

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 9, 2026

SpyLigase

RRID:Addgene_51722

Type: Plasmid

Proper Citation

RRID:Addgene_51722

Plasmid Information

URL: <http://www.addgene.org/51722>

Proper Citation: RRID:Addgene_51722

Insert Name: SpyLigase

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24639550](https://pubmed.ncbi.nlm.nih.gov/24639550/)

Vector Backbone Description: Backbone Marker:Life Technologies; Backbone Size:6400; Vector Backbone:pDEST14; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: SnoopLigase is the more recent peptide-peptide ligation technology from the Howarth lab and is now preferred over SpyLigase in terms of more general reaction conditions and higher coupling yield on a range of proteins. pET28a-AviTag-SnoopLigase <https://www.addgene.org/105626/> pET28a-HaloTag7-SnoopLigase <https://www.addgene.org/105627/> SpyLigase peptide-peptide ligation polymerizes affibodies to enhance magnetic cancer cell capture. Jacob O. Fierer, Gianluca Veggiani and Mark Howarth Transform plasmid into BL21 DE3 RIPL for expression.

Plasmid Name: SpyLigase

Record Creation Time: 20220422T222304+0000

Record Last Update: 20260808T081806+0000

Ratings and Alerts

No rating or validation information has been found for SpyLigase.

No alerts have been found for SpyLigase.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Siegmund V, et al. (2019) SpyLigase-Catalyzed Modification of Antibodies. Methods in molecular biology (Clifton, N.J.), 2012, 171.

Siegmund V, et al. (2016) Spontaneous Isopeptide Bond Formation as a Powerful Tool for Engineering Site-Specific Antibody-Drug Conjugates. Scientific reports, 6, 39291.