

Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 19, 2026

Mtb-Timer

RRID:Addgene_258482

Type: Plasmid

Proper Citation

RRID:Addgene_258482

Plasmid Information

URL: <http://www.addgene.org/258482>

Proper Citation: RRID:Addgene_258482

Insert Name: TIMER

Organism: Synthetic

Bacterial Resistance: Hygromycin

Defining Citation: [PMID:42153669](#)

Vector Backbone Description: Vector Backbone:pDE43-MEH; Vector Types:Bacterial Expression; Bacterial Resistance:Hygromycin

Comments: Timer protein, a derivative of DsRed, undergoes a spontaneous and irreversible green-to-red emission shift as it matures over time. Newly synthesized Timer molecules emit green fluorescence, which gradually shifts to red over time. Bacteria can be identified as actively replicating (green), intermediate (orange), or non-replicating (red) based on their green-to-red fluorescence ratio.

Plasmid Name: Mtb-Timer

Relevant Mutation: codon-optimized for Mycobacterium tuberculosis

Record Creation Time: 20260812T041708+0000

Record Last Update: 20260919T094020+0000

Ratings and Alerts

No rating or validation information has been found for Mtb-Timer.

No alerts have been found for Mtb-Timer.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.