

**S1 Table. Oligonucleotide primers used in this study**

Primer Name	Primer Sequence 5'- 3'	Nucleotide Position <sup>1</sup>	Note
CTLV-Outer-1	CTGAGACCAATCACTCTATCTCTG	469-493	5' Outer CTLV gene specific primer, for CTLV isolates TL100, TL101, TL102, TL103, TL110, and TL111
CTLV-Outer-2	CTAAGACCAATCACTCTACTTCTA	469-493	5' Outer CTLV gene specific primer, for CTLV isolates TL115 and IPPN122
CTLV-Outer-3	CTAAGACCAATCACTCTATCTCTA	469-493	5' Outer CTLV gene specific primer, for CTLV isolates TL104
CTLV-Outer-4	CAAGCCAATCACTCTGTCTCTG	469-493	5' Outer CTLV gene specific primer, for CTLV isolates TL112, TL113, and TL114
CTLV-Inner-1	GGATGGGAATGTGACTTGAATC	222-244	5' Inner CTLV gene specific primer, for CTLV isolates IPPN122, TL100, TL101, TL102, TL103, TL110, and TL115
CTLV-Inner-2	GGATGGGAGTGTGACTTAAATC	222-244	5' Inner CTLV gene specific primer, for CTLV isolates TL104 and TL115
CTLV-Inner-3	GGATGAGAATGTGATTTAAATCCAATTGG	222-244	5' Inner CTLV gene specific primer, for CTLV isolates TL112, TL113, and TL114
CTLV-CP-Seq-5589-F	GRAAAGAGAGGRTTTAGGTCCTCTCRGC	5589-5617	3' RACE CTLV gene specific primer

<sup>1</sup>Nucleotide Position is base on reference genome of citrus tatter leaf virus isolate TL100 (NCBI GenBank Accession No. MH108975).