

# KOMP PCR Design

Mouse PCR Protocol (version 1JE)

Design ID: 10772

Project ID: VG10772

Selection Cassette: ZEN-Ub1



MMRRC Stock #: 049952-UCD

C57BL/6N-Syndig1Itm1.1(KOMP)Vlcg/  
MbpMmucd

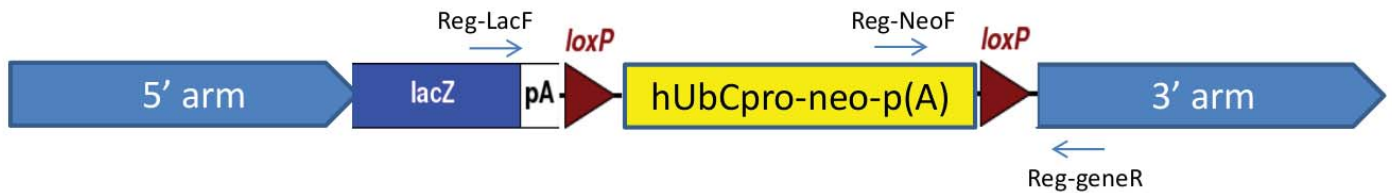
## Suggested DNA Prep: DNeasy®Tissue Kit

Reagent	1X (µL)	Cycling Parameters	
water (biological grade)	10.725	<b>Temperature °C</b>	<b>Time</b>
betain 5M (Sigma)	6.5	94	5 min
DMSO (Sigma)	0.325	94	15 sec
10X buffer w/o MgCl <sub>2</sub> (AB)	2.5	65	30 sec
25 mM MgCl <sub>2</sub> (AB)	1.75	72	40 sec
10 mM dNTPs (Invitrogen)	0.5	94	15 sec
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		

**10X (decrease 1°C/cycle)**

**30X**

## Primer Strategy



## Cassette Primers

Reg-NeoF: GCAGCCTCTGTTCCACATACACTTCA  
Reg-LacF: ACTTGCTTTAAAAACCTCCCACA

## Gene Specific Primers

Reg-R: CAAGTAGAGACTGAGTTGCCTATGGG  
Reg-wtF: GACAAGGTCAAAGAGCCCAAAGC

Reg-wtR: AGTACTGCGATTAAGGCCATGCC

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

Genotype	Forward Primer	Reverse Primer	Amplicon size (bp)
PreCre	Reg-NeoF	Reg-R	427
PostCre	Reg-LacF	Reg-R	627
Wildtype	Reg-wtF	Reg-wtR	254

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 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 wildtype primers should be used for zygosity testing of all mutant mice (pre or post