



Home > JAX® Mice & Services > Find & Order JAX® Mice > JAX® Mice Database > Genotyping protocols database

[Return to Protocol Search](#)

Stock Number: **006096**

Strain Name: **B6.Cg-*Msr1<sup>tm1Csk</sup>/J***

Allele: *Msr1<sup>tm1Csk</sup>*

Protocol Name: *Msr1<sup>tm1Csk</sup>*

Method: Standard PCR

Version: 1.1

Created: 24-June -2008 Updated: 14-February -2011

Expected Results: Mutant = 202 bp  
Heterozygote = 154 bp and 202 bp  
Wild type = 154 bp

Gel Information: Separated by gel electrophoresis on a 1.5% agarose gel.

#### Protocol Primers

Primer	5' Label	Sequence 5' --> 3'	3' Label	Primer Type
oIMR5284	-	TCA AAC TCA AAA GCC GAC CTT AT	-	-
oIMR5285	-	AGG ACT TGG AGA TTG CAT CCA	-	Common
oIMR5286	-	GTG GTT TCC AAA TGT GTC AGT TTC	-	-

Number of Reactions

#### Reaction/Components

Reaction Component	Volume (µl)	Final Concentration	Total Volume (µl)
ddH2O	3.36	-	33.60
10 X AB PCR BufferII	1.20	1.00 X	12.00
25 mM MgCl2	0.96	2.00 mM	9.60
2.5 mM dNTP	0.96	0.20 mM	9.60
20 uM oIMR5284	0.60	1.00 uM	6.00
20 uM oIMR5285	0.60	1.00 uM	6.00
20 uM oIMR5286	0.60	1.00 uM	6.00
5 mM DNA Loading Dye	1.66	0.69 mM	16.60
5 U/ul Taq DNA Polymerase	0.06	0.03 U/ul	0.60
DNA	2.00	-	20.00

#### Cycling

Step #	Temp °C	Time	Note
1	94	3 min	-
2	94	30 sec	-
3	57	1 min	-
4	72	30 sec	repeat steps 2-4 for 35 cycles
5	72	2 min	-
6	10	-	hold

This genotyping protocol is used for the following strains:

Stock Number	Strain Name
006096	B6.Cg- <i>Msr1<sup>tm1Csk</sup>/J</i>

[Genotyping resources and troubleshooting](#)

This page contains guidelines, frequently asked questions, and helpful external links to genotyping and PCR resources.

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