

# KOMP PCR Design

Mouse PCR Protocol (version 1JE)

Design ID: 39337

Project ID: CSD83272

Selection Cassette L1L2\_Bact\_P



MMRRC Stock #: 048710-UCD

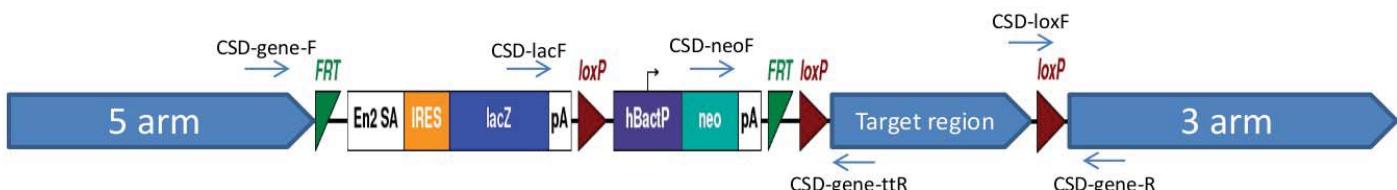
C57BL/6N-Atm1Brd

Myo3btm1b(EUCOMM)Hmgu/JMmucd

## Suggested DNA Prep: DNeasy®Tissue Kit

Reagent	1X (µL)	Cycling Parameters	
		Temperature °C	Time
water (biological grade)	10.725	94	5 min
betain 5M (Sigma)	6.5	94	15 sec
DMSO (Sigma)	0.325	65	30 sec
10X buffer w/o MgCl <sub>2</sub> (AB)	2.5	72	40 sec
25 mM MgCl <sub>2</sub> (AB)	1.75	94	15 sec
10 mM dNTPs (Invitrogen)	0.5	55	30 sec
primers (20 µM each)	0.5	72	40 sec
Taq 5U/µL (AmpliTaq, AB)	0.2	72	5 min
total cocktail	23	4	finished
template	2		
reaction volume	25		

## Primer Strategy



## Cassette Primers

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

## Gene Specific Primers

CSD-R: CCAAACCTTTCTATTGCAGCAAGC  
CSD-ttR: GAAAATGCATCAATGAGTGAGTGTGC  
CSD-F: CTTTATATTCAAATTCCATTACACCG

Geneotype	Forward Primer	Reverse Primer	Amplicon size (bp)
Floxed	CSD-loxF	CSD-R	256
PreCre	CSD-neoF	CSD-ttR	688
PostCre	CSD-lacF	CSD-R	554
Wildtype	CSD-F	CSD-ttR	472
PostFlp	CSD-F	CSD-ttR	589
PostFlp & Cre	CSD-F	CSD-R	504

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).