## KOMP PCR Design

Mouse PCR Protocol (version 1)

Design ID: 189683 Project ID: CSD76550

Selection Cassette: L1L2\_Bact\_P



MMRRC Stock #: 048529-UCD

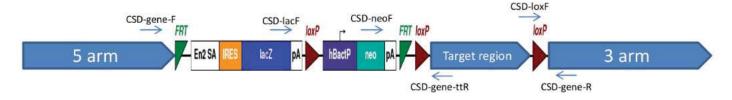
C57BL/6N-Atm1Brd Map3k8tm1a(KOMP)Wtsi/

Mmucd

## Suggested DNA Prep: DNeasy®Tissue Kit

Reagent water (biological grade)	1X (μL) 10.725	Cycling Parameters		
betain 5M (Sigma)	6.5	Temperature °C	$\mathbf{Time}$	
		94	$5 \min$	
DMSO (Sigma)	0.325	94	$15  \mathrm{sec}$	
$10X$ buffer w\o MgCl <sub>2</sub> (AB)	2.5	65	$30  \mathrm{sec}$	10X (decrease 1°C/cycle)
$25 \text{ mM MgCl}_2 \text{ (AB)}$	1.75	72	40 sec	I of a contract of the contrac
10 mM dNTPs (Invitrogen)	0.5	- 1770	700	
primers (20 µM each)	0.5	94	15 sec	rature
Tag 5U/μL (AmpliTag, AB)	0.2	55	$30  \mathrm{sec}$	30X
total cocktail	23	72	40 sec	
		72	$5 \min$	
template	2	4	finished	
reaction volume	25			

## Primer Strategy



Cassette Gene Specific Primers Primers

CSD-lacF: GCTACCATTACCAGTTGGTCTCTC CSD-Map3k8-R: GGCAGATTTCTGATTTCTAGGCCAGC CSD-neoF: GGGATCTCATGCTGGAGTTCTTCG CSD-Map3k8-ttR: TGATACTCTTCATGTCCATGGCTCC CSD-loxF: GAGATGGCGCAACGCAATTAATG CSD-Map3k8-F: AGTTCATGGGGAAATGGCTTTGTGG

Geneotype	Forward Primer	Reverse Primer	Amplicon size (bp)
Floxed	CSD-loxF	CSD-Map3k8-R	399
PreCre	CSD-neoF	CSD-Map3k8-ttR	519
PostCre	CSD-lacF	CSD-Map3k8-R	697
Wildtype	CSD-Map3k8-F	CSD-Map3k8-ttR	478
PostFlp	CSD-Map3k8-F	CSD-Map3k8-ttR	582
PostFlp & Cre	CSD-Map3k8-F	CSD-Map3k8-R	755

Please note, these primers are auto-designed and may not have been verified by the repository, and as such may require optimization or redesign by your facility.

We recommend running primers singleplex. For screening of pups prior to any Flp or Cre recombination, the Floxed or PreCre primers may be used to identify the mutant mice. The Floxed primers test for the distal LoxP site. The PostCre primers should be used if mutant mice were crossed with a Cre recombinase line (without any FLP recombination). The PostFlp primers should be used if mutant mice were crossed with a Flp recombinase line. The PostFlp & Cre primers should be used if mutant mice were crossed with a Flp recombinase line and then a Cre recombinase line. The wildtype primers should be used for zygosity testing of all mutant mice (pre or post recombination).