

# KOMP PCR Design

Mouse PCR Protocol (version v1PK)

Design ID: 47356

Project ID: CSD28648

Selection Cassette: L1L2\_gt1



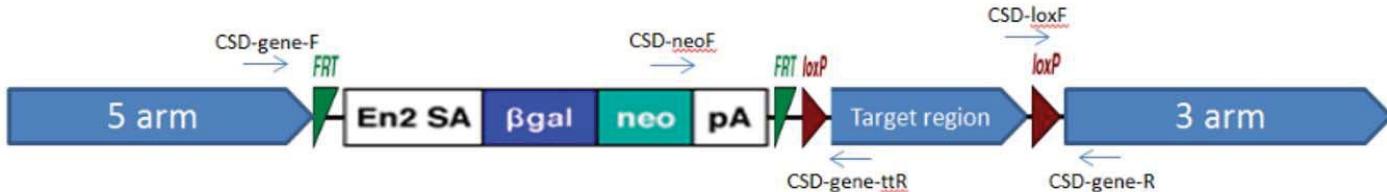
MMRRC Stock #: 048356-UCD

C57BL/6N-Kmt5btm1a(KOMP)Wtsi/Mmucd

## Suggested DNA Prep: DNeasy®Tissue Kit

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

## Primer Strategy



### Cassette Primers

CSD-neoF: GGGATCTCATGCTGGAGTTCTTCG  
CSD-loxF: GAGATGGCGAACGCAATTAAATG

### Gene Specific Primers

CSD-R: GAGACCTCAGACCTGAGTCTAAGAACCC  
CSD-ttR: CATTCCATAGACAGCGAACAGCAC  
CSD-F: agcttcacagcactgtggaagc

Genotype	Forward Primer	Reverse Primer	Amplicon size (bp)
Floxed	CSD-loxF	CSD-R	313
PreCre	CSD-neoF	CSD-ttR	608
PostCre	CSD-neoF	CSD-R	660
Wildtype	CSD-F	CSD-ttR	404
PostFlp	CSD-F	CSD-ttR	556
PostFlp & Cre	CSD-F	CSD-R	608

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).