

KOMP PCR Design

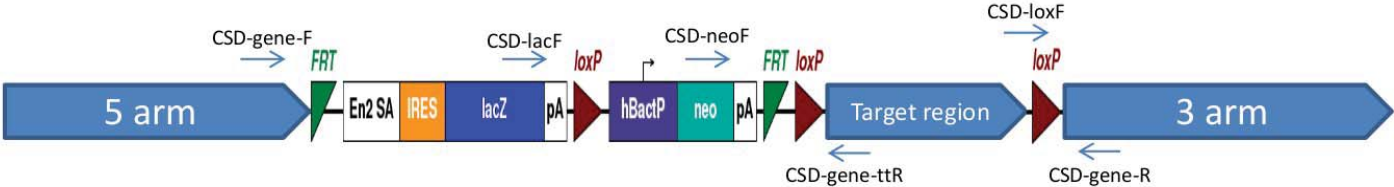
Mouse PCR Protocol (version 1JE)

Design ID: 45874
Project ID: CSD84610
Selection Cassette: L1L2_Bact_P

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 ₂ (AB)	2.5
25 mM MgCl ₂ (AB)	1.75
10 mM dNTPs (Invitrogen)	0.5
primers (20 μM each)	0.5
Taq 5U/μL (AmpliTa, AB)	0.2
total cocktail	23
template	2
reaction volume	25

Primer Strategy



Cassette Primers

CSD-lacF: GCTACCATTACCAAGTTGGTCTGGTGTC
CSD-neoF: GGGATCTCATGCTGGAGTTCTTCG
CSD-loxF: GAGATGGCGCAACGCAATTAATG

Gene Specific Primers

CSD-R: CACATCTTCGCTCTGAGTACTTCTCC
CSD-ttR: AGTTGGGGTTTCAGCATGTCTACG
CSD-F: TACCTTCCACACTGTCCTCTGTATTGC

Genotype	Forward Primer	Reverse Primer	Amplicon size (bp)
Floxed	CSD-loxF	CSD-R	245
PreCre	CSD-neoF	CSD-ttR	567
PostCre	CSD-lacF	CSD-R	543
Wildtype	CSD-F	CSD-ttR	294
PostFlp	CSD-F	CSD-ttR	502
PostFlp & Cre	CSD-F	CSD-R	527

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).