

# KOMP PCR Design

Mouse PCR Protocol (version v1JE)

Design ID: 42247

Project ID: CSD26255

Selection Cassette: L1L2\_gt2

MMRRC Stock #: 046673-UCD

C57BL/6N-Arid3atm1a(KOMP)Wtsi/JMmucd

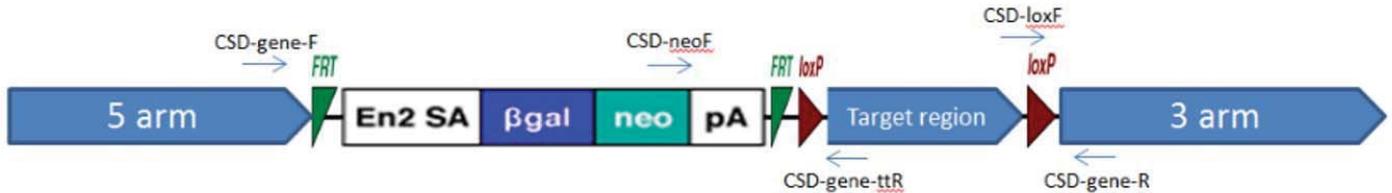
## Suggested DNA Prep: DNeasy®Tissue Kit

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

## Primer Strategy



### Cassette Primers

CSD-neoF: GGGATCTCATGCTGGAGTTCTTCG  
CSD-loxF: GAGATGGCGCAACGCAATTAATG

### Gene Specific Primers

CSD-R: CTGTGGATAGCTCAGGAGCTTCC  
CSD-ttR: CCTGTGTGGAGTGACTGAGTGACC  
CSD-F: GCCTGTTGGAAGGATGATCTGG

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

Floxed	CSD-loxF	CSD-R	258
PreCre	CSD-neoF	CSD-ttR	567
PostCre	CSD-neoF	CSD-R	605
Wildtype	CSD-F	CSD-ttR	337
PostFlp	CSD-F	CSD-ttR	453
PostFlp & Cre	CSD-F	CSD-R	491

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).