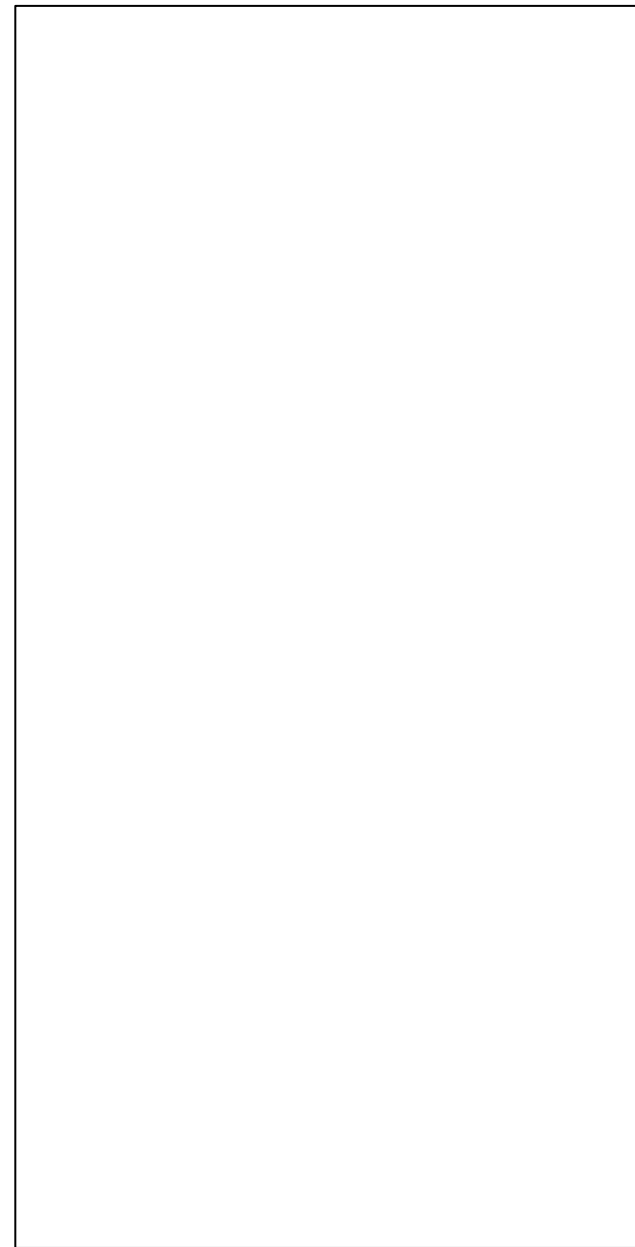
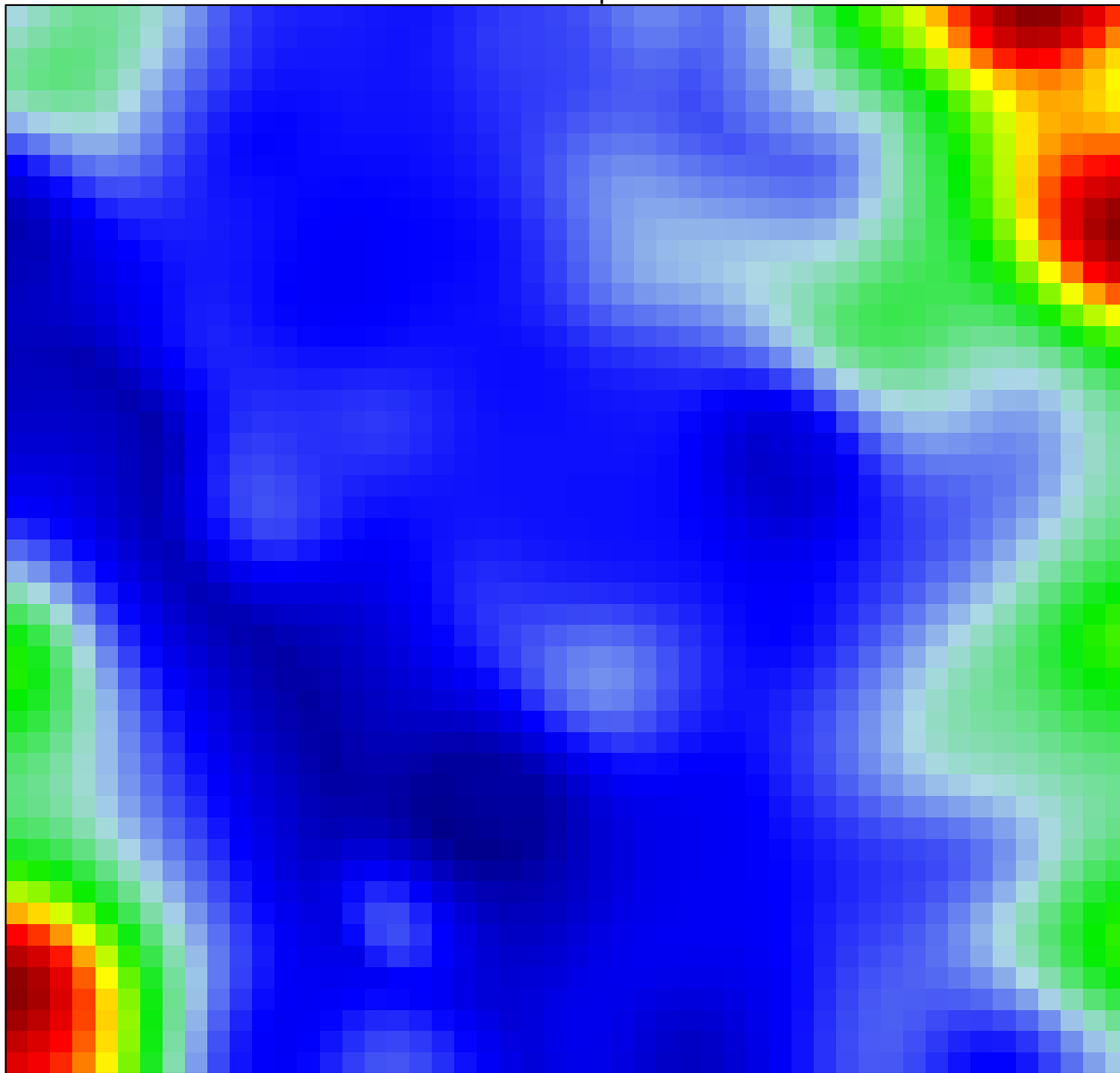


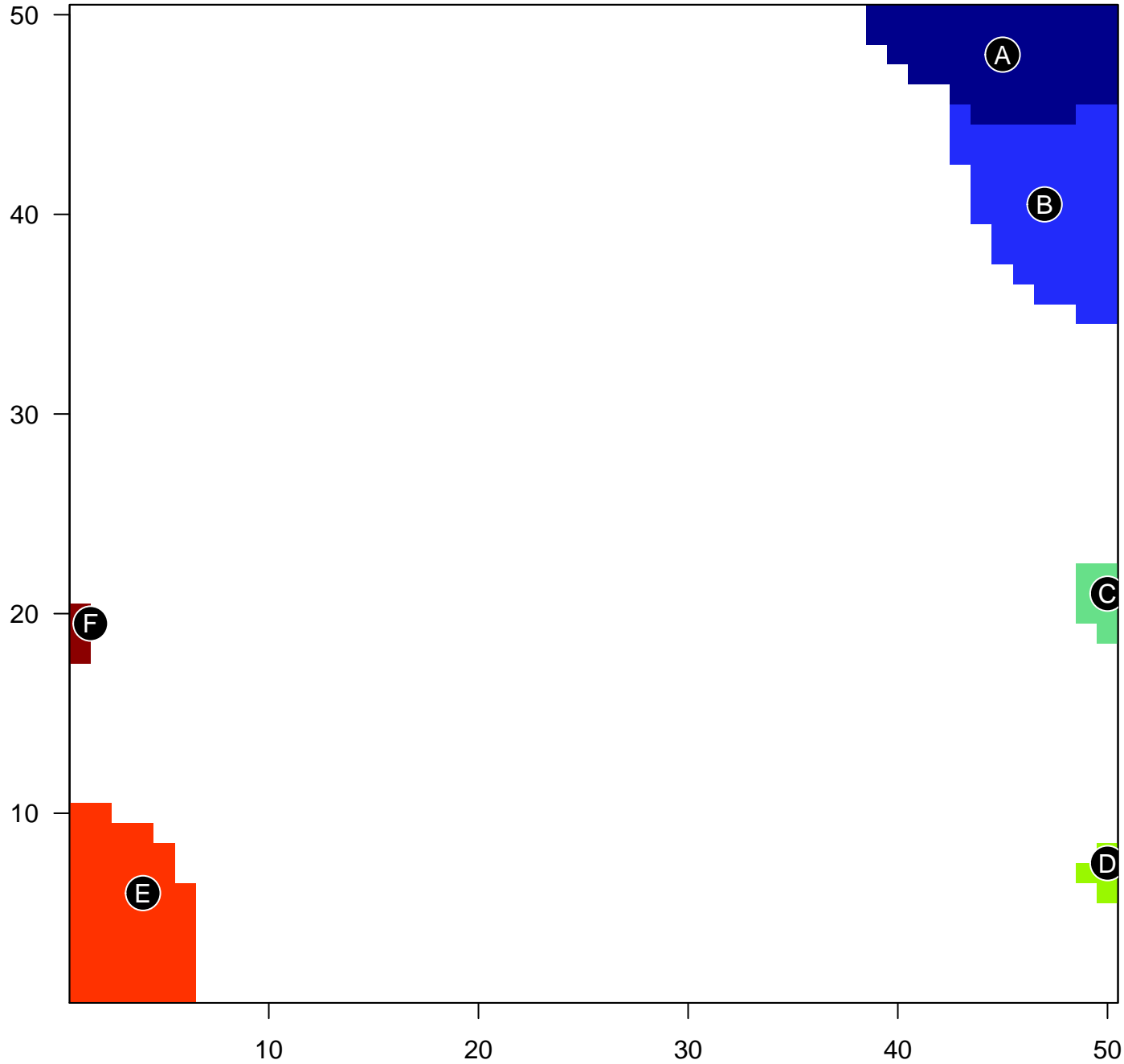
Group Overexpression Spots

landscape



Group Overexpression Spots

annotation



- A ■ HUMMEL_BURKITTs_LYMPHOMA_UP
Bcells peripheral blood_2_TssAFlnk
Bcells peripheral blood_1_TssA
- B ■ Bcells peripheral blood_4_Tx
Bcells peripheral blood_1_TssA
Tcells peripheral blood_1_TssA
- C ■ Bcells peripheral blood_6_EnhG
HOPP_Strong_enhancer
Bcells peripheral blood_4_Tx
- D ■ WIRTH_pre+post GC B-cells
LaPointe_mucosa-position_kmeans_C_cecum_colon_asce
WILLSCHER_GBM_Verhaak-PNwt & MES_up
- E ■ Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_I
ScoV_0.999_Sturm_E4_Mesenchymal_RTK I 'PDGFRA'_D
Sha_DLBCCL UP
- F ■ monocytes peripheral blood_3_TxFlnk
Fetal_TssA
HOPP_Strong_enhancer



A

HUMMEL_BURKITTTS_LYMPHOMA_UP
Bcells peripheral blood_2_TssAFlnk
Bcells peripheral blood_1_TssA

B

Bcells peripheral blood_4_Tx
Bcells peripheral blood_1_TssA
Tcells peripheral blood_1_TssA

C

Bcells peripheral blood_6_EnhG
HOPP_Strong_enhancer
Bcells peripheral blood_4_Tx

D

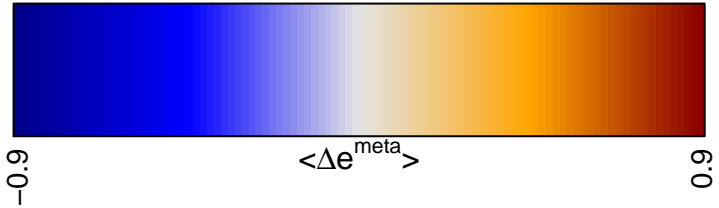
WIRTH_pre+post GC B-cells
LaPointe_mucosa-position_kmeans_C_cecum colon_ascending colon_trans
WILLSCHER_GBM_Verhaak-PNwt & MES_up

E

Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_DN
ScoV_0.999_Sturm_E4_Mesenchymal_RTK I 'PDGFRA'_DN
Sha_DLBCCL UP

F

monocytes peripheral blood_3_TxFlnk
Fetal_TssA
HOPP_Strong_enhancer



Group Overexpression Spot

Spot Summary: A

metagenes = 58
genes = 853

<r> metagenes = 0.9
<r> genes = 0.27
beta: r2= 12.2 / log p= -Inf

samples with spot = 41 (18.6 %)
mBL : 40 (90.9 %)
intermediate : 1 (2.1 %)

Spot Genelist

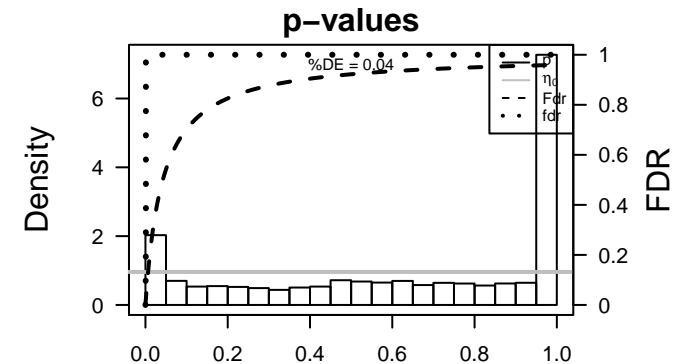
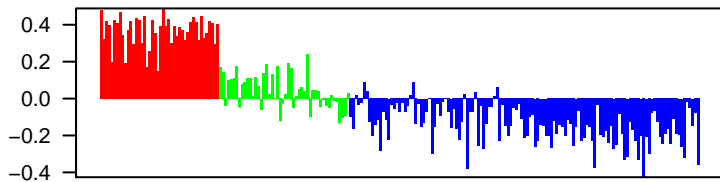
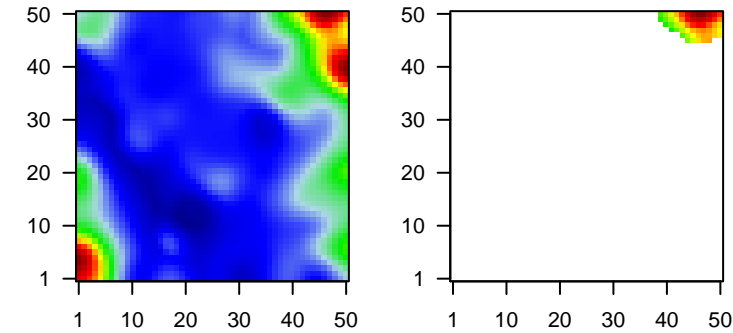
Rank	ID	max e	r	min e	Description
1	AFFX-r2-Hs1	3.22	-1.13	0.3	
2	AFFX-r2-Hs1	3.07	-1.49	0.23	
3	AFFX-HUMR	2.91	-0.94	0.31	microRNA 3687-2 [Source:HGNC Symbol;Acc:HGNC:50835]
4	AFFX-HUMR	2.85	-1.18	0.21	
5	206660_at	2.83	-0.99	0.46	IGLL1 immunoglobulin lambda like polypeptide 1 [Source:HGNC Syri
6	221349_at	2.76	-0.89	0.69	VPREB1 V-set pre-B cell surrogate light chain 1 [Source:HGNC Synt
7	206413_s_at	2.76	-1.22	0.37	TCL1B T cell leukemia/lymphoma 1B [Source:HGNC Symbol;Acc:HC
8	AFFX-r2-Hs1	2.71	-1.22	0.37	
9	AFFX-r2-Hs2	2.62	-0.97	0.32	
10	AFFX-M2783	2.6	-1.58	0.35	
11	AFFX-HUMR	2.6	-1.04	0.31	
12	203980_at	2.41	-1.55	0.28	FABP4 fatty acid binding protein 4 [Source:HGNC Symbol;Acc:HGNC
13	204914_s_at	2.24	-0.89	0.61	SOX11 SRY-box 11 [Source:HGNC Symbol;Acc:HGNC:11191]
14	AFFX-r2-Hs2	2.21	-1.56	0.32	
15	213920_at	2.19	-1.02	0.46	CUX2 cut like homeobox 2 [Source:HGNC Symbol;Acc:HGNC:1934
16	219855_at	2.18	-0.78	0.43	NUDT11 nudix hydrolase 11 [Source:HGNC Symbol;Acc:HGNC:18011
17	213674_x_at	2.16	-1.9	0.3	immunoglobulin heavy constant delta [Source:HGNC Symbol
18	38037_at	2.16	-1.11	0.52	HBEGF heparin binding EGF like growth factor [Source:HGNC Symbc
19	204915_s_at	2.16	-0.86	0.53	SOX11 SRY-box 11 [Source:HGNC Symbol;Acc:HGNC:11191]
20	208598_at	2.13	-0.99	0.18	PNMA2 PNMA family member 2 [Source:HGNC Symbol;Acc:HGNC:9

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-44	38 / 42	GSE# HUMMEL_BURKITTIS_LYMPHOMA_UP
2	3e-41	53 / 99	Lymp# Sha_BL UP
3	2e-37	155 / 966	GSE# KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
4	5e-37	80 / 280	GSE# MANALO_HYPOXIA_DN
5	4e-34	93 / 409	Canci# Lembcke_Normal vs Adenoma
6	1e-32	80 / 319	Melar# Gerber_wt/wt_melanoma--cells--SpotA
7	4e-32	62 / 192	Lymp# Victora_Dark zone signature
8	2e-31	92 / 431	GSE# GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
9	1e-29	149 / 1052	GSE# DODD_NASOPHARYNGEAL_CARCCINOMA_DN
10	3e-29	140 / 955	Lymp# SPANG_BCR UP
11	4e-29	119 / 728	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
12	6e-29	85 / 400	GSE# PUJANA_BRCA2_PCC_NETWORK
13	2e-28	98 / 526	GSE# MARSON_BOUND_BY_E2F4_UNSTIMULATED
14	7e-28	184 / 1527	GSE# PUJANA_BRCA1_PCC_NETWORK
15	2e-27	116 / 726	GSE# PUJANA_CHEK2_PCC_NETWORK
16	2e-25	98 / 575	GSE# CAIRO_HEPATOBLASTOMA_CLASSES_UP
17	1e-24	83 / 439	GSE# SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
18	7e-23	101 / 651	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
19	6e-22	96 / 615	GSE# BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_DN
20	6e-22	104 / 703	GSE# LEE_BMP2_TARGETS_DN
21	4e-21	418 / 5529	Lymp# HOPP_Txn_elongation
22	5e-21	239 / 2541	CC# nucleoplasm
23	6e-21	107 / 758	GSE# NUYTEN_EZH2_TARGETS_DN
24	4e-20	56 / 254	GSE# DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
25	9e-19	431 / 5908	Lymp# HOPP_Active_promoter
26	2e-18	52 / 240	GSE# MITSIADES_RESPONSE_TO_APLIDIN_DN
27	3e-17	92 / 669	GSE# JOHNSTONE_PARVB_TARGETS_3_DN
28	3e-17	352 / 4579	CC# nucleus
29	4e-17	44 / 187	HM# HALLMARK_E2F_TARGETS
30	1e-16	50 / 244	GSE# KOBAYASHI_EGFR_SIGNALING_24HR_DN
31	2e-16	58 / 321	GSE# BLUM_RESPONSE_TO_SALIRASIB_DN
32	6e-16	33 / 115	Gliom# WILLSCHER_GBM_Verhaak-CL_up (C
33	1e-15	43 / 195	HM# HALLMARK_G2M_CHECKPOINT
34	3e-15	46 / 226	GSE# ZHANG_TLX_TARGETS_60HR_DN
35	3e-15	13 / 15	Lymp# BENTINK_mBL UP
36	9e-15	52 / 290	GSE# WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_DN
37	1e-14	55 / 321	GSE# TOYOTA_TARGETS_OF_MIR34B_AND_MIR34C
38	2e-14	34 / 135	Lymp# DAVE_BL-vs-DLBCL
39	2e-14	56 / 335	GSE# BENPORATH_ES_1
40	2e-14	37 / 160	GSE# PUJANA_XPRSS_INT_NETWORK

Overview Map

Spot



Group Overexpression Spot

Spot Summary: B

metagenes = 63
genes = 749

<r> metagenes = 0.84
<r> genes = 0.17
beta: r2= 5.08 / log p= -Inf

samples with spot = 10 (4.5 %)
mBL : 9 (20.5 %)
intermediate : 1 (2.1 %)

Spot Genelist

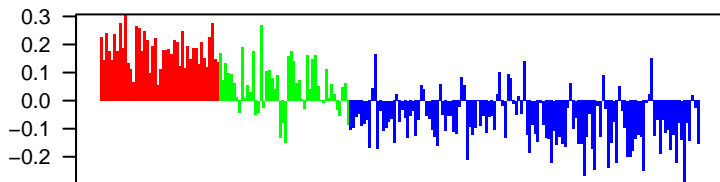
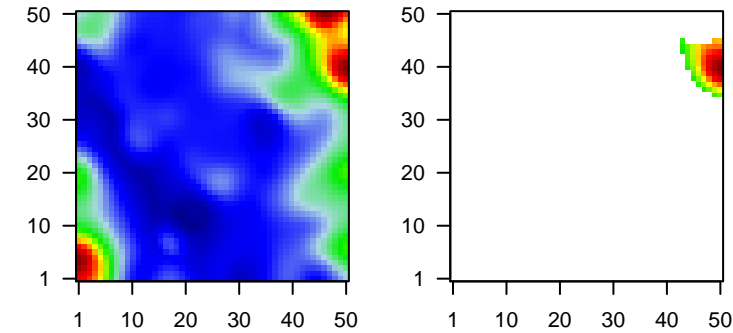
Rank	ID	max e	r	min e	Description
					Symbol
1	219655_at	2.48	-0.74	0.52	SUGCT succinyl-CoA:glutarate-CoA transferase [Source:HGNC Syrr
2	221933_at	2.43	-0.83	0.25	NLGN4X neuroligin 4, X-linked [Source:HGNC Symbol;Acc:HGNC:142
3	205123_s_at	2.4	-0.7	0.41	TMEFF1 transmembrane protein with EGF like and two follistatin like d
4	220448_at	2.35	-0.95	0.47	KCNK12 potassium two pore domain channel subfamily K member 12
5	203865_s_at	2.33	-1.02	0.36	ADARB1 adenosine deaminase, RNA specific B1 [Source:HGNC Synt
6	221879_at	2.18	-0.84	0.25	
7	205902_at	2.03	-0.94	0.46	KCNN3 potassium calcium-activated channel subfamily N member 3
8	208719_s_at	2	-1.36	0.14	DDX17 DEAD-box helicase 17 [Source:HGNC Symbol;Acc:HGNC:2:
9	210640_s_at	1.98	-0.91	0.41	GPER1 G protein-coupled estrogen receptor 1 [Source:HGNC Symb
10	220432_s_at	1.97	-0.86	0.54	CYP39A1 cytochrome P450 family 39 subfamily A member 1 [Source:H
11	211998_at	1.94	-0.89	0.26	H3F3B H3 histone family member 3B [Source:HGNC Symbol;Acc:HC
12	217373_x_at	1.92	-1.07	0.43	MDM2 MDM2 proto-oncogene [Source:HGNC Symbol;Acc:HGNC:6
13	213436_at	1.92	-1.49	0.4	CNR1 cannabinoid receptor 1 [Source:HGNC Symbol;Acc:HGNC:21
14	212186_at	1.91	-1.42	0.35	ACACA acetyl-CoA carboxylase alpha [Source:HGNC Symbol;Acc:Hi
15	219743_at	1.91	-0.7	0.52	HEY2 hes related family bHLH transcription factor with YRPW motif
16	218980_at	1.88	-0.67	0.51	FHOD3 formin homology 2 domain containing 3 [Source:HGNC Synt
17	209493_at	1.88	-1.38	0.38	PDZD2 PDZ domain containing 2 [Source:HGNC Symbol;Acc:HGNC
18	205340_at	1.82	-0.76	0.3	ZBTB24 zinc finger and BTB domain containing 24 [Source:HGNC Sy
19	210461_s_at	1.78	-0.98	0.47	ABLIM1 actin binding LIM protein 1 [Source:HGNC Symbol;Acc:HGNC
20	211363_s_at	1.76	-1.12	0.36	MTAP methylthioadenosine phosphorylase [Source:HGNC Symbol;]

Geneset Overrepresentation

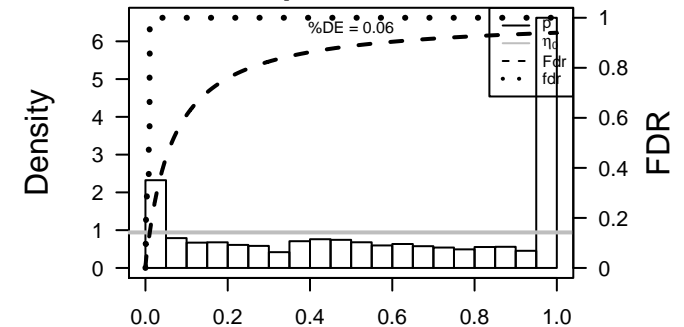
Rank	p-value	#in/all	Geneset
1	2e-45	452 / 5908	LympI HOPP_Active_promoter
2	3e-45	434 / 5529	LympI HOPP_Txn_elongation
3	2e-32	414 / 5682	LympI HOPP_Weak_promoter
4	1e-28	334 / 4261	LympI HOPP_Txn_transition
5	2e-25	123 / 955	LympI SPANG_BCR_UP
6	4e-23	377 / 5404	LympI HOPP_Strong_enhancer
7	5e-22	107 / 830	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
8	7e-22	56 / 263	LympI SPANG_CD40_6hrs_UP
9	3e-21	319 / 4357	LympI HOPP_Weak_txn
10	2e-20	327 / 4559	LympI HOPP_Weak_enhancer
11	2e-19	151 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
12	2e-18	56 / 310	Refer Chaussabel_3_4_Protein_phosphatases
13	5e-16	119 / 1174	Color LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse_c
14	9e-16	313 / 4579	CC nucleus
15	4e-15	65 / 469	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
16	7e-15	29 / 106	Refer Chaussabel_2_11_Replication
17	1e-14	140 / 1550	GSE/ PILON_KLF1_TARGETS_DN
18	2e-14	50 / 309	GSE/ DAZARD_RESPONSE_TO_UV_NHEK_DN
19	3e-14	59 / 417	GSE/ SHEN_SMARCA2_TARGETS_UP
20	1e-13	196 / 2541	CC nucleoplasm
21	2e-13	45 / 275	GSE/ HADDAD_B_LYMPHOCYTE_PROGENITOR
22	4e-13	37 / 195	GSE/ HOLLMANN_APOPTOSIS_VIA_CD40_UP
23	4e-11	115 / 1312	GSE/ PUJANA_ATM_PCC_NETWORK
24	2e-10	71 / 673	GSE/ SCHLOSSER_SERUM_RESPONSE_DN
25	2e-10	115 / 1343	Gliom Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
26	2e-10	240 / 3564	TF ICGC_Taf1_targets
27	2e-10	18 / 61	GSE/ BASSO_CD40_SIGNALING_DN
28	3e-10	125 / 1523	Gliom Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
29	4e-10	82 / 848	Color LaPointe_mucosa-position_kmeans_O_transverse_colon_UP_
30	7e-09	36 / 260	BP chromatin organization
31	7e-09	210 / 3121	TF ICGC_Egr1_targets
32	1e-08	70 / 726	GSE/ PUJANA_CHEK2_PCC_NETWORK
33	1e-08	66 / 669	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
34	2e-08	111 / 1390	GSE/ GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_DN
35	3e-08	49 / 442	GSE/ KIM_WT1_TARGETS_DN
36	7e-08	23 / 133	GSE/ PENG_LEUCINE_DEPRIVATION_UP
37	7e-08	15 / 59	GSE/ HUTTMANN_B CLL_POOR_SURVIVAL_DN
38	7e-08	12 / 37	GSE/ ZHAN_MULTIPLE_MYELOMA_CD2_UP
39	9e-08	85 / 1001	Color LaPointe_mucosa-position_kmeans_H_ascending_colon_UP
40	1e-07	124 / 1655	BP transcription, DNA-templated

Overview Map

Spot



p-values



Group Overexpression Spot

Spot Summary: C

metagenes = 7
genes = 152

<r> metagenes = 0.97

<r> genes = 0.16

beta: r2= 1.84 / log p= -Inf

samples with spot = 11 (5 %)

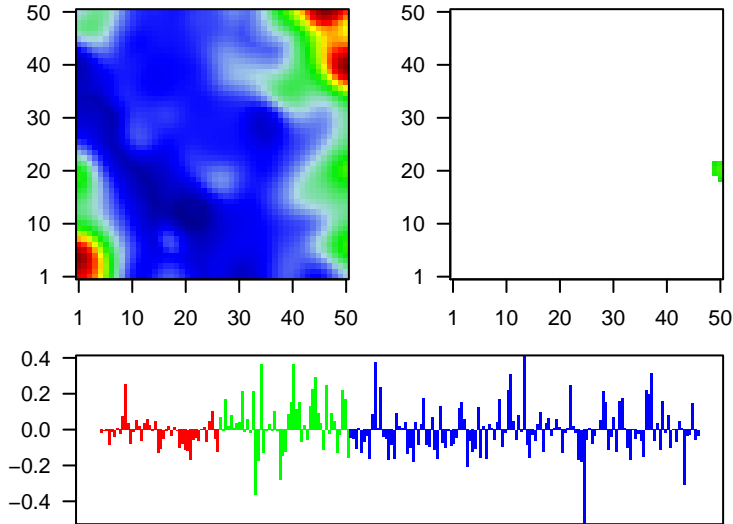
mBL : 1 (2.3 %)

intermediate : 4 (8.3 %)

non-mBL : 6 (4.7 %)

Overview Map

Spot

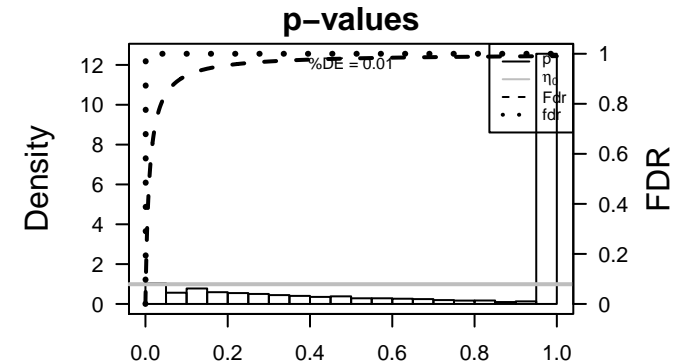


Spot Genelist

Rank	ID	max e	r	min e	Description
1	217469_at	2.61	-1.06	0.38	immunoglobulin heavy constant epsilon [Source:HGNC Synt
2	205593_s_at	2.17	-0.78	0.42	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	0.39	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	0.39	PCDHGC3 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	1e-14	98 / 5404	LympL HOPP_Strong_enhancer
2	8e-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	LympL Monti_BCR_cluster
5	5e-07	88 / 5908	LympL HOPP_Active_promoter
6	7e-07	7 / 51	GSE# MORI_LARGE_PRE_BIL_LYMPHOCYTE_DN
7	9e-07	71 / 4357	LympL HOPP_Weak_txn
8	1e-06	6 / 34	LympL TARTE_B-cell signature
9	1e-06	5 / 19	GSE# SHIN_B_CELL_LYMPHOMA_CLUSTER_9
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	82 / 5529	LympL HOPP_Txn_elongation
13	4e-06	6 / 42	Refer Chaussabel_1_3_B-cells
14	6e-06	10 / 163	GSE# ZHENG_FOXP3_TARGETS_IN_THYMUS_UP
15	1e-05	12 / 263	LympL SPANG_CD40_6hrs_UP
16	2e-05	14 / 368	GSE# ZHENG_BOUND_BY_FOXP3
17	3e-05	27 / 1166	Color LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_cecum_colo
18	5e-05	65 / 4261	LympL HOPP_Txn_transition
19	5e-05	80 / 5682	LympL HOPP_Weak_promoter
20	5e-05	18 / 621	BP negative regulation of transcription from RNA polymerase II promoter
21	6e-05	33 / 1636	TF ICGC_Bcl11_targets
22	7e-05	31 / 1508	TF ICGC_Mef2_targets
23	1e-04	10 / 227	LympL SPANG_IL21_UP
24	1e-04	10 / 229	GSE# QI_PLASMACYTOMA_UP
25	1e-04	3 / 10	BP respiratory burst
26	2e-04	9 / 195	GSE# HOLLMANN_APOPTOSIS_VIA_CD40_UP
27	2e-04	16 / 560	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
28	2e-04	5 / 52	GSE# SMIRNOV_RESPONSE_TO_IR_2HR_DN
29	2e-04	18 / 694	GSE# KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_UP
30	2e-04	7 / 121	GSE# PASQUALUCCL_LYMPHOMA_BY_GC_STAGE_DN
31	3e-04	16 / 589	Color Lembcke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
32	3e-04	30 / 1550	GSE# PILON_KLF1_TARGETS_DN
33	3e-04	5 / 59	GSE# PID_BCR_5PATHWAY
34	4e-04	5 / 61	GSE# BASSO_CD40_SIGNALING_DN
35	4e-04	6 / 96	LympL SPANG_LPS_6hrs_UP
36	4e-04	3 / 15	GSE# XU_RESPONSE_TO_TRETINOIN_UP
37	5e-04	4 / 36	GSE# NAKAYAMA_FRA2_TARGETS
38	5e-04	8 / 179	Pneui Terre_MSV_multiple_respiratory_viruses_dn
39	5e-04	10 / 275	GSE# HADDAD_B_LYMPHOCYTE_PROGENITOR
40	5e-04	3 / 16	Gliom VERHAAK_MES subtype



Group Overexpression Spot

Spot Summary: D

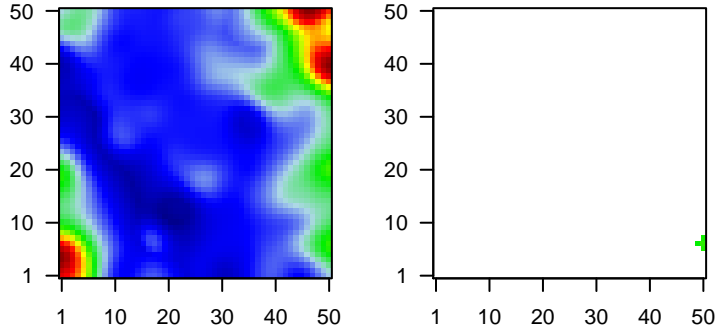
metagenes = 4
genes = 188

<r> metagenes = 1
<r> genes = 0.48
beta: r2= 9.65 / log p= -Inf

samples with spot = 37 (16.7 %)
mBL : 8 (18.2 %)
intermediate : 8 (16.7 %)
non-mBL : 21 (16.3 %)

Overview Map

Spot

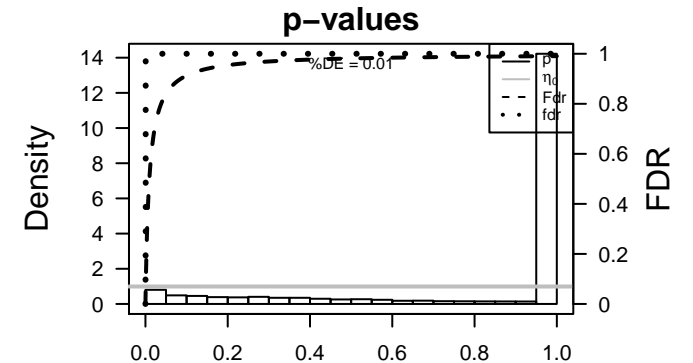
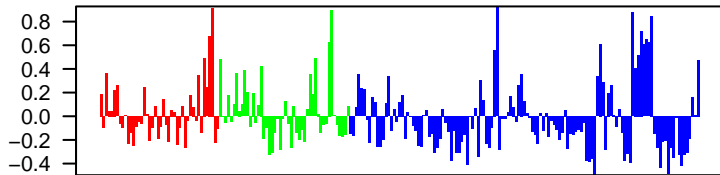


Spot Genelist

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	220918_at	2.03	-0.81	0.79	
4	220940_at	1.83	-1.2	0.77	
5	215768_at	1.81	-0.79	0.44	
6	217534_at	1.8	-0.88	0.76	FAM49B family with sequence similarity 49 member B [Source:HGNC]
7	216197_at	1.78	-0.87	0.76	
8	221616_s_at	1.78	-0.7	0.75	
9	222358_x_at	1.78	-0.81	0.84	
10	216614_at	1.77	-0.95	0.75	
11	220704_at	1.76	-1.2	0.8	IKZF1 IKAROS family zinc finger 1 [Source:HGNC Symbol;Acc:HGNC]
12	210230_at	1.75	-1.07	0.64	
13	213089_at	1.75	-1.37	0.89	
14	215599_at	1.73	-0.9	0.84	glucuronidase, beta pseudogene 3 [Source:HGNC Symbol;Acc:HGNC]
15	215024_at	1.72	-0.92	0.78	CCZ1 CCZ1 homolog, vacuolar protein trafficking and biogenesis as
16	222284_at	1.72	-0.83	0.74	
17	220338_at	1.71	-1.05	0.66	RALGPS2 Ras GEF with PH domain and SH3 binding motif 2 [Source:HGNC]
18	216310_at	1.7	-0.75	0.78	TAOK1 TAO kinase 1 [Source:HGNC Symbol;Acc:HGNC:29259]
19	216109_at	1.67	-0.76	0.7	
20	217671_at	1.67	-0.75	0.79	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-23	26 / 218	Refer WIRTH_pre+post GC B-cells
2	7e-15	26 / 492	Colon LaPointe_mucosa-position_kmeans_C_cecum colon_ascending colon_tra
3	3e-14	12 / 59	Gliom WILLSCHEER_GBM_Verhaak-PNwt & MES_up
4	6e-14	5 / 14	Cancr LIU_COMMON_CANCER_GENES
5	6e-14	5 / 14	Cancr LIU_COMMON_CANCER_GENES
6	4e-13	36 / 1174	Colon LaPointe_mucosa-position_kmeans_E_transverse colon_UP_transverse c
7	1e-12	8 / 20	Refer Chaussabel_2,7_Unknown function
8	6e-12	14 / 143	GSE/ LEE_DIFFERENTIATING_T_LYMPHOCYTE
9	3e-11	67 / 4261	Lymph HOPP_Txn_transition
10	3e-10	14 / 188	Refer Chaussabel_3,8_Enzymes
11	3e-09	6 / 17	GSE/ SPIRA_SMOKERS_LUNG_CANCER_DN
12	8e-09	10 / 102	Lymph ROSOLOWSKI_blue total
13	7e-07	5 / 22	Refer Chaussabel_1,6_Signaling molecules
14	1e-06	16 / 477	GSE/ NAKAMURA_TUMOR_ZONE_PERIPHERAL_VS_CENTRAL_DN
15	1e-06	9 / 136	GSE/ REACTOME_MRNA_PROCESSING
16	3e-06	25 / 1161	MF RNA binding
17	4e-06	10 / 198	BP mRNA splicing, via spliceosome
18	4e-06	19 / 730	GSE/ ONKEN_UVEAL_MELANOMA_UP
19	5e-06	67 / 5529	Lymph HOPP_Txn_elongation
20	5e-06	8 / 120	GSE/ REACTOME_PROCESSING_OF_CAPPED_INTRON_CONTAINING_PRE
21	1e-05	20 / 852	MF nucleic acid binding
22	1e-05	5 / 39	GSE/ BILBAN_B_CLL_LPL_DN
23	1e-05	11 / 281	BP mRNA processing
24	2e-05	16 / 600	GSE/ RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_DN
25	3e-05	20 / 906	Lymph SPANG_BCR_DN
26	3e-05	3 / 8	Gliom WILLSCHEER_GBM_LTSmut_proteomics-A_UP
27	7e-05	7 / 127	GSE/ GINESTIER_BREAST_CANCER_20Q13_AMPLIFICATION_DN
28	9e-05	6 / 92	GSE/ REACTOME_MRNA_SPLICING
29	1e-04	9 / 233	BP RNA splicing
30	1e-04	26 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
31	1e-04	10 / 297	GSE/ BASAKI_YBX1_TARGETS_DN
32	2e-04	13 / 496	Refer PROTEINATLAS_spleen
33	2e-04	3 / 14	Cancr GUSTAFSON_PI3K_DN
34	2e-04	6 / 106	Refer Chaussabel_2,11_Replication
35	3e-04	26 / 1602	GSE/ BLALOCK_ALZHEIMERS_DISEASE_UP
36	3e-04	6 / 112	GSE/ HAHTOLA_MYCOSIS_FUNGOIDES_CD4_DN
37	3e-04	19 / 989	Refer PROTEINATLAS_tonsil
38	3e-04	54 / 4579	CC nucleus
39	3e-04	5 / 75	GSE/ REACTOME_3_UTR_MEDIATED_TRANSLATIONAL_REGULATION
40	3e-04	4 / 42	BP RNA metabolic process



Group Overexpression Spot

Spot Summary: E

metagenes = 52
genes = 795

<r> metagenes = 0.93

<r> genes = 0.34

beta: r2= 19.61 / log p= -Inf

samples with spot = 49 (22.2 %)

non-mBL : 49 (38 %)

Spot Genelist

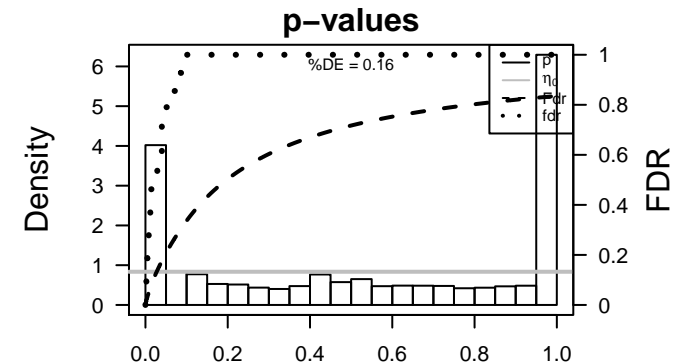
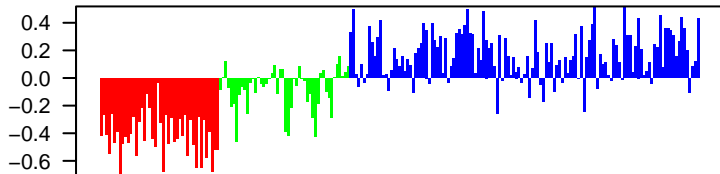
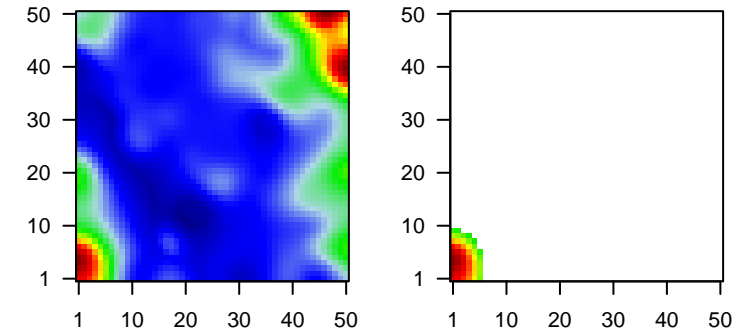
Rank	ID	max e	r	min e	Description
					Symbol
1	205040_at	2.98	-1.17	0.45	ORM1 orosomucoid 1 [Source:HGNC Symbol;Acc:HGNC:8498]
2	207900_at	2.93	-0.94	0.32	CCL17 C-C motif chemokine ligand 17 [Source:HGNC Symbol;Acc:HGNC:24222]
3	205041_s_at	2.9	-1.48	0.51	ORM1 orosomucoid 1 [Source:HGNC Symbol;Acc:HGNC:8498]
4	217002_s_at	2.74	-1.28	0.31	HTR3A 5-hydroxytryptamine receptor 3A [Source:HGNC Symbol;Acc:HGNC:24222]
5	211644_x_at	2.59	-1.77	0.32	immunoglobulin kappa variable 3-20 [Source:HGNC Symbol;Acc:HGNC:24222]
6	221185_s_at	2.57	-1.49	0.57	IQCG IQ motif containing G [Source:HGNC Symbol;Acc:HGNC:25222]
7	214551_s_at	2.53	-1.11	0.6	CD7 CD7 molecule [Source:HGNC Symbol;Acc:HGNC:1695]
8	216615_s_at	2.49	-1.56	0.38	HTR3A 5-hydroxytryptamine receptor 3A [Source:HGNC Symbol;Acc:HGNC:24222]
9	219316_s_at	2.46	-0.79	0.64	FLVCR2 feline leukemia virus subgroup C cellular receptor family member 2 [Source:HGNC Symbol;Acc:HGNC:24222]
10	208451_s_at	2.38	-1.57	0.56	C4A complement C4A (Rodgers blood group) [Source:HGNC Symbol;Acc:HGNC:24222]
11	203535_at	2.34	-1.86	0.56	S100A9 S100 calcium binding protein A9 [Source:HGNC Symbol;Acc:HGNC:24222]
12	217022_s_at	2.33	-2.54	0.46	immunoglobulin heavy constant alpha 2 (A2m marker) [Source:HGNC Symbol;Acc:HGNC:24222]
13	217546_at	2.25	-0.88	0.47	metallothionein 1M [Source:HGNC Symbol;Acc:HGNC:14296]
14	208168_s_at	2.22	-1.13	0.5	CHIT1 chitinase 1 [Source:HGNC Symbol;Acc:HGNC:1936]
15	207245_at	2.21	-1.2	0.38	UGT2B17UDP glucuronosyltransferase family 2 member B17 [Source:HGNC Symbol;Acc:HGNC:24222]
16	204561_x_at	2.19	-1.95	0.33	APOC4-APOC2 readthrough (NMD candidate) [Source:HGNC Symbol;Acc:HGNC:24222]
17	205819_at	2.09	-0.95	0.49	MARCO macrophage receptor with collagenous structure [Source:HGNC Symbol;Acc:HGNC:24222]
18	221841_s_at	2.08	-1.17	0.44	KLF4 Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]
19	202833_s_at	2.04	-2.04	0.76	SERPINA1 serpin family A member 1 [Source:HGNC Symbol;Acc:HGNC:24222]
20	202357_s_at	1.99	-1.29	0.57	CFB complement factor B [Source:HGNC Symbol;Acc:HGNC:103]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	182 / 589	Colon Lembcke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
2	3e-91	149 / 447	Gliom ScoV_0.999_Sturm_E4_Mesenchymal_RTK1/PDGFR_A_DN
3	1e-61	60 / 85	Lymph Sha_DLBCL_UP
4	2e-60	64 / 102	Refer WIRTH_EBV_B-cells
5	2e-55	98 / 317	Cancr SPANG_BCL6-index2
6	3e-53	107 / 404	GSE/ RUTELLA_RESPONSE_TO_HGF_UP
7	4e-52	88 / 269	Gliom ScoV_0.5_Sturm_C3_Mesenchymal_DN
8	2e-49	80 / 231	Gliom WILLSCHEER_GBM_Verhaak-CL & MES_up
9	1e-48	100 / 386	GSE/ RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP
10	4e-47	109 / 480	Cancr Lembcke_Colonc Inflammation
11	3e-45	75 / 223	GSE/ MCLACHLAN_DENTAL_CARIES_UP
12	8e-44	68 / 186	Cancr SPANG_LPS-index2
13	5e-43	45 / 71	Melar Tirosh_Macrophage specific genes-melanoma
14	2e-42	68 / 194	GSE/ JAATINEN_HEMATOPOIETIC_STEM_CELL_DN
15	1e-39	69 / 219	GSE/ MCLACHLAN_DENTAL_CARIES_DN
16	7e-39	44 / 78	Melar Tirosh_expression higher in CAFs than in T-cells
17	1e-36	71 / 255	GSE/ HELLER_SILENCED_BY_METHYLATION_UP
18	2e-36	72 / 265	GSE/ WALLACE_PROSTATE_CANCER_RACE_UP
19	4e-36	58 / 166	HM HALLMARK_INTERFERON_GAMMA_RESPONSE
20	3e-34	46 / 104	GSE/ ALTEMEIER_RESPONSE_TO_LPS_WITH_MECHANICAL_VENTILATION
21	3e-34	78 / 336	BP immune response
22	6e-33	72 / 297	GSE/ RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_DN
23	2e-32	86 / 431	BP immune system process
24	7e-32	54 / 166	GSE/ VERHAAK_AML_WITH_NPM1_MUTATED_UP
25	9e-32	77 / 354	GSE/ FULCHER_INFLAMMATORY_RESPONSE_LECTIN_VS_LPS_DN
26	2e-31	66 / 261	GSE/ POOLA_INVASIVE_BREAST_CANCER_UP
27	2e-30	61 / 229	GSE/ QI_PLASMACYTOMA_UP
28	2e-29	67 / 288	Color Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
29	7e-29	52 / 173	Lymph Victora_Light zone signature
30	8e-29	39 / 90	GSE/ BASSO_CD40_SIGNALING_UP
31	1e-28	73 / 354	GSE/ RODWELL_AGING_KIDNEY_UP
32	2e-28	70 / 327	GSE/ RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_UP
33	3e-28	46 / 135	Lymph DAVE_BL-vs-DLBCL
34	5e-28	55 / 202	GSE/ VERHAAK_GLIOMASTOMA_MESENCHYMAL
35	6e-28	69 / 323	BP inflammatory response
36	1e-27	53 / 190	HM HALLMARK_TNFA_SIGNALING_VIA_NFKB
37	3e-27	119 / 902	GSE/ CHEN_METABOLIC_SYNDROM_NETWORK
38	1e-26	36 / 83	Melar TCGA_melanoma_immune_high
39	4e-26	51 / 187	HM HALLMARK_INFLAMMATORY_RESPONSE
40	1e-25	49 / 176	HM HALLMARK_ALLOGRAFT_REJECTION

Overview Map

Spot



Group Overexpression Spot

Spot Summary: F

metagenes = 3
genes = 85

<r> metagenes = 0.99
<r> genes = 0.3
beta: r2= 9.25 / log p= -Inf

samples with spot = 62 (28.1 %)
intermediate : 4 (8.3 %)
non-mBL : 58 (45 %)

Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	219836_at	2.38	-1.24	0.61	ZBED2 zinc finger BED-type containing 2 [Source:HGNC Symbol;Acc:HGNC:10000]
2	218186_at	2.28	-1.29	0.4	RAB25 RAB25, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:10000]
3	217523_at	2.2	-1.4	0.73	CD44 CD44 molecule (Indian blood group) [Source:HGNC Symbol;Acc:HGNC:10000]
4	219255_x_at	2.16	-1.57	0.45	IL17RB interleukin 17 receptor B [Source:HGNC Symbol;Acc:HGNC:10000]
5	204086_at	2.11	-1.29	0.5	PRAME preferentially expressed antigen in melanoma [Source:HGNC Symbol;Acc:HGNC:10000]
6	204724_s_at	2.01	-1.6	0.37	COL9A3 collagen type IX alpha 3 chain [Source:HGNC Symbol;Acc:HGNC:10000]
7	202986_at	1.95	-0.86	0.63	ARNT2 aryl hydrocarbon receptor nuclear translocator 2 [Source:HGNC Symbol;Acc:HGNC:10000]
8	205987_at	1.93	-1.33	0.37	CD1C CD1c molecule [Source:HGNC Symbol;Acc:HGNC:1636]
9	33197_at	1.89	-0.9	0.52	MYO7A myosin VIIA [Source:HGNC Symbol;Acc:HGNC:7606]
10	219959_at	1.84	-0.95	0.59	MOCOS molybdenum cofactor sulfurase [Source:HGNC Symbol;Acc:HGNC:10000]
11	205542_at	1.83	-1.05	0.48	STEAP1 STEAP family member 1 [Source:HGNC Symbol;Acc:HGNC:10000]
12	210753_s_at	1.81	-1.19	0.62	EPHB1 EPH receptor B1 [Source:HGNC Symbol;Acc:HGNC:3392]
13	213385_at	1.76	-1.42	0.5	CHN2 chimerin 2 [Source:HGNC Symbol;Acc:HGNC:1944]
14	222281_s_at	1.76	-1.97	0.73	
15	206698_at	1.73	-1.34	0.64	XK X-linked Kx blood group [Source:HGNC Symbol;Acc:HGNC:10000]
16	220565_at	1.72	-1.38	0.64	CCR10 C-C motif chemokine receptor 10 [Source:HGNC Symbol;Acc:HGNC:10000]
17	217553_at	1.7	-0.92	0.48	STEAP1B STEAP family member 1B [Source:HGNC Symbol;Acc:HGNC:10000]
18	209094_at	1.63	-1.37	0.48	DDAH1 dimethylarginine dimethylaminohydrolase 1 [Source:HGNC Symbol;Acc:HGNC:10000]
19	207433_s_at	1.6	-0.83	0.67	IL10 interleukin 10 [Source:HGNC Symbol;Acc:HGNC:5962]
20	208189_s_at	1.54	-0.68	0.39	MYO7A myosin VIIA [Source:HGNC Symbol;Acc:HGNC:7606]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	7e-07	53 / 5404	Lymp/ HOPP_Strong_enhancer
2	1e-06	9 / 182	Refer/ WIRTH_post_GC_B-cells
3	2e-06	11 / 317	Cancr/ SPANG_BCL6-index2
4	7e-06	8 / 173	Lymp/ Victora_Light_zone_signature
5	1e-05	6 / 85	Lymp/ Aukema_BCL2_DN_BCL6_UP
6	1e-05	6 / 87	GSE/ BOSCO_TH1_CYTOTOXIC_MODULE
7	2e-05	7 / 139	GSE/ BROCKE_APOPTOSIS_REVERSED_BY_IL6
8	3e-05	5 / 63	GSE/ BOYLAN_MULTIPLE_MYELOMA_D_DN
9	3e-05	8 / 213	Lymp/ SPANG_IL21_DN
10	4e-05	3 / 12	BP/ leukocyte_chemotaxis
11	4e-05	3 / 12	GSE/ GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP
12	4e-05	5 / 67	Immu/ Angelova_immune-metogene-T-cells
13	7e-05	4 / 38	GSE/ CROONQUIST_NRAS_VS_STROMAL_STIMULATION_UP
14	1e-04	8 / 249	GSE/ HUTTMANN_B CLL_POOR_SURVIVAL_UP
15	1e-04	5 / 85	Lymp/ Sha_DLBCUP
16	1e-04	3 / 18	Lymp/ WRIGHT_ABC_UP
17	2e-04	4 / 49	GSE/ GAURNIER_PSM4_TARGETS
18	2e-04	7 / 206	GSE/ KOYAMA_SEMA3B_TARGETS_UP
19	5e-04	4 / 63	GSE/ RICKMAN_HEAD_AND_NECK_CANCER_A
20	5e-04	8 / 321	GSE/ PHONG_TNF_RESPONSE_NOT_VIA_P38
21	8e-04	11 / 608	GSE/ SMID_BREAST_CANCER_BASAL_UP
22	9e-04	4 / 73	GSE/ VANDESLUIS_COMMD1_TARGETS_GROUP_3_UP
23	9e-04	9 / 434	BP/ negative_regulation_of_apoptotic_process
24	1e-03	4 / 77	GSE/ KEGG_HEMATOPOIETIC_CELL_LINEAGE
25	1e-03	9 / 447	Gliom/ ScoV_0.999_Sturm_E4_Mesenchymal_RTK_I_PDGFR_A_DN
26	1e-03	4 / 80	GSE/ ZHANG_TARGETS_OF_EWSR1_FL11_FUSION
27	1e-03	9 / 453	GSE/ ONDER_CDH1_TARGETS_2_DN
28	1e-03	4 / 82	Gliom/ laffaire_hypermeth_LGG_vs_control
29	1e-03	38 / 4261	Lymp/ HOPP_Txn_transition
30	1e-03	7 / 290	GSE/ O'DONNELL_TFRC_TARGETS_UP
31	2e-03	4 / 85	HM/ HALLMARK_IL6_JAK_STAT3_SIGNALING
32	2e-03	3 / 40	GSE/ WINTER_HYPOXIA_DN
33	2e-03	2 / 11	BP/ negative_regulation_of_nitric_oxide_biosynthetic_process
34	2e-03	9 / 480	Cancr/ Lembcke_Colonc_Inflammation
35	2e-03	3 / 42	GSE/ PENG_GLUCOSE_DEPRIVATION_UP
36	2e-03	4 / 90	GSE/ BASSO_CD40_SIGNALING_UP
37	2e-03	13 / 902	GSE/ CHEN_METABOLIC_SYNDROM_NETWORK
38	2e-03	13 / 906	Lymp/ SPANG_BCR_DN
39	2e-03	2 / 12	BP/ positive_regulation_of_heterotypic_cell-cell_adhesion
40	2e-03	2 / 12	Lymp/ BENTINK_mBL_DOWN

Overview Map

Spot

