

Resource Summary Report

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

pMM287

RRID:Addgene_46035

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/46035>

Proper Citation: RRID:Addgene_46035

Insert Name: WRN K577M

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:15084309](#)

Vector Backbone Description: Backbone Marker:Clontech; Vector Backbone:pBI; Vector Types:Mammalian Expression, TetOn, bidirectional promoter; Bacterial Resistance:Ampicillin

Comments: Bidirectional vector expresses WRN and GFP at similar expression levels. In the associated article, cells were transiently transfected with this plasmid together with a tTA transactivator plasmid (Gossen, 1992). This is a mammalian expression vector for helicase-dead human WRN protein. It was constructed from pBI, a Clontech plasmid with a bi-directional promoter+ TRE backbone, modified by insertion of a polylinker containing BspD1 and XhoI sites followed by insertion of a myc-WRN K577M ORF- created by making K577M (A>T) mutation in pMM290 sequence. The S2G mutation was a result of the cloning strategy to add the myc tag. The WRN protein containing S2G was biochemically verified and is wild-type in terms of activities, as described in the associated publication.

Plasmid Name: pMM287

Relevant Mutation: K577M helicase-dead mutant; S2G introduced during cloning

Record Creation Time: 20220422T222237+0000

Record Last Update: 20260905T075700+0000

Ratings and Alerts

No rating or validation information has been found for pMM287.

No alerts have been found for pMM287.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.