**S3 Table.**

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| **Target** | **Name** | **Type/**  **Orientation** | **Sequence** |
| 5' junction - pFRT and genomic | 198S-Q10 | Taqman probe | 5'-FAM-ATCCATAACGTGCGCCCA-MGB |
| 268S | Forward | 5'-CCCCAGCATGCATTACCC |
| 201A | Reverse | 5'- TCGGTTAGGTTGGCTGTTTTCT |
| 3' junction - pFRT and genomic | 189S-Q1 | Taqman probe | 5'-FAM-CTACTTCACCATATCATTTT-MGB |
| 197S | Forward | 5'-AAGAGGGTGGTGCAAACCAG |
| 269A | Reverse | 5'-ACGTAGATAAGTAGCATGGCGGGT |
| *hygR*- pFRT and genomic | 273A | Taqman probe | 5'-FAM-AAGACCTGCCTGAAACCGAACTGCC-BkFQ |
| 271A | Forward | 5'-CGAGAGCCTGACCTATTGCAT |
| 272S | Reverse | 5-CGACCGGCTGCAGAACA |
| 5' junction - pBRRQ | 198S-Q10 | Taqman probe | 5'-FAM-ATCCATAACGTGCGCCCA-MGB |
| 200S | Forward | 5'-CCGCTCTAGAACTAGTGGATCCA |
| 201A | Reverse | 5'-TCGGTTAGGTTGGCTGTTTTCT |
| 3' junction - pBRRQ | 189S-Q1 | Taqman probe | 5'-FAM-CTACTTCACCATATCATTTT-MGB |
| 197S | Forward | 5'-AAGAGGGTGGTGCAAACCAG |
| 269A | Reverse | 5'-ACGTAGATAAGTAGCATGGCGGGT |
| *tetR*- pBRRQ | 338P | Taqman probe | 5'-FAM-TCGGCACCGTCACCCTGGATG-BkFQ |
| 336S | Forward | 5'-ACAATGCGCTCATCGTCATC |
| 337A | Reverse | 5'-CCGGCATAACCAAGCCTATG |