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

NCBI Reference Sequence: NC_000913.3

FASTA Graphics

Go to:

LOCUS NC_000913 1506 bp DNA linear CON 09-DEC-2025
DEFINITION Escherichia coli str. K-12 substr. MG1655, complete genome.
ACCESSION NC_000913 REGION: 3562013..3563518
VERSION NC_000913.3
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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 1506)
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 1506)
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 1506)
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 1506)

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JOURNAL Unpublished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 1506)
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JOURNAL Unpublished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 1506)
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 1506)
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 1506)
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 1506)
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 1506)
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 1506)
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 1506)
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 1506)
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 1506)
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 1506)
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 1506)
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 1506)
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 1506)
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 1506)
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 1506)
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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