

Resource Summary Report

Generated by [dkNET](#) on Jul 31, 2026

KTD101(DE3)

RRID:Addgene_138651

Type: Plasmid

Proper Citation

RRID:Addgene_138651

Plasmid Information

URL: <http://www.addgene.org/138651>

Proper Citation: RRID:Addgene_138651

Insert Name: None

Organism: E. coli

Bacterial Resistance: None

Defining Citation: [PMID:31772280](#)

Vector Backbone Description: Vector Backbone:N/A; Vector Types:; Bacterial Resistance:None

Comments: Genotype: ?DE3 ?tig100 ?(araD–araB)567 ?lacZ4787(::rrnB-3) lacIP-4000(lacIQ) rph-1 ?(rhaD–rhaB)568 hsdR514 KTD101(DE3) is a ?DE3 derivative of the trigger factor deficient (?tig) strain KTD101 from Puertas et al 2010 Protein Expression and Purification 74: 122–128, PMID 20600941. Puertas et al 2010 showed that deletion of trigger factor in the parent strain KTD101 increased the level of secreted recombinantly expressed protein. This strain may also improve the level of protein expression in the periplasm and in the outer membrane. This derivative strain KTD101(DE3) now allows expression that is based on the widely-used T7 promoter. The parent strain KTD101 was provided by François Baneyx at the University of Washington. DE3 lysogenization is apparent from positive expression that was obtained for the BBA57 protein upon expression from the T7 promoter plasmid pBBA57-TEV-His12, as was shown in Figure S5C, lane 7, of Robertson et al, Sci Rep. 2019 Nov 26;9(1):17606. doi: 10.1038/s41598-019-53830-x.

Plasmid Name: KTD101(DE3)

Record Creation Time: 20220604T080121+0000

Record Last Update: 20260725T075435+0000

Ratings and Alerts

No rating or validation information has been found for KTD101(DE3).

No alerts have been found for KTD101(DE3).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.