**Supplementary Table S1.** Primers used for YoMV CP gene cloning and virus detection by RT-PCR

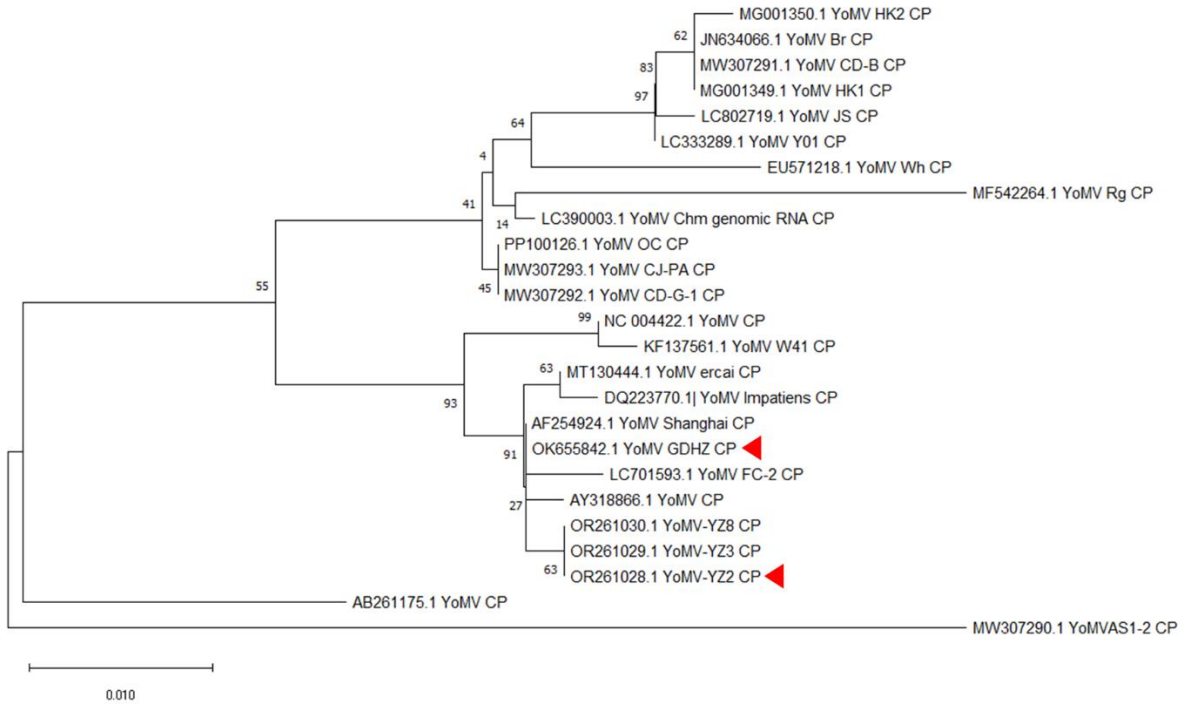
| Primer | Primer sequences (5'-3')[a] | Position (bp)[b] | Purpose | Length |
|---|---|---|---|---|
| *CP*$^{YoMV}$-F-*Eco*R I | CCGGAATTCATGGTTTACAACATCACGAGCTC | 5595-5617 | Amplify putative *CP* gene of YoMV carrying the double cloning enzyme sites | 489 bp |
| *CP*$^{YoMV}$-R-*Xho* I | CCGCTCGAGTGTAGCTGGCGCAGTAGCCCAA | 6065-6044 | | |
| *CP*$^{YoMV}$-F | ATGGTTTACAACATCACGAGCTCG | 5595-5618 | RT-PCR detection of YoMV | 474 bp |
| *CP*$^{YoMV}$-R | CTATGTAGCTGGCGCAGTAGC | 6068-6048 | | |

[a] Underlined letters represent the sequences of the restriction enzyme site introduced into the putative *CP* gene amplicon.

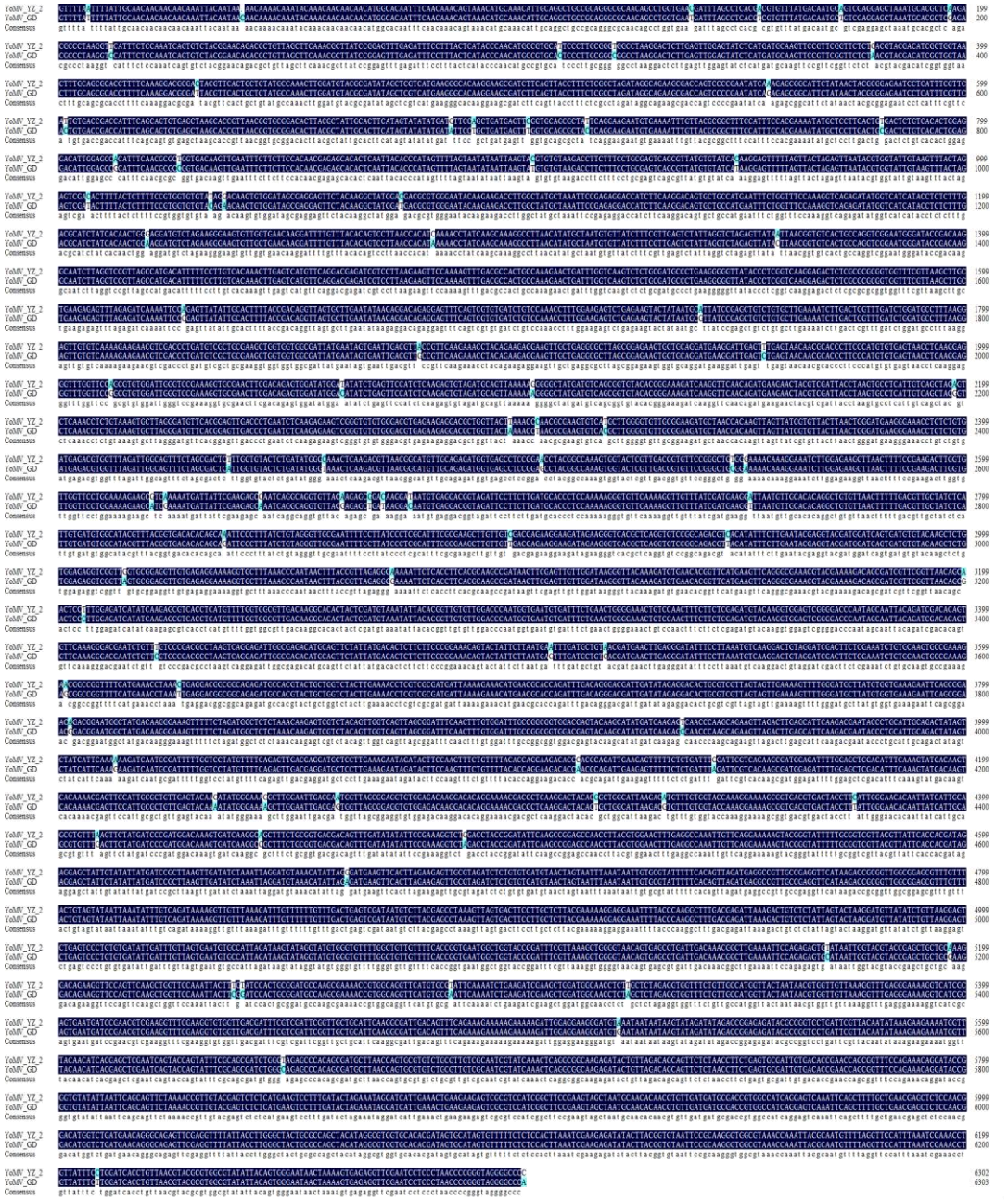
[b] Numbers shown are the corresponding nucleotide positions of the primers on the YoMV reference genomic RNA (Accession No. OR261028.1).

**Supplementary Table S2. The four oligonucleotide primers used for the S-RT-LAMP assay for the detection of YoMV CP.**

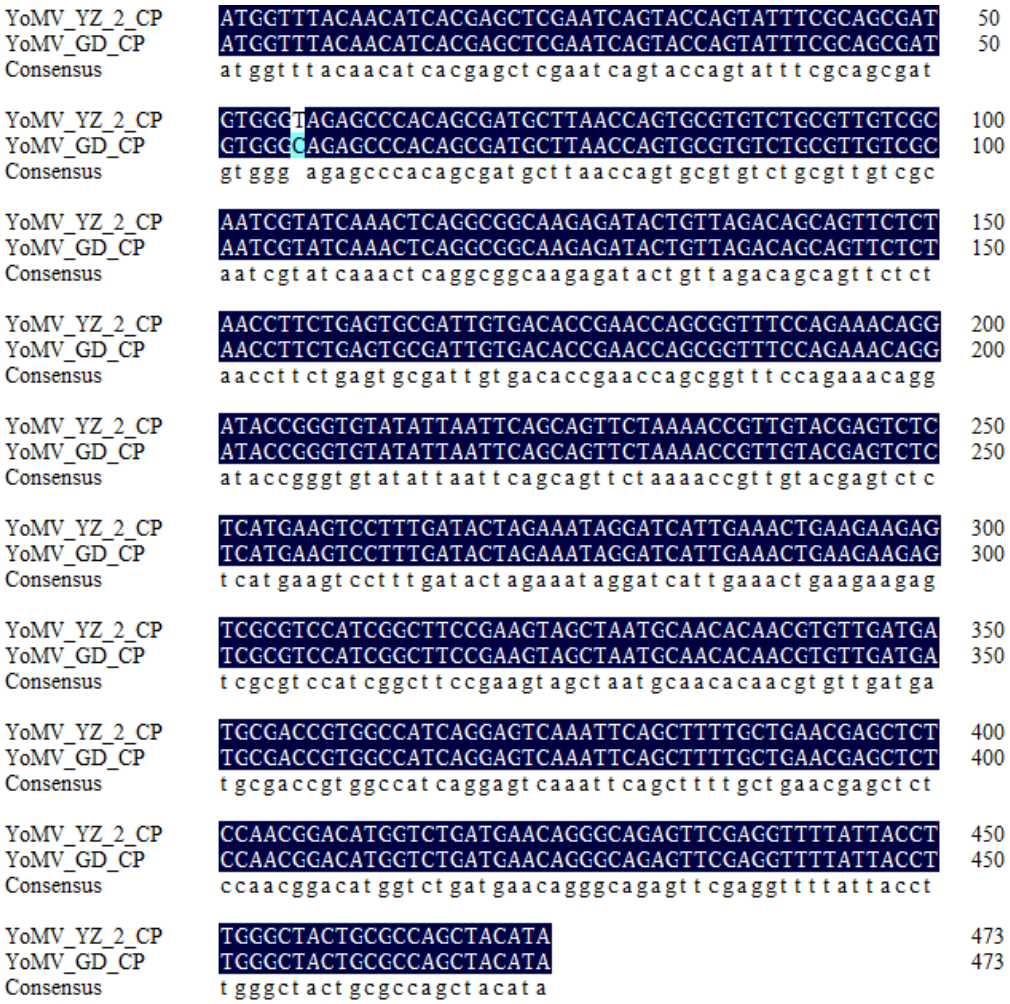
| Primer Name | Primer sequences | Position | Length of Primers |
|---|---|---|---|
| YoMV F3 | CATCACGAGCTCGAATCAGT | 12-31 | 20 bp |
| YoMV B3 | TTCTGGAAACCGCTGGTTC | 195-177 | 19 bp |
| YoMV FIP(F1c+F2) | ACGCAGACACGCACTGGTTAAGCCAG TATTTCGCAGCGATGT | 94-73,33-52 | 42 bp |
| YoMV BIP(B1c+B2) | ATCGTATCAAACTCAGGCGGCAACAAT CGCACTCAGAAGGTT | 102-124,169-151 | 42 bp |



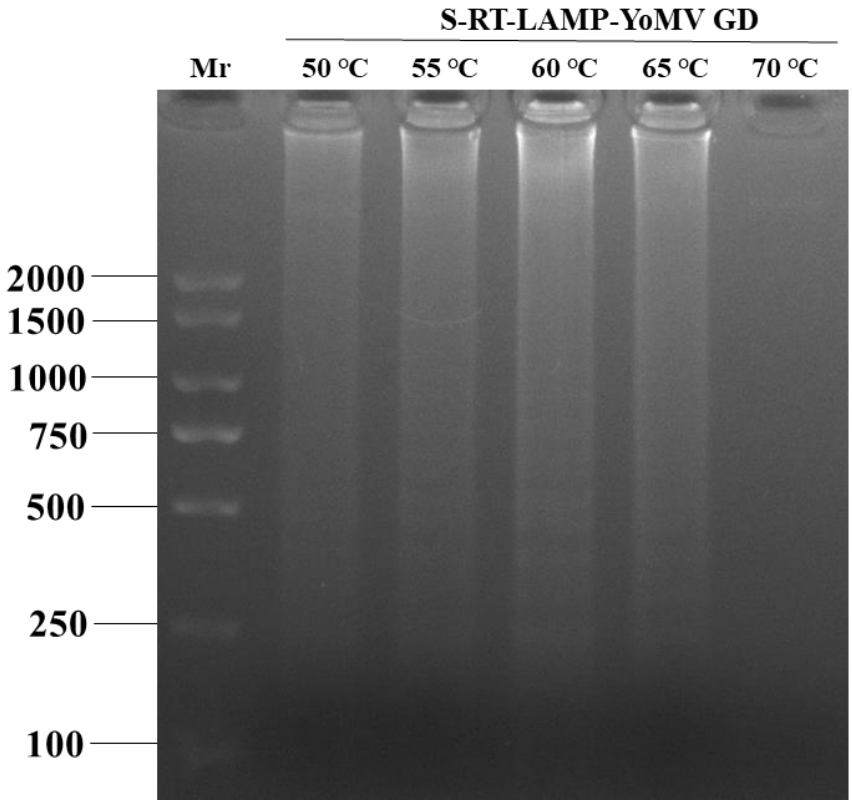

**Supplementary Fig. S1** Phylogenetic evolutionary tree of different isolates based on YoMV CP was constructed using MEGA. Red triangular arrows point out the $CP^{YoMV\ GD}$ and $CP^{YoMV\ YZ}$ for this experiment.



**Supplementary Fig. S2** Results of complete genome sequence comparison between YoMV YZ-2 and YoMV GD.




**Supplementary Fig. S3** Results of CP gene sequence comparison between YoMV YZ-2 and YoMV GD.




**Supplementary Fig. S4** S-RT-LAMP amplification temperature probe experiment for YoMV. At 60°C Celsius the bands are the brightest and appear as more pronounced trapezoidal bands.