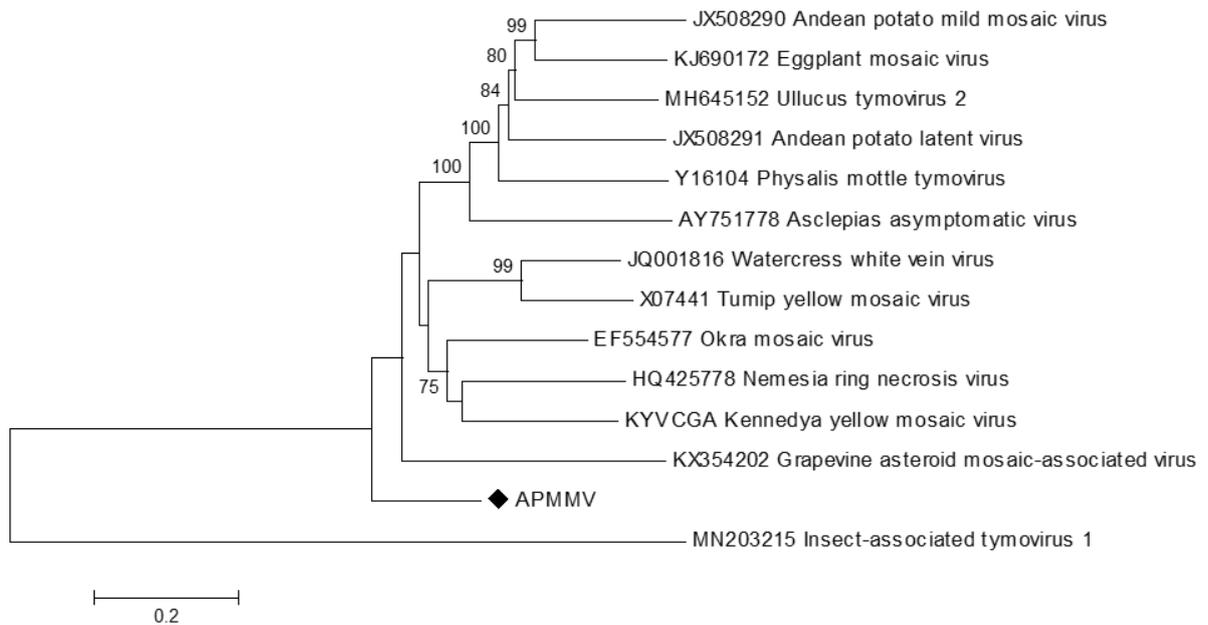


A)

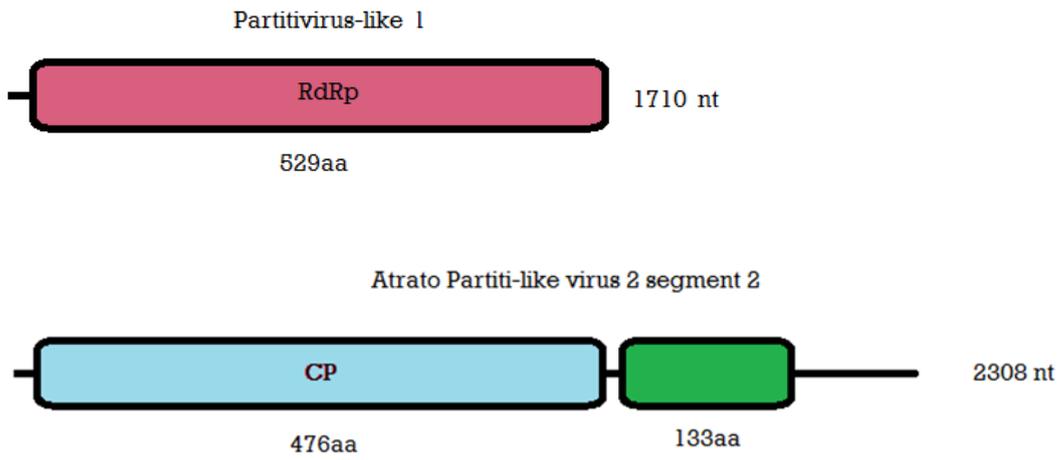


B)

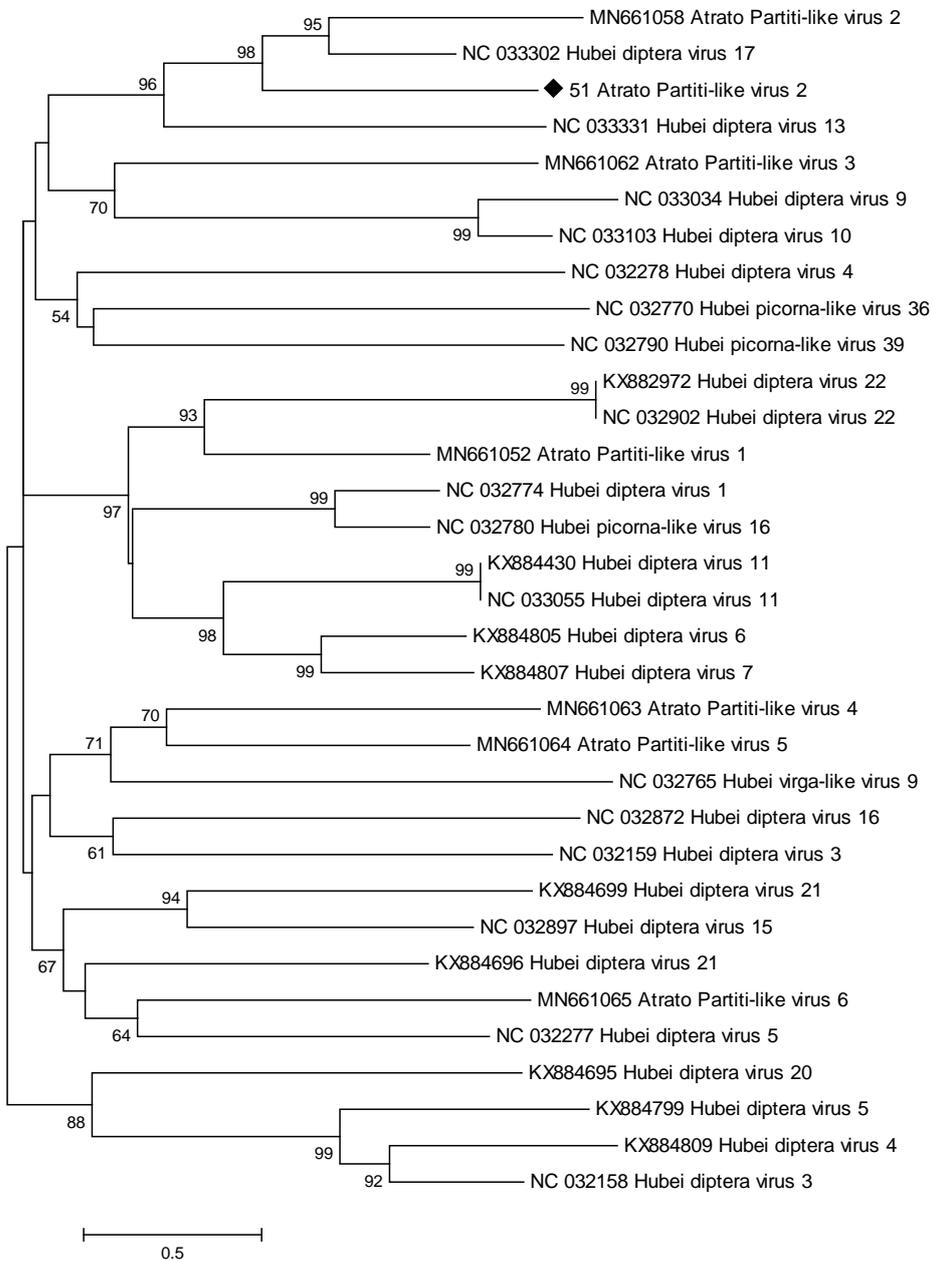
**Figure S1.** Andean potato mild mosaic virus (APMMV) as a novel *Inya* insect-associated virus 1 and 2. The APMMV are close to Insect-associated tymovirus 1 and 2 (near 60% identity). (*Viruses*; *Riboviria*; *Orthornavirae*; *Kitrinoviricota*; *Alsuviricetes*; *Tymovirales*; unclassified *Tymovirales*.)

A) The scheme of genome organization for Insect-associated tymovirus 1

B) The phylogenetic trees for RNA viruses for selected *Tymovirales* and APMMV



A)

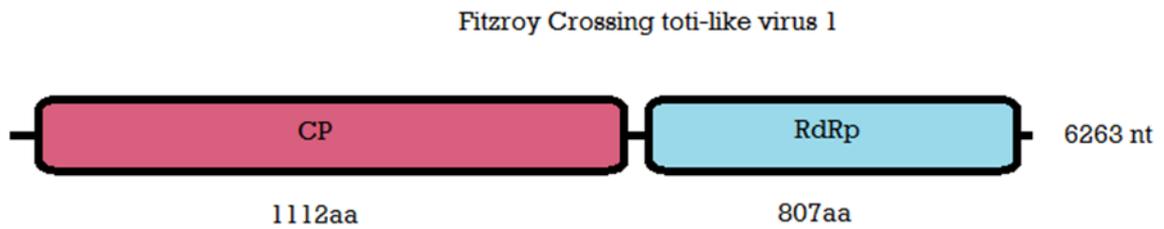


B)

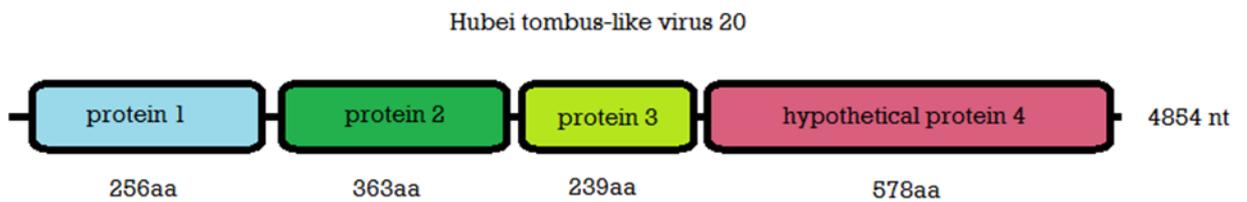
**Figure S2.** A novel virus with a 51% identity to Atrato Partiti-like virus 2 was detected in the *Anopheles messeae* pool and referred to as the Krahall insect-associated virus.

**A)** The scheme of genome organization for *Partitivirus*.

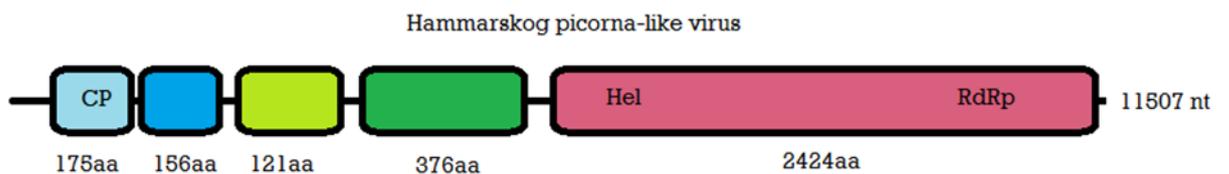
**B)** The phylogenetic relationship of *Partitivirus* with Atrato Partiti-like virus 2, based on the alignment of the RdRp and the putative scheme for the partitivirus genome.



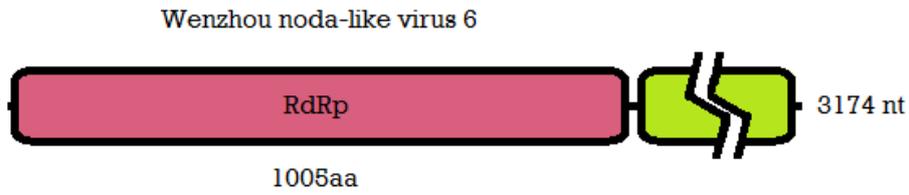
**Figure S3.** The scheme of genome organization for the Fitzroy Crossing toti-like virus 1.



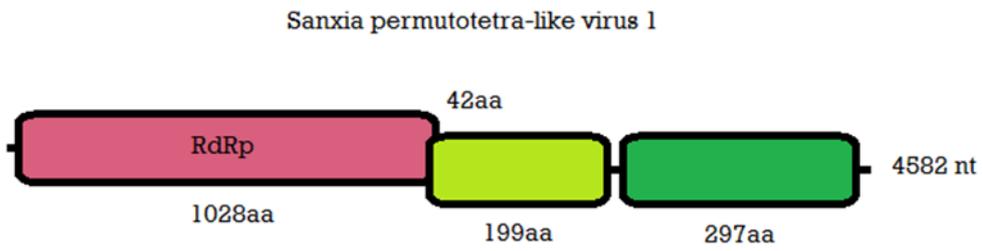
**Figure S4.** The scheme of genome organization for the Tombus-like virus.



**Figure S5.** The genome organization for the picorna-like virus.



**Figure S6.** The genome organization for the nodaviruses (ssRNA).



**Figure S7.** The genome organization for the permutotetraviruses.