Strain: VH7194

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| Genotype: | rnst-2(hd7194[LoxP + myo-2p::GFP::unc-54 3' UTR + rps-27p::neoR::unc-54 3' UTR + LoxP]) V. |
| Type: | Homozygous |
| QC Results: | PPPP |
| Deletion: | 4597 bp |
| Flanks: | AGCACCTGTCACTTGACACTCCTTTGTCCA - [deletion] - TTTAAGCCTCAAAATTGTCATGCTAAAAAA |
| DNA Files: | rnst-2\_Deletion.ape, rnst-2\_Wildtype.ape |

**Primer location and sequences**

Primer 1-4 coordinates are from the Deletion ApE file. Primer 5 coordinates are from the Wildtype ApE file.

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| --- | --- | --- | --- |
| **No** | **Position** | **Name** | **Sequence (5’ to 3’)** |
| 1 | 251-272 | rnst-2 SV F | GTAAGCTGACATGCCTTATGCC |
| 2 | 1683-1706 | pMYO-2 SEC Insertion Primer 2 | CAGAACAATGAGTACAGTGTGTGC |
| 3 | 5218-5239 | NeoR SEC Insertion Primer 2 | ATCTCCTGTCATCTCACCTTGC |
| 4 | 7675-7696 | rnst-2 SV R | AGAGAAGGAGGTCAAAGTTCCG |
| 5 | 5532-5552 | rnst-2 WT F | CGACTCTATCGATGTGGCTGG |

**PCR products**

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| --- | --- | --- | --- |
| **Product (see figure)** | **Primer** | **Product Size** | **QC Result** |
| {US} - Upstream insertion site | 1+2 | 1456 bp | Pass (Band present) |
| {DS} - Downstream insertion site | 3+4 | 2479 bp | Pass (Band present) |
| {WoM} – WT PCR on mutant | 5+4 | no product, if WT sequence is deleted | Pass (Band absent) |
| {WoM} – WT PCR on wildtype | 5+4 | 1345 bp | Pass (Band present) |

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| **PCR Program:**  (1) 94˚C - 30 sec  (2) 94˚C - 30 sec  (3) 60˚C - 30 sec  (4) 72˚C – 2.5 min  (5) To step (2) x 34 times  (6) 72˚C - 5 min  (7) 4˚C - hold | A diagram of a new product  Description automatically generated with medium confidence |