

Supplementary file 1 Sequences of the primers used in the amplifications

Primers	Primer sequence (5'-3')	Usage
P1	F: CCTCAACAAAGGCTGGTTCA R: GCATGGCATGTGATAGGGAC	g.36938224T>A detection
P2	F: TGCTCCGGGGTGTTCCTCC R: CTCTGCAGTGTGTTGGTGTGTC	g.37034573A>G detection
P3	F: CCGACCACCCATTCTTCT R: GGTTTGCTTTCCTGGTGTGT	DLX3:c.*803A>G detection
P4	F: TCAGCATCTACAAAGCACCACTC R: TCACATTCACAATCAGCACAGGT	g.36971115C>T detection
P5	F: TTTAGCACCACCAGAGTTTGAGG R: ACCCAAACAGAGGCAACACAG	g.36946470 C>T, g.36946465 G>A detection
P6	F: GCATTTAGTCTTGCGCTCTCG R: GCTGGTGGTGTTCCTTCTGGGT	g.36942215T>C detection
P7	F: AAACCTCAGAATGACGCAAG R: TCAGAGGAGAATCCACACCC	g.36933082C>T, g.36933070G>A detection
P8	F: TGGCAGTGTGCTTGGAATGT R: AAGTAGGAACAGCCTGACGGA	g.36930089T>G detection
P9	F: ACCACTCCTTCAGCCTAGTG R: TCATCGTCCACCCAGAGAAC	<i>B4GALNT2</i> -conservative sequence
P10	F: CAGACTGAACTCCCTGCGGTGA R: CACATCCAGTTCGGTCTTCTC	<i>B4GALNT2</i> -conservative sequence
P11	F: AAGATTGAGGTGCTGGTGGA R: TGCCCTGATCAGTGATTGGT	<i>B4GALNT2</i> -conservative sequence
P12	F: CAGCCCTGGAGAAGACCTAC R: CCCACGCTCTGATCCTCTAA	<i>B4GALNT2</i> -conservative sequence
P13	F: CTTGAGGAAGTGGCAGTCTG R: GCCACTGCGCTTACAAAGTA	<i>B4GALNT2</i> -conservative sequence
P14	F: ATGGGATGCAAGAAGGTGGA R: TTTTGACCTACCGTGGCTGT	<i>B4GALNT2</i> -conservative sequence
5'GP1	AGAGGCTCTTGATGTGTTTCTCAGGGAG	<i>B4GALNT2</i> - 5'RACE
5'GP2	CCCAGGGCCAAGAATAAGACGGACATC	<i>B4GALNT2</i> - 5'RACE
3'GIP	TGGGATGCAAGAAGGTGGAGGGCAGAG	<i>B4GALNT2</i> - 3'RACE
3'GOP	GATTCTCCCACTGCTGCGCTGCCTTTT	<i>B4GALNT2</i> - 3'RACE
P15	F: CCTGAAAGCTTCTCTGGGGA R: CCGGCTACTGGTCAAAATGG	<i>B4GALNT2</i> - qRT
P16	F: CCAACCGTGAGAAGATGACC R: CCCGAGGCGTACAGGGACAG	β -actin - qRT