

Resource Summary Report

Generated by [NIF](#) on Jul 29, 2026

T-B18

RRID:Addgene_159446

Type: Plasmid

Proper Citation

RRID:Addgene_159446

Plasmid Information

URL: <http://www.addgene.org/159446>

Proper Citation: RRID:Addgene_159446

Insert Name: BsMDH BmHPS BmPHI (on Addgene plasmid # 129104)

Organism: Bacillus subtilis and Bacillus methanolicus (for plasmid gene insert)

Bacterial Resistance: Ampicillin and Kanamycin

Defining Citation: [PMID:33404828](#)

Vector Backbone Description: Backbone Marker:Eleftherios Terry Papoutsakis (Addgene plasmid # 129104); Vector Backbone:pETM6_Ptrc_BsMdh_BmHps_BmPhi; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin and Kanamycin

Comments: This T-B18 E.coli strain harbors the pETM6_Ptrc_BsMdh_BmHps_BmPhi plasmid (Addgene plasmid # 129104), which enables the evolved E. coli strain to metabolize methanol in its central carbon metabolism. It was adaptively evolved from the parent strain, E. coli BW25113 Δ frmA::kanR (obtained from the Keio collection) containing Addgene plasmid # 129104 such that it grows efficiently with just 2mM Thr and 250 mM MeOH. This strain has been functionally validated for growth by the depositing laboratory. Addgene has not confirmed the plasmid by QC sequence analysis.

Plasmid Name: T-B18

Relevant Mutation: see Supplemental Documents for genome analysis of strain T-B18 against a reference BW25113 genome

Record Creation Time: 20220422T221903+0000

Record Last Update: 20260725T074108+0000

Ratings and Alerts

No rating or validation information has been found for T-B18.

No alerts have been found for T-B18.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.