

Resource Summary Report

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E. coli [MG1655 bioB::kan].

RRID:WB-STRAIN:WBStrain00062723

Type: Organism

Proper Citation

RRID:WB-STRAIN:WBStrain00062723

Organism Information

URL: <http://www.wormbase.org/db/get?name=WBStrain00062723>

Proper Citation: RRID:WB-STRAIN:WBStrain00062723

Description: Escherichia coli with name E. coli [MG1655 bioB::kan]. from WB.

Species: Escherichia coli

Synonyms: E. coli [MG1655 bioB::kan].

Notes: Biotin auxotrophic E. coli strain is kan resistant and grows fine on LB. This mutant strain produces significantly less biotin and can therefore be used to reduce background in TurboID experiments. Also known as MG1655 bioB::kan and STL110 (J. Cronen, U. of Illinois). References: Sanchez AD & Feldman JL. STAR Protoc. 2021 Dec 2;2(4):100986. doi: 10.1016/j.xpro.2021.100986. PMID: 34927095. Ortega-Cuellar D., et al. J Nutrigenet Nutrigenomics. 2010;3(1):18-30. doi: 10.1159/000318054. PMID: 20798549|"Made_by: Ortega-Cuellar et al., 2010"

Catalog Number: WB-STRAIN:WBStrain00062723

Database: WormBase (WB)

Database Abbreviation: WB

Availability: unknown

Organism Name: E. coli [MG1655 bioB::kan].

Record Creation Time: 20250827T213347+0000

Record Last Update: 20260815T164055+0000

Ratings and Alerts

No rating or validation information has been found for E. coli [MG1655 bioB::kan]..

No alerts have been found for E. coli [MG1655 bioB::kan]..

Data and Source Information

Source: [Integrated Animals](#)

Source Database: WormBase (WB)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Hassan AH, et al. (2026) Mechanistic insights into E. coli recovery from growth arrest. Nature communications, 17(1).

Liu W, et al. (2026) NAD⁺ capping of sibD transcripts in E. coli is mediated by its minimal promoter and enhanced by ppGpp. Nucleic acids research, 54(5).

Li J, et al. (2026) Repeatability of gene expression evolution in experimental environmental adaptation. Nature communications, 17(1).

Nabarro J, et al. (2026) Lipopolysaccharide confinement in the bacterial outer membrane is governed by interactions within the conserved Lipid A anchor. The EMBO journal, 45(7), 2338.

Xu X, et al. (2026) Co-option of an ancestral peptidase controls developmental patterning in multicellular cyanobacteria. iScience, 29(1), 114265.

Li X, et al. (2026) Genome-wide screening of antibiotic survival genes in Escherichia coli MG1655. BMC microbiology, 26(1).

Royer M, et al. (2026) The mecillinam resistome in Klebsiella pneumoniae: how resistance to a one-target β -lactam triggers a diversity of responses. Antimicrobial agents and chemotherapy, 70(3), e0120725.

Nakamura Y, et al. (2025) Overexpression of the translocon accessory protein YajC alleviates toxicity of the endogenous pore-forming toxin LdrA in Escherichia coli. PloS one, 20(11), e0336059.

Sánchez-Maroto L, et al. (2025) Idiosyncratic evolvability among single-point ribosomal mutants towards multi-aminoglycoside resistance. PLoS genetics, 21(8), e1011832.