

# KOMP PCR Design

Mouse PCR Protocol (version 1JE)

Design ID: 221030

Project ID: CSD35445

Selection Cassette: L1L2\_Bact\_P



Mutant Mouse Resource & Research Centers supported by NIH

MMRRC Stock #: 048071-UCD

C57BL/6N-Atm1Brd Hivep1tm1.1(KOMP)Mbp/

Mmucd

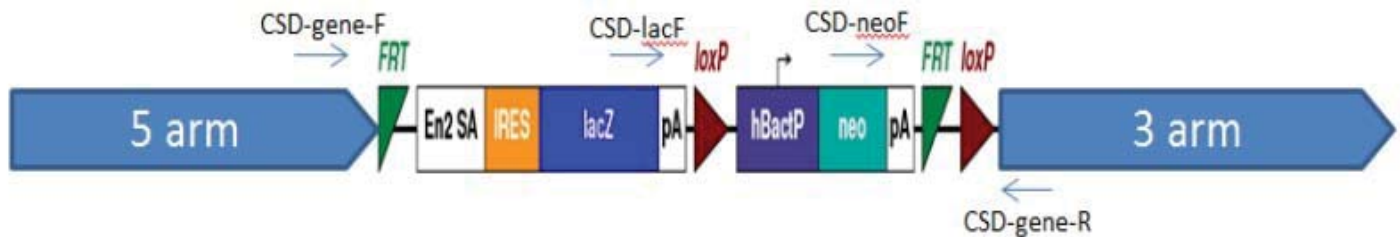
## Suggested DNA Prep: DNeasy®Tissue Kit

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 (AmpliAq, AB)	0.2
total cocktail	23
template	2
reaction volume	25

## Cycling Parameters

Temperature °C	Time	
94	5 min	
94	15 sec	<b>10X (decrease 1°C/cycle)</b>
65	30 sec	
72	40 sec	
94	15 sec	
55	30 sec	<b>30X</b>
72	40 sec	
72	5 min	
4	finished	

## Primer Strategy



## Cassette Primers

CSD-lacF: GCTACCATTACCAGTTGGTCTGGTGTGTC  
CSD-neoF: GGGATCTCATGCTGGAGTTCTTCG

## Gene Specific Primers

CSD-R: AGCACGAACAACTAACAATCAGTGC  
CSD-F: GACCTGGGTTCTCCAGACAGG  
CSD-wtR: GCAACAATCTTTTTCGTTTCACACC

## Genotype Forward Primer Reverse Primer Amplicon size (bp)

PreCre	CSD-neoF	CSD-R	651
PostCre	CSD-lacF	CSD-R	602
Wildtype	CSD-F	CSD-wtR	296
PostFlp	CSD-F	CSD-R	598

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 PreCre primers may be used to identify the mutant mice. The PostCre primers should be used if mutant mice were crossed with a Cre recombinase line. The PostFlp primers should be used if mutant mice were crossed with a Flp recombinase line. The wildtype primers should be used for zygosity testing of all mutant mice (pre or post recombination).