**Additional file 4: oligonucleotides**

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| Oligonucleotides | Sequence (5’ to 3’) | Source |
| psk-5-TLP12-F | AGGTCGACGGTATCGATAAGCTTGATATCGTGACTCTGAAGGAAGAATTATTT | This Study |
| kan-5-TLP12-R | TCTCGTTTTCATACCTCGGTATAATCTTACACAACTGATACGGTTTGAACTGA | This Study |
| kan-3-TLP12-F | TACTGGATGAATTGTTTTAGTACCTAGATTAGGTGGTAATTTAACAGCAAGAA | This Study |
| psk-3-TLP12-R | GCGGTGGCGGCCGCTCTAGAACTAGTGGATAGCTAAAAGATTGATTTGATCTGCA | This Study |
| Kan 1 (For) | GTAAGATTATACCGAGGTATGAAAACG | (Tareen, et al., 2010) |
| Kan 2 (Rev) | AATCTAGGTACTAAAACAATTCATCCA | (Tareen, et al., 2010) |
| TLP12\_check primer\_F | TGTCAAATGGAACAATTTTAGATAAAA | This Study |
| TLP12\_check primer\_R | GCAATTTCAACATTATCTTTAGTAGTT | This Study |
| 71-co-Kan-R | TGGTAGCTTTTTAAATATGGCGC | This Study |
| 72-co-Kan-F | TCAAGCCTGATTGGGAGAAAATA | This Study |
| TLP12 Complement Primer\_Fw | GAATTCTGCAGGTACCCGGGATCCACTAGTTCTAGAAGGAGATTTAAATGCAAAAAATGAATTCAG | This Study |
| TLP12 Complement Primer\_Rev | GAGACTTATTACTTTGTACTCTAGGGCCGCTCTAGATTAAAACCTTTTCTTCTTAACATCTTC | This Study |
| pRRC-CAT1 | GTGCATCATGCCGTTTGTGAC | (Karlyshev & Wren, 2005) |
| ak231 | CTGGAACTCAACTGACGCTAAG | (Karlyshev & Wren, 2005) |
| ak232 | CTCTTGCACATTGCAGTCCTAC | (Karlyshev & Wren, 2005) |
| ak233 | GCAAGAGTTTTGCTTATGTTAGCAC | (Karlyshev & Wren, 2005) |
| ak234 | GAAATGGGCAGAGTGTATTCTCCG | (Karlyshev & Wren, 2005) |
| ak235 | GTGCGGATAATGTTGTTTCTG | (Karlyshev & Wren, 2005) |
| ak237 | TCCTGAACTCTTCATGTCGATTG | (Karlyshev & Wren, 2005) |