



## Welcome to The Genotyping Protocol System

## Master Protocol

**Strain Name:** C57BL/6NJ-*Bmp2k<sup>em1J</sup>*J  
**Stock Number:** 026236  
**Allele:** *Bmp2k<sup>em1J</sup>*  
**Protocol Name:** *Bmp2k<sup>em1J</sup>*alternate1  
**Method:** Standard PCR  
**Created:** 10-June -2015 (JKELMEN) **Updated:** 10-June -2015 (JKELMEN)

## Notes

Expected Results: Mutant = 92 bp  
 Heterozygote = 92 bp and 255 bp  
 Wild type = 255 bp

## Protocol Primers

Primer	5' Label	Sequence 5' --> 3'	3' Label	Description	Reaction
21261	-	CTT CAC ACC GGA GCC ACT	-	Reverse	-
23947	-	TCT CTC GGA TGC CCA AGT C	-	Forward	-

## Reaction/Components A

Reaction Components	Volume Amt	Final Concentration	Total Volume Amt
ddH <sub>2</sub> O	4.55	-	-
5 X Kapa 2G HS buffer	2.40	1	-
25 mM MgCl <sub>2</sub>	0.96	2	-
10 mM dNTPS-kapa	0.24	.2	-
20 U Primer 1	0.30	.5	-
20 U Primer 2	0.30	.5	-
5 mM 10x Loading Dye	1.20	.5	-
2.5 U/ul Kapa 2G HS taq polymerase	0.05	.01	-
DNA	2.00	-	-

## Cycling

Step #	Temp °C	Time	Note
1	94	2 min	-
2	94	20sec	-
3	65	15sec	-0.5 C per cycle decrease
4	68	10sec	-
5	-	-	repeat steps 2-4 for 10 cycles
6	94	15sec	-
7	60	15sec	-
8	72	10sec	-
9	-	-	repeat steps 6-8 for 28 cycles
10	72	2 min	-
11	10	-	hold

Number Of Reactions 1

Version 3.2