**Table 2. List of different viruses and a viroid analysed in the present study along with their acronyms, type of genome, genus and family names, and primers used**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Name of virus** | **Acronym** | **Genome** | **Genus** | **Family** | **Forward primer 5’-3’** | **Reverse primer 5’-3’** | **Predicted product size****(base pairs)** | **Reference\*\*** |
| 1. | *Alfalfa mosaic virus* | AMV | (+) ssRNA | *Alfamovirus* | *Bromoviridae* | AACCTACTAAACGTTCTCAG  | CTTCATACCTTGACCTTAATCC  | 704 | [19] |
| 2. | *Cucumber mosaic virus*  | CMV | (+) ssRNA | *Cucumovirus* | *Bromoviridae* | GTAGACATCTGTGACGCGA | GCGCGAAACAAGCTTCTTATC | 540 | [20] |
| 3. | *Groundnut bud necrosis virus*  | GBNV | (+/-) ssRNA | *Orthotospovirus* | *Bunyaviridae* | AAGGATCCATGTCTAACGTAAAGCAACTAACCG | AACTCGAGTTACAATTCCAGCGAAGAACTAGCC | 831 | This study |
| 4. | *Impatiens necrotic spot virus*  | INSV | (-) ssRNA | *Tospovirus* | *Bunyaviridae* | TAACACAACACAAAGCAAACC | CCAAATACTACTTTAACCGCA | 906 | [21] |
| 5. | *Potato leaf roll virus*  | PLRV | (+) ssRNA | *Polerovirus*  | *Luteoviridae*  | CGCGCTAACAGAGTTCAGCC  | CCAAATACTACTTTAACCGCA  | 466 | [22] |
| 6. | *Potato mop top virus*  | PMTV | (+) ssRNA | *Pomovirus*  | *Virgaviridae*  | AGAGCAGCCGTCGAGAATAG | TCGTCCACCTCTGCGAGTTG  | 416 | [23] |
| 7. | *Potato spindle tuber viroid*\* | PSTVd | (+) ssRNA | Pospiviroid | Pospiviroidae | GGGATCCCCGGGGAAAC | AGCTTCAGTTGTWTCCACCGGGT | 200 | [24] |
| 8. | *Potato virus A*  | PVA | (+) ssRNA | *Potyvirus*  | *Potyviridae*  | GTACTGAACTGGAAAAGTACT  | CCCTGACAGTTGAAACATAA  | 1,100 | [25] |
| 9. | *Potato virus M*  | PVM | (+) ssRNA | *Carlavirus*  | *Betaflexiviridae*  | GCCACATCYGAGGACATGAT  | GTGAGCTCSGGACCATTCAT  | 524 | [23] |
| 10. | *Potato virus S*  | PVS | (+) ssRNA | *Carlavirus*  | *Betaflexiviridae*  | GAGGCTATGCTGGAGCAGAG  | AATCTCAGCGCCAAGCATCC  | 738 | [23] |
| 11. | *Potato virus X*  | PVX | (+) ssRNA | *Potexvirus* | *Alphaflexiviridae* | TAGCACAACACAGACCACAG | GGCAGCATTCATTTCAGCTTC | 562 | [26] |
| 12. | *Potato virus Y*  | PVY | (+) ssRNA | *Potyvirus*  | *Potyviridae*  | ACTGTGATGAATGGGCTTATG | CGCATATATGGTTCCTTTTTG | 218 | [27] |
| 13. | *Tomato aspermy virus*  | TAV | (+) ssRNA | *Cucumovirus* | *Bromoviridae* | CGGGATCCATGGCCCAAAACGG TACGGGA | GGAATTCTCACACCGGGAGCGTTGAAGCG | 657 | [28] |
| 14. | *Tomato bushy stunt virus*  | TBSV | (+) ssRNA | *Tombusvirus* | *Tombusviridae* | CCAGGATTTCTCGACCTAGT | ATGGGATATCTCGATTGATC | 1102 | [29] |
| 15. | *Tomato infectious chlorosis virus*  | TICV | (+) ssRNA | *Crinivirus* | *Closteroviridae* | TCAGTGCGTACGTTAATGGG | CACAGTATACAGCAGCGGCA | 501 | [30] |
| 16. | *Tomato chlorosis virus*  | ToCV | (+) ssRNA | *Crinivirus* | *Closteroviridae* | AAGAATTCATGGAGAACAGTGCTGTTGCAAACA | AACTCGAGTTAGCAACCAGTTATCGATGCAAGT | 774 | [31] |
| 17.  | *Tomato mosaic virus*  | ToMV | (+) ssRNA | *Tobamovirus* | Virgaviridae | CGAGAGGGGCAACAAACAT | ACCTGTCTCCATCTCTTTGG | 318 | [32] |
| 18. | *Tobacco rattle virus*  | TRV | (+) ssRNA | *Tobravirus* | *Virgaviridae* | GACGTGTGTACTCAAGGGTT | CAGTCTATACACAGAAACAGA | 463 | [33] |
| 19. | *Tomato spotted wilt virus*  | TSWV | (+/-) ssRNA | *Tospovirus* | *Bunyaviridae* | TTAAGCAAGTTCTGTGAGTT | ATGTCTAAGGTTAAGCTCAC | 777 | [19] |
| 20. | *Tomato yellow leaf curl virus*  | ToLCNDV(DNA-A Begomovirus) | (+) ssDNA | *Begomovirus* | *Geminiviridae* | TGTGARGGYCCWTGYAARGTYCA | CARRTMMRRTTCAAYHACAACMTVMGGA | 827 | [34] |

\*Viroid

\*\*References used for primer designing