

# Recombinant human OSGEP protein

Catalog Number: ATGP2793

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-335aa

### UniProt No.

Q9NPF4

### NCBI Accession No.

NP\_060277

### Alternative Names

probable tRNA threonylcarbamoyladenosine biosynthesis protein OSGEP, GCPL1, KAE1, OSGEP1, PRSMG1

## PRODUCT SPECIFICATION

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### Molecular Weight

38.8 kDa (358aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

### Purity

> 80% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

OSGEP belongs to the KAE1 / YgjD family. This protein is required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t6A37) in tRNAs that read codons beginning with adenine. Recombinant human OSGEP protein, fused to His-tag at N-terminus, was expressed in E. coli.

### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSMPAVLGF EGSANKIGVG VVRDGKVLN PRRTYVTPPG TGFLPGDTAR HHRVILDLL QEALTESGLT SQDIDCIAYT KGPGMGAPLV SVAVVARTVA QLWNKPLVGV NHCIGHIEMG RLITGATSPT VLYVSGGNTQ

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VIAYSEHRYR IFGETIDIAV GNCLDRFARV LKISNDPSPG YNIEQMAKRG KKLVELPYTV KGMDVVSFSGI LSFIEDVAHR  
MLATGECTPE DLCFSLQETV FAMLVEITER AMAHCGSQEA LIVGGVGCNV RLQEMMATMC QERGARLFAT DERFCIDNGA  
MIAQAGWEMF RAGHRTPLSD SGVTQRYRTD EVEVTWRD

## General References

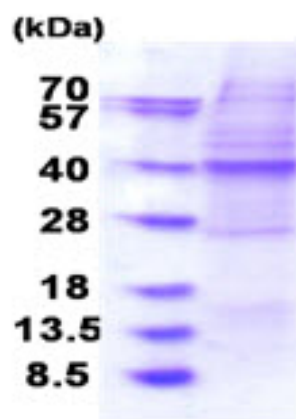
Seki Y., et al (2002). Gene 285:101-108

Burkard T.R., et al (2011). BMC Syst. Biol. 5:17-17

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)