

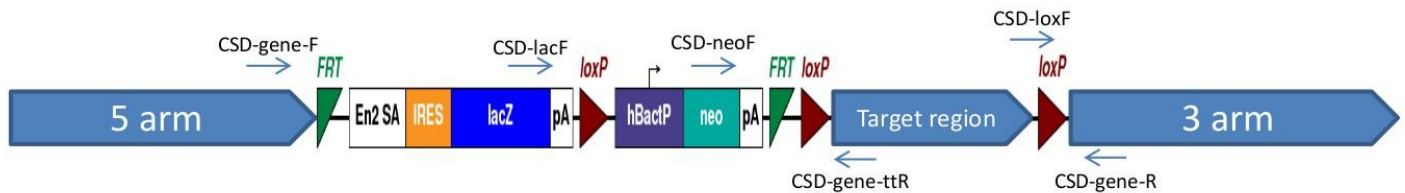
KOMP PCR Design

Mouse PCR Protocol (version 1)
Strain ID: Anks1b^{tm1a(KOMP)Wtsi}
Design ID: 82594
Project ID: CSD26046
Selection Cassette: L1L2_Bact_P

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 (decrease 1°C/cycle)
10X buffer w/o MgCl ₂ (AB)	2.5	65	30 sec	
25 mM MgCl ₂ (AB)	1.75	72	40 sec	
10 mM dNTPs (Invitrogen)	0.5	94	15 sec	30X
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-lacF: GCTACCATTACCAGTTGGTCTGGTGTC
CSD-neoF: GGGATCTCATGCTGGAGTTCTTCG
CSD-loxF: GAGATGGCGCAACGCAATTAATG

Gene Specific Primers

CSD-Anks1b-R: CGGAGACAACATACGATTGGATGCC
CSD-Anks1b-ttR: AGGGATGTCGGTTGATTTACCAGGG
CSD-Anks1b-F: GTGAGTCACGTCAAAGCCAAGAACC

Genotype	Forward Primer	Reverse Primer	Amplicon size (bp)
Floxed	CSD-loxF	CSD-Anks1b-R	305
PreCre	CSD-neoF	CSD-Anks1b-ttR	508
PostCre	CSD-lacF	CSD-Anks1b-R	603
Wildtype	CSD-Anks1b-F	CSD-Anks1b-ttR	527
PostFlp	CSD-Anks1b-F	CSD-Anks1b-ttR	668
PostFlp & Cre	CSD-Anks1b-F	CSD-Anks1b-R	758

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).