

# Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 31, 2026

## SpyTag-?-Lactamase-SpyCatcher

RRID:Addgene\_52656

Type: Plasmid

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### Proper Citation

RRID:Addgene\_52656

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### Plasmid Information

**URL:** <http://www.addgene.org/52656>

**Proper Citation:** RRID:Addgene\_52656

**Insert Name:** TEM-1 ?-Lactamase

**Organism:** Synthetic

**Bacterial Resistance:** Kanamycin

**Defining Citation:** [PMID:24817566](#)

**Vector Backbone Description:** Backbone Marker:Novagen; Backbone Size:5369; Vector Backbone:pET28a; Vector Types:Bacterial Expression; Bacterial Resistance:Kanamycin

**Plasmid Name:** SpyTag-?-Lactamase-SpyCatcher

**Record Creation Time:** 20220422T222309+0000

**Record Last Update:** 20260829T080651+0000

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### Ratings and Alerts

No rating or validation information has been found for SpyTag-?-Lactamase-SpyCatcher.

No alerts have been found for SpyTag-?-Lactamase-SpyCatcher.

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### Data and Source Information

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

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### Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Kang Y, et al. (2023) Lactate oxidase/vSIRP $\alpha$  conjugates efficiently consume tumor-produced lactates and locally produce tumor-necrotic H<sub>2</sub>O<sub>2</sub> to suppress tumor growth. International journal of biological macromolecules, 231, 123577.

Yang JI, et al. (2022) Display of Streptococcus iniae  $\alpha$ -Enolase on the Surface of Virus-Like Particles (VLPs) of Nervous Necrosis Virus (NNV) Using SpyTag/SpyCatcher. Marine biotechnology (New York, N.Y.), 24(6), 1066.

Jun H, et al. (2022) TRAIL & EGFR affibody dual-display on a protein nanoparticle synergistically suppresses tumor growth. Journal of controlled release : official journal of the Controlled Release Society, 349, 367.

Koh DW, et al. (2022) Engineering Ag43 Signal Peptides with Bacterial Display and Selection. Methods and protocols, 6(1).

Wang Y, et al. (2019) SpyTag/SpyCatcher cyclization enhances the thermostability and organic solvent tolerance of L-phenylalanine aldolase. Biotechnology letters, 41(8-9), 987.

Knox R, et al. (2018) Mapping Conformational Dynamics to Individual Steps in the TEM-1  $\beta$ -Lactamase Catalytic Mechanism. Journal of molecular biology, 430(18 Pt B), 3311.

Choi H, et al. (2018) Fabrication of Nanoreaction Clusters with Dual-Functionalized Protein Cage Nanobuilding Blocks. Small (Weinheim an der Bergstrasse, Germany), 14(35), e1801488.

Schoene C, et al. (2016) SpyRings Declassified: A Blueprint for Using Isopeptide-Mediated Cyclization to Enhance Enzyme Thermal Resilience. Methods in enzymology, 580, 149.