

Table S3. Primers and probes used for the characterization of the canine *MITF* locus.

<b>Name</b>	<b>Primer sequence 5'-3'</b>
<b>Luciferase Construct PCR primers</b>	
SineF_NheI	GCGTCGACGCTAGCTGAAATTGATGGAAAATAACCTG
SineR_Bgl2	GTCGACGCAGATCTCTCGGGGCTCTCTGACTTT
LpF_Bgl2	GCGTCGACAGATCTATACATTTCACTCTGATTACC
LpR_Hind3	GTCGACGCAAGCTTTATTCCTCTCTCTACTTTCTG
F_PromMITF_1_Bgl2	GCGTCGACAGATCTTCTTCTCCAAAGGGGCAGC
F_PromMITF_2_Bgl2	GCGTCGACAGATCTGCTCATCACTTAAAAAGATT
F_PromMITF_3_Bgl2	GCGTCGACAGATCTTGAAGACCAAGCTCGTAGGA
R_PromMITF_Hind3	GTCGACGCAAGCTTTCCAATGAGAAACGGTAGAC
<b>Mutagenesis oligos</b>	
Mutagen_S_F	ATTTATTTTTTAAATGTGTAGCCCTTTCTTTTTTAAAGTGTA
Mutagen_S_R	TACACTTAAAAAAGAAAGGGCTACACATTTAAAAATAAAT
<b>Sequencing primers</b>	
SINE_seq_Fprimer	GTTCTCATTTATATGCTTGC
SINE_seq_Rprimer	GTAAGACCCTAAACCCTTT
Lp_seq_Fprimer	GTGAGTTTGACTTTGATAGC
Lp_seq_Rprimer	AGACTGACTGGCATAGAGA
RV3F (RVprimer3)	CTAGCAAATAGGCTGTCCC
GL2R (GLprimer2)	CTTTATGTTTTTGCGCTTCCA
Fwd_con_mitf1	CAGGATCTGAATGAAGAAAG
Fwd_con_mitf2	TCACAATATGGCTGTGAG
Fwd_con_mitf5	TGCTTAAGATAGCTCACCA
Fwd_con_mitf6	TCATGTGTAATAGTAGCTTTTAGG
Rev_con_mitf1	AGTGCTTGAGTATTATTACCAC
Rev_con_mitf3	AGGAGGTGGAACGTCTCTA
Rev_con_mitf4	TTACTCATTTACTTGTTCCATTA
Rev_con_mitf5	AGTGATGAGCTATCAAAGTCA
<b>Fragment analysis primers</b>	
MITF_LpFR_F	TGAAGACCAAGCTCGTAGGAC
MITF_LpFR_R_FAM	FAM - GACTGGCATAGAGAAGGCACT
<b>SINE insertion primers</b>	
SINE_MITF_F	TGGGTGGTTAGTTTGAAGGTC
SINE_middle_F	CCCTCTGCCTATGTCTCTGC
SINE_MITF_R	CCCCATCTTAGCCATGCTATT
<b>Exon 1B primers</b>	
1B_F	AGGATGCTCCTCGGAACTG
1B_R	CTCCGAAATGCAAACGAAAG

SNP#21 TaqMan Genotyping  
Assay

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F	GGGCAATGGGTGTAATGTGTTTATTT
R	AAAGAATAAGGATCTGCCAGTGAATTAACA
Probe_allele_G	VIC-TTTAAATGTGTAGCCCTTTC-NFQ
Probe_allele_A	FAM-TTTTAAATGTGTAACCCTTTC-NFQ