

Supplementary Table 1 Primers and PCR conditions
Gene *ABCC2*

Exon	Primer	Sequence 5'-3'	Product size bp	Tm
1	DJ1F	aggtcatcctttacggagaaca	209	60
	DJ1R	tgagtctgagaagagtcaatatgaaga		
2	DJ2F	aaagcagtgggatgtgctg	309	60
	DJ2R	tgtctctactgtgcaccaagg		
3	DJ3F	tatccatcaccggaaacct	310	60
	DJ3R	atttgttcacccattcca		
4+5	DJ4-5F	catgttctctgacatccttctcc	311	60
	DJ4-5R	ccgtgagaccagacatctt		
6	DJ6F	cccataagttcctgtctcc	312	60
	DJ6R	ggcaacaagagcaaaactcc		
7	DJ7F	gtcccattcttctgtcctct	313	60
	DJ7R	atgccatgatgctgatgta		
8	DJ8F	gagctgctcaggccagtaac	314	61
	DJ8R	aaaggagggtggcagagga		
9	DJ9F	gtctagctggctgtgcatga	315	60
	DJ9R	tgaggggattttctttggtg		
10	DJ10F	tagtatccttggctttgtcc	316	55
	DJ10R	gggtttacactttaagaaagc		
11	DJ11F	ccctctctcatggaagcgt	317	60
	DJ11R	gagagccactgcttctgtcc		
12	DJ12F	atacactggtgcccttca	318	60
	DJ12R	cctttcaggaagctgatgc		
13	DJ13F	tagcacaatgctgcttggtc	319	60
	DJ13R	ctggactccaaggctttaacc		
14	DJ14F	tctctctgcttgtgctggt	320	59
	DJ14R	gcgaataagttgggaagca		
15	DJ15F	gtcacgtggggacctacatt	321	60
	DJ15R	aatagggcaggcagtgagaa		
16	DJ16F	tcaataccaaccctgcta	322	60
	DJ16R	attcgggagtcagaggcttt		
17	DJ17F	tcctcaaccctgcgtttct	323	61
	DJ17R	cttcaatatgccttcacccttg		
18+19	DJ18-19F	tgtgaaggtggatctagggagt	324	60
	DJ18-19R	accatggccaagtctat		
20+21	DJ20-21F	gggatctatgcagctctttcc	325	60
	DJ20-21R	tcaaatgctactttctgtgtgg		
22+23	DJ22-23F	ggttggcattctaggtgatcc	326	59
	DJ22-23R	cagtgtgtctagggggaca		

24	DJ24F	cctcagtgatgggtatctctcc	327	60
	DJ24R	ggaaagaggctgggcttta		
25	DJ25F	agaaaggaggaagatgggtga	328	60
	DJ25R	aaccccaaagtacacacatgg		
26	DJ26F	gctgggtaagatgaggacgtg	329	59
	DJ26R	aacgaaaccaaactccaac		
27+28	DJ27-28F	ccttggtggttgagtgggtg	330	59
	DJ27-28R	ctgctctccactctgtccaa		
29	DJ29F	ggctaaataacttttccccaaga	331	60
	DJ29R	gcatgtgcccagtaagttc		
30	DJ30F	gaggtccttttctggcatga	332	60
	DJ30R	aacacgaggaacacgaggag		
31	DJ31F	aacacatgggtgcttctattgg	333	60
	DJ31R	aaggggtaagccatccgtgt		
32	DJ32F	gcctagacttgagatgctg	334	54
	DJ32R	cacctattgcatcacca		

TATAA box of *UGT1A1*

Primer	Sequence	Product	Tm
TATA F	6FAM-aactccctgctacctttgtgg	241/243	60
TATA R	tccaacagtatctcccagcatggg		

PCR program

- 1 95°C/2 min
- 2 95°C/30 sec
- 3 Tm°C/40 sec
- 4 72°C/30 sec go to step 2, repeat steps 2-4 30 times
- 5 72°C/30 sec