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Stock Number: **030089**Strain Name: C57BL/6NJ-Cdc42bpb^{em1}(IMPC)J/JAllele: Cdc42bpb^{em1}J ProbeProtocol Name: Cdc42bpb^{em1}J Probe

Method: Probe

Version: 1.0

Created: 27-December -2016 Updated: 06-March -2017

Notes:

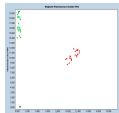
Taqman qPCR protocols are run on a real time PCR instrument. Use an appropriate instrument specific Fluorophore/Quencher combination. The transgene genotype is determined by comparing ΔC_t values of each unknown sample against known homozygous and hemizygous controls, using appropriate endogenous references.

Expected

Results: Mutant= 103 bp

Wild Type = 110 bp

Gel Image

Image	Image file
	View

Protocol Primers

Primer	5' Label	Sequence 5' --> 3'	3' Label	Primer Type	Note
31249		GCA CTT CAT CCC CGT TCT AA		Common	Reaction A
31252		AAT CTG GTA ACC CCT CTA CTT TCC		Wild type Reverse	Reaction A
31253		TCT AAT GTC AAT CTT TGG CCT CTA		Mutant Reverse	Reaction A
31250	Hex	TGG ACC AAC CTC GGA TCT AA	Black Hole Quencher 1	WT Probe	
31251	6-FAM	TGT CTG AAT ATG TCT GTT TGC TAC A	Black Hole Quencher 1	MUT Probe	

Reaction A

Reaction Component	Final Concentration	Unit
Kapa Probe Fast QPCR 1		X
ddH2O	up to final volume	

Cycling

Step #	Temp °C	Time	Note
1	95	3min	
2	95	5sec	
3	60	30sec	

31249	.4	uM
31252	.4	uM
31253	.4	uM
Wt Probe	.15	uM
Mutant Probe	.15	uM
DNA	50-200	ng

4	repeat steps 2-3 for 40 cycles	
5	4	Forever

This genotyping protocol is used for the following strains:

Stock Number	Strain Name
<u>030089</u>	C57BL/6NJ- <i>Cdc42bpb^{em1(IMPC)}</i> J/J

[Genotyping resources and troubleshooting](#)

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

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