

Resource Summary Report

Generated by [NIF](#) on Aug 10, 2026

pYL192 (TRV1)

RRID:Addgene_148968

Type: Plasmid

Proper Citation

RRID:Addgene_148968

Plasmid Information

URL: <http://www.addgene.org/148968>

Proper Citation: RRID:Addgene_148968

Insert Name: TRV RNA1

Organism: Tobacco Rattle Virus RNA 1

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:12028572](#)

Vector Backbone Description: Backbone Size:11498; Vector Backbone:pBIN19; Vector Types:Plant vector with TRV RNA1; this vector used with pYL156(TRV RNA2) for virus induced gene silencing (VIGS); Bacterial Resistance:Kanamycin

Plasmid Name: pYL192 (TRV1)

Relevant Mutation: P697S mutation in putative replicase. S239G and S246P mutation in 16kDa protein.

Record Creation Time: 20220422T221826+0000

Record Last Update: 20260808T080936+0000

Ratings and Alerts

No rating or validation information has been found for pYL192 (TRV1).

No alerts have been found for pYL192 (TRV1).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Strauch CJ, et al. (2026) A P-type pentatricopeptide repeat-containing protein interacts with the Japanese soil-borne wheat mosaic virus movement protein and modulates susceptibility to infection. *The Journal of general virology*, 107(6).

??zcan DE, et al. (2025) Modification of Gene Expression Involved in Alkaloid Production in Opium Poppy by VIGS Combined With Pretreatment of Macerozyme Enzyme. *Plant direct*, 9(1), e70034.

Clark MK, et al. (2025) Selection of stable reference genes for accurate reverse-transcription quantitative PCR in cotton-herbivore studies using virus-induced gene silencing. *Scientific reports*, 15(1), 24482.

Mardini M, et al. (2024) Advancing virus-induced gene silencing in sunflower: key factors of VIGS spreading and a novel simple protocol. *Plant methods*, 20(1), 122.

Maki T, et al. (2023) The mutation of CaCKI1 causes seedless fruits in chili pepper (*Capsicum annuum*). *TAG. Theoretical and applied genetics. Theoretische und angewandte Genetik*, 136(4), 85.

Spencer KP, et al. (2023) CRISPR-based resistance to grapevine virus A. *Frontiers in plant science*, 14, 1296251.

Nam H, et al. (2022) JULGI-mediated increment in phloem transport capacity relates to fruit yield in tomato. *Plant biotechnology journal*, 20(8), 1533.

Dudley QM, et al. (2022) Reconstitution of monoterpene indole alkaloid biosynthesis in genome engineered *Nicotiana benthamiana*. *Communications biology*, 5(1), 949.

Bagchi R, et al. (2022) Polyvalent guide RNAs for CRISPR antivirals. *iScience*, 25(11), 105333.