



# Recombinant isolate Petaluma gag Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP06950

**Protein Name:** Endogenous Retrovirus Group K Member 10 Gag Polyprotein-Like (gag)

**Aliases:** endogenous retrovirus group K member 10 Gag polyprotein-like

**UniProt ID:** P04591

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P04591/entry>

**Species Source:** Feline immunodeficiency virus (isolate Petaluma) (FIV)

**Expression System:** E.coli

**Protein Length:** Partial (1-135aa)

**Molecular Weight:** 22.1 kDa

**Protein Tag:** N-terminal 10xHis-tagged and C-terminal Myc-tagged

## 2. Amino Acid Sequence (1-135aa)

MGNGQGGRDWKMAIKRCSNVAVGVGGKSKKFGEGNFRWAIRMANVSTGREPGDIP  
ETLDQLRLVICDLQERREKFGSSKEIDMAIVTLKVFAVAGLLNMTVSTAAAENMYS  
QMGLDTRPSMKEAGGKEEGPPQAY

## 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 isolate Petaluma gag partial protein (1-135aa) expressed in E.coli. The protein is dual-tagged with 10xHis tag at the N-terminus and Myc tag at the C-terminus, which facilitates protein purification, detection and identification. gag, also known as endogenous retrovirus group K member 10 Gag polyprotein-like, 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.