

# Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

## [pRK792](#)

RRID:Addgene\_8830

Type: Plasmid

### Proper Citation

RRID:Addgene\_8830

### Plasmid Information

**URL:** <http://www.addgene.org/8830>

**Proper Citation:** RRID:Addgene\_8830

**Insert Name:** TEV protease, S219P mutant

**Bacterial Resistance:** Chloramphenicol and Ampicillin

**Defining Citation:** [PMID:11809930](#)

**Vector Backbone Description:** Backbone Marker:New England Biolabs; Backbone Size:6700; Vector Backbone:pMal-C2; Vector Types:Bacterial Expression; Bacterial Resistance:Chloramphenicol and Ampicillin

**Comments:** pRK792 overproduces the catalytic domain of tobacco etch virus (TEV) protease in the form of an MBP fusion protein that cleaves itself in vivo to yield a TEV protease catalytic domain with an N-terminal His-tag and a C-terminal polyarginine tag. The TEV protease produced by this strain is the autoinactivation-resistant mutant S219P. The pRIL plasmid (Stratagene) improves the yield of TEV protease by increasing the supply of argU tRNA in the cell (for AGG and AGA codons). The catalytic activity of the S219P mutant is approximately 2-fold less than that of the wild-type protease. Bacterial strain: E.coli BL21(DE3)-RIL (Stratagene).

**Plasmid Name:** pRK792

**Relevant Mutation:** S219P mutation

**Record Creation Time:** 20220422T222604+0000

**Record Last Update:** 20260815T082150+0000

### Ratings and Alerts

No rating or validation information has been found for pRK792.

No alerts have been found for pRK792.

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## Data and Source Information

**Source:** [Addgene](#)

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## Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Hariharan P, et al. (2024) Mobile barrier mechanisms for Na<sup>+</sup>-coupled symport in an MFS sugar transporter. eLife, 12.

Yaakov G, et al. (2021) Measurement of histone replacement dynamics with genetically encoded exchange timers in yeast. Nature biotechnology, 39(11), 1434.

Srivastava AP, et al. (2018) High-resolution cryo-EM analysis of the yeast ATP synthase in a lipid membrane. Science (New York, N.Y.), 360(6389).

Wintgens JP, et al. (2017) Characterizing Dynamic Protein-Protein Interactions Using the Genetically Encoded Split Biosensor Assay Technique Split TEV. Methods in molecular biology (Clifton, N.J.), 1596, 219.

Wehr MC, et al. (2015) Monitoring G protein-coupled receptor activation using the protein fragment complementation technique split TEV. Methods in molecular biology (Clifton, N.J.), 1272, 107.

Boland EL, et al. (2014) Structural complementation of the catalytic domain of pseudomonas exotoxin A. Journal of molecular biology, 426(3), 645.