A lineage of begomoviruses encode Rep and AC4 proteins of enigmatic ancestry: hints on the evolution of geminiviruses in the New World.

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Supplementary Figure 1.

Weeds infected with the begomoviruses described in this study

A

S1A. *Abutilon permolle* plant co-infected with AbGMYV and CoYSV.

S1B. *Capraria biflora* plant infected with CarYMYV

S1C. *Vigna elegans* plant infected with ViYMV.