 / 13	Angelova Immune-metagenome-immature_B-cells
15	1.0	0 / 11	Angelova Immune-metagenome-macrophages

Melanoma Rank	p-value	#in/all	Geneset
1	0.2	6 / 319	Gerber_wt/wt_melanoma-cells-SpotA
2	0.2	1 / 23	Melanoma_Epi-Enzyme_Cluster 7
3	0.3	4 / 20	Gerber_wt/wt_melanoma-cells-SpotC
4	0.4	1 / 38	Tirosh_G1/S1 phase specific genes
5	0.4	3 / 185	Tirosh_genes from malignant cells in Mel179-melanoma
6	0.4	1 / 39	Tirosh_melanoma specific genes
7	0.4	1 / 46	Tirosh_top50 correlated genes PCs
8	0.4	1 / 47	Tirosh_G2/M phase specific genes
9	0.5	3 / 222	Gerber_wt/wt_melanoma-cells-SpotF
10	0.5	1 / 65	Harbst_melanoma_highgrade_up
11	0.5	3 / 249	Gerber_wt/wt_melanoma-cells-SpotE
12	0.6	1 / 81	Tirosh_Genes in the MITF program
13	0.8	4 / 497	Gerber_wt/wt_melanoma-cells-SpotD
14	0.9	1 / 204	Landsberg_dedifferentiation_down1
15	0.9	1 / 236	Gerber_wt/wt_group3-specific

Pneumonia Rank	p-value	#in/all	Geneset
1	0.02	6 / 179	Terre_MSIV_multiple_respiratory_viruses_dn
2	0.38	1 / 41	Sciouna_DN
3	0.47	1 / 54	Burnham_timecourse
4	0.48	1 / 57	Burnham_viral_UP
5	1.00	0 / 66	Burnham_sep_vs_con_UP
6	1.00	0 / 56	Burnham_sep_vs_con_DN
7	1.00	0 / 48	Burnham_cap_fp_vs_con_DN
8	1.00	0 / 71	Burnham_cap_fp_vs_con_UP
9	1.00	0 / 48	Burnham_viral_DN
10	1.00	0 / 57	Burnham_day1_vs_5_UP
11	1.00	0 / 52	Burnham_day1_vs_5_DN
12	1.00	0 / 18	Sciouna_UP
13	1.00	0 / 37	Sweeney_viral_up
14	1.00	0 / 33	Sweeney_viral_dn
15	1.00	0 / 122	Terre_IMS_influenza_meta_signature

TE Rank	p-value	#in/all	Geneset
1	0.01	57 / 3778	ICGC_Pol24_targets
2	0.01	54 / 3564	ICGC_Taf1_targets
3	0.02	56 / 3769	ICGC_Pmlsc71910_targets
4	0.02	20 / 1044	ICGC_Six5_targets
5	0.02	56 / 3796	ICGC_Nfics81335_targets
6	0.02	28 / 1630	ICGC_Srfv0416101_targets
7	0.02	1 / 2	MYC_Chromatin_modification_UP
8	0.02	53 / 3608	ICGC_Tcf12_targets
9	0.03	44 / 2899	ICGC_Nf1c1_targets
10	0.03	24 / 1387	HEBENS_TREIT_high_expression_TF
11	0.03	47 / 3150	ICGC_Creb1_targets
12	0.03	25 / 1494	ICGC_Cebpbpc150_targets
13	0.04	50 / 3451	ICGC_Atf2_targets
14	0.04	11 / 522	ICGC_SrfPcr2_targets
15	0.04	54 / 3804	ICGC_Staf5_targets

Cancer Rank	p-value	#in/all	Geneset
1	0.001	1 / 12	LIU_BREAST_CANCER
2	0.008	2 / 12	BENTINK_ras.1
3	0.011	2 / 14	BENTINK_src.2
4	0.041	2 / 28	PanCan_HK_geneset_nanostring
5	0.064	2 / 36	ZHANG_MM_up
6	0.130	1 / 12	GENTLES_modul10
7	0.130	1 / 12	BENTINK_src.2
8	0.150	1 / 14	GENTLES_modul12
9	0.150	1 / 14	BENTINK_myc.1
10	0.252	1 / 25	PanCan_HH_geneset_nanostring
11	0.375	2 / 113	PanCan_Driver_Gene_geneset_nanostring
12	0.407	1 / 45	KUPER_MM_poor_survival
13	0.420	0 / 14	LIU_COMMON_CANCER_GENES
14	0.567	1 / 72	PanCan_Wnt_geneset_nanostring
15	0.672	1 / 96	PanCan_TXmisReg_geneset_nanostring

Chromatin states Rank	p-value	#in/all	Geneset
1	1e-27	134 / 6099	HSC_4_Tx
2	3e-27	128 / 5527	Regulatory cells peripheral blood_4_Tx
3	2e-26	116 / 5452	T CD8+ naive cells peripheral blood_4_Tx
4	1e-25	128 / 5716	Bcells peripheral blood_4_Tx
5	2e-24	127 / 5753	Tcells peripheral blood_4_Tx
6	5e-23	125 / 5738	monocytes peripheral blood_4_Tx
7	5e-22	124 / 5766	natural killer cells peripheral blood_4_Tx
8	6e-22	118 / 7420	Tcells peripheral blood_1_TssA
9	9e-22	122 / 5501	Thelper cells peripheral blood_4_Tx
10	2e-21	141 / 7751	natural killer cells peripheral blood_1_TssA
11	2e-21	140 / 7635	monocytes peripheral blood_1_TssA
12	1e-19	124 / 6068	4_Tx_ESC_Endoderm
13	4e-19	139 / 7633	Bcells peripheral blood_1_TssA
14	7e-19	126 / 6389	B_Tx_ESC_Mesoderm
15	1e-18	130 / 6839	T CD8+ naive cells peripheral blood_5_TxWk

GSEA C2 Rank	p-value	#in/all	Geneset
1	2e-17	43 / 830	DACOSTA_UP_RESPONSE_VIA_ERCC3_DN
2	4e-15	29 / 417	SHEN_SMARCA2_TARGETS_UP
3	1e-14	30 / 469	DACOSTA_UP_RESPONSE_VIA_ERCC3_COMMON_DN
4	2e-08	18 / 309	DACOSTA_RESPONSE_TO_UV_NHEK_DN
5	2e-08		

Overexpression Spots

Spot Summary: K

metagenes = 4
genes = 157

<r> metagenes = 1
<r> genes = 0.29
beta: r2= 2.33 / log p= -Inf

samples with spot = 3 (1.4 %)
mBL : 2 (4.5 %)
non-mBL : 1 (0.8 %)

Spot Genelist

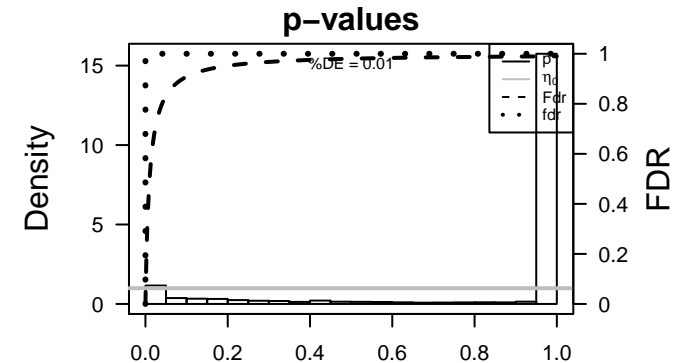
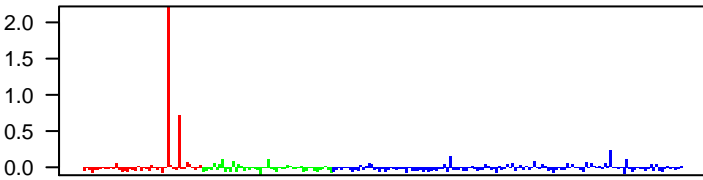
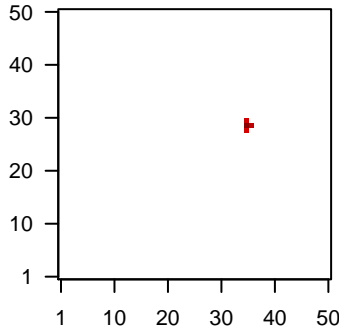
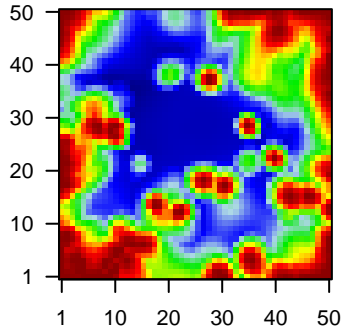
Rank	ID	max e	r	min e	Description
1	219465_at	3.55	-0.52	0.79	APOA2 apolipoprotein A2 [Source:HGNC Symbol;Acc:HGNC:601]
2	208470_s_at	3.52	-0.84	0.63	HPR haptoglobin-related protein [Source:HGNC Symbol;Acc:HGN
3	219466_s_at	3.5	-0.5	0.82	APOA2 apolipoprotein A2 [Source:HGNC Symbol;Acc:HGNC:601]
4	211298_s_at	3.41	-0.62	0.78	ALB albumin [Source:HGNC Symbol;Acc:HGNC:399]
5	203400_s_at	3.34	-0.63	0.74	TF transferrin [Source:HGNC Symbol;Acc:HGNC:11740]
6	217238_s_at	3.3	-0.55	0.71	ALDOB aldolase, fructose-bisphosphate B [Source:HGNC Symbol;Ac
7	205820_s_at	3.27	-0.63	0.7	APOC3 apolipoprotein C3 [Source:HGNC Symbol;Acc:HGNC:610]
8	206697_s_at	3.26	-0.73	0.57	HP haptoglobin [Source:HGNC Symbol;Acc:HGNC:5141]
9	204988_at	3.25	-0.63	0.7	FGB fibrinogen beta chain [Source:HGNC Symbol;Acc:HGNC:366
10	205892_s_at	3.21	-0.45	0.68	FABP1 fatty acid binding protein 1 [Source:HGNC Symbol;Acc:HGNC
11	204965_at	3.18	-0.53	0.76	GC GC, vitamin D binding protein [Source:HGNC Symbol;Acc:HC
12	209937_at	3.14	-0.36	0.78	TM4SF4 transmembrane 4 L six family member 4 [Source:HGNC Sym
13	208383_s_at	3.1	-0.64	0.61	PCK1 phosphoenolpyruvate carboxykinase 1 [Source:HGNC Symb
14	219140_s_at	3.1	-0.66	0.69	RBP4 retinol binding protein 4 [Source:HGNC Symbol;Acc:HGNC:9
15	206226_at	3.08	-0.56	0.7	HRG histidine rich glycoprotein [Source:HGNC Symbol;Acc:HGNC
16	210929_s_at	3.08	-0.82	0.67	AHSG alpha 2-HS glycoprotein [Source:HGNC Symbol;Acc:HGNC::
17	214063_s_at	3.07	-0.61	0.74	TF transferrin [Source:HGNC Symbol;Acc:HGNC:11740]
18	205650_s_at	3.06	-0.63	0.69	FGA fibrinogen alpha chain [Source:HGNC Symbol;Acc:HGNC:36
19	219612_s_at	3.01	-0.47	0.74	FGG fibrinogen gamma chain [Source:HGNC Symbol;Acc:HGNC::
20	216238_s_at	2.97	-0.52	0.74	FGB fibrinogen beta chain [Source:HGNC Symbol;Acc:HGNC:366

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	79 / 218	GSE# HSHAO_LIVER_SPECIFIC_GENES
2	6e-78	48 / 94	Refer WIRTH_Liver
3	2e-39	37 / 208	GSE# CAIRO_LIVER_DEVELOPMENT_DN
4	4e-37	30 / 116	CC blood microparticle
5	9e-34	35 / 243	GSE# HOSHIDA_LIVER_CANCER_SUBCLASS_S3
6	2e-33	35 / 250	GSE# CAIRO_HEPATOBLASTOMA_DN
7	4e-32	29 / 147	GSE# CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_DN
8	8e-31	65 / 1611	CC extracellular region
9	5e-29	38 / 421	GSE# ACEVEDO_LIVER_CANCER_DN
10	2e-28	21 / 64	GSE# KEGG_COMPLEMENT_AND_COAGULATION_CASCADES
11	6e-27	52 / 1090	CC extracellular space
12	6e-27	19 / 52	GSE# SU_LIVER
13	8e-26	35 / 410	GSE# PILON_KLF1_TARGETS_UP
14	3e-24	67 / 2239	CC extracellular exosome
15	8e-22	22 / 144	GSE# LEE_LIVER_CANCER_SURVIVAL_UP
16	2e-21	21 / 130	HM HALLMARK_COAGULATION
17	2e-20	18 / 88	BP negative regulation of endopeptidase activity
18	2e-19	16 / 67	GSE# YAMASHITA_LIVER_CANCER_STEM_CELL_DN
19	6e-19	19 / 124	GSE# SERVITJA_LIVER_HNF1A_TARGETS_DN
20	1e-18	52 / 1652	Gliom Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
21	5e-18	14 / 51	BP hemostasis
22	5e-18	26 / 337	GSE# BOCHKIS_FOXA2_TARGETS
23	8e-18	17 / 100	GSE# OHGUCHI_LIVER_HNF4A_TARGETS_DN
24	2e-17	12 / 32	BP acute-phase response
25	2e-17	28 / 429	Refer PROTEINATLAS_liver
26	1e-15	19 / 185	BP cellular protein metabolic process
27	2e-15	19 / 189	GSE# NABA_ECM_REGULATORS
28	3e-15	13 / 61	MF serine-type endopeptidase inhibitor activity
29	4e-15	11 / 35	GSE# LEE_LIVER_CANCER
30	4e-15	14 / 79	CC organelle membrane
31	1e-14	12 / 51	GSE# KEGG_DRUG_METABOLISM_CYTOCHROME_P450
32	2e-14	15 / 110	BP platelet degranulation
33	5e-14	9 / 21	BP fibrinolysis
34	8e-14	13 / 77	GSE# WOO_LIVER_CANCER_RECURRENCE_DN
35	8e-14	23 / 376	Color Lembcke_TCGA-expr_kmeans_M_CIMP_H_DN
36	2e-13	14 / 103	GSE# REACTOME_BIOLOGICAL_OXIDATIONS
37	2e-13	17 / 181	HM HALLMARK_XENOBIOTIC_METABOLISM
38	3e-13	9 / 25	GSE# REACTOME_COMPLEMENT_CASCADE
39	5e-13	36 / 1092	GSE# YOSHIMURA_MAPK8_TARGETS_UP
40	1e-12	10 / 41	GSE# KEGG_RETINOL_METABOLISM

Overview Map

Spot



Rank	p-value	#in/all	Geneset
1	0.5	1/92	HORVATH_aging_genes_meth_DOWN
2	0.3	1/107	HORVATH_aging_genes_meth_UP
3	1.0	0/47	TESCHENDORFF_age_hypermethylated
4	NA	0/0	
5	NA	0/0	
6	NA	0/0	
7	NA	0/0	
8	NA	0/0	
9	NA	0/0	
10	NA	0/0	
11	NA	0/0	
12	NA	0/0	
13	NA	0/0	
14	NA	0/0	
15	NA	0/0	

BP Rank	p-value	#in/all	Geneset
1	2e-20	18/88	negative regulation of endopeptidase activity
2	1e-18	14/51	hemostasis
3	2e-17	12/32	acute-phase response
4	1e-15	19/185	cellular protein metabolic process
5	2e-14	15/110	platelet degranulation
6	5e-14	9/21	fibrinolysis
7	1e-13	12/98	steroid metabolic process
8	5e-11	11/78	negative regulation of peptidase activity
9	2e-10	14/172	blood coagulation
10	6e-10	9/53	regulation of complement activation
11	4e-09	9/66	xenobiotic metabolic process
12	1e-08	15/271	post-translational protein modification
13	1e-08	8/52	complement activation, classical pathway
14	5e-08	5/13	low-density lipoprotein particle remodeling
15	5e-08	5/13	regulation of blood coagulation

Cancer Rank	p-value	#in/all	Geneset
1	3e-04	3/16	LIU_LIVER_CANCER
2	2e-02	3/480	Lembcke_ColonInflammation
3	1e-01	1/13	GENTLES_modul17
4	1e-01	1/14	GENTLES_modul13
5	1e-01	1/16	GENTLES_modul6
6	5e-01	0/11	LIU_PROSTATE_CANCER_UP
7	5e-01	1/80	PanCan_JAK-ST1_geneset_nostrng
8	8e-01	1/187	PanCan_P13K_geneset_nostrng
9	8e-01	0/14	LIU_PROSTATE_CANCER_DN
10	9e-01	2/409	Lembcke_Normal_vs_Adenoma
11	1e+00	0/15	RHODES_CANCER_META_SIGNATURE
12	1e+00	0/15	RHODES_UNDIFFERENTIATED_CANCER
13	1e+00	0/16	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN
14	1e+00	0/14	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
15	1e+00	0/12	LIU_BREAST_CANCER

CC Rank	p-value	#in/all	Geneset
1	4e-37	30/116	blood microparticle
2	8e-31	65/1611	extracellular region
3	6e-27	10/190	extracellular space
4	3e-24	67/2239	extracellular exosome
5	4e-15	14/79	organelle membrane
6	2e-12	18/241	endoplasmic reticulum lumen
7	1e-10	10/63	platelet alpha granule lumen
8	9e-09	6/19	high-density lipoprotein particle
9	3e-08	5/12	chylomicron
10	4e-08	21/604	intracellular membrane-bounded organelle
11	2e-07	5/16	very-low-density lipoprotein particle
12	3e-06	4/13	endocytic vesicle lumen
13	5e-05	7/683	endoplasmic reticulum membrane
14	4e-05	14/462	cell surface
15	8e-05	9/212	extracellular matrix

Chr Rank	p-value	#in/all	Geneset
1	0.003	11/480	Chr 4
2	0.058	17/1325	Chr 1
3	0.071	10/689	Chr 3
4	0.127	7/490	Chr 10
5	0.235	7/585	Chr 7
6	0.420	8/832	Chr 2
7	0.517	5/554	Chr 5
8	0.558	6/100	Chr 12
9	0.612	4/492	Chr 9
10	0.634	6/756	Chr 11
11	0.675	3/403	Chr 14
12	0.696	4/548	Chr 16
13	0.787	1/184	Chr 18
14	0.829	1/369	Chr 20
15	0.831	4/669	Chr 6

Chromatin states Rank	p-value	#in/all	Geneset
1	2e-05	39/2374	9_ReprPCWk_Fibroblasts
2	2e-05	39/2375	10_ReprPC_Fibroblasts
3	4e-03	5/3734	4cells_peripheral_blood_13_ReprPC
4	3e-04	51/3918	Tcells_peripheral_blood_14_ReprPCWk
5	4e-04	36/2417	9_ReprPCWk_Melanocytes
6	1e-03	39/2867	9_ReprPCWk_MSC_Adipocyte
7	1e-03	34/2408	9_ReprPCWk_Skeletal_Muscle
8	2e-03	19/1072	Mid_Frontal_Lobe_ReprPCWk
9	2e-03	32/2254	10_ReprPC_MSC_Adipocyte
10	3e-03	36/2700	Thelper_cells_peripheral_blood_14_ReprPCWk
11	3e-03	16/867	Mid_Frontal_Lobe_Quies
12	4e-03	11/502	Mid_Frontal_Lobe_EnhG
13	4e-03	12/586	Mid_Frontal_Lobe_Enh
14	6e-03	48/4079	5_QuiesESC_Endoderm
15	3e-02	25/1984	10_ReprPC_Melanocytes

Colon Cancer Rank	p-value	#in/all	Geneset
1	8e-14	23/376	Lembcke_TCGA-expr_kmeans_M_CIMP_H_DN
2	8e-09	19/452	Lembcke_TCGA-expr_kmeans_L_CIMP_H_UP_Cluster4_DN
3	6e-06	15/448	Lembcke_TCGA_meth_kmeans_J_CIMP_H_DN
4	2e-04	74/6368	LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
5	2e-02	6/25	Kosinski_top_cytpl_long_list
6	3e-02	3/82	Pentrack_CRC_TCGA_group_over_A_normal_UP
7	4e-02	6/290	Lembcke_TCGA_meth_kmeans_O_CIMP_H_DN
8	4e-02	2/38	Marisa_CRC-cluster-e
9	8e-02	8/532	LaPointe_mucosa-position_kmeans_B_ascending_colon_transverse_colon_UP
10	1e-01	7/492	HALLMARK_KRAS_SIGNALING_UP
11	1e-01	2/77	Ang_CRC_Hypermethylated
12	2e-01	3/172	Pentrack_CRC_TCGA_corr_U_msi-h_UP
13	2e-01	1/24	Pentrack_CRC_TCGA_corr_S_normal_DN
14	2e-01	10/854	LaPointe_mucosa-position_kmeans_A_ascending_colon_UP
15	2e-01	10/883	LaPointe_mucosa-position_kmeans_L_transverse_colon_cecum_colon_DN

Glioma Rank	p-value	#in/all	Geneset
1	1e-18	52/1652	Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
2	3e-10	20/414	Hopp_Sturm_GBM_Epi3_A_adult_fetus_UP_G34_DN
3	3e-08	4/5	WILLSCHEER_GBM_LTSwt_proteomics-M_UP
4	9e-05	6/86	Sturm_GBM_Meth_overexpression_B_adult_UP
5	4e-04	4/31	WILLSCHEER_GBM_proteomics_wtOnly_SpotC
6	3e-04	13/496	Hopp_Sturm_GBM_Epi3_no_zentr_1_G34_DN
7	5e-03	2/12	Sturm_GBM_Meth_overexpression_J_RTKII_classic_UP
8	9e-03	7/273	Hopp_Sturm_GBM_Epi3_B_adult_UP_G34_DN
9	1e-02	3/58	GIZELT_GBM_STSwt_down_VS_LTSwt
10	2e-02	1/2	WILLSCHEER_GBM_Verhaak-PN(mut&wt)_up(L)
11	3e-02	3/82	laffaire_hypermeth_LGG_vs_control
12	7e-02	1/8	Shaw_up_in_1p19qdel
13	1e-01	1/12	VERHAAK_Brain
14	1e-01	1/15	Gorovets_LGG_NB_subclass
15	2e-01	1/21	Hopp_Sturm_GBM_Epi3_B1_G34_DN

GSEA C2 Rank	p-value	#in/all	Geneset
1	1e-99	79/218	HSIAO_LIVER_SPECIFIC_GENES
2	2e-39	37/208	CAIRO_LIVER_DEVELOPMENT_DN
3	9e-34	35/243	HOSHIDA_LIVER_CANCER_SUBCLASS_S3
4	4e-33	35/250	CAIRO_HEPATOBLASTOMA_DN
5	4e-32	29/147	CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_DN
6	5e-29	38/421	ACEVEDO_LIVER_CANCER_DN
7	2e-28	21/64	KEGG_COMPLEMENT_AND_COAGULATION_CASCADES
8	6e-27	19/52	SU_LIVER
9	8e-26	35/410	PILON_KLF1_TARGETS_UP
10	8e-22	22/144	LEE_LIVER_CANCER_SURVIVAL_UP
11	2e-19	16/67	YAMASHITA_LIVER_CANCER_STEM_CELL_DN
12	6e-19	19/124	SERVITJA_LIVER_HNF1A_TARGETS_DN
13	5e-18	26/337	BOCHKIS_FOXA2_TARGETS
14	8e-18	17/100	OHGUCHI_LIVER_HNF4A_TARGETS_DN
15	2e-15	19/189	NABA_ECM_REGULATORS

LM Rank	p-value	#in/all	Geneset
1	2e-21	21/130	HALLMARK_COAGULATION
2	2e-13	17/181	HALLMARK_XENOBIOTIC_METABOLISM
3	2e-06	8/97	HALLMARK_BILE_ACID_METABOLISM
4	4e-03	6/178	HALLMARK_COMPLEMENT
5	4e-02	4/97	HALLMARK_PEROXISOME
6	1e-02	2/37	HALLMARK_KRAS_SIGNALING_UP
7	3e-02	5/34	HALLMARK_ANGIOGENESIS
8	8e-02	4/193	HALLMARK_ESTROGEN_RESPONSE_LATE
9	1e-01	3/139	HALLMARK_FATTY_ACID_METABOLISM
10	2e-01	2/96	HALLMARK_ANDROGEN_RESPONSE
11	3e-01	3/98	HALLMARK_HYPOXIA
12	3e-01	1/38	HALLMARK_HEDGEHOG_SIGNALING
13	5e-01	2/182	HALLMARK_GLYCOLYSIS
14	5e-01	2/187	HALLMARK_INFLAMMATORY_RESPONSE
15	5e-01	2/194	HALLMARK_ESTROGEN_RESPONSE_EARLY

Immunome Rank	p-value	#in/all	Geneset
1	0.1	1/16	Angelova_immune-metagenes-Th17
2	0.3	1/45	Angelova_immune-metagenes-MDSC
3	1.0	0/13	Angelova_immune-metagenes-activated_B-cells
4	1.0	0/26	Angelova_immune-metagenes-activated_CD8
5	1.0	0/19	Angelova_immune-metagenes-activated_CD8
6	1.0	0/21	Angelova_immune-metagenes-central_memory_CD4
7	1.0	0/17	Angelova_immune-metagenes-central_memory_CD8
8	1.0	0/7	Angelova_immune-metagenes-cytotoxic_cells
9	1.0	0/25	Angelova_immune-metagenes-DC
10	1.0	0/12	Angelova_immune-metagenes-effector_memory_CD4
11	1.0	0/32	Angelova_immune-metagenes-effector_memory_CD8
12	1.0	0/14	Angelova_immune-metagenes-eosinophil
13	1.0	0/19	Angelova_immune-metagenes-iDC
14	1.0	0/13	Angelova_immune-metagenes-immature_B-cells
15	1.0	0/11	Angelova_immune-metagenes-macrophages

Lifestyle Rank	p-value	#in/all	Geneset
1	0.06	1/7	DUMEAUX_Hormon therapy in non smokers literature genes up
2	0.10	2/62	DUMEAUX_Smoking enriched genes
3	1.00	0/10	DUMEAUX_Smoking literature genes up
4	1.00	0/4	DUMEAUX_Exercise in non smoker literature enriched genes
5	1.00	0/5	DUMEAUX_Estrogen related in smokers literature genes up
6	1.00	0/7	DUMEAUX_Estrogen related in non smokers literature genes up
7	1.00	0/9	DUMEAUX_Monocytes in smokers literature genes up
8	1.00	0/16	DUMEAUX_Red blood cells in non smokers literature genes up
9	1.00	0/12	DUMEAUX_Women normal BMI literature genes up
10	1.00	0/22	DUMEAUX_High bmi enriched genes
11	1.00	0/22	DUMEAUX_Fasting enriched genes
12	1.00	0/150	Homuth_BMI-associated_genes_UP
13	1.00	0/210	Homuth_BMI-associated_genes_DN
14	1.00	0/14	Huan_blood-pressure_SBP-signature
15	1.00	0/13	Huan_blood-pressure_DBP-signature

Lymphoma Rank	p-value	#in/all	Geneset
1	1e-09	46/2206	HOPP_Heterochrom
2	6e-05	6/53	LENZ_Stromal_signature_2
3	1e-03	10/378	TARTE_Mature_plasma_cell_signature
4	4e-03	40/3168	HOPP_Repressed
5	3e-02	4/130	Hopp_Lymphoma_Epi1_no_zentr_5_B_cell_GCB_UP
6	5e-02	3/94	Hopp_Lymphoma_Epi1_with_zentr_iii_B_cell_GCB_UP
7	6e-02	2/45	Subero_INT_hypo_meth
8	1e-01	1/12	Subero_MM_hypo_meth
9	1e-01	2/70	Subero_FL_hyper_meth
10	2e-01	2/102	ROSLOWSKI_blue_total
11	3e-01	1/46	Subero_DLBCL_hypo_meth
12	3e-01	1/47	Subero_B-ALL_hyper_meth
13	4e-01	1/66	Hopp_Lymphoma_Epi1_with_zentr_i_B_cell_DN
14	5e-01	1/70	Hopp_Lymphoma_Epi1_no_zentr_3_B_cell_DN
15	5e-01	1/87	Hopp_Lymphoma_Epi1_with_zentr_v_B_cell_DN

Melanoma Rank	p-value	#in/all	Geneset
1	0.002	4/64	Harbst_melanoma_lowgrade_up
2	0.165	4/249	Gerber_wtwt_melanoma-cells-SpotE
3	0.187	3/24	Gerami_melanoma-metastatic-risk_DN
4	0.285	1/39	Tirosh_melanoma_specific_genes
5	0.297	1/41	Tirosh_top50_correlated_genes_PC3
6	0.476	1/75	Tirosh_Endothelial-cell_specific_genes-melanoma
7	0.642	1/119	TCGA_melanoma_MITF_low
8	0.738	1/78	Tirosh_genes_from_malignant_cells_in_Mel79-melanoma
9	0.987	1/497	Gerber_wtwt_melanoma-cells-SpotD
10	1.000	0/17	Hugo_melanoma-all-MET_UP
11	1.000	0/37	Hugo_melanoma-all-MET_DN
12	1.000	0/38	Hugo_melanoma-BRAFmut-MET_UP
13	1.000	0/13	Hugo_melanoma-BRAFmut-MET_DN
14	1.000	0/16	Hugo_melanoma-all-LEF1_UP
15	1.000	0/8	Hugo_melanoma-BRAFmut-LEF1_UP

MF Rank	p-value	#in/all	Geneset
1	3e-15	13/61	serine-type endopeptidase inhibitor activity
2	6e-12	9/33	endopeptidase inhibitor activity
3	5e-11	11/77	peptidase inhibitor activity
4	2e-10	10/66	monoxygenase activity
5	7e-10	12/126	heparin binding
6	5e-09	7/30	oxygen binding
7	4e-08	18/447	oxidoreductase activity
8	5e-08	5/13	arachidonic acid epoxidase activity
9	8e-08	11/154	serine-type endopeptidase activity
10	2e-07	9/103	heme binding
11	3e-07	8/76	phospholipid binding
12	5e-07	9/113	iron ion binding
13	7e-07	7/60	oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen
14	1e-06	14/346	receptor binding
15	3e-06	8/104	serine-type peptidase activity

mikNA target Rank	p-value	#in/all	Geneset
1	0.5	1/83	hsa-miR-33b
2	0.7	1/155	hsa-miR-586
3	0.8	1/168	hsa-miR-33a
4	0.8	1/174	hsa-miR-548m
5	0.9	1/299	hsa-let-7c
6	0.9	1/329	hsa-let-7b
7	1.0	1/344	hsa-miR-19a
8	1.0	0/324	hsa-miR-497
9	1.0	0/244	hsa-miR-34c-5p
10	1.0	0/256	hsa-miR-548c-3p
11	1.0	0/295	hsa-miR-373
12	1.0	0/140	hsa-miR-520f
13	1.0	0/248	hsa-miR-520c-3p
14	1.0	0/236	hsa-miR-18b
15	1.0	0/75	hsa-miR-425

Pneumonia Rank	p-value	#in/all	Geneset
1	0.1	2/68	Burnham_sep_vs_con_UP
2	0.1	2/71	Burnham_cap_fp_vs_con_UP
3	0.1	1/18	Scicluna_UP
4	0.3	1/48	Burnham_viral_DN
5			

Overexpression Spots

Spot Summary: L

metagenes = 11
genes = 175

<r> metagenes = 0.98

<r> genes = 0.4

beta: r2= 10.02 / log p= -Inf

samples with spot = 40 (18.1 %)

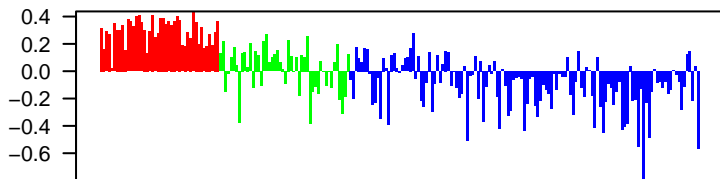
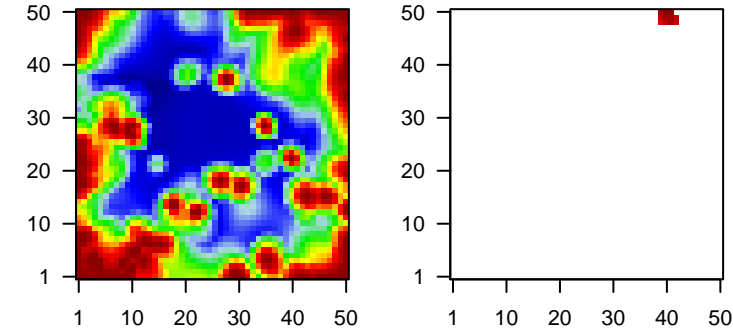
mBL : 34 (77.3 %)

intermediate : 5 (10.4 %)

non-mBL : 1 (0.8 %)

Overview Map

Spot

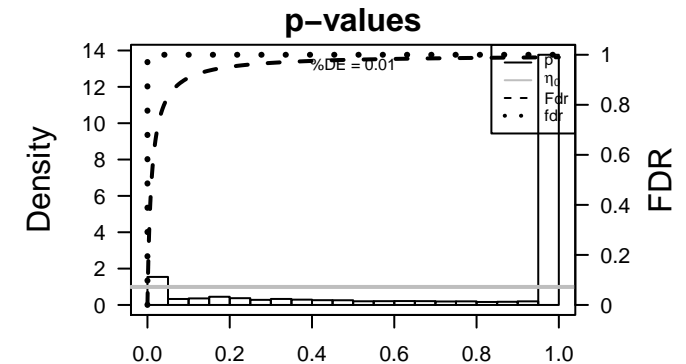


Spot Genelist

Rank	ID	max e	r	min e	Description
1	205229_s_at	1.84	-2.18	0.39	COCH cochlin [Source:HGNC Symbol;Acc:HGNC:2180]
2	209980_s_at	1.66	-1.51	0.73	SHMT1 serine hydroxymethyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:2180]
3	208502_s_at	1.64	-1.55	0.41	PITX1 paired like homeodomain 1 [Source:HGNC Symbol;Acc:HGNC:2180]
4	219474_at	1.6	-1.32	0.47	C3orf52 chromosome 3 open reading frame 52 [Source:HGNC Symbol;Acc:HGNC:2180]
5	203790_s_at	1.21	-1.38	0.57	RIDA reactive intermediate imine deaminase A homolog [Source:HGNC Symbol;Acc:HGNC:2180]
6	211767_at	1.12	-1.32	0.53	GINS4 GINS complex subunit 4 [Source:HGNC Symbol;Acc:HGNC:2180]
7	219556_at	1.12	-0.87	0.65	TEDC2 tubulin epsilon and delta complex 2 [Source:HGNC Symbol;Acc:HGNC:2180]
8	208492_at	1.11	-0.78	0.63	RFXAP regulatory factor X associated protein [Source:HGNC Symbol;Acc:HGNC:2180]
9	211814_s_at	1.09	-1.27	0.64	CCNE2 cyclin E2 [Source:HGNC Symbol;Acc:HGNC:1590]
10	220258_s_at	1.05	-0.98	0.6	WRAP53WD repeat containing antisense to TP53 [Source:HGNC Symbol;Acc:HGNC:2180]
11	212712_at	1.03	-0.91	0.51	CAMSAP1 calmodulin regulated spectrin associated protein 1 [Source:HGNC Symbol;Acc:HGNC:2180]
12	219311_at	1.03	-0.74	0.65	CEP76 centrosomal protein 76 [Source:HGNC Symbol;Acc:HGNC:2180]
13	210415_s_at	1.01	-0.81	0.51	ODF2 outer dense fiber of sperm tails 2 [Source:HGNC Symbol;Acc:HGNC:2180]
14	204603_at	0.97	-1.23	0.73	EXO1 exonuclease 1 [Source:HGNC Symbol;Acc:HGNC:3511]
15	220892_s_at	0.95	-1.71	0.58	PSAT1 phosphoserine aminotransferase 1 [Source:HGNC Symbol;Acc:HGNC:2180]
16	206654_s_at	0.95	-0.83	0.55	POLR3GRNA polymerase III subunit G [Source:HGNC Symbol;Acc:HGNC:2180]
17	201562_s_at	0.95	-0.9	0.46	SORBIT2 sorbitol dehydrogenase 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:2180]
18	213977_s_at	0.95	-1.4	0.47	CIZ1 CDKN1A interacting zinc finger protein 1 [Source:HGNC Symbol;Acc:HGNC:2180]
19	218051_s_at	0.94	-2.05	0.57	NT5DC2 5'-nucleotidase domain containing 2 [Source:HGNC Symbol;Acc:HGNC:2180]
20	205780_at	0.94	-2.54	0.32	BIK BCL2 interacting killer [Source:HGNC Symbol;Acc:HGNC:106]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-48	60 / 409	Cancer_Lembcke_Normal vs Adenoma
2	3e-45	79 / 966	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
3	4e-41	50 / 319	Melan_Gerber_wt/wt_melanoma-cells-SpotA
4	2e-40	55 / 431	GSE/ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
5	3e-37	45 / 280	GSE/ MANALO_HYPOXIA_DN
6	2e-32	60 / 758	GSE/ NUYTEN_EZH2_TARGETS_DN
7	1e-31	53 / 575	GSE/ CAIRO_HEPATOBLASTOMA_CLASSES_UP
8	6e-29	37 / 254	GSE/ DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
9	1e-28	45 / 439	GSE/ SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
10	2e-28	36 / 244	GSE/ KOBAYASHI_EGFR_SIGNALING_24HR_DN
11	3e-28	48 / 526	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
12	5e-28	64 / 1052	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_DN
13	4e-27	27 / 115	Gliom_WILLSCHER_GBM_Verhaak-CL_up (C)
14	7e-26	33 / 226	GSE/ ZHANG_TLX_TARGETS_60HR_DN
15	2e-25	51 / 703	GSE/ LEE_BMP2_TARGETS_DN
16	1e-24	27 / 140	GSE/ RUIZ_TNC_TARGETS_DN
17	6e-23	49 / 726	GSE/ PUJANA_CHEK2_PCC_NETWORK
18	2e-22	33 / 290	GSE/ WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_DN
19	3e-22	27 / 169	GSE/ FUJII_YBX1_TARGETS_DN
20	1e-21	33 / 307	GSE/ VECCHI_GASTRIC_CANCER_EARLY_UP
21	2e-21	39 / 466	GSE/ BERENJENO_TRANSFORMED_BY_RHOA_UP
22	4e-21	130 / 5529	Lymp_HOPP_Txn_elongation
23	2e-20	28 / 219	Refer_WIRTH_GC_B-cells
24	6e-20	22 / 117	GSE/ CHANG_CYCLING_GENES
25	2e-19	26 / 195	HM_HALLMARK_G2M_CHECKPOINT
26	2e-18	22 / 137	GSE/ ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
27	2e-18	24 / 174	GSE/ GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP
28	4e-18	18 / 79	Melan_Tirosh_core_cycling_genes_in_low- and_high-proliferation_melanoma
29	5e-18	33 / 400	GSE/ PUJANA_BRCA2_PCC_NETWORK
30	7e-18	30 / 321	GSE/ BLUM_RESPONSE_TO_SALIRASIB_DN
31	8e-18	62 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
32	6e-17	28 / 294	GSE/ WONG_EMBRYONIC_STEM_CELL_CORE
33	1e-16	2 / 14	Cancer_SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
34	1e-16	2 / 14	Cancer_SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
35	2e-16	38 / 616	GSE/ WEI_MYCN_TARGETS_WITH_E_BOX
36	3e-16	17 / 84	GSE/ GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_DN
37	4e-16	25 / 241	GSE/ BASAKI_YBX1_TARGETS_UP
38	5e-16	26 / 267	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_3_UP
39	1e-15	34 / 509	GSE/ RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_UP
40	2e-15	22 / 187	HM_HALLMARK_E2F_TARGETS



Rank	p-value	#in/all	Geneset
1	4e-04	7 / 107	HORVATH_aging_genes_meth_UP
2	7e-01	1 / 92	HORVATH_aging_genes_meth_DOWN
3	1e+00	0 / 47	TESCHENDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

BP Rank	p-value	#in/all	Geneset
1	1e-13	18 / 137	DNA replication
2	2e-11	24 / 497	cell cycle
3	4e-07	17 / 307	cell division
4	6e-07	16 / 281	DNA repair
5	2e-06	6 / 31	DNA replication initiation
6	2e-06	17 / 351	cellular response to DNA damage stimulus
7	2e-05	5 / 27	regulation of transcription involved in G1/S transition of mitotic cell cycle
8	2e-05	8 / 91	G1/S transition of mitotic cell cycle
9	3e-04	6 / 70	chromosome segregation
10	4e-04	4 / 27	DNA damage checkpoint
11	4e-04	9 / 174	rRNA processing
12	4e-04	7 / 110	regulation of cell cycle
13	6e-04	7 / 113	regulation of signal transduction by p53 class mediator
14	7e-04	3 / 14	purine nucleotide biosynthetic process
15	7e-04	3 / 14	purine ribonucleoside monophosphate biosynthetic process

Cancer Rank	p-value	#in/all	Geneset
1	5e-48	60 / 409	Lemcke_Normal vs Adenoma
2	1e-18	2 / 14	SOTTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
3	3e-05	4 / 15	GENTLES_modul2
4	2e-04	2 / 15	RHODES_UNDIFFERENTIATED_CANCER
5	2e-04	3 / 10	GENTLES_modul3
6	3e-03	4 / 45	KUIPER_MM_poor_survival
7	6e-03	6 / 30	PanCan_C+Apop_geneset_nanostring
8	1e-02	2 / 13	GENTLES_modul1
9	1e-02	2 / 14	LIU_COMMON_CANCER_GENES
10	1e-02	2 / 14	BENTINK_myc.1
11	2e-02	2 / 15	GENTLES_modul7
12	4e-02	3 / 58	SHAUGHNESSY_MM_high_risk
13	1e-01	2 / 41	PanCan_DNARepair_geneset_nanostring
14	1e-01	1 / 12	BENTINK_ras.1
15	2e-01	1 / 14	GENTLES_modul10

CC Rank	p-value	#in/all	Geneset
1	5e-11	69 / 2541	nucleoplasm
2	7e-10	97 / 4579	nucleus
3	3e-07	17 / 124	chromosome
4	3e-06	15 / 277	mitochondrial matrix
5	3e-06	17 / 354	centrosome
6	2e-05	33 / 1221	mitochondrion
7	3e-05	8 / 98	spindle pole
8	8e-05	21 / 653	nucleolus
9	1e-04	8 / 111	chromosome, centromeric region
10	3e-04	7 / 103	nuclear chromosome, telomeric region
11	4e-04	12 / 292	microtubule organizing center
12	1e-03	10 / 251	microtubule
13	2e-03	6 / 101	chromatin
14	2e-03	6 / 101	kinetochore
15	2e-03	66 / 3805	cytosol

Chr Rank	p-value	#in/all	Geneset
1	1e-04	15 / 382	Chr 15
2	4e-03	9 / 242	Chr 13
3	2e-02	12 / 492	Chr 9
4	5e-02	12 / 548	Chr 16
5	5e-02	24 / 1325	Chr 1
6	5e-02	10 / 437	Chr 8
7	1e-01	7 / 333	Chr 22
8	2e-01	13 / 776	Chr 11
9	4e-01	3 / 184	Chr 18
10	6e-01	7 / 554	Chr 5
11	7e-01	8 / 700	Chr 12
12	7e-01	5 / 480	Chr 4
13	7e-01	9 / 853	Chr 19
14	8e-01	4 / 403	Chr 14
15	8e-01	1 / 139	Chr 21

Chromatin states Rank	p-value	#in/all	Geneset
1	4e-22	156 / 7957	Tcells_peripheral_blood_2_TssAFlnk
2	2e-21	155 / 7930	Tregulatory_cells_peripheral_blood_1_TssA
3	6e-21	154 / 7930	natural_killer_cells_peripheral_blood_2_TssAFlnk
4	1e-19	157 / 8406	Bcells_peripheral_blood_2_TssAFlnk
5	2e-19	155 / 8200	monocytes_peripheral_blood_2_TssAFlnk
6	4e-19	155 / 8245	Tregulatory_cells_peripheral_blood_2_TssAFlnk
7	5e-19	126 / 5456	5_Tx_Neuraln_Progenitor
8	1e-18	156 / 8431	T_CDB+naive_cells_peripheral_blood_2_TssAFlnk
9	1e-18	159 / 8816	Thelper_cells_peripheral_blood_2_TssAFlnk
10	1e-18	155 / 8322	T_CDB+naive_cells_peripheral_blood_1_TssA
11	3e-18	147 / 7489	monocytes_peripheral_blood_5_TxWk
12	5e-18	150 / 7833	Bcells_peripheral_blood_1_TssA
13	6e-18	152 / 8068	Thelper_cells_peripheral_blood_1_TssA
14	8e-18	135 / 6788	4_Tx_ESC_Mesoderm
15	1e-17	131 / 6068	4_Tx_ESC_Endoderm

Colon Cancer Rank	p-value	#in/all	Geneset
1	3e-06	22 / 561	Pentrack_CRC_TCGA_group.over_C_normal_DN
2	2e-05	11 / 184	Kosinski_lower_crypt_long_list
3	2e-04	19 / 602	Pentrack_CRC_TCGA_corr_R_normal_DN
4	7e-02	29 / 1729	LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_t
5	7e-02	1 / 8	Marisa_CRC_C6
6	1e-01	1 / 8	KIM_MSI-in-EC
7	1e-01	1 / 8	Boland_CRC-MMR-system
8	1e-01	1 / 12	Juehling-MSI-enriched-in-6
9	1e-01	10 / 539	Lemcke_TCGA_meth_kmeans_L_CIMP_H_DN
10	2e-01	1 / 14	Hewitt_dMMR-secondary-mutations_DNA-repair
11	2e-01	19 / 1174	LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse_colo
12	2e-01	86 / 6368	LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
13	3e-01	1 / 24	Pentrack_CRC_TCGA_corr_S_normal_DN
14	3e-01	13 / 854	LaPointe_mucosa-position_kmeans_A_ascending_colon_UP
15	5e-01	7 / 532	LaPointe_mucosa-position_kmeans_B_ascending_colon_transverse_colon_UI

Glioma Rank	p-value	#in/all	Geneset
1	4e-27	27 / 115	WILLSCHER_GBM_Verhaak-CL_up (C)
2	3e-05	6 / 47	developing_astrocytes
3	2e-04	33 / 1343	Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
4	2e-03	5 / 66	Weller_LGG_gradall-vs-III_DOWN
5	3e-03	32 / 1523	Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
6	5e-02	13 / 614	Sturm_GBM_Meth_overexpression_E_G34_UP
7	1e-01	2 / 49	OPC
8	2e-01	2 / 58	Stuehler_Proteins_up_in_STS
9	2e-01	2 / 64	cultured_astroglia_vs_in_vivo_astrocytes
10	2e-01	1 / 22	Sturm_GBM_Meth_overexpression_H_K27_UP
11	4e-01	1 / 34	WILLSCHER_GBM_proteomics_wtOnly_SpotH
12	4e-01	1 / 35	Gorovets_LGG_EPL_subclass
13	5e-01	4 / 282	WILLSCHER_GBM_Verhaak-PNwt & CL_up
14	5e-01	1 / 52	GIEZELT_GBM_WT_down_VS_mut
15	5e-01	1 / 59	WILLSCHER_GBM_Verhaak-PNwt & MES_up

GSEA C2 Rank	p-value	#in/all	Geneset
1	3e-45	79 / 966	KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
2	2e-40	55 / 431	GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
3	3e-37	45 / 280	MANALO_HYPOXIA_DN
4	2e-32	60 / 758	NUTTEN_EZH2_TARGETS_DN
5	1e-31	53 / 575	CAIRO_HEPATOBLASTOMA_CLASSES_UP
6	6e-29	37 / 254	DUTERELLE ESTRADIOL_RESPONSE_24HR_UP
7	1e-28	45 / 439	SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
8	2e-28	36 / 244	KOBAYASHI_EGFR_SIGNALING_24HR_DN
9	3e-28	48 / 526	MARSON_BOUN_BY_E2F4_UNSTIMULATED
10	5e-28	63 / 1052	DODD_NASOPHARYNGEAL_CARCINOMA_DN
11	7e-26	33 / 226	ZHANG_TLX_TARGETS_60HR_DN
12	2e-25	51 / 703	LEE_BMP2_TARGETS_DN
13	1e-24	27 / 140	RUIZ_TNC_TARGETS_DN
14	6e-23	49 / 726	PUJANA_CHEK2_PCC_NETWORK
15	2e-22	33 / 290	WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_DN

LM Rank	p-value	#in/all	Geneset
1	2e-19	25 / 195	HALLMARK_G2M_CHECKPOINT
2	2e-15	25 / 187	HALLMARK_E2F_TARGETS
3	3e-08	9 / 55	HALLMARK_MYC_TARGETS_V2
4	3e-03	8 / 192	HALLMARK_MTORC1_SIGNALING
5	7e-03	7 / 173	HALLMARK_MITOTIC_SPINDLE
6	4e-02	11 / 190	HALLMARK_MYC_TARGETS_V1
7	9e-02	4 / 133	HALLMARK_DNA_REPAIR
8	2e-01	3 / 106	HALLMARK_UNFOLDED_PROTEIN_RESPONSE
9	2e-01	4 / 193	HALLMARK_ESTROGEN_RESPONSE_LATE
10	4e-01	3 / 170	HALLMARK_IL2_STAT5_SIGNALING
11	4e-01	3 / 186	HALLMARK_OXIDATIVE_PHOSPHORYLATION
12	5e-01	2 / 139	HALLMARK_FATTY_ACID_METABOLISM
13	5e-01	1 / 59	HALLMARK_CHOLESTEROL_HOMEOSTASIS
14	6e-01	2 / 149	HALLMARK_UV_RESPONSE_UP
15	7e-01	2 / 182	HALLMARK_GLYCOLYSIS

Immunome Rank	p-value	#in/all	Geneset
1	0.004	3 / 26	Angelova Immune-metagenes-activated_CD4
2	0.216	19	Angelova Immune-metagenes-activated_CD8
3	0.386	1 / 38	Angelova Immune-metagenes-mast-cells
4	1.000	0 / 13	Angelova Immune-metagenes-activated_B-cells
5	1.000	0 / 21	Angelova Immune-metagenes-central_memory_CD4
6	1.000	0 / 17	Angelova Immune-metagenes-central_memory_CD8
7	1.000	0 / 7	Angelova Immune-metagenes-cytotoxic_cells
8	1.000	0 / 25	Angelova Immune-metagenes-DC
9	1.000	0 / 12	Angelova Immune-metagenes-effector_memory_CD4
10	1.000	0 / 32	Angelova Immune-metagenes-effector_memory_CD8
11	1.000	0 / 14	Angelova Immune-metagenes-eosinophil
12	1.000	0 / 19	Angelova Immune-metagenes-IDC
13	1.000	0 / 13	Angelova Immune-metagenes-immature_B-cells
14	1.000	0 / 11	Angelova Immune-metagenes-macrophages
15	1.000	0 / 8	Angelova Immune-metagenes-mDC

Lifestyle Rank	p-value	#in/all	Geneset
1	0.9	1 / 150	Homuth_BMI-associated_genes_UP
2	0.9	1 / 210	Homuth_BMI-associated_genes_DN
3	1.0	0 / 62	DUMEAUX_Smoking_enriched_genes
4	1.0	0 / 10	DUMEAUX_Smoking_literature_genes_up
5	1.0	0 / 4	DUMEAUX_Exercise_in_non_smoker_literature_enriched_genes
6	1.0	0 / 5	DUMEAUX_Estrogen_related_in_smokers_literature_genes_up
7	1.0	0 / 7	DUMEAUX_Estrogen_related_in_non_smokers_literature_genes_up
8	1.0	0 / 7	DUMEAUX_Hormon_therapy_in_non_smokers_literature_genes_up
9	1.0	0 / 9	DUMEAUX_Monocytes_in_smokers_literature_genes_up
10	1.0	0 / 16	DUMEAUX_Red_blood_cells_in_non_smokers_literature_genes_up
11	1.0	0 / 22	DUMEAUX_Women_normal_BMI_literature_genes_up
12	1.0	0 / 22	DUMEAUX_High_bmi_enriched_genes
13	1.0	0 / 22	DUMEAUX_Fasting_enriched_genes
14	1.0	0 / 14	Huan_blood-pressure_SBP-signature
15	1.0	0 / 13	Huan_blood-pressure_DBP-signature

Lymphoma Rank	p-value	#in/all	Geneset
1	4e-21	130 / 5529	HOPP_Txn_elongation
2	1e-14	26 / 305	Tirosh_core_cycling_genes_in_low_and_high-proliferation_melanoma
3	1e-13	16 / 99	Sha_BL_UP
4	5e-13	121 / 5908	HOPP_Active_promoter
5	4e-11	18 / 192	Victoria_Dark_zone_signature
6	8e-09	90 / 4261	HOPP_Txn_transition
7	1e-07	12 / 135	DAVE_BL-vs-DLBCL
8	4e-07	23 / 355	SPANG_BCR_UP
9	5e-05	4 / 17	DAVE_c-myc_BL_UP
10	2e-03	6 / 102	ROSLOWSKI_blue_total
11	3e-03	4 / 45	SPANG_BAFF_9hrs_DN
12	1e-02	87 / 5682	HOPP_Weak_promoter
13	4e-02	4 / 18	ROSLOWSKI_green_UP
14	7e-02	4 / 121	ROSLOWSKI_green_total
15	8e-02	8 / 353	SPANG_CD40_6hrs_DN

Melanoma Rank	p-value	#in/all	Geneset
1	4e-41	50 / 319	Gerber_wt/wt_melanoma-cells-SpotA
2	4e-18	18 / 79	Tirosh_core_cycling_genes_in_low_and_high-proliferation_melanoma
3	1e-17	13 / 44	Tirosh_top50_correlated_genes_PC2
4	8e-09	10 / 65	Harbst_melanoma_highgrade_up
5	2e-08	8 / 38	Tirosh_G1/S_phase_specific_genes
6	3e-04	5 / 47	Tirosh_G2/M_phase_specific_genes
7	3e-03	4 / 46	Tirosh_top50_correlated_genes_PC5
8	5e-02	1 / 4	Melanoma_Epi-Enzyme_Cluster_3
9	5e-02	1 / 4	Melanoma_Epi-Enzyme_Cluster_5
10	1e-01	6 / 276	Gerber_wt/wt_melanoma-cells-SpotB
11	4e-01	4 / 249	Gerber_wt/wt_melanoma-cells-SpotE
12	5e-01	1 / 59	TCGA_melanoma_keratin_high
13	5e-01	3 / 39	Gerber_wt/wt_melanoma-cells-SpotC
14	7e-01	1 / 85	Tirosh_AXL-signature
15	8e-01	1 / 119	TCGA_melanoma_MITF_low

MF Rank	p-value	#in/all	Geneset
1	3e-06	34 / 1161	RNA binding
2	2e-05	15 / 328	chromatin binding
3	1e-04	5 / 37	exonuclease activity
4	4e-04	7 / 106	ligase activity
5	6e-04	6 / 81	single-stranded DNA binding
6	7e-04	4 / 32	DNA-directed 5'-3' RNA polymerase activity
7	1e-03	28 / 1185	ATP binding
8	2e-03	3 / 21	gamma-tubulin binding
9	5e-03	3 / 28	Ran GTPase binding
10	6e-03	5 / 90	nuclease activity
11	6e-03	31 / 1541	DNA binding
12	7e-03	116 / 7864	protein binding
13	8e-03	3 / 32	aminoacyl-tRNA ligase activity
14	8e-03	2 / 11	MAP kinase tyrosine/serine/threonine phosphatase activity
15	9e-03	3 / 34	tRNA binding

mikNA target Rank	p-value	#in/all	Geneset
1	6e-04	4 / 31	hsa-miR-661
2	4e-03	7 / 160	hsa-miR-330-3p
3	7e-03	4 / 59	hsa-miR-184
4	1e-04	4 / 71	hsa-miR-378
5	2e-02	6 / 157	hsa-miR-374a
6	2e-02	5 / 115	hsa-miR-28-5p
7	2e-02	6 / 166	hsa-miR-29b
8	3e-02	2 / 20	hsa-miR-662
9	3e-02	1 / 20	hsa-miR-220b
10	3e-02	3 / 51	hsa-miR-492
11	3e-02	3 / 52	hsa-miR-324-5p
12	3e-02	4 / 95	hsa-miR-376a
13	4e-02	2 / 24	hsa-miR-197
14	4e-02	3 /	

Overexpression Spots

Spot Summary: M

metagenes = 7
genes = 172

<r> metagenes = 0.98
<r> genes = 0.26
beta: r2= 8.66 / log p= -Inf

samples with spot = 41 (18.6 %)

mBL : 19 (43.2 %)
intermediate : 9 (18.8 %)
non-mBL : 13 (10.1 %)

Spot Genelist

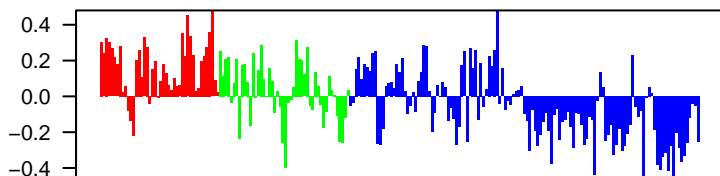
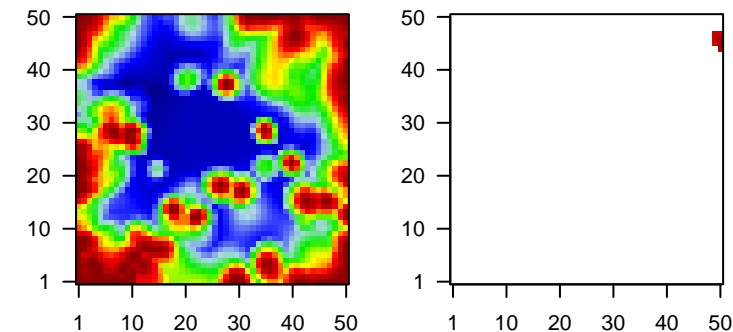
Rank	ID	max e	r	min e	Description
1	AFFX-r2-Hs2	2.62	-0.97	0.51	
2	208719_s_at	2	-1.36	0.47	DDX17 DEAD-box helicase 17 [Source:HGNC Symbol;Acc:HGNC:2
3	213668_s_at	1.86	-1.12	0.53	SOX4 SRY-box 4 [Source:HGNC Symbol;Acc:HGNC:11200]
4	201418_s_at	1.77	-1.36	0.36	SOX4 SRY-box 4 [Source:HGNC Symbol;Acc:HGNC:11200]
5	208151_x_at	1.73	-1.48	0.55	DDX17 DEAD-box helicase 17 [Source:HGNC Symbol;Acc:HGNC:2
6	AFFX-M2783	1.67	-1.23	0.58	
7	AFFX-r2-Hs2	1.66	-1.04	0.45	
8	221496_s_at	1.6	-1.41	0.67	TOB2 transducer of ERBB2, 2 [Source:HGNC Symbol;Acc:HGNC:1
9	206500_s_at	1.46	-1.04	0.65	MIS18B/MIS18 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:2
10	213789_at	1.44	-0.92	0.44	
11	203938_s_at	1.41	-1.47	0.5	TAF1C TATA-box binding protein associated factor, RNA polymerase
12	213328_at	1.34	-1.04	0.59	NEK1 NIMA related kinase 1 [Source:HGNC Symbol;Acc:HGNC:77
13	202048_s_at	1.31	-1.09	0.53	CBX6 chromobox 6 [Source:HGNC Symbol;Acc:HGNC:1556]
14	213998_s_at	1.25	-1.33	0.52	DDX17 DEAD-box helicase 17 [Source:HGNC Symbol;Acc:HGNC:2
15	219437_s_at	1.25	-1.33	0.64	ANKRD1ankyrin repeat domain 11 [Source:HGNC Symbol;Acc:HGNC
16	213979_s_at	1.24	-1.43	0.44	
17	213577_at	1.24	-1.21	0.47	SQLE squalene epoxidase [Source:HGNC Symbol;Acc:HGNC:1127
18	212468_at	1.23	-0.81	0.76	SPAG9 sperm associated antigen 9 [Source:HGNC Symbol;Acc:HGNC
19	220085_at	1.22	-2.09	0.81	HELLS helicase, lymphoid specific [Source:HGNC Symbol;Acc:HGNC
20	222158_s_at	1.21	-1.32	0.7	DESI2 desumoylating isopeptidase 2 [Source:HGNC Symbol;Acc:HGNC

Geneset Overrepresentation

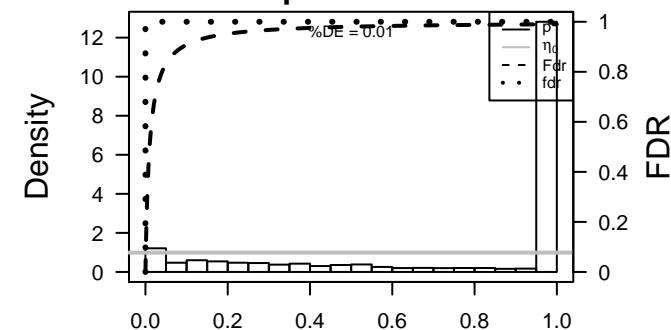
Rank	p-value	#in/all	Geneset
1	4e-20	21 / 106	Refer Chaussabel_2,11_Replication
2	9e-20	55 / 1174	Colon LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse_c
3	1e-13	112 / 5529	LympI HOPP_Txn_elongation
4	4e-11	91 / 4261	LympI HOPP_Txn_transition
5	5e-11	22 / 328	GSE/ OSMAN_BLADDER_CANCER_UP
6	4e-09	19 / 303	GSE/ SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_UP
7	1e-08	76 / 3564	TF ICGC_Taf1_targets
8	1e-08	31 / 830	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
9	3e-08	60 / 2541	CC nucleoplasm
10	3e-08	69 / 3150	TF ICGC_Creb1_targets
11	4e-08	11 / 102	LympI ROSOLOWSKI_blue_total
12	2e-07	103 / 5908	LympI HOPP_Active_promoter
13	2e-07	33 / 1044	TF ICGC_Six5_targets
14	2e-07	22 / 516	GSE/ HAMAL_APOPTOSIS_VIA_TRAIL_UP
15	2e-06	8 / 72	GSE/ BILD_CTNNB1_ONCOGENIC_SIGNATURE
16	3e-06	27 / 848	Color LaPointe_mucosa-position_kmeans_O_transverse_colon_UP
17	3e-06	83 / 4579	CC nucleus
18	6e-06	11 / 171	miRN hsa-miR-196a
19	7e-06	35 / 1343	Gliom Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
20	9e-06	20 / 549	TF ICGC_Atf3_targets
21	9e-06	78 / 4319	TF ICGC_Pou2_targets
22	1e-05	66 / 3451	TF ICGC_Atf2_targets
23	1e-05	18 / 469	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
24	2e-05	22 / 669	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
25	2e-05	70 / 3769	TF ICGC_Pmlsc71910_targets
26	2e-05	38 / 1578	TF ICGC_GabpPcr2_targets
27	2e-05	30 / 1107	TF ICGC_Myc_targets
28	2e-05	61 / 3121	TF ICGC_Egr1_targets
29	2e-05	14 / 309	GSE/ DAZARD_RESPONSE_TO_UV_NHEK_DN
30	2e-05	70 / 3804	TF ICGC_Stat5_targets
31	2e-05	15 / 354	CC centrosome
32	2e-05	4 / 15	BP protein localization to centrosome
33	3e-05	13 / 278	miRN hsa-let-7d
34	3e-05	29 / 1089	TF ICGC_Ets1_targets
35	4e-05	67 / 3630	TF ICGC_Sp1_targets
36	4e-05	5 / 32	BP centrosome cycle
37	4e-05	4 / 17	GSE/ REACTOME_FANCONI_ANEMIA_PATHWAY
38	4e-05	69 / 3796	TF ICGC_Nficsc81335_targets
39	4e-05	19 / 564	GSE/ RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_UP
40	4e-05	118 / 7864	MF protein binding

Overview Map

Spot



p-values



Rank	p-value	#in/all	Geneset
1	0.7	1 / 107	HOPVATH_aging_genes_meth_UP
2	1.0	0 / 82	HORVATH_aging_genes_meth_DOWN
3	1.0	0 / 47	TSCHEMDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Rank	p-value	#in/all	Geneset
1	3e-08	60 / 2541	nucleoplasm
2	3e-06	83 / 4579	nucleus
3	2e-05	15 / 384	centrosome
4	6e-05	7 / 85	centriole
5	8e-05	4 / 20	centriolar satellite
6	2e-04	12 / 292	microtubule organizing center
7	2e-03	4 / 44	nuclear chromosome
8	2e-03	17 / 653	nucleolus
9	4e-03	21 / 936	cytoskeleton
10	6e-03	10 / 324	chromosome
11	6e-03	5 / 98	spindle pole
12	7e-03	8 / 233	nuclear body
13	7e-03	2 / 11	pericentric heterochromatin
14	9e-03	2 / 12	integrator complex
15	1e-02	2 / 13	Ada2/Gcn5/Ada3 transcription activator complex

Rank	p-value	#in/all	Geneset
1	9e-20	55 / 1174	LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse_colo
2	3e-06	27 / 848	LaPointe_mucosa-position_kmeans_O_transverse_colon_UP
3	5e-04	36 / 1729	LaPointe_mucosa-position_kmeans_G_ascending_colon_UP_t
4	6e-03	13 / 492	LaPointe_mucosa-position_kmeans_C_ascending_colon_transp
5	2e-02	6 / 172	Pentrack_CRC_TCGA_corr_UI_msi-h_UP
6	2e-02	1 / 2	Hewish_dMMR-secondary-mutations_Damage_signaling
7	3e-02	17 / 854	LaPointe_mucosa-position_kmeans_A_ascending_colon_UP
8	4e-02	12 / 561	Pentrack_CRC_TCGA_group_over_C_normal_DN
9	4e-02	18 / 958	LaPointe_mucosa-position_kmeans_D_transverse_colon_UP
10	4e-02	24 / 1166	LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_ascending_colon_a
11	1e-01	1 / 10	KIM_CRC-MSI-regulated_DN
12	1e-01	2 / 49	Pentrack_CRC_TCGA_corr_N_msi-h_DN
13	1e-01	1 / 11	KIM_MSI-in-CRC
14	1e-01	21 / 1354	LaPointe_mucosa-position_kmeans_N_ascending_colon_UP_a
15	2e-01	2 / 60	Marisa_CRC-cluster-g

Rank	p-value	#in/all	Geneset
1	0.06	5 / 173	HALLMARK_MITOTIC_SPINDL
2	0.16	2 / 59	HALLMARK_CHOLESTEROL_HOMEOSTASIS
3	0.20	4 / 192	HALLMARK_MTORC1_SIGNALING
4	0.34	1 / 35	HALLMARK_HEDGEHOG_SIGNALING
5	0.35	3 / 176	HALLMARK_ALLOGRAFT_REJECTION
6	0.37	1 / 38	HALLMARK_WNT_BETA_CATENIN_SIGNALING
7	0.39	3 / 187	HALLMARK_E2F_TARGETS
8	0.41	3 / 193	HALLMARK_HEME_METABOLISM
9	0.41	3 / 194	HALLMARK_ESTROGEN_RESPONSE_EARLY
10	0.46	3 / 195	HALLMARK_G2M_CHECKPOINT
11	0.47	1 / 39	HALLMARK_TGF_BETA_SIGNALING
12	0.51	2 / 141	HALLMARK_UV_RESPONSE_DN
13	0.61	2 / 170	HALLMARK_IL2_STATS_SIGNALING
14	0.63	2 / 178	HALLMARK_COMPLEMENT
15	0.69	1 / 97	HALLMARK_PI3K_AKT_MTOR_SIGNALING

Rank	p-value	#in/all	Geneset
1	1e-13	112 / 5529	HOPP_Ixn_elongation
2	4e-11	91 / 4261	HOPP_Ixn_transition
3	4e-08	11 / 102	ROSLOWSKI_blue_total
4	2e-07	103 / 5908	HOPP_Active_promoter
5	1e-03	87 / 5682	HOPP_Weak_promoter
6	8e-03	80 / 5404	HOPP_Strong_enhancer
7	2e-02	7 / 227	SPANG_IL21_UP
8	2e-02	19 / 955	SPANG_BCR_UP
9	3e-02	9 / 353	SPANG_CD40_hrs_DN
10	3e-02	64 / 4357	HOPP_Weak_txn
11	4e-02	17 / 906	SPANG_BCR_DN
12	7e-02	2 / 35	Subero_MM_hyper_meth
13	7e-02	64 / 4559	HOPP_Weak_promoter
14	1e-01	67 / 1814	HOPP_Repetitive
15	3e-01	2 / 88	ROSLOWSKI_green_UP

Rank	p-value	#in/all	Geneset
1	6e-06	11 / 171	hsa-miR-196a
2	3e-05	13 / 278	hsa-let-7d
3	6e-05	5 / 36	hsa-miR-541
4	7e-04	9 / 1483	hsa-miR-539
5	1e-04	9 / 155	hsa-miR-381
6	1e-04	7 / 92	hsa-miR-199a-5p
7	1e-04	11 / 234	hsa-miR-570
8	4e-04	8 / 150	hsa-miR-300
9	5e-04	5 / 56	hsa-miR-1275
10	8e-04	4 / 35	hsa-miR-329
11	9e-04	5 / 63	hsa-miR-657
12	1e-03	6 / 100	hsa-miR-519e
13	2e-03	6 / 105	hsa-miR-335
14	2e-03	8 / 185	hsa-miR-181
15	2e-03	4 / 44	hsa-miR-575

Rank	p-value	#in/all	Geneset
1	0.3	1 / 27	Nabeta1n_alt_len_telomeres_genes_ks
2	1.0	0 / 13	Alternative lengthening of telomeres
3	NA	0 / 0	
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Rank	p-value	#in/all	Geneset
1	2e-05	4 / 15	protein localization to centrosome
2	4e-05	5 / 32	centrosome cycle
3	7e-05	12 / 260	chromatin organization
4	5e-04	35 / 1655	transcription, DNA-templated
5	7e-04	4 / 34	DNA damage response, detection of DNA damage
6	1e-03	4 / 37	interstrand cross-link repair
7	1e-03	12 / 351	cellular response to DNA damage stimulus
8	1e-03	11 / 307	cell division
9	1e-03	4 / 39	RNA secondary structure unwinding
10	1e-03	5 / 69	chromatin remodeling
11	1e-03	3 / 19	DNA replication-independent nucleosome assembly
12	2e-03	3 / 21	DNA methylation
13	2e-03	3 / 21	positive regulation of intracellular protein transport
14	2e-03	6 / 113	cell projection organization
15	3e-03	4 / 48	regulation of megakaryocyte differentiation

Rank	p-value	#in/all	Geneset
1	9e-04	16 / 548	Chr 16
2	1e-01	7 / 333	Chr 22
3	2e-01	20 / 105	Chr 1
4	2e-01	13 / 833	Chr 19
5	2e-01	11 / 689	Chr 3
6	3e-01	11 / 756	Chr 11
7	3e-01	11 / 776	Chr 17
8	4e-01	6 / 437	Chr 8
9	5e-01	2 / 139	Chr 21
10	6e-01	8 / 700	Chr 12
11	6e-01	4 / 369	Chr 20
12	6e-01	2 / 184	Chr 18
13	7e-01	6 / 304	Chr 5
14	7e-01	9 / 832	Chr 01
15	7e-01	5 / 480	Chr 4

Rank	p-value	#in/all	Geneset
1	7e-06	35 / 1343	Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
2	1e-04	35 / 1523	Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
3	1e-03	5 / 64	Weller_LGG_A_vs_O_DOWN
4	9e-03	2 / 12	Mukasa_UP_in_Oligodendrogloma_with_1intact
5	5e-02	7 / 282	WILLSCHER_GBM_Verhaak-PNwt & CL_up
6	7e-02	1 / 6	WILLSCHER_GBM_Verhaak-PNmut_up(M)
7	9e-02	1 / 8	WILLSCHER_GBM_LTSmut_proteomics-A_UP
8	1e-01	3 / 100	WILLSCHER_GBM_proteomics_wtOnly_SpotB
9	1e-01	11 / 614	Sturm_GBM_Meth_overexpression_E_G34_UP
10	1e-01	1 / 11	WILLSCHER_GBM_LTSwt_proteomics-C_UP
11	1e-01	6 / 286	Hopp_Sturm_GBM_Epi3_no_zentr_4_IDH_UP_adult_fetus_K27_DN
12	1e-01	1 / 12	Christensen_hypermethylated_in_ependymoma
13	1e-01	2 / 55	WILLSCHER_GBM_proteomics_wtOnly_SpotJ
14	1e-01	1 / 13	Christensen_hypomethylated_in_grade3_oligoastrocytoma
15	2e-01	1 / 16	VERHAAK_PN_subtype

Rank	p-value	#in/all	Geneset
1	0.02	2 / 18	Angelova Immune-metagenes-pDC
2	0.05	1 / 4	Angelova_CRC_MSS-neoantigens
3	0.08	1 / 7	Angelova_CRC_MSI-neoantigens
4	0.14	1 / 13	Angelova_CRC_MSS~neoantigens
5	0.27	1 / 26	Angelova Immune-metagenes-activated_CD4
6	0.37	0 / 13	Angelova Immune-metagenes-activated_B-cells
7	1.00	0 / 19	Angelova Immune-metagenes-activated_CD8
8	1.00	0 / 21	Angelova Immune-metagenes-central_memory_CD4
9	1.00	0 / 17	Angelova Immune-metagenes-central_memory_CD8
10	1.00	0 / 7	Angelova Immune-metagenes-cytotoxic_cells
11	1.00	0 / 25	Angelova Immune-metagenes-DC
12	1.00	0 / 12	Angelova Immune-metagenes-effector_memory_CD4
13	1.00	0 / 32	Angelova Immune-metagenes-effector_memory_CD8
14	1.00	0 / 14	Angelova Immune-metagenes-eosinophil
15	1.00	0 / 19	Angelova Immune-metagenes-IDC

Rank	p-value	#in/all	Geneset
1	0.005	8 / 222	Gerber_wt/wt_melanoma-cells-SpotF
2	0.024	1 / 2	Melanoma_Epi-Enzyme_Cluster_2
3	0.031	2 / 23	Melanoma_Epi-Enzyme_Cluster_3
4	0.058	6 / 230	Gerber_wt/wt_melanoma-cells-SpotC
5	0.076	2 / 38	Tirosh_top50_correlated_genes_PC1
6	0.076	2 / 38	Tirosh_G1/S_phase_specific_genes
7	0.181	4 / 185	Tirosh_genes_from_malignant_cells_in_Mel79-melanoma
8	0.251	1 / 24	Tirosh_G-cell_spec_genes-melanoma
9	0.313	4 / 236	Gerber_wt/wt_group3-specific
10	0.443	3 / 204	Landsberg_dedifferentiation_down
11	0.533	4 / 319	Gerber_wt/wt_melanoma-cells-SpotA
12	0.633	1 / 83	TCGA_melanoma Immune_high
13	0.643	3 / 66	Gerber_wt/wt_melanoma-cells-SpotE
14	0.803	2 / 249	Gerber_wt/wt_melanoma-cells-SpotB
15	0.851	4 / 497	Gerber_wt/wt_melanoma-cells-SpotD

Rank	p-value	#in/all	Geneset
1	0.03	3 / 54	Burnham_timecourse
2	0.44	1 / 48	Burnham_viral_DN
3	0.63	2 / 179	Terre_MSV_multiple_respiratory_viruses_dn
4	0.67	1 / 12	Terre_IL6_influenza_meth_signature
5	0.80	1 / 135	Terre_MSV_multiple_respiratory_viruses_up
6	0.68	0 / 68	Burnham_sep_vs_con_UP
7	1.00	0 / 56	Burnham_sep_vs_con_DN
8	1.00	0 / 48	Burnham_cap_ip_vs_con_DN
9	1.00	0 / 71	Burnham_cap_ip_vs_con_UP
10	1.00	0 / 57	Burnham_viral_UP
11	1.00	0 / 57	Burnham_day1_vs_5_UP
12	1.00	0 / 52	Burnham_day1_vs_5_DN
13	1.00	0 / 18	Scicluna_up
14	1.00	0 / 41	Scicluna_DN
15	1.00	0 / 37	Sweeney_viral_up

Rank	p-value	#in/all	Geneset
1	1e-08	76 / 3564	ICGC_Taf1_targets
2	3e-08	69 / 3150	ICGC_Creb1_targets
3	2e-07	33 / 1044	ICGC_Six5_targets
4	9e-06	20 / 549	ICGC_Atf3_targets
5	9e-06	78 / 4319	ICGC_Pou2_targets
6	1e-05	68 / 3451	ICGC_Atf2_targets
7	2e-05	70 / 3769	ICGC_Pmlsc7f910_targets
8	2e-05	38 / 1578	ICGC_GabpPcr2_targets
9	2e-05	30 / 1107	ICGC_Myc_targets
10	2e-05	61 / 3121	ICGC_Egr1_targets
11	3e-05	70 / 3804	ICGC-Sta5_targets
12	3e-05	29 / 1089	ICGC_Ets1_targets
13	4e-05	67 / 3630	ICGC_Sp1_targets
14	4e-05	69 / 3796	ICGC_Nfics81335_targets
15	6e-05	73 / 4131	ICGC_Tcf3_targets

Rank	p-value	#in/all	Geneset
1	0.05	4 / 113	PanCan_Driver_Gene_geneset_nanostring
2	0.10	2 / 45	KUIJPER_MM_poor_survival
3	0.16	1 / 14	BENTINK_myc.1
4	0.16	1 / 14	BENTINK_ras.6
5	0.17	1 / 15	WANG_ER_UP
6	0.21	1 / 20	PanCan_ChromMod_geneset_nanostring
7	0.26	1 / 25	PanCan_HH_geneset_nanostring
8	0.27	0 / 16	LIU_LIVER_CANCER
9	0.39	1 / 41	PanCan_DNARepair_geneset_nanostring
10	0.46	2 / 130	PanCan_CC+Apop_geneset_nanostring
11	0.50	0 / 15	RHODES_CANCER_META_SIGNATURE
12	0.54	5 / 409	Lembcke_Normal_vs_Adenoma
13	0.60	0 / 11	LIU_PROSTATE_CANCER_UP
14	0.83	0 / 14	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
15	0.99	0 / 14	LIU_PROSTATE_CANCER_DN

Rank	p-value	#in/all	Geneset
1	2e-20	123 / 5527	Tregulatory cells peripheral blood_4_Tx
2	3e-20	132 / 6389	4_Tx_ESC_Mesoderm
3	4e-20	105 / 5753	Tcells_peripheral_blood_4_Tx
4	2e-19	144 / 7833	Bcells_peripheral_blood_1_TssA
5	2e-18	126 / 6068	4_Tx_ESC_Endoderm
6	5e-18	125 / 6034	5_Tx_Fibroblasts
7	1e-17	122 / 5766	natural killer cells peripheral blood_4_Tx
8	1e-17	121 / 5716	Bcells_peripheral_blood_4_Tx
9	2e-17	137 / 7421	Tcells_peripheral_blood_1_TssA
10	9e-17	139 / 7635	monocytes_peripheral_blood_1_TssA
11	9e-17	140 / 7751	natural killer cells peripheral blood_1_TssA
12	1e-16	107 / 4683	Overlap_fetal_midbrain_HetRpts
13	1e-16	118 / 5601	Thelper cells peripheral blood_4_Tx
14	1e-16	144 / 8245	Tregulatory cells peripheral blood_2_TssAFlnk
15	2e-16	116 / 5456	5_Tx_Neuronal_Progenitor

Rank	p-value	#in/all	Geneset
1	5e-11	22 / 328	OSMAN_BLADDER_CANCER_UP
2	4e-09	19 / 303	SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_UP
3	1e-08	31 / 830	DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
4	2e-07	22 / 516	HAMA1_APOPTOSIS_VIA_TFAP2_UP

Overexpression Spots

Spot Summary: N

metagenes = 5
genes = 44

<r> metagenes = 0.98
<r> genes = 0.13
beta: r2= 0.17 / log p= -9.7

samples with spot = 5 (2.3 %)
intermediate : 2 (4.2 %)
non-mBL : 3 (2.3 %)

Spot Genelist

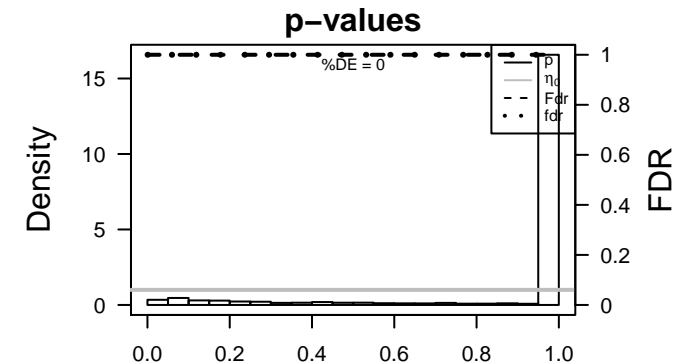
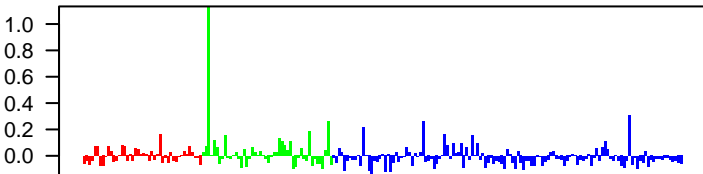
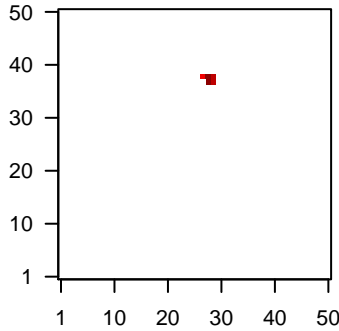
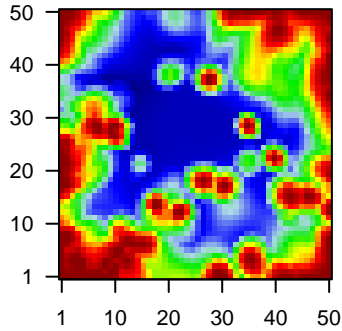
Rank	ID	max e	r	min e	Description
					Symbol
1	220231_at	2.36	-0.6	0.44	PPP1R1 protein phosphatase 1 regulatory subunit 17 [Source:HGNC S
2	206163_at	2.29	-0.52	0.38	MAB21L1 mab-21 like 1 [Source:HGNC Symbol;Acc:HGNC:6757]
3	220196_at	2.26	-0.67	0.47	MUC16 mucin 16, cell surface associated [Source:HGNC Symbol;Acc
4	211102_s_at	2.16	-0.7	0.45	LILRA2 leukocyte immunoglobulin like receptor A2 [Source:HGNC Sy
5	206523_at	2.08	-0.71	0.42	CYTH3 cytohesin 3 [Source:HGNC Symbol;Acc:HGNC:9504]
6	206981_at	2.07	-0.55	0.46	SCN4A sodium voltage-gated channel alpha subunit 4 [Source:HGNC
7	219643_at	2.06	-0.5	0.54	LRP1B LDL receptor related protein 1B [Source:HGNC Symbol;Acc:t
8	214961_at	2.01	-0.68	0.49	MTUS2 microtubule associated scaffold protein 2 [Source:HGNC Syrr
9	208389_s_at	1.98	-0.75	0.3	SLC1A2 solute carrier family 1 member 2 [Source:HGNC Symbol;Acc:
10	208037_s_at	1.97	-0.95	0.29	MADCAM1 mucosal vascular addressin cell adhesion molecule 1 [Source
11	219695_at	1.97	-0.94	0.33	SMPD3 sphingomyelin phosphodiesterase 3 [Source:HGNC Symbol;f
12	205870_at	1.94	-0.75	0.42	BDKRB2 bradykinin receptor B2 [Source:HGNC Symbol;Acc:HGNC:10
13	221843_s_at	1.73	-0.65	0.55	TLDC1 TBC/LysM-associated domain containing 1 [Source:HGNC S
14	210761_s_at	1.69	-0.95	0.33	GRB7 growth factor receptor bound protein 7 [Source:HGNC Symbc
15	206594_at	1.66	-1.13	0.39	PASK PAS domain containing serine/threonine kinase [Source:HGNC
16	206638_at	1.65	-0.59	0.4	HTR2B 5-hydroxytryptamine receptor 2B [Source:HGNC Symbol;Acc
17	221345_at	1.62	-0.41	0.4	FFAR2 free fatty acid receptor 2 [Source:HGNC Symbol;Acc:HGNC:c
18	207229_at	1.54	-0.72	0.38	killer cell lectin like receptor A1, pseudogene [Source:HGNC :
19	207047_s_at	1.35	-0.56	0.37	CLCNKA chloride voltage-gated channel Ka [Source:HGNC Symbol;A
20	202821_s_at	1.34	-0.68	0.53	LPP LIM domain containing preferred translocation partner in lipor

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-04	4 / 97	GSE# BROWNE_HCMV_INFECTION_20HR_DN
2	8e-04	2 / 13	CC voltage-gated sodium channel complex
3	1e-03	2 / 17	BP smooth muscle contraction
4	2e-03	2 / 18	BP vasoconstriction
5	2e-03	2 / 20	MF voltage-gated sodium channel activity
6	3e-03	2 / 23	BP membrane depolarization during action potential
7	3e-03	2 / 26	MF sodium channel activity
8	3e-03	2 / 26	GSE# ST_INTERLEUKIN_4_PATHWAY
9	4e-03	2 / 29	BP neuronal action potential
10	5e-03	2 / 32	GSE# KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION
11	5e-03	2 / 32	GSE# SIG_PIP3_SIGNALING_IN_B_LYMPHOCYTES
12	5e-03	8 / 832	Chr Chr 2
13	5e-03	3 / 107	MF voltage-gated ion channel activity
14	5e-03	2 / 33	Lymp Subero_T-PLL_hypo_meth
15	5e-03	2 / 33	GSE# ST_PHOSPHOINOSITIDE_3_KINASE_PATHWAY
16	5e-03	9 / 1029	GSE# DODD_NASOPHARYNGEAL_CARCINOMA_UP
17	5e-03	4 / 217	MF lipid binding
18	5e-03	2 / 34	GSE# ONO_AML1_TARGETS_DN
19	6e-03	3 / 112	BP regulation of ion transmembrane transport
20	6e-03	2 / 36	GSE# SHIPP_DLBCL_CURED_VS_FATAL_UP
21	6e-03	2 / 36	GSE# ONO_FOXP3_TARGETS_DN
22	7e-03	2 / 38	GSE# MANTOVANI_VIRAL_GPCR_SIGNALING_DN
23	9e-03	2 / 44	BP calcium-mediated signaling
24	9e-03	3 / 134	CC vesicle
25	1e-02	2 / 46	GSE# BROWNE_HCMV_INFECTION_2HR_DN
26	1e-02	2 / 47	GSE# SIG_INSULIN_RECEPTOR_PATHWAY_IN_CARDIAC_MYOCYTES
27	1e-02	3 / 146	GSE# REACTOME_G_ALPHA_Q_SIGNALLING_EVENTS
28	1e-02	4 / 277	CC neuron projection
29	1e-02	4 / 277	GSE# BROWNE_HCMV_INFECTION_14HR_DN
30	1e-02	2 / 56	BP negative regulation of translation
31	1e-02	2 / 56	Lymp Hopp_Lymphoma_Epi1_with_zentr_iv_B.cell_MM_UP
32	2e-02	2 / 58	BP sodium ion transmembrane transport
33	2e-02	2 / 58	GSE# TAYLOR_METHYLATED_IN_ACUTE_LYMPHOBLASTIC_LEUKEMIA
34	2e-02	1 / 5	GSE# REACTOME_NEGATIVE_REGULATION_OF_THE_P13K_AKT_NETWORK
35	2e-02	1 / 5	GSE# KREPPPEL_CD99_TARGETS_UP
36	2e-02	7 / 826	GSE# ZWANG_TRANSIENTLY_UP_BY_2ND_EGF_PULSE_ONLY
37	2e-02	3 / 166	GSE# REACTOME_GASTRIN_CREB_SIGNALLING_PATHWAY_VIA_PKC_AND
38	2e-02	2 / 61	GSE# JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_DN
39	2e-02	2 / 62	BP positive regulation of translation
40	2e-02	4 / 307	GSE# RATTENBACHER_BOUND_BY_CELF1

Overview Map

Spot



Rank	p-value	#in/all	Geneset
1	1	0/92	HORVATH_aging_genes_meth_DOWN
2	1	0/107	HORVATH_aging_genes_meth_UP
3	1	0/47	TESCHENDORFF_age_hypermethylated
4	NA	0/0	
5	NA	0/0	
6	NA	0/0	
7	NA	0/0	
8	NA	0/0	
9	NA	0/0	
10	NA	0/0	
11	NA	0/0	
12	NA	0/0	
13	NA	0/0	
14	NA	0/0	
15	NA	0/0	

Rank	p-value	#in/all	Geneset
1	8e-04	2/13	voltage-gated sodium channel complex
2	9e-03	3/134	vesicle
3	1e-02	4/277	neuron projection
4	3e-02	1/10	VCP-NPL4-UFD1 AAA ATPase complex
5	4e-02	1/11	CCR4-NOT complex
6	4e-02	1/12	apical dendrite
7	4e-02	16/3210	plasma membrane
8	1/8	1/13	axolemma
9	4e-02	5/595	cell junction
10	4e-02	2/103	nuclear chromosome, telomeric region
11	5e-02	1/15	pericentriolar material
12	6e-02	23/5339	membrane
13	6e-02	1/18	cytoplasmic dynein complex
14	6e-02	1/18	transcription elongation factor complex
15	7e-02	1/21	mitotic spindle pole

Rank	p-value	#in/all	Geneset
1	0.02	1/6	Juehling_HNPCC-mutated-in-5
2	0.04	2/103	Marisa_CRC-cluster-b
3	0.05	1/15	TGCA-CRC_less-aggressive-disease-markers
4	0.06	6/848	LaPointe_mucosa-position_kmeans_O_transverse_colon_UP_
5	0.08	1/25	Ang_CRC-CIMP_H-vs_L_hypo
6	0.11	1/35	Ang_CRC_Hypomethylated
7	0.14	5/854	LaPointe_mucosa-position_kmeans_A_ascending_colon_UP_
8	0.15	1/49	Pentracr_CRC_TGCA_corr_n_msi-h_DN
9	0.20	2/255	Kosinski_top_cyp1-longist
10	0.22	4/738	Lembcke_TGCA_expr_kmeans_CNIP_H_DN
11	0.24	2/290	Lembcke_TGCA_meth_kmeans_O_CIMP_H_DN
12	0.25	3/532	LaPointe_mucosa-position_kmeans_B_ascending_colon_transverse_colon_U
13	0.26	1/92	Marisa_CRC-cluster-h
14	0.28	2/318	Lembcke_TGCA_meth_kmeans_E_CIMP_H_UP
15	0.30	23/6368	LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP_

Rank	p-value	#in/all	Geneset
1	0.02	3/174	HALLMARK_APICAL_JUNCTION
2	0.12	1/39	HALLMARK_PANCREAS_BETA_CELLS
3	0.12	2/187	HALLMARK_INFAMMATORY_RESPONSE
4	0.27	1/97	HALLMARK_PI3K_AKT_MTOR_SIGNALING
5	0.37	1/141	HALLMARK_UV_RESPONSE_DN
6	0.42	1/166	HALLMARK_INTERFERON_GAMMA_RESPONSE
7	0.44	1/174	HALLMARK_ADIPOGENESIS
8	0.44	1/176	HALLMARK_ALLOGRAFT_REJECTION
9	0.46	1/186	HALLMARK_OXIDATIVE_PHOSPHORYLATION
10	0.47	1/191	HALLMARK_P53_PATHWAY
11	0.47	1/193	HALLMARK_ESTROGEN_RESPONSE_LATE
12	0.47	1/193	HALLMARK_MYOGENESIS
13	0.47	1/195	HALLMARK_KRAS_SIGNALING_DN
14	1.00	0/190	HALLMARK_TNFA_SIGNALING_VIA_NFKB
15	1.00	0/188	HALLMARK_HYPOXIA

Rank	p-value	#in/all	Geneset
1	0.005	2/33	Subero_T-PLL_hypo_meth
2	0.01	2/56	Hopp_Lymphoma_Epi1_with_zentr_iv_B.cell_MM_UP
3	0.037	3/227	SPANG_IL21_UP
4	0.042	1/13	Hopp_Lymphoma_Epi1_with_zentr_ii_MCL_mBL_UP
5	0.054	1/17	Aukema_BCL2_UP_BCL6_DN
6	0.072	1/23	Subero_mBL_hypo_meth
7	0.123	1/40	CARO_OxPhos_in_DLCL_UP
8	0.129	2/192	Victoria_Dark_zone_signature
9	0.137	1/45	Subero_INT_hypo_meth
10	0.140	1/46	Subero_DLCL_hypo_meth
11	0.142	18/4357	HOPP_Weak_bxn
12	0.170	10/2206	HOPP_Heterochrom
13	0.182	18/4559	HOPP_Weak_enhancer
14	0.268	21/5682	HOPP_Weak_promoter
15	0.320	2/353	SPANG_CD40_hrs_DN

Rank	p-value	#in/all	Geneset
1	0.05	1/16	hsa-miR-380*
2	0.07	2/134	hsa-miR-31
3	0.08	1/26	hsa-miR-127-3p
4	0.11	1/35	hsa-miR-1224-5p
5	0.11	1/36	hsa-miR-766
6	0.13	1/41	hsa-miR-1201
7	0.13	1/43	hsa-miR-328
8	0.13	2/197	hsa-miR-152
9	0.14	3/404	hsa-miR-63
10	0.14	3/405	hsa-miR-107
11	0.15	1/49	hsa-miR-330-5p
12	0.16	1/54	hsa-miR-1184
13	0.16	1/54	hsa-miR-1262
14	0.17	1/57	hsa-miR-935
15	0.17	1/57	hsa-miR-9*

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

Rank	p-value	#in/all	Geneset
1	0.001	2/17	smooth muscle contraction
2	0.002	2/18	vasoconstriction
3	0.003	2/23	membrane depolarization during action potential
4	0.004	2/29	neuronal action potential
5	0.006	3/112	regulation of ion transmembrane transport
6	0.009	2/44	calcium-mediated signaling
7	0.014	2/56	negative regulation of translation
8	0.015	2/58	sodium ion transmembrane transport
9	0.017	2/62	positive regulation of translation
10	0.018	2/64	multicellular organism growth
11	0.018	2/64	positive regulation of endothelial cell proliferation
12	0.032	1/10	magnesium ion transmembrane transport
13	0.032	1/10	mitochondrial genome maintenance
14	0.032	1/10	positive regulation of nuclear-transcribed mRNA catabolic process, deadenylation
15	0.032	1/10	positive regulation of nuclear-transcribed mRNA poly(A) tail shortening

Rank	p-value	#in/all	Geneset
1	0.005	8/832	Chr 2
2	0.186	2/242	Chr 13
3	0.213	3/420	Chr 1
4	0.287	4/833	Chr 19
5	0.366	1/139	Chr 21
6	0.391	3/689	Chr 3
7	0.419	2/437	Chr 8
8	0.538	2/548	Chr 16
9	0.544	2/544	Chr 5
10	0.574	2/585	Chr 7
11	0.639	4/1335	Chr 1
12	0.667	1/323	Chr 22
13	0.714	2/756	Chr 12
14	0.718	1/382	Chr 15
15	0.728	2/776	Chr 17

Rank	p-value	#in/all	Geneset
1	0.02	2/66	Christensen_hypermethylated_in_grade2_astrocytoma
2	0.03	2/87	Christensen_hypermethylated_in_secondary_glioblastoma
3	0.04	2/102	WILLSCHER_GBM_Verhaak-PN (mut&wt)_up_(MES&CL down)
4	0.04	1/14	astrocytes_glio
5	0.05	2/372	Christensen_hypermethylated_in_grade3_astrocytoma
6	0.05	2/114	Christensen_hypermethylated_in_grade2_oligoastrocytoma
7	0.07	2/132	Christensen_hypermethylated_in_grade3_oligoastrocytoma
8	0.08	2/144	Christensen_hypermethylated_in_grade2_oligodendroglioma
9	0.11	1/34	WILLSCHER_GBM_proteomics_wtOnly_Spot
10	0.11	2/11	Willsch_Strum_cm_CRTK1/PDGFRA_DN
11	0.14	1/47	GIEZELT_GBM_STSwt_up_VS_LTSwt
12	0.16	1/52	GIEZELT_GBM_WT_down_VS_mut
13	0.16	3/423	Down_a
14	0.18	1/59	GIEZELT_GBM_STS_up_VS_LTS
15	0.18	1/61	Christensen_hypomethylated_in_secondary_glioblastoma

Rank	p-value	#in/all	Geneset
1	0.05	1/15	Angelova Immune-metagenes-NK
2	0.07	1/23	Angelova Immune-metagenes-Th2
3	0.07	1/23	Angelova Immune-metagenes-Treg
4	1.00	0/13	Angelova Immune-metagenes-activated B-cells
5	1.00	0/26	Angelova Immune-metagenes-activated CD4
6	1.00	0/19	Angelova Immune-metagenes-activated CD8
7	1.00	0/21	Angelova Immune-metagenes-central_memory_CD4
8	1.00	0/17	Angelova Immune-metagenes-central_memory_CD8
9	1.00	0/7	Angelova Immune-metagenes-cytotoxic cells
10	1.00	0/25	Angelova Immune-metagenes-DC
11	1.00	0/12	Angelova Immune-metagenes-effector_memory_CD4
12	1.00	0/32	Angelova Immune-metagenes-effector_memory_CD8
13	1.00	0/14	Angelova Immune-metagenes-eosinophil
14	1.00	0/19	Angelova Immune-metagenes-IDC
15	1.00	0/13	Angelova Immune-metagenes-immature_B-cells

Rank	p-value	#in/all	Geneset
1	0.1	2/204	Landsberg_dedifferentiation_down
2	0.2	2/236	Gerber_wtwt_graup3-specific
3	0.3	1/1119	TCGA_melanoma_MITF_low
4	0.5	1/222	Gerber_wtwt_melanoma-cells-SpotF
5	0.5	1/230	Gerber_wtwt_melanoma-cells-SpotC
6	0.8	1/497	Gerber_wtwt_melanoma-cells-SpotD
7	1.0	0/17	Hugo_melanoma-all-MET_UP
8	1.0	0/37	Hugo_melanoma-BRAFmut-DN
9	1.0	0/38	Hugo_melanoma-BRAFmut-MET_UP
10	1.0	0/5	Hugo_melanoma-BRAFmut-MET_DN
11	1.0	0/16	Hugo_melanoma-all-LEF1_UP
12	1.0	0/8	Hugo_melanoma-BRAFmut-LEF1_UP
13	1.0	0/85	Tirosh_AXL-signature
14	1.0	0/107	Tirosh_Exhaustion program in Mel75
15	1.0	0/68	Tirosh_housekeeping_genes

Rank	p-value	#in/all	Geneset
1	0.02	3/179	Terre_MSIV_multiple_respiratory_viruses_dn
2	1.00	0/68	Burnham_sep_vs_con_UP
3	1.00	0/56	Burnham_sep_vs_con_DN
4	1.00	0/48	Burnham_cap_fp_vs_con_DN
5	1.00	0/71	Burnham_cap_fp_vs_con_UP
6	1.00	0/48	Burnham_viral_DN
7	1.00	0/57	Burnham_viral_UP
8	1.00	0/57	Burnham_day1_vs_5_UP
9	1.00	0/52	Burnham_day1_vs_5_DN
10	1.00	0/54	Burnham_timecourse
11	1.00	0/18	SciCluna_UP
12	1.00	0/41	SciCluna_DN
13	1.00	0/37	Sweeney_viral_up
14	1.00	0/33	Sweeney_viral_dn
15	1.00	0/122	Terre_IMS_influenza_meta_signature

Rank	p-value	#in/all	Geneset
1	0.08	8/1387	HEBENSTREIT_high_expression_TF
2	0.26	9/2150	ICGC_Irf4_targets
3	0.35	12/3213	ICGC_Pu1_targets
4	0.44	4/1032	ICGC_Usf1_targets
5	0.45	4/1044	ICGC_Six5_targets
6	0.48	8/2254	ICGC_BatfPcr1_targets
7	0.51	2/522	ICGC_SrfPcr2_targets
8	0.55	5/1508	ICGC_Mef2_targets
9	0.66	3/1025	ICGC_Nr3fPcr1_targets
10	0.70	3/1089	ICGC_Ets1_targets
11	0.73	11/3766	ICGC_Nfics81336_targets
12	0.73	3/1148	HEBENSTREIT_low_expression_TF
13	0.75	1/415	ICGC_RxraPcr1_targets
14	0.79	6/2321	ICGC_Rad21_targets
15	0.80	4/1636	ICGC_Bcl11_targets

Rank	p-value	#in/all	Geneset
1	0.1	1/41	PanCan_DNARepair_geneset_nanostring
2	0.3	1/80	PanCan_JAK-ST_geneset_nanostring
3	0.3	1/130	PanCan_CC+Apop_geneset_nanostring
4	0.4	1/134	PanCan_RAS_geneset_nanostring
5	0.4	1/147	PanCan_MAPK_geneset_nanostring
6	0.5	1/187	PanCan_PI3K_geneset_nanostring
7	0.6	1/317	SPANG_BCL6-index2
8	0.7	1/409	Lembcke_Normal vs Adenoma
9	1.0	0/15	RHODES_CANCER_META_SIGNATURE
10	1.0	0/15	RHODES_UNDIFFERENTIATED_CANCER
11	1.0	0/16	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN
12	1.0	0/14	SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
13	1.0	0/12	LIU_BREAST_CANCER
14	1.0	0/14	LIU_COMMON_CANCER_GENES
15	1.0	0/16	LIU_LIVER_CANCER

Rank	p-value	#in/all	Geneset
1	0.01	28/6114	7_Enh_Fibroblasts
2	0.01	16/2825	9_Het_ESC_Mesoderm
3	0.01	14/2338	10cells_peripheral_blood_9_Het
4	0.02	32/7583	15_Quies_Skeletal_Muscle
5	0.02	29/6637	Tcells_peripheral_blood_5_TxWk
6	0.02	19/3838	15_Quies_ESC_Mesoderm
7	0.03	16/3089	Regulatory_cells_peripheral_blood_14_ReprPCWk
8	0.03	29/6906	3_Tssf_Fibroblasts
9	0.04	18/3755	ISC_15_Quies
10	0.05	29/7078	7_Enh_ESC_Mesoderm
11	0.05	17/3540	Regulatory_cells_peripheral_blood_15_Quies
12	0.05	12/2269	9_ReprPCWk_Neural_Progenitor
13	0.05	14/2732	EmbWk_Colon
14	0.06	13/2548	ISC_9_Het
15	0.06	18/3918	Tcells_peripheral_blood_14_ReprPCWk

Rank	p-value	#in/all	Geneset
1	3e-04	4/97	BROWNE_HCMV_INFECTION_20HR_DN
2	3e-03	2/26	ST_INTERLEUKIN_4_PATHWAY
3	5e-03	2/32	KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION
4	5e-03	2/32	ST_IP3_SIGNALING_IN_B_LYMPHOCYTES
5	5e-03	2/33	ST_PHOSPHOINOSITIDE_3_KINASE_PATHWAY
6	5e-03	9/1029	DODD_NASOPHARYNGEAL_CARCINOMA_UP
7	5e-03	2/34	ONO_AML1_TARGETS_DN
8	6e-03	2/36	SHIPP_DLCL_CURED_VS_FATAL_UP
9	6e-03	2/36	ONO_FOXP3_TARGETS_DN
10	7e-03	2/36	MANTOVANI_VIRAL_GPCR_SIGNALING_DN
11	1e-02	2/46	BROWNE_HCMV_INFECTION_2HR_DN
12	1e-02	2/47	SIG_INSULIN_RECEPTOR_PATHWAY_IN_CARDIAC_MYOCYTES
13	1e-02	3/146	REACTOME_G_ALPHA

Overexpression Spots

Spot Summary: O

metagenes = 10
genes = 156

<r> metagenes = 0.97
<r> genes = 0.13
beta: r2= 0.95 / log p= -Inf

samples with spot = 4 (1.8 %)
mBL : 1 (2.3 %)
intermediate : 2 (4.2 %)
non-mBL : 1 (0.8 %)

Spot Genelist

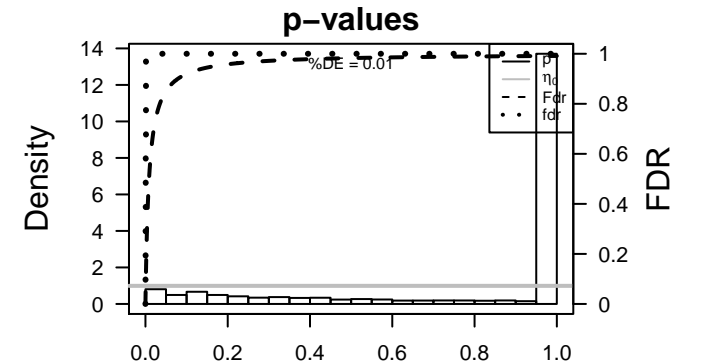
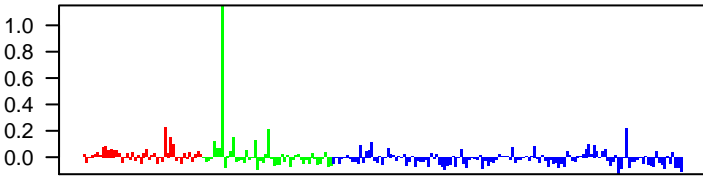
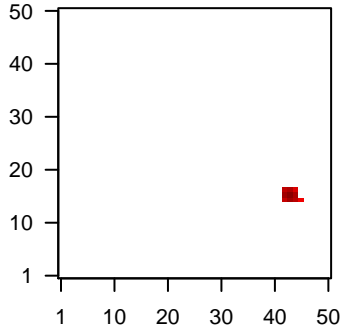
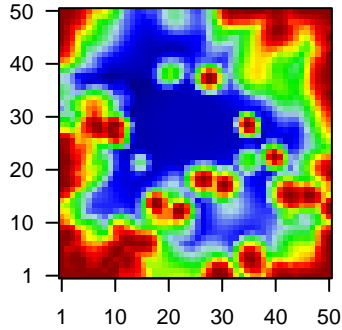
Rank	ID	max e	r	min e	Description
1	204865_at	2.65	-0.72	0.5	CA3 carbonic anhydrase 3 [Source:HGNC Symbol;Acc:HGNC:137
2	205363_at	2.4	-0.69	0.39	BBOX1 gamma-butyrobetaine hydroxylase 1 [Source:HGNC Symbol;
3	206045_s_at	2.39	-0.93	0.31	NOL4 nucleolar protein 4 [Source:HGNC Symbol;Acc:HGNC:7870]
4	209840_s_at	2.32	-0.65	0.4	LRRN3 leucine rich repeat neuronal 3 [Source:HGNC Symbol;Acc:HK
5	205951_at	2.23	-0.46	0.45	MYH1 myosin heavy chain 1 [Source:HGNC Symbol;Acc:HGNC:756
6	219692_at	2.17	-1.61	0.12	KREMEN3 single containing transmembrane protein 2 [Source:HGNC S
7	209841_s_at	2.16	-0.89	0.39	LRRN3 leucine rich repeat neuronal 3 [Source:HGNC Symbol;Acc:HK
8	206502_s_at	2.15	-0.97	0.17	INSM1 INSM transcriptional repressor 1 [Source:HGNC Symbol;Acc:
9	205529_s_at	2.09	-0.74	0.17	RUNX1TRUNX1 translocation partner 1 [Source:HGNC Symbol;Acc:H
10	205347_s_at	1.97	-1.15	0.18	TMSB15A thymosin beta 15a [Source:HGNC Symbol;Acc:HGNC:30744]
11	209757_s_at	1.94	-0.99	0.24	MYCN MYCN proto-oncogene, bHLH transcription factor [Source:HK
12	207445_s_at	1.92	-0.85	0.35	CCR9 C-C motif chemokine receptor 9 [Source:HGNC Symbol;Acc:
13	206318_at	1.84	-0.63	0.61	EPPIN epididymal peptidase inhibitor [Source:HGNC Symbol;Acc:HK
14	213894_at	1.84	-0.59	0.4	THSD7A thrombospondin type 1 domain containing 7A [Source:HGNC
15	214920_at	1.79	-0.73	0.43	THSD7A thrombospondin type 1 domain containing 7A [Source:HGNC
16	206404_at	1.78	-0.73	0.38	FGF9 fibroblast growth factor 9 [Source:HGNC Symbol;Acc:HGNC::
17	203296_s_at	1.69	-0.67	0.37	ATP1A2 ATPase Na+/K+ transporting subunit alpha 2 [Source:HGNC :
18	222101_s_at	1.69	-0.65	0.31	DCHS1 dachsous cadherin-related 1 [Source:HGNC Symbol;Acc:HG
19	204948_s_at	1.66	-0.82	0.2	FST follistatin [Source:HGNC Symbol;Acc:HGNC:3971]
20	211585_at	1.65	-0.71	0.55	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	7e-10	59 / 3168	LympL HOPP_Repressed
2	9e-07	83 / 6368	Color LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
3	2e-06	37 / 1894	LympL HOPP_Poised_promoter
4	8e-06	16 / 492	Color LaPointe_mucosa-position_kmeans_C_cecum_colon_ascending_colon_tra
5	4e-05	18 / 697	GSE# BENPORATH_SUZ12_TARGETS
6	6e-05	7 / 110	GSE# KONDO_PROSTATE_CANCER_WITH_H3K27ME3
7	8e-05	5 / 50	GSE# POMEROY_MEDULLOBLASTOMA_DESMOPLASIC_VS_CLASSIC_DN
8	2e-04	11 / 329	MF RNA polymerase II proximal promoter sequence-specific DNA binding
9	2e-04	4 / 32	Gliom WIRTH_PN_subtype
10	2e-04	16 / 657	GSE# SMID_BREAST_CANCER_BASAL_DN
11	2e-04	8 / 184	Chr Chr 18
12	3e-04	17 / 730	GSE# BENPORATH_ES_WITH_H3K27ME3
13	3e-04	20 / 958	Color LaPointe_mucosa-position_kmeans_D_transverse_colon_UP_
14	3e-04	7 / 146	GSE# LEE_NEURAL_CREST_STEM_CELL_UP
15	4e-04	3 / 16	Refer WIRTH_Hippocampus
16	5e-04	22 / 1148	TF HEBENSTREIT_low expression TF
17	6e-04	10 / 318	Color Lembcke_TCGA_meth_kmeans_E_CIMP.H_UP_
18	7e-04	3 / 20	BP striated muscle contraction
19	7e-04	5 / 80	BP lung development
20	1e-03	9 / 284	GSE# MIKKELSEN_MCV6_HCP_WITH_H3K27ME3
21	1e-03	8 / 242	GSE# CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_2
22	2e-03	3 / 26	GSE# DING_LUNG_CANCER_MUTATED_SIGNIFICANTLY
23	2e-03	2 / 7	GSE# PHESSSE_TARGETS_OF_APC_AND_MBD2_DN
24	2e-03	19 / 1029	GSE# DODD_NASOPHARYNGEAL_CARCINOMA_UP
25	2e-03	4 / 59	GSE# DAVICIONI_PAX_FOXO1_SIGNATURE_IN_ARMS_UP
26	2e-03	4 / 62	BP negative regulation of protein phosphorylation
27	2e-03	4 / 62	Lifest DUMEAUX_Smoking enriched genes
28	3e-03	4 / 64	GSE# DAVICIONI_RHABDOMYOSARCOMA_PAX_FOXO1_FUSION_UP
29	3e-03	3 / 31	GSE# BONOME_OVARIAN_CANCER_POOR_SURVIVAL_UP
30	3e-03	7 / 209	Refer Chaussabel_2_5_Immune related molecules
31	3e-03	2 / 9	GSE# MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_16
32	3e-03	2 / 9	GSE# MCCABE_HOXC6_TARGETS_UP
33	3e-03	12 / 532	Color LaPointe_mucosa-position_kmeans_B_ascending_colon_transverse_colon
34	3e-03	8 / 271	GSE# VECCHI_GASTRIC_CANCER_EARLY_DN
35	3e-03	4 / 67	GSE# KONDO_PROSTATE_CANCER_HCP_WITH_H3K27ME3
36	3e-03	3 / 33	MF NADP binding
37	3e-03	3 / 33	GSE# YANG_BREAST_CANCER_ESR1_UP
38	3e-03	18 / 1001	Color LaPointe_mucosa-position_kmeans_H_cecum_colon_ascending_colon_UP
39	3e-03	2 / 10	BP exogenous drug catabolic process
40	3e-03	2 / 10	BP regulation of DNA methylation

Overview Map

Spot



Overexpression Spots

Spot Summary: P

metagenes = 2
genes = 87

<r> metagenes = 0.99
<r> genes = 0.34
beta: r2= 3.54 / log p= -Inf

samples with spot = 32 (14.5 %)
mBL : 10 (22.7 %)
intermediate : 9 (18.8 %)
non-mBL : 13 (10.1 %)

Spot Genelist

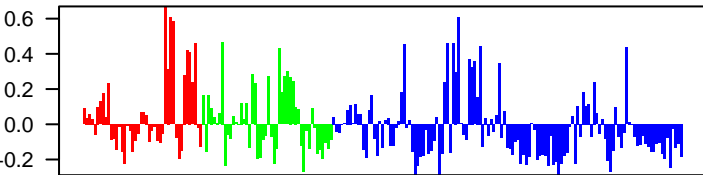
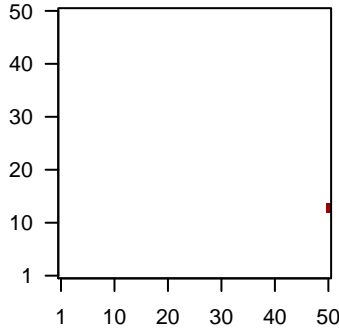
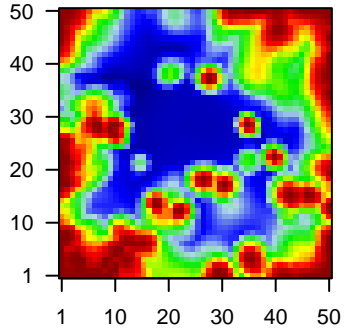
Rank	ID	max e	r	min e	Description Symbol
1	213350_at	2.55	-0.86	0.8	
2	214469_at	1.7	-0.75	0.44	HIST1H2A histone cluster 1 H2A family member e [Source:HGNC Symbol]
3	202648_at	1.66	-0.64	0.71	
4	214522_x_at	1.64	-1.21	0.49	HIST1H2A histone cluster 1 H2A family member d [Source:HGNC Symbol]
5	215779_s_at	1.62	-0.92	0.38	HIST1H2B histone cluster 1 H2B family member g [Source:HGNC Symbol]
6	216153_x_at	1.57	-0.93	0.54	
7	222027_at	1.57	-1.19	0.7	
8	219138_at	1.52	-0.72	0.76	
9	214123_s_at	1.49	-0.59	0.61	NOP14 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:10000]
10	216563_at	1.43	-0.82	0.61	
11	206035_at	1.43	-0.73	0.66	
12	200908_s_at	1.41	-0.7	0.78	
13	217619_x_at	1.34	-1.37	0.38	
14	214056_at	1.34	-1.23	0.51	
15	214149_s_at	1.32	-1.11	0.65	
16	214395_x_at	1.31	-0.82	0.76	
17	213642_at	1.28	-0.98	0.84	
18	213813_x_at	1.27	-0.74	0.74	
19	214057_at	1.26	-0.82	0.63	
20	213087_s_at	1.26	-0.52	0.68	

Geneset Overrepresentation

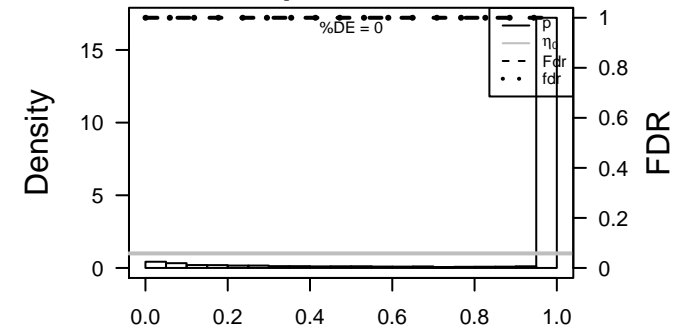
Rank	p-value	#in/all	Geneset
1	3e-17	11 / 70	CC nucleosome
2	2e-13	8 / 42	GSE/ REACTOME_RNA_POL_I_PROMOTER_OPENING
3	3e-12	9 / 92	GSE/ KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS
4	4e-12	8 / 60	GSE/ REACTOME_AMYLOIDS
5	5e-12	8 / 62	GSE/ REACTOME_RNA_POL_I_TRANSCRIPTION
6	5e-12	8 / 62	GSE/ REACTOME_MEIOTIC_RECOMBINATION
7	6e-12	7 / 36	GSE/ REACTOME_PACKAGING_OF_TELOMERE_ENDS
8	4e-11	7 / 46	GSE/ REACTOME_DEPOSITION_OF_NEW_CENPA_CONTAINING_NUCLEOSOMES
9	4e-11	12 / 324	CC chromosome
10	9e-11	8 / 88	GSE/ REACTOME_MEIOSIS
11	1e-10	8 / 91	GSE/ REACTOME_RNA_POL_I_RNA_POL_III_AND_MITOCHONDRIAL_TRANSCRIPTION
12	2e-10	7 / 57	GSE/ REACTOME_MEIOTIC_SYNAPSIS
13	3e-10	7 / 61	GSE/ REACTOME_TELOMERE_MAINTENANCE
14	2e-09	7 / 78	BP nucleosome assembly
15	9e-09	7 / 98	GSE/ REACTOME_CHROMOSOME_MAINTENANCE
16	1e-08	8 / 164	GSE/ REACTOME_TRANSCRIPTION
17	3e-08	7 / 118	GSE/ ACEVEDO_LIVER_CANCER_WITH_H3K27ME3_DN
18	1e-07	12 / 645	Refer PROTEINATLAS_bone marrow
19	4e-07	11 / 593	Refer PROTEINATLAS_lateral ventricle
20	1e-06	11 / 669	Chr Chr 6
21	1e-06	9 / 408	MF protein heterodimerization activity
22	2e-06	4 / 31	CC nuclear nucleosome
23	2e-06	5 / 76	GSE/ ACEVEDO_LIVER_CANCER_WITH_H3K9ME3_DN
24	3e-06	4 / 36	BP chromatin silencing
25	4e-06	13 / 1076	Refer PROTEINATLAS_stomach
26	8e-06	11 / 809	Refer PROTEINATLAS_fallopian tube
27	1e-05	9 / 526	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
28	2e-05	10 / 708	Refer PROTEINATLAS_thyroid gland
29	2e-05	12 / 1072	Refer PROTEINATLAS_duodenum
30	3e-05	3 / 22	BP telomere organization
31	4e-05	7 / 347	GSE/ REACTOME_CELL_CYCLE
32	5e-05	3 / 26	BP DNA replication-dependent nucleosome assembly
33	5e-05	9 / 642	Refer PROTEINATLAS_lung
34	6e-05	3 / 27	BP chromatin silencing at rDNA
35	7e-05	11 / 1022	Refer PROTEINATLAS_placenta
36	1e-04	5 / 171	CC nuclear chromatin
37	1e-04	3 / 34	miRN hsa-miR-760
38	1e-04	11 / 1081	Refer PROTEINATLAS_testis
39	1e-04	3 / 37	BP negative regulation of gene expression, epigenetic
40	2e-04	10 / 923	Refer PROTEINATLAS_cerebral cortex

Overview Map

Spot



p-values



Overexpression Spots

Spot Summary: Q

metagenes = 8
genes = 123

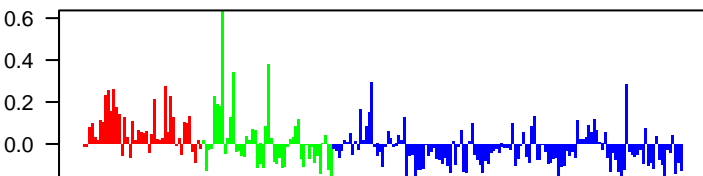
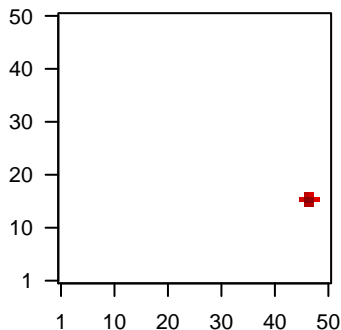
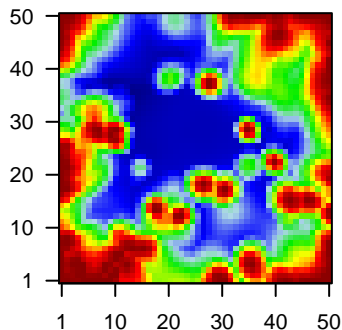
<r> metagenes = 0.97
<r> genes = 0.19
beta: r2= 1.55 / log p= -Inf

samples with spot = 12 (5.4 %)

mBL : 6 (13.6 %)
intermediate : 4 (8.3 %)
non-mBL : 2 (1.6 %)

Overview Map

Spot

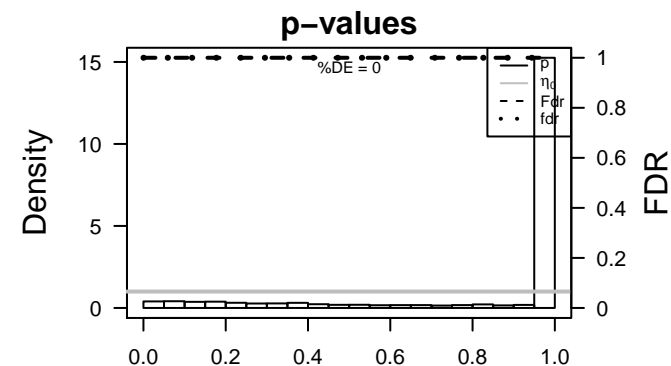


Spot Genelist

Rank	ID	max e	r	min e	Description
1	208014_x_at	1.81	-0.93	0.42	
2	215607_x_at	1.8	-1.14	0.58	
3	206213_at	1.57	-0.82	0.22	WNT10B/Wnt family member 10B [Source:HGNC Symbol;Acc:HGNC:1
4	207608_x_at	1.54	-0.78	0.53	
5	216054_x_at	1.46	-0.61	0.44	MYL4 myosin light chain 4 [Source:HGNC Symbol;Acc:HGNC:7585
6	209057_x_at	1.37	-1.1	0.64	CDC5L cell division cycle 5 like [Source:HGNC Symbol;Acc:HGNC:1
7	216981_x_at	1.31	-0.98	0.32	SPN sialophorin [Source:HGNC Symbol;Acc:HGNC:11249]
8	213066_at	1.22	-0.83	0.37	RUSC2 RUN and SH3 domain containing 2 [Source:HGNC Symbol;A
9	220944_at	1.22	-0.7	0.52	PGLYRP4/peptidoglycan recognition protein 4 [Source:HGNC Symbol;A
10	204776_at	1.22	-1.32	0.27	THBS4 thrombospondin 4 [Source:HGNC Symbol;Acc:HGNC:11788]
11	217473_x_at	1.21	-1.05	0.61	SLC11A1/solute carrier family 11 member 1 [Source:HGNC Symbol;Acc
12	43427_at	1.15	-0.63	0.4	ACACB acetyl-CoA carboxylase beta [Source:HGNC Symbol;Acc:HG
13	215582_x_at	1.12	-0.91	0.66	
14	211465_x_at	1.11	-0.53	0.56	FUT6 fucosyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:4017
15	215133_s_at	1.08	-0.67	0.39	
16	217117_x_at	1.07	-0.91	0.53	
17	217261_at	1.07	-0.7	0.42	testis-specific transcript, Y-linked 2 (non-protein coding) [Sc
18	208242_at	1.06	-0.58	0.49	RAX retina and anterior neural fold homeobox [Source:HGNC Sym
19	215491_at	1.06	-0.65	0.37	MYCL MYCL proto-oncogene, bHLH transcription factor [Source:HC
20	217580_x_at	1.03	-1.15	0.64	ATL2 atlastin GTPase 2 [Source:HGNC Symbol;Acc:HGNC:24047]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-06	70 / 6368	Colon LaPointe_mucosa-position_kmeans_F_cecum colon_transverse colon_UP
2	6e-05	13 / 483	Colon Lembcke_TCGA-expr_kmeans_H_CIMP_H_UP_Cluster3_DN
3	3e-04	9 / 290	Colon Lembcke_TCGA_meth_kmeans_O_CIMP_H_DN
4	8e-04	38 / 3168	Lymph HOPP_Repressed
5	8e-04	3 / 25	GSE/ WANG_METASTASIS_OF_BREAST_CANCER_ESR1_DN
6	9e-04	4 / 58	GSE/ JOSEPH_RESPONSE_TO_SODIUM_BUTYRATE_DN
7	1e-03	5 / 105	MF Ras guanyl-nucleotide exchange factor activity
8	1e-03	26 / 1894	Lymph HOPP_Poised_promoter
9	1e-03	4 / 63	GSE/ REACTOME_NCAM_SIGNALING_FOR_NEURITE_OUT_GROWTH
10	2e-03	3 / 36	BP cardiac conduction
11	3e-03	4 / 78	Gliom Hopp_Sturm_GBM_Epi3_A1_Mesenchymal_UP
12	3e-03	13 / 730	GSE/ BENPORATH_ES_WITH_H3K27ME3
13	3e-03	3 / 39	GSE/ REACTOME_NCAM1_INTERACTIONS
14	4e-03	10 / 492	Color LaPointe_mucosa-position_kmeans_C_cecum colon_ascending colon_tra
15	4e-03	2 / 13	BP protein localization to organelle
16	4e-03	4 / 88	GSE/ KEGG_MELANOGENESIS
17	4e-03	7 / 273	GSE/ SHEDDEN_LUNG_CANCER_GOOD_SURVIVAL_A12
18	5e-03	2 / 14	BP ceramide biosynthetic process
19	5e-03	2 / 14	Canc LIU_PROSTATE_CANCER_DN
20	5e-03	2 / 14	Canc LIU_PROSTATE_CANCER_DN
21	5e-03	8 / 358	GSE/ MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP
22	5e-03	2 / 15	BP ceramide metabolic process
23	5e-03	2 / 15	CC node of Ranvier
24	6e-03	3 / 50	GSE/ LUI_THYROID_CANCER_CLUSTER_1
25	6e-03	2 / 16	BP regulation of sodium ion transport
26	8e-03	5 / 168	CC postsynaptic density
27	9e-03	2 / 19	BP cartilage condensation
28	1e-02	2 / 20	BP adult behavior
29	1e-02	5 / 174	CC postsynaptic membrane
30	1e-02	2 / 21	GSE/ REACTOME_INTERACTION_BETWEEN_L1_AND_ANKYRINS
31	1e-02	2 / 21	GSE/ NAKAMURA_CANCER_MICROENVIRONMENT_UP
32	1e-02	9 / 492	Chr Chr 9
33	1e-02	2 / 22	BP sensory perception of taste
34	1e-02	9 / 501	GSE/ MARTENS_TRETINOIN_RESPONSE_UP
35	1e-02	2 / 23	BP membrane depolarization
36	1e-02	2 / 23	GSE/ PID_RXR_VDR_PATHWAY
37	1e-02	4 / 121	GSE/ PANGAS_TUMOR_SUPPRESSION_BY_SMAD1_AND_SMAD5_DN
38	1e-02	4 / 122	GSE/ MIKKELSEN_MEF_ICP_WITH_H3K27ME3
39	1e-02	4 / 123	GSE/ GAL_LEUKEMIC_STEM_CELL_UP
40	1e-02	8 / 423	Gliom Down_a



Overexpression Spots

Spot Summary: R

metagenes = 7
genes = 149

<r> metagenes = 0.97
<r> genes = 0.23
beta: r2= 6.61 / log p= -Inf

samples with spot = 50 (22.6 %)
mBL : 23 (52.3 %)
intermediate : 14 (29.2 %)
non-mBL : 13 (10.1 %)

Spot Genelist

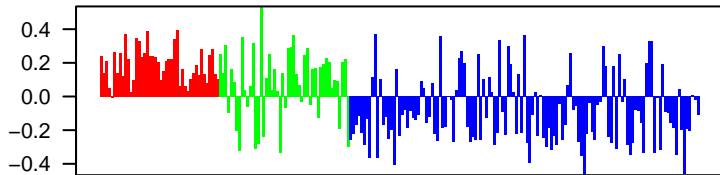
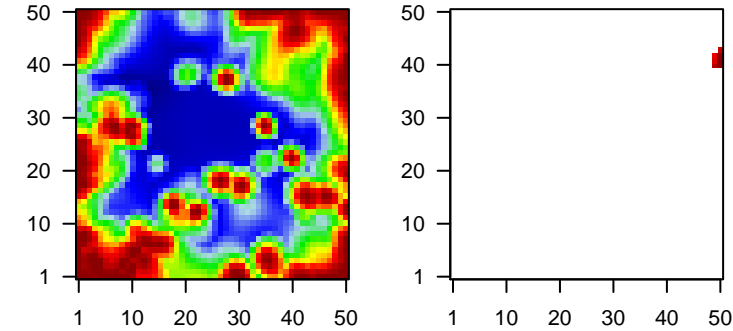
Rank	ID	max e	r	min e	Description
					Symbol
1	220448_at	2.35	-0.95	0.57	KCNK12 potassium two pore domain channel subfamily K member 12
2	203865_s_at	2.33	-1.02	0.39	ADARB1 adenosine deaminase, RNA specific B1 [Source:HGNC Symt
3	221879_at	2.18	-0.84	0.32	
4	205902_at	2.03	-0.94	0.52	KCNN3 potassium calcium-activated channel subfamily N member 3
5	220432_s_at	1.97	-0.86	0.55	CYP39A cytochrome P450 family 39 subfamily A member 1 [Source:Hi
6	210461_s_at	1.78	-0.98	0.53	ABLIM1 actin binding LIM protein 1 [Source:HGNC Symbol;Acc:HGNC
7	218862_at	1.71	-1.7	0.72	ASB13 ankyrin repeat and SOCS box containing 13 [Source:HGNC S
8	218922_s_at	1.62	-1.16	0.63	CERS4 ceramide synthase 4 [Source:HGNC Symbol;Acc:HGNC:237
9	203769_s_at	1.62	-0.95	0.56	STS steroid sulfatase [Source:HGNC Symbol;Acc:HGNC:11425]
10	219753_at	1.54	-1.48	0.57	STAG3 stromal antigen 3 [Source:HGNC Symbol;Acc:HGNC:11356]
11	219304_s_at	1.54	-1.46	0.44	PDGFD platelet derived growth factor D [Source:HGNC Symbol;Acc:HGNC
12	213122_at	1.5	-1.06	0.37	TSPYL5 TSPY like 5 [Source:HGNC Symbol;Acc:HGNC:29367]
13	208353_x_at	1.49	-0.86	0.43	ANK1 ankyrin 1 [Source:HGNC Symbol;Acc:HGNC:492]
14	214806_at	1.47	-0.92	0.54	BICD1 BICD cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:10
15	213906_at	1.47	-1.54	0.85	MYBL1 MYB proto-oncogene like 1 [Source:HGNC Symbol;Acc:HGNC
16	205425_at	1.45	-1.2	0.33	HIP1 huntingtin interacting protein 1 [Source:HGNC Symbol;Acc:Hi
17	212719_at	1.43	-1.02	0.48	PHLPP1 PH domain and leucine rich repeat protein phosphatase 1 [Sc
18	205187_at	1.42	-0.95	0.54	SMAD5 SMAD family member 5 [Source:HGNC Symbol;Acc:HGNC:6
19	212599_at	1.41	-1.6	0.53	AUTS2 AUTS2, activator of transcription and developmental regulator
20	208107_s_at	1.4	-0.84	0.42	REXOS RNA exonuclease 5 [Source:HGNC Symbol;Acc:HGNC:2466

Geneset Overrepresentation

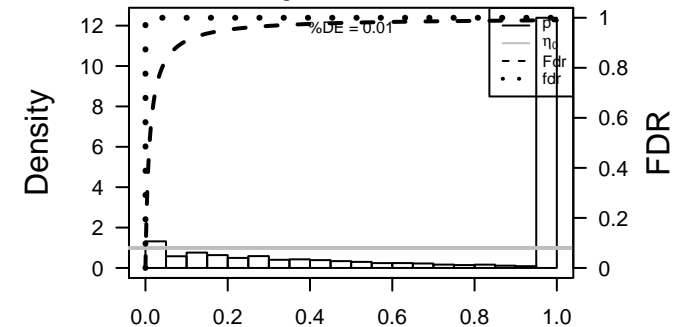
Rank	p-value	#in/all	Geneset
1	9e-18	22 / 195	GSE/ HOLLMANN_APOPTOSIS_VIA_CD40_UP
2	4e-16	23 / 263	LympI SPANG_CD40 6hrs UP
3	6e-14	93 / 5404	LympI HOPP_Strong_enhancer
4	6e-14	37 / 955	LympI SPANG_BCR UP
5	2e-11	16 / 186	GSE/ PENG_RAPAMYCIN_RESPONSE_UP
6	3e-10	91 / 5908	LympI HOPP_Active_promoter
7	4e-09	5 / 8	LympI MASCQUE_GCB UP
8	5e-09	6 / 16	GSE/ ZHAN_LATE_DIFFERENTIATION_GENES_DN
9	8e-09	6 / 17	LympI Aukema_BCL2_UP_BCL6 DN
10	8e-09	86 / 5682	LympI HOPP_Weak_promoter
11	2e-08	10 / 96	LympI SPANG_LPS 6hrs UP
12	5e-08	11 / 133	GSE/ PENG_LEUCINE_DEPRIVATION_UP
13	2e-07	13 / 219	Refer WIRTH_GC B-cells
14	8e-07	9 / 107	GSE/ SMIRNOV_RESPONSE_TO_IR_6HR_DN
15	2e-06	7 / 61	GSE/ BASSO_CD40_SIGNALING_DN
16	3e-06	3 / 4	LympI WRIGHT_custom_GCB-DLBCL UP
17	8e-06	7 / 76	GSE/ ZHANG_RESPONSE_TO_IKK_INHIBITOR_AND_TNF_DN
18	8e-06	3 / 5	LympI Shaknovich_ABC_hyper_meth
19	1e-05	4 / 15	LympI DAVE_BL Inter
20	1e-05	65 / 4357	LympI HOPP_Weak_txn
21	1e-05	14 / 376	GSE/ GARY_CD5_TARGETS_UP
22	1e-05	15 / 429	GSE/ SMID_BREAST_CANCER_NORMAL_LIKE_UP
23	2e-05	22 / 848	Color LaPointe_mucosa-position_kmeans_O_transverse_colon_UP
24	2e-05	3 / 6	LympI Care_GCB UP
25	2e-05	6 / 59	GSE/ HUTTMANN_B CLL_POOR_SURVIVAL_DN
26	2e-05	8 / 121	GSE/ PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_DN
27	2e-05	8 / 122	GSE/ GAVIN_FOXP3_TARGETS_CLUSTER_P3
28	2e-05	35 / 1814	LympI HOPP_Repetitive
29	4e-05	13 / 361	BP intracellular signal transduction
30	4e-05	5 / 41	GSE/ BIOCARTE_TCR_PATHWAY
31	5e-05	5 / 42	Refer Chaussabel_1,3_B-cells
32	5e-05	13 / 368	GSE/ ZHENG_BOUND_BY_FOXP3
33	5e-05	62 / 4261	LympI HOPP_Txn_transition
34	6e-05	65 / 4559	LympI HOPP_Weak_enhancer
35	7e-05	23 / 1001	Color LaPointe_mucosa-position_kmeans_H_ascending_colon_UP
36	8e-05	16 / 560	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
37	1e-04	52 / 3451	TF ICGC_Atf2_targets
38	2e-04	29 / 1508	TF ICGC_Mef2_targets
39	2e-04	5 / 56	miRN hsa-miR-193b
40	2e-04	5 / 56	GSE/ KLEIN_PRIMARY_EFFUSION_LYMPHOMA_DN

Overview Map

Spot



p-values



Overexpression Spots

Spot Summary: S

metagenes = 10
genes = 215

<r> metagenes = 0.98
<r> genes = 0.26
beta: r2= 4.44 / log p= -Inf

samples with spot = 12 (5.4 %)
intermediate : 3 (6.2 %)
non-mBL : 9 (7 %)

Spot Genelist

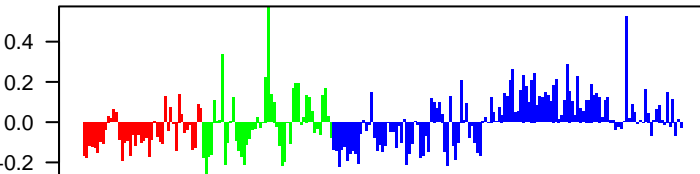
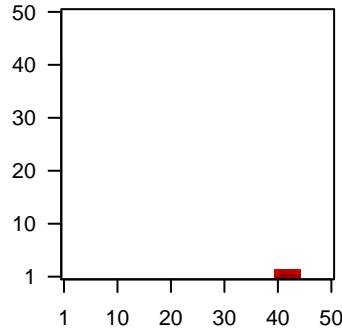
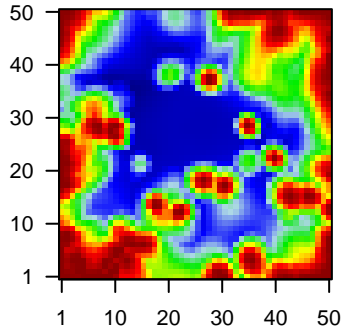
Rank	ID	max e	r	min e	Description
1	205033_s_at	2.2	-0.66	0.46	DEFA1 defensin alpha 1 [Source:HGNC Symbol;Acc:HGNC:2761]
2	207337_at	1.83	-1.04	0.49	CTAG2 cancer/testis antigen 2 [Source:HGNC Symbol;Acc:HGNC:24
3	206012_at	1.77	-0.72	0.39	LEFTY2 left-right determination factor 2 [Source:HGNC Symbol;Acc:HGNC:24
4	218687_s_at	1.71	-0.55	0.55	MUC13 mucin 13, cell surface associated [Source:HGNC Symbol;Acc:HGNC:24
5	205334_at	1.65	-0.71	0.49	S100A1 S100 calcium binding protein A1 [Source:HGNC Symbol;Acc:HGNC:24
6	205409_at	1.51	-0.76	0.5	FOSL2 FOS like 2, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:24
7	217052_x_at	1.49	-0.92	0.43	
8	36829_at	1.48	-0.66	0.4	PER1 period circadian regulator 1 [Source:HGNC Symbol;Acc:HGNC:24
9	208868_s_at	1.41	-0.86	0.35	GABARAP2 GABA type A receptor associated protein like 2 [Source:HGNC Symbol;Acc:HGNC:24
10	218211_s_at	1.4	-0.63	0.49	MLPH melanophilin [Source:HGNC Symbol;Acc:HGNC:29643]
11	216873_s_at	1.37	-0.62	0.58	ATP8B2 ATPase phospholipid transporting 8B2 [Source:HGNC Symbol;Acc:HGNC:24
12	206130_s_at	1.37	-0.45	0.51	ASGR2 asialoglycoprotein receptor 2 [Source:HGNC Symbol;Acc:HGNC:24
13	211900_x_at	1.31	-0.62	0.51	CD6 CD6 molecule [Source:HGNC Symbol;Acc:HGNC:1691]
14	218881_s_at	1.28	-1.15	0.58	FOSL2 FOS like 2, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:24
15	211531_x_at	1.27	-0.96	0.33	PRB1 proline rich protein BstNI subfamily 1 [Source:HGNC Symbol;Acc:HGNC:24
16	212772_s_at	1.27	-0.57	0.39	ABCA2 ATP binding cassette subfamily A member 2 [Source:HGNC Symbol;Acc:HGNC:24
17	208090_s_at	1.26	-0.81	0.38	AIRE autoimmune regulator [Source:HGNC Symbol;Acc:HGNC:3661]
18	209008_x_at	1.25	-0.56	0.59	keratin 8 pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:3661]
19	209710_at	1.2	-0.71	0.51	GATA2 GATA binding protein 2 [Source:HGNC Symbol;Acc:HGNC:41]
20	209768_s_at	1.17	-1.14	0.57	

Geneset Overrepresentation

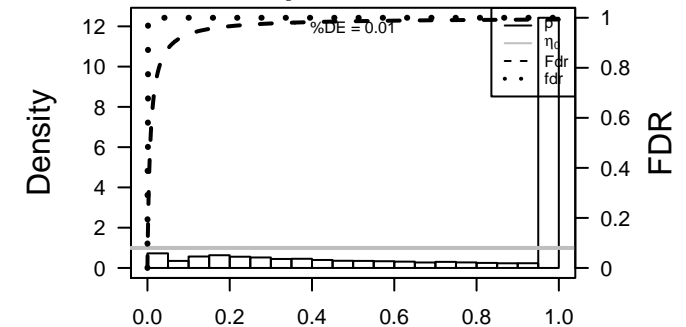
Rank	p-value	#in/all	Geneset
1	5e-11	24 / 358	GSE/ MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP
2	4e-07	116 / 6368	Colon LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
3	2e-06	69 / 3168	Lymp/ HOPP_Repressed
4	2e-05	7 / 65	BP excitatory postsynaptic potential
5	4e-05	52 / 2321	TF ICGC_Rad21_targets
6	3e-04	42 / 1894	Lymp/ HOPP_Poised_promoter
7	4e-04	6 / 72	GSE/ MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_UP
8	6e-04	7 / 109	CC dendritic spine
9	7e-04	4 / 31	GSE/ WEIGEL_OXIDATIVE_STRESS_RESPONSE
10	7e-04	3 / 14	BP positive regulation of blood coagulation
11	1e-03	4 / 34	CC cortical actin cytoskeleton
12	1e-03	4 / 34	BP regulation of synaptic plasticity
13	1e-03	27 / 1092	GSE/ YOSHIMURA_MAPK8_TARGETS_UP
14	1e-03	8 / 155	BP response to hypoxia
15	1e-03	9 / 195	BP chemical synaptic transmission
16	1e-03	3 / 16	Immu/ Angelova_immune-metagne-Th17
17	1e-03	3 / 16	GSE/ STARK_HYPPOCAMPUS_22Q11_DELETION_DN
18	1e-03	7 / 125	MF transcriptional activator activity, RNA polymerase II transcription regulatory
19	1e-03	36 / 1652	Gliom/ Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
20	1e-03	14 / 423	Gliom/ Down_a
21	1e-03	5 / 63	BP regulation of insulin secretion
22	2e-03	7 / 129	GSE/ ONDER_CDH1_TARGETS_1_UP
23	2e-03	9 / 212	GSE/ MEISSNER_NPC_HCP_WITH_H3K4ME2_AND_H3K27ME3
24	2e-03	6 / 101	CC endomembrane system
25	2e-03	3 / 20	BP positive regulation of blood pressure
26	2e-03	3 / 20	BP regulation of Wnt signaling pathway
27	2e-03	5 / 70	BP locomotory behavior
28	2e-03	15 / 501	GSE/ MARTENS_TRETINOIN_RESPONSE_UP
29	2e-03	13 / 402	GSE/ REACTOME_HEMOSTASIS
30	2e-03	3 / 21	BP receptor clustering
31	3e-03	5 / 72	CC cell body
32	3e-03	11 / 310	CC dendrite
33	3e-03	8 / 182	MF RNA polymerase II regulatory region sequence-specific DNA binding
34	3e-03	3 / 22	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_DN
35	3e-03	4 / 46	BP activation of MAPKK activity
36	3e-03	3 / 23	BP neuromuscular synaptic transmission
37	3e-03	4 / 47	BP cellular response to cAMP
38	3e-03	4 / 47	BP learning or memory
39	3e-03	4 / 47	CC postsynapse
40	3e-03	2 / 7	GSE/ MIKI_COEXPRESSED_WITH_CYP19A1

Overview Map

Spot



p-values



Overexpression Spots

Spot Summary: T

metagenes = 7
genes = 156

<r> metagenes = 0.98
<r> genes = 0.09
beta: r2= 0.28 / log p= -Inf

samples with spot = 1 (0.5 %)
intermediate : 1 (2.1 %)

Spot Genelist

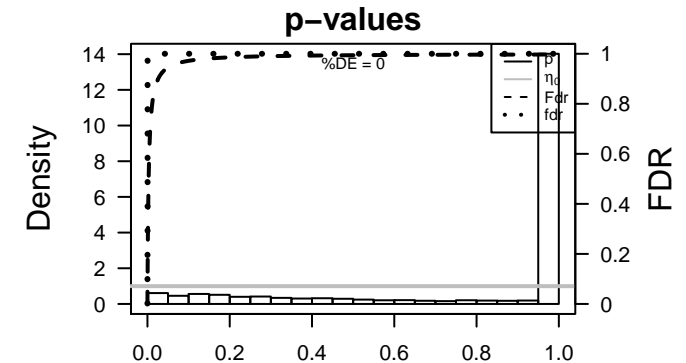
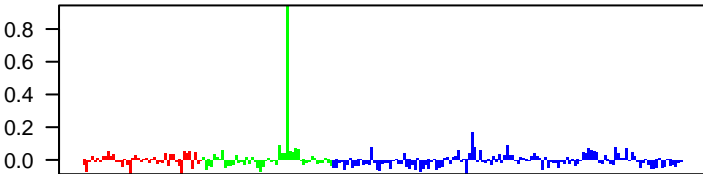
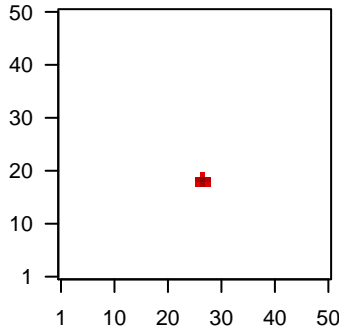
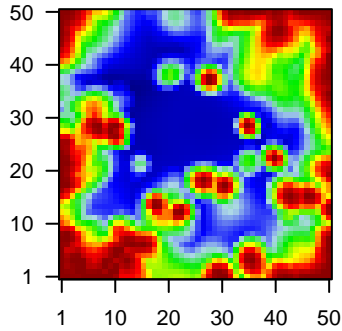
Rank	ID	max e	r	min e	Description
1	203215_s_at	2.09	-0.79	0.21	MYO6 myosin VI [Source:HGNC Symbol;Acc:HGNC:7605]
2	205177_at	2.03	-0.59	0.48	TNNI1 troponin I1, slow skeletal type [Source:HGNC Symbol;Acc:HC]
3	220179_at	1.97	-0.73	0.13	DPEP3 dipeptidase 3 [Source:HGNC Symbol;Acc:HGNC:23029]
4	216573_at	1.88	-0.75	0.18	
5	206569_at	1.6	-0.7	0.29	IL24 interleukin 24 [Source:HGNC Symbol;Acc:HGNC:11346]
6	210094_s_at	1.58	-0.67	0.2	PARD3 par-3 family cell polarity regulator [Source:HGNC Symbol;Acc:HGNC:11346]
7	211781_x_at	1.55	-0.85	0.26	
8	216293_at	1.47	-1.03	0.41	
9	214954_at	1.47	-0.61	0.2	SUSD5 sushi domain containing 5 [Source:HGNC Symbol;Acc:HGNC:11346]
10	218537_at	1.44	-1.31	0.22	HCFC1 host cell factor C1 regulator 1 [Source:HGNC Symbol;Acc:HGNC:11346]
11	207442_at	1.42	-0.88	0.39	CSF3 colony stimulating factor 3 [Source:HGNC Symbol;Acc:HGNC:11346]
12	210400_at	1.42	-0.63	0.46	GRIN2C glutamate ionotropic receptor NMDA type subunit 2C [Source:HGNC Symbol;Acc:HGNC:11346]
13	205426_s_at	1.39	-1.12	0.13	HIP1 huntingtin interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:11346]
14	211690_at	1.37	-0.72	0.37	
15	205522_at	1.36	-0.56	0.35	
16	217230_at	1.33	-0.82	0.21	
17	217270_s_at	1.32	-0.8	0.25	DYRK1B dual specificity tyrosine phosphorylation regulated kinase 1B
18	215085_x_at	1.32	-0.71	0.36	DLEC1 deleted in lung and esophageal cancer 1 [Source:HGNC Symbol;Acc:HGNC:11346]
19	221195_at	1.31	-0.74	0.37	RNFT1 ring finger protein, transmembrane 1 [Source:HGNC Symbol;Acc:HGNC:11346]
20	204046_at	1.31	-1.15	0.28	PLCB2 phospholipase C beta 2 [Source:HGNC Symbol;Acc:HGNC:11346]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	6e-05	5 / 46	BP retinoid metabolic process
2	1e-04	47 / 3168	LympL HOPP_Repressed
3	2e-04	77 / 6368	Colon LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
4	2e-04	32 / 1894	LympL HOPP_Poised_promoter
5	3e-04	3 / 15	MF extracellularly glutamate-gated ion channel activity
6	3e-04	3 / 15	MF ionotropic glutamate receptor activity
7	5e-04	3 / 18	BP ionotropic glutamate receptor signaling pathway
8	6e-04	5 / 75	CC apical part of cell
9	6e-04	3 / 19	MF steroid binding
10	9e-04	4 / 48	BP bone development
11	9e-04	5 / 83	Refer WIRTH_Muscle
12	1e-03	4 / 49	BP regulation of protein stability
13	1e-03	3 / 23	GSE/ LOPES_METHYLATED_IN_COLON_CANCER_UP
14	1e-03	2 / 6	GSE/ REACTOME_OPSINS
15	1e-03	3 / 25	BP ventricular cardiac muscle tissue morphogenesis
16	2e-03	3 / 26	BP glycosaminoglycan metabolic process
17	2e-03	3 / 28	GSE/ NEWMAN_ERCC6_TARGETS_DN
18	2e-03	2 / 8	GSE/ OXFORD_RALB_TARGETS_UP
19	3e-03	2 / 9	GSE/ OXFORD_RALA_AND_RALB_TARGETS_DN
20	3e-03	2 / 9	GSE/ MATZUK_PREOVULATORY_FOLLICLE
21	3e-03	3 / 34	BP regulation of synaptic plasticity
22	4e-03	6 / 164	GSE/ REACTOME_TRANSMISSION_ACROSS_CHEMICAL_SYNAPSES
23	4e-03	3 / 36	GSE/ REACTOME_CHONDROITIN_SULFATE_DERMATAN_SULFATE_METABOLISM
24	4e-03	5 / 117	GSE/ REACTOME_NEUROTRANSMITTER_RECEPTOR_BINDING_AND_DOW
25	4e-03	2 / 11	CC basal part of cell
26	4e-03	2 / 11	BP myofibril assembly
27	4e-03	2 / 11	BP suckling behavior
28	4e-03	4 / 73	GSE/ NIKOLSKY_BREAST_CANCER_16P13_AMPLICON
29	5e-03	7 / 230	GSE/ REACTOME_NEURONAL_SYSTEM
30	5e-03	3 / 38	GSE/ PID_ER_NONGENOMIC_PATHWAY
31	5e-03	8 / 291	MF actin binding
32	5e-03	2 / 12	CC Golgi-associated vesicle membrane
33	5e-03	2 / 12	BP positive regulation of myelination
34	5e-03	2 / 12	Immu Angelova_immune-metagene-NK56_dim
35	5e-03	3 / 39	MF SNARE binding
36	6e-03	11 / 501	GSE/ MARTENS_TRETINOIN_RESPONSE_UP
37	6e-03	2 / 13	MF fatty-acyl-CoA binding
38	6e-03	2 / 13	MF glutamate receptor activity
39	6e-03	3 / 41	Melar Tirosh_top50 correlated genes PC3
40	6e-03	7 / 240	GSE/ KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION

Overview Map

Spot



Overexpression Spots

Spot Summary: U

metagenes = 14
genes = 200

<r> metagenes = 0.98
<r> genes = 0.34
beta: r2= 14.1 / log p= -Inf

samples with spot = 41 (18.6 %)
intermediate : 4 (8.3 %)
non-mBL : 37 (28.7 %)

Spot Genelist

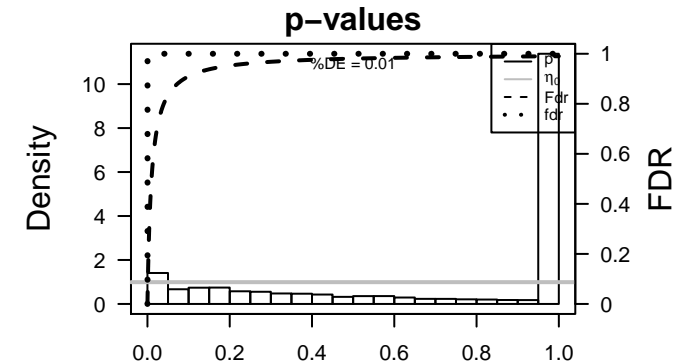
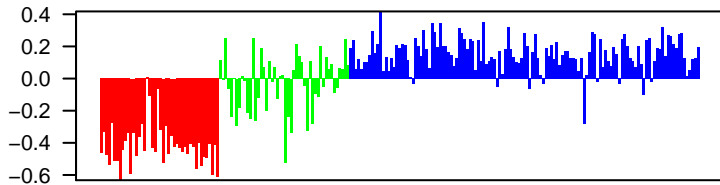
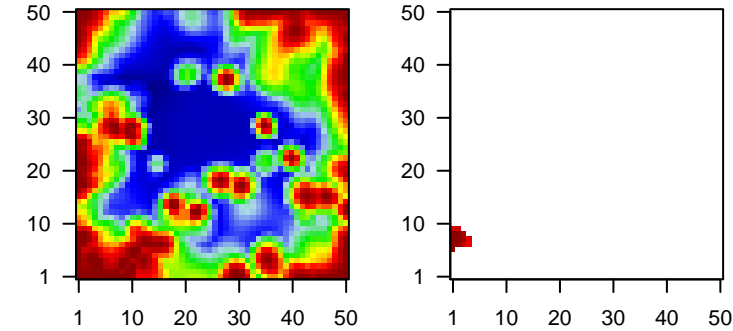
Rank	ID	max e	r	min e	Description
1	207900_at	2.93	-0.94	0.34	CCL17 C-C motif chemokine ligand 17 [Source:HGNC Symbol;Acc:...
2	207245_at	2.21	-1.2	0.46	UGT2B17UDP glucuronosyltransferase family 2 member B17 [Source:...
3	210517_s_at	1.9	-1.34	0.35	AKAP12 A-kinase anchoring protein 12 [Source:HGNC Symbol;Acc:H...
4	210437_at	1.88	-1.26	0.43	MAGEA9MAGE family member A9B [Source:HGNC Symbol;Acc:HGNC:...
5	203404_at	1.73	-1.41	0.48	ARMCX2armadillo repeat containing, X-linked 2 [Source:HGNC Symb...
6	203562_at	1.7	-1.4	0.56	FEZ1 fasciculation and elongation protein zeta 1 [Source:HGNC Sy...
7	203835_at	1.7	-1.1	0.46	LRRC32 leucine rich repeat containing 32 [Source:HGNC Symbol;Acc:...
8	217966_s_at	1.67	-0.98	0.59	FAM129Afamily with sequence similarity 129 member A [Source:HGNC...
9	205997_at	1.63	-1.62	0.64	ADAM28ADAM metallopeptidase domain 28 [Source:HGNC Symbol;A...
10	203642_s_at	1.63	-1.51	0.61	COBLL1 cordon-bleu WH2 repeat protein like 1 [Source:HGNC Symb...
11	203216_s_at	1.54	-0.93	0.44	MYO6 myosin VI [Source:HGNC Symbol;Acc:HGNC:7605]
12	213534_s_at	1.52	-1.17	0.58	PASK PAS domain containing serine/threonine kinase [Source:HGNC...
13	218706_s_at	1.52	-1.14	0.66	GRAMD2GRAM domain containing 2B [Source:HGNC Symbol;Acc:HGNC:...
14	205691_at	1.5	-1.1	0.51	SYNGR3synaptogyrin 3 [Source:HGNC Symbol;Acc:HGNC:11501]
15	212445_s_at	1.48	-1.16	0.51	NEDD4L neural precursor cell expressed, developmentally down-regul...
16	221218_s_at	1.46	-0.98	0.39	TPK1 thiamin pyrophosphokinase 1 [Source:HGNC Symbol;Acc:HGNC:...
17	203271_s_at	1.46	-1.46	0.65	UNC119 unc-119 lipid binding chaperone [Source:HGNC Symbol;Acc:...
18	205469_s_at	1.44	-1.36	0.5	IRF5 interferon regulatory factor 5 [Source:HGNC Symbol;Acc:HGNC:...
19	217504_at	1.43	-1.32	0.43	ABCA6 ATP binding cassette subfamily A member 6 [Source:HGNC S...
20	203641_s_at	1.41	-1.13	0.56	COBLL1 cordon-bleu WH2 repeat protein like 1 [Source:HGNC Symb...

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	7e-27	38 / 317	Cancer SPANG_BCL6-index2
2	3e-22	27 / 173	Lymph Victoria_Light zone signature
3	2e-21	27 / 186	Cancer SPANG_LPS-index2
4	6e-19	32 / 353	Lymph SPANG_CD40 6hrs DN
5	3e-16	17 / 85	Lymph Sha_DLBCL UP
6	1e-15	118 / 5404	Lymph HOPP_Strong_enhancer
7	1e-14	9 / 14	GSE/ HUMMEL_BURKITTs_LYMPHOMA_DN
8	2e-13	21 / 213	Lymph SPANG_IL21 DN
9	3e-13	15 / 90	GSE/ BASSO_CD40_SIGNALING_UP
10	9e-13	17 / 135	Lymph DAVE_BL-vs-DLBCL
11	3e-11	7 / 12	Lymph BENTINK_mBL DOWN
12	3e-10	28 / 560	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
13	4e-10	36 / 906	Lymph SPANG_BCR DN
14	4e-09	23 / 431	BP immune system process
15	7e-09	17 / 238	GSE/ RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_DN
16	9e-09	110 / 5908	Lymph HOPP_Active_promoter
17	3e-08	8 / 40	BP antigen processing and presentation
18	5e-08	14 / 178	GSE/ ZHANG_RESPONSE_TO_IKK_INHIBITOR_AND_TNF_UP
19	1e-07	18 / 321	GSE/ PHONG_TNF_RESPONSE_NOT_VIA_P38
20	1e-07	9 / 66	BP interferon-gamma-mediated signaling pathway
21	1e-07	18 / 327	GSE/ RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_UP
22	2e-07	8 / 50	GSE/ LINDSTEDT_DENDRITIC_CELL_MATURATION_B
23	2e-07	15 / 229	GSE/ QI_PLASMACYTOMA_UP
24	2e-07	8 / 51	GSE/ MORI_LARGE_PRE_BII_LYMPHOCYTE_DN
25	2e-07	6 / 22	MF peptide antigen binding
26	2e-07	6 / 22	Lymph DAVE_NFKB BL DN
27	3e-07	9 / 72	GSE/ MORI_MATURE_B_LYMPHOCYTE_UP
28	3e-07	6 / 23	CC integral component of luminal side of endoplasmic reticulum membrane
29	3e-07	4 / 6	Lymph DAVE_MHCCII BL DN
30	4e-07	8 / 55	GSE/ DIRMEIER_LMP1_RESPONSE_EARLY
31	4e-07	8 / 55	GSE/ DIRMEIER_LMP1_RESPONSE_LATE_UP
32	7e-07	6 / 26	BP antigen processing and presentation of peptide antigen via MHC class I
33	7e-07	19 / 404	GSE/ RUTELLA_RESPONSE_TO_HGF_UP
34	7e-07	13 / 190	HM HALLMARK_TNFA_SIGNALING_VIA_NFKB
35	8e-07	7 / 42	GSE/ VILIMAS_NOTCH1_TARGETS_UP
36	1e-06	23 / 589	Color Lemcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_DN
37	2e-06	25 / 694	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_UP
38	2e-06	101 / 5682	Lymph HOPP_Weak_promoter
39	4e-06	19 / 453	GSE/ FULCHER_INFLAMMATORY_RESPONSE_LECTIN_VS_LPS_UP
40	5e-06	15 / 297	Color Pentrack_CRC_TCGA_group.over_B_msi-h_UP

Overview Map

Spot



Overexpression Spots

Spot Summary: V

metagenes = 25
genes = 318

<r> metagenes = 0.93
<r> genes = 0.22
beta: r2= 7.82 / log p= -Inf

samples with spot = 53 (24 %)
intermediate : 5 (10.4 %)
non-mBL : 48 (37.2 %)

Spot Genelist

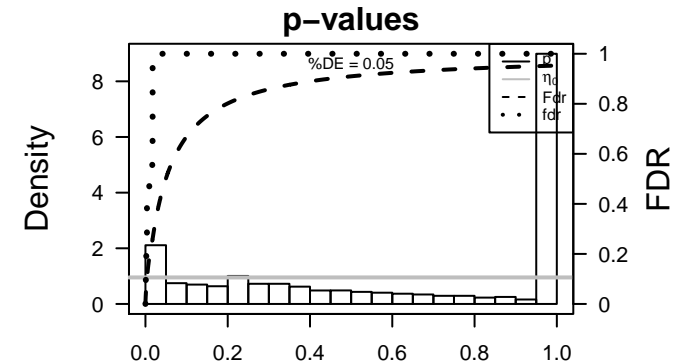
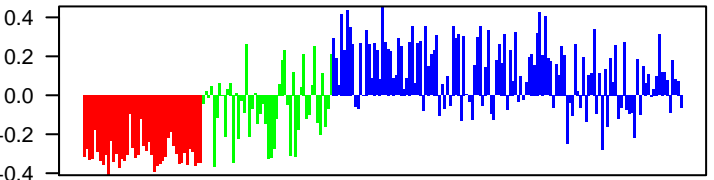
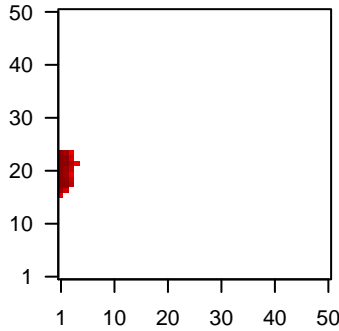
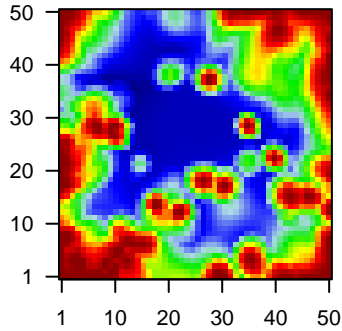
Rank	ID	max e	r	min e	Description
					Symbol
1	209810_at	3.13	-1.02	0.46	SFTPB surfactant protein B [Source:HGNC Symbol;Acc:HGNC:1080]
2	207861_at	2.76	-1.26	0.54	CCL22 C-C motif chemokine ligand 22 [Source:HGNC Symbol;Acc:HGNC:1080]
3	204753_s_at	2.57	-0.91	0.41	HLF HLF, PAR bZIP transcription factor [Source:HGNC Symbol;Acc:HGNC:1080]
4	201839_s_at	2.49	-1.02	0.28	EPCAM epithelial cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:1080]
5	210551_s_at	2.43	-0.93	0.43	ASMT acetylserotonin O-methyltransferase [Source:HGNC Symbol;Acc:HGNC:1080]
6	219360_s_at	2.4	-1.57	0.49	TRPM4 transient receptor potential cation channel subfamily M member 4 [Source:HGNC Symbol;Acc:HGNC:1080]
7	37004_at	2.39	-0.69	0.3	SFTPB surfactant protein B [Source:HGNC Symbol;Acc:HGNC:1080]
8	207534_at	2.39	-0.99	0.24	MAGEB1MAGE family member B1 [Source:HGNC Symbol;Acc:HGNC:1080]
9	219836_at	2.38	-1.24	0.57	ZBED2 zinc finger BED-type containing 2 [Source:HGNC Symbol;Acc:HGNC:1080]
10	218186_at	2.28	-1.29	0.35	RAB25 RAB25, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:1080]
11	217523_at	2.2	-1.4	0.69	CD44 CD44 molecule (Indian blood group) [Source:HGNC Symbol;Acc:HGNC:1080]
12	219255_x_at	2.16	-1.57	0.44	IL17RB interleukin 17 receptor B [Source:HGNC Symbol;Acc:HGNC:1080]
13	206478_at	2.15	-1.11	0.26	family with sequence similarity 30 member A [Source:HGNC Symbol;Acc:HGNC:1080]
14	221728_x_at	2.14	-1.53	0.12	X inactive specific transcript (non-protein coding) [Source:HGNC Symbol;Acc:HGNC:1080]
15	206218_at	2.12	-0.98	0.28	MAGEB2MAGE family member B2 [Source:HGNC Symbol;Acc:HGNC:1080]
16	204086_at	2.11	-1.29	0.44	PRAME preferentially expressed antigen in melanoma [Source:HGNC Symbol;Acc:HGNC:1080]
17	207392_x_at	2.06	-0.9	0.3	UGT2B15UDP glucuronosyltransferase family 2 member B15 [Source:HGNC Symbol;Acc:HGNC:1080]
18	200951_s_at	2.05	-1.43	0.71	CCND2 cyclin D2 [Source:HGNC Symbol;Acc:HGNC:1583]
19	206779_s_at	2.01	-1.2	0.37	ASMT acetylserotonin O-methyltransferase [Source:HGNC Symbol;Acc:HGNC:1080]
20	210313_at	2.01	-0.9	0.34	LILRA4 leukocyte immunoglobulin like receptor A4 [Source:HGNC Symbol;Acc:HGNC:1080]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-17	21 / 85	Lymph Aukema_BCL2_DN_BCL6_UP
2	1e-16	35 / 317	Cancer SPANG_BCL6-index2
3	5e-15	11 / 18	Lymph WRIGHT_ABC_UP
4	1e-12	8 / 10	Lymph Care_ABC_UP
5	1e-10	15 / 85	Lymph Sha_DLBCL_UP
6	5e-10	158 / 5404	Lymph HOPP_Strong_enhancer
7	2e-09	22 / 234	GSE/ HOLLMANN_APOPTOSIS_VIA_CD40_DN
8	2e-08	16 / 139	GSE/ BROCKE_APOPTOSIS_REVERSED_BY_IL6
9	6e-08	19 / 213	Lymph SPANG_IL21_DN
10	7e-08	17 / 173	Lymph Victora_Light zone signature
11	1e-07	9 / 42	Refer Chaussabel_1,3_B-cells
12	2e-07	19 / 227	GSE/ JAATINEN_HEMATOPOIETIC_STEM_CELL_UP
13	2e-07	4 / 4	Lymph WRIGHT_custom_ABC-DLBCL_UP
14	2e-07	24 / 353	Lymph SPANG_CD40_6hrs_DN
15	2e-07	12 / 90	GSE/ GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_DN
16	3e-07	20 / 262	GSE/ HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_DN
17	8e-07	16 / 182	Refer WIRTH_post_GC_B-cells
18	8e-07	10 / 67	Immu Angelova_immune-metogene-T-cells
19	1e-06	27 / 480	Cancer Lembcke_Colonc Inflammation
20	2e-06	9 / 56	GSE/ KLEIN_PRIMARY_EFFUSION_LYMPHOMA_DN
21	2e-06	25 / 429	GSE/ SMID_BREAST_CANCER_NORMAL_LIKE_UP
22	2e-06	5 / 12	BP leukocyte chemotaxis
23	3e-06	39 / 885	BP positive regulation of transcription from RNA polymerase II promoter
24	3e-06	57 / 1541	MF DNA binding
25	5e-06	9 / 64	GSE/ GEORGANTAS_HSC_MARKERS
26	6e-06	6 / 24	Melan Tirosh_B-cell specific genes-melanoma
27	6e-06	7 / 36	GSE/ REACTOME_PACKAGING_OF_TELOMERE_ENDS
28	6e-06	19 / 290	GSE/ O'DONNELL_TFRC_TARGETS_UP
29	7e-06	9 / 67	GSE/ O'DONNELL_TARGETS_OF_MYC_AND_TFRC_UP
30	1e-05	73 / 2254	TF ICGC_BatfPcr1_targets
31	1e-05	14 / 175	GSE/ OKUMURA_INFLAMMATORY_RESPONSE_LPS
32	1e-05	10 / 90	GSE/ BASSO_CD40_SIGNALING_UP
33	1e-05	17 / 251	GSE/ DAVICIONI_TARGETS_OF_PAX_FOXP1_FUSIONS_UP
34	2e-05	7 / 42	GSE/ REACTOME_RNA_POL_I_PROMOTER_OPENING
35	2e-05	57 / 1636	TF ICGC_Bcl11_targets
36	2e-05	16 / 234	GSE/ VERHAAK_AML_WITH_NPM1_MUTATED_DN
37	2e-05	20 / 346	GSE/ YAGI_AML_WITH_T_8_21_TRANSLOCATION
38	3e-05	27 / 564	GSE/ GOZGIT_ESR1_TARGETS_DN
39	3e-05	8 / 61	GSE/ REACTOME_TELOMERE_MAINTENANCE
40	3e-05	17 / 269	GSE/ HELLER_HDAC_TARGETS_DN

Overview Map

Spot



Ranking p-value #in/all Geneset description

BP Rank p-value #in/all Geneset description

Ranking p-value #in/all Geneset description

Ranking p-value #in/all Geneset description

CC Rank p-value #in/all Geneset description

Chr Rank p-value #in/all Geneset description

Ranking p-value #in/all Geneset description

Ranking p-value #in/all Geneset description

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

Glioma Rank p-value #in/all Geneset description

Ranking p-value #in/all Geneset description

Ranking p-value #in/all Geneset description

LM Rank p-value #in/all Geneset description

Immuno Rank p-value #in/all Geneset description

Ranking p-value #in/all Geneset description

Ranking p-value #in/all Geneset description

Lymphoma Rank p-value #in/all Geneset description

Melanoma Rank p-value #in/all Geneset description

Ranking p-value #in/all Geneset description

MF Rank p-value #in/all Geneset description

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

Pneumonia Rank p-value #in/all Geneset description

Ranking p-value #in/all Geneset description

Ranking p-value #in/all Geneset description

Telomeres Rank p-value #in/all Geneset description

TE Rank p-value #in/all Geneset description

Ranking p-value #in/all Geneset description

Ranking p-value #in/all Geneset description

Overexpression Spots

Spot Summary: W

metagenes = 25
genes = 503

<r> metagenes = 0.9

<r> genes = 0.32

beta: r2= 11.05 / log p= -Inf

samples with spot = 37 (16.7 %)

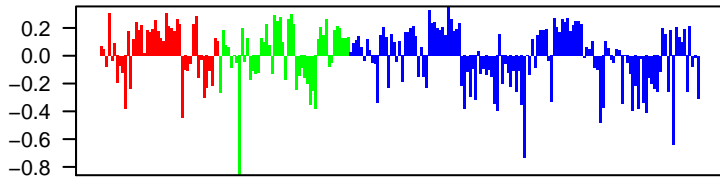
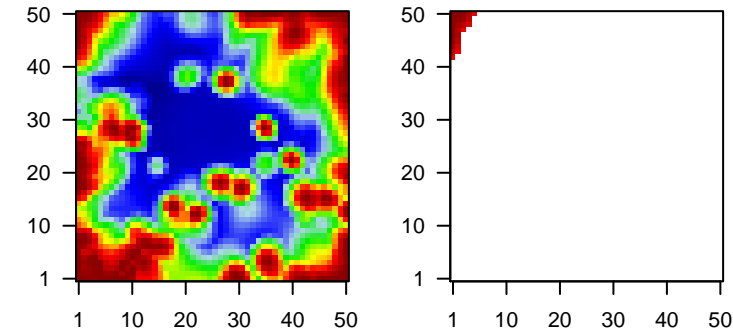
mBL : 10 (22.7 %)

intermediate : 10 (20.8 %)

non-mBL : 17 (13.2 %)

Overview Map

Spot

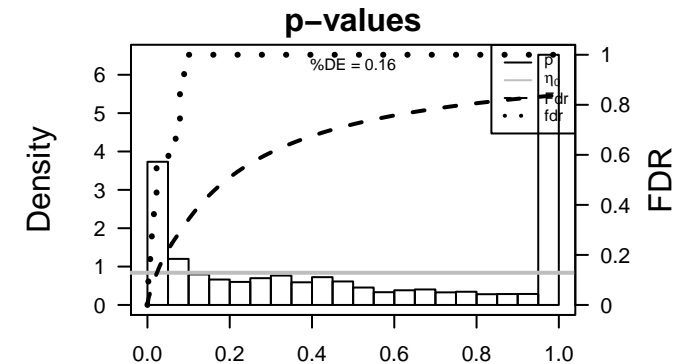


Spot Genelist

Rank	ID	max e	r	min e	Description
1	210360_s_at	1.7	-1.07	0.48	MTSS1 MTSS1, I-BAR domain containing [Source:HGNC Symbol;Acc:HGNC:1054]
2	212389_at	1.62	-1.05	0.64	SBF1 SET binding factor 1 [Source:HGNC Symbol;Acc:HGNC:1054]
3	207686_s_at	1.62	-1.44	0.61	CASP8 caspase 8 [Source:HGNC Symbol;Acc:HGNC:1509]
4	203293_s_at	1.51	-1.49	0.53	LMAN1 lectin, mannose binding 1 [Source:HGNC Symbol;Acc:HGNC:1054]
5	218811_at	1.49	-1.6	0.62	ORAI2 ORAI calcium release-activated calcium modulator 2 [Source:HGNC Symbol;Acc:HGNC:1054]
6	209664_x_at	1.48	-1.43	0.37	NFATC1 nuclear factor of activated T cells 1 [Source:HGNC Symbol;Acc:HGNC:1054]
7	211708_s_at	1.43	-1.2	0.59	SCD stearoyl-CoA desaturase [Source:HGNC Symbol;Acc:HGNC:1054]
8	203294_s_at	1.4	-1.25	0.58	LMAN1 lectin, mannose binding 1 [Source:HGNC Symbol;Acc:HGNC:1054]
9	214971_s_at	1.4	-1.95	0.77	ST6GAL6 ST6 beta-galactoside alpha-2,6-sialyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:1054]
10	200831_s_at	1.39	-1.42	0.38	SCD stearoyl-CoA desaturase [Source:HGNC Symbol;Acc:HGNC:1054]
11	211162_x_at	1.39	-1.05	0.56	SCD stearoyl-CoA desaturase [Source:HGNC Symbol;Acc:HGNC:1054]
12	215050_x_at	1.36	-1.7	0.49	MAPKAPK2 mitogen-activated protein kinase-activated protein kinase 2 [Source:HGNC Symbol;Acc:HGNC:1054]
13	213562_s_at	1.35	-1.44	0.57	SQLE squalene epoxidase [Source:HGNC Symbol;Acc:HGNC:1127]
14	212497_at	1.34	-0.93	0.55	MAPKAPK2 mitogen-activated protein kinase-activated protein kinase 2 [Source:HGNC Symbol;Acc:HGNC:1054]
15	203826_s_at	1.32	-0.98	0.22	PITPNM1 phosphatidylinositol transfer protein membrane associated 1 [Source:HGNC Symbol;Acc:HGNC:1054]
16	216986_s_at	1.32	-1.21	0.49	IRF4 interferon regulatory factor 4 [Source:HGNC Symbol;Acc:HGNC:1054]
17	204429_s_at	1.31	-2.03	0.44	SLC2A5 solute carrier family 2 member 5 [Source:HGNC Symbol;Acc:HGNC:1054]
18	208653_s_at	1.3	-1.11	0.53	CD164 CD164 molecule [Source:HGNC Symbol;Acc:HGNC:1632]
19	201718_s_at	1.29	-1.09	0.3	EPB41L2 erythrocyte membrane protein band 4.1 like 2 [Source:HGNC Symbol;Acc:HGNC:1054]
20	216734_s_at	1.29	-1.59	0.43	CXCR5 C-X-C motif chemokine receptor 5 [Source:HGNC Symbol;Acc:HGNC:1054]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-83	105 / 282	Gliom WILLSCHER_GBM_Verhaak-PNwt & CL_up
2	4e-53	299 / 4261	Lymph HOPP_Txn_transition
3	2e-52	60 / 136	Refer Chaussabel_2_9_Cytoskeleton
4	2e-48	86 / 372	GSE/ SENESE_HDAC1_TARGETS_UP
5	2e-47	334 / 5529	Lymph HOPP_Txn_elongation
6	2e-42	83 / 405	GSE/ SENESE_HDAC3_TARGETS_UP
7	7e-31	66 / 355	Refer WIRTH_Immune system
8	1e-27	294 / 5404	Lymph HOPP_Strong_enhancer
9	2e-22	55 / 344	GSE/ THUM_SYSTOLIC_HEART_FAILURE_UP
10	2e-21	114 / 1338	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
11	1e-20	295 / 5908	Lymph HOPP_Active_promoter
12	2e-20	219 / 3805	CC cytosol
13	3e-20	309 / 6368	Color LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
14	7e-20	67 / 564	GSE/ RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_UP
15	4e-19	53 / 376	GSE/ GARY_CD5_TARGETS_UP
16	2e-17	70 / 678	Refer PROTEINATLAS_lymph node
17	2e-16	114 / 1550	GSE/ PILON_KLF1_TARGETS_DN
18	2e-15	120 / 1729	Color LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP
19	2e-15	24 / 92	GSE/ SENESE_HDAC2_TARGETS_UP
20	4e-15	83 / 989	Refer PROTEINATLAS_tonsil
21	4e-14	97 / 1312	GSE/ PUJANA_ATM_PCC_NETWORK
22	5e-14	28 / 146	GSE/ ELVIDGE_HYPOXIA_DN
23	8e-14	234 / 4701	CC cytoplasm
24	1e-13	52 / 485	GSE/ BONOME_OVARIAN_CANCER_SURVIVAL_SUBOPTIMAL_DEBULKING
25	1e-13	106 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
26	2e-13	56 / 560	GSE/ MARTINEZ_RB1_TARGETS_UP
27	2e-13	31 / 189	GSE/ SENESE_HDAC1_AND_HDAC2_TARGETS_UP
28	2e-12	47 / 439	GSE/ MARTORIATI_MDM4_TARGETS_FETAL_LIVER_DN
29	5e-12	69 / 848	Refer PROTEINATLAS_adrenal gland
30	5e-12	31 / 213	GSE/ THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_DN
31	7e-12	23 / 118	GSE/ AZARE_NEOPLASTIC_TRANSFORMATION_BY_STAT3_UP
32	8e-12	35 / 272	GSE/ LIU_SOX4_TARGETS_DN
33	1e-11	332 / 7864	MF protein binding
34	1e-11	185 / 3564	TF ICGC_Taf1_targets
35	1e-11	66 / 809	Refer PROTEINATLAS_fallopian tube
36	3e-11	221 / 4579	CC nucleus
37	3e-11	17 / 65	GSE/ FALVELLA_SMOKERS_WITH_LUNG_CANCER
38	3e-11	60 / 708	Refer PROTEINATLAS_thyroid gland
39	3e-11	13 / 34	GSE/ LOPEZ_TRANSLATION_VIA_FN1_SIGNALING
40	5e-11	259 / 5682	Lymph HOPP_Weak_promoter



Overexpression Spots

Spot Summary: X

metagenes = 7
genes = 92

<r> metagenes = 0.99

<r> genes = 0.19

beta: r2= 3.66 / log p= -Inf

samples with spot = 24 (10.9 %)

intermediate : 8 (16.7 %)

non-mBL : 16 (12.4 %)

Spot Genelist

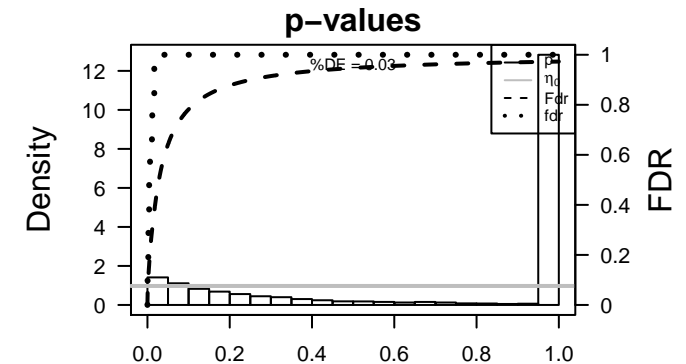
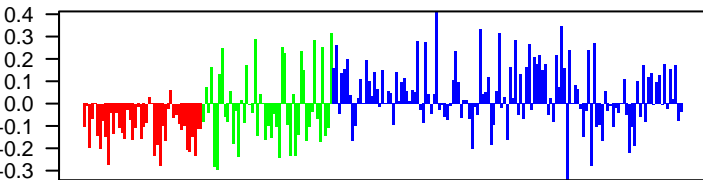
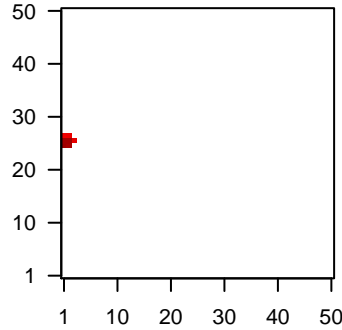
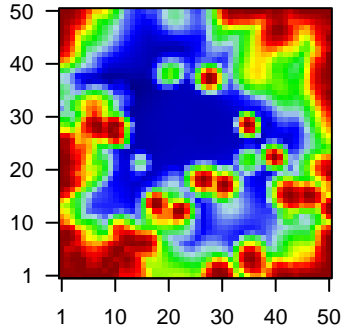
Rank	ID	max e	r	Description	
		min e		Symbol	
1	203440_at	2.45	-0.91	0.27	CDH2 cadherin 2 [Source:HGNC Symbol;Acc:HGNC:1759]
2	213110_s_at	2.3	-0.71	0.38	COL4A5 collagen type IV alpha 5 chain [Source:HGNC Symbol;Acc:HGNC:1759]
3	210889_s_at	2.27	-1.18	0.32	FCGR2B Fc fragment of IgG receptor IIb [Source:HGNC Symbol;Acc:HGNC:1759]
4	203684_s_at	2.03	-1.19	0.55	BCL2 BCL2, apoptosis regulator [Source:HGNC Symbol;Acc:HGNC:1759]
5	207005_s_at	1.88	-1.01	0.42	BCL2 BCL2, apoptosis regulator [Source:HGNC Symbol;Acc:HGNC:1759]
6	206983_at	1.72	-1.12	0.5	
7	203695_s_at	1.63	-1.51	0.3	GSDME gasdermin E [Source:HGNC Symbol;Acc:HGNC:2810]
8	207059_at	1.63	-0.78	0.42	PAX9 paired box 9 [Source:HGNC Symbol;Acc:HGNC:8623]
9	210355_at	1.58	-0.84	0.29	PTH1H parathyroid hormone like hormone [Source:HGNC Symbol;Acc:HGNC:1759]
10	209795_at	1.57	-1.39	0.49	CD69 CD69 molecule [Source:HGNC Symbol;Acc:HGNC:1694]
11	205139_s_at	1.49	-0.66	0.43	UST uronyl 2-sulfotransferase [Source:HGNC Symbol;Acc:HGNC:1759]
12	215537_x_at	1.46	-0.78	0.34	DDAH2 dimethylarginine dimethylaminohydrolase 2 [Source:HGNC Symbol;Acc:HGNC:1759]
13	219748_at	1.46	-0.98	0.46	TREML2 triggering receptor expressed on myeloid cells like 2 [Source:HGNC Symbol;Acc:HGNC:1759]
14	205466_s_at	1.46	-1.05	0.31	HS3ST1 heparan sulfate-glucosamine 3-sulfotransferase 1 [Source:HGNC Symbol;Acc:HGNC:1759]
15	203220_s_at	1.41	-0.78	0.37	TLE1 transducin like enhancer of split 1 [Source:HGNC Symbol;Acc:HGNC:1759]
16	205841_at	1.41	-0.89	0.52	JAK2 Janus kinase 2 [Source:HGNC Symbol;Acc:HGNC:6192]
17	210643_at	1.37	-1.36	0.39	TNFSF11 TNF superfamily member 11 [Source:HGNC Symbol;Acc:HGNC:1759]
18	207112_s_at	1.35	-1.12	0.41	GAB1 GRB2 associated binding protein 1 [Source:HGNC Symbol;Acc:HGNC:1759]
19	210162_s_at	1.34	-1.62	0.39	NFATC1 nuclear factor of activated T cells 1 [Source:HGNC Symbol;Acc:HGNC:1759]
20	216399_s_at	1.3	-0.87	0.51	SCAPER5-phase cyclin A associated protein in the ER [Source:HGNC Symbol;Acc:HGNC:1759]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-09	14 / 317	Cancer SPANG_BCL6-index2
2	5e-08	54 / 5404	Lymph HOPP_Strong_enhancer
3	1e-07	7 / 68	GSE# KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY
4	4e-07	5 / 27	GSE# SHIN_B_CELL_LYMPHOMA_CLUSTER_3
5	4e-07	8 / 121	GSE# HUANG_GATA2_TARGETS_UP
6	1e-06	52 / 5529	Lymph HOPP_Txn_elongation
7	2e-05	5 / 59	GSE# PID_BCR_5PATHWAY
8	2e-05	3 / 10	GSE# GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLACK
9	2e-05	5 / 60	GSE# TCGA_GLIOMASTOMA_COPY_NUMBER_UP
10	3e-05	50 / 5682	Lymph HOPP_Weak_promoter
11	3e-05	4 / 33	GSE# PID_EPO_PATHWAY
12	3e-05	6 / 109	BP animal organ morphogenesis
13	5e-05	9 / 300	GSE# OSMAN_BLADDER_CANCER_DN
14	5e-05	15 / 830	GSE# DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
15	6e-05	7 / 175	GSE# LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_UP
16	7e-05	4 / 39	BP B cell receptor signaling pathway
17	8e-05	7 / 184	Chr Chr 18
18	9e-05	4 / 42	Refer Chaussabel_1,3_B-cells
19	1e-04	4 / 43	GSE# SIG_BCR_SIGNALING_PATHWAY
20	1e-04	5 / 83	GSE# DACOSTA_UV_RESPONSE_VIA_ERCC3_XPCS_DN
21	1e-04	4 / 46	GSE# MARSON_FOXP3_TARGETS_DN
22	1e-04	3 / 18	BP positive regulation of T cell activation
23	2e-04	3 / 19	GSE# ZHANG_RESPONSE_TO_CANTHARIDIN_UP
24	2e-04	4 / 49	GSE# PID_KIT_PATHWAY
25	2e-04	9 / 368	GSE# ZHENG_BOUND_BY_FOXP3
26	2e-04	5 / 99	GSE# PANGAS_TUMOR_SUPPRESSION_BY_SMAD1_AND_SMAD5_UP
27	2e-04	12 / 642	GSE# CUI_TCF21_TARGETS_2_DN
28	3e-04	49 / 5908	Lymph HOPP_Active_promoter
29	3e-04	4 / 57	GSE# MORI_PRE_BI_LYMPHOCYTE_DN
30	3e-04	39 / 4261	Lymph HOPP_Txn_transition
31	3e-04	8 / 303	miRN hsa-miR-454
32	3e-04	2 / 5	GSE# MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_18
33	4e-04	7 / 234	GSE# HOLLMANN_APOPTOSIS_VIA_CD40_DN
34	4e-04	3 / 25	BP endoderm development
35	5e-04	4 / 64	BP regulation of GTPase activity
36	5e-04	14 / 906	Lymph SPANG_BCR_DN
37	5e-04	5 / 118	miRN hsa-miR-548f
38	6e-04	7 / 252	GSE# LU_AGING_BRAIN_UP
39	6e-04	5 / 121	GSE# PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_DN
40	7e-04	2 / 7	GSE# MIKKELSEN_PLURIPOTENT_STATE_DN

Overview Map

Spot



Overexpression Spots

Spot Summary: Y

metagenes = 6
genes = 120

<r> metagenes = 0.97

<r> genes = 0.42

beta: r2= 20.7 / log p= -Inf

samples with spot = 53 (24 %)

intermediate : 2 (4.2 %)

non-mBL : 51 (39.5 %)

Spot Genelist

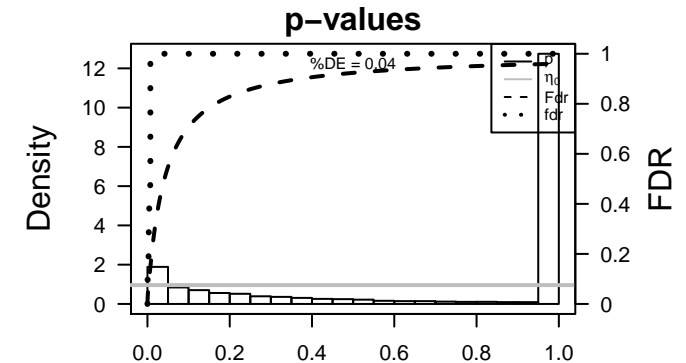
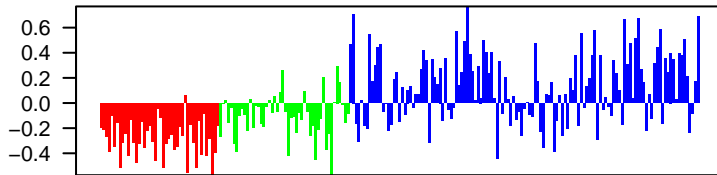
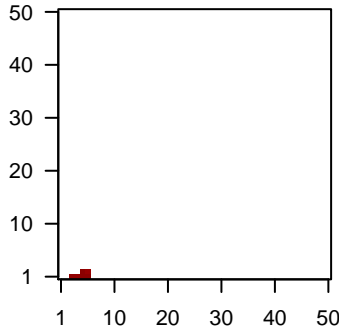
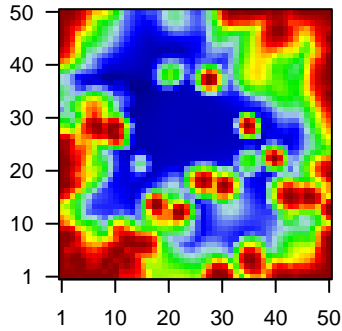
Rank	ID	max e	r	min e	Description
					Symbol
1	205040_at	2.98	-1.17	0.61	ORM1 orosomucoid 1 [Source:HGNC Symbol;Acc:HGNC:8498]
2	205041_s_at	2.9	-1.48	0.66	ORM1 orosomucoid 1 [Source:HGNC Symbol;Acc:HGNC:8498]
3	219316_s_at	2.46	-0.79	0.65	FLVCR2 feline leukemia virus subgroup C cellular receptor family mem
4	217546_at	2.25	-0.88	0.61	metallothionein 1M [Source:HGNC Symbol;Acc:HGNC:14296]
5	208168_s_at	2.22	-1.13	0.56	CHIT1 chitinase 1 [Source:HGNC Symbol;Acc:HGNC:1936]
6	204561_x_at	2.19	-1.95	0.41	APOC4-APOC2 readthrough (NMD candidate) [Source:HGNC
7	221841_s_at	2.08	-1.17	0.52	KLF4 Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]
8	202357_s_at	1.99	-1.29	0.64	CFB complement factor B [Source:HGNC Symbol;Acc:HGNC:103]
9	212657_s_at	1.91	-0.87	0.5	IL1RN interleukin 1 receptor antagonist [Source:HGNC Symbol;Acc:
10	221766_s_at	1.85	-0.98	0.51	FAM46A family with sequence similarity 46 member A [Source:HGNC :
11	203827_at	1.63	-0.75	0.56	WIPI1 WD repeat domain, phosphoinositide interacting 1 [Source:Hi
12	204745_x_at	1.58	-1.14	0.69	MT1G metallothionein 1G [Source:HGNC Symbol;Acc:HGNC:7399]
13	222088_s_at	1.58	-1.2	0.62	SLC2A14solute carrier family 2 member 14 [Source:HGNC Symbol;Acc:
14	206631_at	1.55	-1.15	0.68	PTGER2prostaglandin E receptor 2 [Source:HGNC Symbol;Acc:HGNC:
15	202497_x_at	1.54	-1.67	0.63	SLC2A3 solute carrier family 2 member 3 [Source:HGNC Symbol;Acc:
16	210222_s_at	1.54	-1.12	0.67	RTN1 reticulon 1 [Source:HGNC Symbol;Acc:HGNC:10467]
17	202827_s_at	1.53	-1.17	0.7	MMP14 matrix metalloproteinase 14 [Source:HGNC Symbol;Acc:HGNC:
18	206100_at	1.48	-1.24	0.55	CPM carboxypeptidase M [Source:HGNC Symbol;Acc:HGNC:2311]
19	202912_at	1.47	-1.35	0.43	ADM adrenomedullin [Source:HGNC Symbol;Acc:HGNC:259]
20	211581_x_at	1.46	-1.1	0.57	LST1 leukocyte specific transcript 1 [Source:HGNC Symbol;Acc:HC

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-24	31 / 386	GSE/ RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP
2	2e-19	27 / 404	GSE/ RUTELLA_RESPONSE_TO_HGF_UP
3	4e-17	26 / 447	Gliom ScoV_0.999_Sturm_E4_Mesenchymal_RTK_I'PDGFRA_DN
4	2e-14	20 / 297	GSE/ RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_DN
5	3e-14	18 / 231	Gliom WILLSCHEER_GBM_Verhaak-CL & MES_up
6	3e-13	17 / 223	GSE/ MCLACHLAN_DENTAL_CARIES_UP
7	5e-13	20 / 354	GSE/ FULCHER_INFLAMMATORY_RESPONSE_LECTIN_VS_LPS_DN
8	4e-12	14 / 154	GSE/ SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_UP
9	6e-12	17 / 269	Gliom ScoV_0.5_Sturm_C3_Mesenchymal_DN
10	7e-12	11 / 78	Melar Tirosh_expression_higher_in_CAFs_than_in_T-cells
11	4e-11	15 / 219	GSE/ MCLACHLAN_DENTAL_CARIES_DN
12	1e-10	14 / 202	GSE/ VERHAAK_GLIOMASTOMA_MESENCHYMAL
13	2e-10	17 / 335	GSE/ SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
14	7e-10	21 / 589	Color Lembcke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
15	9e-10	19 / 480	Cancr Lembcke_Coloninflammation
16	1e-09	16 / 331	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_2B
17	2e-09	9 / 71	Melar Tirosh_Macrophage_specific_genes-melanoma
18	2e-09	13 / 204	Refer Chaussabel_3.2_Inflammation_I
19	2e-09	12 / 166	GSE/ VERHAAK_AML_WITH_NPM1_MUTATED_UP
20	3e-09	10 / 104	GSE/ ALTEMEIER_RESPONSE_TO_LPS_WITH_MECHANICAL_VENTILATION
21	4e-09	12 / 176	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
22	6e-09	8 / 57	GSE/ HAHTOLA_MYCOSIS_FUNGOIDES_CD4_UP
23	9e-09	11 / 150	GSE/ TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_ERYTHROCYTE_U
24	1e-08	12 / 190	HM HALLMARK_TNFA_SIGNALING_VIA_NFKB
25	1e-08	19 / 560	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
26	1e-08	11 / 156	GSE/ PETROVA_ENDOTHELIAL_LYMPHATIC_VS_BLOOD_DN
27	3e-08	15 / 354	GSE/ RODWELL_AGING_KIDNEY_UP
28	3e-08	22 / 795	GSE/ NUYTEN_EZH2_TARGETS_UP
29	3e-08	9 / 99	Refer Chaussabel_1.5_Myeloid_lineage
30	5e-08	7 / 49	GSE/ DAUER_STAT3_TARGETS_UP
31	7e-08	7 / 51	GSE/ PRAMOONJAGO_SOX4_TARGETS_UP
32	1e-07	12 / 242	Gliom ScoV_0.5_Sturm_C1_IDH_DN
33	1e-07	9 / 117	GSE/ KAN_RESPONSE_TO_ARSENIC_TRIOXIDE
34	2e-07	13 / 294	GSE/ LEI_MYB_TARGETS
35	2e-07	8 / 86	GSE/ HINATA_NFKB_TARGETS_KERATINOCYTE_UP
36	2e-07	5 / 19	Immu Angelova_immune-metagenes-IDC
37	2e-07	10 / 163	GSE/ WIERENGA_STAT5A_TARGETS_UP
38	3e-07	15 / 422	GSE/ DELYS_THYROID_CANCER_UP
39	3e-07	10 / 166	GSE/ ELVIDGE_HYPOXIA_UP
40	3e-07	10 / 169	GSE/ ZWANG_CLASS_3_TRANSIENTLY_INDUCED_BY_EGF

Overview Map

Spot



Overexpression Spots

Spot Summary: Z

metagenes = 13
genes = 215

<r> metagenes = 0.96

<r> genes = 0.43

beta: r2= 16.19 / log p= -Inf

samples with spot = 54 (24.4 %)

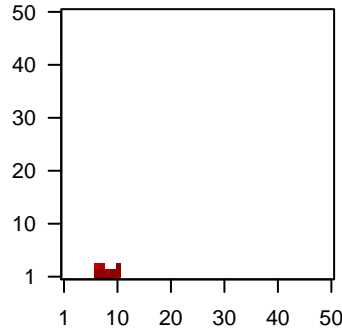
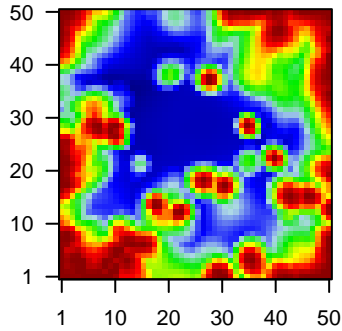
mBL : 6 (13.6 %)

intermediate : 7 (14.6 %)

non-mBL : 41 (31.8 %)

Overview Map

Spot

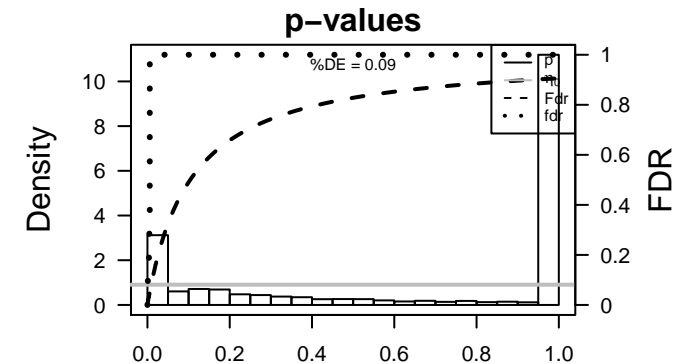
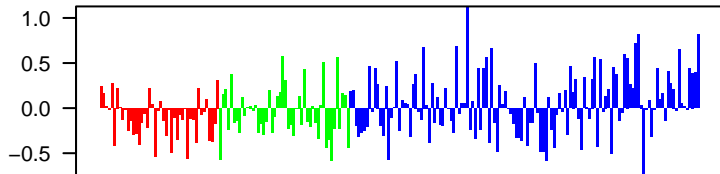


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	204475_at	2.81	-1.25	0.46	MMP1 matrix metalloproteinase 1 [Source:HGNC Symbol;Acc:HGNC:204475]
2	209875_s_at	2.33	-1.91	0.5	SPP1 secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:HGNC:209875]
3	202718_at	2.31	-1.6	0.53	IGFBP2 insulin like growth factor binding protein 2 [Source:HGNC Symbol;Acc:HGNC:202718]
4	203290_at	2.16	-1.91	0.18	HLA-DQA1 major histocompatibility complex, class II, DQ alpha 2 [Source:HGNC Symbol;Acc:HGNC:203290]
5	206025_s_at	2.09	-0.91	0.6	TNFAIP6 TNF alpha induced protein 6 [Source:HGNC Symbol;Acc:HGNC:206025]
6	206026_s_at	2.03	-0.79	0.62	TNFAIP6 TNF alpha induced protein 6 [Source:HGNC Symbol;Acc:HGNC:206026]
7	215646_s_at	2.03	-1.63	0.71	VCAN versican [Source:HGNC Symbol;Acc:HGNC:2464]
8	204457_s_at	2	-1.36	0.68	GAS1 growth arrest specific 1 [Source:HGNC Symbol;Acc:HGNC:204457]
9	206227_at	1.94	-1.63	0.58	ACAN cartilage intermediate layer protein [Source:HGNC Symbol;Acc:HGNC:206227]
10	211813_x_at	1.94	-1.99	0.79	DCN decorin [Source:HGNC Symbol;Acc:HGNC:2705]
11	209616_s_at	1.92	-0.76	0.53	LOC107964422 acyl-CoA oxidase 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:209616]
12	219454_at	1.92	-1.06	0.67	EGFL6 EGF like domain multiple 6 [Source:HGNC Symbol;Acc:HGNC:219454]
13	209621_s_at	1.92	-1.24	0.53	PDLIM3 PDZ and LIM domain 3 [Source:HGNC Symbol;Acc:HGNC:209621]
14	211571_s_at	1.91	-1.5	0.73	VCAN versican [Source:HGNC Symbol;Acc:HGNC:2464]
15	203417_at	1.84	-1.16	0.76	MFAP2 microfibril associated protein 2 [Source:HGNC Symbol;Acc:HGNC:203417]
16	201325_s_at	1.82	-1.23	0.69	EMP1 epithelial membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:201325]
17	204879_at	1.79	-1.13	0.67	PDPN podoplanin [Source:HGNC Symbol;Acc:HGNC:29602]
18	212488_at	1.77	-1.28	0.75	COL5A1 collagen type V alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:212488]
19	203083_at	1.75	-1.25	0.81	THBS2 thrombospondin 2 [Source:HGNC Symbol;Acc:HGNC:11786]
20	215867_x_at	1.73	-1.13	0.67	CA12 carbonic anhydrase 12 [Source:HGNC Symbol;Acc:HGNC:13242]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	9e-99	76 / 214	Lymph Lenz_Stromal signature 1
2	2e-97	85 / 335	GSE# SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
3	6e-81	65 / 196	HM HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
4	5e-66	41 / 63	GSE# ANASTASSIOU_CANCER_MESENCHYMAL_TRANSITION_SIGNATURE
5	1e-57	53 / 212	CC extracellular matrix
6	1e-54	50 / 197	GSE# NABA_CORE_MATRISOME
7	4e-52	37 / 78	Melar Tirosh_CAF-cell specific genes
8	5e-52	43 / 132	Colon Marisa_CRC-cluster-a
9	1e-51	52 / 253	CC proteinaceous extracellular matrix
10	1e-50	46 / 176	GSE# PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
11	3e-50	73 / 747	GSE# NABA_MATRISOME
12	3e-48	45 / 183	BP extracellular matrix organization
13	3e-46	56 / 397	GSE# REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
14	3e-44	39 / 138	GSE# VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP
15	2e-43	46 / 247	GSE# BOOQUEST_STEM_CELL_UP
16	7e-42	76 / 1090	CC extracellular space
17	1e-37	42 / 249	GSE# ONDER_CDH1_TARGETS_2_UP
18	9e-34	48 / 443	GSE# CHICAS_RB1_TARGETS_CONFLUENT
19	1e-33	80 / 1611	CC extracellular region
20	2e-33	32 / 136	GSE# NABA_ECM_GLYCOPROTEINS
21	2e-33	53 / 589	GSE# WONG_ADULT_TISSUE_STEM_MODULE
22	5e-32	24 / 58	GSE# TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_NORMAL
23	8e-31	36 / 231	Gliom WILLSCHER_GBM_Verhaak-CL & MES_up
24	2e-30	42 / 366	GSE# LIM_MAMMARY_STEM_CELL_UP
25	9e-30	23 / 60	GSE# TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_NORMAL
26	9e-29	41 / 376	GSE# CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN
27	9e-29	29 / 138	GSE# IGLESIAS_E2F_TARGETS_UP
28	3e-28	60 / 1001	Color LaPointe_mucosa-position_kmeans_H_cecum_colon_ascending_colon_UP
29	5e-28	27 / 117	GSE# ZHU_CMV_ALL_DN
30	5e-28	22 / 60	GSE# CROMER_TUMORIGENESIS_UP
31	2e-27	38 / 331	GSE# LINDGREN_BLADDER_CANCER_CLUSTER_2B
32	3e-27	36 / 288	Color Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
33	2e-26	21 / 59	GSE# PID_INTEGRIN1_PATHWAY
34	3e-26	22 / 70	GSE# KIM_GLIS2_TARGETS_UP
35	1e-25	23 / 85	Gliom ScoV_0.999_Sturm_E2_IDH_DN
36	1e-25	0 / 14	Canc LIU_PROSTATE_CANCER_DN
37	1e-25	0 / 14	Canc LIU_PROSTATE_CANCER_DN
38	1e-25	23 / 86	GSE# ZHU_CMV_24_HR_DN
39	3e-25	21 / 66	CC basement membrane
40	7e-25	36 / 338	GSE# GRUETZMANN_PANCREATIC_CANCER_UP



Overexpression Spots

Spot Summary: A1

metagenes = 12
genes = 108

<r> metagenes = 0.93
<r> genes = 0.24
beta: r2= 8.96 / log p= -Inf

samples with spot = 43 (19.5 %)
mBL : 2 (4.5 %)
intermediate : 5 (10.4 %)
non-mBL : 36 (27.9 %)

Spot Genelist

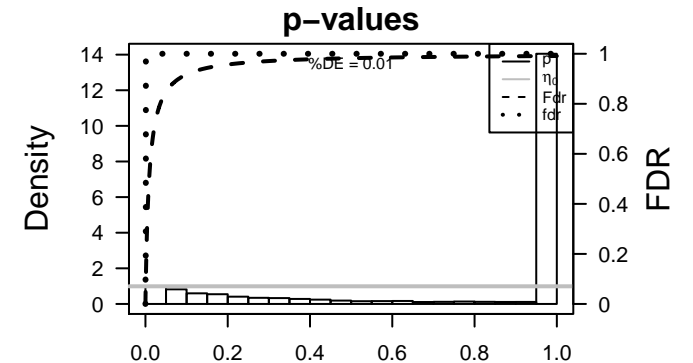
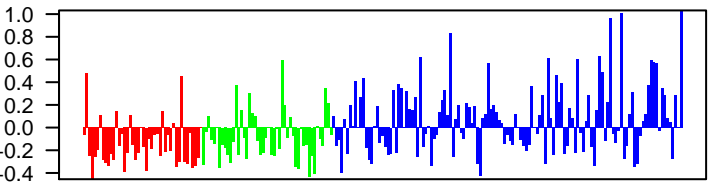
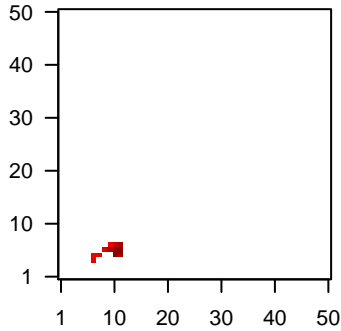
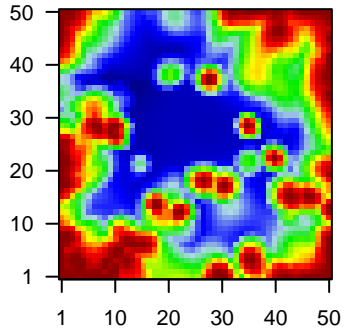
Rank	ID	max e	r	min e	Description
					Symbol
1	216853_x_at	3.78	-1.3	0.56	immunoglobulin lambda variable 3-19 [Source:HGNC Symbol]
2	214777_at	3.45	-1.71	0.56	immunoglobulin kappa variable 4-1 [Source:HGNC Symbol]
3	216560_x_at	3.43	-1.18	0.64	immunoglobulin lambda variable 3-10 [Source:HGNC Symbol]
4	204259_at	3.15	-0.97	0.3	MMP7 matrix metalloproteinase 7 [Source:HGNC Symbol;Acc:HGNC]
5	217281_x_at	3.13	-1.46	0.65	immunoglobulin heavy variable 3-7 [Source:HGNC Symbol]
6	202018_s_at	3.09	-0.86	0.39	LTF lactotransferrin [Source:HGNC Symbol;Acc:HGNC:6720]
7	211634_x_at	2.97	-1.71	0.65	immunoglobulin heavy variable 1-69 [Source:HGNC Symbol]
8	216365_x_at	2.94	-0.92	0.47	
9	216984_x_at	2.81	-1.47	0.68	
10	211650_x_at	2.76	-1.14	0.66	immunoglobulin heavy variable 3-23 [Source:HGNC Symbol]
11	216412_x_at	2.72	-0.9	0.39	
12	214768_x_at	2.67	-1.59	0.66	immunoglobulin kappa variable 2-28 [Source:HGNC Symbol]
13	215214_at	2.64	-1.12	0.72	immunoglobulin lambda variable 3-25 [Source:HGNC Symbol]
14	211640_x_at	2.62	-1.03	0.62	
15	211635_x_at	2.55	-1.67	0.62	immunoglobulin heavy variable 1-69 [Source:HGNC Symbol]
16	211643_x_at	2.53	-1.39	0.65	
17	217179_x_at	2.49	-1.3	0.51	
18	217148_x_at	2.47	-1.36	0.58	immunoglobulin lambda variable 2-14 [Source:HGNC Symbol]
19	211798_x_at	2.47	-1.18	0.7	
20	216401_x_at	2.41	-1.34	0.66	immunoglobulin kappa variable 1-37 (non-functional) [Source:HGNC Symbol]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-23	15 / 44	MF antigen binding
2	4e-20	14 / 52	BP complement activation, classical pathway
3	6e-17	17 / 161	BP adaptive immune response
4	3e-16	11 / 39	BP complement activation
5	1e-14	11 / 53	BP regulation of complement activation
6	2e-14	12 / 76	BP Fc-gamma receptor signaling pathway involved in phagocytosis
7	2e-13	9 / 32	Referer Chaussabel_1,1_Plasma Cells
8	1e-12	18 / 336	BP immune response
9	3e-12	12 / 113	BP regulation of immune response
10	7e-12	13 / 154	MF serine-type endopeptidase activity
11	7e-11	18 / 431	BP immune system process
12	9e-11	12 / 150	BP leukocyte migration
13	1e-10	11 / 119	BP receptor-mediated endocytosis
14	2e-10	46 / 3210	CC plasma membrane
15	3e-10	11 / 129	BP Fc-epsilon receptor signaling pathway
16	4e-10	12 / 169	GSE/ RODWELL_AGING_KIDNEY_NO_BLOOD_UP
17	1e-09	31 / 1611	CC extracellular region
18	2e-09	10 / 116	CC blood microparticle
19	3e-09	16 / 412	GSE/ BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP
20	3e-09	17 / 480	Cancr Lembcke_Colonc Inflammation
21	6e-09	12 / 214	Lymp LENZ_Stromal signature 1
22	2e-08	5 / 15	BP immunoglobulin production
23	1e-07	10 / 176	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
24	4e-07	4 / 11	CC immunoglobulin complex, circulating
25	4e-07	13 / 381	GSE/ SWEET_LUNG_CANCER_KRAS_DN
26	6e-07	7 / 82	Color Pentrack_CRC_TCGA_group.over_A_normal_UP
27	7e-07	13 / 397	Color Pentrack_CRC_TCGA_corr_C_normal_UP
28	7e-07	10 / 218	GSE/ DELYS_THYROID_CANCER_DN
29	7e-07	14 / 469	BP proteolysis
30	1e-06	5 / 32	GSE/ ONGUSAHA_TP53_TARGETS
31	1e-06	12 / 354	GSE/ RODWELL_AGING_KIDNEY_UP
32	2e-06	4 / 16	MF immunoglobulin receptor binding
33	2e-06	14 / 516	GSE/ SMID_BREAST_CANCER_LUMINAL_B_DN
34	2e-06	5 / 36	BP phagocytosis, engulfment
35	5e-06	4 / 19	BP positive regulation of B cell activation
36	5e-06	11 / 333	GSE/ BERENJENO_TRANSFORMED_BY_RHOA_DN
37	7e-06	4 / 21	BP phagocytosis, recognition
38	8e-06	11 / 352	GSE/ SCHAEFFER_PROSTATE_DEVELOPMENT_48HR_UP
39	1e-05	4 / 23	CC podosome
40	2e-05	9 / 247	GSE/ BOQUEST_STEM_CELL_UP

Overview Map

Spot



Overexpression Spots

Spot Summary: B1

metagenes = 7
genes = 71

<r> metagenes = 0.98

<r> genes = 0.46

beta: r2= 17.81 / log p= -Inf

samples with spot = 60 (27.1 %)

intermediate : 5 (10.4 %)

non-mBL : 55 (42.6 %)

Spot Genelist

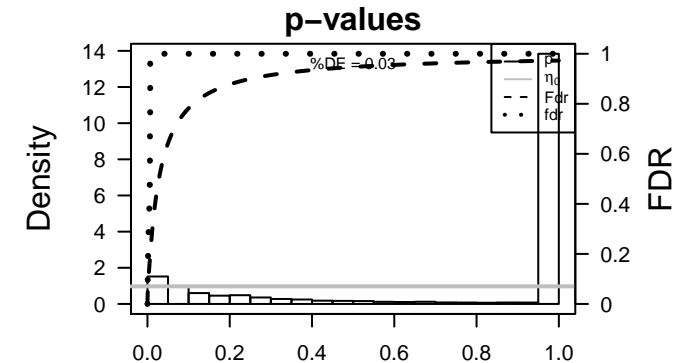
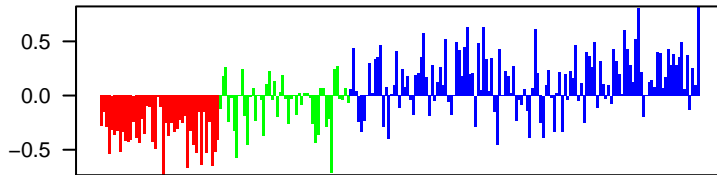
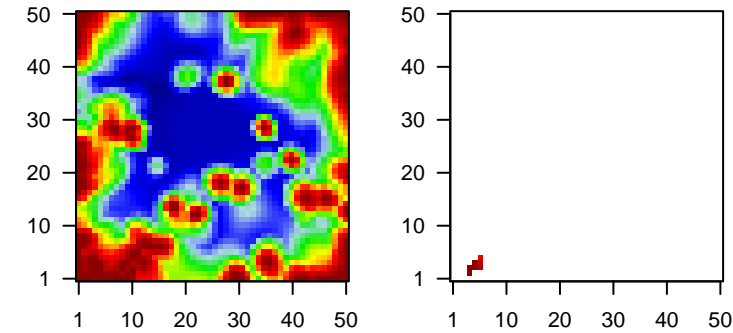
Rank	ID	max e	r	min e	Description
					Symbol
1	215856_at	1.83	-0.82	0.58	SIGLEC1galic acid binding Ig like lectin 15 [Source:HGNC Symbol;Acc:HGNC:1516]
2	208893_s_at	1.76	-1.09	0.56	DUSP6 dual specificity phosphatase 6 [Source:HGNC Symbol;Acc:HGNC:2481]
3	202498_s_at	1.65	-1.31	0.52	SLC2A3 solute carrier family 2 member 3 [Source:HGNC Symbol;Acc:HGNC:1932]
4	208078_s_at	1.5	-1.36	0.39	SIK1B salt inducible kinase 1B (putative) [Source:HGNC Symbol;Acc:HGNC:2481]
5	212974_at	1.49	-1.36	0.57	DENND3DENN domain containing 3 [Source:HGNC Symbol;Acc:HGNC:2481]
6	210904_s_at	1.45	-1.46	0.64	IL13RA1 interleukin 13 receptor subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:2481]
7	202988_s_at	1.42	-1.31	0.64	RGS1 regulator of G protein signaling 1 [Source:HGNC Symbol;Acc:HGNC:2481]
8	205844_at	1.42	-1.65	0.65	VNN1 vanin 1 [Source:HGNC Symbol;Acc:HGNC:12705]
9	204971_at	1.42	-1.58	0.78	CSTA cystatin A [Source:HGNC Symbol;Acc:HGNC:2481]
10	208450_at	1.39	-1.07	0.63	LGALS2 galectin 2 [Source:HGNC Symbol;Acc:HGNC:6562]
11	207085_x_at	1.39	-1.2	0.84	CSF2RA colony stimulating factor 2 receptor alpha subunit [Source:HGNC Symbol;Acc:HGNC:2481]
12	221530_s_at	1.38	-1.5	0.61	BHLHE40basic helix-loop-helix family member e41 [Source:HGNC Symbol;Acc:HGNC:2481]
13	201169_s_at	1.38	-1.64	0.55	BHLHE40basic helix-loop-helix family member e40 [Source:HGNC Symbol;Acc:HGNC:2481]
14	64942_at	1.37	-0.78	0.54	GPR153 G protein-coupled receptor 153 [Source:HGNC Symbol;Acc:HGNC:2481]
15	220088_at	1.35	-1.23	0.68	C5AR1 complement C5a receptor 1 [Source:HGNC Symbol;Acc:HGNC:2481]
16	209396_s_at	1.35	-2.29	0.74	CHI3L1 chitinase 3 like 1 [Source:HGNC Symbol;Acc:HGNC:1932]
17	202499_s_at	1.3	-0.92	0.56	SLC2A3 solute carrier family 2 member 3 [Source:HGNC Symbol;Acc:HGNC:1932]
18	212975_at	1.29	-0.93	0.55	DENND3DENN domain containing 3 [Source:HGNC Symbol;Acc:HGNC:2481]
19	221584_s_at	1.29	-1.18	0.7	KCNMA1potassium calcium-activated channel subfamily M alpha 1 [Source:HGNC Symbol;Acc:HGNC:2481]
20	211612_s_at	1.28	-1.57	0.75	IL13RA1 interleukin 13 receptor subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:2481]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-21	24 / 404	GSE# RUTELLA_RESPONSE_TO_HGF_UP
2	2e-20	23 / 386	GSE# RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP
3	5e-20	19 / 214	Lymp# LENZ_Stromal_signature_1
4	3e-14	14 / 176	GSE# PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
5	8e-13	16 / 327	GSE# RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_UP
6	8e-12	17 / 447	Gliom# ScoV_0.999_Sturm_E4_Mesenchymal_RTK_I_PDGFR_A_DN
7	1e-11	11 / 132	Color# Marisa_CRC-cluster-a
8	2e-11	13 / 223	GSE# MCLACHLAN_DENTAL_CARIES_UP
9	3e-11	13 / 231	Gliom# WILLSCHER_GBM_Verhaak-CL & MES_UP
10	4e-11	14 / 297	GSE# RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_DN
11	6e-11	9 / 78	Melar# Tirosh_expression_higher_in_CAFs_than_in_T-cells
12	9e-11	13 / 255	GSE# HELLER_SILENCED_BY_METHYLATION_UP
13	2e-10	12 / 219	GSE# MCLACHLAN_DENTAL_CARIES_DN
14	3e-10	10 / 131	GSE# BROWN_MYELOID_CELL_DEVELOPMENT_UP
15	6e-10	7 / 41	Lymp# ROSOLOWSKI_blue_DOWN
16	1e-09	11 / 194	GSE# JAATINEN_HEMATOPOIETIC_STEM_CELL_DN
17	5e-09	12 / 288	Color# Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
18	1e-08	8 / 97	Lymp# ROSOLOWSKI_red_total
19	3e-08	7 / 71	Melar# Tirosh_Macrophage_specific_genes-melanoma
20	4e-08	15 / 589	Color# Lembcke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
21	5e-08	8 / 117	GSE# LENAOUR_DENDRITIC_CELL_MATURATION_DN
22	8e-08	5 / 25	GSE# WILENSKY_RESPONSE_TO_DARAPLADIB
23	9e-08	6 / 50	GSE# ROSS_AML_WITH_CBFB_MYH11_FUSION
24	2e-07	13 / 480	Canc# Lembcke_Colonc_Inflammation
25	2e-07	12 / 403	BP# neutrophil_degranulation
26	3e-07	6 / 60	CC# tertiary_granule_membrane
27	3e-07	10 / 269	Gliom# ScoV_0.5_Sturm_C3_Mesenchymal_DN
28	4e-07	8 / 154	GSE# SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_UP
29	5e-07	6 / 67	GSE# O'DONNELL_TARGETS_OF_MYC_AND_TFRC_UP
30	6e-07	7 / 109	Refer# Chaussabel_2_6_Myeloid_lineage
31	6e-07	8 / 162	GSE# TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_DN
32	7e-07	6 / 69	GSE# HESS_TARGETS_OF_HOXA9_AND_MEIS1_DN
33	7e-07	12 / 453	GSE# FULCHER_INFLAMMATORY_RESPONSE_LLECTIN_VS_LPS_UP
34	8e-07	10 / 297	Color# Pentrack_CRC_TCGA_group.over_B_msi-h_UP
35	9e-07	7 / 116	GSE# TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_10D_DN
36	1e-06	8 / 171	GSE# MARKEY_RB1_ACUTE_LOF_UP
37	2e-06	8 / 193	GSE# MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_UP
38	4e-06	9 / 274	BP# cytokine-mediated_signaling_pathway
39	6e-06	9 / 290	GSE# O'DONNELL_TFRC_TARGETS_UP
40	6e-06	8 / 218	GSE# HSHAO_LIVER_SPECIFIC_GENES

Overview Map

Spot



Overexpression Spots

Spot Summary: C1

metagenes = 11
genes = 63

<r> metagenes = 0.96
<r> genes = 0.23
beta: r2= 4.31 / log p= -Inf

samples with spot = 31 (14 %)
intermediate : 6 (12.5 %)
non-mBL : 25 (19.4 %)

Spot Genelist

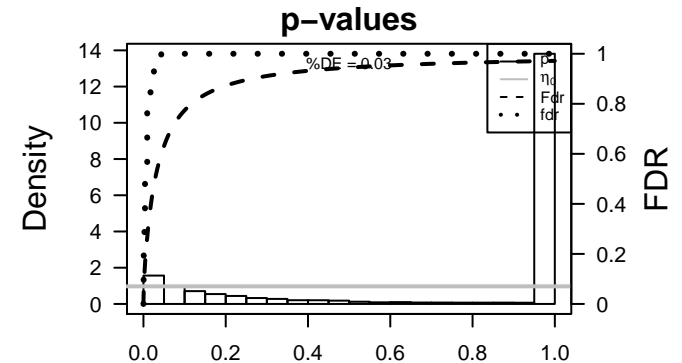
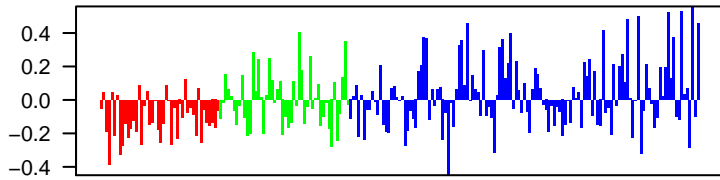
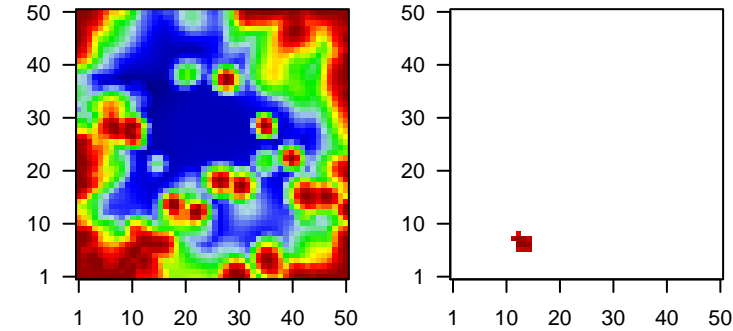
Rank	ID	max e	r	min e	Description
1	204271_s_at	2.45	-0.82	0.48	EDNRB endothelin receptor type B [Source:HGNC Symbol;Acc:HGNC]
2	209278_s_at	2.34	-0.69	0.39	TFPI2 tissue factor pathway inhibitor 2 [Source:HGNC Symbol;Acc:HGNC]
3	203697_at	2.26	-0.97	0.55	FRZB frizzled related protein [Source:HGNC Symbol;Acc:HGNC:39]
4	203698_s_at	2.21	-0.92	0.45	FRZB frizzled related protein [Source:HGNC Symbol;Acc:HGNC:39]
5	206210_s_at	1.88	-1.47	0.51	CETP cholesteryl ester transfer protein [Source:HGNC Symbol;Acc:HGNC]
6	220952_s_at	1.81	-0.93	0.42	PLEKHA7pleckstrin homology domain containing A5 [Source:HGNC Sy
7	203231_s_at	1.8	-1.05	0.56	ATXN1 ataxin 1 [Source:HGNC Symbol;Acc:HGNC:10548]
8	209277_at	1.8	-0.82	0.33	TFPI2 tissue factor pathway inhibitor 2 [Source:HGNC Symbol;Acc:HGNC]
9	206002_at	1.79	-0.99	0.64	ADGRG2adhesion G protein-coupled receptor G2 [Source:HGNC Syrr
10	204273_at	1.78	-1.04	0.56	EDNRB endothelin receptor type B [Source:HGNC Symbol;Acc:HGNC]
11	209894_at	1.77	-0.75	0.44	LEPR leptin receptor [Source:HGNC Symbol;Acc:HGNC:6554]
12	205399_at	1.75	-0.79	0.57	DCLK1 doublecortin like kinase 1 [Source:HGNC Symbol;Acc:HGNC]
13	206291_at	1.75	-0.77	0.52	NTS neurotensin [Source:HGNC Symbol;Acc:HGNC:8038]
14	205110_s_at	1.74	-1.18	0.55	FGF13 fibroblast growth factor 13 [Source:HGNC Symbol;Acc:HGNC]
15	218546_at	1.72	-0.8	0.45	C1orf115chromosome 1 open reading frame 115 [Source:HGNC Synt
16	216035_x_at	1.64	-0.99	0.57	TCF7L2 transcription factor 7 like 2 [Source:HGNC Symbol;Acc:HGNC]
17	201341_at	1.63	-0.98	0.4	ENC1 ectodermal-neural cortex 1 [Source:HGNC Symbol;Acc:HGNC]
18	212761_at	1.56	-1.02	0.64	TCF7L2 transcription factor 7 like 2 [Source:HGNC Symbol;Acc:HGNC]
19	202350_s_at	1.55	-0.76	0.55	MATN2 matrilin 2 [Source:HGNC Symbol;Acc:HGNC:6908]
20	201983_s_at	1.52	-1.23	0.46	EGFR epidermal growth factor receptor [Source:HGNC Symbol;Acc:HGNC]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	9e-12	22 / 1001	Colon LaPointe_mucosa-position_kmeans_H_cecum_colon_ascending_colon_UP
2	2e-10	14 / 381	GSE/ SWEET_LUNG_CANCER_KRAS_DN
3	9e-10	14 / 429	GSE/ SMID_BREAST_CANCER_NORMAL_LIKE_UP
4	1e-09	15 / 516	GSE/ SMID_BREAST_CANCER_LUMINAL_B_DN
5	6e-09	13 / 412	GSE/ BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP
6	2e-08	7 / 75	GSE/ HOELZEL_NF1_TARGETS_DN
7	2e-07	4 / 14	Cancr GENTLES_modul13
8	4e-07	30 / 3168	Lymph HOPP_Repressed
9	2e-06	12 / 565	GSE/ LEE_BMP2_TARGETS_UP
10	3e-06	7 / 160	GSE/ CASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_UP
11	3e-06	6 / 103	GSE/ HOELZEL_NF1_TARGETS_UP
12	5e-06	21 / 1894	Lymph HOPP_Poised_promoter
13	6e-06	9 / 331	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_2B
14	1e-05	7 / 194	GSE/ PLASARI_TGFB1_TARGETS_10HR_DN
15	1e-05	11 / 564	GSE/ GOZGIT_ESR1_TARGETS_DN
16	2e-05	4 / 39	GSE/ TOMLINS_PROSTATE_CANCER_DN
17	2e-05	5 / 84	GSE/ BROWNE_HCMV_INFECTION_16HR_DN
18	2e-05	4 / 42	GSE/ SHIPP_DLCL_VS_FOLLICULAR_LYMPHOMA_DN
19	2e-05	10 / 497	Melar Gerber_wt/wt_melanoma-cells-SpotD
20	2e-05	7 / 218	GSE/ DELYS_THYROID_CANCER_DN
21	3e-05	4 / 43	GSE/ STREICHER_LSM1_TARGETS_UP
22	3e-05	3 / 15	Gliom Mukasa_UP_in_GBM
23	3e-05	3 / 15	GSE/ PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_3
24	3e-05	5 / 90	GSE/ IZADPANAH_STEM_CELL_ADIPOSE_VS_BONE_DN
25	4e-05	6 / 156	GSE/ PHONG_TNF_RESPONSE_VIA_P38_PARTIAL
26	4e-05	7 / 232	BP cell surface receptor signaling pathway
27	5e-05	3 / 18	GSE/ NIELSEN_LEIOMYOSARCOMA_CNN1_UP
28	5e-05	6 / 167	BP Wnt signaling pathway
29	6e-05	9 / 443	GSE/ CHICAS_RB1_TARGETS_CONFLUENT
30	7e-05	6 / 176	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
31	7e-05	6 / 178	GSE/ WU_CELL_MIGRATION
32	1e-04	8 / 366	GSE/ HAN_SATB1_TARGETS_UP
33	1e-04	8 / 366	GSE/ LIM_MAMMARY_STEM_CELL_UP
34	1e-04	4 / 62	Refer VAQUERIZAS_Lung_TF
35	1e-04	10 / 600	GSE/ RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_DN
36	1e-04	8 / 383	GSE/ RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_DN
37	1e-04	3 / 25	GSE/ MATZUK_CENTRAL_FOR_FEMALE_FERTILITY
38	2e-04	2 / 6	GSE/ PLASARI_TGFB1_TARGETS_1HR_DN
39	3e-04	8 / 421	BP nervous system development
40	3e-04	6 / 223	miRN hsa-miR-1244

Overview Map

Spot



Overexpression Spots

Spot Summary: D1

metagenes = 6
genes = 59

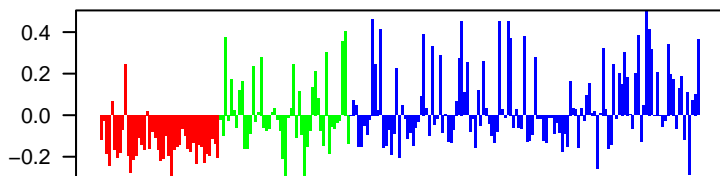
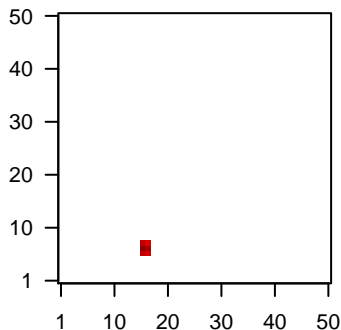
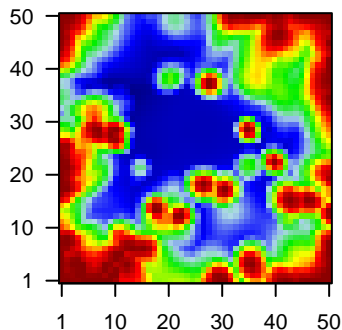
<r> metagenes = 0.99
<r> genes = 0.22
beta: r2= 2.64 / log p= -Inf

samples with spot = 35 (15.8 %)

mBL : 1 (2.3 %)
intermediate : 8 (16.7 %)
non-mBL : 26 (20.2 %)

Overview Map

Spot

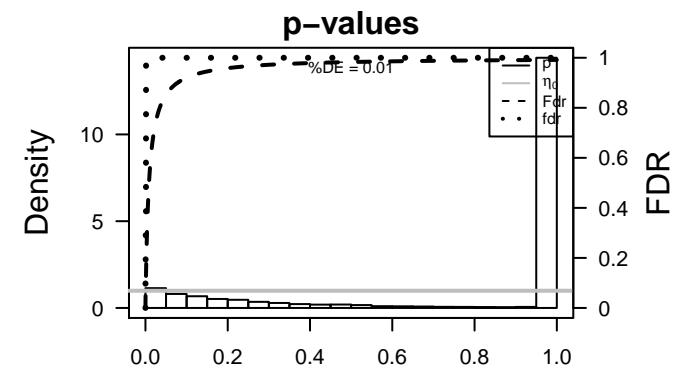


Spot Genelist

Rank	ID	max e	r	Description	
		min e		Symbol	
1	207599_at	2.71	-0.65	0.5	MMP20 matrix metalloproteinase 20 [Source:HGNC Symbol;Acc:HGNC:10468]
2	215813_s_at	2.25	-0.94	0.64	PTGS1 prostaglandin-endoperoxide synthase 1 [Source:HGNC Symbol;Acc:HGNC:10468]
3	204392_at	2.18	-1.11	0.52	CAMK1 calcium/calmodulin dependent protein kinase 1 [Source:HGNC Symbol;Acc:HGNC:10468]
4	205128_x_at	2.13	-1.29	0.6	PTGS1 prostaglandin-endoperoxide synthase 1 [Source:HGNC Symbol;Acc:HGNC:10468]
5	218532_s_at	2.06	-1.12	0.55	RETREG1 reticulophagy regulator 1 [Source:HGNC Symbol;Acc:HGNC:10468]
6	218510_x_at	2.04	-0.72	0.57	RETREG1 reticulophagy regulator 1 [Source:HGNC Symbol;Acc:HGNC:10468]
7	213924_at	1.95	-0.87	0.42	GNAL G protein subunit alpha L [Source:HGNC Symbol;Acc:HGNC:10468]
8	204221_x_at	1.9	-0.87	0.4	GLIPR1 GLI pathogenesis related 1 [Source:HGNC Symbol;Acc:HGNC:10468]
9	211031_s_at	1.74	-1.01	0.63	CLIP2 CAP-Gly domain containing linker protein 2 [Source:HGNC Symbol;Acc:HGNC:10468]
10	205225_at	1.73	-0.97	0.57	ESR1 estrogen receptor 1 [Source:HGNC Symbol;Acc:HGNC:3467]
11	219954_s_at	1.67	-0.97	0.39	GBA3 glucosylceramidase beta 3 (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:10468]
12	212828_at	1.62	-0.97	0.42	SYNJ2 synaptojanin 2 [Source:HGNC Symbol;Acc:HGNC:11504]
13	206385_s_at	1.51	-0.86	0.6	ANK3 ankyrin 3 [Source:HGNC Symbol;Acc:HGNC:494]
14	204217_s_at	1.5	-0.71	0.45	RTN2 reticulon 2 [Source:HGNC Symbol;Acc:HGNC:10468]
15	204813_at	1.5	-0.81	0.51	
16	204491_at	1.42	-1.03	0.6	PDE4D phosphodiesterase 4D [Source:HGNC Symbol;Acc:HGNC:87]
17	204334_at	1.37	-0.88	0.56	KLF7 Kruppel like factor 7 [Source:HGNC Symbol;Acc:HGNC:6350]
18	205407_at	1.35	-1.08	0.51	RECK reversion inducing cysteine rich protein with kazal motifs [Source:HGNC Symbol;Acc:HGNC:10468]
19	34408_at	1.31	-1.05	0.49	RTN2 reticulon 2 [Source:HGNC Symbol;Acc:HGNC:10468]
20	219313_at	1.22	-1.04	0.55	GRAMD1 GRAM domain containing 1C [Source:HGNC Symbol;Acc:HGNC:10468]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	6e-07	13 / 642	GSE# CUI_TCF21_TARGETS_2_DN
2	2e-05	37 / 5682	Lymp# HOPP_Weak_promoter
3	7e-05	14 / 1142	GSE# ZWANG_TRANSIENTLY_UP_BY_1ST_EGF_PULSE_ONLY
4	8e-05	4 / 59	GSE# HUTTMANN_B_CLL_POOR_SURVIVAL_DN
5	8e-05	10 / 600	GSE# RODRIGUES_THYROID_CARINOMA_POORLY_DIFFERENTIATED_DN
6	1e-04	8 / 383	GSE# RODRIGUES_THYROID_CARINOMA_ANAPLASTIC_DN
7	1e-04	30 / 4357	Lymp# HOPP_Weak_txn
8	1e-04	3 / 26	GSE# BIOCARTA_HDAC_PATHWAY
9	1e-04	7 / 297	GSE# BASAKI_YBX1_TARGETS_DN
10	2e-04	11 / 788	GSE# BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
11	2e-04	34 / 5404	Lymp# HOPP_Strong_enhancer
12	2e-04	8 / 434	GSE# MASSARWEH_TAMOXIFEN_RESISTANCE_UP
13	2e-04	3 / 32	miRN# hsa-miR-501-3p
14	4e-04	3 / 38	GSE# PID_ER_NONGENOMIC_PATHWAY
15	4e-04	4 / 92	GSE# HOEBEKE_LYMPHOID_STEM_CELL_UP
16	5e-04	7 / 373	GSE# CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_5
17	6e-04	5 / 175	GSE# LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_UP
18	6e-04	8 / 497	Mela# Gerber_wt/wt_melanoma-cells-SpotD
19	6e-04	14 / 1390	GSE# GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_DN
20	6e-04	7 / 383	GSE# REACTOME_METABOLISM_OF_LIPIDS_AND_LIPOPROTEINS
21	7e-04	6 / 281	CC# lysosome
22	9e-04	29 / 4559	Lymp# HOPP_Weak_enhancer
23	1e-03	3 / 51	GSE# BIOCARTA_NFAT_PATHWAY
24	1e-03	7 / 421	GSE# ACEVEDO_LIVER_CANCER_DN
25	1e-03	4 / 121	GSE# CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_DN
26	1e-03	8 / 560	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
27	1e-03	2 / 14	BP# positive regulation of interleukin-2 production
28	1e-03	34 / 5908	Lymp# HOPP_Active_promoter
29	1e-03	4 / 127	GSE# ELVIDGE_HYPOXIA_BY_DMOG_UP
30	2e-03	5 / 223	miRN# hsa-miR-1244
31	2e-03	2 / 16	GSE# BIOCARTA_ERK5_PATHWAY
32	2e-03	5 / 226	GSE# GABRIELY_MIR21_TARGETS
33	2e-03	4 / 135	MF# actin filament binding
34	2e-03	2 / 17	MF# guanyl nucleotide binding
35	2e-03	2 / 17	GSE# BRACHAT_RESPONSE_TO_CISPLATIN
36	2e-03	3 / 66	MF# dioxygenase activity
37	2e-03	3 / 66	Gliom# GIEZELT_GBM_MGMTmethyl_down_VS_nonmethyl
38	2e-03	4 / 141	GSE# REACTOME_PHOSPHOLIPID_METABOLISM
39	2e-03	2 / 18	CC# costamere
40	2e-03	2 / 18	GSE# BRACHAT_RESPONSE_TO_METHOTREXATE_UP



Overexpression Spots

Spot Summary: E1

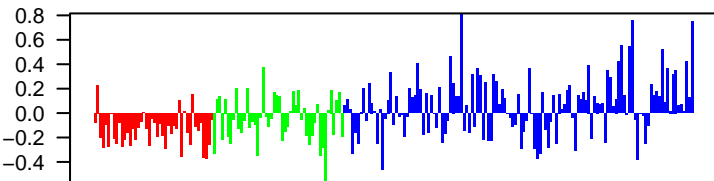
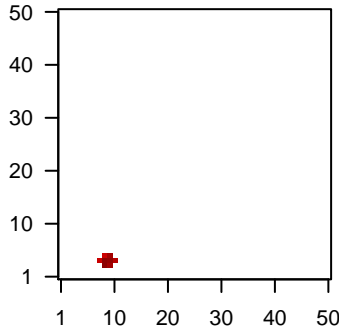
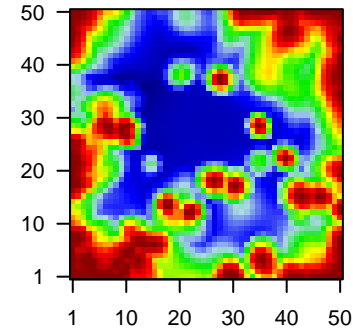
metagenes = 8
genes = 66

<r> metagenes = 0.97
<r> genes = 0.35
beta: r2= 11.07 / log p= -Inf

samples with spot = 31 (14 %)
mBL : 1 (2.3 %)
intermediate : 1 (2.1 %)
non-mBL : 29 (22.5 %)

Overview Map

Spot

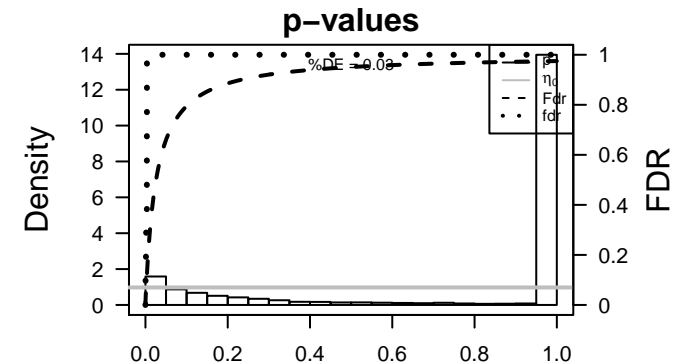


Spot Genelist

Rank	ID	max e	r	min e	Description
1	205755_at	2.49	-0.9	0.54	ITIH3 inter-alpha-trypsin inhibitor heavy chain 3 [Source:HGNC Sy
2	205569_at	1.94	-1.1	0.58	LAMP3 lysosomal associated membrane protein 3 [Source:HGNC Sy
3	212624_s_at	1.93	-1.32	0.67	CHN1 chimerin 1 [Source:HGNC Symbol;Acc:HGNC:1943]
4	211458_s_at	1.69	-1.08	0.4	GABARAPL1 GABA type A receptor associated protein like 1 [Source:HGN
5	212158_at	1.62	-1.46	0.56	SDC2 syndecan 2 [Source:HGNC Symbol;Acc:HGNC:10659]
6	219825_at	1.61	-0.96	0.55	CYP26B1 cytochrome P450 family 26 subfamily B member 1 [Source:H
7	210605_s_at	1.52	-0.92	0.56	MFGE8 milk fat globule-EGF factor 8 protein [Source:HGNC Symbol;
8	201012_at	1.43	-0.92	0.63	ANXA1 annexin A1 [Source:HGNC Symbol;Acc:HGNC:533]
9	202949_s_at	1.43	-1.04	0.54	FHL2 four and a half LIM domains 2 [Source:HGNC Symbol;Acc:HC
10	203038_at	1.42	-0.96	0.7	PTPRK protein tyrosine phosphatase, receptor type K [Source:HGNC
11	212942_s_at	1.38	-1.23	0.49	CEMIP cell migration inducing hyaluronan binding protein [Source:HC
12	219229_at	1.36	-0.77	0.39	SLCO3A1 solute carrier organic anion transporter family member 3A1 [S
13	209487_at	1.35	-1.07	0.77	RBPM5 RNA binding protein, mRNA processing factor [Source:HGNC
14	208869_s_at	1.35	-0.97	0.43	GABARAPL1 GABA type A receptor associated protein like 1 [Source:HGN
15	214880_x_at	1.3	-1.4	0.53	
16	219181_at	1.28	-0.78	0.63	LIPG lipase G, endothelial type [Source:HGNC Symbol;Acc:HGNC
17	202555_s_at	1.28	-1.41	0.6	MYLK myosin light chain kinase [Source:HGNC Symbol;Acc:HGNC:
18	209488_s_at	1.27	-0.94	0.72	RBPM5 RNA binding protein, mRNA processing factor [Source:HGNC
19	209210_s_at	1.26	-1.29	0.7	FERMT2 fermitin family member 2 [Source:HGNC Symbol;Acc:HGNC:
20	213071_at	1.25	-0.81	0.6	DPT dermatopontin [Source:HGNC Symbol;Acc:HGNC:3011]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-23	20 / 176	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
2	4e-23	21 / 214	Lymp/ LENZ_Stromal signature 1
3	1e-15	1 / 14	Canci/ LIU_PROSTATE_CANCER_DN
4	1e-15	1 / 14	Canci/ LIU_PROSTATE_CANCER_DN
5	5e-15	19 / 397	GSE/ REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
6	3e-14	12 / 103	Colon/ Marisa_CRC-cluster-b
7	1e-12	16 / 335	GSE/ SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
8	6e-12	19 / 589	GSE/ WONG_ADULT_TISSUE_STEM_MODULE
9	9e-11	9 / 81	GSE/ SWEET_KRAS_TARGETS_UP
10	1e-09	21 / 1001	Color/ LaPointe_mucosa-position_kmeans_H_cecum_colon_ascending_colon_UP
11	3e-09	36 / 3168	Lymp/ HOPP_Repressed
12	7e-09	13 / 366	GSE/ LIM_MAMMARY_STEM_CELL_UP
13	1e-08	13 / 376	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN
14	1e-08	27 / 1894	Lymp/ HOPP_Poised_promoter
15	1e-08	11 / 251	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_DN
16	2e-08	10 / 196	HM/ HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
17	2e-08	12 / 331	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_2B
18	3e-08	9 / 155	GSE/ MCBRYAN_PUBERTAL_TGFB1_TARGETS_UP
19	5e-08	14 / 516	GSE/ SMID_BREAST_CANCER_LUMINAL_B_DN
20	9e-08	12 / 374	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN
21	2e-07	10 / 249	GSE/ ONDER_CDH1_TARGETS_2_UP
22	3e-07	14 / 600	GSE/ RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_DN
23	4e-07	11 / 345	CC/ focal adhesion
24	4e-07	9 / 212	CC/ extracellular matrix
25	6e-07	12 / 443	GSE/ CHICAS_RB1_TARGETS_CONFLUENT
26	1e-06	8 / 176	GSE/ SENESE_HDAC1_AND_HDAC2_TARGETS_DN
27	1e-06	6 / 77	GSE/ BURTON_ADIPOGENESIS_9
28	1e-06	6 / 78	Melan/ Tirosh_CAF-cell specific genes
29	2e-06	7 / 132	Color/ Marisa_CRC-cluster-a
30	2e-06	11 / 415	GSE/ BAELDE_DIABETIC_NEPHROPATHY_DN
31	3e-06	6 / 88	Lymp/ ROSOLOWSKI_green UP
32	3e-06	7 / 138	GSE/ VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP
33	4e-06	8 / 207	GSE/ WANG_SMARCE1_TARGETS_UP
34	6e-06	9 / 288	Color/ Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
35	6e-06	9 / 291	MF/ actin binding
36	7e-06	8 / 224	GSE/ HOSHIDA_LIVER_CANCER_SUBCLASS_S1
37	9e-06	7 / 165	GSE/ CAIRO_LIVER_DEVELOPMENT_UP
38	1e-05	5 / 64	GSE/ LINDSTEDT_DENDRITIC_CELL_MATURATION_D
39	1e-05	11 / 491	GSE/ ENK_UV_RESPONSE_EPIDERMIS_DN
40	1e-05	10 / 400	GSE/ DUTERTRE ESTRADIOL_RESPONSE_24HR_DN



Overexpression Spots

Spot Summary: F1

metagenes = 11
genes = 103

<r> metagenes = 0.96
<r> genes = 0.26
beta: r2= 5.95 / log p= -Inf

samples with spot = 24 (10.9 %)
mBL : 3 (6.8 %)
intermediate : 3 (6.2 %)
non-mBL : 18 (14 %)

Spot Genelist

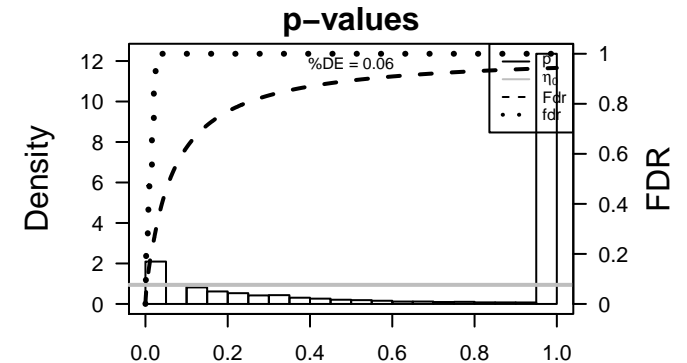
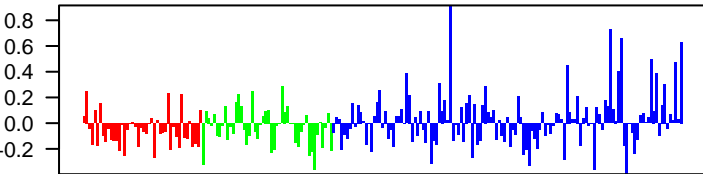
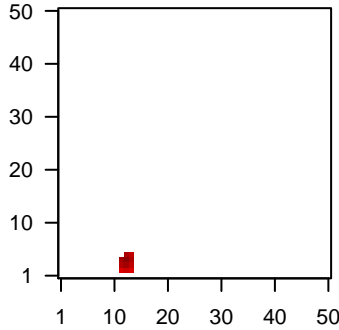
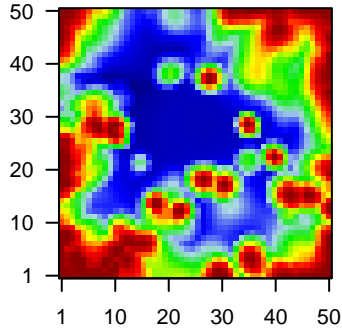
Rank	ID	max e	r	min e	Description
1	214465_at	3.11	-0.71	0.4	ORM2 orosomucoid 2 [Source:HGNC Symbol;Acc:HGNC:8499]
2	203789_s_at	2.15	-0.8	0.45	SEMA3Csemaphorin 3C [Source:HGNC Symbol;Acc:HGNC:10725]
3	202888_s_at	2.08	-0.72	0.46	ANPEP alanyl aminopeptidase, membrane [Source:HGNC Symbol;Acc:HGNC:10725]
4	222288_at	2.05	-0.78	0.7	
5	207738_s_at	2.04	-0.97	0.68	NCKAP1 NCK associated protein 1 [Source:HGNC Symbol;Acc:HGNC:10725]
6	218468_s_at	2.04	-0.87	0.47	GREM1 gremlin 1, DAN family BMP antagonist [Source:HGNC Symbol;Acc:HGNC:10725]
7	212771_at	2.03	-0.89	0.52	FAM171A family with sequence similarity 171 member A1 [Source:HGNC Symbol;Acc:HGNC:10725]
8	203903_s_at	2	-0.91	0.76	HEPH1 hephaestin [Source:HGNC Symbol;Acc:HGNC:4866]
9	204363_at	1.96	-0.74	0.65	F3 coagulation factor III, tissue factor [Source:HGNC Symbol;Acc:HGNC:10725]
10	209436_at	1.86	-0.96	0.46	SPON1 spondin 1 [Source:HGNC Symbol;Acc:HGNC:11252]
11	202177_at	1.86	-1.06	0.62	GAS6 growth arrest specific 6 [Source:HGNC Symbol;Acc:HGNC:4866]
12	202973_x_at	1.84	-0.71	0.6	FAM13A family with sequence similarity 13 member A [Source:HGNC Symbol;Acc:HGNC:10725]
13	205573_s_at	1.79	-0.88	0.72	SNX7 sorting nexin 7 [Source:HGNC Symbol;Acc:HGNC:14971]
14	204041_at	1.74	-0.87	0.61	MAOB monoamine oxidase B [Source:HGNC Symbol;Acc:HGNC:6877]
15	203548_s_at	1.72	-0.99	0.44	LPL lipoprotein lipase [Source:HGNC Symbol;Acc:HGNC:6677]
16	218469_at	1.7	-1.02	0.49	GREM1 gremlin 1, DAN family BMP antagonist [Source:HGNC Symbol;Acc:HGNC:10725]
17	201125_s_at	1.68	-0.8	0.51	ITGB5 integrin subunit beta 5 [Source:HGNC Symbol;Acc:HGNC:6177]
18	201939_at	1.64	-0.84	0.56	PLK2 polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]
19	212865_s_at	1.63	-0.85	0.63	COL14A1 collagen type XIV alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:10725]
20	219087_at	1.6	-0.85	0.45	ASPN asporin [Source:HGNC Symbol;Acc:HGNC:14872]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-16	19 / 214	Lymph LENZ_Stromal signature 1
2	6e-16	23 / 366	GSE/ LIM_MAMMARY_STEM_CELL_UP
3	1e-15	46 / 1894	Lymph HOPP_Poised_promoter
4	9e-15	1 / 14	Cancer LIU_PROSTATE_CANCER_DN
5	9e-15	1 / 14	Cancer LIU_PROSTATE_CANCER_DN
6	9e-14	16 / 176	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
7	8e-13	31 / 1001	Colon LaPointe_mucosa-position_kmeans_H_cecum colon_ascending colon_UP
8	8e-13	55 / 3168	Lymph HOPP_Repressed
9	2e-11	19 / 381	GSE/ SWEET_LUNG_CANCER_KRAS_DN
10	1e-10	18 / 376	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN
11	2e-10	17 / 335	GSE/ SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
12	5e-10	22 / 642	GSE/ CUI_TCF21_TARGETS_2_DN
13	7e-10	21 / 589	GSE/ WONG_ADULT_TISSUE_STEM_MODULE
14	1e-09	17 / 374	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN
15	1e-09	16 / 331	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_2B
16	3e-09	10 / 103	Colon Marisa_CRC-cluster-b
17	1e-08	16 / 383	GSE/ RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_DN
18	1e-08	18 / 500	BP cell adhesion
19	2e-08	18 / 512	GSE/ WEST_ADRENOCORTICAL_TUMOR_DN
20	2e-08	16 / 397	GSE/ REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
21	2e-08	13 / 247	GSE/ BOQUEST_STEM_CELL_UP
22	3e-08	13 / 252	GSE/ LU_AGING_BRAIN_UP
23	3e-08	8 / 68	GSE/ HUANG_DASATINIB_RESISTANCE_UP
24	4e-08	13 / 262	GSE/ PASINI_SUZ12_TARGETS_DN
25	6e-08	8 / 75	Melan Tirosh_Endothelial-cell specific genes-melanoma
26	7e-08	17 / 497	Melan Gerber_wt/wt_melanoma-cells-SpotD
27	9e-08	7 / 53	Lymph LENZ_Stromal signature 2
28	1e-07	8 / 82	GSE/ ONDER_CDH1_SIGNALING_VIA_CTNNB1
29	1e-07	17 / 516	GSE/ SMID_BREAST_CANCER_LUMINAL_B_DN
30	2e-07	7 / 58	GSE/ BURTON_ADIPOGENESIS_PEAK_AT_0HR
31	2e-07	6 / 36	GSE/ KUNINGER_IGF1_VS_PDGF_TARGETS_DN
32	2e-07	46 / 3210	CC plasma membrane
33	2e-07	9 / 121	GSE/ CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_DN
34	2e-07	12 / 249	GSE/ ONDER_CDH1_TARGETS_2_UP
35	2e-07	37 / 2239	CC extracellular exosome
36	2e-07	15 / 412	GSE/ BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP
37	2e-07	11 / 207	GSE/ WANG_SMARCE1_TARGETS_UP
38	3e-07	10 / 169	GSE/ ZWANG_CLASS_3_TRANSIENTLY_INDUCED_BY_EGF
39	3e-07	15 / 429	GSE/ SMID_BREAST_CANCER_NORMAL_LIKE_UP
40	4e-07	8 / 95	GSE/ TSENG_IRS1_TARGETS_UP

Overview Map

Spot



Overexpression Spots

Spot Summary: G1

metagenes = 6
genes = 147

<r> metagenes = 0.99
<r> genes = 0.09
beta: r2= 0.34 / log p= -Inf

samples with spot = 2 (0.9 %)
intermediate : 1 (2.1 %)
non-mBL : 1 (0.8 %)

Spot Genelist

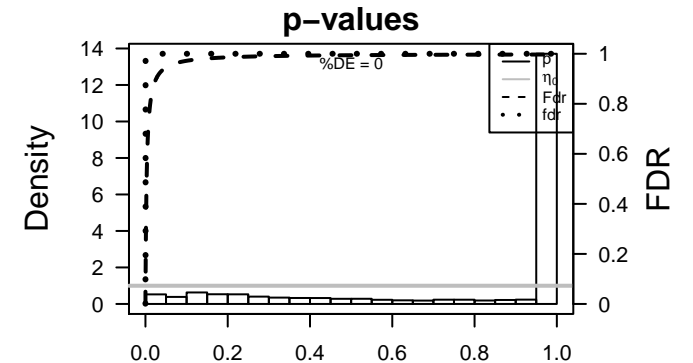
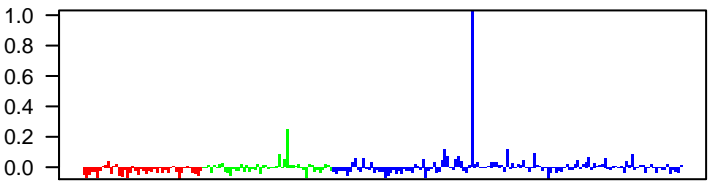
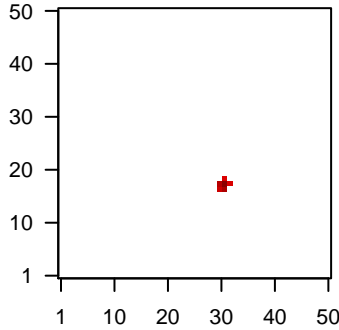
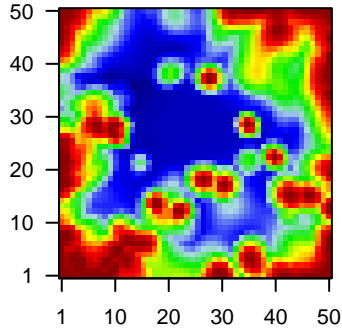
Rank	ID	max e	r	min e	Description
1	216430_x_at	2.85	-0.73	0.41	
2	207213_s_at	2.46	-0.66	0.45	USP2 ubiquitin specific peptidase 2 [Source:HGNC Symbol;Acc:HGNC:10887]
3	219511_s_at	2.03	-0.78	0.4	SNCAIP synuclein alpha interacting protein [Source:HGNC Symbol;Acc:HGNC:10887]
4	206001_at	2	-0.74	0.42	NPY neuropeptide Y [Source:HGNC Symbol;Acc:HGNC:7955]
5	204454_at	1.99	-0.8	0.39	LDOC1 LDOC1, regulator of NFKB signaling [Source:HGNC Symbol;Acc:HGNC:10887]
6	205817_at	1.85	-0.72	0.37	SIX1 SIX homeobox 1 [Source:HGNC Symbol;Acc:HGNC:10887]
7	203458_at	1.84	-1.13	0.35	SPR sepiapterin reductase [Source:HGNC Symbol;Acc:HGNC:112]
8	210402_at	1.83	-0.64	0.42	KCNJ1 potassium voltage-gated channel subfamily J member 1 [Source:HGNC Symbol;Acc:HGNC:7955]
9	219658_at	1.79	-0.81	0.21	PTCD2 pentatricopeptide repeat domain 2 [Source:HGNC Symbol;Acc:HGNC:10887]
10	221526_x_at	1.74	-0.59	0.3	PARD3 par-3 family cell polarity regulator [Source:HGNC Symbol;Acc:HGNC:10887]
11	203441_s_at	1.73	-0.91	0.33	CDH2 cadherin 2 [Source:HGNC Symbol;Acc:HGNC:1759]
12	219412_at	1.73	-0.59	0.41	RAB38 RAB38, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:10887]
13	201481_s_at	1.7	-1.17	0.33	PYGB glycogen phosphorylase B [Source:HGNC Symbol;Acc:HGNC:10887]
14	214481_at	1.7	-0.74	0.2	HIST1H2A histone cluster 1 H2A family member m [Source:HGNC Symbol;Acc:HGNC:10887]
15	219527_at	1.69	-0.63	0.32	MARC2 mitochondrial amidoxime reducing component 2 [Source:HGNC Symbol;Acc:HGNC:10887]
16	206876_at	1.68	-0.46	0.36	SIM1 single-minded family bHLH transcription factor 1 [Source:HGNC Symbol;Acc:HGNC:10887]
17	205464_at	1.66	-0.64	0.41	SCNN1B sodium channel epithelial 1 beta subunit [Source:HGNC Symbol;Acc:HGNC:10887]
18	211197_s_at	1.58	-1.07	0.27	LOC102723996
19	215184_at	1.54	-0.56	0.42	DAPK2 death associated protein kinase 2 [Source:HGNC Symbol;Acc:HGNC:10887]
20	220002_at	1.54	-0.88	0.36	KIF26B kinesin family member 26B [Source:HGNC Symbol;Acc:HGNC:10887]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-05	4 / 17	BP regulation of long-term neuronal synaptic plasticity
2	4e-05	25 / 1092	GSE/ YOSHIMURA_MAPK8_TARGETS_UP
3	2e-04	4 / 32	BP excretion
4	3e-04	6 / 92	Colon Marisa_CRC-cluster-h
5	4e-04	33 / 1894	Lymp/ HOPP_Poised_promoter
6	5e-04	3 / 17	MF inward rectifier potassium channel activity
7	6e-04	5 / 71	GSE/ NAKAYAMA_SOFT_TISSUE_TUMORS_PCA1_DN
8	7e-04	3 / 18	BP calcium-dependent cell-cell adhesion via plasma membrane cell adhesion
9	8e-04	47 / 3168	Lymp/ HOPP_Repressed
10	1e-03	3 / 21	BP potassium ion import
11	1e-03	7 / 164	Colon/ Lembcke_TCGA_meth_kmeans_B_Cluster4_DN
12	1e-03	7 / 165	MF calmodulin binding
13	1e-03	5 / 81	CC synaptic vesicle
14	1e-03	3 / 23	BP leukocyte cell-cell adhesion
15	1e-03	7 / 172	GSE/ DAVICIONI_MOLECULAR_ARMES_VS_ERMS_DN
16	2e-03	3 / 24	BP positive regulation of blood vessel diameter
17	2e-03	3 / 24	GSE/ REACTOME_INWARDLY_RECTIFYING_K_CHANNELS
18	2e-03	7 / 179	CC external side of plasma membrane
19	2e-03	8 / 231	CC apical plasma membrane
20	3e-03	2 / 8	GSE/ MCCOLLUM_GELDANAMYCIN_RESISTANCE_UP
21	3e-03	5 / 99	GSE/ REACTOME_CELL_CELL_COMMUNICATION
22	3e-03	4 / 63	GSE/ REACTOME_CELL_JUNCTION_ORGANIZATION
23	4e-03	3 / 33	GSE/ FIGUEROA_AML_METHYLATION_CLUSTER_5_DN
24	4e-03	2 / 10	BP magnesium ion transmembrane transport
25	4e-03	2 / 10	BP positive regulation of hormone secretion
26	4e-03	6 / 156	GSE/ GAUSSMANN_MLL_AF4_FUSION_TARGETS_G_UP
27	4e-03	10 / 385	GSE/ SATO_SILENCED_BY_METHYLATION_IN_PANCREATIC_CANCER_1
28	4e-03	4 / 68	Pneu/ Burnham_sep_vs_con_UP
29	5e-03	7 / 213	GSE/ SABATES_COLORECTAL_ADENOMA_DN
30	5e-03	2 / 11	MF magnesium ion transmembrane transporter activity
31	5e-03	2 / 11	BP regulation of fat cell differentiation
32	5e-03	3 / 36	GSE/ GNATENKO_PLATELET_SIGNATURE
33	5e-03	3 / 37	BP placenta development
34	6e-03	2 / 12	CC platelet alpha granule membrane
35	6e-03	2 / 12	CC trans-Golgi network transport vesicle
36	6e-03	2 / 12	GSE/ YAMASHITA_LIVER_CANCER_WITH_EPCAM_DN
37	6e-03	3 / 38	BP positive regulation of insulin secretion
38	6e-03	9 / 344	GSE/ MEISSNER_NPC_HCP_WITH_H3_UNMETHYLATED
39	6e-03	3 / 39	BP branching involved in ureteric bud morphogenesis
40	6e-03	7 / 225	BP ion transmembrane transport

Overview Map

Spot



Overexpression Spots

Spot Summary: H1

metagenes = 10
genes = 275

<r> metagenes = 0.98

<r> genes = 0.42

beta: r2= 8.99 / log p= -Inf

samples with spot = 37 (16.7 %)

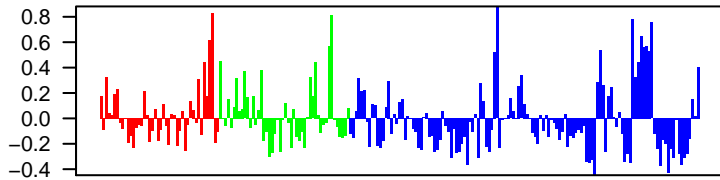
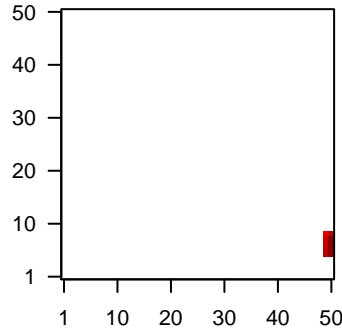
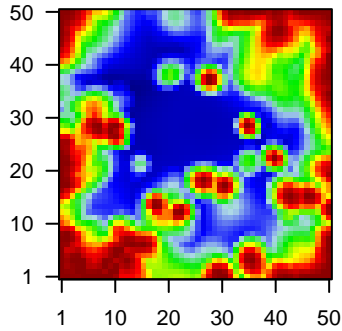
mBL : 7 (15.9 %)

intermediate : 8 (16.7 %)

non-mBL : 22 (17.1 %)

Overview Map

Spot

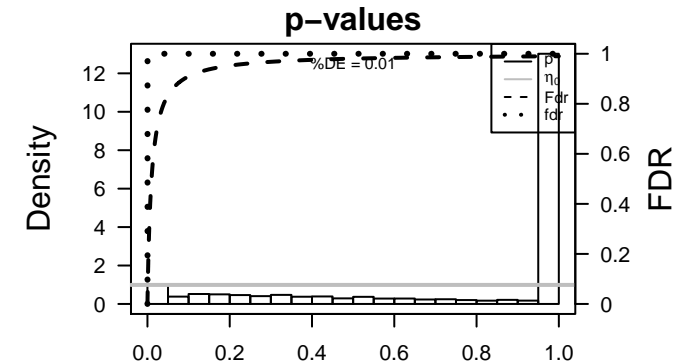


Spot Genelist

Rank	ID	max e	r	min e	Description Symbol
1	214753_at	2.14	-1.23	0.73	
2	207492_at	2.1	-1.01	0.76	
3	205316_at	2.09	-0.97	0.56	SLC15A2solute carrier family 15 member 2 [Source:HGNC Symbol;Acc:
4	220918_at	2.03	-0.81	0.79	
5	208268_at	1.89	-0.91	0.51	ADAM28 ADAM metallopeptidase domain 28 [Source:HGNC Symbol;A
6	208195_at	1.84	-1.07	0.36	TTN titin [Source:HGNC Symbol;Acc:HGNC:12403]
7	220940_at	1.83	-1.2	0.77	
8	215164_at	1.82	-1.12	0.57	
9	215768_at	1.81	-0.79	0.44	
10	217534_at	1.8	-0.88	0.75	FAM49B family with sequence similarity 49 member B [Source:HGNC :
11	216197_at	1.78	-0.87	0.77	
12	221616_s_at	1.78	-0.7	0.76	
13	222358_x_at	1.78	-0.81	0.83	
14	216614_at	1.77	-0.95	0.74	
15	220704_at	1.76	-1.2	0.8	IKZF1 IKAROS family zinc finger 1 [Source:HGNC Symbol;Acc:HG
16	210230_at	1.75	-1.07	0.63	
17	213089_at	1.75	-1.37	0.89	
18	215221_at	1.74	-0.82	0.62	
19	215599_at	1.73	-0.9	0.83	glucuronidase, beta pseudogene 3 [Source:HGNC Symbol;A
20	215024_at	1.72	-0.92	0.78	CCZ1 CCZ1 homolog, vacuolar protein trafficking and biogenesis as

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-25	31 / 218	Refer WIRTH_pre+post GC B-cells
2	1e-21	57 / 1174	Colon LaPointe_mucosa-position_kmeans_E_transverse colon_UP_transverse c
3	2e-19	25 / 188	Refer Chaussabel_3.8_Enzymes
4	3e-16	33 / 492	Colon LaPointe_mucosa-position_kmeans_C_cecum colon_ascending colon_tra
5	5e-15	14 / 59	Gliom WILLSCHER_GBM_Verhaak-PNwt & MES_up
6	2e-13	5 / 14	Canci LIU_COMMON_CANCER_GENES
7	2e-13	5 / 14	Canci LIU_COMMON_CANCER_GENES
8	5e-13	9 / 20	Refer Chaussabel_2.7_Unknown function
9	2e-12	93 / 4261	Lymp HOPP_Txn_transition
10	1e-11	16 / 143	GSE/ LEE_DIFFERENTIATING_T_LYMPHOCYTE
11	3e-10	14 / 127	GSE/ GINESTIER_BREAST_CANCER_20Q13_AMPLIFICATION_DN
12	3e-10	104 / 5529	Lymp HOPP_Txn_elongation
13	5e-10	7 / 17	GSE/ SPIRA_SMOKERS_LUNG_CANCER_DN
14	3e-09	12 / 102	Lymp ROSOLOWSKI_blue total
15	4e-09	7 / 22	Refer Chaussabel_1.6_Signaling molecules
16	4e-08	22 / 477	GSE/ NAKAMURA_TUMOR_ZONE_PERIPHERAL_VS_CENTRAL_DN
17	6e-08	30 / 852	MF nucleic acid binding
18	6e-07	11 / 136	GSE/ REACTOME_MRNA_PROCESSING
19	7e-07	29 / 906	Lymp SPANG_BCR_DN
20	1e-06	36 / 1312	GSE/ PUJANA_ATM_PCC_NETWORK
21	5e-06	38 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
22	8e-06	5 / 24	GSE/ XU_HGF_TARGETS_INDUCED_BY_AKT1_48HR_DN
23	8e-06	21 / 600	GSE/ RODRIGUES_THYROID_CARCIOMA_POORLY_DIFFERENTIATED_DN
24	1e-05	9 / 120	GSE/ REACTOME_PROCESSING_OF_CAPPED_INTRON_CONTAINING_PRE
25	1e-05	31 / 1161	MF RNA binding
26	1e-05	13 / 261	GSE/ WANG_LMO4_TARGETS_UP
27	1e-05	80 / 4579	CC nucleus
28	2e-05	23 / 730	GSE/ ONKEN_UVEAL_MELANOMA_UP
29	2e-05	11 / 198	BP mRNA splicing, via spliceosome
30	3e-05	13 / 281	BP mRNA processing
31	4e-05	8 / 106	Refer Chaussabel_2.11_Replication
32	4e-05	37 / 1602	GSE/ BLALOCK_ALZHEIMERS_DISEASE_UP
33	7e-05	16 / 445	GSE/ GAZDA_DIAMOND_BLACKFAN_ANEMIA_ERYTHROID_DN
34	8e-05	17 / 496	Refer PROTEINATLAS_spleen
35	8e-05	9 / 152	Refer VAQUERIZAS_General_TF
36	9e-05	3 / 8	Gliom WILLSCHER_GBM_LTSmut_proteomics-A_UP
37	9e-05	5 / 39	GSE/ BILBAN_B_CLL_LPL_DN
38	9e-05	7 / 90	BP RNA processing
39	1e-04	7 / 92	GSE/ REACTOME_MRNA_SPLICING
40	1e-04	7 / 92	GSE/ HOEBEKE_LYMPHOID_STEM_CELL_UP



Overexpression Spots

Spot Summary: I1

metagenes = 6
genes = 149

<r> metagenes = 0.98

<r> genes = 0.16

beta: r2= 1.84 / log p= -Inf

samples with spot = 18 (8.1 %)

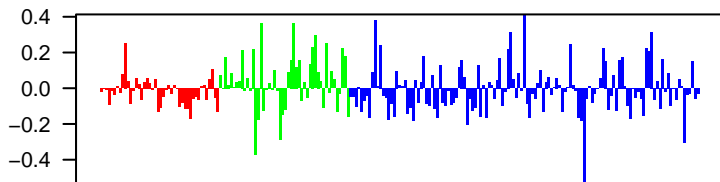
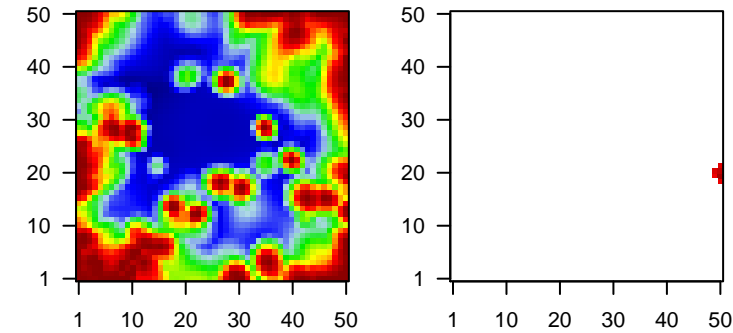
mBL : 1 (2.3 %)

intermediate : 8 (16.7 %)

non-mBL : 9 (7 %)

Overview Map

Spot

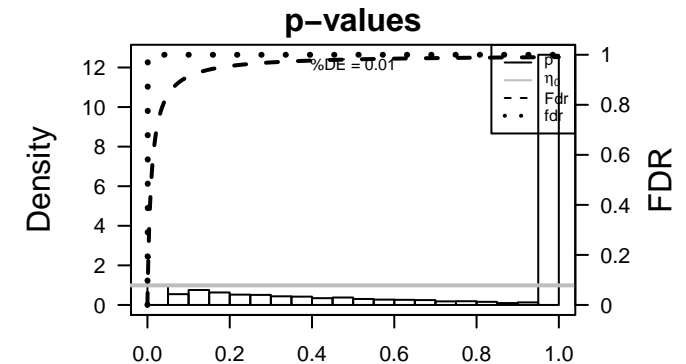


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	217469_at	2.61	-1.06	0.38	immunoglobulin heavy constant epsilon [Source:HGNC Synt
2	205593_s_at	2.17	-0.78	0.43	PDE9A phosphodiesterase 9A [Source:HGNC Symbol;Acc:HGNC:87
3	211010_s_at	2.09	-0.89	0.18	NCR3 natural cytotoxicity triggering receptor 3 [Source:HGNC Synt
4	218692_at	2.03	-1.04	0.38	SYBU syntabulin [Source:HGNC Symbol;Acc:HGNC:26011]
5	207819_s_at	1.84	-1.12	0.29	ABCB4 ATP binding cassette subfamily B member 4 [Source:HGNC S
6	209739_s_at	1.82	-1.43	0.36	PNPLA4 patatin like phospholipase domain containing 4 [Source:HGNC
7	219820_at	1.81	-0.83	0.51	SLC6A16 solute carrier family 6 member 16 [Source:HGNC Symbol;Acc
8	205551_at	1.79	-0.79	0.31	SV2B synaptic vesicle glycoprotein 2B [Source:HGNC Symbol;Acc:1
9	204465_s_at	1.68	-0.74	0.31	INA internexin neuronal intermediate filament protein alpha [Sourc
10	215967_s_at	1.63	-1.03	0.46	LY9 lymphocyte antigen 9 [Source:HGNC Symbol;Acc:HGNC:673
11	214772_at	1.61	-0.73	0.38	KIAA1549 KIAA1549 like [Source:HGNC Symbol;Acc:HGNC:24836]
12	205389_s_at	1.6	-0.71	0.47	ANK1 ankyrin 1 [Source:HGNC Symbol;Acc:HGNC:492]
13	210370_s_at	1.59	-0.95	0.49	LY9 lymphocyte antigen 9 [Source:HGNC Symbol;Acc:HGNC:673
14	212448_at	1.56	-1.11	0.31	NEDD4L neural precursor cell expressed, developmentally down-regul
15	209498_at	1.52	-1.4	0.36	CEACAM6 carcinoembryonic antigen related cell adhesion molecule 1 [S
16	209917_s_at	1.5	-1.09	0.42	TP53 target 1 (non-protein coding) [Source:HGNC Symbol;A
17	207087_x_at	1.47	-0.81	0.41	ANK1 ankyrin 1 [Source:HGNC Symbol;Acc:HGNC:492]
18	204530_s_at	1.47	-1.01	0.35	TOX thymocyte selection associated high mobility group box [Sour
19	214564_s_at	1.44	-0.79	0.38	PCDHGC9 protocadherin gamma subfamily C, 3 [Source:HGNC Symbol;
20	218144_s_at	1.42	-0.72	0.36	INF2 inverted formin, FH2 and WH2 domain containing [Source:HC

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-14	96 / 5404	Lymp HOPP_Strong_enhancer
2	7e-08	8 / 56	GSE# KLEIN_PRIMARY_EFFUSION_LYMPHOMA_DN
3	1e-07	6 / 24	Melar Tirosh_B-cell specific genes-melanoma
4	3e-07	7 / 45	Lymp Monti_BCR_cluster
5	4e-07	87 / 5908	Lymp HOPP_Active_promoter
6	6e-07	7 / 51	GSE# MORI_LARGE_PRE_BII_LYMPHOCYTE_DN
7	9e-07	6 / 34	Lymp TARTE_B-cell signature
8	9e-07	5 / 19	GSE# SHIN_B_CELL_LYMPHOMA_CLUSTER_9
9	1e-06	70 / 4357	Lymp HOPP_Weak_txn
10	1e-06	6 / 35	GSE# TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_DN
11	1e-06	17 / 429	GSE# SMID_BREAST_CANCER_NORMAL_LIKE_UP
12	3e-06	81 / 5529	Lymp HOPP_Txn_elongation
13	3e-06	6 / 42	Refer Chaussabel_1_3_B-cells
14	1e-05	12 / 263	Lymp SPANG_CD40 6hrs UP
15	3e-05	65 / 4261	Lymp HOPP_Txn_transition
16	3e-05	9 / 163	GSE# ZHENG_FOXP3_TARGETS_IN_THYMUS_UP
17	4e-05	18 / 621	BP negative regulation of transcription from RNA polymerase II promoter
18	4e-05	33 / 1636	TF ICGC_Bcl11_targets
19	5e-05	79 / 5682	Lymp HOPP_Weak_promoter
20	7e-05	26 / 1166	Color LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_cecum_colo
21	7e-05	13 / 368	GSE# ZHENG_BOUND_BY_FOXP3
22	9e-05	10 / 227	Lymp SPANG_IL21 UP
23	9e-05	10 / 229	GSE# QI_PLASMACYTOMA_UP
24	1e-04	3 / 10	BP respiratory burst
25	1e-04	30 / 1508	TF ICGC_Mef2_targets
26	1e-04	9 / 195	GSE# HOLLMANN_APOPTOSIS_VIA_CD40_UP
27	2e-04	5 / 52	GSE# SMIRNOV_RESPONSE_TO_IR_2HR_DN
28	2e-04	7 / 121	GSE# PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_DN
29	2e-04	30 / 1550	GSE# PILON_KLF1_TARGETS_DN
30	2e-04	16 / 589	Color Lembecke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
31	3e-04	5 / 59	GSE# PID_BCR_5PATHWAY
32	3e-04	5 / 61	GSE# BASSO_CD40_SIGNALING_DN
33	4e-04	6 / 96	Lymp SPANG_LPS 6hrs UP
34	4e-04	3 / 15	GSE# XU_RESPONSE_TO_TRETINOIN_UP
35	4e-04	10 / 275	GSE# HADDAD_B_LYMPHOCYTE_PROGENITOR
36	4e-04	4 / 36	GSE# NAKAYAMA_FRA2_TARGETS
37	4e-04	15 / 560	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
38	5e-04	21 / 955	Lymp SPANG_BCR UP
39	5e-04	3 / 16	Gliom VERHAAK_MES subtype
40	5e-04	17 / 694	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_UP



Overexpression Spots

Spot Summary: J1

metagenes = 10
genes = 110

<r> metagenes = 0.98
<r> genes = 0.14
beta: r2= 2.05 / log p= -Inf

samples with spot = 20 (9 %)
mBL : 1 (2.3 %)
intermediate : 4 (8.3 %)
non-mBL : 15 (11.6 %)

Spot Genelist

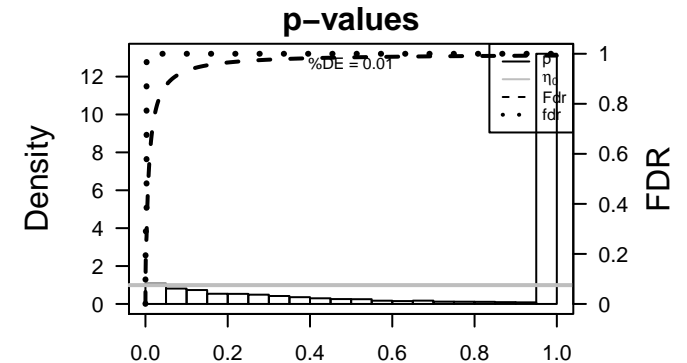
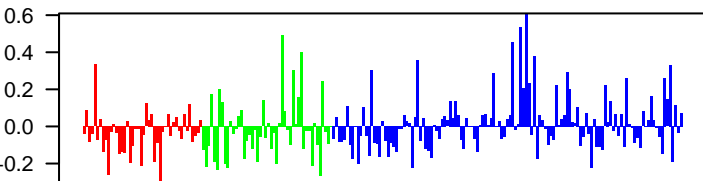
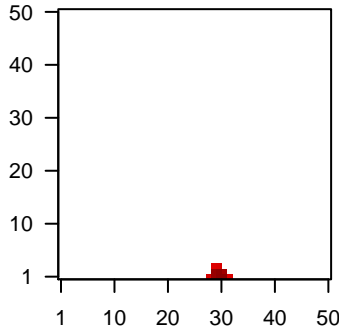
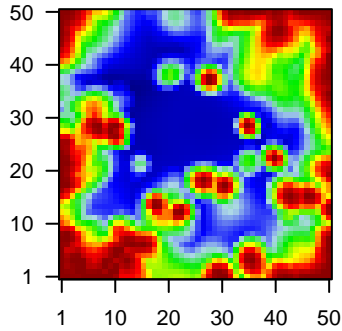
Rank	ID	max e	r	min e	Description
1	209988_s_at	3.22	-0.78	0.39	ASCL1 achaete-scute family bHLH transcription factor 1 [Source:HGNC]
2	219463_at	3.17	-0.88	0.48	LAMP5 lysosomal associated membrane protein family member 5 [Sc]
3	209987_s_at	2.71	-0.72	0.37	ASCL1 achaete-scute family bHLH transcription factor 1 [Source:HGNC]
4	215118_s_at	2.52	-1.42	0.27	
5	201525_at	2.5	-0.99	0.43	APOD apolipoprotein D [Source:HGNC Symbol;Acc:HGNC:612]
6	206759_at	2.49	-0.94	0.44	FCER2 Fc fragment of IgE receptor II [Source:HGNC Symbol;Acc:HGNC:612]
7	218613_at	2.4	-0.84	0.36	PSD3 pleckstrin and Sec7 domain containing 3 [Source:HGNC Syrr]
8	210763_x_at	2.4	-1.08	0.21	NCR3 natural cytotoxicity triggering receptor 3 [Source:HGNC Symt]
9	209695_at	2.28	-0.87	0.45	PTP4A3 protein tyrosine phosphatase type IVA, member 3 [Source:HC]
10	219168_s_at	2.19	-1.1	0.45	PRR5 proline rich 5 [Source:HGNC Symbol;Acc:HGNC:31682]
11	204040_at	2.15	-0.68	0.28	RNF144A ring finger protein 144A [Source:HGNC Symbol;Acc:HGNC:2]
12	210617_at	2.14	-1.06	0.35	PHEX phosphate regulating endopeptidase homolog X-linked [Sour]
13	206498_at	2.11	-0.99	0.27	OCA2 OCA2 melanosomal transmembrane protein [Source:HGNC s]
14	203355_s_at	1.96	-0.95	0.37	PSD3 pleckstrin and Sec7 domain containing 3 [Source:HGNC Syrr]
15	220146_at	1.89	-0.99	0.44	TLR7 toll like receptor 7 [Source:HGNC Symbol;Acc:HGNC:15631]
16	221880_s_at	1.86	-1.04	0.38	FAM174B family with sequence similarity 174 member B [Source:HGNC]
17	213348_at	1.84	-0.8	0.43	CDKN1C cyclin dependent kinase inhibitor 1C [Source:HGNC Symbol;]
18	219014_at	1.76	-1.51	0.45	PLAC8 placenta specific 8 [Source:HGNC Symbol;Acc:HGNC:19254]
19	221704_s_at	1.74	-0.99	0.47	VPS37B VPS37B, ESCRT-I subunit [Source:HGNC Symbol;Acc:HGNC]
20	210298_x_at	1.74	-0.9	0.45	FHL1 four and a half LIM domains 1 [Source:HGNC Symbol;Acc:HC]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-12	15 / 182	Refer WIRTH_post GC B-cells
2	2e-08	12 / 218	Refer WIRTH_pre+post GC B-cells
3	2e-05	17 / 785	GSE# GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_DN
4	2e-05	13 / 491	GSE# ENK_UV_RESPONSE_EPIDERMIS_DN
5	3e-05	16 / 741	GSE# PEREZ_TP53_TARGETS
6	9e-05	10 / 336	BP immune response
7	1e-04	38 / 3210	CC plasma membrane
8	1e-04	23 / 1508	TF ICGC_Mef2_targets
9	1e-04	54 / 5404	Lymp HOPP_Strong_enhancer
10	2e-04	24 / 1636	TF ICGC_Bcl11_targets
11	2e-04	6 / 121	GSE# PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_DN
12	2e-04	9 / 306	GSE# SANSOM_APC_TARGETS_DN
13	3e-04	3 / 19	BP regulation of protein binding
14	4e-04	5 / 92	BP Notch signaling pathway
15	4e-04	3 / 22	MF 14-3-3 protein binding
16	4e-04	3 / 22	BP positive regulation of NIK/NF-kappaB signaling
17	5e-04	3 / 23	BP membrane depolarization
18	5e-04	5 / 97	BP positive regulation of DNA binding transcription factor activity
19	5e-04	4 / 55	MF core promoter binding
20	6e-04	3 / 25	GSE# LU_TUMOR_ANGIOGENESIS_UP
21	7e-04	7 / 220	GSE# RUTELLA_RESPONSE_TO_HGF_DN
22	7e-04	9 / 361	BP intracellular signal transduction
23	8e-04	25 / 1941	TF ICGC_Bcl3_targets
24	8e-04	5 / 109	BP neuron differentiation
25	9e-04	3 / 28	BP ventricular septum morphogenesis
26	9e-04	5 / 111	GSE# QL_HYPOXIA
27	9e-04	2 / 7	GSE# SASAI_TARGETS_OF_CXCR6_AND_PTCH1_DN
28	1e-03	7 / 234	Lymp Hopp_Lymphoma_Epi1_no_zentr_6_MCL_DN
29	1e-03	4 / 66	GSE# CHIARETTI_ACUTE_LYMPHOBLASTIC_LEUKEMIA_ZAP70
30	1e-03	7 / 236	Melar Gerber_wt/wt_group3-specific
31	1e-03	3 / 31	Color Kosinski_lower-crypt-short-list
32	1e-03	16 / 1029	GSE# DODD_NASOPHARYNGEAL_CARCINOMA_UP
33	1e-03	5 / 121	GSE# HUANG_GATA2_TARGETS_UP
34	1e-03	38 / 3630	TF ICGC_Sp1_targets
35	1e-03	7 / 249	GSE# HUTTMANN_B CLL_POOR_SURVIVAL_UP
36	2e-03	3 / 35	GSE# PID_RET_PATHWAY
37	2e-03	3 / 35	GSE# ZHAN_MULTIPLE_MYELOMA_HP_DN
38	2e-03	4 / 76	GSE# GRADE_COLON_AND_RECTAL_CANCER_DN
39	2e-03	6 / 189	GSE# LINDGREN_BLADDER_CANCER_CLUSTER_3_DN
40	2e-03	5 / 129	GSE# ONDER_CDH1_TARGETS_1_UP

Overview Map

Spot



Overexpression Spots

Spot Summary: K1

metagenes = 7
genes = 88

<r> metagenes = 0.98
<r> genes = 0.18
beta: r2= 1.53 / log p= -Inf

samples with spot = 5 (2.3 %)
intermediate : 1 (2.1 %)
non-mBL : 4 (3.1 %)

Spot Genelist

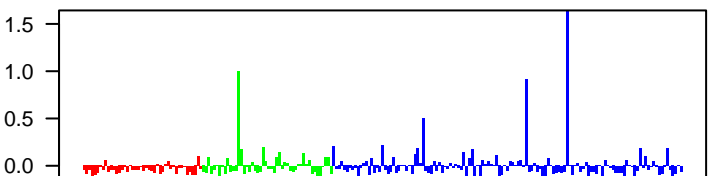
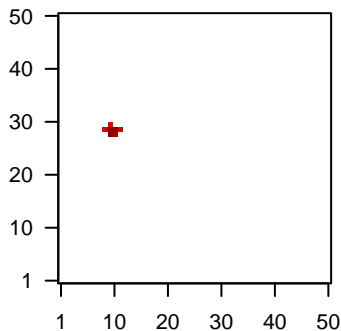
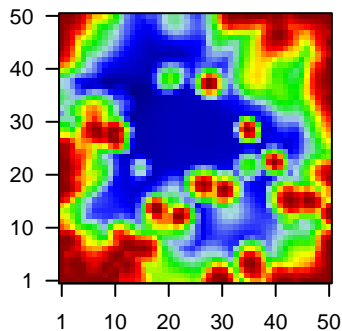
Rank	ID	max e	r	min e	Description
1	207663_x_at	3.8	-0.83	0.47	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:HGNC:17778]
2	206640_x_at	3.58	-0.65	0.45	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:HGNC:17778]
3	211425_x_at	3.5	-0.75	0.75	SSX family member 6, pseudogene [Source:HGNC Symbol;A
4	208235_x_at	3.42	-0.72	0.38	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:HGNC:17778]
5	207739_s_at	3.42	-1.01	0.45	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:HGNC:17778]
6	207086_x_at	3.38	-0.68	0.45	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:HGNC:17778]
7	208155_x_at	3.36	-0.82	0.45	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:HGNC:17778]
8	209942_x_at	3.13	-0.71	0.64	MAGEA3MAGE family member A3 [Source:HGNC Symbol;Acc:HGNC
9	210394_x_at	3.08	-0.76	0.72	SSX family member 6, pseudogene [Source:HGNC Symbol;A
10	207666_x_at	3	-0.6	0.67	SSX3 SSX family member 3 [Source:HGNC Symbol;Acc:HGNC:11
11	210497_x_at	3	-0.67	0.7	SSX3 SSX family member 3 [Source:HGNC Symbol;Acc:HGNC:11
12	214612_x_at	3	-0.72	0.65	MAGEA3MAGE family member A3 [Source:HGNC Symbol;Acc:HGNC
13	206626_x_at	2.85	-0.74	0.7	SSX1 SSX family member 1 [Source:HGNC Symbol;Acc:HGNC:11
14	207325_x_at	2.83	-0.79	0.66	MAGEA1MAGE family member A1 [Source:HGNC Symbol;Acc:HGNC
15	206574_s_at	2.79	-1.22	0.37	PTP4A3 protein tyrosine phosphatase type IVA, member 3 [Source:HC
16	206834_at	2.78	-0.67	0.51	HBD hemoglobin subunit delta [Source:HGNC Symbol;Acc:HGNC:
17	217339_x_at	2.78	-0.86	0.6	CTAG1A cancer/testis antigen 1A [Source:HGNC Symbol;Acc:HGNC:2
18	216471_x_at	2.77	-0.78	0.64	SSX3 SSX family member 3 [Source:HGNC Symbol;Acc:HGNC:11
19	220062_s_at	2.72	-0.8	0.41	MAGEC2MAGE family member C2 [Source:HGNC Symbol;Acc:HGNC
20	211674_x_at	2.72	-0.68	0.59	CTAG1A cancer/testis antigen 1A [Source:HGNC Symbol;Acc:HGNC:2

Geneset Overrepresentation

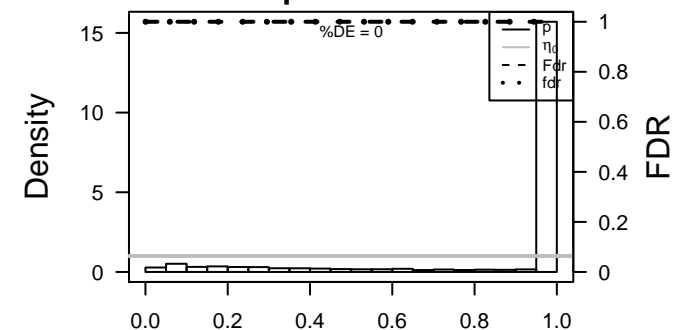
Rank	p-value	#in/all	Geneset
1	3e-09	17 / 556	Chr Chr X
2	1e-07	6 / 46	GSE# KLEIN_PRIMARY EFFUSION LYMPHOMA_UP
3	1e-06	10 / 262	GSE# HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_DN
4	5e-06	3 / 7	Immu Angelova_CRC_MSI-neoantigens
5	3e-05	6 / 115	GSE# YEGNASUBRAMANIAN_PROSTATE_CANCER
6	4e-05	3 / 13	Immu Angelova_CRC_MSS^neoantigens
7	4e-05	5 / 75	GSE# TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_UP
8	5e-05	3 / 14	GSE# MATTIOLI_MULTIPLE_MYELOMA_SUBGROUPS
9	5e-05	5 / 77	Lymp TARTE_Plasma cell signature
10	5e-05	8 / 255	GSE# HELLER_SILENCED_BY_METHYLATION_UP
11	8e-05	8 / 269	GSE# HELLER_HDAC_TARGETS_DN
12	2e-04	2 / 4	Immu Angelova_CRC_MSS-neoantigens
13	2e-04	3 / 22	GSE# SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_DN
14	3e-04	6 / 171	GSE# ZHONG_RESPONSE_TO_AZACITIDINE_AND_TSA_UP
15	6e-04	5 / 133	Refer JONGENEEL_Testis
16	7e-04	2 / 8	GSE# NIKOLSKY_BREAST_CANCER_17P11_AMPLICON
17	9e-04	3 / 36	GSE# MUELLER_METHYLATED_IN_GLIOMASTOMA
18	9e-04	3 / 36	GSE# MATTIOLI_MULTIPLE_MYELOMA_WITH_14Q32_TRANSLOCATIONS
19	9e-04	4 / 83	Melar TCGA_melanoma_immune_high
20	9e-04	3 / 37	BP positive regulation of interleukin-6 production
21	1e-03	3 / 42	BP negative regulation of nucleic acid-templated transcription
22	2e-03	8 / 424	GSE# HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_UP
23	2e-03	2 / 12	CC low-density lipoprotein particle
24	2e-03	3 / 50	BP response to unfolded protein
25	2e-03	3 / 50	GSE# YANG_BREAST_CANCER_ESR1_LASER_DN
26	2e-03	2 / 14	BP cellular protein catabolic process
27	3e-03	2 / 15	BP cellular response to interleukin-6
28	3e-03	2 / 15	GSE# MCGOWAN_RSP6_TARGETS_UP
29	3e-03	2 / 16	GSE# KEGG_STEROID_BIOSYNTHESIS
30	3e-03	2 / 17	BP positive regulation of ubiquitin-protein transferase activity
31	4e-03	7 / 385	GSE# SATO_SILENCED_BY_METHYLATION_IN_PANCREATIC_CANCER_1
32	4e-03	2 / 18	GSE# BOYALT_LIVER_CANCER_SUBCLASS_G6_DN
33	4e-03	7 / 387	GSE# LIAO_METASTASIS
34	4e-03	9 / 608	GSE# SMID_BREAST_CANCER_BASAL_UP
35	4e-03	2 / 19	BP low-density lipoprotein particle clearance
36	4e-03	4 / 127	GSE# BIDUS_METASTASIS_DN
37	5e-03	3 / 64	GSE# SHAFFER_IRF4_TARGETS_IN_PLASMA_CELL_VS_MATURE_B_LYMPH
38	5e-03	2 / 20	BP lipoprotein metabolic process
39	5e-03	2 / 20	GSE# HOFMANN_MYELODYSPLASTIC_SYNDROM_RISK_UP
40	6e-03	27 / 3270	CC integral component of membrane

Overview Map

Spot



p-values



Overexpression Spots

Spot Summary: L1

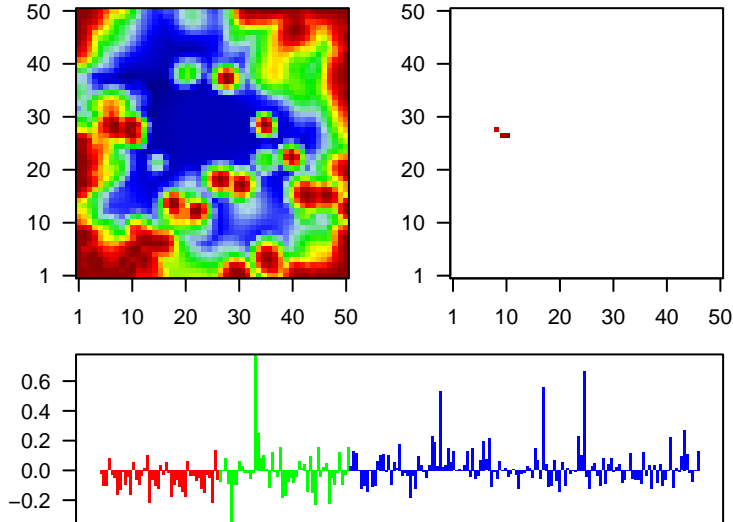
metagenes = 3
genes = 10

<r> metagenes = 0.98
<r> genes = 0.22
beta: r2= 1.55 / log p= -Inf

samples with spot = 10 (4.5 %)
intermediate : 2 (4.2 %)
non-mBL : 8 (6.2 %)

Overview Map

Spot

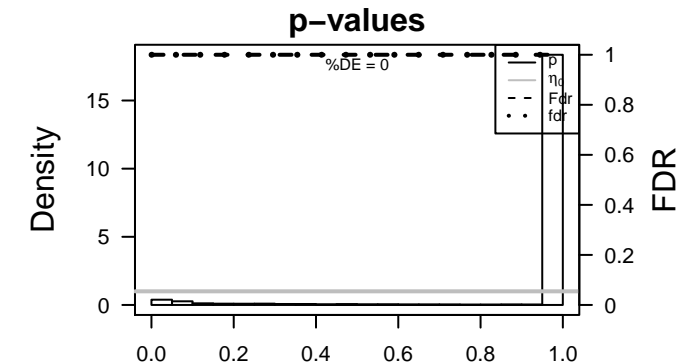


Spot Genelist

Rank	ID	max e	r	min e	Description
1	208586_s_at	2.01	-0.61	0.45	SSX4 SSX family member 4 [Source:HGNC Symbol;Acc:HGNC:11111]
2	211670_x_at	1.95	-0.64	0.57	SSX3 SSX family member 3 [Source:HGNC Symbol;Acc:HGNC:11112]
3	207794_at	1.43	-0.73	0.48	CCR2 C-C motif chemokine receptor 2 [Source:HGNC Symbol;Acc:HGNC:11113]
4	213763_at	1.4	-0.84	0.53	HIPK2 homeodomain interacting protein kinase 2 [Source:HGNC Symbol;Acc:HGNC:11114]
5	214151_s_at	1.36	-0.73	0.46	CCPG1 cell cycle progression 1 [Source:HGNC Symbol;Acc:HGNC:214151]
6	219435_at	0.88	-0.86	0.43	CTC1 CST telomere replication complex component 1 [Source:HGNC Symbol;Acc:HGNC:11115]
7	217927_at	0.75	-0.46	0.47	SPCS1 signal peptidase complex subunit 1 [Source:HGNC Symbol;Acc:HGNC:11116]
8	204129_at	0.63	-0.67	0.34	BCL9 B cell CLL/lymphoma 9 [Source:HGNC Symbol;Acc:HGNC:11117]
9	209744_x_at	0.62	-0.51	0.44	ITCH itchy E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:HGNC:11118]
10	208757_at	0.61	-0.56	0.43	TMED9 transmembrane p24 trafficking protein 9 [Source:HGNC Symbol;Acc:HGNC:11119]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-04	3 / 172	MF transcription corepressor activity
2	4e-04	2 / 42	BP negative regulation of nucleic acid-templated transcription
3	5e-04	3 / 216	GSE# PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_UP
4	7e-04	3 / 244	GSE# RIZKI_TUMOR_INVASIVENESS_3D_DN
5	9e-04	3 / 269	GSE# HELLER_HDAC_TARGETS_DN
6	1e-03	2 / 73	GSE# SU_TESTIS
7	2e-03	2 / 93	GSE# JUBAN_TARGETS_OF_SPH1_AND_FLI1_UP
8	4e-03	1 / 5	GSE# MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_1
9	5e-03	1 / 6	GSE# REACTOME_BETA_DEFENSINS
10	5e-03	1 / 6	GSE# CHESLER_BRAIN_QTL_TRANS
11	5e-03	1 / 7	GSE# KONDO_HYPOXIA
12	5e-03	1 / 7	GSE# ROETH_TERT_TARGETS_DN
13	6e-03	1 / 8	miRN hsa-miR-886-3p
14	6e-03	1 / 8	GSE# KRISHNAN_FURIN_TARGETS_DN
15	7e-03	2 / 171	GSE# ZHONG_RESPONSE_TO_AZACITIDINE_AND_TSA_UP
16	8e-03	1 / 10	MF G-rich strand telomeric DNA binding
17	8e-03	1 / 10	GSE# REACTOME_SYNTHESIS_SECRETION_AND_INACTIVATION_OF_GIP
18	8e-03	1 / 11	MF C-C chemokine receptor activity
19	8e-03	1 / 11	BP hematopoietic stem cell proliferation
20	8e-03	1 / 11	BP positive regulation of tumor necrosis factor biosynthetic process
21	8e-03	1 / 11	GSE# MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_24
22	8e-03	1 / 11	GSE# TIAN_BHLHA15_TARGETS
23	9e-03	1 / 12	BP embryonic camera-type eye morphogenesis
24	9e-03	1 / 12	BP negative regulation of protein ubiquitination involved in ubiquitin-dependent
25	9e-03	1 / 12	CC trans-Golgi network transport vesicle
26	9e-03	1 / 12	GSE# REACTOME_SYNTHESIS_SECRETION_AND_DEACYLATION_OF_GHR
27	1e-02	1 / 13	BP replicative senescence
28	1e-02	1 / 13	Immu Angelova_CRC_MSSA-neoantigens
29	1e-02	1 / 13	GSE# REACTOME_DEFENSINS
30	1e-02	1 / 14	BP dendritic cell chemotaxis
31	1e-02	1 / 14	BP positive regulation of interleukin-2 production
32	1e-02	1 / 14	BP positive regulation of monocyte chemotaxis
33	1e-02	1 / 14	GSE# REACTOME_SYNTHESIS_SECRETION_AND_INACTIVATION_OF_GLP1
34	1e-02	1 / 14	GSE# GAVIN_IL2_RESPONSIVE_FOXP3_TARGETS_UP
35	1e-02	1 / 15	BP negative regulation of telomere maintenance via telomerase
36	1e-02	1 / 15	MF ubiquitin-like protein ligase binding
37	1e-02	1 / 16	BP DNA damage response, signal transduction by p53 class mediator resulting
38	1e-02	1 / 16	BP retina layer formation
39	1e-02	1 / 16	BP signal peptide processing
40	1e-02	1 / 16	GSE# SUZUKI_AMPLIFIED_IN_ORAL_CANCER



Overexpression Spots

Spot Summary: M1

metagenes = 10
genes = 70

<r> metagenes = 0.97

<r> genes = 0.24

beta: r2= 2.24 / log p= -Inf

samples with spot = 25 (11.3 %)

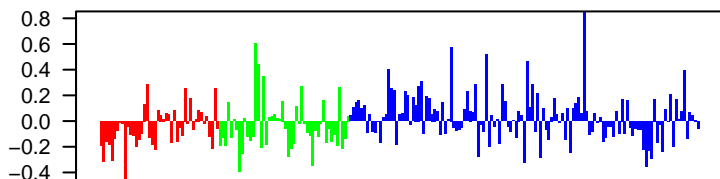
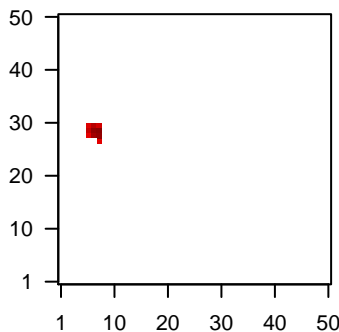
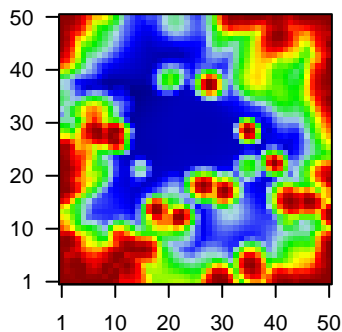
mBL : 3 (6.8 %)

intermediate : 5 (10.4 %)

non-mBL : 17 (13.2 %)

Overview Map

Spot

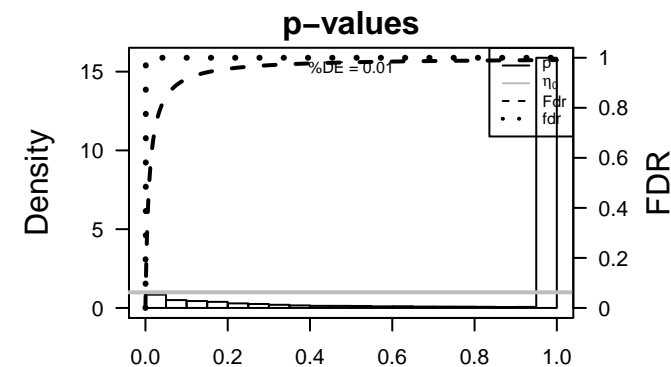


Spot Genelist

Rank	ID	max e	r	min e	Description
1	220377_at	2.84	-1.15	0.22	family with sequence similarity 30 member A [Source:HGNC]
2	206691_s_at	2.31	-0.7	0.35	PDIA2 protein disulfide isomerase family A member 2 [Source:HGNC]
3	217414_x_at	2.09	-2.18	0.66	HBA2 hemoglobin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC]
4	217192_s_at	1.98	-0.81	0.34	PRDM1 PR/SET domain 1 [Source:HGNC Symbol;Acc:HGNC:9346]
5	217232_x_at	1.87	-1.68	0.63	HBB hemoglobin subunit beta [Source:HGNC Symbol;Acc:HGNC]
6	209458_x_at	1.77	-1.81	0.66	HBA2 hemoglobin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC]
7	211699_x_at	1.76	-1.79	0.68	HBA2 hemoglobin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC]
8	209116_x_at	1.75	-1.74	0.64	HBB hemoglobin subunit beta [Source:HGNC Symbol;Acc:HGNC]
9	204018_x_at	1.74	-1.94	0.65	HBA2 hemoglobin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC]
10	39248_at	1.74	-1.59	0.36	AQP3 aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:HGNC]
11	211696_x_at	1.67	-1.34	0.62	HBB hemoglobin subunit beta [Source:HGNC Symbol;Acc:HGNC]
12	211745_x_at	1.66	-1.57	0.66	HBA2 hemoglobin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC]
13	208906_at	1.54	-0.94	0.29	BSCL2 BSCL2, seipin lipid droplet biogenesis associated [Source:HGNC]
14	202064_s_at	1.54	-0.89	0.45	SEL1L SEL1L ERAD E3 ligase adaptor subunit [Source:HGNC Symt]
15	214414_x_at	1.47	-1.7	0.65	HBA2 hemoglobin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC]
16	216450_x_at	1.45	-1.06	0.56	
17	208363_s_at	1.35	-0.64	0.4	INPP4A inositol polyphosphate-4-phosphatase type I A [Source:HGNC]
18	202843_at	1.34	-1.15	0.46	DNAJB9 DnaJ heat shock protein family (Hsp40) member B9 [Source:HGNC]
19	218681_s_at	1.27	-1.26	0.54	SDF2L1 stromal cell derived factor 2 like 1 [Source:HGNC Symbol;Acc:HGNC]
20	207542_s_at	1.25	-0.94	0.34	AQP1 aquaporin 1 (Colton blood group) [Source:HGNC Symbol;Acc:HGNC]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-19	30 / 1035	CC endoplasmic reticulum
2	6e-18	17 / 216	GSE/ PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_UP
3	1e-16	12 / 75	GSE/ TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_UP
4	2e-16	12 / 77	LympI TARTE_Plasma cell signature
5	5e-15	20 / 518	GSE/ MILL_PSEUDOPODIA_HAPTOTAXIS_DN
6	6e-15	22 / 683	CC endoplasmic reticulum membrane
7	4e-12	8 / 41	GSE/ MORI_PLASMA_CELL_UP
8	5e-11	13 / 273	GSE/ SHEDDEN_LUNG_CANCER_GOOD_SURVIVAL_A12
9	4e-10	8 / 71	BP response to endoplasmic reticulum stress
10	9e-08	8 / 140	BP protein folding
11	1e-07	9 / 198	GSE/ TIEN_INTESTINE_PROBIOTICS_24HR_DN
12	4e-07	4 / 16	MF protein disulfide isomerase activity
13	5e-07	9 / 241	CC endoplasmic reticulum lumen
14	7e-07	10 / 325	GSE/ REACTOME_METABOLISM_OF_PROTEINS
15	8e-07	6 / 79	CC integral component of endoplasmic reticulum membrane
16	1e-06	7 / 137	GSE/ REACTOME_POST_TRANSLATIONAL_PROTEIN_MODIFICATION
17	2e-06	6 / 95	MF isomerase activity
18	5e-06	18 / 1387	TF HEBENSTREIT_high expression TF
19	8e-06	5 / 68	GSE/ REACTOME_UNFOLDED_PROTEIN_RESPONSE
20	1e-05	5 / 71	GSE/ REACTOME_ASPARAGINE_N_LINKED_GLYCOSYLATION
21	1e-05	3 / 12	BP retrograde protein transport, ER to cytosol
22	2e-05	3 / 13	CC endocytic vesicle lumen
23	3e-05	5 / 88	GSE/ QI_PLASMACYTOMA_DN
24	4e-05	6 / 153	GSE/ CHIANG_LIVER_CANCER_SUBCLASS_UNANNOTATED_DN
25	4e-05	5 / 95	GSE/ HELLER_SILENCED_BY_METHYLATION_DN
26	4e-05	7 / 233	GSE/ BLUM_RESPONSE_TO_SALIRASIS_UP
27	6e-05	4 / 52	BP ubiquitin-dependent ERAD pathway
28	6e-05	6 / 169	GSE/ RODWELL_AGING_KIDNEY_NO_BLOOD_UP
29	7e-05	4 / 54	BP IRE1-mediated unfolded protein response
30	8e-05	5 / 110	GSE/ REACTOME_DIABETES_PATHWAYS
31	8e-05	4 / 57	BP cell redox homeostasis
32	9e-05	36 / 5339	CC membrane
33	1e-04	5 / 119	GSE/ YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_14
34	1e-04	38 / 5908	Lymp HOPP_Active_promoter
35	1e-04	4 / 64	GSE/ SHAFFER_IRF4_TARGETS_IN_PLASMA_CELL_VS_MATURE_B_LYMPH
36	1e-04	4 / 64	GSE/ SHAFFER_IRF4_TARGETS_IN_ACTIVATED_DENDRITIC_CELL
37	2e-04	8 / 384	GSE/ MILL_PSEUDOPODIA_CHEMOTAXIS_DN
38	2e-04	3 / 26	GSE/ CHOW_RASSF1_TARGETS_DN
39	2e-04	26 / 3270	CC integral component of membrane
40	2e-04	5 / 129	GSE/ WELCSH_BRCA1_TARGETS_DN



Overexpression Spots

Spot Summary: N1

metagenes = 13
genes = 298

<r> metagenes = 0.97

<r> genes = 0.42

beta: r2= 25.74 / log p= -Inf

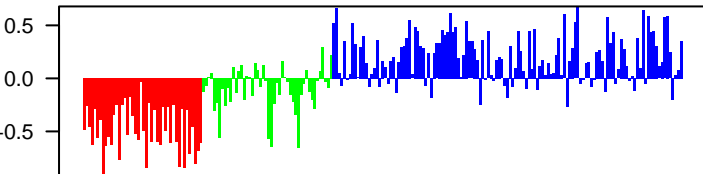
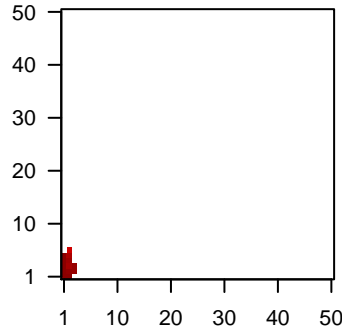
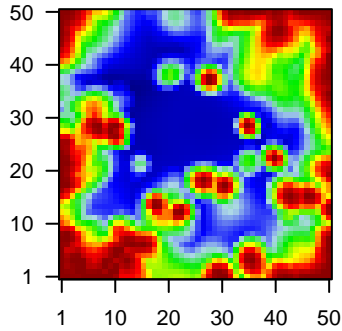
samples with spot = 63 (28.5 %)

intermediate : 2 (4.2 %)

non-mBL : 61 (47.3 %)

Overview Map

Spot

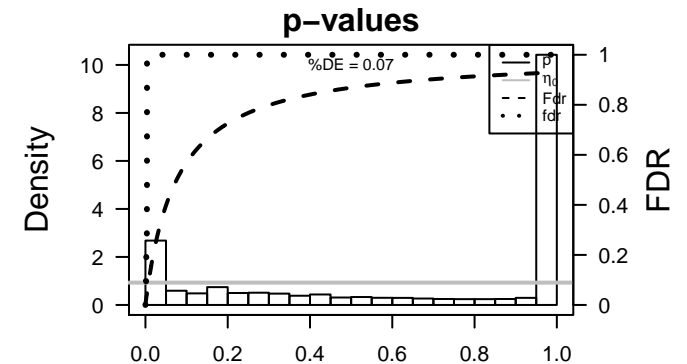


Spot Genelist

Rank	ID	max e	r	min e	Description
1	211644_x_at	2.59	-1.77	0.36	immunoglobulin kappa variable 3-20 [Source:HGNC Symbol;Acc:HGNC:1695]
2	221185_s_at	2.57	-1.49	0.55	IQCG IQ motif containing G [Source:HGNC Symbol;Acc:HGNC:252]
3	214551_s_at	2.53	-1.11	0.67	CD7 CD7 molecule [Source:HGNC Symbol;Acc:HGNC:1695]
4	208451_s_at	2.38	-1.57	0.64	C4A complement C4A (Rodgers blood group) [Source:HGNC Sym]
5	203535_at	2.34	-1.86	0.61	S100A9 S100 calcium binding protein A9 [Source:HGNC Symbol;Acc:HGNC:1695]
6	217022_s_at	2.33	-2.54	0.5	immunoglobulin heavy constant alpha 2 (A2m marker) [Sourc
7	205819_at	2.09	-0.95	0.53	MARCO macrophage receptor with collagenous structure [Source:HGI
8	202833_s_at	2.04	-2.04	0.77	SERPINA1 serpin family A member 1 [Source:HGNC Symbol;Acc:HGNC
9	212062_at	1.97	-1.07	0.48	ATP9A ATPase phospholipid transporting 9A (putative) [Source:HGN
10	202917_s_at	1.96	-1.75	0.64	S100A8 S100 calcium binding protein A8 [Source:HGNC Symbol;Acc:HGNC:1695]
11	214049_x_at	1.96	-1.08	0.64	CD7 CD7 molecule [Source:HGNC Symbol;Acc:HGNC:1695]
12	210116_at	1.95	-1.66	0.55	SH2D1A SH2 domain containing 1A [Source:HGNC Symbol;Acc:HGNC
13	207979_s_at	1.93	-1.42	0.46	CD8B CD8b molecule [Source:HGNC Symbol;Acc:HGNC:1707]
14	202274_at	1.93	-2	0.36	ACTG2 actin, gamma 2, smooth muscle, enteric [Source:HGNC Sym]
15	204787_at	1.89	-1.35	0.48	VSIG4 V-set and immunoglobulin domain containing 4 [Source:HGN
16	204006_s_at	1.87	-1.43	0.49	FCGR3A Fc fragment of IgG receptor IIIa [Source:HGNC Symbol;Acc:HGNC:1695]
17	205403_at	1.87	-1.01	0.51	IL1R2 interleukin 1 receptor type 2 [Source:HGNC Symbol;Acc:HGNC:1695]
18	206974_at	1.84	-1.08	0.7	CXCR6 C-X-C motif chemokine receptor 6 [Source:HGNC Symbol;A
19	206486_at	1.79	-1.26	0.66	LAG3 lymphocyte activating 3 [Source:HGNC Symbol;Acc:HGNC:6
20	210916_s_at	1.78	-1.66	0.71	CD44 CD44 molecule (Indian blood group) [Source:HGNC Symbol;A

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	6e-87	108 / 589	Colon Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_DN
2	3e-68	53 / 102	Refer WIRTH_EBV B-cells
3	9e-59	78 / 447	Gliom ScoV_0.999_Sturm_E4_Mesenchymal_RTK1_PDGFR_A_DN
4	1e-38	34 / 85	Lymp Sha_DLBC_LUP
5	3e-32	45 / 269	Gliom ScoV_0.5_Sturm_C3_Mesenchymal_DN
6	4e-31	39 / 194	GSE/ JAATINEN_HEMATOPOIETIC_STEM_CELL_DN
7	5e-31	29 / 83	Melar TCGA_melanoma_immune_high
8	3e-30	43 / 265	GSE/ WALLACE_PROSTATE_CANCER_RACE_UP
9	1e-28	35 / 166	HM HALLMARK_INTERFERON_GAMMA_RESPONSE
10	1e-27	38 / 223	GSE/ MCLACHLAN_DENTAL_CARIES_UP
11	6e-27	25 / 71	Melar Tirosh_Macrophage specific genes-melanoma
12	7e-27	51 / 480	Cancr Lembcke_Colonc Inflammation
13	1e-26	34 / 176	HM HALLMARK_ALLOGRAFT_REJECTION
14	8e-26	37 / 231	Gliom WILLSCHER_GBM_Verhaak-CL & MES_up
15	2e-25	23 / 62	Lymp Monti_Host_response_cluster
16	3e-25	47 / 431	BP immune system process
17	7e-24	22 / 62	GSE/ BROWNE_INTERFERON_RESPONSIVE_GENES
18	8e-24	39 / 299	GSE/ DEURIG_T_CELL_PROLYMPHOCTIC_LEUKEMIA_DN
19	2e-23	40 / 323	BP inflammatory response
20	8e-23	24 / 88	GSE/ WIELAND_UP_BY_HBV_INFECTION
21	8e-23	23 / 78	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_UP
22	2e-22	44 / 429	GSE/ SMID_BREAST_CANCER_NORMAL_LIKE_UP
23	3e-22	33 / 219	GSE/ MCLACHLAN_DENTAL_CARIES_DN
24	4e-22	17 / 33	Melar Tirosh_T-cell specific genes-melanoma
25	7e-22	38 / 317	Cancr SPANG_BCL6-index2
26	5e-21	39 / 355	Refer WIRTH_Immune system
27	6e-21	38 / 336	BP immune response
28	9e-21	34 / 261	GSE/ POOLA_INVASIVE_BREAST_CANCER_UP
29	5e-20	29 / 186	Cancr SPANG_LPS-index2
30	2e-19	34 / 288	Color Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
31	3e-19	37 / 354	GSE/ FULCHER_INFLAMMATORY_RESPONSE_LLECTIN_VS_LPS_DN
32	7e-19	21 / 87	GSE/ BOSCO_TH1_CYTOTOXIC_MODULE
33	8e-19	18 / 56	Pneu Burnham_sep_vs_con_DN
34	1e-18	20 / 78	Melar Tirosh_expression higher in CAFs than in T-cells
35	2e-18	43 / 516	GSE/ SMID_BREAST_CANCER_LUMINAL_B_DN
36	2e-18	30 / 229	GSE/ QI_PLASMACYTOMA_UP
37	4e-18	31 / 255	GSE/ HELLER_SILENCED_BY_METHYLATION_UP
38	5e-18	17 / 52	GSE/ SANA_RESPONSE_TO_IFNG_UP
39	8e-18	27 / 187	HM HALLMARK_INFLAMMATORY_RESPONSE
40	4e-17	18 / 68	Refer Chaussabel_2_1_Cytotoxic cells



Overexpression Spots

Spot Summary: O1

metagenes = 5
genes = 87

<r> metagenes = 0.99
<r> genes = 0.23
beta: r2= 1.83 / log p= -Inf

samples with spot = 6 (2.7 %)
mBL : 3 (6.8 %)
non-mBL : 3 (2.3 %)

Spot Genelist

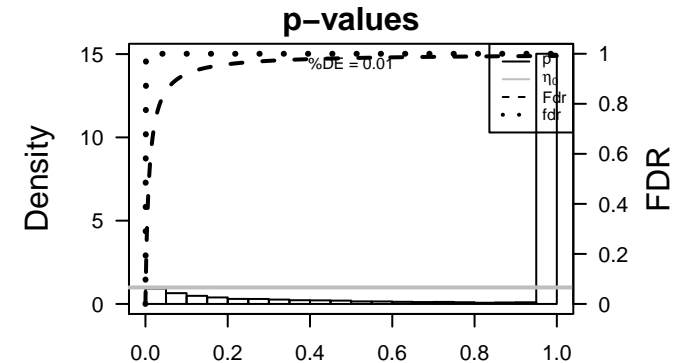
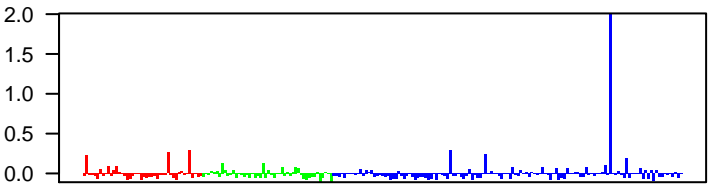
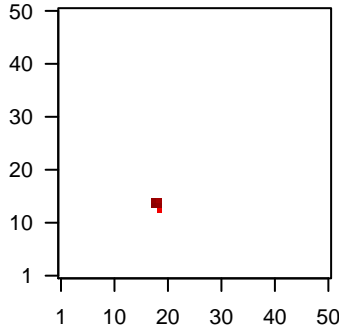
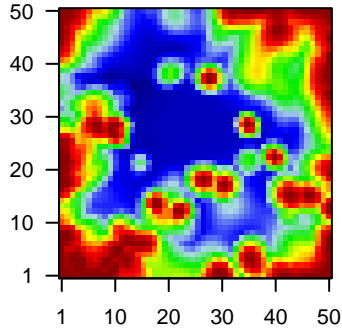
Rank	ID	max e	r	min e	Description
					Symbol
1	212768_s_at	3.21	-0.59	0.64	OLFM4 olfactomedin 4 [Source:HGNC Symbol;Acc:HGNC:17190]
2	203824_at	3.13	-0.55	0.68	TSPAN8 tetraspanin 8 [Source:HGNC Symbol;Acc:HGNC:11855]
3	210107_at	3.12	-1.18	0.64	CLCA1 chloride channel accessory 1 [Source:HGNC Symbol;Acc:HGNC:11855]
4	206199_at	2.96	-0.74	0.73	CEACAM7 carcinoembryonic antigen related cell adhesion molecule 7 [Source:HGNC Symbol;Acc:HGNC:11855]
5	204272_at	2.94	-0.65	0.69	LGALS4 galectin 4 [Source:HGNC Symbol;Acc:HGNC:6565]
6	206262_at	2.91	-0.55	0.7	ADH1C alcohol dehydrogenase 1C (class I), gamma polypeptide [Source:HGNC Symbol;Acc:HGNC:11855]
7	206143_at	2.89	-0.51	0.66	SLC26A3 solute carrier family 26 member 3 [Source:HGNC Symbol;Acc:HGNC:11855]
8	214142_at	2.86	-0.46	0.66	ZG16 zymogen granule protein 16 [Source:HGNC Symbol;Acc:HGNC:11855]
9	206198_s_at	2.82	-0.6	0.64	CEACAM7 carcinoembryonic antigen related cell adhesion molecule 7 [Source:HGNC Symbol;Acc:HGNC:11855]
10	209752_at	2.77	-0.58	0.7	REG1A regenerating family member 1 alpha [Source:HGNC Symbol;Acc:HGNC:11855]
11	205009_at	2.76	-0.89	0.37	TFF1 trefoil factor 1 [Source:HGNC Symbol;Acc:HGNC:11755]
12	209847_at	2.74	-0.64	0.54	CDH17 cadherin 17 [Source:HGNC Symbol;Acc:HGNC:1756]
13	213953_at	2.71	-0.64	0.68	KRT20 keratin 20 [Source:HGNC Symbol;Acc:HGNC:20412]
14	209173_at	2.66	-0.63	0.55	AGR2 anterior gradient 2, protein disulphide isomerase family member 2 [Source:HGNC Symbol;Acc:HGNC:11855]
15	211848_s_at	2.64	-0.56	0.6	CEACAM7 carcinoembryonic antigen related cell adhesion molecule 7 [Source:HGNC Symbol;Acc:HGNC:11855]
16	204213_at	2.64	-0.74	0.31	PIGR polymeric immunoglobulin receptor [Source:HGNC Symbol;Acc:HGNC:11855]
17	203240_at	2.57	-0.63	0.47	FCGBP Fc fragment of IgG binding protein [Source:HGNC Symbol;Acc:HGNC:11855]
18	206664_at	2.57	-0.63	0.66	SI sucrase-isomaltase [Source:HGNC Symbol;Acc:HGNC:1085]
19	204623_at	2.56	-0.76	0.57	TFF3 trefoil factor 3 [Source:HGNC Symbol;Acc:HGNC:11757]
20	212741_at	2.49	-0.63	0.57	MAOA monoamine oxidase A [Source:HGNC Symbol;Acc:HGNC:68]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	9e-25	39 / 883	Color LaPointe_mucosa-position_kmeans_L_transverse colon_cecum colon_DN
2	8e-18	15 / 92	Color Marisa_CRC-cluster-h
3	2e-15	13 / 82	Color Pentrack_CRC_TCGA_group.over_A_normal_UP
4	7e-14	20 / 376	Color Lembcke_TCGA-expr_kmeans_M_CIMP.H_DN
5	2e-12	20 / 448	Color Lembcke_TCGA_meth_kmeans_J_CIMP.H_DN
6	2e-12	19 / 397	Color Pentrack_CRC_TCGA_corr_C_normal_UP
7	2e-11	19 / 452	Color Lembcke_TCGA-expr_kmeans_L_CIMP.H_UP_Cluster4_DN
8	5e-11	27 / 1048	Refer PROTEINATLAS_rectum
9	2e-10	10 / 91	GSE/ VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_DN
10	2e-10	18 / 453	GSE/ ONDER_CDH1_TARGETS_2_DN
11	2e-10	26 / 1032	Refer PROTEINATLAS_small intestine
12	5e-10	26 / 1072	Refer PROTEINATLAS_duodenum
13	7e-10	13 / 218	GSE/ MCBRYAN_PUBERTAL_BREAST_4_5WK_UP
14	1e-09	12 / 182	GSE/ SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
15	2e-09	12 / 196	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP
16	1e-08	11 / 178	GSE/ WU_CELL_MIGRATION
17	1e-08	25 / 1161	Refer PROTEINATLAS_colon
18	1e-08	9 / 104	GSE/ DOANE_BREAST_CANCER_ESR1_UP
19	8e-08	21 / 905	Refer PROTEINATLAS_appendix
20	2e-07	28 / 1652	Gliom Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
21	3e-07	16 / 564	GSE/ GOZGIT_ESR1_TARGETS_DN
22	4e-07	17 / 657	GSE/ SMID_BREAST_CANCER_BASAL_DN
23	9e-07	3 / 4	GSE/ SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX6_DN
24	1e-06	9 / 174	GSE/ MCBRYAN_PUBERTAL_BREAST_3_4WK_UP
25	1e-06	21 / 1083	Color LaPointe_mucosa-position_kmeans_J_cecum colon_ascending colon_transverse colon_DN
26	2e-06	5 / 33	GSE/ LIU_CDX2_TARGETS_UP
27	2e-06	17 / 738	Color Lembcke_TCGA-expr_kmeans_N_CIMP.H_DN
28	2e-06	8 / 140	GSE/ RODRIGUES_NTN1_TARGETS_DN
29	2e-06	7 / 99	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_UP
30	3e-06	5 / 38	Color Marisa_CRC-cluster-e
31	5e-06	11 / 329	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_UP
32	5e-06	8 / 157	GSE/ SMID_BREAST_CANCER_LUMINAL_B_UP
33	5e-06	5 / 42	GSE/ WANG_BARRETTES_ESOPHAGUS_UP
34	6e-06	9 / 213	GSE/ SABATES_COLORECTAL_ADENOMA_DN
35	6e-06	7 / 115	GSE/ YEGNASUBRAMANIAN_PROSTATE_CANCER
36	8e-06	14 / 565	GSE/ LEE_BMP2_TARGETS_UP
37	1e-05	19 / 1029	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_UP
38	1e-05	30 / 2239	CC extracellular exosome
39	2e-05	4 / 25	GSE/ JI_METASTASIS_REPRESSED_BY_STK11
40	2e-05	37 / 3168	Lymp HOPP_Repressed

Overview Map

Spot



Overexpression Spots

Spot Summary: P1

metagenes = 10
genes = 153

<r> metagenes = 0.98
<r> genes = 0.13
beta: r2= 1.11 / log p= -Inf

samples with spot = 1 (0.5 %)
non-mBL : 1 (0.8 %)

Spot Genelist

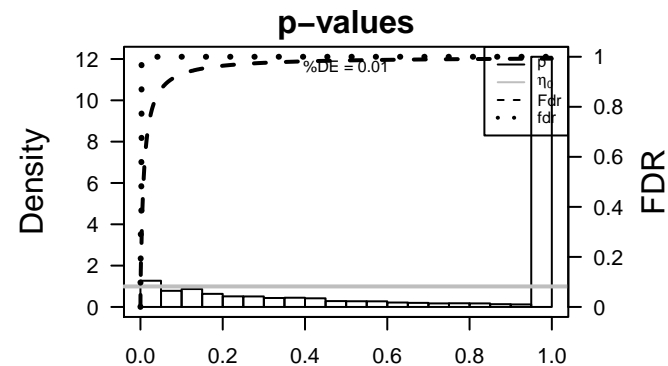
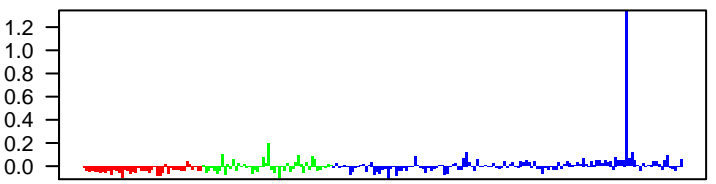
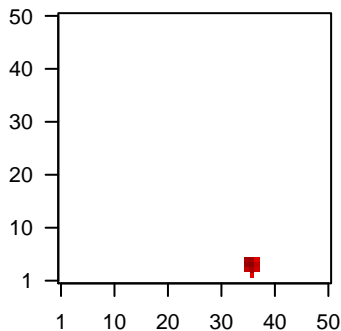
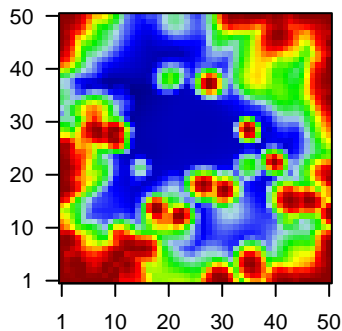
Rank	ID	max e	r	min e	Description
					Symbol
1	202768_at	2.75	-0.96	0.4	FOSB FosB proto-oncogene, AP-1 transcription factor subunit [Sou
2	218332_at	2.62	-0.7	0.29	BEX1 brain expressed X-linked 1 [Source:HGNC Symbol;Acc:HGNC
3	205767_at	2.62	-0.51	0.62	EREG epiregulin [Source:HGNC Symbol;Acc:HGNC:3443]
4	216248_s_at	2.32	-0.9	0.44	NR4A2 nuclear receptor subfamily 4 group A member 2 [Source:HGNC
5	204622_x_at	2.28	-0.78	0.44	NR4A2 nuclear receptor subfamily 4 group A member 2 [Source:HGNC
6	205051_s_at	2.19	-0.76	0.3	KIT KIT proto-oncogene receptor tyrosine kinase [Source:HGNC
7	203949_at	2.03	-0.73	0.36	MPO myeloperoxidase [Source:HGNC Symbol;Acc:HGNC:7218]
8	210426_x_at	2.01	-0.68	0.39	RORA RAR related orphan receptor A [Source:HGNC Symbol;Acc:HGNC
9	201465_s_at	1.99	-0.91	0.26	JUN Jun proto-oncogene, AP-1 transcription factor subunit [Source:HGNC
10	207857_at	1.99	-0.76	0.23	LILRA2 leukocyte immunoglobulin like receptor A2 [Source:HGNC Sy
11	210254_at	1.98	-0.67	0.51	MS4A3 membrane spanning 4-domains A3 [Source:HGNC Symbol;Acc:HGNC
12	60084_at	1.96	-0.57	0.51	CYLD CYLD lysine 63 deubiquitinase [Source:HGNC Symbol;Acc:HGNC
13	214651_s_at	1.95	-0.58	0.26	HOXA9 homeobox A9 [Source:HGNC Symbol;Acc:HGNC:5109]
14	222309_at	1.95	-0.89	0.3	
15	207723_s_at	1.94	-0.77	0.2	KLRC3 killer cell lectin like receptor C3 [Source:HGNC Symbol;Acc:HGNC
16	216015_s_at	1.9	-0.45	0.55	NLRP3 NLR family pyrin domain containing 3 [Source:HGNC Symbol
17	210123_s_at	1.88	-0.81	0.39	CHRFAM7A-AS1-1 RNA7 (exons 5-10) and FAM7A (exons A-E) fusion [Sour
18	209369_at	1.87	-0.57	0.42	ANXA3 annexin A3 [Source:HGNC Symbol;Acc:HGNC:541]
19	205239_at	1.86	-0.59	0.44	AREG amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]
20	202861_at	1.86	-0.88	0.3	PER1 period circadian regulator 1 [Source:HGNC Symbol;Acc:HGNC

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	8e-12	17 / 218	Refer WIRTH_pre+post GC B-cells
2	4e-09	11 / 112	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_DN
3	2e-07	12 / 204	Refer Chaussabel_3_2_Inflammation I
4	2e-06	8 / 93	Refer Chaussabel_1_4_Replication
5	3e-06	7 / 71	Pneu/ Burnham_cap_fp_vs_con_UP
6	8e-06	6 / 54	GSE/ NAGASHIMA_EGF_SIGNALING_UP
7	2e-05	5 / 36	Refer VAQUERIZAS_Prostate_TF
8	2e-05	5 / 36	GSE/ SHIPP_DLBCL_CURED_VS_FATAL_UP
9	3e-05	10 / 220	GSE/ RUTELLA_RESPONSE_TO_HGF_DN
10	3e-05	5 / 40	BP intracellular receptor signaling pathway
11	3e-05	6 / 68	Pneu/ Burnham_sep_vs_con_UP
12	3e-05	4 / 21	GSE/ ST_GA12_PATHWAY
13	3e-05	5 / 42	GSE/ AMIT_EGF_RESPONSE_60_HELA
14	6e-05	8 / 150	GSE/ TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_ERYTHROCYTE_UP
15	9e-05	8 / 160	GSE/ CASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_UP
16	9e-05	22 / 1029	GSE/ DODD_NASOPHARYNGEAL_CARINOMA_UP
17	1e-04	8 / 166	GSE/ NAGASHIMA_NRG1_SIGNALING_UP
18	1e-04	4 / 29	HM HALLMARK_NOTCH_SIGNALING
19	1e-04	8 / 169	GSE/ ZWANG_CLASS_3_TRANSIENTLY_INDUCED_BY_EGF
20	1e-04	5 / 57	Pneu/ Burnham_day1_vs_5_UP
21	1e-04	9 / 220	GSE/ OSWALD_HEMATOPOIETIC_STEM_CELL_IN_COLLAGEN_GEL_UP
22	2e-04	8 / 176	GSE/ TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_DN
23	2e-04	4 / 32	GSE/ AMIT_SERUM_RESPONSE_40_MCF10A
24	3e-04	12 / 407	GSE/ MITSIADES_RESPONSE_TO_APLIDIN_UP
25	3e-04	19 / 885	BP positive regulation of transcription from RNA polymerase II promoter
26	3e-04	8 / 190	HM HALLMARK_TNFA_SIGNALING_VIA_NFKB
27	3e-04	3 / 15	MF transcription coactivator binding
28	3e-04	4 / 37	GSE/ REACTOME_NUCLEAR_SIGNALING_BY_ERBB4
29	3e-04	8 / 194	GSE/ JAATINEN_HEMATOPOIETIC_STEM_CELL_DN
30	3e-04	45 / 3168	Lymp HOPP_Repressed
31	3e-04	3 / 16	GSE/ BIOCARTA_NKCELLS_PATHWAY
32	4e-04	4 / 39	MF nuclear receptor activity
33	4e-04	4 / 39	GSE/ ST_JNK_MAPK_PATHWAY
34	4e-04	4 / 40	GSE/ RIZ_ERYTHROID_DIFFERENTIATION_12HR
35	4e-04	3 / 17	Refer VAQUERIZAS_Pancreas_TF
36	5e-04	5 / 74	GSE/ RHEIN_ALL_GLUCCORTICOID_THERAPY_UP
37	5e-04	3 / 18	GSE/ TIAN_TNF_SIGNALING_NOT_VIA_NFKB
38	5e-04	4 / 42	BP response to cAMP
39	5e-04	8 / 209	GSE/ REACTOME_INNATE_IMMUNE_SYSTEM
40	6e-04	6 / 116	GSE/ KEGG_NEUROTROPHIN_SIGNALING_PATHWAY

Overview Map

Spot



Overexpression Spots

Spot Summary: Q1

metagenes = 19
genes = 381

<r> metagenes = 0.92
<r> genes = 0.31
beta: r2= 7.22 / log p= -Inf

samples with spot = 25 (11.3 %)
intermediate : 6 (12.5 %)
non-mBL : 19 (14.7 %)

Spot Genelist

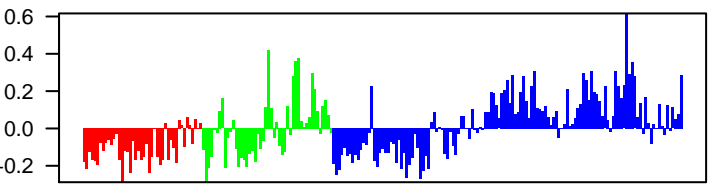
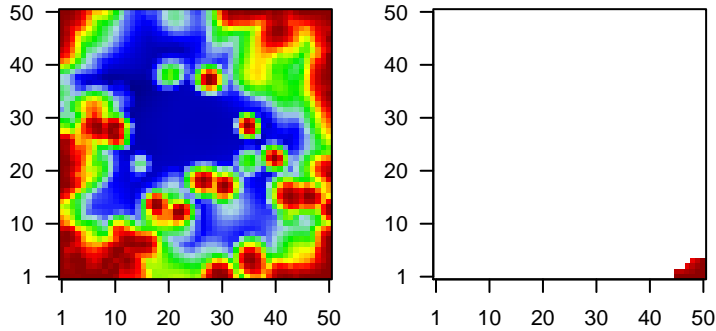
Rank	ID	max e	r	min e	Description
1	212236_x_at	2.22	-0.68	0.5	KRT17 keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]
2	209800_at	2.16	-0.6	0.49	KRT16 keratin 16 [Source:HGNC Symbol;Acc:HGNC:6423]
3	214532_x_at	2.06	-0.84	0.35	POU5F1 POU class 5 homeobox 1 [Source:HGNC Symbol;Acc:HGNC
4	202222_s_at	1.96	-0.73	0.57	DES desmin [Source:HGNC Symbol;Acc:HGNC:2770]
5	206760_s_at	1.74	-0.74	0.47	FCER2 Fc fragment of IgE receptor II [Source:HGNC Symbol;Acc:HC
6	214027_x_at	1.73	-0.87	0.52	DES desmin [Source:HGNC Symbol;Acc:HGNC:2770]
7	213936_x_at	1.69	-0.59	0.41	SFTPB surfactant protein B [Source:HGNC Symbol;Acc:HGNC:1080]
8	209957_s_at	1.66	-0.88	0.64	NPPA natriuretic peptide A [Source:HGNC Symbol;Acc:HGNC:7939]
9	205116_at	1.66	-0.71	0.48	LAMA2 laminin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:64
10	64408_s_at	1.59	-0.71	0.25	
11	207388_s_at	1.59	-1.07	0.51	PTGES prostaglandin E synthase [Source:HGNC Symbol;Acc:HGNC
12	222015_at	1.58	-0.94	0.37	CSNK1E casein kinase 1 epsilon [Source:HGNC Symbol;Acc:HGNC:2
13	204692_at	1.55	-0.85	0.5	SAP25 Sin3A associated protein 25 [Source:HGNC Symbol;Acc:HGNC
14	208607_s_at	1.55	-0.64	0.42	SAA2 serum amyloid A2 [Source:HGNC Symbol;Acc:HGNC:10514]
15	214403_x_at	1.53	-1.06	0.64	
16	207961_x_at	1.51	-1.16	0.51	MYH11 myosin heavy chain 11 [Source:HGNC Symbol;Acc:HGNC:75
17	210424_s_at	1.46	-1.02	0.35	GOLGA8 golgin A8 family member A [Source:HGNC Symbol;Acc:HGNC
18	202014_at	1.44	-0.67	0.4	PPP1R15 protein phosphatase 1 regulatory subunit 15A [Source:HGNC
19	213075_at	1.42	-0.99	0.36	OLFML2B olfactomedin like 2A [Source:HGNC Symbol;Acc:HGNC:2727]
20	219664_s_at	1.41	-0.91	0.28	DECR2 2,4-dienoyl-CoA reductase 2 [Source:HGNC Symbol;Acc:HC

Geneset Overrepresentation

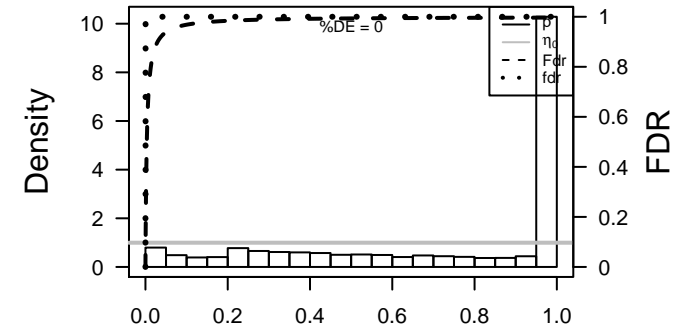
Rank	p-value	#in/all	Geneset
1	3e-15	38 / 358	GSE/ MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP
2	6e-12	16 / 72	GSE/ MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_UP
3	3e-06	19 / 239	GSE/ GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN
4	7e-06	28 / 483	Color Lemboke_TCGA-expr_kmeans_H_CIMP.H_UP_Cluster3_DN
5	1e-05	21 / 311	GSE/ SHEN_SMARCA2_TARGETS_DN
6	3e-05	62 / 1602	GSE/ BLALOCK_ALZHEIMERS_DISEASE_UP
7	3e-05	182 / 6368	Color LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
8	4e-05	5 / 18	GSE/ TIAN_TNF_SIGNALING_NOT_VIA_NFKB
9	5e-05	4 / 10	BP cerebellar Purkinje cell differentiation
10	5e-05	28 / 539	Color Lemboke_TCGA_meth_kmeans_L_CIMP.H_DN
11	6e-05	7 / 44	GSE/ PARENT_MTOR_SIGNALING_DN
12	2e-04	14 / 194	HM HALLMARK_MYOGENESIS
13	2e-04	5 / 24	GSE/ KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_LACTO_AND_NEOLAC
14	2e-04	9 / 88	GSE/ MIKKELSEN_ES_ICP_WITH_H3K4ME3_AND_H3K27ME3
15	3e-04	46 / 1174	Color LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse c
16	3e-04	8 / 73	GSE/ NIKOLSKY_BREAST_CANCER_16P13_AMPLICON
17	3e-04	19 / 333	Chr Chr 22
18	3e-04	5 / 26	GSE/ CHO_NR4A1_TARGETS
19	3e-04	8 / 75	GSE/ LAIHO_COLORECTAL_CANCER_SERRATED_DN
20	4e-04	3 / 7	Gliom Sturm_GBM_Meth_overexpression_C_G34_UP
21	4e-04	26 / 548	Chr Chr 16
22	4e-04	17 / 290	GSE/ ODONNELL_TFRC_TARGETS_UP
23	7e-04	5 / 31	GSE/ REACTOME_O_LINKED_GLYCOSYLATION_OF_MUCINS
24	8e-04	9 / 106	GSE/ SENGUPTA_EBNA1_ANTICORRELATED
25	8e-04	21 / 421	Gliom Down_b
26	1e-03	11 / 163	MF transferase activity, transferring glycosyl groups
27	1e-03	8 / 94	GSE/ KIM_GASTRIC_CANCER_CHEMOSENSITIVITY
28	2e-03	33 / 833	BP multicellular organism development
29	2e-03	3 / 11	MF platelet-derived growth factor binding
30	2e-03	23 / 512	GSE/ WEST_ADRENOCORTICAL_TUMOR_DN
31	2e-03	6 / 57	GSE/ PID_HDAC_CLASSII_PATHWAY
32	2e-03	12 / 198	GSE/ EBAUER_TARGETS_OF_PAX3_FOXO1_FUSION_UP
33	2e-03	33 / 848	Color LaPointe_mucosa-position_kmeans_O_transverse_colon_UP_
34	2e-03	3 / 12	BP regulation of embryonic development
35	2e-03	4 / 25	BP positive regulation of mitotic nuclear division
36	2e-03	9 / 125	BP protein glycosylation
37	3e-03	5 / 42	BP histone deacetylation
38	3e-03	5 / 42	GSE/ RASHI_RESPONSE_TO_IONIZING_RADIATION_3
39	3e-03	4 / 26	BP neural crest cell migration
40	3e-03	3 / 13	MF NAD+ binding

Overview Map

Spot



p-values



Overexpression Spots

Spot Summary: R1

metagenes = 8
genes = 73

<r> metagenes = 0.99
<r> genes = 0.42
beta: r2= 18.04 / log p= -Inf

samples with spot = 62 (28.1 %)
intermediate : 2 (4.2 %)
non-mBL : 60 (46.5 %)

Spot Genelist

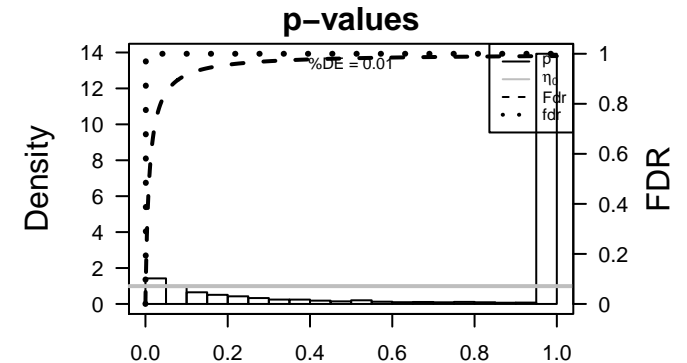
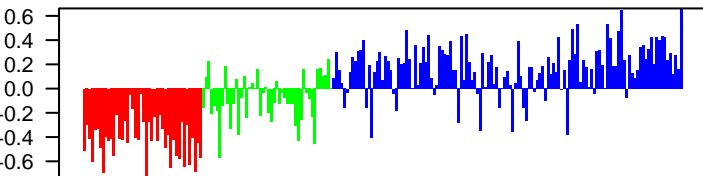
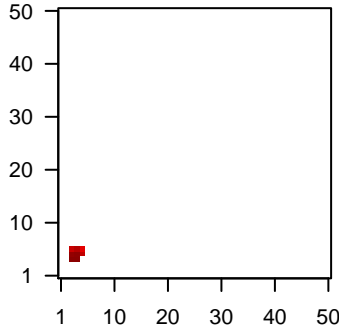
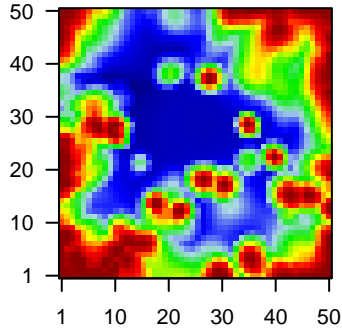
Rank	ID	max e	r	min e	Description
1	217002_s_at	2.74	-1.28	0.49	HTR3A 5-hydroxytryptamine receptor 3A [Source:HGNC Symbol;Acc:HGNC:118]
2	216615_s_at	2.49	-1.56	0.57	HTR3A 5-hydroxytryptamine receptor 3A [Source:HGNC Symbol;Acc:HGNC:118]
3	207113_s_at	1.77	-1.49	0.66	TNF tumor necrosis factor [Source:HGNC Symbol;Acc:HGNC:118]
4	214508_x_at	1.59	-1.16	0.52	CREM cAMP responsive element modulator [Source:HGNC Symbol;Acc:HGNC:118]
5	206975_at	1.59	-1.2	0.64	LTA lymphotoxin alpha [Source:HGNC Symbol;Acc:HGNC:6709]
6	210184_at	1.59	-0.83	0.6	ITGAX integrin subunit alpha X [Source:HGNC Symbol;Acc:HGNC:6709]
7	221211_s_at	1.42	-1.4	0.59	MAP3K7 C-terminal like [Source:HGNC Symbol;Acc:HGNC:6709]
8	217897_at	1.39	-1.06	0.62	FXVD6 FXVD domain containing ion transport regulator 6 [Source:HGNC Symbol;Acc:HGNC:6709]
9	209683_at	1.33	-1.18	0.57	FAM49A family with sequence similarity 49 member A [Source:HGNC Symbol;Acc:HGNC:6709]
10	208322_s_at	1.33	-1.19	0.59	ST3GAL3 beta-galactoside alpha-2,3-sialyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:6709]
11	212960_at	1.3	-1.05	0.43	TBC1D9 TBC1 domain family member 9 [Source:HGNC Symbol;Acc:HGNC:6709]
12	204385_at	1.29	-0.89	0.56	KYNU kynureninase [Source:HGNC Symbol;Acc:HGNC:6469]
13	208763_s_at	1.28	-1.75	0.54	TSC22D3 TSC22 domain family member 3 [Source:HGNC Symbol;Acc:HGNC:6709]
14	208092_s_at	1.27	-1.29	0.58	FAM49A family with sequence similarity 49 member A [Source:HGNC Symbol;Acc:HGNC:6709]
15	206295_at	1.23	-1.51	0.82	IL18 interleukin 18 [Source:HGNC Symbol;Acc:HGNC:5986]
16	203665_at	1.2	-1.5	0.45	HMOX1 heme oxygenase 1 [Source:HGNC Symbol;Acc:HGNC:5013]
17	204249_s_at	1.19	-1.43	0.79	LMO2 LIM domain only 2 [Source:HGNC Symbol;Acc:HGNC:6642]
18	220423_at	1.18	-2.1	0.76	PLA2G2D phospholipase A2 group IID [Source:HGNC Symbol;Acc:HGNC:6709]
19	219013_at	1.15	-1.46	0.55	GALNT1 polypeptide N-acetylgalactosaminyltransferase 11 [Source:HGNC Symbol;Acc:HGNC:6709]
20	201301_s_at	1.15	-1.55	0.76	ANXA4 annexin A4 [Source:HGNC Symbol;Acc:HGNC:542]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-11	12 / 186	Cancer SPANG_LPS-index2
2	1e-09	13 / 317	Cancer SPANG_BCL6-index2
3	4e-09	8 / 85	Lymphoid Sha_DLBCL_UP
4	2e-08	14 / 480	Cancer Lembcke_Colonc Inflammation
5	4e-08	15 / 589	Colon Lembcke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
6	9e-08	9 / 176	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
7	1e-07	10 / 242	Gliom ScoV_0.5_Sturm_C1_IDH_DN
8	2e-07	12 / 404	GSE/ RUTELLA_RESPONSE_TO_HGF_UP
9	2e-07	9 / 198	Refer Chaussabel_3_3_Inflammation II
10	5e-07	11 / 354	GSE/ FULCHER_INFLAMMATORY_RESPONSE_LECTIN_VS_LPS_DN
11	8e-07	9 / 229	GSE/ QI_PLASMACYTOMA_UP
12	1e-06	8 / 173	Lymph Victoria_Light zone signature
13	1e-06	11 / 386	GSE/ RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP
14	2e-06	9 / 251	GSE/ DAVICIONI_TARGETS_OF_PAX_FOXP1_FUSIONS_UP
15	2e-06	8 / 190	HM HALLMARK_TNFA_SIGNALING_VIA_NFKB
16	2e-06	10 / 335	GSE/ SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
17	3e-06	6 / 90	GSE/ BASSO_CD40_SIGNALING_UP
18	4e-06	10 / 353	Lymph SPANG_CD40_6hrs_DN
19	5e-06	11 / 447	Gliom ScoV_0.999_Sturm_E4_Mesenchymal_RTK_I_PDGFR_A_DN
20	7e-06	12 / 565	GSE/ LEE_BMP2_TARGETS_UP
21	9e-06	5 / 62	GSE/ LINDSTEDT_DENDRITIC_CELL_MATURATION_A
22	1e-05	4 / 30	BP negative regulation of extrinsic apoptotic signaling pathway via death domain receptors
23	1e-05	5 / 67	GSE/ O'DONNELL_TARGETS_OF_MYC_AND_TFR3_UP
24	1e-05	5 / 67	GSE/ VANLOO_SP3_TARGETS_DN
25	1e-05	8 / 246	Gliom ScoV_0.001_Sturm_M1_IDH_RTK_I_PDGFR_A_DN
26	2e-05	10 / 422	GSE/ DELYS_THYROID_CANCER_UP
27	2e-05	8 / 255	GSE/ HELLER_SILENCED_BY_METHYLATION_UP
28	3e-05	9 / 348	GSE/ MARTENS_BOUND_BY_PML_RARA_FUSION
29	3e-05	9 / 353	GSE/ JOHNSTONE_PARVB_TARGETS_3_UP
30	4e-05	3 / 15	BP regulation of extrinsic apoptotic signaling pathway via death domain receptors
31	4e-05	10 / 462	CC cell surface
32	4e-05	14 / 902	GSE/ CHEN_METABOLIC_SYNDROM_NETWORK
33	4e-05	11 / 564	GSE/ GOZGIT_ESR1_TARGETS_DN
34	5e-05	8 / 290	GSE/ O'DONNELL_TFR3_TARGETS_UP
35	5e-05	7 / 212	GSE/ KIM_WT1_TARGETS_UP
36	5e-05	7 / 213	Lymph SPANG_IL21_DN
37	5e-05	7 / 214	Lymph LENZ_Stromal signature 1
38	8e-05	5 / 97	GSE/ KOBAYASHI_EGFR_SIGNALING_24HR_UP
39	1e-04	8 / 324	GSE/ FOSTER_TOLERANT_MACROPHAGE_DN
40	1e-04	5 / 104	GSE/ ALTEMEIER_RESPONSE_TO_LPS_WITH_MECHANICAL_VENTILATION

Overview Map

Spot



Aging

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing various aging-related gene sets like HORVATH_aging_genes_meth_DOWN and TSCHELDORFF_age_hypermethylated.

CC

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing cell cycle related gene sets like cell surface, extracellular exosome, and extracellular region.

Colon Cancer

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing colon cancer related gene sets like Lemcke_TCGA_expr_kmeans_E_CIMP_H_UP_Cluster4_DN and LaPointe_mucosa-position_kmeans_C_ascending_colon_UP_ti.

LM

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing lipid metabolism related gene sets like HALLMARK_TNFA_SIGNALING_VIA_NFKB and HALLMARK_APOPTOSIS.

Lymphoma

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing lymphoma related gene sets like Sha_DLCLBCL_UP and Victora_Light_zone_signature.

mikRNA target

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing miRNA target gene sets like hsa-miR-647 and hsa-miR-769-3p.

Telomeres

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing telomere related gene sets like Alternative lengthening of telomeres and Nabetani_all_ten_telomeres_genes_ko.

BP

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing BP related gene sets like negative regulation of extrinsic apoptotic signaling pathway via death domain and regulation of extrinsic apoptotic signaling pathway via death domain receptors.

Chr

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing chromosome related gene sets like Chr 8, Chr 11, Chr 4, etc.

Glioma

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing glioma related gene sets like Scov_0.5_Sturm_C1_IDH_DN and Scov_0.999_Sturm_E4_Mesenchymal_RTK_I_PDGFRFA_DN.

Immunome

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing immunome related gene sets like Angelova_immune-metagenes-TGD and Angelova_immune-metagenes-DC.

Melanoma

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing melanoma related gene sets like Tirosh_Macrophage_specific_genes-melanoma and Tirosh_genes_from_CD8_T_cells_in_Mel79-melanoma.

Pneumonia

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing pneumonia related gene sets like Scicluna_UP and Sweeney_viral_dn.

TF

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing transcription factor related gene sets like ICGC_BatfPcr1_targets and ICGC_Runx3_targets.

Cancer

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing cancer related gene sets like SPANG_LPS-index2 and SPANG_BCL6_index2.

Chromatin states

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing chromatin states related gene sets like Chr 1, Chr 2, Chr 3, etc.

GSEA C2

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing GSEA C2 related gene sets like PICCALOVA_ANGLEIMMUNOBLASTIC_LYMPHOMA_UP and RUTELLA_RESPONSE_TO_HGF_UP.

Lifestyle

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing lifestyle related gene sets like DUMEAUX_Women_normal_BMI_literature_genes_up and Huan_blood-pressure_DBP-signature.

MF

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing MF related gene sets like Tirosh_Macrophage_specific_genes-melanoma and Tirosh_genes_from_CD8_T_cells_in_Mel79-melanoma.

Reference Signatures

Table with 4 columns: Rank, p-value, #in/all, Geneset. Rows 1-15 showing reference signatures related gene sets like Chaussabel_3.3_Inflammation_II and Chaussabel_1.5_Myeloid_lineage.