

# Recombinant strain 232 p46

## Protein Product Manual

### 1. Product Basic Information

**Product No.:** REP07717

**Protein Name:** Surface Antigen P46 (p46)

**Aliases:** surface antigen P46

**UniProt ID:** P0C0J7

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P0C0J7/entry>

**Species Source:** Mesomycoplasma hyopneumoniae (strain 232) (Mycoplasma hyopneumoniae)

**Expression System:** E.coli

**Protein Length:** Full Length of Mature Protein (28-416aa)

**Molecular Weight:** 90.4 kDa

**Protein Tag:** N-terminal MBP-tagged and C-terminal 6xHis-Avi-tagged

### 2. Amino Acid Sequence (28-416aa)

CGQTESGSTSDSKPQAETLKHKVSNDSIRIALTDPDNPRWISAQKDIISYVDETEAAT  
STITKNQDAQNNWLTQQANLSPAPKGFIIAPENGSGVGTAVNTIADKGIPIVAYDRLIT  
GSDKYDWYVSFDNEKVGELQGLSLAAGLLGKEDGAFDSIDQMNEYLKSHMPQETI  
SFYTIAGSQDDNNSQYFYNGAMKVLKELMKN SQNKIIDLSPEGENAVYVPGWNYGT  
AGQRIQSFLTINKDPAGGNKIKAVGSKPASIFKGF LAPNDGMAEQAITKLEGFDTQ  
KIFVTGQDYNDKAKTFIKDGDQNMTIYKPKDKVLGKVAVEVLRVLI AKKNKASRSEVE  
NELKAKLPNISFKYDNQTYKVQGKNINTILVSPVIVTKANVDNPDA

### 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 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 strain 232 p46 full length of mature protein protein (28-416aa) expressed in E.coli. The protein is dual-tagged with MBP tag at the N-terminus and 6xHis-Avi tag at the C-terminus, which facilitates protein purification, detection and identification. p46, also known as surface antigen P46, 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.