

Resource Summary Report

Generated by [RRID](#) on Aug 23, 2026

[pBbA5c-MevT\(CO\)-MBIS\(CO, ispA\)](#)

RRID:Addgene_35151

Type: Plasmid

Proper Citation

RRID:Addgene_35151

Plasmid Information

URL: <http://www.addgene.org/35151>

Proper Citation: RRID:Addgene_35151

Insert Name: AtoB(co)-HMGS(co)-HMGR(co)-MK(co)-PMK(co)-PMD-Idi-IspA

Organism: *Saccharomyces cerevisiae*

Bacterial Resistance: Chloramphenicol

Defining Citation: [PMID:21952217](#)

Vector Backbone Description: Vector Backbone:pBbA5c; Vector Types:Bacterial Expression, Synthetic Biology; Bacterial Resistance:Chloramphenicol

Comments: Please note that the R364 in Mevalonate Kinase (MK) may be susceptible to mutations. The R364S mutation is not expected to impact overall function, however the exact effects are unknown.

Plasmid Name: pBbA5c-MevT(CO)-MBIS(CO, ispA)

Relevant Mutation: R364S in Mevalonate Kinase

Record Creation Time: 20220422T222149+0000

Record Last Update: 20260815T081358+0000

Ratings and Alerts

No rating or validation information has been found for pBbA5c-MevT(CO)-MBIS(CO, ispA).

No alerts have been found for pBbA5c-MevT(CO)-MBIS(CO, ispA).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Santana-Molina C, et al. (2022) The squalene route to C30 carotenoid biosynthesis and the origins of carotenoid biosynthetic pathways. *Proceedings of the National Academy of Sciences of the United States of America*, 119(52), e2210081119.

Rautela A, et al. (2022) Engineering plant family TPS into cyanobacterial host for terpenoids production. *Plant cell reports*, 41(9), 1791.

Li G, et al. (2022) The discovery of germacradienol synthase: Construction of genetically-engineered strain, glycosylated modification, bioactive evaluation of germacradienol. *Bioorganic chemistry*, 124, 105819.

Aguilar F, et al. (2020) Whole-Cell Production of Patchouli Oil Sesquiterpenes in *Escherichia coli*: Metabolic Engineering and Fermentation Optimization in Solid-Liquid Phase Partitioning Cultivation. *ACS omega*, 5(50), 32436.

Aguilar F, et al. (2019) Modulating the Precursor and Terpene Synthase Supply for the Whole-Cell Biocatalytic Production of the Sesquiterpene (+)-Zizaene in a Pathway Engineered *E. coli*. *Genes*, 10(6).

Nybo SE, et al. (2017) Metabolic engineering of *Escherichia coli* for production of valerenadiene. *Journal of biotechnology*, 262, 60.

Yang L, et al. (2017) A homomeric geranyl diphosphate synthase-encoding gene from *Camptotheca acuminata* and its combinatorial optimization for production of geraniol in *Escherichia coli*. *Journal of industrial microbiology & biotechnology*, 44(10), 1431.

Banta AB, et al. (2017) Synthesis of arborane triterpenols by a bacterial oxidosqualene cyclase. *Proceedings of the National Academy of Sciences of the United States of America*, 114(2), 245.

Chen F, et al. (2016) Functional characterization of a geraniol synthase-encoding gene from *Camptotheca acuminata* and its application in production of geraniol in *Escherichia coli*. *Journal of industrial microbiology & biotechnology*, 43(9), 1281.

Katabami A, et al. (2015) Production of squalene by squalene synthases and their truncated mutants in *Escherichia coli*. *Journal of bioscience and bioengineering*, 119(2), 165.