

# Genotyping protocol

## General information:

Strain name	B6.129P2-Hipk1<tm1Mak>/Cnbc
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## Primers:

Name	Sequence	Primer type
MX177	TCGCCGCCAAGCTCTTCAGCAAT	Neo cassette
MX176	TGATGCCGCCGTGTTCCGGCTTGT	Neo cassette
HipK1exon1_F1	TGCCAGACAAGGACAGATTG	
HipK1exon_R1	ACCTGCTGCAAGATTGGTCT	

In case more than two primers are introduced, please indicate how they should be combined:

	Forward primer	Reverse primer
WT	HipK1exon1_F1	HipK1exon_R1
Mutant	MX177	MX176

## Reaction mix:

ddH <sub>2</sub> O	18,5	μl
PCR Buffer 15mM MgCl <sub>2</sub>	2,5	μl
dNTPs 2,5mM	2,5	μl
Primer 100μM	0,125	μl
Primer 100μM	0,125	μl
Taq Polymerase 5U/μl	0,250	μl
DNA	1	μl
Final volume	25	μl

## PCR program WT:

95	°C	5	min	X40
95	°C	60	sec	
62	°C	60	sec	
72	°C	60	sec	
72	°C	10	min	

## PCR program Mutant:

95	°C	5	min	X40
95	°C	60	sec	
62	°C	60	sec	
72	°C	90	sec	
72	°C	10	min	

## Expected fragment size:

wt	200	bp
mutant	600	bp

**Comments/Additonal information:**