

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 1, 2026

[AEB-Theo45](#)

RRID:Addgene_63850

Type: Plasmid

Proper Citation

RRID:Addgene_63850

Plasmid Information

URL: <http://www.addgene.org/63850>

Proper Citation: RRID:Addgene_63850

Insert Name: Theo45 theophylline riboswitch

Organism: Synthetic

Bacterial Resistance: Chloramphenicol

Defining Citation: [PMID:26621913](#)

Vector Backbone Description: Vector Backbone:pFTV1; Vector Types:Synthetic
Biology; Bacterial Resistance:Chloramphenicol

Plasmid Name: AEB-Theo45

Record Creation Time: 20220422T222405+0000

Record Last Update: 20260829T080837+0000

Ratings and Alerts

No rating or validation information has been found for AEB-Theo45.

No alerts have been found for AEB-Theo45.

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](#) .

Khadake RM, et al. (2026) Engineering ligands for theophylline riboswitches expands its regulatory dynamic range in prokaryotic and eukaryotic systems. Nature communications, 17(1).

Ojha D, et al. (2025) Rational development of FMN-based orthogonal riboswitch that functions in response to specific non-cognate ligand. Nature communications, 16(1), 5751.