

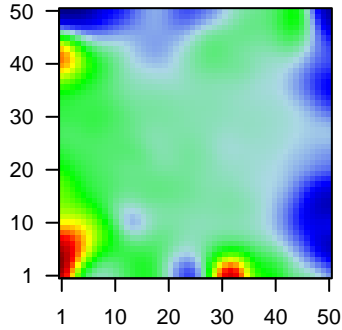
# GW\_234

## Global Summary

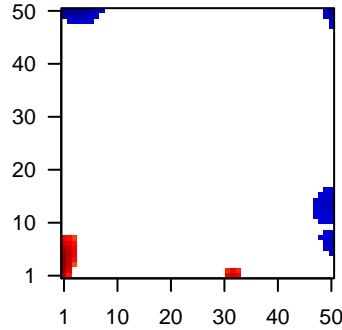
%DE = 0.13  
 # genes with fdr < 0.2 = 1712 ( 920 + / 792 - )  
 # genes with fdr < 0.1 = 1390 ( 769 + / 621 - )  
 # genes with fdr < 0.05 = 1104 ( 631 + / 473 - )  
 # genes with fdr < 0.01 = 840 ( 491 + / 349 - )  
 # genes in genesets = 16332

<FC> = 0  
 <shrinkage-t> = 0  
 <p-value> = 0.11  
 <fdr> = 0.87

Profile



Regulated Spots



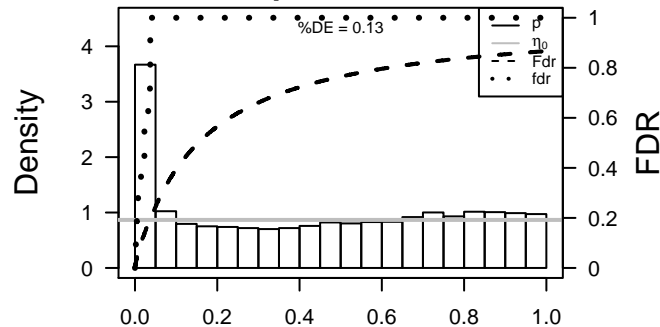
## Global Genelist

Rank	ID	log(FC)	fdr p-value	Description Metagene
1	58	-1.44	2e-16 3e-14	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12]
2	87	1.33	2e-16 3e-14	1 x 3 actinin, alpha 1 [Source:HGNC Symbol;Acc:163]
3	131	-2.52	2e-16 3e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
4	216	-1.5	2e-16 3e-14	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC]
5	218	-1.64	2e-16 3e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC]
6	163782	1.4	2e-16 3e-14	1 x 2 KN motif and ankyrin repeat domains 4 [Source:HGNC Symb]
7	118429	1.3	2e-16 3e-14	2 x 1 anthrax toxin receptor 2 [Source:HGNC Symbol;Acc:21732]
8	306	1.46	2e-16 3e-14	4 x 42 annexin A3 [Source:HGNC Symbol;Acc:541]
9	23780	1.29	2e-16 3e-14	32 x 1 apolipoprotein L, 2 [Source:HGNC Symbol;Acc:619]
10	684	1.31	2e-16 3e-14	32 x 1 bone marrow stromal cell antigen 2 [Source:HGNC Symbol;A]
11	140851	1.38	2e-16 3e-14	1 x 5
12	834	1.32	2e-16 3e-14	32 x 1 caspase 1, apoptosis-related cysteine peptidase [Source:HG]
13	857	1.31	2e-16 3e-14	1 x 4 caveolin 1, caveolae protein, 22kDa [Source:HGNC Symbol;A]
14	629	1.96	2e-16 3e-14	32 x 1 complement factor B [Source:HGNC Symbol;Acc:1037]
15	9076	-1.22	2e-16 3e-14	49 x 50 claudin 1 [Source:HGNC Symbol;Acc:2032]
16	1258	1.42	2e-16 3e-14	1 x 7 cyclic nucleotide gated channel beta 1 [Source:HGNC Symbc]
17	1308	1.65	2e-16 3e-14	1 x 43 collagen, type XVII, alpha 1 [Source:HGNC Symbol;Acc:2194]
18	1437	1.31	2e-16 3e-14	1 x 4 colony stimulating factor 2 (granulocyte-macrophage) [Source]
19	1469	1.89	2e-16 3e-14	9 x 6 cystatin SN [Source:HGNC Symbol;Acc:2473]
20	2919	1.38	2e-16 3e-14	1 x 1 chemokine (C-X-C motif) ligand 1 (melanoma growth stimule

## Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	14.85	NULL	51	BP type I interferon signaling pathway
2	14.15	NULL	123	BP defense response to virus
3	13.65	NULL	16	GSEA C2MOSERLE_IFNA_RESPONSE
4	12.67	NULL	13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
5	11.8	NULL	572	Disease GUDJ_poriasis up
6	11.73	NULL	16	GSEA C2EINAV_INTERFERON_SIGNATURE_IN_CANCER
7	11.4	NULL	10	GSEA C2BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
8	11.35	NULL	10	GSEA C2GRANDVAUX_IFN_RESPONSE_NOT_VIA_IRF3
9	11.16	NULL	16	GSEA C2ZHANG_INTERFERON_RESPONSE
10	11.14	NULL	31	BP negative regulation of viral genome replication
11	10.97	NULL	11	GSEA C2BENNETT_SYSTEMIC_LUPUS_ERYTHEMATOSUS
12	10.73	NULL	16	GSEA C2JROSEVIC_RESPONSE_TO_IMIQUIMOD
13	10.12	NULL	109	BP response to virus
14	9.99	NULL	142	Glio willscher_GBM_Verhaak-CL_expression_C_up
15	9.99	NULL	142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
16	9.86	NULL	8	GSEA C2ROETH_TERT_TARGETS_UP
17	9.62	NULL	16	GSEA C2XU_HGF_TARGETS_INDUCED_BY_AKT1_6HR
18	9.59	NULL	242	BP extracellular matrix organization
19	9.58	NULL	12	BP hemidesmosome assembly
20	9.46	NULL	68	Glio cultured astroglia vs. in vivo astrocytes
<i>Underexpressed</i>				
1	-8.13	NULL	135	H.Tiss WIRTH_Mucosa
2	-7.28	NULL	8	GSEA C2RUNNE_GENDER_EFFECT_UP
3	-6.98	NULL	7	MMML C2SCIEJ_MMML 5
4	-6.67	NULL	743	Chr Chr 7
5	-6.35	NULL	92	BP translational elongation
6	-6.17	NULL	9	GSEA C2REACTOME_ETHANOL_OXIDATION
7	-6.17	NULL	128	BP translational initiation
8	-6.12	NULL	127	H.Tiss WIRTH_Muscle
9	-6.08	NULL	33	BP cholesterol biosynthetic process
10	-5.91	NULL	15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
11	-5.83	NULL	15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
12	-5.78	NULL	87	BP translational termination
13	-5.76	NULL	8	GSEA C2LIU_CDX2_TARGETS_DN
14	-5.74	NULL	81	BP viral transcription
15	-5.62	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
16	-5.61	NULL	15	GSEA C2REACTOME_CHOLESTEROL_BIOSYNTHESIS
17	-5.58	NULL	11	GSEA C2KEGG_DRUG_METABOLISM_CYTOCHROME_P450
18	-5.37	NULL	115	BP nuclear-transcribed mRNA catabolic process, nonsense-mediated
19	-5.27	NULL	92	BP viral life cycle
20	-5.21	NULL	13	GSEA C2KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P

p-values



# GW\_234

## Local Summary

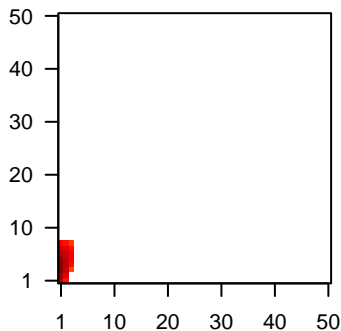
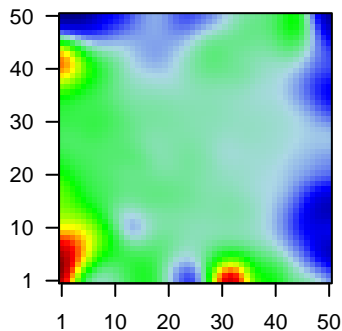
%DE = 0.83  
 # metagenes = 22  
 # genes = 332  
 # genes in genesets = 329  
 # genes with  $fdr < 0.1$  = 223 ( 217 + / 6 - )  
 # genes with  $fdr < 0.05$  = 214 ( 208 + / 6 - )  
 # genes with  $fdr < 0.01$  = 182 ( 177 + / 5 - )

$\langle r \rangle$  metagenes = 0.94  
 $\langle r \rangle$  genes = 0.32

$\langle FC \rangle = 0.55$   
 $\langle \text{shrinkage-t} \rangle = 19.22$   
 $\langle p\text{-value} \rangle = 0$   
 $\langle fdr \rangle = 0.38$

Profile

Spot



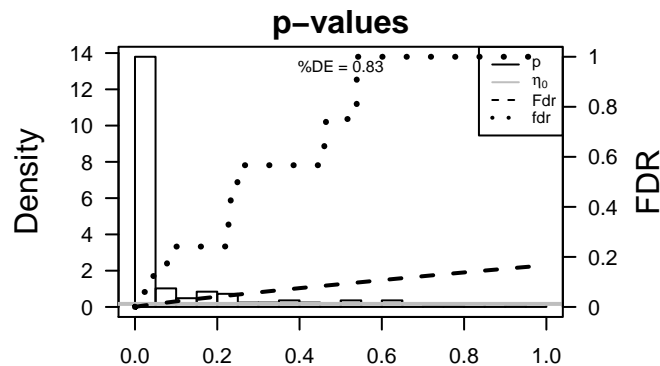
## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	87	1.33	2e-16	4e-16	1 x 3 actinin, alpha 1 [Source:HGNC Symbol;Acc:163]
2	163782	1.4	2e-16	4e-16	1 x 2 KN motif and ankyrin repeat domains 4 [Source:HGNC Symb
3	118429	1.3	2e-16	4e-16	2 x 1 anthrax toxin receptor 2 [Source:HGNC Symbol;Acc:21732]
4	140851	1.38	2e-16	4e-16	1 x 5 caveolin 1, caveolae protein, 22kDa [Source:HGNC Symbol;A
5	857	1.31	2e-16	4e-16	1 x 4 cyclin D1, cyclin D1, 34kDa [Source:HGNC Symbol;Acc:10000]
6	1258	1.42	2e-16	4e-16	1 x 7 cyclic nucleotide gated channel beta 1 [Source:HGNC Symbc
7	1437	1.31	2e-16	4e-16	1 x 4 colony stimulating factor 2 (granulocyte-macrophage) [Sourc
8	2919	1.38	2e-16	4e-16	1 x 1 chemokine (C-X-C motif) ligand 1 (melanoma growth stimula
9	285761	1.51	2e-16	4e-16	1 x 4 discoidin, CUB and LCCL domain containing 1 [Source:HGNC
10	27122	1.44	2e-16	4e-16	1 x 3 dickkopf WNT signaling pathway inhibitor 3 [Source:HGNC S
11	2201	1.88	2e-16	4e-16	1 x 5 fibrillin 2 [Source:HGNC Symbol;Acc:3604]
12	3678	1.58	2e-16	4e-16	1 x 1 integrin, alpha 5 (fibronectin receptor, alpha polypeptide) [So
13	3909	1.54	2e-16	4e-16	1 x 5 laminin, alpha 3 [Source:HGNC Symbol;Acc:6483]
14	3918	1.29	2e-16	4e-16	1 x 4 laminin, gamma 2 [Source:HGNC Symbol;Acc:6493]
15	4312	2.68	2e-16	4e-16	1 x 1 matrix metalloproteinase 1 (interstitial collagenase) [Source:H
16	4319	2.02	2e-16	4e-16	1 x 3 matrix metalloproteinase 10 (stromelysin 2) [Source:HGNC Sy
17	4314	2.66	2e-16	4e-16	1 x 1 matrix metalloproteinase 3 (stromelysin 1, progelatinase) [Sou
18	4489	1.32	2e-16	4e-16	1 x 4 metallothionein 1A [Source:HGNC Symbol;Acc:7393]
19	4493	1.35	2e-16	4e-16	1 x 5 metallothionein 1E [Source:HGNC Symbol;Acc:7397]
20	4502	1.8	2e-16	4e-16	1 x 3 metallothionein 2A [Source:HGNC Symbol;Acc:7406]

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	24.41	NULL	10 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
2	22.44	NULL	59 / 242	BP extracellular matrix organization
3	21.27	NULL	6 / 10	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C4
4	17.9	NULL	7 / 11	Glio Phillips MES up vs Prolif & PN
5	16.34	NULL	11 / 35	Glio Colman_survival_associated
6	16.3	NULL	6 / 15	GSEA C2LEE_LIVER_CANCER_HEPATOBLAST
7	16.29	NULL	7 / 16	MF fibronectin binding
8	15.48	NULL	6 / 12	BP hemidesmosome assembly
9	15.02	NULL	55 / 403	BP cell adhesion
10	14.79	NULL	21 / 64	BP collagen catabolic process
11	14.74	NULL	37 / 190	CC extracellular matrix
12	14.61	NULL	44 / 250	LymphocyteENZ_Stromal signature 1
13	14.56	NULL	3 / 10	BP cellular response to zinc ion
14	14.55	NULL	22 / 69	BP extracellular matrix disassembly
15	14.17	NULL	100 / 1182CC	extracellular region
16	14.06	NULL	67 / 683	extracellular space
17	13.93	NULL	5 / 8	GSEA C2SASAKI_TARGETS_OF_TP73_AND_TP63
18	13.55	NULL	3 / 15	GSEA C2TRAYNOR_RETT_SYNDROM_UP
19	13.32	NULL	26 / 183	CC proteinaceous extracellular matrix
20	13.27	NULL	4 / 12	GSEA C2Y_AGING_MIDDLE_UP
21	13.05	NULL	17 / 83	CC basement membrane
22	12.68	NULL	8 / 51	BP regulation of cell migration
23	12.62	NULL	6 / 19	MF laminin binding
24	12.51	NULL	1 / 5	GSEA C2OXFORD_RALA_AND_RALB_TARGETS_UP
25	12.46	NULL	8 / 16	GSEA C2BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_DN
26	12.46	NULL	4 / 10	GSEA C2JEON_SMAD6_TARGETS_UP
27	12.3	NULL	3 / 11	GSEA C2VERRECCHIA_DELAYED_RESPONSE_TO_TGFB1
28	12.15	NULL	2 / 7	MMLL C6SCIEJ_MMLL_13
29	12.12	NULL	5 / 13	GSEA C2BRUECKNER_TARGETS_OF_MIRLET7A3_DN
30	11.88	NULL	3 / 15	GSEA C2WU_HBX_TARGETS_1_UP
31	11.79	NULL	3 / 15	GSEA C2SEITZ_NEOPLASTIC_TRANSFORMATION_BY_8P_DELETION_
32	11.63	NULL	4 / 13	GSEA C2REACTOME_REGULATION_OF_INSULIN_LIKE_GROWTH_FAC
33	11.57	NULL	2 / 12	GSEA C2SEISS_RESPONSE_TO_DSRNA_DN
34	11.56	NULL	3 / 15	BP negative regulation of growth
35	11.31	NULL	4 / 11	GSEA C2LIU_SOX4_TARGETS_UP
36	11.12	NULL	14 / 85	MF integrin binding
37	11.09	NULL	4 / 16	GSEA C2KEGG_BLADDER_CANCER
38	11.09	NULL	10 / 16	MMLL C6SCIEJ_MMLL_1
39	10.95	NULL	3 / 10	GSEA C2VETTER_TARGETS_OF_PRKCA_AND_ETS1_DN
40	10.95	NULL	3 / 10	GSEA C2TSUNODA_CISPLATIN_RESISTANCE_DN



# GW\_234

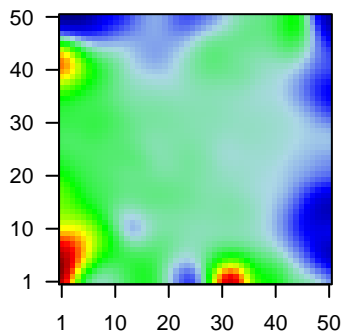
## Local Summary

%DE = 0.95  
 # metagenes = 6  
 # genes = 114  
 # genes in genesets = 112  
 # genes with  $fdr < 0.1 = 106$  ( 105 + / 1 - )  
 # genes with  $fdr < 0.05 = 101$  ( 100 + / 1 - )  
 # genes with  $fdr < 0.01 = 95$  ( 94 + / 1 - )

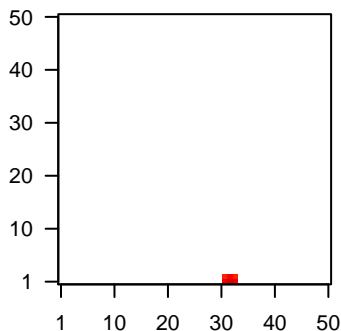
<r> metagenes = 1  
 <r> genes = 0.47

<FC> = 0.79  
 <shrinkage-t> = 27.92  
 <p-value> = 0  
 <fdr> = 0.14

Profile



Spot



## Local Genelist

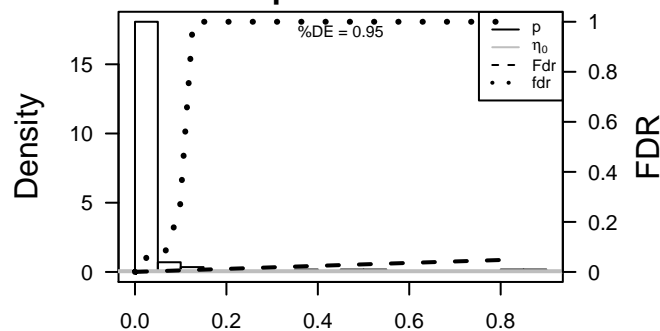
Rank	ID	log(FC)	fdr	p-value	Description
1	23780	1.29	2e-16	6e-17	32 x 1 apolipoprotein L, 2 [Source:HGNC Symbol;Acc:619]
2	684	1.31	2e-16	6e-17	32 x 1 bone marrow stromal cell antigen 2 [Source:HGNC Symbol;A
3	834	1.32	2e-16	6e-17	32 x 1 caspase 1, apoptosis-related cysteine peptidase [Source:HG
4	629	1.96	2e-16	6e-17	32 x 1 complement factor B [Source:HGNC Symbol;Acc:1037]
5	3627	2.18	2e-16	6e-17	32 x 1 chemokine (C-X-C motif) ligand 10 [Source:HGNC Symbol;f
6	94240	1.41	2e-16	6e-17	32 x 1 epithelial stromal interaction 1 (breast) [Source:HGNC Symbc
7	2633	1.23	2e-16	6e-17	32 x 1 guanylate binding protein 1, interferon-inducible [Source:HGf
8	115362	1.44	2e-16	6e-17	32 x 1 guanylate binding protein 5 [Source:HGNC Symbol;Acc:1989
9	51191	1.33	2e-16	6e-17	32 x 1 HECT and RLD domain containing E3 ubiquitin protein ligase
10	55008	1.3	2e-16	6e-17	32 x 1 HECT and RLD domain containing E3 ubiquitin protein ligase
11	3430	1.38	2e-16	6e-17	32 x 1 interferon-induced protein 35 [Source:HGNC Symbol;Acc:53
12	10561	1.28	2e-16	6e-17	32 x 1 interferon-induced protein 44 [Source:HGNC Symbol;Acc:16
13	10964	1.61	2e-16	6e-17	32 x 1 interferon-induced protein 44-like [Source:HGNC Symbol;Ac
14	2537	1.9	2e-16	6e-17	32 x 1 interferon, alpha-inducible protein 6 [Source:HGNC Symbol;f
15	3433	1.6	2e-16	6e-17	32 x 1 interferon-induced protein with tetratricopeptide repeats 2 [Sc
16	8519	1.27	2e-16	6e-17	32 x 1 interferon induced transmembrane protein 1 [Source:HGNC S
17	10581	1.14	2e-16	6e-17	32 x 1 interferon induced transmembrane protein 2 [Source:HGNC S
18	10410	1.29	2e-16	6e-17	32 x 1 interferon induced transmembrane protein 3 [Source:HGNC S
19	9636	2.28	2e-16	6e-17	32 x 1 ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:40E
20	4061	1.39	2e-16	6e-17	32 x 1 lymphocyte antigen 6 complex, locus E [Source:HGNC Symb

## Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	53.65	NULL	29 / 51	BP type I interferon signaling pathway
2	52.72	NULL	12 / 16	GSEA C2MOSERLE_IFNA_RESPONSE
3	47.69	NULL	11 / 16	GSEA C2EINAV_INTERFERON_SIGNATURE_IN_CANCER
4	46.89	NULL	9 / 10	GSEA C2BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
5	42.37	NULL	10 / 13	GSEA C2BOWIE_RESPONSE_TO_TAMOXIFEN
6	41.36	NULL	8 / 10	GSEA C2GRANDVAUX_IFN_RESPONSE_NOT_VIA_IRF3
7	41.15	NULL	8 / 11	GSEA C2BENNETT_SYSTEMIC_LUPUS_ERYTHEMATOSUS
8	39.97	NULL	11 / 16	GSEA C2ZHANG_INTERFERON_RESPONSE
9	38.55	NULL	6 / 8	GSEA C2ROETH_TERT_TARGETS_UP
10	37.37	NULL	31 / 123	BP defense response to virus
11	36.62	NULL	13 / 31	BP negative regulation of viral genome replication
12	35.83	NULL	3 / 4	GSEA C2KRASNOSELSKAYA_ILF3_TARGETS_UP
13	34.32	NULL	27 / 109	BP response to virus
14	31.78	NULL	10 / 16	GSEA C2JROSEVIC_RESPONSE_TO_IMIQUMOD
15	31.77	NULL	3 / 5	GSEA C2KIM_LRRC3B_TARGETS
16	30.71	NULL	4 / 12	GSEA C2ZHU_CMV_8_HR_UP
17	30.57	NULL	7 / 16	GSEA C2MAHADEVAN_RESPONSE_TO_MP470_UP
18	29.67	NULL	6 / 12	GSEA C2TSAI_DNAJB4_TARGETS_UP
19	29.25	NULL	34 / 204	BP cytokine-mediated signaling pathway
20	28.16	NULL	6 / 16	GSEA C2KU_HGF_TARGETS_INDUCED_BY_AKT1_6HR
21	27.51	NULL	5 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
22	27.44	NULL	6 / 14	GSEA C2XU_AKT1_TARGETS_6HR
23	26.88	NULL	3 / 4	MMML C2GSCIEJ_MMML 47
24	25.61	NULL	6 / 6	Lymphom BAVE_MHCCI2 BL DN
25	24.73	NULL	4 / 14	GSEA C2TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_UP
26	23.84	NULL	4 / 10	GSEA C2DAUER_STAT3_TARGETS_DN
27	23.39	NULL	31 / 274	Lymphom SPANG_IL21 DN
28	23.17	NULL	6 / 14	Glio Donson-immune cell intra signaling-associated with LTS in HGA
29	22.87	NULL	4 / 16	GSEA C2SEITZ_NEOPLASTIC_TRANSFORMATION_BY_8P_DELETION
30	22.64	NULL	6 / 14	GSEA C2RADAIEVA_RESPONSE_TO_IFNA1_UP
31	22.1	NULL	4 / 15	GSEA C2BECKER_TAMOXIFEN_RESISTANCE_UP
32	22	NULL	46 / 572	Disease GUDJ_poriasis up
33	21.63	NULL	3 / 9	GSEA C2DER_IFN_ALPHA_RESPONSE_UP
34	21.63	NULL	3 / 9	GSEA C2DER_IFN_GAMMA_RESPONSE_UP
35	21.17	NULL	2 / 2	MMML C2GSCIEJ_MMML 27
36	20.92	NULL	7 / 10	CC MHC class I protein complex
37	20.24	NULL	16 / 60	BP interferon-gamma-mediated signaling pathway
38	19.97	NULL	5 / 18	BP response to interferon-gamma
39	19.69	NULL	4 / 14	GSEA C2TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_UP
40	19.55	NULL	3 / 5	GSEA C2BROWNE_INTERFERON_RESPONSIVE_GENES

p-values



# GW\_234

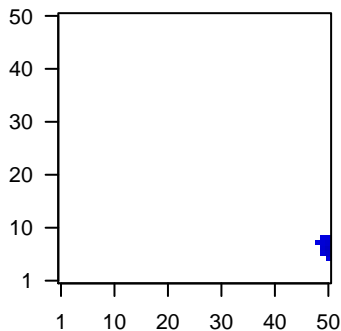
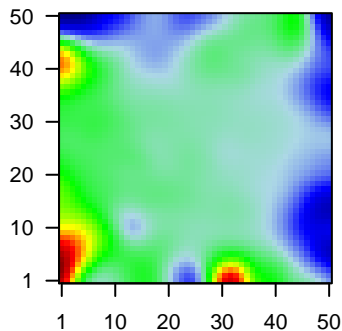
## Local Summary

%DE = 0.84  
 # metagenes = 10  
 # genes = 142  
 # genes in genesets = 142  
 # genes with  $fdr < 0.1 = 91$  ( 4 + / 87 - )  
 # genes with  $fdr < 0.05 = 85$  ( 4 + / 81 - )  
 # genes with  $fdr < 0.01 = 49$  ( 4 + / 45 - )

<r> metagenes = 0.95  
 <r> genes = 0.37  
 <FC> = -0.33  
 <shrinkage-t> = -11.6  
 <p-value> = 0  
 <fdr> = 0.56

Profile

Spot



## Local Genelist

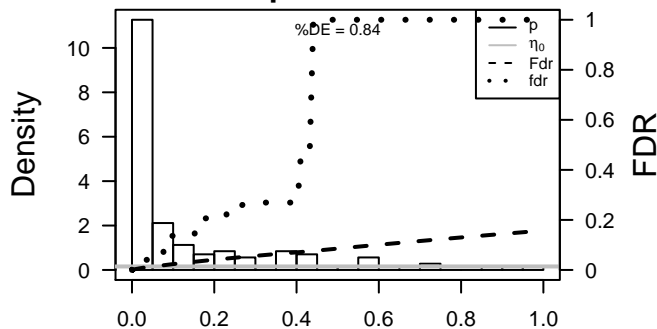
Rank	ID	log(FC)	fdr	p-value	Description
1	3488	-1.38	2e-16	2e-15	50 x 7 insulin-like growth factor binding protein 5 [Source:HGNC Sy
2	6192	-2.21	2e-16	2e-15	50 x 9 ribosomal protein S4, Y-linked 1 [Source:HGNC Symbol;Acc:
3	3426	1.17	6e-15	2e-12	50 x 8 complement factor I [Source:HGNC Symbol;Acc:5394]
4	7832	-1.11	1e-13	2e-12	49 x 6 BTG family, member 2 [Source:HGNC Symbol;Acc:1131]
5	79901	-1.1	2e-13	3e-12	50 x 7 cytochrome b reductase 1 [Source:HGNC Symbol;Acc:20797
6	1363	-1.09	3e-13	3e-09	50 x 7 carboxypeptidase E [Source:HGNC Symbol;Acc:2303]
7	347	-0.96	1e-10	4e-09	50 x 7 apolipoprotein D [Source:HGNC Symbol;Acc:612]
8	4239	-0.93	5e-10	4e-09	50 x 6 microfibrillar-associated protein 4 [Source:HGNC Symbol;Ac
9	10253	-0.92	7e-10	4e-09	50 x 8 sprouty homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:1
10	8284	-0.92	7e-10	1e-08	48 x 8 lysine (K)-specific demethylase 5D [Source:HGNC Symbol;A
11	4256	-0.9	2e-09	1e-08	50 x 6 matrix Gla protein [Source:HGNC Symbol;Acc:7060]
12	338773	-0.9	2e-09	1e-07	50 x 5 transmembrane protein 119 [Source:HGNC Symbol;Acc:278
13	2532	-0.86	8e-09	1e-07	50 x 5 Duffy blood group, atypical chemokine receptor [Source:HGN
14	7049	-0.86	1e-08	1e-07	50 x 9 transforming growth factor, beta receptor III [Source:HGNC S
15	3075	0.85	1e-08	3e-06	50 x 7 complement factor H [Source:HGNC Symbol;Acc:4883]
16	6867	-0.77	3e-07	3e-06	50 x 6 transforming, acidic coiled-coil containing protein 1 [Source:t
17	6358	-0.77	3e-07	2e-05	50 x 7 chemokine (C-C motif) ligand 14 [Source:HGNC Symbol;Acc
18	1359	-0.73	1e-06	2e-05	50 x 7 carboxypeptidase A3 (mast cell) [Source:HGNC Symbol;Acc:
19	1396	0.71	2e-06	2e-04	50 x 5 cysteine-rich protein 1 (intestinal) [Source:HGNC Symbol;Ac
20	1362	0.66	9e-06	2e-04	50 x 9 carboxypeptidase D [Source:HGNC Symbol;Acc:2301]

## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-28.54	NULL	2 / 7	MMML 5
2	-26.43	NULL	2 / 8	GSEA C2RUNNE_GENDER_EFFECT_UP
3	-22.22	NULL	3 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
4	-20.08	NULL	1 / 7	GSEA C2LEE_NAIVE_T_LYMPHOCYTE
5	-18.6	NULL	1 / 8	GSEA C2REACTOME_REGULATION_OF_GENE_EXPRESSION_IN_BETA
6	-17.38	NULL	1 / 9	GSEA C2KEGG_RIBOSOME
7	-17.38	NULL	1 / 9	GSEA C2REACTOME_FORMATION_OF_A_POOL_OF_FREE_40S_SUBU
8	-17.38	NULL	1 / 9	GSEA C2REACTOME_GTP_HYDROLYSIS_AND_JOINING_OF_THE_60S
9	-17.38	NULL	1 / 9	GSEA C2REACTOME_INFLUENZA_VIRAL_RNA_TRANSCRIPTION_AND
10	-17.38	NULL	1 / 9	GSEA C2REACTOME_PEPTIDE_CHAIN_ELONGATION
11	-17.38	NULL	1 / 9	GSEA C2REACTOME_REGULATION_OF_BETA_CELL_DEVELOPMENT
12	-17.38	NULL	1 / 9	GSEA C2REACTOME_VIRAL_MRNA_TRANSLATION
13	-16.37	NULL	1 / 10	GSEA C2TAKAO_RESPONSE_TO_UVB_RADIATION_UP
14	-16.37	NULL	1 / 10	GSEA C2REACTOME_TRANSLATION
15	-15.82	NULL	2 / 20	Lymphoma OSOLOWSKI_red UP
16	-15.51	NULL	1 / 11	GSEA C2TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_DN
17	-14.81	NULL	4 / 13	Cancer GENTLES_modul17
18	-14.76	NULL	1 / 12	GSEA C2REACTOME_FORMATION_OF_THE_TERNARY_COMPLEX_AN
19	-14.76	NULL	1 / 12	GSEA C2REACTOME_INSULIN_SYNTHESIS_AND_SECRETION
20	-14.76	NULL	1 / 12	GSEA C2REACTOME_TRANSLATION_INITIATION_COMPLEX_FORMATI
21	-14.32	NULL	3 / 13	H.Tiss WIRTH_Sec. lymphoid organs
22	-14.11	NULL	1 / 13	GSEA C2KANG_IMMORTALIZED_BY_TERT_UP
23	-14.11	NULL	1 / 13	GSEA C2YAMASHITA_LIVER_CANCER_WITH_EPCAM_UP
24	-13.66	NULL	1 / 6	GSEA C2TRAYNOR_RETT_SYNDROM_DN
25	-13.08	NULL	4 / 14	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_LUNG_DN
26	-13.02	NULL	1 / 15	GSEA C2FERRANDO_T_ALL_WITH_MLL_ENL_FUSION_DN
27	-12.55	NULL	1 / 16	GSEA C2CROONQUIST_STROMAL_STIMULATION_UP
28	-12.55	NULL	1 / 16	GSEA C2CROONQUIST_NRAS_VS_STROMAL_STIMULATION_DN
29	-12.17	NULL	1 / 5	GSEA C2DONATO_CELL_CYCLE_TRETINOIN
30	-12.05	NULL	2 / 11	BP negative regulation of smooth muscle cell migration
31	-12.01	NULL	2 / 5	GSEA C2NAKAMURA_ALVEOLAR_EPITHELIUM
32	-11.78	NULL	2 / 34	Chr Chr Y
33	-11.61	NULL	2 / 8	GSEA C2LEE_SP4_THYMOCYTE
34	-11.31	NULL	3 / 15	GSEA C2NADERI_BREAST_CANCER_PROGNOSIS_DN
35	-11.29	NULL	3 / 27	BP negative regulation of smooth muscle cell proliferation
36	-11.28	NULL	2 / 12	BP regulation of glucose metabolic process
37	-11.24	NULL	3 / 14	GSEA C2SMID_BREAST_CANCER_LUMINAL_A_UP
38	-10.94	NULL	2 / 15	GSEA C2ABE_INNER_EAR
39	-10.77	NULL	1 / 21	CC polysome
40	-10.51	NULL	3 / 10	BP germ cell migration

p-values



# GW\_234

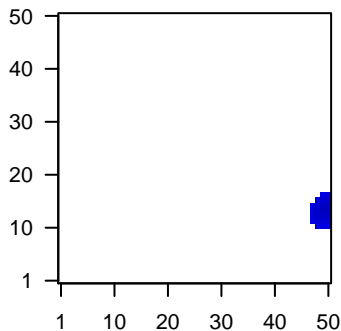
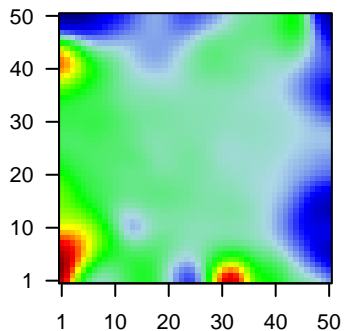
## Local Summary

%DE = 0.72  
 # metagenes = 24  
 # genes = 259  
 # genes in genesets = 256  
 # genes with  $fdr < 0.1$  = 117 ( 9 + / 108 - )  
 # genes with  $fdr < 0.05$  = 80 ( 5 + / 75 - )  
 # genes with  $fdr < 0.01$  = 64 ( 4 + / 60 - )

<r> metagenes = 0.92  
 <r> genes = 0.28  
 <FC> = -0.27  
 <shrinkage-t> = -9.35  
 <p-value> = 0.01  
 <fdr> = 0.65

Profile

Spot



## Local Genelist

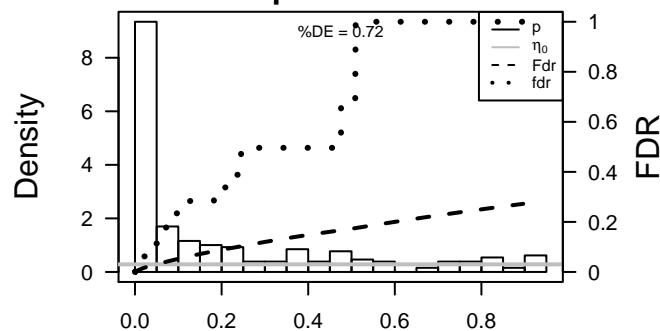
Rank	ID	log(FC)	fdr	p-value	Description
1	79085	-1.1	2e-13	3e-10	50 x 13 solute carrier family 25 (mitochondrial carrier; phosphate carr
2	10439	-1.03	5e-12	9e-10	50 x 17 olfactomedin 1 [Source:HGNC Symbol;Acc:17187]
3	94025	1.01	2e-11	2e-08	50 x 11 mucin 16, cell surface associated [Source:HGNC Symbol;Acc
4	909	-0.94	3e-10	5e-08	50 x 16 CD1a molecule [Source:HGNC Symbol;Acc:1634]
5	8857	0.9	2e-09	5e-08	50 x 13 Fc fragment of IgG binding protein [Source:HGNC Symbol;Acc
6	10232	-0.9	2e-09	2e-07	50 x 11 mesothelin [Source:HGNC Symbol;Acc:7371]
7	23521	-0.88	4e-09	4e-07	47 x 12 ribosomal protein L13a [Source:HGNC Symbol;Acc:10304]
8	23171	-0.86	1e-08	4e-07	50 x 12 glycerol-3-phosphate dehydrogenase 1-like [Source:HGNC
9	6542	-0.85	1e-08	3e-06	50 x 16 solute carrier family 7 (cationic amino acid transporter, y+ sys
10	79161	-0.81	6e-08	3e-06	49 x 16 transmembrane protein 243, mitochondrial [Source:HGNC Sy
11	3248	-0.8	1e-07	3e-06	50 x 13 hydroxyprostaglandin dehydrogenase 15-(NAD) [Source:HGI
12	3670	0.78	2e-07	3e-06	50 x 17 ISL LIM homeobox 1 [Source:HGNC Symbol;Acc:6132]
13	2205	-0.78	2e-07	3e-06	50 x 13 Fc fragment of IgE, high affinity I, receptor for; alpha polypept
14	6414	-0.78	2e-07	3e-05	48 x 11 selenoprotein P, plasma, 1 [Source:HGNC Symbol;Acc:10751]
15	260293	-0.75	6e-07	3e-05	50 x 14 cytochrome P450, family 4, subfamily X, polypeptide 1 [Sourc
16	83699	-0.73	1e-06	3e-05	50 x 11 SH3 domain binding glutamic acid-rich protein like 2 [Source
17	2568	-0.71	2e-06	3e-05	50 x 13 gamma-aminobutyric acid (GABA) A receptor, pi [Source:HG
18	23401	-0.7	2e-06	3e-05	50 x 14 frequently rearranged in advanced T-cell lymphomas 2 [Sour
19	4602	-0.7	3e-06	3e-05	50 x 16 v-myb avian myeloblastosis viral oncogene homolog [Source
20	114915	-0.7	3e-06	3e-05	47 x 14 EPB41L4A antisense RNA 1 [Source:HGNC Symbol;Acc:307

## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-15.06	NULL	5 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_A
2	-10.9	NULL	1 / 3	miRNA 3408C-210
3	-10.72	NULL	2 / 9	GSEA C2MONTERO_THYROID_CANCER_POOR_SURVIVAL_DN
4	-10.49	NULL	3 / 16	GSEA C2DOANE_BREAST_CANCER_ESR1_DN
5	-9.28	NULL	3 / 9	GSEA C2SOZGIT_ESR1_TARGETS_DN
6	-9.13	NULL	2 / 15	GSEA C2MASSARWEH_RESPONSE_TO ESTRADIOL
7	-9	NULL	1 / 2	TF MYC_Cell cycle DOWN
8	-8.66	NULL	4 / 9	GSEA C2REACTOME_ETHANOL_OXIDATION
9	-8.11	NULL	3 / 15	GSEA C2NAKAJIMA_MAST_CELL
10	-7.55	NULL	2 / 12	BP nitric oxide biosynthetic process
11	-7.21	NULL	4 / 21	BP drug metabolic process
12	-7.2	NULL	2 / 13	GSEA C2HUANG_DASATINIB_RESISTANCE_DN
13	-6.7	NULL	1 / 5	GSEA C2SMID_BREAST_CANCER_ERBB2_DN
14	-6.69	NULL	1 / 10	GSEA C2BROWNE_HCMV_INFECTION_12HR_UP
15	-6.69	NULL	1 / 10	GSEA C2XU_GH1_AUTOCRINE_TARGETS_DN
16	-6.66	NULL	2 / 12	GSEA C2PROVENZANI_METASTASIS_UP
17	-6.51	NULL	4 / 39	MF NAD binding
18	-6.3	NULL	2 / 14	GSEA C2NAKAYAMA_SOFT_TISSUE_TUMORS_PCA1_DN
19	-6.17	NULL	2 / 16	GSEA C2SHEDDEN_LUNG_CANCER_GOOD_SURVIVAL_A5
20	-6.11	NULL	1 / 7	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED
21	-6.04	NULL	2 / 16	GSEA C2HATADA_METHYLATED_IN_LUNG_CANCER_UP
22	-6.03	NULL	1 / 12	GSEA C2CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_4
23	-6.03	NULL	1 / 12	GSEA C2RIZKI_TUMOR_INVASIVENESS_3D_DN
24	-6.03	NULL	1 / 12	GSEA C2ZHANG_TARGETS_OF_EWSR1_FL1_FUSION
25	-5.9	NULL	2 / 12	GSEA C2CHIANG_LIVER_CANCER_SUBCLASS_INTERFERON_UP
26	-5.78	NULL	2 / 12	MF NAD+ binding
27	-5.76	NULL	1 / 13	GSEA C2COLDREN_GEFITINIB_RESISTANCE_UP
28	-5.76	NULL	1 / 13	GSEA C2STEIN_ESR1_TARGETS
29	-5.74	NULL	2 / 16	GSEA C2YANG_BREAST_CANCER_ESR1_DN
30	-5.74	NULL	3 / 11	BP DNA integration
31	-5.71	NULL	2 / 16	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATE
32	-5.65	NULL	1 / 10	CC large ribosomal subunit
33	-5.64	NULL	1 / 15	GSEA C2CORRE_MULTIPLE_MYELOMA_UP
34	-5.64	NULL	1 / 5	GSEA C2ZIRN_TRETINOIN_RESPONSE_WT1_DN
35	-5.58	NULL	7 / 92	BP viral life cycle
36	-5.52	NULL	1 / 14	GSEA C2POMEROY_MEDULLOBLASTOMA_DESMOPLASIC_VS_CLASS
37	-5.52	NULL	1 / 14	GSEA C2POMEROY_MEDULLOBLASTOMA_DESMOPLASIC_VS_CLASS
38	-5.52	NULL	1 / 14	GSEA C2MASSARWEH_TAMOXIFEN_RESISTANCE_DN
39	-5.52	NULL	1 / 14	GSEA C2STEIN_ESTROGEN_RESPONSE_NOT_VIA_ESRRA
40	-5.52	NULL	1 / 14	GSEA C2BROWNE_HCMV_INFECTION_16HR_UP

p-values



# GW\_234

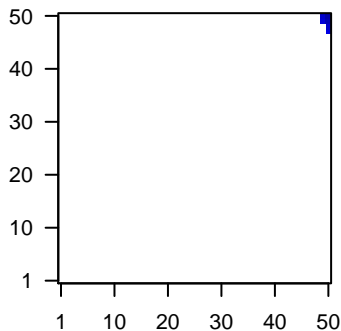
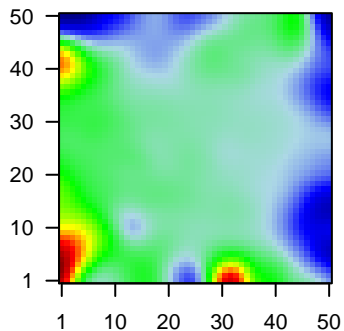
## Local Summary

%DE = 0.81  
 # metagenes = 6  
 # genes = 133  
 # genes in genesets = 132  
 # genes with fdr < 0.1 = 92 ( 7 + / 85 - )  
 # genes with fdr < 0.05 = 79 ( 6 + / 73 - )  
 # genes with fdr < 0.01 = 66 ( 6 + / 60 - )

<r> metagenes = 0.99  
 <r> genes = 0.3  
 <FC> = -0.38  
 <shrinkage-t> = -13.33  
 <p-value> = 0  
 <fdr> = 0.43

Profile

Spot



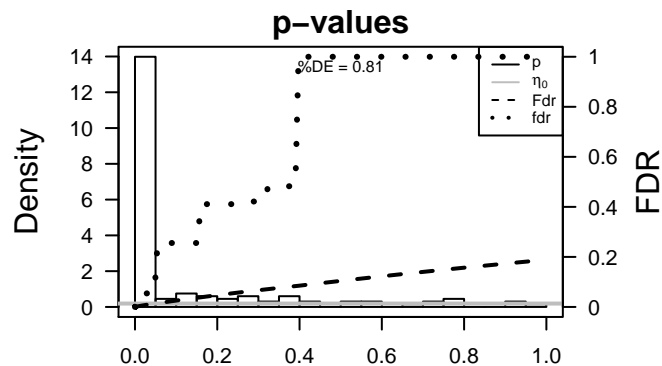
## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	216	-1.5	2e-16	8e-16	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC]
2	9076	-1.22	2e-16	8e-16	49 x 50 claudin 1 [Source:HGNC Symbol;Acc:2032]
3	3880	-1.63	2e-16	8e-16	50 x 49 keratin 19 [Source:HGNC Symbol;Acc:6436]
4	3856	1.31	2e-16	8e-16	50 x 48 keratin 8 pseudogene 3 [Source:HGNC Symbol;Acc:31056]
5	4922	-1.26	2e-16	8e-16	50 x 50 neurotensin [Source:HGNC Symbol;Acc:8038]
6	29968	-1.27	2e-16	8e-16	49 x 50 phosphoserine aminotransferase 1 [Source:HGNC Symbol;Acc:2032]
7	11166	-1.28	2e-16	8e-16	50 x 50 SRY (sex determining region Y)-box 21 [Source:HGNC Symbol;Acc:2032]
8	6657	-1.14	3e-14	5e-12	50 x 50 SRY (sex determining region Y)-box 2 [Source:HGNC Symbol;Acc:2032]
9	4780	-1.1	2e-13	7e-12	50 x 50 nuclear factor, erythroid 2-like 2 [Source:HGNC Symbol;Acc:2032]
10	154664	-1.08	5e-13	5e-10	50 x 50 ATP-binding cassette, sub-family A (ABC1), member 13 [Source:HGNC Symbol;Acc:26790]
11	256764	-1	2e-11	1e-09	50 x 50 WD repeat domain 72 [Source:HGNC Symbol;Acc:26790]
12	655	0.98	7e-11	6e-09	50 x 50 bone morphogenetic protein 7 [Source:HGNC Symbol;Acc:1001]
13	2222	-0.94	3e-10	2e-08	50 x 50 farnesyl-diphosphate farnesyltransferase 1 [Source:HGNC Symbol;Acc:1001]
14	10966	-0.91	1e-09	3e-07	50 x 50 RAB40B, member RAS oncogene family [Source:HGNC Symbol;Acc:3093]
15	84707	-0.85	1e-08	6e-07	50 x 48 brain expressed X-linked 2 [Source:HGNC Symbol;Acc:3093]
16	56922	-0.82	4e-08	7e-07	50 x 50 methylcrotonoyl-CoA carboxylase 1 (alpha) [Source:HGNC Symbol;Acc:1001]
17	339512	-0.81	7e-08	7e-07	50 x 50 chromosome 1 open reading frame 110 [Source:HGNC Symbol;Acc:1001]
18	4915	-0.79	1e-07	7e-07	50 x 50 neurotrophic tyrosine kinase, receptor, type 2 [Source:HGNC Symbol;Acc:1001]
19	604	-0.79	1e-07	2e-06	50 x 50 B-cell CLL/lymphoma 6 [Source:HGNC Symbol;Acc:1001]
20	2947	-0.77	2e-07	2e-06	50 x 50 glutathione S-transferase mu 3 (brain) [Source:HGNC Symbol;Acc:1001]

## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-27.15	NULL	3 / 8	GSEA C2JUCDX2_TARGETS_DN
2	-20.1	NULL	2 / 7	GSEA C2MCCOLLUM_GELDANAMYCIN_RESISTANCE_DN
3	-14.76	NULL	1 / 2	miRNA target-127
4	-13.7	NULL	1 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_DN
5	-13.7	NULL	1 / 6	GSEA C2KAPOSI_LIVER_CANCER_POOR_SURVIVAL_DN
6	-12.78	NULL	5 / 15	GSEA C2KEGG_Glutathione_Metabolism
7	-12.48	NULL	1 / 7	GSEA C2FREDERICK_PRKCI_TARGETS
8	-12.31	NULL	3 / 16	GSEA C2BOYALTY_LIVER_CANCER_SUBCLASS_G1_DN
9	-12.27	NULL	2 / 10	GSEA C2CONRAD_STEM_CELL
10	-11.07	NULL	3 / 11	MF glutathione binding
11	-11.07	NULL	3 / 11	GSEA C2KEGG_DRUG_Metabolism_Cytochrome_P450
12	-11.03	NULL	8 / 34	BP glutathione metabolic process
13	-10.86	NULL	3 / 13	BP regulation of blood vessel size
14	-10.75	NULL	1 / 9	GSEA C2ABDULRAHMAN_KIDNEY_CANCER_VHL_DN
15	-10.75	NULL	1 / 9	GSEA C2REACTOME_ETHANOL_Oxidation
16	-10.72	NULL	3 / 12	GSEA C2BROCKE_APOPTOSIS_REVERSED_BY_IL6
17	-10.42	NULL	1 / 11	GSEA C2WHITESIDE_CISPLATIN_RESISTANCE_DN
18	-10.37	NULL	6 / 25	BP glutathione derivative biosynthetic process
19	-10.33	NULL	4 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
20	-10.21	NULL	2 / 23	BP stem cell differentiation
21	-10.11	NULL	1 / 10	GSEA C2MAINA_VHL_TARGETS_UP
22	-10.11	NULL	1 / 10	GSEA C2FRIDMAN_SENESCENCE_DN
23	-9.59	NULL	2 / 9	GSEA C2REACTOME_Metabolism_of_Amino_Acids
24	-9.45	NULL	1 / 13	GSEA C2CHEN_LUNG_CANCER_SURVIVAL
25	-9.44	NULL	1 / 7	GSEA C2REACTOME_G1_S_TRANSITION
26	-9.44	NULL	1 / 7	miRNA target-145
27	-9.31	NULL	5 / 20	MF glutathione transferase activity
28	-9.06	NULL	1 / 14	GSEA C2JIANG_SILENCED_BY_METHYLATION_UP
29	-8.99	NULL	2 / 12	BP cellular aldehyde metabolic process
30	-8.87	NULL	4 / 13	GSEA C2KEGG_Metabolism_of_Xenobiotics_by_Cytochrome_P450
31	-8.71	NULL	1 / 8	GSEA C2REACTOME_E2F_TRANSCRIPTIONAL_TARGETS_AT_G1_S
32	-8.71	NULL	1 / 8	miRNA target-450
33	-8.7	NULL	1 / 15	GSEA C2LEE_SKI_TARGETS_UP
34	-8.7	NULL	1 / 15	GSEA C2LEE_LIVER_CANCER_HEPATOBLAST
35	-8.39	NULL	1 / 8	MMML C2CIEJ_MMML_50
36	-8.38	NULL	1 / 16	CC dystrophin-associated glycoprotein complex
37	-8.38	NULL	1 / 16	GSEA C2DORN_ADENOVIRUS_INFECTION_12HR_UP
38	-8.3	NULL	1 / 14	MF Ras GTPase activator activity
39	-8.3	NULL	1 / 14	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED
40	-8.3	NULL	1 / 14	GSEA C2MAHADEVAN_IMATINIB_RESISTANCE_UP



# GW\_234

## Local Summary

%DE = 0.73  
 # metagenes = 20  
 # genes = 314  
 # genes in genesets = 309

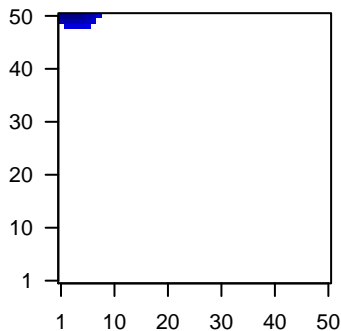
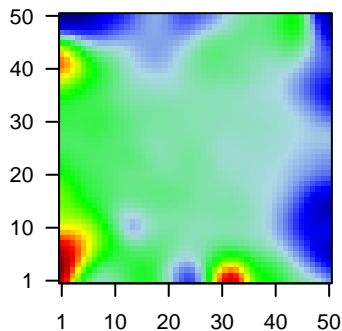
# genes with  $fdr < 0.1$  = 170 ( 19 + / 151 - )  
 # genes with  $fdr < 0.05$  = 152 ( 18 + / 134 - )  
 # genes with  $fdr < 0.01$  = 128 ( 16 + / 112 - )

<r> metagenes = 0.97  
 <r> genes = 0.41

<FC> = -0.33  
 <shrinkage-t> = -11.62  
 <p-value> = 0  
 <fdr> = 0.49

Profile

Spot



## Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	131	-2.52	2e-16	2e-15	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
2	218	-1.64	2e-16	2e-15	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC]
3	1577	-1.38	2e-16	2e-15	4 x 50 cytochrome P450, family 3, subfamily A, polypeptide 5 [Sourc
4	92196	-1.71	2e-16	2e-15	3 x 50 death associated protein-like 1 [Source:HGNC Symbol;Acc:2
5	51228	-1.12	2e-16	2e-15	2 x 50 glycolipid transfer protein [Source:HGNC Symbol;Acc:24867]
6	2877	-2.5	2e-16	2e-15	1 x 50 glutathione peroxidase 2 (gastrointestinal) [Source:HGNC Sy
7	3851	-1.95	2e-16	2e-15	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]
8	51195	-1.39	2e-16	2e-15	5 x 50 Rap guanine nucleotide exchange factor (GEF)-like 1 [Sourc
9	6947	1.79	2e-16	2e-15	2 x 50 transcobalamin I (vitamin B12 binding protein, R binder family
10	1050	-1.21	9e-16	3e-14	6 x 50 CCAAT/enhancer binding protein (C/EBP), alpha [Source:HG
11	6337	-1.19	2e-15	3e-14	3 x 50 sodium channel, non-voltage-gated 1 alpha subunit [Source:
12	100134938	-1.19	2e-15	3e-14	6 x 50 polymerase (RNA) II (DNA directed) polypeptide J3 [Source:t
13	6701	-1.19	2e-15	8e-14	1 x 49 small proline-rich protein 2B [Source:HGNC Symbol;Acc:112
14	84290	-1.18	3e-15	1e-12	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
15	1475	-1.15	2e-14	1e-12	1 x 50 cystatin A (stefin A) [Source:HGNC Symbol;Acc:2481]
16	1999	-1.14	3e-14	2e-11	5 x 50 E74-like factor 3 (ets domain transcription factor, epithelial-s
17	3157	-1.09	3e-13	2e-10	7 x 50 3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble) [Sourc
18	1622	-1.05	3e-12	2e-10	6 x 50 diazepam binding inhibitor (GABA receptor modulator, acyl-C
19	6286	-1.03	5e-12	7e-10	1 x 50 S100 calcium binding protein P [Source:HGNC Symbol;Acc:1
20	114569	-1.01	1e-11	7e-10	4 x 50 mal, T-cell differentiation protein 2 (gene/pseudogene) [Sourc

## Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-30.97	NULL	74 / 135	H.Tiss WIRTH_Mucosa
2	-17.37	NULL	5 / 10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
3	-14.24	NULL	1 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_B_DN
4	-13.21	NULL	3 / 11	GSEA C2KEGG_DRUG_METABOLISM_CYTOCHROME_P450
5	-12.6	NULL	5 / 15	MF retinol dehydrogenase activity
6	-12.33	NULL	7 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
7	-12.22	NULL	3 / 14	GSEA C2KEGG_PHENYLALANINE_METABOLISM
8	-12.04	NULL	3 / 13	GSEA C2KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME
9	-11.67	NULL	1 / 2	Cancer GENTLES_modul8
10	-11.61	NULL	4 / 14	GSEA C2KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP
11	-11.32	NULL	1 / 9	GSEA C2REACTOME_ETHANOL_OXIDATION
12	-11.18	NULL	3 / 12	BP cellular aldehyde metabolic process
13	-10.73	NULL	3 / 11	GSEA C2REACTOME_XENOBIOTICS
14	-10.69	NULL	2 / 14	MF glutathione peroxidase activity
15	-10.4	NULL	2 / 9	GSEA C2REACTOME_CYTOCHROME_P450_ARRANGED_BY_SUBSTRA
16	-10.4	NULL	2 / 9	GSEA C2REACTOME_PHASE_1_FUNCTIONALIZATION_OF_COMPOUN
17	-10.03	NULL	2 / 13	BP retinoic acid metabolic process
18	-9.73	NULL	8 / 15	GSEA C2WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCE
19	-9.63	NULL	1 / 12	MF retinol binding
20	-9.28	NULL	2 / 11	GSEA C2REACTOME_BIOLOGICAL_OXIDATIONS
21	-9.12	NULL	1 / 13	BP temperature homeostasis
22	-9.05	NULL	14 / 21	CC cornified envelope
23	-8.91	NULL	19 / 53	BP keratinocyte differentiation
24	-8.71	NULL	76 / 572	Disease GUDJ_poriasis up
25	-8.52	NULL	4 / 18	BP retinol metabolic process
26	-8.29	NULL	8 / 38	BP epithelial cell differentiation
27	-8.09	NULL	2 / 10	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_UP
28	-8.06	NULL	5 / 39	BP retinoid metabolic process
29	-7.94	NULL	3 / 16	miRNA target network
30	-7.79	NULL	2 / 7	GSEA C2KEGG_STEROID_HORMONE_BIOSYNTHESIS
31	-7.64	NULL	4 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
32	-7.62	NULL	4 / 13	GSEA C2CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL
33	-7.44	NULL	10 / 119	BP xenobiotic metabolic process
34	-7.41	NULL	3 / 16	GSEA C2FRASOR_TAMOXIFEN_RESPONSE_UP
35	-7.32	NULL	17 / 76	BP epidermis development
36	-7.29	NULL	1 / 9	GSEA C2NIKOLSKY_BREAST_CANCER_17P11_AMPLICON
37	-7.27	NULL	20 / 434	BP oxidation-reduction process
38	-7.25	NULL	4 / 35	MF monoxygenase activity
39	-7.15	NULL	3 / 16	CC microvillus membrane
40	-7.15	NULL	6 / 44	BP steroid metabolic process

p-values

