Strain: VH7207

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| --- | --- |
| Genotype: | F43C9.2(hd7207[LoxP + myo-2p::GFP::unc-54 3' UTR + rps-27p::neoR::unc-54 3' UTR + LoxP]) X. |
| Type: | Homozygous |
| QC Results: | PPPP |
| Deletion: | 6980 bp |
| Flanks: | TTTGTTTTGCAACATACCGAAACTAGAGTA - [deletion] - ACCACGTTTTCACTCAAAGCCCACCCTCCT |
| DNA Files: | F43C9.2\_Deletion.ape, F43C9.2\_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 | 917-938 | F43C9.2-1 SV F | TCCACTGGACATTTAATCGCGG |
| 2 | 2420-2443 | pMYO-2 SEC Insertion Primer 2 | CAGAACAATGAGTACAGTGTGTGC |
| 3 | 5955-5976 | NeoR SEC Insertion Primer 2 | ATCTCCTGTCATCTCACCTTGC |
| 4 | 8358-8377 | F43C9.2-1 SV R | AATTGCGCGACCGAAATAGC |
| 5 | 3832-3853 | F43C9.2 WT R | GCAAATAATAGGCAACTGGGGC |

**PCR products**

|  |  |  |  |
| --- | --- | --- | --- |
| **Product (see figure)** | **Primer** | **Product Size** | **QC Result** |
| {US} - Upstream insertion site | 1+2 | 1527 bp | Pass (Band present) |
| {DS} - Downstream insertion site | 3+4 | 2423 bp | Pass (Band present) |
| {WoM} – WT PCR on mutant | 1+5 | no product, if WT sequence is deleted | Pass (Band absent) |
| {WoM} – WT PCR on wildtype | 1+5 | 2937 bp | Pass (Band present) |

|  |  |
| --- | --- |
| **PCR Program:**  (1) 94˚C - 30 sec  (2) 94˚C - 30 sec  (3) 65˚C - 30 sec  (4) 72˚C – 4.0 min  (5) To step (2) x 34 times  (6) 72˚C - 5 min  (7) 4˚C - hold | A diagram of a gene deletion  AI-generated content may be incorrect. |