

Supplementary Material

Table S1: Sequence of siRNA constructs used for knockdown expression of *Mtr* and *Mthfd1*.

Construct Name	Gene	Nucleotide Sequence of dsRNA
Hs_MTR_4	<i>Mtr</i>	5'-UCCCAAGAUUUUAACGACAA-3'
Hs_MTR_5	<i>Mtr</i>	5'-CAGCGGGAGAAGCUAAACGAA-3'
Hs_MTHFD1_2	<i>Mthfd1</i>	5'-GAGGUAGAAUUAUAUGGUGAA-3'
Hs_MTHFD1_7	<i>Mthfd1</i>	5'-CAGAUCACCAUCCAUCUCAA-3'

Table S2: siRNA Transfection Mixtures. Concentrations and amounts of siRNA transfection mixtures used for knockdown expression of *Mtr* and *Mthfd1*.

Gene	[siRNA] (nM)	2uM siRNA (uL)	DEPC-H₂O (uL)	HiPerfect (uL)	Serum-free Media (uL)
<i>Mtr</i>	12.5	15	85	12	188
<i>Mthfd1</i>	20	24	76	12	188
Negative Control	10	12	88	12	188
Positive Control	10	12	88	12	188
Transfection Control	0	0	100	12	188