

**Table 3. Primer sequences used in the study**

Name	Primer	Sequence	C3H product (bp)	Polymorphism	Description
D7Dys1	F	TCCTCCGCCTCCTGATTATTC	270	D<C<B6	38.51 Mb (Location on Chr. 7)
	R	AGTCTGTGGCTTGGGGTCTCT			
D7Dys2	F	ATACAAGAGGGCTGGTGACG	215	D=C<B6	39.17 Mb (Location on Chr. 7)
	R	TGTGAATGAGTGTGCGTATGT			
D7Dys3	F	GCAATGAAAGAGGCAAGGTC	408	B6<D=C	41.87 Mb (Location on Chr. 7)
	R	AATGAACAAGGCAAGAAATG			
D7Dys4	F	GAGTATGTTTGAGGGTGGTT	265	D=C<B6	43.07 Mb (Location on Chr. 7)
	R	AGTTAGAAGGCAGAGGAGAG			
D7Dys5	F	CTGGGTTTGCTTGTTTC	188	C<D=B6	40.30 Mb (Location on Chr. 7)
	R	AGTATGAGGTGGCTGGTC			
D7Dys6	F	CCCTCACCCAATCATCAGA	293	B10=D=C<B6	40.32 Mb (Location on Chr. 7)
	R	AGGATTTGCTATTCGTTTCG			
D7Dys7	F	ATCCATTTCTGCCTTTAG	244	B6<C	41.02 Mb (Location on Chr. 7)
	R	TTTGTCTTGTCCTGTGCT			
D7Dys11	F	GTCCTGCAGTGACTCCATATGCTG	192	B6<D=C	39.56 Mb (Location on Chr. 7)
	R	CTATCTCCTCCCAGTCCCTCCCTTC			
D7Dys26	F	TTCTGTGCCACGAATGCTACCTG	330	C<B6=B10	40.40 Mb (Location on Chr. 7)
	R	CCTGAGCAATGGCACTTTCCTATG			
D7Dys43	F	GTTCAAGTGAAGACCCTGCCTC	169	B6=B10<C	40.05Mb Intron 29 of <i>Abcc6</i>
	R	TGTTGGCACTGATCTCAGATTTG			
D7Dys44	F	GGACTCTCAGCCTTTGAACTG	318	B6=B10<C	40.08Mb Intron 19 of <i>Abcc6</i>
	R	GGACAGCCAGGGCTATAGAG			
D7Dys45	F	ATCCTGCAAGTTACCCTCTG	286	C<B6=B10	40.14Mb 29kb 5' of <i>Abcc6</i> Exon1
	R	GCAGGAAGAGACAAGACCAC			
D7Seq3UTR	F	TGGAGCGCTGGTTTACACAG	628	C<B6=B10	40.12Mb 3'-UTR of <i>Abcc6</i>
	R	GGAGTTGTAAAGACGAGTCGGTC			
Abcc6Qpcr	F	GACTGTGCCAGAGTCCTAGTCATG	138	D=H<B6=B10	40.06Mb Exon 30-31 of <i>Abcc6</i>
	R	GTTGGTAAGAATCCTTATTCAAGCG			
BactinQpcr	F	CTTGGGTATGGAATCCTGTGG	134	n/a	Beta-actin
	R	CAGCAATGCCTGGGTACATG			

AnkQpcr	F	CTACAGAGGCAGTGGCCATTCTG	145	n/a	<i>Ank</i>
	R	GTGACCGTGTTGCTTGTGTTTCG			
Akp2Qpcr	F	AGGGCAATGAGGTACATCC	150	n/a	<i>Akp2</i>
	R	GCATCTCGTTATCCGAGTACCAG			(Primer Bank # 6671533a3)
Spp1Qpcr	F	TAGCTTGGCTTATGGACTGAGG	112	n/a	<i>Spp1</i>
	R	AGACTCACCGCTCTTCATGTG			(Primer Bank # 6678113a3)
Enpp1Qpcr	F	CTGGTTTTGTCAGTATGTGTGCT	231	n/a	<i>Enpp1</i>
	R	CTCACCGCACCTGAATTTGTT			
Dkk1Qpcr	F	CTCATCAATTCCAACGCGATCA	105	n/a	<i>Dkk1</i>
	R	GCCCTCATAGAGAACTCCCG			
Dkk2Qpcr	F	CACACTCCAAGATGCCTCATATAAA	78	n/a	<i>Dkk2</i>
	R	AAAACCCATCAATGCAGTCTGA			(Towler <i>et al.</i> , 2003)
LRP5Qpcr	F	AAGGGTGCTGTGTACTGGAC	220	n/a	<i>LRP5</i>
	R	AGAAGAGAACCTTACGGGACG			
LRP6Qpcr	F	GGCTGGCATGTGATTGGCT	130	n/a	<i>LRP6</i>
	R	GCTCTGGGTTGATCCAACCTCT			(Primer Bank # 6678718a2)
Ctnnb1Qpcr	F	ATGGAGCCGGACAGAAAAGC	108	n/a	<i>Ctnnb1</i>
	R	CTTGCCACTCAGGGAAGGA			(Primer Bank # 6671684a1)
BMP2Qpcr	F	GGGACCCGCTGTCTTCTAGT	154	n/a	<i>BMP2</i>
	R	TCAACTCAAATTCGCTGAGGAC			
Msx2Qpcr	F	TTCACCACATCCCAGCTTCTA	159	n/a	<i>Msx2</i>
	R	TTGCAGTCTTTTCGCCTTAGC			
Smad6Qpcr	F	CCGGGTGAATTCTCAGATGCC	131	n/a	<i>Smad6</i>
	R	ATGCTGACAGCCTGGTCGTACAC			

A total of 12 new microsatellite markers polymorphic between C3H and B6 were identified in the *Dyscalc1* region. Map locations are taken from NCBI build 34. Also shown are primer sequences used for genotyping the transgene and for determining the 10-bp deletion in the 3'-UTR of *Abcc6* genomic sequence and QPCR primers used for selected genes. F, forward; R, reverse; H, C3H; D, DBA; B6, C57BL/6J; B10, C57BL/10J. Primers obtained from the Primer bank (<http://pga.mgh.harvard.edu/primerbank>) (1) and published literature (2) are indicated.

1. Wang X, Seed B (2003) *Nucleic Acids Research* 31: 1-8.
2. Cheng SL, Shao JS, Charlton-Kachigian N, Loewy AP, Towler DA (2003) *J Biol Chem.* 278: 45969-45977.