Design ID: 41066
Project ID: CSD24282
Selection Cassette: L1L2_gt2

MMRRC Stock \#: 047771-UCD<br>C57BL/6N-Fundc1tm1a(KOMP)Wtsi/Mmucd

## Suggested DNA Prep: DNeasy®Tissue Kit

| Reagent | $\mathbf{1 X}(\mu \mathrm{L})$ |
| :--- | ---: |
| water (biological grade) | 10.725 |
| betain 5 M (Sigma) | 6.5 |
| DMSO (Sigma) | 0.325 |
| $10 \times$ buffer wlo $\mathrm{MgCl}_{2}$ (AB) | 2.5 |
| $25 \mathrm{mM} \mathrm{MgCl} \mathrm{M}_{2}$ (AB) | 1.75 |
| 10 mM dNTPs (Invitrogen) | 0.5 |
| primers ( $20 \mu \mathrm{M}$ each) | 0.5 |
| Taq $5 \mathrm{U} / \mu \mathrm{L}$ (AmpliTaq, AB) | 0.2 |
| total cocktail | 23 |
| template | 2 |
| reaction volume | 25 |

## Primer Strategy



Cassette<br>Primers<br>CSD-neoF: GGGATCTCATGCTGGAGTTCTTCG<br>CSD-loxF: GAGATGGCGCAACGCAATTAATG

## Gene Specific

Primers
CSD-Fundc1-R: TATATATCTGGCAGGCCAAGGCTGG CSD-Fundc1-ttR: TTGAAAACAATCAGGAGTACGTGGG CSD-Fundc1-F2: TATGGGCAGTGTAATCATCTAAGTGG

| Geneotype | Forward Primer | Reverse Primer | Amplicon size (bp) |
| :--- | :--- | :--- | :---: |
| Floxed | CSD-loxF | CSD-Fundc1-R | 381 |
| PreCre | CSD-neoF | CSD-Fundc1-ttR | 574 |
| PostCre | CSD-neoF | CSD-Fundc1-R | 728 |
| Wildtype | CSD-Fundc1-F2 | CSD-Fundc1-ttR | 258 |
| PostFIp | CSD-Fundc1-F2 | CSD-Fundc1-ttR | 410 |
| PostFlp \& Cre | CSD-Fundc1-F2 | CSD-Fundc1-R | 564 |

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).

