

Resource Summary Report

Generated by [NIF](#) on Sep 3, 2026

pYL156 (TRV RNA2)

RRID:Addgene_148969

Type: Plasmid

Proper Citation

RRID:Addgene_148969

Plasmid Information

URL: <http://www.addgene.org/148969>

Proper Citation: RRID:Addgene_148969

Insert Name: Modified TRV RNA2

Organism: Modified Tobacco Rattle Virus RNA 2

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:12028572](#)

Vector Backbone Description: Backbone Size:6426; Vector Backbone:pCAMBIA0390 T-DNA vector; Vector Types:T-DNA vector; Bacterial Resistance:Kanamycin

Comments: There are a few differences between the Addgene full sequence and the Genbank ID: AF406991. These discrepancies were confirmed to not cause functional differences: - 1 bp insertion (T3313) in backbone. - 1 bp mismatch (T5593C) and 1 bp insertion (G5646) in pVS1 RepA (known variant). - IS4-like element inserted between ori and KanR (1338bp insert at positions 8295-9632bp).

Plasmid Name: pYL156 (TRV RNA2)

Relevant Mutation: see comments section below

Record Creation Time: 20220422T221826+0000

Record Last Update: 20260902T042258+0000

Ratings and Alerts

No rating or validation information has been found for pYL156 (TRV RNA2).

No alerts have been found for pYL156 (TRV RNA2).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

??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.

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