

Strain ID	MT973	MT974
Strain Name	MC4R(delta7)	MC4R(delta11)

Mutated Gene	melanocortin 4 receptor (MC4R)	
Linkage Group	LG20	
Nucleotide Change (WT > MT)	TCGGTCC>deleted	GCGTCTCCAAC>deleted
Location of mutated nucleotide in wild-type genomic sequence	ATGAACTCCACTCTGCCTTATGGG(TCGGTCC>del)CC AACAGAAGCCTCTCCTCGGCCA	TAGCCGATATGTTGGTCA(GCGTCTCCAAC>del)GCG TCTGAGACCATCGTCATA
Mutated Amino Acid (WT>MT)	MNSTLPYGSVPNRSLSATLPPDLGGQKDSSAGCYEQL	AVADMLVSVSNASET>AVADMLVSV*

Forward primer sequence (5'-3')	gctctgctggctggagcacagtgacg		gctctgctggctggagcacagtgacg
Reverse primer sequence (5'-3')	AGAAGATGGTGATGTAGCGGTCAACGGC		AGAAGATGGTGATGTAGCGGTCAACGGC
PCR Product Size (bp)	MT	652	648
	WT	659	659

sequencing primer	gctctgctggctggagcacagtgacg	GCTACGAGCAGCTTCTGATCTCCACTGAGG
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