

# KOMP PCR Design

Mouse PCR Protocol (version 1BW)

Design ID: 86969

Project ID: CSD89262

Selection Cassette: L1L2\_Bact\_P



MMRRC Stock #: 048396-UCD

C57BL/6N-Atm1Brd Lcn2tm1b(KOMP)Wtsi/

JMmucd

## Suggested DNA Prep: DNeasy®Tissue Kit

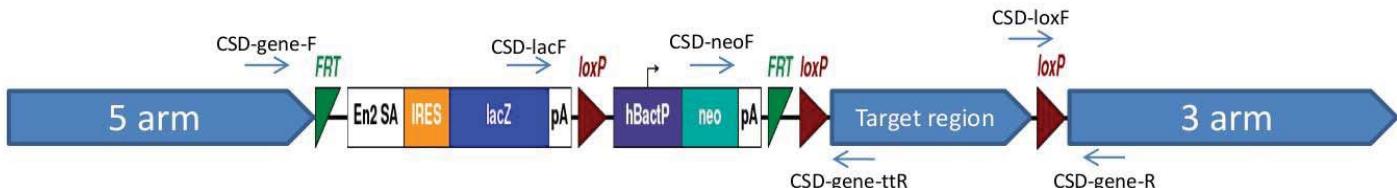
Reagent	1X (µL)
water (biological grade)	10.725
betain 5M (Sigma)	6.5
DMSO (Sigma)	0.325
10X buffer w/o MgCl <sub>2</sub> (AB)	2.5
25 mM MgCl <sub>2</sub> (AB)	1.75
10 mM dNTPs (Invitrogen)	0.5
primers (20 µM each)	0.5
Taq 5U/µL (AmpliTaq, AB)	0.2
total cocktail	23
template	2
reaction volume	25

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

**10X (decrease 1°C/cycle)**

**30X**

## Primer Strategy



## Cassette Primers

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

## Gene Specific Primers

CSD-R: GCAAGAGACCTGAGGGTAGACTGG  
CSD-ttR: TTTCCCTAACGTCCGTTCAATCC  
CSD-F: CTTAATTGGAGCAAGGGAGAGTGG

Geneotype	Forward Primer	Reverse Primer	Amplicon size (bp)
Floxed	CSD-loxF	CSD-R	211
PreCre	CSD-neoF	CSD-ttR	518
PostCre	CSD-lacF	CSD-R	469
Wildtype	CSD-F	CSD-ttR	256
PostFlp	CSD-F	CSD-ttR	396
PostFlp & Cre	CSD-F	CSD-R	436

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).