**Table S4.** Oligonucleotide sequences for repair plasmids

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| **Primers** | **Sequence (5′ to 3′)** |
| 4.6 kbDeletion Fragment 1 | Forward | GTTGTAAAACGACGGCCAGTGGACTGCCTAAACAGCAACGGTTAGTATTACCAC |
| Reverse | GCTATGACCATGATTACGCCATCAATCTCATGGCACCATTGTCCAGTCATTGG |
| *CSP1\_029* deletionFragment 1 | Forward | GCTATGACCATGATTACGCCTGTCTGTAACCTTTTGCTGC |
| Reverse | CCTTAAAGGGGTATATTAGCGCCAACTCCGGAATCACCGG |
| *CSP1\_029* deletionFragment 1 | Forward | CCGGTGATTCCGGAGTTGGCGCTAATATACCCCTTTAAGG |
| Reverse | GTTGTAAAACGACGGCCAGTAAAAGAACGCACGTTGGCTG |
| Gibson assembly(Vector Fragment 1) | Forward | TACAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTT |
| Reverse | GGCGTAATCATGGTCATAGCTGTTTCCTGT |
| Gibson assembly(Vector Fragment 2) | Forward | ACTGGCCGTCGTTTTACAACGTCGTGACTG |
| Reverse | AAGCCATACCAAACGACGAGCGTGACACCACGATGCCTGTA |