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2 **Supplementary Figure 1. Study design.**

1 **Supplementary Table 1.** SNPs associated with MPA level and sequence information of primers and reporters for genotyping.

Gene	SNPs	Sequence Change	Forward Primer	Reverse Primer	Reporter 1	Reporter 2
<i>UGT1A8</i>	rs1042597	NM_019076.4: c.518C>G	CCCTCCCCTCTGTGGT	GGCACTGTGCACCTTCT	TAGTGGCAAGCTATT	TAGTGGCAACCTA
		(*2)	CTT	TCA	C	TTC
<i>UGT1A9</i>	rs17868320	NM_021027.2: c.-2152C>T	TGATCTCAGCTCAATG	TGCCTGTAATCCCAGCT	AGAATCACTTGAAC	AGAATCACTTAAA
			CAACCT	ACTCT	CCGG	CCCGG
	rs72551330	NM_021027.2: c.98T>C	AGGCAGGGAAGCTAC	CCGACCTCATGGTGAAC	CCCATCCGTGGGCAC	TCCCATCCATGGG
			TGGTA	CA		CAC
	rs6714486	NM_021027.2: c.-275T>A	CTTCAAGGTCCAAAA	GCCCTGTGCTGCAATGT	ATAATTCTGCTACTA	ATTCTGCTTCTAAA
			GCATTGGTTA	T	AACTT	CTT
<i>UGT2B7</i>	rs7439366	NM_001074.2: c.802T>C	CTGACGTATGGCTTAT	TGGAGTCCTCCAACAA	AGTGGATGAGGAAA	AGAGTGGATAAGG
		(*2)	TCGAAACTC	AATCAACAT	CT	AAACT
<i>IMPDH1</i>	rs2278293	NM_000883.3:c.579+119G>	GCCCTGCACTGCTAC	AGGAGCCAGTGGGAAA	TCCTCTCAGTAGAGC	CCTCTCAGTGGAG
		A	ACT	ATGAG	CT	CCT
	rs2278294	NM_000883.3:c.580-106G>A	ATTTTCCCCTGCTC	CACAGGGAACAGAGGA	AAGCCAGGATCCTC	AGCCAGGACCCTC
			CTCATC	TGCA	AG	AG
<i>IMPDH2</i>	rs12143458	NM_000884.2:c.787C>T	GCCCTGCACTGCTAC	AGGAGCCAGTGGGAAA	TCCTCTCAGTAGAGC	CCTCTCAGTGGAG
	6		ACT	ATGAG	CT	CCT
	rs11706052	NM_000884.2:c.819+10T>C	GCAGCTGCCCTAATTG	GGTGTGGATGTAGTGGT	ACCTGTGTAGCAGCT	CTGTGTGGCAGCT
			C	TTTGGT	C	C
	rs72639214	NM_000884.2:c.98+93G>C	TTCCGAGAGCCGCCT	TGGCCAATCCCGAAAC	CCACGCGCACGCC	CCCACGCCACGC
		(IVS1+93)	TG	CT		C

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2 **Supplementary Table 2.** Primer information for real-time PCR analysis of mRNA expression.

Genes	F/R	Sequences	Tm (°C)	Exon	Product Size (bp)
<i>IMPDH1</i>	F	TTCGTGCCCTACCTCATAGC	60.2	E15	80
	R	ATGGACCGAAGGACAGACAG	60.1	E15/16	
<i>IMPDH2</i>	F	CAGGCATCACACTGAAGGAG	59.4	E6	60
	R	GCAACTTTCCTTCTTGCTG	60	E6/e7	
<i>ACTB</i>	F	CTCTTCCAGCCTTCCTCCT	60	E4	116
	R	AGCACTGTGTTGGCGTACAG	60	E5	

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