**Supplementary Table S2.** List of Rep and CP amino acids in different BBTV isolates used in this study.

|  |  |  |  |
| --- | --- | --- | --- |
| **Protein** | **Accession no** | **Place of origin** | **Isolate** |
| BBTV Rep | ACK43789 | Haikou,China | Haikou |
| BBTV Rep | AZL93958 | Haikou,China | B2 |
| BBTV Rep | ALU11293 | Guangdong, China | DW4 |
| BBTV Rep | AKO71391 | Taiwan, China | Q623\_TW\_1996 |
| BBTV Rep | AOC83974 | Congo | Mvz-80 |
| BBTV Rep | AKO71319 | Egypt | 8\_150510\_EG\_2010 |
| BBTV Rep | AFN27070 | Rwanda | Rwanda 138 |
| BBTV Rep | AFN27075 | Malawi | Malawi 73 |
| BBTV Rep | ABB59944 | India | Lucknow |
| BBTV Rep | AGF92158 | Pakistan | TJ3 |
| BBTV Rep | AEV53366 | Sri Lanka | Kandy |
| BBTV Rep | NP\_604483 | Australia | Australia |
| BBTV Rep | ACA34591 | India | Tamil Nadu |
| BBTV Rep | AAC98788 | Egypt | gyptian  |
| ABTV Rep | YP\_001661660 | Malaysia | Q767 |
| BBTV CP | ACK43790 | Haikou,China | Haikou |
| BBTV CP | AZL93959 | Haikou,China | B2 |
| BBTV CP | ASV46566 | Guangdong, China | DW4 |
| BBTV CP | AKO71247 | Taiwan, China | Q623\_TW\_1996 |
| BBTV CP | AON96281 | Congo | Mvz-80 |
| BBTV CP | AKO71177 | Egypt | 8\_150510\_EG\_2010 |
| BBTV CP | AFN27071 | Rwanda | Rwanda 138 |
| BBTV CP | AFN27076 | Malawi | Malawi 73 |
| BBTV CP | ABS12247 | India | Lucknow |
| BBTV CP | AGF92159 | Pakistan | TJ3 |
| BBTV CP | AEV53368 | Sri Lanka | Kandy |
| BBTV CP | AAA87368 | Australia | Australia |
| BBTV CP | ACF24825 | India | Tamil Nadu |
| BBTV CP | AAC98792 | Egypt | gyptian  |
| ABTV CP | YP\_001661657 | Malaysia | Q767 |