

KOMP PCR Design

Mouse PCR Protocol (version 1JE)

Design ID: 10252

Project ID: VG10252

Selection Cassette: ZEN-Ub1



MMRRC Stock #: 046798-UCD

C57BL/6N-Bhlha9tm1.1(KOMP)Vlcr/Mmucd

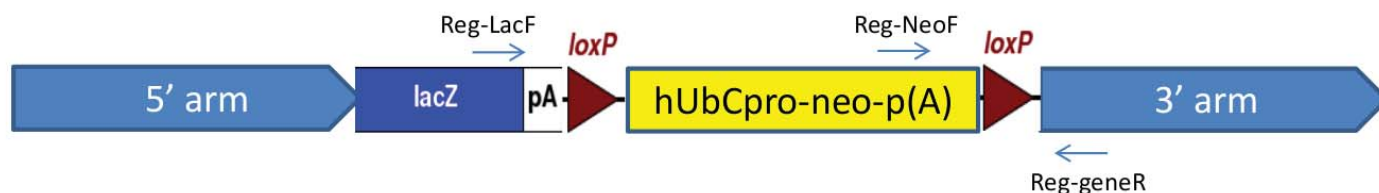
Suggested DNA Prep: DNeasy®Tissue Kit

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 (AmpliTaq, AB)	0.2
total cocktail	23
template	2
reaction volume	25

Cycling Parameters

Temperature °C	Time	
94	5 min	
94	15 sec	10X (decrease 1°C/cycle)
65	30 sec	
72	40 sec	
94	15 sec	30X
55	30 sec	
72	40 sec	
72	5 min	
4	finished	

Primer Strategy



Cassette Primers

Reg-NeoF: GCAGCCTCTGTTCCACATACACTTCA
Reg-LacF: ACTTGCTTTAAAAACCTCCCACA

Gene Specific Primers

Reg-R: CAGTTCAGCAGCAGCCCAAACC
Reg-wtF: GGCAAGAGGCTCTCCAAGATCG

Reg-wtR: CAGGACATTGACGCCAGTTTCC

Geneotype Forward Primer Reverse Primer Amplicon size (bp)

PreCre	Reg-NeoF	Reg-R	489
PostCre	Reg-LacF	Reg-R	689
Wildtype	Reg-wtF	Reg-wtR	352

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 recombination).