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Title: Development of a new vector using *Soybean yellow common mosaic virus* for gene function study or heterologous protein expression in soybeans

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*A new viral vector using *Soybean yellow common mosaic virus* (SYCMV) was constructed for gene function study or heterologous protein expression in soybeans.

*VIGS constructs containing either the *PDS* gene (pSYCMV-PDS1) or the *RbcS* gene (pSYCMV-RbcS2), and the vector encoding the VP1 fragment of Foot-and-mouth disease virus (FMDV; pSYCMV-FMDV) were constructed.

*Plants infiltrated with each VIGS vector exhibited distinct target gene transcript-silenced symptoms, and down-regulation of the target gene transcripts was confirmed.

*Plants infiltrated with pSYCMV-FMDV accumulated the heterologous protein as a translational fusion.

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