

Strain ID	MT1330
Strain Name	col10a1a(del19)

Mutated Gene	typeX collagen a1 a (col10a1a)
Linkage Group	LG22
GenBank Accession No. for cDNA	GU144299.1
Nucleotide Change (WT > MT)	CCTCTGCAGCAGCCCATGG > del
Location of mutated nucleotide in wild-type genomic sequence	CCTCATTGTGGCCTCTGCAGCAGCCCATGGAAAGGGAT ATGTGGTGAAGA > CCTCATTGTGG----- --AAAGGGATATGTGGTGAAGA

Forward primer sequence (5'-3')	CGAACAGTAAGCTGAGAATGA	
Reverse primer sequence (5'-3')	CACAGGAAAGCTTCTCACTC	
PCR Product Size (bp)	MT	360
	WT	379
PCR Reaction Conditions	KOD Plus (TOYOBO)	
Thermocycler Program	95 °C 2 min (94 °C, 30 sec, 55 °C 30 sec, 68 °C 30 sec) x 30	
PCR Product Sequence (WT)	CGAACAGTAAGCTGAGAATGAAACAAGACAAGAATCTA AACTCCACGAGCTTCATTTTTAAGACTTTCAAAGTACT GCAGTTGTCTTCTCCAAACAGATCTGACCTTGCAAGAT GGACGTACGAGTTGCAAGCATCCTCCTCCTCATTGTGG CCTCTGCAGCAGCCCATGGAAAGGGATATGTGGTGAAG AAGGTGTTCCCTGTGAAGAGCCAGAGTAAGAAAAATGC AGACTCCTTGACACGCACTTTCAAACACAAACAAAGC TGACAGTAGTTCCTAAAACATCAAATGTTTGTGAGGTCT CTCCATAAAATGATATTTTTCTTTTACAAATCTTGTTG CATCTTTAGTTCTTGAGTGAGAAGCTTTCCTGTG	

Restriction enzyme(s)	StyI (EcoT14I)	
Restriction digestion product sizes (bp)	MT	360
	WT	212, 167