Escherichia coli str. K-12 substr. MG1655, complete genome

NCBI Reference Sequence: NC_000913.3

FASTA Graphics

LOCUS NC_000913 1842 bp DNA linear CON 09-DEC-2025

DEFINITION Escherichia coli str. K-12 substr. MG1655, complete genome.

ACCESSION NC_000913 REGION: 3213047..3214888

VERSION NC_000913.3

DBLINK BioProject: PRJNA57779

BioSample: SAMN02604091

KEYWORDS RefSeq.

SOURCE Escherichia coli str. K-12 substr. MG1655

ORGANISM Escherichia coli str. K-12 substr. MG1655

Bacteria; Pseudomonadati; Pseudomonadota; Gammaproteobacteria;

Enterobacterales; Enterobacteriaceae; Escherichia.

REFERENCE 1 (bases 1 to 1842)

AUTHORS Riley,M., Abe,T., Arnaud,M.B., Berlyn,M.K., Blattner,F.R.,

Chaudhuri,R.R., Glasner,J.D., Horiuchi,T., Keseler,I.M.,
Kosuge,T.,

Mori,H., Perna,N.T., Plunkett,G. III, Rudd,K.E., Serres,M.H.,

Thomas,G.H., Thomson,N.R., Wishart,D. and Wanner,B.L.

TITLE Escherichia coli K-12: a cooperatively developed annotation

snapshot--2005

JOURNAL Nucleic Acids Res. 34 (1), 1-9 (2006)

PUBMED 16397293

REMARK Publication Status: Online-Only

REFERENCE 2 (bases 1 to 1842)

AUTHORS Hayashi,K., Morooka,N., Yamamoto,Y., Fujita,K., Isono,K.,

Choi,S.,
Ohtsubo,E., Baba,T., Wanner,B.L., Mori,H. and Horiuchi,T.
TITLE Highly accurate genome sequences of Escherichia coli K-12 strains MG1655 and W3110
JOURNAL Mol. Syst. Biol. 2, 2006 (2006)
PUBMED 16738553
REFERENCE 3 (bases 1 to 1842)
AUTHORS Blattner,F.R., Plunkett,G. III, Bloch,C.A., Perna,N.T., Burland,V.,
Riley,M., Collado-Vides,J., Glasner,J.D., Rode,C.K., Mayhew,G.F., Gregor,J., Davis,N.W., Kirkpatrick,H.A., Goeden,M.A., Rose,D.J., Mau,B. and Shao,Y.
TITLE The complete genome sequence of Escherichia coli K-12
JOURNAL Science 277 (5331), 1453-1462 (1997)
PUBMED 9278503
REFERENCE 4 (bases 1 to 1842)
AUTHORS Arnaud,M., Berlyn,M.K.B., Blattner,F.R., Galperin,M.Y., Glasner,J.D., Horiuchi,T., Kosuge,T., Mori,H., Perna,N.T., Plunkett,G. III, Riley,M., Rudd,K.E., Serres,M.H., Thomas,G.H. and Wanner,B.L.
TITLE Workshop on Annotation of Escherichia coli K-12
JOURNAL Unpublished
REMARK Woods Hole, Mass., on 14-18 November 2003 (sequence corrections)
REFERENCE 5 (bases 1 to 1842)
AUTHORS Glasner,J.D., Perna,N.T., Plunkett,G. III, Anderson,B.D., Bockhorst,J., Hu,J.C., Riley,M., Rudd,K.E. and Serres,M.H.
TITLE ASAP: Escherichia coli K-12 strain MG1655 version m56

JOURNAL Unpublished

REMARK ASAP download 10 June 2004 (annotation updates)

REFERENCE 6 (bases 1 to 1842)

AUTHORS Hayashi,K., Morooka,N., Mori,H. and Horiuchi,T.

TITLE A more accurate sequence comparison between genomes of Escherichia coli K12 W3110 and MG1655 strains

JOURNAL Unpublished

REMARK GenBank accessions AG613214 to AG613378 (sequence corrections)

REFERENCE 7 (bases 1 to 1842)

AUTHORS Perna,N.T.

TITLE Escherichia coli K-12 MG1655 yqiK-rfaE intergenic region, genomic sequence correction

JOURNAL Unpublished

REMARK GenBank accession AY605712 (sequence corrections)

REFERENCE 8 (bases 1 to 1842)

AUTHORS Rudd,K.E.

TITLE A manual approach to accurate translation start site annotation: an E. coli K-12 case study

JOURNAL Unpublished

REFERENCE 9 (bases 1 to 1842)

CONSRTM NCBI Genome Project

TITLE Direct Submission

JOURNAL Submitted (11-JUL-2025) National Center for Biotechnology Information, NIH, Bethesda, MD 20894, USA

REFERENCE 10 (bases 1 to 1842)

AUTHORS Auchincloss,A.H., Kothari,A., Karp,P.D., Moore,L.R. and

Plunkett,G.

III.

TITLE Direct Submission

JOURNAL Submitted (06-NOV-2024) EcoCyc Project, SRI International, Menlo Park, CA 94025, USA

REMARK Protein update by submitter

REFERENCE 11 (bases 1 to 1842)

AUTHORS Blattner,F.R. and Plunkett,G. III.

TITLE Direct Submission

JOURNAL Submitted (30-JUL-2014) Laboratory of Genetics, University of Wisconsin, 425G Henry Mall, Madison, WI 53706-1580, USA

REMARK Protein update by submitter

REFERENCE 12 (bases 1 to 1842)

AUTHORS Blattner,F.R. and Plunkett,G. III.

TITLE Direct Submission

JOURNAL Submitted (15-NOV-2013) Laboratory of Genetics, University of Wisconsin, 425G Henry Mall, Madison, WI 53706-1580, USA

REMARK Protein update by submitter

REFERENCE 13 (bases 1 to 1842)

AUTHORS Blattner,F.R. and Plunkett,G. III.

TITLE Direct Submission

JOURNAL Submitted (26-SEP-2013) Laboratory of Genetics, University of Wisconsin, 425G Henry Mall, Madison, WI 53706-1580, USA

REMARK Sequence update by submitter

REFERENCE 14 (bases 1 to 1842)

AUTHORS Rudd,K.E.

TITLE Direct Submission

JOURNAL Submitted (06-FEB-2013) Department of Biochemistry and Molecular Biology, University of Miami Miller School of Medicine, 118 Gautier Bldg., Miami, FL 33136, USA

REMARK Sequence update by submitter

REFERENCE 15 (bases 1 to 1842)

AUTHORS Rudd,K.E.

TITLE Direct Submission

JOURNAL Submitted (24-APR-2007) Department of Biochemistry and Molecular Biology, University of Miami Miller School of Medicine, 118 Gautier Bldg., Miami, FL 33136, USA

REMARK Annotation update from ecogene.org as a multi-database collaboration

REFERENCE 16 (bases 1 to 1842)

AUTHORS Plunkett,G. III.

TITLE Direct Submission

JOURNAL Submitted (07-FEB-2006) Laboratory of Genetics, University of Wisconsin, 425G Henry Mall, Madison, WI 53706-1580, USA

REMARK Protein updates by submitter

REFERENCE 17 (bases 1 to 1842)

AUTHORS Plunkett,G. III.

TITLE Direct Submission

JOURNAL Submitted (10-JUN-2004) Laboratory of Genetics, University of Wisconsin, 425G Henry Mall, Madison, WI 53706-1580, USA

REMARK Sequence update by submitter

REFERENCE 18 (bases 1 to 1842)

AUTHORS Plunkett,G. III.

TITLE Direct Submission

JOURNAL Submitted (13-OCT-1998) Laboratory of Genetics, University of Wisconsin, 425G Henry Mall, Madison, WI 53706-1580, USA

REFERENCE 19 (bases 1 to 1842)

AUTHORS Blattner,F.R. and Plunkett,G. III.

TITLE Direct Submission

JOURNAL Submitted (02-SEP-1997) Laboratory of Genetics, University of Wisconsin, 425G Henry Mall, Madison, WI 53706-1580, USA

REFERENCE 20 (bases 1 to 1842)

AUTHORS Blattner,F.R. and Plunkett,G. III.

TITLE Direct Submission

JOURNAL Submitted (16-JAN-1997) Laboratory of Genetics, University of Wisconsin, 425G Henry Mall, Madison, WI 53706-1580, USA

COMMENT REVIEWED REFSEQ: This record has been curated by NCBI staff. The reference sequence is identical to U00096.

On Nov 3, 2013 this sequence version replaced NC_000913.2.
Protein update by submitter; annotation updates are derived from EcoCyc https://ecocyc.org/. Suggestions for updates can be sent to biocyc-support@ai.sri.com. This update was generated from a collaboration that includes EcoCyc, the University of Wisconsin, UniProtKB/Swiss-Prot, and the National Center for Biotechnology Information (NCBI).
COMPLETENESS: full length.

FEATURES Location/Qualifiers

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/db_xref="ECOCYC:EG10896"

/db_xref="GeneID:947567"

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