

S5 Table. Primers sequences for *CMAH* analysis and genotyping.

<i>Genomic analysis</i>		
CMAH region	Forward primer	Reverse primer
Exon 1	ttccttgctgctggagtg	gctctgctgctcsgtggtg
Exon 2*	tgagcaagcagagcgtgcat	ctaagtgagcacacacgaagattatgaatt
Exon 3	ggtgctcaagcccctcatthaa	tggtcacagtctgtcctaggcac
Exon 4 [§]	cccttgatttttggtactctgtgtac	taatacacacacataaatggacatcttag
Exon 5	taaaaccaaccgggagagtttctat	acacatgaaaactgtatgatattcgca
Exon 6-7	ggagcaaactgtctcttactagggtga	gaaatgaagatagtagaagatggftatcactc
Exon 8	ttccttggatagaagtaattcttctctgat	gttcccagttaagactgtaaacttcttg
Exon 9	agagagcactttcactcatgacaca	agacaatctctgtaattggattctagct
Exon 10	aagacaaagtataagtacaacttctggactaa	acaagacttaataattcctacaaacgagg
Exon 11	caaaagatgtggagtttcccatagt	acaatctgtgggacaagaatgct
Exon 12	gagggactatacgaactccaattcatt	gacaactgacacagtaaaggaagggtg
Exon 13	tgcgttctgtagatgaggagactgc	gaatgaagctctaattggtggaatctca
Exon 14	aatgccaggcactgaaacagta	gatttagctctgaacactcactgcc
<i>RNA analysis</i>		
Primer name		
CMAH-5UTR		tgacagaccttccgtctaaatcttc
CMAH-1F	atgctccttgagttcccttgact	
CMAH-2F	gagcaccatgaaatacgtcaatcc	
CMAH-3F	tccaatattggcagcaggtaga	
CMAH-4F	aaatgacccaatgaactcaataatctt	
CMAH-3UTR	ggacgactgtatataggattccaaac	
CMAH-1R		cattttctcatccatttcaacaactag
CMAH-2R		agtccactgtattaagtatcttatgaccttt
CMAH-3R		tctatgatgcccttgcctgtctgt
CMAH-4R		aaaacaggtgatggtatatgtcaggac
<i>Genotyping</i>		
Primer name		
FAM-CMAHdelF	tgagcaaaaggatcagatctaaacg	
CMAHdelR		aaatgcacgctctgcttgct
FAM-364F	FAM-cgtgtttgtgtgaatacgtg	
364wtR		tgggttctgaatccAaggg
364affectedR		gtttctttgggttctgaatcTcagga
CMAH ex2 F	<u>Biotin-gaagaccggcaaaagatttcat</u>	
CMAH ex2 R		<u>ctccttgatgcttgacac</u>
CMAH ex2 Seq		<u>acacgttcttgacagccctca</u>
CMAH ex4 F	gacccttttggtccagttgtg	
CMAH ex4 R		Biotin-cacttctccaaaagccaaatggt
CMAH ex4 Seq	cttttacttctagaactgaatcctccaat	

*Primers used at the University of Missouri to genotype c.142G>A variant. [§]Primers used at the University of Missouri to genotype c.364C>T variant.