

Supplementary Material

Supplemental Table I

Table SI. List of primers used for SDM of *DlP5βR*. Primers were constructed to contain one to three nucleotide miss-matches flanked at both sides by at least 9 bases that are complementary to the wild-type *DlP5βR* gene sequence. GC content was at least 40 %.

Primer	Sequence (5'- 3')
W106A_F	G TTC TAC GTT ACC GCG GCTA ATC GAT C
W106A_R	GA TCG ATT AGC CGC GGT AAC GTA GAA C
G145A_F	CA TTG CAG ACT GCT AGG AAG CAT TAC
G145A_R	GTA ATG CTT CCT AGC AGT CTG CAA TG
K147A_F	G ACT GGG AGG GCG CAT TAC ATG G
K147A_R	C CAT GTA ATG CGC CCT CCC AGT C
F153A_F	C ATG GGA CCA GCT GAA TCC TAC GG
F153A_R	CC GTA GGA TTC AGC TGG TCC CAT G
M215A_F	CCA TAT AGT ATG GCG AAT TTG GTG GG
M215A_R	CC CAC CAA ATT CGC CAT ACT ATA TGG
F343A_F	C GGA ATT TGG TGG GCT GGT GAT GTT ATA C
F343A_R	G TAT AAC ATC ACC AGC CCA CCA AAT TCC G

Table SII. List of primers used for SDM of *AtP5 β R*. Primers were constructed to contain one to three nucleotide miss-matches flanked at both sides by at least 9 bases that are complementary to the wild-type *AtP5 β R* gene sequence. GC content was at least 40 %.

Primer	Sequence (5'- 3')
G145A_F	C TTC TAC GTC ACC GCG ACC AAT CGT G
G145A_R	C ACG ATT GGT CGC GGT GAC GTA GAA G
F153A_F	CTT GGC CCT GCC ACC AAC GTT G
F153A_R	C AAC GTT GGT GGC AGG GCC AAG
F343A_F	GT GTG TGG TGG GCT GCT GAT GTT ATA C
F343A_R	G TAT AAC ATC AGC AGC CCA CCA CAC AC
V156F_F	TTC ACC AAC TTT GAC GGA CCT
V156F_R	AGG TCC GTC AAA GTT GGT GAA
V345F_F	TTT GCT GAT TTT ATA CTT GGA
V345F_R	TCC AAG TAT AAA ATC AGC AAA



