

Supplemental file

Article title:

MicroRNAs in apple-derived nanoparticles modulate intestinal expression of OATP2B1/*SLCO2B1* in Caco-2 cells

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Supplemental Table 1 Primer sequences for plasmid construction

Primer Name	Sequence (5' to 3')
<i>SLCO2B1</i> -3'UTR _Fwd.	TTTTCTAGAGCTGTCTTGGGGCCCCACCT
<i>SLCO2B1</i> -3'UTR _Rev.	TTTTCTAGAAAAGATTGGAAAAGATGTAA
<i>SLCO2B1</i> -3'UTR(+2343–+2562)_Fwd.	CCGTCTAGAGCCTTTGCTTGCTAGTCTGA
<i>SLCO2B1</i> -3'UTR(+2343–+2562)_Rev.	TTTTCTAGAACCTGGGCTGGGGCCCAGCA
<i>SLCO2B1</i> -3'UTR(+2715–+2913)_Fwd.	ATATCTAGAGTCCCTTTGGCGCCCCCTGG
<i>SLCO2B1</i> -3'UTR(+2715–+2913)_Rev.	ATATCTAGACACCCTCAACCGTGGCTCCC

Bold letters indicate complementary sequence to template.

Supplemental Table 2 Primer sequences for plasmid mutagenesis

Primer Name	Sequence (5' to 3')
<i>SLCO2B1</i> -3'UTR Mut1a_Fwd.	CTGG C CGGTCCGTTTCCTGGGTGGAAAGAA
<i>SLCO2B1</i> -3'UTR Mut1a_Rev.	GAAAC G GACCGGCCAGGACAGCTGGCTGGC
<i>SLCO2B1</i> -3'UTR Mut1b_Fwd.	TAGTG C CGGTCCGTGCCCTCCATGCTGGGCC
<i>SLCO2B1</i> -3'UTR Mut1b_Rev.	GGC A CGGACCGGCACTATGGCTCACTTTGC
<i>SLCO2B1</i> -3'UTR Mut2_Fwd.	GCCT A GTTCCTCCCCTGTGTGGGGGCCCCAG
<i>SLCO2B1</i> -3'UTR Mut2_Rev.	CAG G GGAGAACTAGGCCCTGCCAAGTCTGG
<i>SLCO2B1</i> -3'UTR(+2715–+2913) Mut2_Fwd.	GCCT A GTTCCTCCCCTGTGTGGGGGCCCCAG
<i>SLCO2B1</i> -3'UTR(+2715–+2913) Mut2_Rev.	CAG G GGAGAACTAGGCCCTGCCAAGTCTGG

Bold letters indicate mutational sequence for candidate miRNA.

Supplemental Table 3 Primer sequences for miRNA detection

Primer Name	Sequence (5' to 3')
mdm-miR-160a-e	TGCCTGGCTCCCTGTATGCCA
mdm-miR-390a-f	AAGCTCAGGAGGGATAGCGCC
mdm-miR-391	TACGCAGGAGAGATGACGCCG
mdm-miR-395a-i	CTGAAGTGTTTGGGGGAACTC
mdm-miR-477b	ACTCTCCCTCAAGGGCTTCGAC
mdm-miR-7121a-c	TCCTCTTGGTGATCGCCCTGT
mdm-miR-7121d-h	TCCTCTTGGTGATCGCCCTGC
hsa-miR-1	TGGAATGTAAAGAAGTATGTAT