

Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 5, 2026

TN-XXL pRSETB

RRID:Addgene_45796

Type: Plasmid

Proper Citation

RRID:Addgene_45796

Plasmid Information

URL: <http://www.addgene.org/45796>

Proper Citation: RRID:Addgene_45796

Insert Name: TN-XXL

Organism: Gallus gallus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:19160515](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:2900; Vector Backbone:pRSETB; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: TN-XXL is composed of two fluorescent proteins: cyan fluorescent protein (CFP) as the FRET donor and cpCitrine as the FRET acceptor. These proteins are linked by the calcium-sensitive double C-terminal lobe of troponin C (TnC). After the binding of free calcium, TnC undergoes a reversible conformational change that leads to energy transfer from the donor to the acceptor fluorophore, resulting in a drop in CFP fluorescence and an increase in cpCitrine fluorescence.

Plasmid Name: TN-XXL pRSETB

Record Creation Time: 20220422T222236+0000

Record Last Update: 20260905T075658+0000

Ratings and Alerts

No rating or validation information has been found for TN-XXL pRSETB.

No alerts have been found for TN-XXL pRSETB.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.