

# Genotyping protocol

EM:09717

**B6.129S2-Msx1<sup>tm2.1(cre/ERT2)Bero</sup>/Kctt**

## Primers

Msx1CreERT272-F	5' GGC TGT CTC GAG CTG CGG CTG GAG GG 3'
Msx1CreERT272-R1	5' CCA TGG CGG TTG CGG TGG CCG CAG C 3'
Msx1CreERT272-R2	5' GCT GGA TAG TTT TTA CTG CCA GAC CGC GCG CC 3'

## PCR profile

96 °C, 5 min	
96 °C, 15 s	35 cycles
72 °C, 60 s	
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
Msx1CreERT272-F (100 µM)	0.15 µl
Msx1CreERT272-R1 (100 µM)	0.15 µl
Msx1CreERT272-R2 (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: 170 bp**  
**Tg: 310 bp**