

## KOMP PCR Design

## Mouse PCR Protocol (version 1)

Design ID: 35369

Project ID: CSD79505

### Selection Cassette: L1L2\_Bact\_P



MMRRC Stock #: 046822-UCD

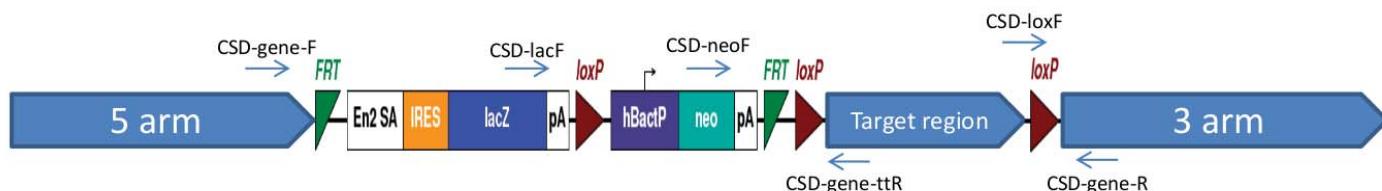
C57BL/6N-Atm1Brd Bpifb1tm1b(KOMP)Wtsi/  
Mmucl

### Suggested DNA Prep: DNeasy® Tissue Kit

Reagent	1X ( μL)
water (biological grade)	10.725
betain 5M (Sigma)	6.5
DMSO (Sigma)	0.325
10X buffer w\o MgCl <sub>2</sub> (AB)	2.5
25 mM MgCl <sub>2</sub> (AB)	1.75
10 mM dNTPs (Invitrogen)	0.5
primers (20 μM each)	0.5
Taq 5U/ μL (AmpliTaq, AB)	0.2
total cocktail	23
template	2
reaction volume	25

Cycling Parameters	
Temperature °C	Time
94	5 min
94	15 sec
65	30 sec
72	40 sec
94	15 sec
55	30 sec
72	40 sec
72	5 min
4	finished

## Primer Strategy



## Cassette Primers

**FRAMES**

CSD-lacF:	GCTTACCAATTACCAAGTTGGTCTGGTGTGTC
CSD-neoF:	GGGATCTCATGCTGGAGTTCTTCG
CSD-loxF:	GAGATGGCGCAACGCAATTAAATG

## Gene Specific Primers

**PRIMER**

CSD-BpfIb1-R:	ATTGAGGAAACTGGGGACAAGGAGG
CSD-BpfIb1-ttr:	TAAGGTCCCTTGGTCAACGGTTGC
CSD-BpfIb1-F:	GAAGAGGGAAAGGTCAAGGAGAAAGGG

<b>Genotype</b>	<b>Forward Primer</b>	<b>Reverse Primer</b>	<b>Amplicon size (bp)</b>
Floxed	CSD-loxF	CSD-Bpifb1-R	343
PreCre	CSD-neoF	CSD-Bpifb1-ttR	646
PostCre	CSD-lacF	CSD-Bpifb1-R	641
Wildtype	CSD-Bpifb1-F	CSD-Bpifb1-ttR	535
PostFlp	CSD-Bpifb1-F	CSD-Bpifb1-ttR	628
PostFlp & Cre	CSD-Bpifb1-F	CSD-Bpifb1-R	618

PostFip & Cre CSD-BpIbI-F CSD-BpIbI-R 618  
Please note, these primers are auto-designed and may not have been verified by the repository, and as such may require optimization or  
sign by your facility.

recommend running primers singleplex. For screening of pups prior to any Flp or Cre recombination, the Floxed or PreCre primers 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).