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Construction of infectious clones of lychnis ringspot virus and evaluation of its relationship with barley stripe mosaic virus by reassortment of genomic RNA segments

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Highlights:

- Construction of infectious cDNA clones of lychnis ringspot virus and their delivery by agroinfiltration.
- Chloroplasts are the sites of LRSV replication.
- Reassortant LRSV/BSMV viruses fail to infect *Nicotiana benthamiana*.

Abstract

Lychnis ringspot virus (LRSV, genus *Hordeivirus*) was first isolated in 1959, and has been shown to infect several dicot plants in nature. However, due to the lack of

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