

Recombinant Bacillus sp repA Protein Product Manual

1. Product Basic Information

Product No.: REP08034

Protein Name: Replication Initiation Protein Repls (repA)

Aliases: replication initiation protein RepS

UniProt ID: Q52221

UniProt Link: <https://www.uniprot.org/uniprotkb/Q52221/entry>

Species Source: Bacillus sp

Expression System: E.coli

Protein Length: Full Length (1-307aa)

Molecular Weight: 42.9 kDa

Protein Tag: C-terminal 6xHis-tagged

2. Amino Acid Sequence (1-307aa)

MAEHYEALSKIGAPYYAKKAEKLSCAEYLSFKRDPETGKCLKLYQAHFCKVRLCPM
CAWRRSLKIAYHNKLIVEEANRQYGCGWIFLTLTVRNVKGERLKPQISEMMEGFRK
LFQYKKVKTSVLGFFRALEITKNHEEDTYHPHFHVLIPVRKNYFGKNYIKQAEWTSL
WKKAMKLDYTPIVDIRRVKGGKAKIDAELIENDVREAMMEQKAVLEISKYPVKDTDVV
RGNKVTEDNLNTVLYLDDALAARRLIGYRGILKEIHKELNLGDAEDGDLVKIRKKMTR
LQMVHLRLWLIGILHIKNYIIK

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the



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protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant *Bacillus* sp repA full length protein (1-307aa) expressed in *E.coli*. The protein is with 6xHis tag at the C-terminus, which facilitates protein purification, detection and identification. repA, also known as replication initiation protein RepS, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.