

KOMP PCR Design

Mouse PCR Protocol (version 2JE)

Design ID: 35262

Project ID: CSD34496

Selection Cassette: L1L2_gt0



Mutant Mouse Resource & Research Centers supported by NIH

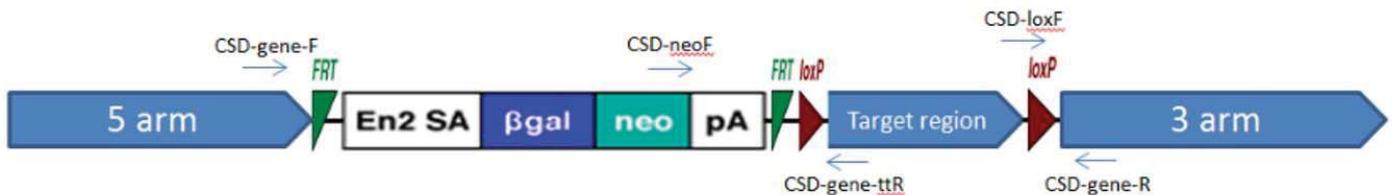
MMRRC Stock #: 049801-UCD

C57BL/6N-Snx5tm1a(KOMP)Wtsi/Mmucd

Suggested ^{35262_KO_PI} DNA Prep: DNeasy® Tissue Kit Parameters

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

Primer Strategy



Cassette Primers

CSD-neoF: GGGATCTCATGCTGGAGTTCTTCG
 CSD-loxF: GAGATGGCGCAACGCAATTAATG

Gene Specific Primers

CSD-Snx5-R: GACATGAGCACACTGTTAGTGCAGG
 CSD-Snx5-ttR: CTAAGACAATAAAACCCACCGGGCG
 CSD-Snx5-F: GCTTTGCCTCTGATTTGGATCTCC

Genotype	Forward Primer	Reverse Primer	Amplicon size (bp)
Floxed	CSD-loxF	CSD-Snx5-R	386
PreCre	CSD-neoF	CSD-Snx5-ttR	641
PostCre	CSD-neoF	CSD-Snx5-R	733
Wildtype	CSD-Snx5-F	CSD-Snx5-ttR	405
PostFlp	CSD-Snx5-F	CSD-Snx5-ttR	556
PostFlp & Cre	CSD-Snx5-F	CSD-Snx5-R	648

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).