

GW_063

Global Summary

%DE = 0.13
 # genes with fdr < 0.2 = 1580 (968 + / 612 -)
 # genes with fdr < 0.1 = 1141 (744 + / 397 -)
 # genes with fdr < 0.05 = 919 (637 + / 282 -)
 # genes with fdr < 0.01 = 661 (489 + / 172 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.12
 <fdr> = 0.87

Global Genelist

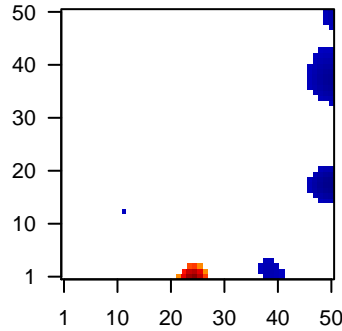
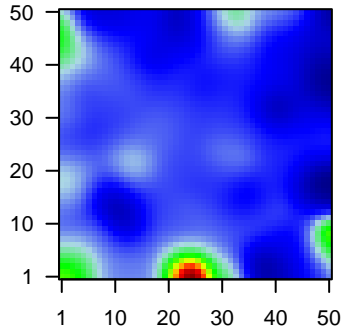
Rank	ID	log(FC)	fdr	p-value	Description
1	58	5.35	2e-16	2e-14	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
2	70	3.49	2e-16	2e-14	25 x 1 actin, alpha, cardiac muscle 1 [Source:HGNC Symbol;Acc:14
3	10551	2.19	2e-16	2e-14	50 x 10 anterior gradient 2 [Source:HGNC Symbol;Acc:328]
4	501	-1.69	2e-16	2e-14	6 x 46 aldehyde dehydrogenase 7 family, member A1 [Source:HGNC
5	270	1.62	2e-16	2e-14	50 x 7 adenosine monophosphate deaminase 1 [Source:HGNC Syrr
6	27063	1.48	2e-16	2e-14	25 x 1 ankyrin repeat domain 1 (cardiac muscle) [Source:HGNC Syr
7	10930	1.95	2e-16	2e-14	25 x 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide
8	347	3.05	2e-16	2e-14	50 x 7 apolipoprotein D [Source:HGNC Symbol;Acc:612]
9	140458	2.05	2e-16	2e-14	25 x 1 ankyrin repeat and SOCS box containing 5 [Source:HGNC S]
10	618	1.5	2e-16	2e-14	39 x 1 brain cytoplasmic RNA 1 [Source:HGNC Symbol;Acc:1022]
11	80341	1.88	2e-16	2e-14	50 x 10 BPI fold containing family B, member 2 [Source:HGNC Symb
12	64073	1.58	2e-16	2e-14	1 x 46 chromosome 19 open reading frame 33 [Source:HGNC Synt
13	92747	4.32	2e-16	2e-14	50 x 10 BPI fold containing family B, member 1 [Source:HGNC Symb
14	352999	2.82	2e-16	2e-14	50 x 10 chromosome 6 open reading frame 58 [Source:HGNC Symbc
15	23589	1.53	2e-16	2e-14	1 x 46 calcium regulated heat stable protein 1, 24kDa [Source:HGNC
16	845	1.6	2e-16	2e-14	25 x 1 calsequestrin 2 (cardiac muscle) [Source:HGNC Symbol;Acc:
17	1675	2.16	2e-16	2e-14	50 x 9 complement factor D (adipsin) [Source:HGNC Symbol;Acc:27
18	1158	4.09	2e-16	2e-14	25 x 1 creatine kinase, muscle [Source:HGNC Symbol;Acc:1994]
19	1160	1.54	2e-16	2e-14	25 x 1 creatine kinase, mitochondrial 2 (sarcomeric) [Source:HGNC
20	202333	2.15	2e-16	2e-14	25 x 1 cardiomyopathy associated 5 [Source:HGNC Symbol;Acc:14:

Global Geneset Analysis

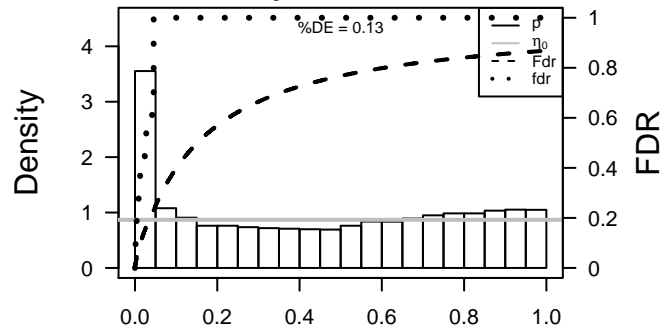
Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	33.54	NULL	127	H.Tiss WIRTH_Muscle
2	25.24	NULL	36	BP muscle filament sliding
3	24.81	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
4	22.69	NULL	16	H.Tiss WIRTH_Hippocampus
5	19.75	NULL	44	MF structural constituent of muscle
6	16.16	NULL	84	BP muscle contraction
7	15.38	NULL	12	CC myosin filament
8	15.1	NULL	1182	CC extracellular region
9	14.32	NULL	683	CC extracellular space
10	14.15	NULL	572	Disease GUDJ_pсориазis up
11	13.2	NULL	37	CC sarcomere
12	12.56	NULL	14	CC contractile fiber
13	12.53	NULL	88	CC Z disc
14	12.48	NULL	34	CC myofibril
15	12.19	NULL	16	CC M band
16	12.03	NULL	16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
17	11.36	NULL	13	CC muscle myosin complex
18	11.14	NULL	20	CC I band
19	10.8	NULL	12	BP skeletal muscle contraction
20	9.9	NULL	15	GSEA C2REACTOME_STRIATED_MUSCLE_CONTRACTION
<i>Underexpressed</i>				
1	-11.2	NULL	1749	MF DNA binding
2	-10.07	NULL	1581	BP regulation of transcription, DNA-dependent
3	-9.81	NULL	1574	BP transcription, DNA-templated
4	-8.48	NULL	504	Chr Chr 15
5	-7.94	NULL	4640	CC nucleus
6	-7.91	NULL	823	MF sequence-specific DNA binding transcription factor activity
7	-7.1	NULL	940	MF nucleic acid binding
8	-6.67	NULL	10	GSEA C2CHASSOT_SKIN_WOUND
9	-6.3	NULL	318	MF chromatin binding
10	-6.25	NULL	280	Chr Chr 13
11	-6.18	NULL	500	MF sequence-specific DNA binding
12	-5.72	NULL	24	TF Tissue/AQUERIZAS_Trachea
13	-5.63	NULL	368	miRNA target-star-1301
14	-5.59	NULL	1820	MF metal ion binding
15	-5.47	NULL	314	miRNA target-star-130A--301--130B
16	-5.36	NULL	391	miRNA target-star-181A--181B--181C--181D
17	-5.31	NULL	319	miRNA target-star-307
18	-5.27	NULL	186	miRNA target-star-302
19	-5.22	NULL	300	miRNA target-star-50c-3p
20	-5.19	NULL	381	miRNA target-star-Base

Profile

Regulated Spots



p-values



GW_063

Local Summary

%DE = 0.99
 # metagenes = 14
 # genes = 116
 # genes in genesets = 116

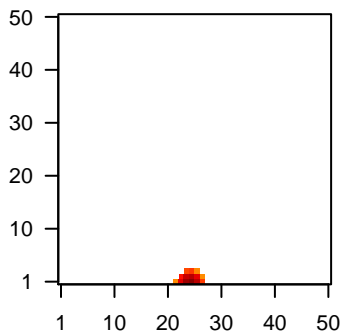
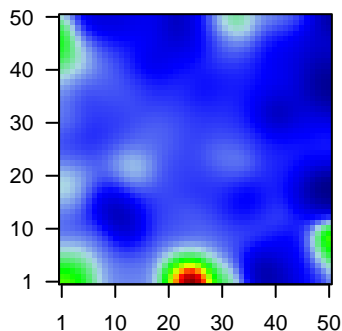
genes with $fdr < 0.1 = 112$ (112 + / 0 -)
 # genes with $fdr < 0.05 = 112$ (112 + / 0 -)
 # genes with $fdr < 0.01 = 112$ (112 + / 0 -)

<r> metagenes = 0.98
 <r> genes = 0.62

<FC> = 1.57
 <shrinkage-t> = 55.06
 <p-value> = 0
 <fdr> = 0.04

Profile

Spot



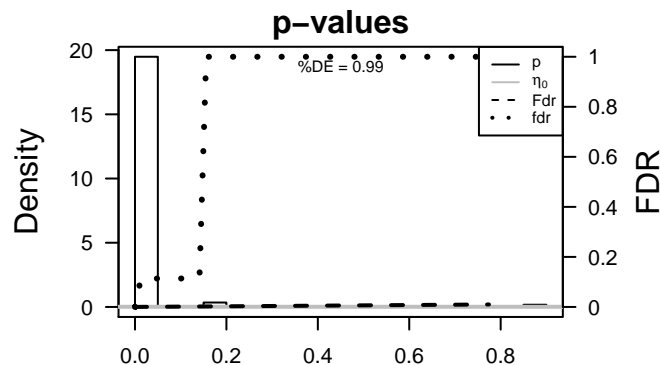
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	58	5.35	2e-16	6e-18	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12
2	70	3.49	2e-16	6e-18	25 x 1 actin, alpha, cardiac muscle 1 [Source:HGNC Symbol;Acc:14
3	27063	1.48	2e-16	6e-18	25 x 1 ankyrin repeat domain 1 (cardiac muscle) [Source:HGNC Syr
4	10930	1.95	2e-16	6e-18	25 x 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide
5	140458	2.05	2e-16	6e-18	25 x 1 ankyrin repeat and SOCS box containing 5 [Source:HGNC S
6	845	1.6	2e-16	6e-18	25 x 1 calsequestrin 2 (cardiac muscle) [Source:HGNC Symbol;Acc:
7	1158	4.09	2e-16	6e-18	25 x 1 creatine kinase, muscle [Source:HGNC Symbol;Acc:1994]
8	1160	1.54	2e-16	6e-18	25 x 1 creatine kinase, mitochondrial 2 (sarcomeric) [Source:HGNC
9	202333	2.15	2e-16	6e-18	25 x 1 cardiomyopathy associated 5 [Source:HGNC Symbol;Acc:14
10	1346	1.95	2e-16	6e-18	25 x 1 cytochrome c oxidase subunit VIIa polypeptide 1 (muscle) [Sc
11	1410	1.82	2e-16	6e-18	25 x 1 crystallin, alpha B [Source:HGNC Symbol;Acc:2389]
12	8048	1.66	2e-16	6e-18	25 x 1 cysteine and glycine-rich protein 3 (cardiac LIM protein) [Sou
13	115265	2.02	2e-16	6e-18	25 x 1 DNA-damage-inducible transcript 4-like [Source:HGNC Syr
14	23109	1.62	2e-16	6e-18	25 x 1 dendrin [Source:HGNC Symbol;Acc:24458]
15	1674	1.9	2e-16	6e-18	25 x 1 desmin [Source:HGNC Symbol;Acc:2770]
16	1917	2.34	2e-16	6e-18	25 x 1 eukaryotic translation elongation factor 1 alpha 2 [Source:HG
17	2027	2.23	2e-16	6e-18	25 x 1 enolase 3 (beta, muscle) [Source:HGNC Symbol;Acc:3354]
18	2273	2.64	2e-16	6e-18	25 x 1 four and a half LIM domains 1 [Source:HGNC Symbol;Acc:37
19	2318	2.68	2e-16	6e-18	25 x 1 filamin C, gamma [Source:HGNC Symbol;Acc:3756]
20	283120	1.54	2e-16	6e-18	25 x 1 H19, imprinted maternally expressed transcript (non-protein t

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	64.21	NULL	60 / 127	H.Tiss WIRTH_Muscle
2	57.42	NULL	11 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_F
3	56.69	NULL	23 / 36	BP muscle filament sliding
4	53.78	NULL	11 / 16	H.Tiss WIRTH_Hippocampus
5	43.59	NULL	23 / 44	MF structural constituent of muscle
6	41.36	NULL	10 / 12	CC myosin filament
7	32.9	NULL	8 / 14	CC contractile fiber
8	31.63	NULL	23 / 84	BP muscle contraction
9	28.1	NULL	8 / 13	CC muscle myosin complex
10	27.73	NULL	12 / 37	CC sarcomere
11	26.8	NULL	6 / 12	BP skeletal muscle contraction
12	26.57	NULL	8 / 16	CC M band
13	26.51	NULL	15 / 34	CC myofibril
14	24.13	NULL	21 / 88	CC Z disc
15	23.08	NULL	5 / 11	BP cardiac muscle tissue morphogenesis
16	23.08	NULL	9 / 20	CC I band
17	23.04	NULL	7 / 12	MF titin binding
18	21.07	NULL	2 / 6	GSEA C2BIOCARTA_HSP27_PATHWAY
19	19.94	NULL	7 / 15	GSEA C2REACTOME_STRIATED_MUSCLE_CONTRACTION
20	19.69	NULL	6 / 18	BP regulation of muscle contraction
21	19.55	NULL	9 / 37	BP cardiac muscle contraction
22	18.76	NULL	3 / 15	Cancer BEN-PORATH_UP
23	18.68	NULL	7 / 15	BP striated muscle contraction
24	16.6	NULL	4 / 11	CC A band
25	16.23	NULL	25 / 297	MF actin binding
26	14.33	NULL	4 / 15	GSEA C2BAUER_MYOGENIC_TARGETS_OF_PAX3_FOXO1_FUSION
27	14.26	NULL	3 / 13	CC pseudopodium
28	14.12	NULL	2 / 20	MF myosin binding
29	13.68	NULL	1 / 9	GSEA C2PENG_GLUCOSE_DEPRIVATION_UP
30	13.68	NULL	1 / 9	GSEA C2PENG_GLUCOSE_DEPRIVATION_DN
31	13.49	NULL	2 / 10	BP creatine metabolic process
32	13.47	NULL	2 / 16	GSEA C2SASSON_RESPONSE_TO_GONADOTROPHINS_DN
33	13.47	NULL	2 / 16	GSEA C2SASSON_RESPONSE_TO_FORSKOLIN_DN
34	13.31	NULL	2 / 14	GSEA C2BIOCARTA_UCALPAIN_PATHWAY
35	12.98	NULL	1 / 5	GSEA C2LIU_VAV3_PROSTATE_CARCINOGENESIS_UP
36	12.96	NULL	4 / 16	MF microfilament motor activity
37	12.82	NULL	1 / 10	GSEA C2BIOCARTA_EPHA4_PATHWAY
38	12.78	NULL	4 / 14	MF tropomyosin binding
39	12.77	NULL	2 / 15	GSEA C2BIOCARTA_INTEGRIN_PATHWAY
40	12.25	NULL	5 / 36	CC sarcoplasmic reticulum



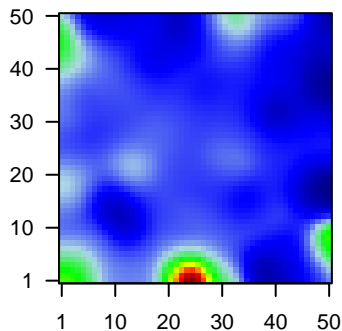
GW_063

Local Summary

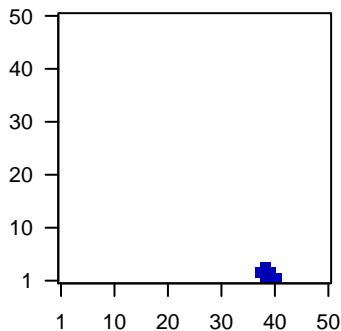
%DE = 0.57
 # metagenes = 15
 # genes = 240
 # genes in genesets = 214
 # genes with $fdr < 0.1$ = 62 (4 + / 58 -)
 # genes with $fdr < 0.05$ = 59 (4 + / 55 -)
 # genes with $fdr < 0.01$ = 38 (3 + / 35 -)

<r> metagenes = 0.99
 <r> genes = 0.5
 <FC> = -0.22
 <shrinkage-t> = -7.62
 <p-value> = 0.03
 <fdr> = 0.71

Profile



Spot



Local Genelist

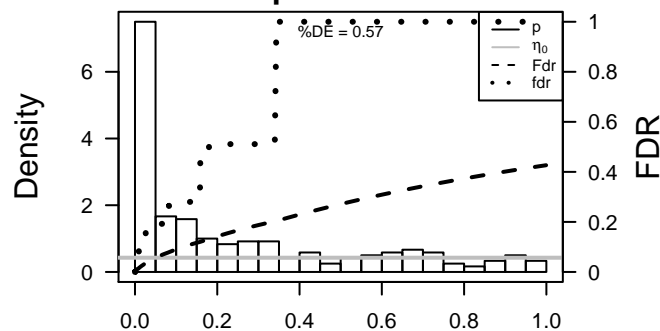
Rank	ID	log(FC)	fdr	p-value	Description
1	618	1.5	2e-16	1e-14	39 x 1 brain cytoplasmic RNA 1 [Source:HGNC Symbol;Acc:1022]
2	125050	1.98	2e-16	1e-14	40 x 1 RNA, 7SK small nuclear [Source:HGNC Symbol;Acc:10037]
3	100132406	-1.06	4e-09	3e-06	39 x 1 neuroblastoma breakpoint family, member 10 [Source:HGNC
4	440353	-1	3e-08	2e-05	40 x 1
5	100132247	-0.94	2e-07	1e-04	39 x 3 nuclear pore complex interacting protein family, member B5 [
6	727866	-0.87	1e-06	6e-04	38 x 3 family with sequence similarity 156, member B [Source:HGNC
7	728404	-0.8	9e-06	6e-04	39 x 2 ArfGAP with GTPase domain, ankyrin repeat and PH domain
8	155060	-0.78	2e-05	6e-04	39 x 4
9	613037	-0.77	2e-05	6e-04	40 x 2 nuclear pore complex interacting protein family, member B5 [
10	400818	-0.75	3e-05	6e-04	40 x 1 Neuroblastoma breakpoint family member 1 [Source:UniProt
11	114785	-0.75	3e-05	6e-04	39 x 1 methyl-CpG binding domain protein 6 [Source:HGNC Symbo
12	440348	-0.75	4e-05	6e-04	39 x 3 nuclear pore complex interacting protein family, member B15
13	9905	-0.74	4e-05	9e-04	40 x 2 small G protein signaling modulator 2 [Source:HGNC Symbol
14	100128288	-0.73	5e-05	1e-03	39 x 1
15	158399	-0.72	7e-05	1e-03	39 x 1 zinc finger protein 483 [Source:HGNC Symbol;Acc:23384]
16	115703	-0.71	8e-05	1e-03	41 x 1 Rho GTPase activating protein 33 [Source:HGNC Symbol;Ac
17	91368	-0.65	8e-05	2e-03	39 x 1 CDKN2A interacting protein N-terminal like [Source:HGNC S
18	81033	-0.64	1e-04	2e-03	39 x 1 potassium voltage-gated channel, subfamily H (eag-related),
19	728903	-0.69	1e-04	4e-03	39 x 1
20	401261	0.67	2e-04	4e-03	41 x 1

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-7.1	NULL	2 / 11	GSEA C2GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_E
2	-6.49	NULL	2 / 12	GSEA C2CAFFAREL_RESPONSE_TO_THC_8HR_5_UP
3	-5.73	NULL	2 / 19	MF mitogen-activated protein kinase kinase binding
4	-5.56	NULL	3 / 16	GSEA C2HAMAL_APOPTOSIS_VIA_TRAIL_UP
5	-5.43	NULL	2 / 12	GSEA C2NIKOLSKY_BREAST_CANCER_12Q24_AMPLICON
6	-4.91	NULL	1 / 7	GSEA C2LIU_CMYB_TARGETS_DN
7	-4.91	NULL	1 / 7	GSEA C2KEGG_STEROID_HORMONE_BIOSYNTHESIS
8	-4.83	NULL	1 / 7	GSEA C2GENTILE_UV_LOW_DOSE_DN
9	-4.83	NULL	1 / 7	GSEA C2GENTILE_UV_LOW_DOSE_UP
10	-4.81	NULL	1 / 11	GSEA C2GARCIA_TARGETS_OF_FLU1_AND_DAX1_UP
11	-4.75	NULL	2 / 16	BP cognition
12	-4.62	NULL	1 / 12	miRNA target site
13	-4.56	NULL	1 / 10	CC oligosaccharyltransferase complex
14	-4.54	NULL	2 / 19	BP sprouting angiogenesis
15	-4.51	NULL	2 / 29	BP positive regulation of JUN kinase activity
16	-4.49	NULL	1 / 8	GSEA C2BARRIER_CANCER_RELAPSE_NORMAL_SAMPLE_DN
17	-4.47	NULL	2 / 20	MF ligand-dependent nuclear receptor binding
18	-4.38	NULL	1 / 12	MF Rac GTPase activator activity
19	-4.38	NULL	1 / 12	GSEA C2BARRIER_COLON_CANCER_RECURRENCE_DN
20	-4.38	NULL	1 / 12	GSEA C2MCCABE_HOXC6_TARGETS_CANCER_UP
21	-4.21	NULL	1 / 11	GSEA C2KIM_GASTRIC_CANCER_CHEMOSENSITIVITY
22	-4.18	NULL	2 / 15	GSEA C2ZHOU_INFLAMMATORY_RESPONSE_LIVE_DN
23	-4.18	NULL	2 / 15	GSEA C2ZHOU_INFLAMMATORY_RESPONSE_LPS_DN
24	-4.12	NULL	1 / 10	BP lung morphogenesis
25	-4.11	NULL	1 / 11	BP negative regulation of intracellular estrogen receptor signaling path
26	-4.03	NULL	1 / 10	GSEA C2REACTOME_TRANSFORMATION_OF_LANOSTEROL_TO_CHOL
27	-3.97	NULL	2 / 15	GSEA C2THUM_SYSTOLIC_HEART_FAILURE_DN
28	-3.94	NULL	1 / 13	MF magnesium ion transmembrane transporter activity
29	-3.92	NULL	1 / 8	GSEA C2IZUKA_LIVER_CANCER_PROGRESSION_L1_G1_DN
30	-3.92	NULL	1 / 8	GSEA C2KAYO_CALORIE_RESTRICTION_MUSCLE_DN
31	-3.92	NULL	1 / 6	GSEA C2TURJANSKI_MAPK8_AND_MAPK9_TARGETS
32	-3.9	NULL	1 / 11	CC axolemma
33	-3.86	NULL	1 / 15	GSEA C2ODONNELL_METASTASIS_UP
34	-3.83	NULL	1 / 13	GSEA C2LIU_THYROID_CANCER_PAX8_PPARG_UP
35	-3.82	NULL	1 / 11	MF C2H2 zinc finger domain binding
36	-3.82	NULL	1 / 10	BP negative regulation of JUN kinase activity
37	-3.82	NULL	2 / 11	GSEA C2STEIN_ESRRA_TARGETS_DN
38	-3.78	NULL	1 / 14	BP magnesium ion transport
39	-3.78	NULL	1 / 12	CC integrator complex
40	-3.78	NULL	1 / 12	BP snRNA processing

p-values



GW_063

Local Summary

%DE = 0.46
 # metagenes = 1
 # genes = 5
 # genes in genesets = 5
 # genes with $fdr < 0.1 = 1$ (0 + / 1 -)
 # genes with $fdr < 0.05 = 1$ (0 + / 1 -)
 # genes with $fdr < 0.01 = 0$ (0 + / 0 -)

<r> metagenes = NA

<r> genes = 0.34

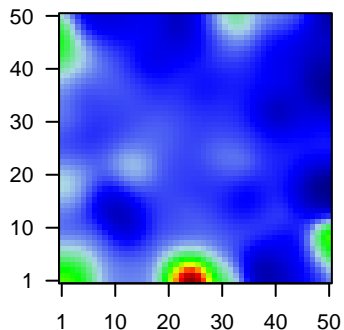
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<shrinkage-t> = -13.85

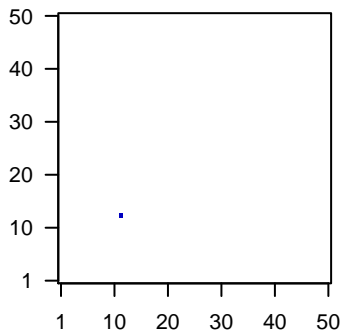
<p-value> = 0.01

<fdr> = 0.59

Profile



Spot



Local Genelist

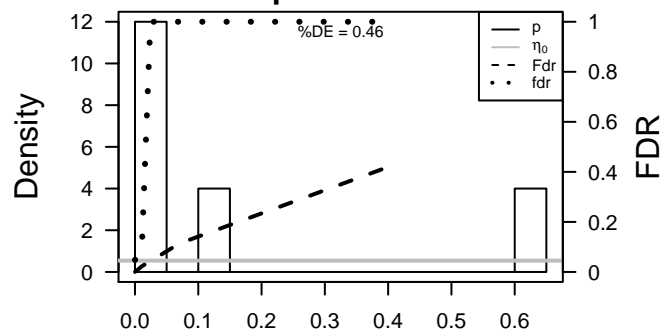
Rank	ID	log(FC)	p-value	fdr	Description
1	4088	-0.8	1e-05	0.05	12 x 13 SMAD family member 3 [Source:HGNC Symbol;Acc:6769]
2	54963	-0.43	2e-02	0.14	12 x 13 uridine-cytidine kinase 1-like 1 [Source:HGNC Symbol;Acc:1
3	26523	-0.38	4e-02	1.00	12 x 13 argonaute RISC catalytic component 1 [Source:HGNC Symb
4	154197	-0.29	1e-01	1.00	12 x 13 poly(A)-specific ribonuclease (PARN)-like domain containing
5	284339	-0.09	6e-01	1.00	12 x 13 transmembrane protein 145 [Source:HGNC Symbol;Acc:2691

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-45.41	NULL	1 / 8	GSEA C2EMELYANOV_GR_TARGETS_DN
2	-42.8	NULL	1 / 9	GSEA C2BIOCARTA_NTHL_PATHWAY
3	-40.6	NULL	1 / 10	MF co-SMAD binding
4	-40.6	NULL	1 / 10	BP positive regulation of transcription factor import into nucleus
5	-40.6	NULL	1 / 10	GSEA C2OUELLET_OVARIAN_CANCER_INVASIVE_VS_LMP_DN
6	-38.71	NULL	1 / 11	BP positive regulation of catenin import into nucleus
7	-38.71	NULL	1 / 11	BP positive regulation of positive chemotaxis
8	-38.71	NULL	1 / 11	BP regulation of epithelial cell proliferation
9	-38.71	NULL	1 / 11	MF transforming growth factor beta receptor binding
10	-38.71	NULL	1 / 11	GSEA C2GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_E
11	-38.71	NULL	1 / 11	GSEA C2TURJANSKI_MAPK1_AND_MAPK2_TARGETS
12	-37.05	NULL	1 / 12	GSEA C2REACTOME_SIGNALING_BY_TGF_BETA
13	-35.59	NULL	1 / 13	MF core promoter proximal region sequence-specific DNA binding
14	-35.59	NULL	1 / 13	BP regulation of transforming growth factor beta receptor signaling pat
15	-35.59	NULL	1 / 13	GSEA C2LAMB_CCND1_TARGETS
16	-35.59	NULL	1 / 13	GSEA C2TSAI_RESPONSE_TO_RADIATION_THERAPY
17	-34.29	NULL	1 / 14	BP positive regulation of chondrocyte differentiation
18	-34.29	NULL	1 / 14	BP positive regulation of focal adhesion assembly
19	-34.29	NULL	1 / 14	GSEA C2BIOCARTA_G1_PATHWAY
20	-34.29	NULL	1 / 14	GSEA C2BIOCARTA_TOB1_PATHWAY
21	-33.13	NULL	1 / 15	BP signal transduction involved in regulation of gene expression
22	-33.13	NULL	1 / 15	GSEA C2ZIRN_TRETINOIN_RESPONSE_WT1_UP
23	-33.13	NULL	1 / 15	GSEA C2BROWNE_HCMV_INFECTION_8HR_DN
24	-33.13	NULL	1 / 15	GSEA C2MARTINEZ_RESPONSE_TO TRABECTIDIN
25	-33.13	NULL	1 / 15	GSEA C2GENTILE_UV_RESPONSE_CLUSTER_D6
26	-33.13	NULL	1 / 15	GSEA C2BIOCARTA_TGFB_PATHWAY
27	-32.07	NULL	1 / 16	BP negative regulation of mitotic cell cycle
28	-32.07	NULL	1 / 16	GSEA C2FRASOR_RESPONSE_TO ESTRADIOL_DN
29	-31.11	NULL	1 / 17	BP embryonic pattern specification
30	-31.11	NULL	1 / 17	BP osteoblast development
31	-31.11	NULL	1 / 17	BP thyroid gland development
32	-29.41	NULL	1 / 19	BP positive regulation of epithelial to mesenchymal transition
33	-29.41	NULL	1 / 19	MF R-SMAD binding
34	-27.75	NULL	1 / 21	BP negative regulation of protein catabolic process
35	-26.91	NULL	1 / 22	BP release of cytochrome c from mitochondria
36	-26.13	NULL	1 / 23	MF chromatin DNA binding
37	-25.42	NULL	1 / 24	BP endoderm development
38	-25.42	NULL	1 / 24	TF Tissue/AQUERIZAS_Trachea
39	-24.76	NULL	1 / 25	BP gastrulation
40	-24.14	NULL	1 / 26	BP negative regulation of osteoblast differentiation

p-values



GW_063

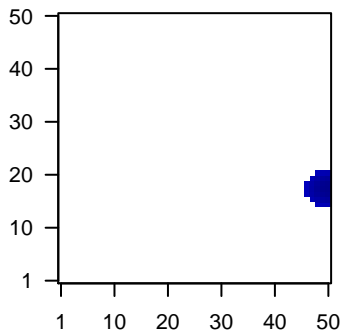
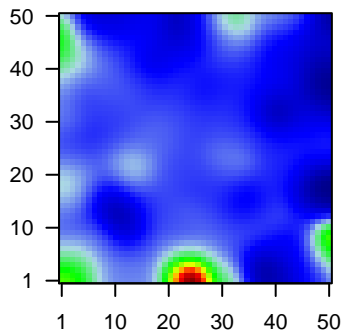
Local Summary

%DE = 0.63
 # metagenes = 29
 # genes = 274
 # genes in genesets = 269
 # genes with $fdr < 0.1$ = 90 (5 + / 85 -)
 # genes with $fdr < 0.05$ = 68 (5 + / 63 -)
 # genes with $fdr < 0.01$ = 36 (4 + / 32 -)

<r> metagenes = 0.97
 <r> genes = 0.31
 <FC> = -0.27
 <shrinkage-t> = -9.47
 <p-value> = 0.03
 <fdr> = 0.71

Profile

Spot



Local Genelist

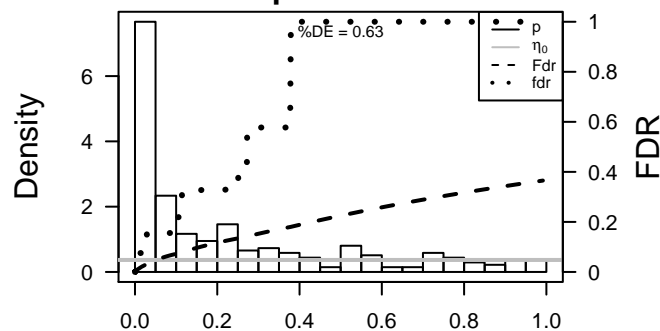
Rank	ID	log(FC)	fdr	p-value	Description
1	54959	1.18	6e-11	2e-08	50 x 17 odontogenic, ameloblast associated [Source:HGNC Symbol;Acc:21100]
2	26002	-1.15	2e-10	7e-08	50 x 16 monooxygenase, DBH-like 1 [Source:HGNC Symbol;Acc:21100]
3	1959	-1.11	9e-10	1e-05	50 x 19 early growth response 2 [Source:HGNC Symbol;Acc:3239]
4	56997	0.95	2e-07	1e-05	50 x 16 aarF domain containing kinase 3 [Source:HGNC Symbol;Acc:21100]
5	130872	-0.93	2e-07	2e-05	50 x 19 AHA1, activator of heat shock 90kDa protein ATPase homolog 1 [Source:HGNC Symbol;Acc:21100]
6	5569	0.91	5e-07	3e-04	50 x 16 protein kinase (cAMP-dependent, catalytic) inhibitor alpha [Source:HGNC Symbol;Acc:21100]
7	55082	-0.83	4e-06	3e-04	50 x 18 arginine and glutamate rich 1 [Source:HGNC Symbol;Acc:25472]
8	835	-0.81	8e-06	3e-04	49 x 18 caspase 2, apoptosis-related cysteine peptidase [Source:HGNC Symbol;Acc:21100]
9	3670	0.79	1e-05	3e-04	50 x 17 ISL LIM homeobox 1 [Source:HGNC Symbol;Acc:6132]
10	84532	-0.78	1e-05	3e-04	50 x 17 acyl-CoA synthetase short-chain family member 1 [Source:HGNC Symbol;Acc:21100]
11	8543	-0.78	2e-05	4e-04	50 x 15 LIM domain only 4 [Source:HGNC Symbol;Acc:6644]
12	23360	-0.77	2e-05	4e-04	50 x 20 formin binding protein 4 [Source:HGNC Symbol;Acc:19752]
13	63917	-0.75	3e-05	4e-04	50 x 16 UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyltransferase 1 [Source:HGNC Symbol;Acc:21100]
14	200030	-0.75	3e-05	4e-04	50 x 20 neuroblastoma breakpoint family, member 1 [Source:HGNC Symbol;Acc:21100]
15	648	-0.74	4e-05	4e-04	50 x 17 COMMD3-BMI1 readthrough [Source:HGNC Symbol;Acc:48100]
16	9847	-0.74	4e-05	4e-04	50 x 16 C2 calcium-dependent domain containing 5 [Source:HGNC Symbol;Acc:21100]
17	57189	-0.74	4e-05	8e-04	50 x 15 KIAA1147 [Source:HGNC Symbol;Acc:29472]
18	728715	-0.73	5e-05	8e-04	50 x 18
19	694	-0.67	6e-05	8e-04	50 x 18 B-cell translocation gene 1, anti-proliferative [Source:HGNC Symbol;Acc:21100]
20	23608	-0.72	6e-05	4e-03	47 x 16 makorin ring finger protein 1 [Source:HGNC Symbol;Acc:71100]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-9.9	NULL	3 / 5	Lymphoma ASCQUE_mBL_UP
2	-9.79	NULL	1 / 5	GSEA C2STAEGE_EWING_FAMILY_TUMOR
3	-9.29	NULL	3 / 15	GSEA C2FAELT_B_CLL_WITH_VH3_21_DN
4	-8.39	NULL	1 / 3	GSEA C2MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_30
5	-7.7	NULL	2 / 13	GSEA C2BROWNE_HCMV_INFECTION_48HR_DN
6	-7.58	NULL	3 / 13	BP histone H4-K16 acetylation
7	-7.43	NULL	10 / 81	miRNA target starBase
8	-7.41	NULL	2 / 11	MF poly(A)-specific ribonuclease activity
9	-7.4	NULL	1 / 9	GSEA C2RODWELL_AGING_KIDNEY_UP
10	-7.36	NULL	3 / 10	CC nBAF complex
11	-7.24	NULL	6 / 53	miRNA target starBase
12	-7.13	NULL	1 / 9	GSEA C2ABE_VEGFA_TARGETS_30MIN
13	-7.01	NULL	3 / 15	BP histone H4-K5 acetylation
14	-7.01	NULL	3 / 15	BP histone H4-K8 acetylation
15	-6.98	NULL	3 / 11	CC npBAF complex
16	-6.98	NULL	1 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_
17	-6.98	NULL	2 / 14	BP regulation of cysteine-type endopeptidase activity involved in apopto
18	-6.87	NULL	2 / 16	GSEA C2DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_DN
19	-6.73	NULL	1 / 10	BP cellular response to gonadotropin stimulus
20	-6.73	NULL	1 / 10	BP regulation of ossification
21	-6.73	NULL	1 / 10	GSEA C2CHASSOT_SKIN_WOUND
22	-6.73	NULL	1 / 10	GSEA C2ABE_VEGFA_TARGETS
23	-6.71	NULL	2 / 9	GSEA C2REACTOME_ETHANOL_OXIDATION
24	-6.66	NULL	3 / 12	CC SWI/SNF complex
25	-6.62	NULL	1 / 11	GSEA C2NUYTEN_EZH2_TARGETS_UP
26	-6.62	NULL	1 / 11	GSEA C2RIGGI_EWING_SARCOMA_PROGENITOR_DN
27	-6.59	NULL	4 / 40	miRNA target starBase
28	-6.36	NULL	4 / 15	GSEA C2GOLUB_ALL_VS_AML_UP
29	-6.33	NULL	2 / 16	GSEA C2AMUNDSON_DNA_DAMAGE_RESPONSE_TP53
30	-6.32	NULL	3 / 18	CC histone acetyltransferase complex
31	-6.31	NULL	1 / 12	GSEA C2PEREZ_TP53_TARGETS
32	-6.31	NULL	1 / 12	GSEA C2BOHN_PRIMARY_IMMUNODEFICIENCY_SYNDROM_DN
33	-6.31	NULL	1 / 12	GSEA C2CHIANG_LIVER_CANCER_SUBCLASS_INTERFERON_UP
34	-6.24	NULL	2 / 26	BP protein sumoylation
35	-6.23	NULL	2 / 16	GSEA C2CRICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATE
36	-6.14	NULL	3 / 21	TF Tissue/AQUERIZAS_Tonsil
37	-6.13	NULL	2 / 10	GSEA C2GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_L
38	-6.08	NULL	1 / 12	GSEA C2BIOCARTA_VIP_PATHWAY
39	-6.08	NULL	2 / 16	GSEA C2MANN_RESPONSE_TO_AMIFOSTINE_UP
40	-6.05	NULL	3 / 32	miRNA target starBase

p-values



GW_063

Local Summary

%DE = 0.54
 # metagenes = 44
 # genes = 504
 # genes in genesets = 499

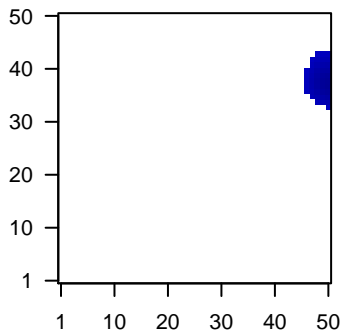
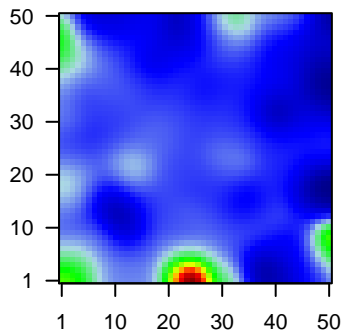
genes with $fdr < 0.1 = 115$ (4 + / 111 -)
 # genes with $fdr < 0.05 = 53$ (3 + / 50 -)
 # genes with $fdr < 0.01 = 10$ (2 + / 8 -)

<r> metagenes = 0.87
 <r> genes = 0.22

<FC> = -0.24
 <shrinkage-t> = -8.3
 <p-value> = 0.09
 <fdr> = 0.81

Profile

Spot



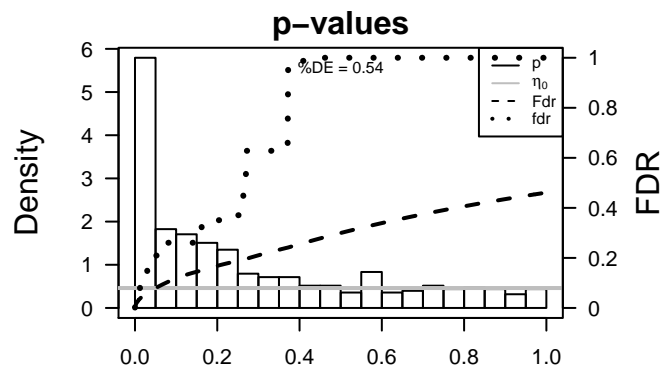
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	5612	0.88	1e-06	0.002	50 x 34 protein-kinase, interferon-inducible double stranded RNA de
2	23151	-0.81	8e-06	0.003	50 x 38 GRAM domain containing 4 [Source:HGNC Symbol;Acc:2911
3	80208	-0.76	3e-05	0.003	50 x 35 spastic paraplegia 11 (autosomal recessive) [Source:HGNC S
4	29123	-0.74	4e-05	0.003	50 x 39 ankyrin repeat domain 11 [Source:HGNC Symbol;Acc:21316]
5	56947	-0.72	6e-05	0.003	50 x 33 mitochondrial fission factor [Source:HGNC Symbol;Acc:2485f
6	51497	-0.71	8e-05	0.003	48 x 42 negative elongation factor complex member C/D [Source:HGI
7	91355	-0.7	1e-04	0.003	50 x 40 low density lipoprotein receptor-related protein 5-like [Sourc
8	22889	-0.7	1e-04	0.003	50 x 37 KIAA0907 [Source:HGNC Symbol;Acc:29145]
9	26577	0.69	1e-04	0.003	50 x 43 procollagen C-endopeptidase enhancer 2 [Source:HGNC Sy
10	23318	-0.69	1e-04	0.003	50 x 37 zinc finger, CCHC domain containing 11 [Source:HGNC Symi
11	25942	-0.69	1e-04	0.012	47 x 42 SIN3 transcription regulator family member A [Source:HGNC
12	4856	0.67	2e-04	0.012	50 x 40 nephroblastoma overexpressed [Source:HGNC Symbol;Acc:7
13	7342	-0.66	2e-04	0.012	50 x 35 upstream binding protein 1 (LBP-1a) [Source:HGNC Symbol;
14	85460	-0.64	4e-04	0.012	50 x 39 zinc finger protein 518B [Source:HGNC Symbol;Acc:29365]
15	57645	-0.64	4e-04	0.012	49 x 43 pogo transposable element with KRAB domain [Source:HGNI
16	9698	-0.64	4e-04	0.012	48 x 38 pumilio RNA-binding family member 1 [Source:HGNC Symbx
17	6599	-0.64	4e-04	0.014	50 x 36 SWI/SNF related, matrix associated, actin dependent regulatr
18	9061	-0.62	6e-04	0.014	50 x 34 3'-phosphoadenosine 5'-phosphosulfate synthase 1 [Source
19	83759	-0.6	9e-04	0.014	47 x 42 RNA binding motif protein 4B [Source:HGNC Symbol;Acc:28f
20	80209	-0.6	9e-04	0.014	50 x 36 proline and serine rich 1 [Source:HGNC Symbol;Acc:20291]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-8.59	NULL	15 / 100	miRNA target set miR394
2	-8.16	NULL	5 / 27	MF nucleotidyltransferase activity
3	-8.02	NULL	16 / 114	miRNA target set miR3247
4	-7.73	NULL	9 / 50	miRNA target set miR301A-508
5	-7.44	NULL	12 / 80	miRNA target set miR396a*
6	-6.79	NULL	16 / 119	miRNA target set miR390
7	-6.79	NULL	20 / 153	miRNA target set miR460b-5p
8	-6.69	NULL	18 / 113	miRNA target set miR397
9	-6.67	NULL	4 / 15	GSEA C2GENTILE_UV_RESPONSE_CLUSTER_D2
10	-6.56	NULL	10 / 41	BP mRNA 3'-end processing
11	-6.31	NULL	6 / 14	GSEA C2REACTOME_MRNA_3_END_PROCESSING
12	-6.28	NULL	10 / 44	BP termination of RNA polymerase II transcription
13	-6.25	NULL	22 / 180	miRNA target set miR374a
14	-6.23	NULL	17 / 121	miRNA target set miR393
15	-6.23	NULL	24 / 171	miRNA target set miR399-3p
16	-6.17	NULL	28 / 281	miRNA target set miR390
17	-6.17	NULL	9 / 54	miRNA target set miR460b-5p
18	-6.16	NULL	12 / 100	miRNA target set miR397
19	-6.1	NULL	19 / 146	miRNA target set miR392
20	-6.1	NULL	4 / 19	MF Wnt-activated receptor activity
21	-6.08	NULL	21 / 174	BP mRNA processing
22	-6.06	NULL	15 / 149	miRNA target set miR395
23	-6.02	NULL	26 / 319	miRNA target set miR397
24	-5.98	NULL	10 / 58	miRNA target set miR465-5p
25	-5.97	NULL	11 / 76	CC catalytic step 2 spliceosome
26	-5.96	NULL	9 / 70	miRNA target set miR392
27	-5.89	NULL	9 / 69	miRNA target set miR399-5p
28	-5.87	NULL	12 / 107	miRNA target set miR394-409-3P
29	-5.82	NULL	8 / 45	miRNA target set miR394
30	-5.8	NULL	53 / 595	MF RNA binding
31	-5.73	NULL	13 / 108	miRNA target set miR490b
32	-5.71	NULL	3 / 16	GSEA C2GAZDA_DIAMOND_BLACKFAN_ANEMIA_MYELOID_UP
33	-5.66	NULL	16 / 134	miRNA target set miR396
34	-5.61	NULL	16 / 158	miRNA target set miR448
35	-5.6	NULL	20 / 243	miRNA target set miR493
36	-5.5	NULL	2 / 6	GSEA C2MYLYKANGAS_AMPLIFICATION_HOT_SPOT_7
37	-5.49	NULL	22 / 197	miRNA target set miR395
38	-5.49	NULL	39 / 421	miRNA target set miR395
39	-5.48	NULL	21 / 163	BP mRNA splicing, via spliceosome
40	-5.43	NULL	10 / 100	miRNA target set miR399



GW_063

Local Summary

%DE = 0.75
 # metagenes = 7
 # genes = 134
 # genes in genesets = 133

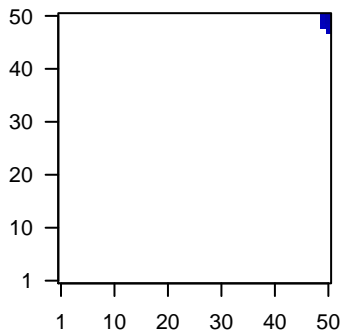
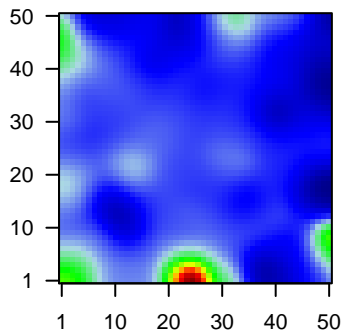
 # genes with $fdr < 0.1$ = 71 (8 + / 63 -)
 # genes with $fdr < 0.05$ = 54 (5 + / 49 -)
 # genes with $fdr < 0.01$ = 35 (4 + / 31 -)

 $\langle r \rangle$ metagenes = 0.99
 $\langle r \rangle$ genes = 0.3

 $\langle FC \rangle = -0.29$
 $\langle \text{shrinkage-t} \rangle = -10.29$
 $\langle p\text{-value} \rangle = 0.01$
 $\langle fdr \rangle = 0.6$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	3866	-1.6	2e-16	7e-15	50 x 50 keratin 15 [Source:HGNC Symbol;Acc:6421]
2	11166	-1.4	8e-15	1e-12	50 x 50 SRY (sex determining region Y)-box 21 [Source:HGNC Synt
3	26047	-1.36	5e-14	9e-12	50 x 50 contactin associated protein-like 2 [Source:HGNC Symbol;Ac
4	3304	-1.21	3e-13	1e-09	49 x 49 heat shock 70kDa protein 1A [Source:HGNC Symbol;Acc:52
5	2719	1.2	3e-11	1e-09	50 x 50 glypican 3 [Source:HGNC Symbol;Acc:4451]
6	94234	-1.18	6e-11	3e-07	50 x 50 forkhead box Q1 [Source:HGNC Symbol;Acc:20951]
7	4922	-1.04	1e-08	5e-05	50 x 50 neurotensin [Source:HGNC Symbol;Acc:8038]
8	6657	-0.87	1e-06	7e-05	50 x 50 SRY (sex determining region Y)-box 2 [Source:HGNC Symb
9	6446	-0.76	4e-06	7e-05	50 x 50 serum/glucocorticoid regulated kinase 1 [Source:HGNC Syml
10	5625	-0.81	7e-06	7e-05	50 x 48 proline dehydrogenase (oxidase) 1 [Source:HGNC Symbol;Ar
11	3856	-0.8	1e-05	7e-05	50 x 48 keratin 8 pseudogene 3 [Source:HGNC Symbol;Acc:31056]
12	1056	-0.8	1e-05	1e-04	50 x 50 carboxyl ester lipase [Source:HGNC Symbol;Acc:1848]
13	2944	-0.79	1e-05	2e-04	50 x 50 glutathione S-transferase mu 1 [Source:HGNC Symbol;Acc:4
14	154664	-0.77	2e-05	1e-03	50 x 50 ATP-binding cassette, sub-family A (ABC1), member 13 [Sou
15	10966	-0.72	6e-05	1e-03	50 x 50 RAB40B, member RAS oncogene family [Source:HGNC Sym
16	4953	0.71	8e-05	1e-03	50 x 50 ornithine decarboxylase 1 [Source:HGNC Symbol;Acc:8109]
17	57216	-0.7	1e-04	1e-03	50 x 48 VANGL planar cell polarity protein 2 [Source:HGNC Symbol;/
18	2222	-0.69	1e-04	1e-03	50 x 50 farnesyl-diphosphate farnesyltransferase 1 [Source:HGNC S
19	3880	-0.68	2e-04	4e-03	50 x 49 keratin 19 [Source:HGNC Symbol;Acc:6436]
20	120	-0.65	4e-04	4e-03	50 x 50 adducin 3 (gamma) [Source:HGNC Symbol;Acc:245]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-26.62	NULL	3 / 8	GSEA C2JUCDX2_TARGETS_DN
2	-17.85	NULL	3 / 12	GSEA C2BROCKE_APOPTOSIS_REVERSED_BY_IL6
3	-17.66	NULL	1 / 2	GSEA C2KUROKAWA_LIVER_CANCER_EARLY_RECURRENCE_UP
4	-17.26	NULL	2 / 7	GSEA C2MCCOLLUM_GELDANAMYCIN_RESISTANCE_DN
5	-13.48	NULL	2 / 10	GSEA C2CERVERA_SDHB_TARGETS_1_DN
6	-12.94	NULL	2 / 10	GSEA C2HANN_RESISTANCE_TO_BCL2_INHIBITOR_DN
7	-11.37	NULL	2 / 9	GSEA C2BROWNE_HCMV_INFECTION_8HR_UP
8	-11.24	NULL	3 / 13	BP regulation of blood vessel size
9	-10.72	NULL	2 / 23	BP stem cell differentiation
10	-10.28	NULL	1 / 5	GSEA C2DASU_IL6_SIGNALING_UP
11	-10.25	NULL	6 / 25	BP glutathione derivative biosynthetic process
12	-10.12	NULL	2 / 10	GSEA C2CONRAD_STEM_CELL
13	-10.08	NULL	8 / 34	BP glutathione metabolic process
14	-9.82	NULL	2 / 10	GSEA C2XU_GH1_AUTOCRINE_TARGETS_DN
15	-9.54	NULL	1 / 11	CC axolemma
16	-9.49	NULL	1 / 15	H.Tiss WIRTH_Cerebellum
17	-9.26	NULL	1 / 6	GSEA C2SESTO_RESPONSE_TO_UV_C0
18	-9.26	NULL	1 / 6	GSEA C2BIOCARTA_TID_PATHWAY
19	-9.21	NULL	2 / 13	GSEA C2BROWNE_HCMV_INFECTION_6HR_DN
20	-9.18	NULL	3 / 11	MF glutathione binding
21	-9.18	NULL	3 / 11	GSEA C2KEGG_DRUG_METABOLISM_CYTOCHROME_P450
22	-9.16	NULL	1 / 16	GSEA C2ROY_WOUND_BLOOD_VESSEL_DN
23	-9.15	NULL	3 / 33	BP regulation of sequence-specific DNA binding transcription factor a
24	-8.49	NULL	1 / 7	GSEA C2WEINMANN_ADAPTATION_TO_HYPOXIA_UP
25	-8.48	NULL	2 / 16	GSEA C2KEGG_STEROID_BIOSYNTHESIS
26	-8.39	NULL	2 / 14	GSEA C2TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_DN
27	-8.34	NULL	1 / 14	BP transmission of nerve impulse
28	-8.34	NULL	1 / 14	GSEA C2SILIGAN_TARGETS_OF_EWS_FL11_FUSION_DN
29	-8.34	NULL	1 / 14	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_B
30	-8.26	NULL	2 / 15	GSEA C2LEE_LIVER_CANCER_MYC_UP
31	-8.26	NULL	2 / 15	GSEA C2LEE_LIVER_CANCER_E2F1_UP
32	-8.16	NULL	4 / 13	GSEA C2KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME
33	-8.15	NULL	4 / 15	GSEA C2REACTOME_Glutathione_CONJUGATION
34	-8.09	NULL	1 / 20	MF scaffold protein binding
35	-8.03	NULL	5 / 20	MF glutathione transferase activity
36	-7.92	NULL	1 / 3	GSEA C2RUNNE_GENDER_EFFECT_DN
37	-7.87	NULL	1 / 8	GSEA C2BARRIER_CANCER_RELAPSE_NORMAL_SAMPLE_DN
38	-7.87	NULL	1 / 8	GSEA C2ADDYA_ERYTHROID_DIFFERENTIATION_BY_HEMIN
39	-7.87	NULL	1 / 8	GSEA C2CHANDRAN_METASTASIS_UP
40	-7.87	NULL	1 / 8	GSEA C2WU_APOPTOSIS_BY_CDKN1A_NOT_VIA_TP53

p-values

