**Supplementary Table 3:** Primer and probe sequences used in this study.

|  |  |  |
| --- | --- | --- |
| Primer Name | Primer Sequence | Tag Sequence |
| **4C primers (Outside and Nested)** |
| WTyDP84outsideF | CGTTGTAACCGAGAGGATGG  | - |
| WTyDP84outsideR  | GGCGCCTGATTCAAGAAATA | - |
| WTyDP84NestedF | GTCGATAATGGACTTTGCAC | TCTCTG |
| WTyDP84NestedR  | TCAGGCAAGAAAGGGAACCG | TCTCTG |
| WTyDP77outsideF | AAGTTTTCAATTATCCAGCTACTGC | - |
| WTyDP77outsideR | GGCCAACCCTCCGTATAAA | - |
| WTyDP77NestedF  | ACGCAATATCATAAAAGCAC | AGAGAC |
| WTyDP77NestedR | TTTCTTTAGTAGCTCCTCCG | AGAGAC |
| F1MUTyDP84outsideF | GTTGGTTTAAGGCGCAAGAC | - |
| F1MUTyDP84outsideR  | GCAGGCCCACCTTTATTTCT | - |
| F1MUTyDP84nestedF  | GATCGGGCGTTCGACTCGC | TGATGC  |
| F1MUTyDP84nestedR | CAGGCAAGAAAGGGAACCG | TGATGC  |
| F2MUTyDP84outsideF | GCCGTTAAATCCAATCATCC | - |
| F2MUTyDP84outsideR | GGCGCTCCACCTTTATTGTA | - |
| F2MUTyDP84nestedF  | GTCGATAATGGACTTTGCAC | AGCACG  |
| F2MUTyDP84nestedR | CGAACAAAAAAATCTCCCG | AGCACG  |
| F1MUTyDP77outsideF | AGTTGGTTTAAGGCGCAAGA | - |
| F1MUTyDP77outsideR | TTGCAGCACTCTTTCTTTAGTAGC | - |
| F1MUTyDP77nestedF | AGATCGGGCGTTCGACTCG | ACAGAG  |
| F1MUTyDP77nestedR  | TTTCTTTAGTAGCTCCTCCG | ACAGAG  |
| F2MUTyDP77outsideF  | GCGGCACTTCGTAAGTTTTC | - |
| F2MUTyDP77outsideR | CCCCCTAATTCCCTTCTTTT | - |
| F2MUTyDP77nestedF | TGATACGCAATATCATAAAAGCAC |  TAGATC  |
| F2MUTyDP77nestedR | GTATATTAACAAAAAAATCTCCCG |  TAGATC  |
| **Positive Control and qPCR Standards**  |
| RPA135+veFrag1\_F | CTGCAGAAGAAACACCATC |  |
| RPA135+veFrag1\_R | CCGGATGGAGGTTTGTTAAA |  |
| RPA135+veFrag2\_F | CCACCACACTACAACCACCA |  |
| RPA135+veFrag2\_R | GAGGAAATGGTTTGAACTGCAT |  |
| rDNA+veHindIII\_F | ACTCATGTTTGCCGCTCTG |  |
| rDNA+veHindIII\_R | CGATGAGGATGATAGTGTGTAAGA |  |
| **qPCR Primers and Probes** |
| RT-RPA135Frag1\_R | CCACTCAATTCTGAAGACGAAA |  |
| rDNAHindIIIF | GCTCCATGAAGCAAACTGTCC |  |
| RPA135HindIIIFrag2RorF | TTCTTGTCCATTATTGCCATTT |  |
| rDNAHindIIIProbe  | CAAATCCTTTCACGCTCGGGAAGC |  |
| rDNA(25S)Fwd  | GGACATCTGCGTTATCGTTTAACAG  |  |
| rDNA(25S)Probe  | ATGTGCCGCCCCAGCCAAACT  |  |
| SUP4 Frag\_Rev  | CTTGAGATCGGGCGTTCG  |  |
| **GCC External Ligation Control** |
| E.coli211bp3’*MspI*F  | GCCAGAAATTCGTCGGTAAG |  |
| E.coli211bp3’*MspI*R | AACCGGTCATTGAAGTATTGA |  |
| Lambda185bp3‟*MspI*F | TTTACAGCGTGATGGAGCAG |  |
| Lambda185bp3‟*MspI*R | ACCAATCCAGCCGGTCAG |  |

Primers were designed using Primer3 [[11](#_ENREF_11)]. qPCR primers and probes were designed on the RealTimeDesign software from BioSearch Technologies.