

Sequencing Primers used for verification of genotypes			
Primer	Sequence		
Chr1 39603 for	GATTGTGATTCATTGGCAGG		
Chr1 39603 rev	TCCTTCCTTAGCTTTGGTAC		
Chr2 616436 for	GAACGACGCTACTAAATCGC		
Chr2 616436 rev	GTTTCTCCCCGCTAGGCC		
Chr4 1014688 for	CCTTGGGAATTTGGAGCTC		
Chr4 1014688 rev	GAATCAAACCTAACCCAGCGC		
Chr6 73424 for	CTAGTCCAGGATCCTGATC		
Chr6 73424 rev	CTTGAAGCACGTTGGTATC		
Chr7 617106 for	TTCTGCCTCTTCTTGTCTC		
Chr7 617106 rev	TGAGGTTGTGGAGCTGTTG		
Chr11 64696 for	AGGGTCCTTATCAAACATTTG		
Chr11 64696 rev	TTTAGATTTTGGTTCGACTATG		
Chr15 893328 for	AGGGCTACTGTTTCTAGCG		
Chr15 893328 rev	TGTTGGATTTGCTTCCATCG		
Chr16 422264 for	TGAAACTACATGAAATCATGAC		
Chr16 422264 rev	AGATGCTGAAGATCGTGAAG		
Chr16 912519 for	TTCTTCCCCTGATAGATAAG		
Chr16 912519 rev	CATCATACGAAAGTATGTCTG		
Primers for Allele Frequency Determination			
Gene / location	Primer	Sequence	Comment
<i>GPB2</i>	chr1 yellow wt for	GGGCATGCGTTGAAGAATCC	common forward primer
	chr1 yellow mut rev	AATGGAATCCCAACAATTATCTC	mutant allele-specific reverse primer
	chr1 yellow rev	GACCGCACAGTACGATTACAG	wild-type allele-specific reverse primer
<i>SLY41</i>	chr15 yellow wt for	TCTTACTGCCATGTGTTGACC	wild-type allele-specific forward primer
	chr15 yellow mut for	CTCTTACTGCCATGTGTTGACA	mutant allele-specific forward primer
	chr15 yellow rev	TCGAACATCGTTATTACAATTCC	common reverse primer
<i>MUK1</i>	chr16 yellow wt for	CAGTAGAGTCTCATTGCCATC	wild-type allele-specific forward primer
	chr16 yellow mut for	CAGTAGAGTCTCATTGCCATA	mutant allele-specific forward primer
	chr16 yellow rev	CTTGGATAGTAGGAGTCACG	common reverse primer
<i>IRA1</i>	chr2 yellow wt for new	GCCAAATGATACTGTAGAAGATC	wild-type allele-specific forward primer
	chr2 yellow mut for	GCCAAATGATACTGTAGAAGATT	mutant allele-specific forward primer
	chr2 yellow rev	TTGAATCTGCAAAAGCATTGGC	common reverse primer
<i>MTH1</i>	chr4 green wt for	GTCTTTTTAAGTTGGACTGTTG	wild-type allele-specific forward primer
	chr4 green mut for	GGTCTTTTTAAGTTGGACTGTTA	mutant allele-specific forward primer
	chr4 green rev	TTAAATATAGCAGTAGAGGCAC	common reverse primer
<i>TAF5</i>	chr2 red wt for	TAAGGAATAAATGGCATTCTTAC	wild-type allele-specific forward primer
	chr2 red mut for	ATAAGGAATAAATGGCATTCTTAA	mutant allele-specific forward primer
	chr2 red rev	TAGCGAAGATGGTATTATTAATG	common reverse primer
<i>RIM15</i>	chr6 red wt for	GAAATGGTTCCTGATCTTTACC	wild-type allele-specific forward primer
	chr6 red mut for	TGAAATGGTTCCTGATCTTTACA	mutant allele-specific forward primer
	chr6 red rev	GGAATTGATCTAACAAAGCATTG	common reverse primer
<i>COX18</i>	chr7 red wt for	CACATATACCATGGATAGTGCT	wild-type allele-specific forward primer
	chr7 red mut for	CACATATACCATGGATAGTGCA	mutant allele-specific forward primer
	chr7 red rev	AGTTCTTGTGTTTCAAAATTCTC	common reverse primer
<i>MNN4</i>	chr11 red wt for	GACTACATTAGATCAAGTTACCA	wild-type allele-specific forward primer
	chr11 red mut for	ACTACATTAGATCAAGTTACCG	mutant allele-specific forward primer
	chr11 red rev	ATGTTGAAAAGTGAAAAATTCCTG	common reverse primer
chr16 intergenic	chr16 red wt for	ACGATTCGAAATTAATCTTTTCTT	wild-type allele-specific forward primer
	chr16 red mut for	CGATTCGAAATTAATCTTTTCTG	mutant allele-specific forward primer
	chr16 red rev new	TTCTTTTCTGTGTTCTTAGTGTC	common reverse primer
<i>HXT6/7</i>	hxt6 for	AATGGCTTATCATCGTGAGCC	
	hxt6 rev	CCTCATGGGTTCCACCATCT	

Supplementary Table 3. Primers used.