

Recombinant Escherichia coli REP Protein (1-673 aa), GST-tagged

Cat. No. REP-1248E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Escherichia coli (strain K12) REP Protein (1-673 aa) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal. Protein Description: Full Length.
Species	E.coli
Source	E.coli
ProteinLength	1-673 aa
Description	Rep helicase is a single-stranded DNA-dependent ATPase involved in DNA replication; it can initiate unwinding at a nick in the DNA. It binds to the single-stranded DNA and acts in a progressive fashion along the DNA in the 3' to 5' direction.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	104.0 kDa
AA Sequence	MRLNPGQQQAVEFVTGPCLVLGAGSGKTRVITNKIAHLIRGCGYQARHIAAVTFTN KAAREMKERVGQTLGRKEARGLMISTFHTLGLDIIKREYAALGMKANFSLFDDTDQL ALLKELTEGLIEDDKVLLQQLISTISNWKNLKTSPSQAASAIGERDRIFAHCYGLYDA HLKACNVLDFDDLILLPTLLLQRNEEVKRKWQNKIRYLLVDEYQDTNTSQYELVKLLV GSRARFTVVGDDQSIYSWRGARPQNLVLLSQDFPALKVIKLEQNYRSSGRILKAAN

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ILIANNPHVFEKRLFSELGYGAELKVLSANNEEHEAERTVGELIAHHFVNKTQYKDYAI
 LYRGNHQSRVFEKFLMQNRIPYKISGGTSFFSRPEIKDLLAYLRVLTNPDDDSAFLRI
 VNTPKREIGPATLKKLGEWAMTRNKSMTASFDMGSLQTLSGRGYEALTRFTHWLA
 EIQLAEREPIAAVRDLIHGMDYESWLYETSPSPKAAEMRMKNVNQLFSWMTEMLE
 GSELDEPMTLTQVVTRFTLRDMMERGESEEEELDQVQLMTLHASKGLEFPYVYVMVG
 MEEGFLPHQSSIDEDNIDEERRLAYVGITRAQKELTFTLCKERRQYGELVRPEPSRF
 LLELPQDDLIWEQERKVVSAEERMQKGQSHLANLKAMMAAKRGK

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name [rep ATP-dependent DNA helicase Rep \[Escherichia coli str. K-12 substr. MG1655 \]](#)

Official Symbol [REP](#)

Synonyms dasC; ECK3770; mbrA; mmrA;

Gene ID [948292](#)

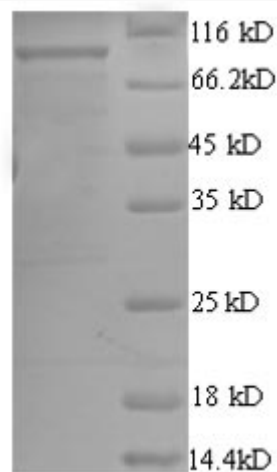
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Protein Refseq YP_026251

UniProt ID P09980



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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