

# Genotyping protocol

EM:09716

## B6.129P2-Msx1<sup>tm1Bero</sup>/Kctt

### Primers

ol-Msx1F-72 5' TTCTCCAGCTCGCTCAGCCTCACCGAGACC 3'  
 ol-Msx1R-72 5' GACCGCCAAGAGGAAAAGAGAGGCCGAAGGC 3'  
 ol-LacZR-72 5' GCAAAGCGCCATTCGCCATTCAGGCTGCGC 3'

### PCR profile

96 °C, 5 min

96 °C, 20 s

65 °C, 15 s

72 °C, 45 s

35 cycles

72 °C, 10 min

4 °C, ∞

### PCR mix

10 x PCR Buffer II (Life technologies)	3.0 µl
MgCl <sub>2</sub> (25 mM)	1.8 µl
dNTP mix (25 mM of each nucleotide)	0.24 µl
ol-Msx1F-72 (100 µM)	0.15 µl
ol-Msx1R-72 (100 µM)	0.15 µl
ol-LacZR-72 (100 µM)	0.15 µl
AmpliTaq Gold (5 U/µl)	0.15 µl
DNA template (~ 0.5 µg tail DNA)	2.0 µl
H <sub>2</sub> O	<u>22.36 µl</u>
	30 µl

### Post-PCR analysis

1.5% agarose gel.

Expected pattern is **wt: 180 bp****Tg: 250 bp**