**Supplementary table 3:** List of NCBI GenBank sequences used for designing primers

|  |  |  |
| --- | --- | --- |
| **Cowpea virus** | **NCBI accession number** | **Organism (NCBI)** |
| CPMoV | NC\_003535 | Cowpea mottle virus |
|  | FJ707484 | Soybean yellow mottle mosaic virus strain MS1 |
|  | FJ457015 | Soybean yellow mottle mosaic virus from South Korea |
|  | AB250686  | Melon necrotic spot virus strain: Nagasaki |
| SCPMV | NC\_001625  | Southern cowpea mosaic virus |
|  | NC\_016033  | Soybean yellow common mosaic virus |
|  | NC\_004060  | Southern bean mosaic virus isolate Sao Paulo |
|  | AF055888  | Southern bean mosaic virus strain SBMV-S |
|  | AF055887  | Southern bean mosaic virus strain SBMV-B |
|  | NC\_002568  | Sesbania mosaic virus |
| Cowpea polerovirus 1Cowpea polerovirus 2 | AY956384  | Chickpea chlorotic stunt virus isolate Et-fb-am1 |
|  | HM804472  | Beet western yellows virus strain BJ genotype B |
|  | EU636992  | Cucurbit aphid-borne yellows virus from China |
|  | NC\_010809  | Melon aphid-borne yellows virus |
|  | NC\_018571  | Suakwa aphid-borne yellows virus |
| Cowpea associated mycotymovirid 1 | KT360947  | Fusarium graminearum mycotymovirus 1 isolate SX64 |
|  | NC\_002164  | Poinsettia mosaic virus |
|  | U87832  | Oat blue dwarf virus  |
| Cowpea tombusvirid 1 | NC\_003633  | Oat chlorotic stunt virus |
|  | NC\_003627  | Maize chlorotic mottle virus |
| Cowpea tombusvirid 2 | NC\_009533  | Maize white line mosaic virus |
| Cowpea tombusvirid 3 | NC\_014967  | Honeysuckle ringspot virus |