

# Resource Summary Report

Generated by [RRID](#) on Aug 17, 2026

## [pIN207](#)

RRID:Addgene\_255798

Type: Plasmid

### Proper Citation

RRID:Addgene\_255798

### Plasmid Information

**URL:** <http://www.addgene.org/255798>

**Proper Citation:** RRID:Addgene\_255798

**Insert Name:** SspGyrBC - XtpS

**Organism:** Xenorhabdus nematophila ATCC 19061

**Bacterial Resistance:** Spectinomycin and Streptomycin

**Vector Backbone Description:** Vector Backbone:pCDF; Vector Types:Bacterial Expression; Bacterial Resistance:Spectinomycin and Streptomycin

**Comments:** This plasmid encodes the termination unit of the non-ribosomal peptide synthetase (NRPS) called xenotetrapeptide synthetase (XtpS), split at an XU site and fused to the C-terminal part of the split intein SspGyrB. When co-expressed with pIN103 and pIN203, the three fragments splice into a functional NRPS that produces the non-ribosomal peptide (NRP) called xenotetrapeptide (XTP; cyclo[Leu-D-Val-Val-D-Val]; CC(C)C[C@H]1C(=O)N[C@@H](C(=O)N[C@H](C(=O)N[C@@H](C(=O)N1)C(C)C)C(C)C)C(C)C; 410.6 g/mol). For successful NRP production, the three plasmids must be co-transformed into an E. coli strain that expresses a broad-spectrum phosphopantetheinyl transferase, such as MtaA (DH10B::mtaA) or Sfp (BAP1), which is required for the post-translational activation of the T domains. Expression is controlled by an araBAD promoter, inducible with 0.2% arabinose.

**Plasmid Name:** pIN207

**Record Creation Time:** 20260722T042528+0000

**Record Last Update:** 20260815T083621+0000

### Ratings and Alerts

No rating or validation information has been found for pIN207.

No alerts have been found for pIN207.

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## Data and Source Information

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

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.