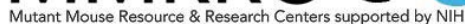


Mouse PCR Protocol (version 1)

Selection Cassette: L1L2_Bact_P



C57BL/6N-Eif4e3tm1a(KOMP)Wtsi/Mmucd

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	

Schematic diagram of the CSD gene targeting strategy. The construct consists of a 5' arm, a targeting cassette, a target region, and a 3' arm. The targeting cassette includes a *lacZ* gene flanked by *FRT* sites and a *neo* gene flanked by *loxP* sites. The *lacZ* gene is used for initial identification, and the *neo* gene is removed. The target region is the CSD gene. The 3' arm contains a *neo* gene flanked by *loxP* sites, which is removed. The final construct contains the 5' arm, the *lacZ* gene, the target region, and the 3' arm.

CSD-Eif4e3-R:	GAAAGAGGAAGGAAGGGAAGGAGGG
CSD-Eif4e3-ttR:	TCCTAAGGGCATGTATTGCTTCTCC
CSD-Eif4e3-F:	CCTATAGATCCACACAGCCCCATCC

Genotype	Forward Primer	Reverse Primer	Amplicon size (bp)
Floxed	CSD-loxF	CSD-Eif4e3-R	369
PreCre	CSD-neoF	CSD-Eif4e3-ttR	649
PostCre	CSD-lacF	CSD-Eif4e3-R	667
Wildtype	CSD-Eif4e3-F	CSD-Eif4e3-ttR	550
PostFlp	CSD-Eif4e3-F	CSD-Eif4e3-ttR	666
PostFlp & Cre	CSD-Eif4e3-F	CSD-Eif4e3-R	679

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).