

Supplementary Table-2: List of upregulated genes in ATP9A knock-down HepG2 cells

No	Gene symbol	Gene name	Fold differences	P value
1	LOC441131	Similar to Actin related protein 2	4,11	5,38E-05
2	LOC644863	signal recognition particle 14kDa	2,21	5,54E-05
3	ARPC3	Actin related protein 3	3,5	5,89E-05
4	CCDC90B	coiled-coil domain containing 90B	2,57	7,55E-05
5	LOC442609	Similar to speedy homolog A, transcript variant 7	2,82	1,39E-04
6	PEX11B	peroxisomal biogenesis factor 11 beta	2,43	1,57E-04
7	LOC729841		4,05	2,36E-04
8	ITGA6	integrin, alpha 6	2,04	2,84E-04
9	SRP14	signal recognition particle 14	2,13	4,34E-04
10	HIST1H2BJ	histone cluster 1	2,18	1,35E-03
11	SRP14P1	signal recognition particle 14 pseudogene 1	2,12	2,02E-03
12	SKA2	spindle and kinetochore associated complex subunit 2	2,18	2,08E-03
13	NPEPPS	aminopeptidase puromycin sensitive	2,33	2,31E-03
14	CYR61	cysteine-rich, angiogenic inducer, 61	3,75	2,39E-03
15	GCNT2	glucosaminyl (N-acetyl) transferase 2	2,49	2,39E-03
16	KIAA1324	KIAA1324	2,79	2,72E-03
17	SLC16A4	solute carrier family 16, member 4	2,19	2,73E-03
18	CCNYL1	cyclin Y-like 1	2,14	3,05E-03
19	COX7C	cytochrome c oxidase subunit VIIc	2,39	3,36E-03
20	TNFRSF10D	tumor necrosis factor receptor superfamily, member 10d	2,33	3,44E-03
21	TATDN3	TatD DNase domain containing 3	2,18	3,65E-03
22	ACOT9	acyl-CoA thioesterase 9	2,24	3,78E-03
23	TP53I3	tumor protein p53 inducible protein 3	2,4	4,74E-03
24	LOC100216001	long intergenic non-protein coding RNA 704	2,61	5,07E-03
25	SERPINE1	serpin peptidase inhibitor, clade E member 1	2,53	5,33E-03
26	F2RL1	coagulation factor II (thrombin) receptor-like 1	2,41	5,36E-03
27	LOC647859		2,02	5,42E-03
28	BIN1	bridging integrator 1	2,01	5,58E-03
29	SH3RF1	SH3 domain containing ring finger 1	2,01	5,65E-03
30	EIF4E2	ukaryotic translation initiation factor 4E family member 2	3,04	6,69E-03
31	BTG2	BTG family, member 2	4,45	6,76E-03
32	TIMP2	TIMP metallopeptidase inhibitor 2	2,57	6,83E-03
33	ARHGDIIB	Rho GDP dissociation inhibitor (GDI) beta	2,65	8,13E-03
34	PEAR1	platelet endothelial aggregation receptor 1	2,21	8,17E-03
35	ITGA3	integrin, alpha 3	2,55	8,45E-03
36	ANGPTL4	angiopoietin-like 4	4,68	8,50E-03
37	SDC4	syndecan 4	3,75	8,92E-03

38	DCP2	decapping mRNA 2	2,24	0,01
39	CMTM3	CKLF-like MARVEL transmembrane domain containing 3	2,82	0,01
40	MOSPD1	motile sperm domain containing 1	2,2	0,01
41	C9orf86		2,1	0,011
42	EBI3	Epstein-Barr virus induced 3	3,68	0,011
43	HBEGF	heparin-binding EGF-like growth factor	2,48	0,011
44	XLKD1	lymphatic vessel endothelial hyaluronan receptor 1	2,41	0,012
45	FBXW7	F-box and WD repeat domain containing 7,	2,26	0,013
46	HIST1H2AC	histone cluster 1, H2ac	2,41	0,014
47	IGFBP6	insulin-like growth factor binding protein 6	2,04	0,015
48	C12orf44		2,12	0,016
49	IL1R1	interleukin 1 receptor, type I	2,12	0,017
50	MATN3	matrilin 3	2,06	0,017
51	KLRC3	killer cell lectin-like receptor subfamily C, member 3	3,22	0,018
52	SERTAD1	SERTA domain containing 1	2,08	0,019
53	CTHRC1	collagen triple helix repeat containing 1	3,04	0,02
54	STK17B	serine/threonine kinase 17b	2,56	0,023
55	LMCD1	LIM and cysteine-rich domains 1	2,93	0,023
56	HSPB8	heat shock 22kDa protein 8	2,04	0,024
57	EMP3	epithelial membrane protein 3	2,24	0,024
58	CDKN2B	cyclin-dependent kinase inhibitor 2B	2,46	0,024
59	PPCS	phosphopantethenoylcysteine synthetas	2,07	0,025
60	ASB4	ankyrin repeat and SOCS box containing 4	2,06	0,025
61	OBFC2A	oligonucleotide/oligosaccharide-binding fold containing 2A	2,2	0,027
62	GCNT3	glucosaminyl (N-acetyl) transferase 3, mucin type	2,21	0,029
63	ACTG2	actin, gamma 2, smooth muscle, enteric	2,43	0,03
64	SCFD1	sec1 family domain containing	2,22	0,032
65	ANXA3	annexin A3	2,05	0,032
66	DUSP1	dual specificity phosphatase1	2,1	0,037
67	QPCT	glutaminyl-peptide cyclotransferase	2,2	0,037
68	CDKN1A	cyclin-dependent kinase inhibitor 1A	2,02	0,041
69	GFPT2	glutamine-fructose-6-phosphate transaminase 2	2,14	0,043
70	LOC124220	zymogen granule protein 16B	2,33	0,043
71	RELB	v-rel avian reticuloendotheliosis viral oncogene homolog B	2,2	0,044
72	UPP1	uridine phosphorylase 1	2,13	0,045
73	LOC731954		2,01	0,046
74	CST4	cystatin S	2,27	0,048
75	ATF3	activating transcription factor 3	2,03	0,05

Supplementary table-2: List of ≥ 2 fold upregulated genes in ATP9A depleted HepG2 cells compared to controls after gene expression microarray (as described for supplementary table-1). List of genes are presented in the order of their significance.