

Data were analysed using the Core expression routine
<https://www.glagenbioinformatics.com/products/ingenuity-pathway-analysis>
Krämer A, Green J, Pollard J, Jr, Tugendreich S. Causal analysis approaches in Ingenuity Pathway Analysis. *Bioinforma*. 2014;**30**:523–530.

IPA Settings for analyses of hepatocyte transcripts (setA) and miRNA (set B)

Analysis Settings	
Cutoff before duplicate resolution	true
Resolve duplicate on	Expression logfoldchange
Color using	Expression logfoldchange
Cutoff for Expression foldchange	down regulated -1.3 and up regulated 1.3
Cutoff for Expression pvalue	0.05
Reference set	Ingenuity Knowledge Base (Genes Only)
Relationship to include	Direct and Indirect
Includes Endogenous Chemicals	Yes

Filter Summary

Consider only molecules and/or relationships where
(confidence = High (predicted) OR Experimentally Observed) AND

(mol. types = biologic drug OR canonical pathway OR chemical - endogenous mammalian OR chemical - endogenous non-mammalian OR chemical - kinase inhibitor OR chemical - other OR chemical - protease inhibitor OR chemical drug OR chemical reagent OR chemical toxicant OR complex OR cytokine OR disease OR enzyme OR function OR G-protein coupled receptor OR group OR growth factor OR ion channel OR kinase OR ligand-dependent nuclear receptor OR mature microRNA OR microRNA OR other OR peptidase OR phosphatase OR transcription regulator OR translation regulator OR transmembrane receptor OR transporter)

Datasets show analyses ready molecules for IPA for analyses (Spring Release 2021)

Analyses set A: hepatocyte derived transcripts

ID	Symbol	Expr Fold Ch	Expr p-value
TC0700001119.mm.1	ABHD2	3,24	9,90E-03
TC1800000794.mm.1	ACAA2	-2,78	3,84E-03
TC1100001276.mm.1	ACACA	-2,08	1,55E-02
TC1700001458.mm.1	ACAT2	1,88	2,35E-02
TC0300001413.mm.1	Adh6-ps1	-1,53	2,43E-02
TC1100001289.mm.1	Akirin1-ps	1,34	1,54E-02
TC1200000057.mm.1	APOB	1,79	3,49E-02
TC1400000862.mm.1	ARL11	1,39	8,20E-03
TC1300001298.mm.1	ARL15	-1,33	2,62E-02
TC0500003018.mm.1	ASPHD2	-1,45	3,05E-02
TC1500001568.mm.1	ATAD2	-1,34	2,10E-02
TC1500001068.mm.1	ATG101	-1,53	4,99E-03
TC1000001543.mm.1	AVIL	-1,44	2,36E-02
TC1400000853.mm.1	C1QTNF9B	-1,30	2,63E-02
TC1500000014.mm.1	C6	-1,83	3,34E-02
TC1100002158.mm.1	CAMK2B	1,44	1,81E-03
TC0700002502.mm.1	CBLC	1,36	1,04E-02
TSUnmapped00000018.n	CCDC169	-1,44	1,78E-02
TC0700002912.mm.1	Cd9-ps	1,45	4,60E-03
TC0X00002320.mm.1	Cdr1	-1,34	2,93E-02
TC0700002635.mm.1	CEACAM1	1,62	2,64E-02
TC1400002101.mm.1	CIDEB	1,64	1,78E-02
TC0800000984.mm.1	Cks1brt	-1,37	4,25E-02
TC1600001419.mm.1	CLDN1	2,54	3,52E-02
TC0X00003226.mm.1	Cldn34b2 (inc	1,31	2,34E-02
TC0100000572.mm.1	CP51	3,56	1,77E-02
TC1900000008.mm.1	CPT1A	1,57	1,88E-02
TC1500000852.mm.1	CRELD2	-1,58	3,48E-02
TC0300000902.mm.1	CTSK	-1,32	2,38E-02
TC0100003029.mm.1	CXCR4	1,33	1,92E-02
TC1500001957.mm.1	Cyp2d26	2,10	4,15E-03
TC0400002151.mm.1	CYP7A1	-1,59	7,42E-03
TC0300001689.mm.1	CYP7B1	-1,80	3,23E-02
TC1400000891.mm.1	Defb43	1,43	8,50E-03
TC1400002213.mm.1	Defb48	1,38	1,91E-02
TC0900002720.mm.1	DPPA5	-1,36	1,23E-02
TC1700001067.mm.1	Dreh	-1,34	4,15E-02
TC1000002199.mm.1	Dux	-1,63	8,80E-03
TC0900002038.mm.1	EI24	1,47	2,20E-02
TC1300000072.mm.1	ERO1B	-1,41	2,51E-02
TC0700000388.mm.1	ETHE1	1,60	4,29E-02
TC1400001724.mm.1	Fam25c	-1,36	3,85E-02
TC0600000227.mm.1	FAM71F2	-1,65	4,83E-02
TC0300000967.mm.1	FMO5	1,78	1,79E-02
TC1100001654.mm.1	G6PC1	-2,36	2,29E-02
TC1100001622.mm.1	GAST	1,46	3,25E-02
TC1100003466.mm.1	GDPD1	-1,34	1,79E-02
TC0300000852.mm.1	Gm12854/S1	2,33	1,99E-02
TC1400000963.mm.1	GNRH1	-1,33	3,37E-02
TC0500000987.mm.1	GPAT3	-1,41	1,22E-02
TC0900002719.mm.1	GSTA5	1,38	4,78E-02
TC0600003374.mm.1	GYS2	-1,87	5,48E-03
TC0X00000120.mm.1	H2ap	1,48	9,65E-03
TC0300000930.mm.1	H2BC11	-1,37	2,42E-03
TC1300000191.mm.1	H2BC12	1,45	2,97E-02
TC0X00000987.mm.1	H3f3a-ps1	-1,50	1,59E-02
TC1600002063.mm.1	H3f3a-ps2	-1,48	1,52E-02
TC1000001133.mm.1	HAL	1,78	4,30E-02
TC1900000560.mm.1	HELLS	-1,39	3,39E-02
TC1600001496.mm.1	Hmgb1-ps6	-1,35	4,13E-02
TC0500000230.mm.1	Hspe1-ps3	1,32	4,11E-02
TC1200001663.mm.1	IFRD1	-1,66	3,48E-02
TC1200002572.mm.1	Ighv5-17	1,44	1,15E-02

Analyses set B: hepatocyte derived miRNAs

ID	Symbol	Expr Fold Ch	Expr p-value
TC0800001406.mm.1	Mir7078	-2,84	1,10E-02
TC06000003113.mm.1	mir-8	-2,27	1,35E-02
TC0900001314.mm.1	Mir2136	-2,20	2,13E-02
TC1800000626.mm.1	Mir6983	-2,10	7,67E-03
TC0400002710.mm.1	mir-32	-2,05	1,70E-02
TC1200002373.mm.1	mir-299	-1,92	3,23E-02
TC0200001439.mm.1	Mir7221	-1,90	6,39E-03
TC0600002009.mm.1	mir-29	-1,85	1,89E-03
TC1000000897.mm.1	Mir6913	-1,78	7,04E-03
TC1400002294.mm.1	Mir6539	-1,76	2,10E-02
TC0800001278.mm.1	mir-140	-1,66	1,52E-03
TC0400000355.mm.1	Mir3094	-1,61	1,94E-02
TC0X00002216.mm.1	Mir6384	-1,51	2,78E-02
TC1000001865.mm.1	Mir7663	-1,46	1,22E-02
TC1200002444.mm.1	Mir6941	-1,42	2,04E-03
TC0700004590.mm.1	Mir7064	-1,39	1,50E-02
TC1500000783.mm.1	Mir6392	-1,37	1,18E-03
TC0X00002779.mm.1	mir-95	-1,36	2,32E-02
TC0700001433.mm.1	mir-139	-1,36	6,21E-03
TC1100001544.mm.1	Mir6927	-1,35	3,07E-02
TC1000000575.mm.1	Mir5108	-1,34	3,86E-02
TC0200000111.mm.1	mir-467	-1,32	1,25E-02
TC1300002100.mm.1	mir-7	-1,30	1,83E-02
TC0100001558.mm.1	Mir6348	1,30	1,01E-02
TC1000000880.mm.1	mir-5615	1,31	7,64E-03
TC1700000674.mm.1	Mir6973a	1,32	1,38E-02
TC1800000565.mm.1	Mir1258	1,32	2,62E-02
TC0200004528.mm.1	Mir210	1,32	3,04E-02
TC0200002786.mm.1	Mir3091	1,32	8,05E-03
TC0800002464.mm.1	Mir7068	1,34	5,97E-03
TC0900000076.mm.1	Mir6237	1,34	2,40E-02
TC1800001079.mm.1	mir-187	1,36	3,42E-04
TC0X00002370.mm.1	mir-506	1,36	3,34E-02
TC0200004139.mm.1	Mir7000	1,36	1,50E-02
TC1600001505.mm.1	Mir1946a	1,36	1,06E-02
TC0800000951.mm.1	mir-23	1,37	3,93E-02
TC0700002618.mm.1	Mir7047	1,39	2,71E-02
TC1800000106.mm.1	Mir1948	1,39	2,64E-02
TC0100003622.mm.1	mir-350	1,40	2,70E-02
TC1100001187.mm.1	mir-193	1,41	6,61E-03
TC1500000168.mm.1	Mir7212	1,42	1,55E-03
TC1400000997.mm.1	mir-320	1,50	1,61E-02
TC0300001577.mm.1	mir-186	1,50	3,64E-02
TC0200000712.mm.1	mir-181	1,50	7,11E-03
TSUnmapped00000011	Mir5118	1,52	8,01E-03
TC1400002114.mm.1	Mir6949	1,53	6,66E-03
TSUnmapped00000010	Mir7660	1,56	3,68E-03
TC1200000237.mm.1	Mir6937	1,57	1,08E-03
TC1100000870.mm.1	Mir6406	1,57	4,72E-02
TC0500003235.mm.1	Mir7647	1,58	1,47E-02
TC1100001491.mm.1	mir-196	1,58	5,78E-03
TC0800000967.mm.1	Mir7069	1,58	9,42E-04
TC0X00000671.mm.1	Mir2137	1,59	4,25E-02
TC0800002873.mm.1	Mir7075	1,60	3,41E-03
TC0400001466.mm.1	Mir7119	1,64	3,11E-03
TC1000000849.mm.1	Mir6911	1,65	2,40E-02
TC1500001122.mm.1	mir-615	1,67	2,46E-03
TC1200001172.mm.1	mir-379	1,67	4,31E-03
TC1100002870.mm.1	Mir6921	1,67	7,02E-04
TC0900001852.mm.1	Mir7081	1,67	1,49E-02
TC1200001143.mm.1	mir-341	1,69	2,87E-02
TC1200001178.mm.1	mir-329	1,69	1,52E-02
TC1500000819.mm.1	let-7	1,70	2,24E-02

TC0600003579.mm.1	Igkv12-41	-1,52	3,32E-02
TC0600003581.mm.1	Igkv5-39	1,37	2,56E-02
TC0600003587.mm.1	Igkv8-28	1,55	1,98E-02
TC0600001252.mm.1	IL17RC	1,31	5,00E-02
TC0100002969.mm.1	INSIG2	2,04	3,28E-02
TC0800001694.mm.1	IRS2	1,72	1,08E-02
TC0100002762.mm.1	KCNJ13	1,31	2,30E-02
TC1500001410.mm.1	KLF10	-1,34	4,49E-02
TC0600000822.mm.1	KRCC1	1,30	3,36E-02
TC1600002019.mm.1	KRTAP19-3	-1,53	4,73E-03
TC0100000717.mm.1	Krtap28-13	-1,80	3,23E-02
TC0700004559.mm.1	Krtap5-5	-1,34	3,63E-02
TC1600002033.mm.1	Krtap6-2	-1,94	4,57E-02
TC0200003265.mm.1	KYAT1	1,63	3,92E-02
TC0300001448.mm.1	KYAT3	-1,73	3,15E-02
TC0800000123.mm.1	LAMP1	2,17	2,26E-02
TC0X00002085.mm.1	LAMP2	2,27	1,45E-02
TC1500000819.mm.1	let-7	1,70	2,24E-02
TC1100003314.mm.1	LGALS9B	2,37	4,32E-02
TC1900001419.mm.1	LIPA	2,03	1,72E-02
TC1200001662.mm.1	LSMEM1	-1,85	5,98E-03
TC0X00003231.mm.1	Magea3 (incl	-1,37	1,34E-02
TC1300000021.mm.1	Marcksl1-ps4	-1,39	1,69E-02
TC0100003026.mm.1	MCM6	-1,60	4,40E-02
TC1500000380.mm.1	MED30	-1,32	3,71E-02
TC0900001334.mm.1	mir-135	1,79	2,07E-02
TC0700001433.mm.1	mir-139	-1,36	6,21E-03
TC0800001278.mm.1	mir-140	-1,66	1,52E-03
TC1200001174.mm.1	mir-154	1,96	3,72E-02
TC0200000712.mm.1	mir-181	1,50	7,11E-03
TC0300001577.mm.1	mir-186	1,50	3,64E-02
TC1800001079.mm.1	mir-187	1,36	3,42E-04
TC1100001187.mm.1	mir-193	1,41	6,61E-03
TC1100001491.mm.1	mir-196	1,58	5,78E-03
TC0800000951.mm.1	mir-23	1,37	3,93E-02
TC0600002009.mm.1	mir-29	-1,85	1,89E-03
TC1200002373.mm.1	mir-299	-1,92	3,23E-02
TC0400002710.mm.1	mir-32	-2,05	1,70E-02
TC1400000997.mm.1	mir-320	1,50	1,61E-02
TC1200001178.mm.1	mir-329	1,69	1,52E-02
TC1200001143.mm.1	mir-341	1,69	2,87E-02
TC0100003622.mm.1	mir-350	1,40	2,70E-02
TC1200001172.mm.1	mir-379	1,67	4,31E-03
TC0200000111.mm.1	mir-467	-1,32	1,25E-02
TC0X00002370.mm.1	mir-506	1,36	3,34E-02
TC1000000880.mm.1	mir-5615	1,31	7,64E-03
TC1500001122.mm.1	mir-615	1,67	2,46E-03
TC1300002100.mm.1	mir-7	-1,30	1,83E-02
TC0600003113.mm.1	mir-8	-2,27	1,35E-02
TC0X00002779.mm.1	mir-95	-1,36	2,32E-02
TC1600001462.mm.1	Mir1195	1,77	9,71E-03
TC1800000565.mm.1	Mir1258	1,32	2,62E-02
TC1600001505.mm.1	Mir1946a	1,36	1,06E-02
TC1800000106.mm.1	Mir1948	1,39	2,64E-02
TC0900001314.mm.1	Mir2136	-2,20	2,13E-02
TC0X00000671.mm.1	Mir2137	1,59	4,25E-02
TC1100002410.mm.1	Mir216c	1,74	2,70E-02
TC0700002122.mm.1	Mir290b	1,80	1,12E-02
TC1000002730.mm.1	Mir3058	2,56	1,23E-02
TC0200002786.mm.1	Mir3091	1,32	8,05E-03
TC0400000355.mm.1	Mir3094	-1,61	1,94E-02
TC1400001229.mm.1	Mir3964	2,11	3,61E-02
TC1000000575.mm.1	Mir5108	-1,34	3,86E-02
TSUnmapped00000118.n	Mir5118	1,52	8,01E-03
TC0900000076.mm.1	Mir6237	1,34	2,40E-02
TSUnmapped00000115.n	Mir6240	3,65	2,26E-03
TC0100001558.mm.1	Mir6348	1,30	1,01E-02

TC1600002159.mm.1	Mir6964	1,71	4,84E-02
TC1400002064.mm.1	Mir6948	1,71	2,12E-02
TC1100002410.mm.1	Mir216c	1,74	2,70E-02
TC1600001462.mm.1	Mir1195	1,77	9,71E-03
TC0X00002218.mm.1	Mir717	1,79	2,68E-02
TC0900001334.mm.1	mir-135	1,79	2,07E-02
TC0700002122.mm.1	Mir290b	1,80	1,12E-02
TC1800000604.mm.1	Mir6355	1,81	7,24E-03
TC1800001223.mm.1	Mir6980	1,85	5,73E-04
TC1200001174.mm.1	mir-154	1,96	3,72E-02
TC0500000874.mm.1	Mir6415	1,97	1,96E-02
TC0800002952.mm.1	Mir7076	2,00	2,58E-04
TC1400001229.mm.1	Mir3964	2,11	3,61E-02
TC0900001862.mm.1	Mir7667	2,48	3,84E-02
TC1000002730.mm.1	Mir3058	2,56	1,23E-02
TSUnmapped0000011	Mir6240	3,65	2,26E-03

TC1800000604.mm.1	Mir6355	1,81	7,24E-03
TC0X00002216.mm.1	Mir6384	-1,51	2,78E-02
TC1500000783.mm.1	Mir6392	-1,37	1,18E-03
TC1100000870.mm.1	Mir6406	1,57	4,72E-02
TC0500000874.mm.1	Mir6415	1,97	1,96E-02
TC1400002294.mm.1	Mir6539	-1,76	2,10E-02
TC1000000849.mm.1	Mir6911	1,65	2,40E-02
TC1000000897.mm.1	Mir6913	-1,78	7,04E-03
TC1100002870.mm.1	Mir6921	1,67	7,02E-04
TC1100001544.mm.1	Mir6927	-1,35	3,07E-02
TC1200000237.mm.1	Mir6937	1,57	1,08E-03
TC1200002444.mm.1	Mir6941	-1,42	2,04E-03
TC1400002064.mm.1	Mir6948	1,71	2,12E-02
TC1400002114.mm.1	Mir6949	1,53	6,66E-03
TC1600002159.mm.1	Mir6964	1,71	4,84E-02
TC1700000674.mm.1	Mir6973a	1,32	1,38E-02
TC1800001223.mm.1	Mir6980	1,85	5,73E-04
TC1800000626.mm.1	Mir6983	-2,10	7,67E-03
TC0200004139.mm.1	Mir7000	1,36	1,50E-02
TC0700002618.mm.1	Mir7047	1,39	2,71E-02
TC0700004590.mm.1	Mir7064	-1,39	1,50E-02
TC0800002464.mm.1	Mir7068	1,34	5,97E-03
TC0800000967.mm.1	Mir7069	1,58	9,42E-04
TC0800002873.mm.1	Mir7075	1,60	3,41E-03
TC0800002952.mm.1	Mir7076	2,00	2,58E-04
TC0800001406.mm.1	Mir7078	-2,84	1,10E-02
TC0900001852.mm.1	Mir7081	1,67	1,49E-02
TC0400001466.mm.1	Mir7119	1,64	3,11E-03
TC0X00002218.mm.1	Mir717	1,79	2,68E-02
TC1500000168.mm.1	Mir7212	1,42	1,55E-03
TC0200001439.mm.1	Mir7221	-1,90	6,39E-03
TC0500003235.mm.1	Mir7647	1,58	1,47E-02
TSUnmapped00000109.n	Mir7660	1,56	3,68E-03
TC1000001865.mm.1	Mir7663	-1,46	1,22E-02
TC0900001862.mm.1	Mir7667	2,48	3,84E-02
TSUnmapped00000114.n	Mir7689	-1,41	3,07E-03
TC0100003301.mm.1	MR1	1,32	2,64E-03
TCOM000000006.mm.1	MT-CO1	1,32	1,95E-03
TCOM000000005.mm.1	MT-ND2	2,38	8,60E-03
TCOM000000011.mm.1	MT-ND3	1,51	9,39E-03
TC0X00001524.mm.1	n-R5s13	1,58	3,81E-02
TC0600000722.mm.1	n-R5s162	3,74	5,25E-05
TC0300000011.mm.1	n-R5s194	1,86	2,15E-03
TC0100000354.mm.1	n-R5s211	1,90	6,21E-03
TC1600000459.mm.1	n-R5s33	2,13	5,86E-04
TC1200002099.mm.1	n-R5s64	2,00	3,72E-04
TC0100002319.mm.1	NAB1	1,31	1,65E-02
TC0600003600.mm.1	Nat8f5	-1,33	3,94E-02
TC1700001015.mm.1	NDUFA11	1,50	1,88E-02
TC1000001566.mm.1	NDUFA4L2	1,99	3,16E-02
TC0700002124.mm.1	NLRP12	1,31	3,77E-02
TC1300002740.mm.1	Nnt	1,30	4,76E-03
TC1100003688.mm.1	NR1D1	-3,13	2,34E-02
TC1000002657.mm.1	NR1H4	1,67	2,51E-02
TC0900002332.mm.1	NRG4	2,99	6,88E-03
TC0900002988.mm.1	NUDT16	1,32	2,26E-02
TC0800001097.mm.1	NUP93	-1,33	2,91E-02
TC0700004409.mm.1	OAT	-3,41	4,22E-02
TC0200004019.mm.1	Olfr1180	1,40	1,23E-02
TC0200004054.mm.1	Olfr1233	1,37	2,40E-02
TC1900000262.mm.1	Olfr1451	-1,57	4,09E-02
TC0900000156.mm.1	Olfr58 (includ	-1,31	1,11E-02
TC0700004015.mm.1	Olfr695	1,38	2,27E-02
TC1000003181.mm.1	Olfr777/Olfr8	1,53	2,79E-02
TC0700001572.mm.1	OR2D3	1,47	4,76E-02
TC0200004077.mm.1	OR4C3	-1,55	4,03E-02
TC0600000415.mm.1	OR9A4	-1,38	5,51E-03

TC0400001390.mm.1	Oxct2a/Oxct2	-1,67	1,04E-02
TC0600003317.mm.1	Pbp2	1,59	1,55E-02
TC1900000040.mm.1	PC	-1,72	9,88E-03
TC0200002683.mm.1	PCK1	-2,61	1,49E-02
TC1400001436.mm.1	PDHB	-1,91	6,46E-03
TC1100003107.mm.1	PFN1	1,76	2,48E-02
TC1200002089.mm.1	PGF	-1,48	3,50E-02
TC1700002101.mm.1	PGK2	1,89	2,41E-03
TC1100000001.mm.1	Pisd-ps1	-1,61	3,57E-03
TC1700001348.mm.1	Pisd-ps2	-1,43	3,66E-03
TC0600003329.mm.1	PLBD1	-1,33	2,48E-02
TC1100003934.mm.1	POLG2	-1,30	1,96E-02
TC0200005386.mm.1	PPP1R3D	-1,39	1,83E-02
TC0500000809.mm.1	Prol1	2,10	2,73E-03
TC0700004346.mm.1	PRSS8	1,41	3,75E-02
TC1900001203.mm.1	PSAT1	-1,40	2,63E-02
TC1100004291.mm.1	Psme2b	1,47	1,01E-03
TC0900001410.mm.1	Qars	-1,61	2,29E-02
TC0600002978.mm.1	RASSF4	1,92	9,67E-03
TC1000003221.mm.1	RDH16	-1,70	4,49E-02
TC0600001741.mm.1	REP15	-1,79	5,26E-03
TC0X00000359.mm.1	Rhox10	1,36	2,44E-02
TC0600002206.mm.1	Rn4.5s	1,81	1,58E-02
TC0700004658.mm.1	RNF141	-1,33	2,00E-02
TSUnmapped00000181.n	RNY1	2,82	4,01E-02
TSUnmapped00000180.n	Rny3	2,05	1,86E-03
TC1200001841.mm.1	RPL10L	1,31	4,47E-02
TC0100002198.mm.1	Rpl12-ps1	1,52	7,84E-03
TC1100002300.mm.1	Rpl12-ps2	1,70	1,32E-03
TC0200000708.mm.1	Rpl15-ps4	1,47	8,49E-03
TC0100000486.mm.1	Rpl18-ps1	1,66	4,55E-02
TC1200001765.mm.1	Rpl18a-ps1	1,73	1,24E-02
TC1100000971.mm.1	Rpl23a-ps2	1,32	3,01E-02
TC0200002038.mm.1	Rpl23a-ps4	1,37	2,45E-02
TC0400003526.mm.1	Rpl28-ps3	1,70	4,09E-02
TC0X00000701.mm.1	Rpl3-ps2	1,42	3,18E-02
TC0200005315.mm.1	Rpl30-ps5	1,30	4,90E-02
TC0300000292.mm.1	Rpl31-ps15	1,56	3,94E-02
TC1900000742.mm.1	Rpl31-ps18	1,49	2,57E-02
TC1500000779.mm.1	Rpl31-ps22	1,55	4,56E-02
TC0800002043.mm.1	Rpl31-ps23	1,56	1,68E-03
TC0100000543.mm.1	Rpl31-ps24	1,42	3,82E-02
TC1700002614.mm.1	Rpl31-ps25	1,42	2,90E-02
TC0500000166.mm.1	Rpl31-ps5	1,57	2,43E-02
TC0500001420.mm.1	Rpl31-ps6	1,37	2,26E-02
TC0600002210.mm.1	Rpl31-ps7	1,44	3,81E-02
TC0X00002057.mm.1	RPL39	1,41	2,56E-02
TC1500001107.mm.1	Rpl39-ps	1,62	1,60E-02
TC0X00000606.mm.1	Rpl7a-ps13	1,41	1,54E-02
TC1100003400.mm.1	Rpl9-ps1	1,46	3,03E-03
TC1100000607.mm.1	Rpl9-ps3	1,31	3,66E-02
TC1700002025.mm.1	Rpl9-ps9	1,36	1,74E-02
TC0300000845.mm.1	Rplp0-ps1	1,45	2,69E-02
TC0800001620.mm.1	Rprl3	-1,53	4,52E-02
TC1100001719.mm.1	RPRML	-1,34	1,45E-02
TC0500003620.mm.1	Rps10-ps4	1,45	1,27E-02
TC0900002411.mm.1	Rps11-ps1	1,53	2,29E-02
TC0X00001511.mm.1	Rps12-ps7	1,33	1,23E-02
TC0500002904.mm.1	Rps15a-ps5	1,75	6,09E-03
TC0500002939.mm.1	Rps19-ps8	1,40	2,79E-03
TC0600002670.mm.1	Rps19-ps9	1,35	2,82E-02
TC1100000610.mm.1	Rps2-ps4	1,49	1,65E-02
TC1300001017.mm.1	RPS23	1,38	3,18E-02
TC0800001611.mm.1	Rps23-ps2	1,54	2,93E-02
TC0100000516.mm.1	Rps27-ps1	1,46	4,17E-02
TC0400002749.mm.1	Rpsa-ps11	1,65	3,83E-03
TC1100000285.mm.1	Rpsa-ps5	1,40	1,51E-03

TC0700000826.mm.1	RRAS	2,41	3,02E-02
TC0300000809.mm.1	S100A6	1,54	7,58E-03
TC0300000811.mm.1	S100A8	1,36	1,15E-02
TC0700003039.mm.1	Saa3	-1,81	2,78E-02
TSUnmapped00000007.n	SAMD15	1,32	3,94E-03
TC0600003137.mm.1	Scarna10	-1,85	4,19E-02
TC0700002025.mm.1	Scgb1c1	-1,37	3,89E-02
TC0100003528.mm.1	SDHC	1,61	1,10E-02
TC0900002271.mm.1	SDHD	1,50	9,73E-03
TC1500000002.mm.1	SELENOP	1,43	4,78E-02
TC1200001044.mm.1	SERPINA3	1,54	3,96E-02
TC1200002290.mm.1	Serpina3d-ps	1,49	1,60E-02
TC1200002291.mm.1	Serpina3e-ps	1,61	5,92E-03
TC1200002526.mm.1	Serpina3h	1,31	3,35E-03
TC1100004285.mm.1	SFI1	-1,74	3,94E-02
TC0200001524.mm.1	SLC1A2	-1,87	6,42E-04
TC1700001450.mm.1	SLC22A1	-2,14	3,34E-02
TC1100003836.mm.1	SLC25A39	1,36	4,11E-02
TC0100002288.mm.1	SLC39A10	-1,30	8,39E-03
TC1600001019.mm.1	SLC5A3	-1,34	1,92E-02
TC0800000482.mm.1	SLC7A2	2,47	3,09E-03
TC0900001297.mm.1	SLCO2A1	2,00	4,66E-02
TC0500003714.mm.1	Smok2b (inclu	-1,81	3,80E-02
TC0100000521.mm.1	Snora41	-2,22	1,39E-02
TC1100003289.mm.1	Snord42a	2,56	2,91E-02
TC0500001025.mm.1	SPP1	1,60	3,25E-02
TC0Y00000240.mm.1	Sry	1,42	1,98E-02
TC0X00000122.mm.1	SYTL5	2,03	4,72E-02
TC1000000203.mm.1	Taar7b (inclu	-1,56	4,94E-02
TC0600002427.mm.1	TACSTD2	1,36	2,87E-02
TC1100001756.mm.1	TANC2	-1,34	3,08E-02
TC0600000463.mm.1	TAS2R41	-1,30	4,56E-02
TC1200001054.mm.1	Tcl1b4 (includ	-1,58	3,10E-02
TC0900002119.mm.1	TECTA	-1,32	6,36E-03
TC1600000440.mm.1	TM4SF19	-1,42	3,09E-02
TC1600002152.mm.1	TMPRSS2	1,62	4,06E-02
TC1400000726.mm.1	Traj57	1,49	2,80E-02
TC1400002826.mm.1	Trav4-4-dv10	-1,46	2,23E-02
TC1400002804.mm.1	Trav6d-7	-1,80	2,06E-02
TC1400002801.mm.1	Trav9d-4	-1,41	1,94E-02
TC0200004896.mm.1	TRIB3	-1,31	3,15E-02
TC1000001068.mm.1	Tyms-ps	-1,38	5,51E-03
TC1000003216.mm.1	UBE2G2	-1,40	4,23E-02
TC0100000682.mm.1	UTP14C	-1,39	4,38E-02
TC1900000415.mm.1	VLDLR	-2,01	1,50E-02
TC0600000694.mm.1	Vmn1r19	1,43	1,79E-03
TC1300000231.mm.1	Vmn1r192 (ir	-1,77	2,27E-03
TC0700003665.mm.1	Vmn2r-ps65	1,33	1,59E-02
TC1700001536.mm.1	Vmn2r106	1,31	3,26E-02
TC1000001675.mm.1	ZBTB2	-1,37	5,16E-03
TC1300002228.mm.1	Zfp640	-2,05	3,69E-02
TC1100003597.mm.1	Zfp652os	1,50	9,74E-04
TC0200005514.mm.1	ZHX3	1,35	7,26E-03
TC0700000368.mm.1	ZNF180	-1,33	1,32E-03
TC0400003995.mm.1	ZNF616	-1,42	2,19E-02

[illegible]

Transcription Factor	ontologies: Molecular Term	Prevalent Activation Sites	Activation score	Number of genes	Target molecules in dataset
ADAMTS-1	transcription regulator	chromatin	0.00	1,501/19	no 1501/19
ADAMTS-1	chromatin	chromatin	0.04	1,511/19	no 1501/19
ADAMTS-1	chromatin	chromatin	0.19	1,519/19	no 1501/19
ADAMTS-1	chromatin	chromatin	0.49	1,530/19	no 1501/19
ADAMTS-1	chromatin	chromatin	0.59	1,539/19	no 1501/19
ADAMTS-1	chromatin	chromatin	0.69	1,548/19	no 1501/19
ADAMTS-1	chromatin	chromatin	0.79	1,557/19	no 1501/19
ADAMTS-1	chromatin	chromatin	0.89	1,566/19	no 1501/19
ADAMTS-1	chromatin	chromatin	0.99	1,575/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.00	1,584/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.01	1,593/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.02	1,602/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.03	1,611/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.04	1,620/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.05	1,629/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.06	1,638/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.07	1,647/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.08	1,656/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.09	1,665/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.10	1,674/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.11	1,683/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.12	1,692/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.13	1,701/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.14	1,710/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.15	1,719/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.16	1,728/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.17	1,737/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.18	1,746/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.19	1,755/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.20	1,764/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.21	1,773/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.22	1,782/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.23	1,791/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.24	1,800/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.25	1,809/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.26	1,818/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.27	1,827/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.28	1,836/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.29	1,845/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.30	1,854/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.31	1,863/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.32	1,872/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.33	1,881/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.34	1,890/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.35	1,899/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.36	1,908/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.37	1,917/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.38	1,926/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.39	1,935/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.40	1,944/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.41	1,953/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.42	1,962/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.43	1,971/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.44	1,980/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.45	1,989/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.46	1,998/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.47	2,007/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.48	2,016/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.49	2,025/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.50	2,034/19	no 1501/19
ADAMTS-1	chromatin	chromatin	1.51	2,043/19	no 1501/19</

Analyses set A: hepatocyte derived transcripts

Ingenuity Canonical Pathways	-log(p-value)	zScore	Ratio	Molecules
Arginine Degradation I (Arginase Pathway)	1,51			0,25 OAT
Sirtuin Signaling Pathway	4,73	-1,4142136		0,0377 ATG101,CPS1,CPT1A,MT-ND2,MT-ND3,NDUFA11,NDUFA4L2,NR1H4,PCK1,SDHC,SDHD
Ketolysis	4,28			0,3 ACAA2,ACAT2,Oxct2a/Oxct2b
Mitochondrial Dysfunction	4,23			0,0468 CPT1A,MT-CO1,MT-ND2,MT-ND3,NDUFA11,NDUFA4L2,SDHC,SDHD
Oxidative Phosphorylation	3,63	2,4494897		0,0541 MT-CO1,MT-ND2,MT-ND3,NDUFA11,SDHC,SDHD
Cancer Drug Resistance By Drug Efflux	2,97			0,069 mir-154,mir-181,mir-379,RRAS
Histidine Degradation VI	2,88			0,107 Cyp2d26,CYP7B1,HAL
LXR/RXR Activation	2,56	0		0,0407 ACACA,APOB,CYP7A1,NR1H4,S100A8
FXR/RXR Activation	2,52			0,0397 APOB,CYP7A1,G6PC1,NR1H4,VLDLR
Ketogenesis	2,5			0,182 ACAA2,ACAT2
TR/RXR Activation	2,38			0,0476 ACACA,CYP7A1,G6PC1,PCK1
Estrogen Receptor Signaling	2,34	0,4472136		0,0222 MED30,MT-ND2,MT-ND3,NDUFA11,NDUFA4L2,PGF,RRAS,SDHC,SDHD
Mevalonate Pathway I	2,29			0,143 ACAA2,ACAT2
Role of IL-17A in Psoriasis	2,29			0,143 IL17RC,S100A8
Superpathway of Citrulline Metabolism	2,23			0,133 CPS1,OAT
Glucocorticoid Receptor Signaling	2,23			0,0189 G6PC1,IL17RC,MT-ND2,MT-ND3,NDUFA11,NDUFA4L2,PC,PCK1,RRAS,SDHC,SDHD
Isoleucine Degradation I	2,07			0,111 ACAA2,ACAT2
Superpathway of Geranylgeranyldiphosphate Biosynthesis	2,07			0,111 ACAA2,ACAT2
HOTAIR Regulatory Pathway	2,05	1,3416408		0,0307 let-7,mir-29,mir-7,mir-8,SPP1
Glutaryl-CoA Degradation	1,94			0,0952 ACAA2,ACAT2
TCA Cycle II (Eukaryotic)	1,87			0,087 SDHC,SDHD
PXR/RXR Activation	1,85			0,0462 CPT1A,CYP7A1,G6PC1
LPS/IL-1 Mediated Inhibition of RXR Function	1,84			0,0236 CPT1A,Cyp2d26,CYP7A1,FMO5,GSTA5,NR1H4
Neuroprotective Role of THOP1 in Alzheimer's Disease	1,84	1		0,0333 GNRH1,PRSS8,SERPINA3,TMPRSS2
Pregnenolone Biosynthesis	1,73			0,0741 Cyp2d26,CYP7B1
Tryptophan Degradation III (Eukaryotic)	1,7			0,0714 ACAA2,ACAT2
Superpathway of Cholesterol Biosynthesis	1,67			0,069 ACAA2,ACAT2
Ubiquinol-10 Biosynthesis (Eukaryotic)	1,65			0,0667 Cyp2d26,CYP7B1
Biotin-carboxyl Carrier Protein Assembly	1,64			0,333 ACACA
Thyroid Cancer Signaling	1,63			0,038 CXCR4,IRS2,RRAS
Insulin Receptor Signaling	1,62	0		0,0286 GYS2,IRS2,PPP1R3D,RRAS
Chemokine Signaling	1,61			0,0375 CAMK2B,CXCR4,RRAS

Analyses set B: hepatocyte derived miRNAs

Ingenuity Canonical Pathways	-log(p-value)	zScore	Ratio	Molecules
HOTAIR Regulatory Pathway	4,69	1		0,0245 let-7,mir-29,mir-7,mir-8
Cancer Drug Resistance By Drug Efflux	4,57			0,0517 mir-154,mir-181,mir-379