

KOMP PCR Design

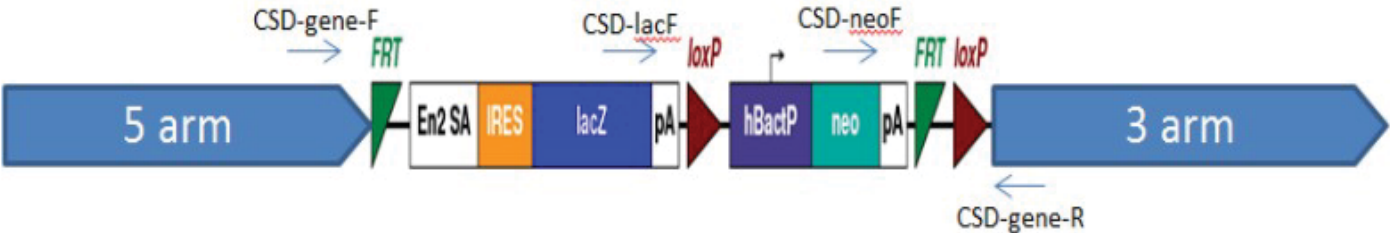
Mouse PCR Protocol (version 2BW)

Design ID: 237996
Project ID: CSD67663
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	
primers (20 μM each)	0.5	55	30 sec	30X
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

Gene Specific Primers

CSD-R: GTTAAAAGCTGGCCCACTCTTATTACC
CSD-F: GGAGATATCTTGTGATTTGCACCTTC
CSD-wtR TGTGAGCATAAAAACAGCATACCC

Genotype	Forward Primer	Reverse Primer	Amplicon size (bp)
PreCre	CSD-neoF	CSD-R	525
PostCre	CSD-lacF	CSD-R	476
Wildtype	CSD-F	CSD-wtR	216
PostFlp	CSD-F	CSD-R	432

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).