# Recombinant human ORC6 protein

Catalog Number: ATGP2351

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
1-252aa

**UniProt No.**
Q9Y5N6

**NCBI Accession No.**
NP_055136

**Alternative Names**
Origin recognition complex subunit 6, ORC6L

## PRODUCT SPECIFICATION

**Molecular Weight**
30.5 kDa (275aa) confirmed by MALDI-TOF

**Concentration**
0.25mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 2mM DTT

**Purity**
> 90% by SDS-PAGE

**Tag**
His-Tag

**Application**
SDS-PAGE

**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

**Description**
Origin recognition complex subunit 6, also known as ORC6, belongs to the origin recognition complex (ORC). ORC is a highly conserved heterohexameric protein complex that associates with DNA at or near sites of initiation of DNA replication. All six ORC subunits are essential for initiation of DNA replication, and ORC may be involved in regulation of gene expression in response to stress. ORC6 is also expressed constantly throughout the cell cycle. ORC2, ORC3, ORC4 and ORC5 form a core complex upon which ORC6 and ORC1 assemble. Recombinant human ORC6 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

conventional chromatography techniques.

**Amino acid Sequence**

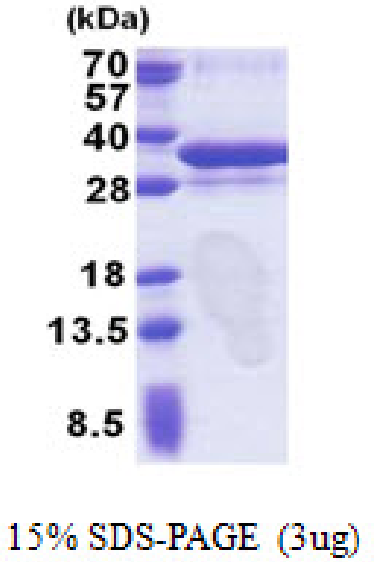
MGSSHHHHHH SSGLVPRGSH MGSMGSELIG RLAPRLGLAE PDMLRKAEEY LRLSRVKCVG LSARTTETSS AVMCLDLAAS WMKCPLDRAY LIKLSGLNKE TYQSCLKSFE CLLGLNSNIG IRDLAVQFSC IEAVNMASKI LKSYESSLPQ TQQVDLDLSR PLFTSAALLS ACKILKLKVD KNKMVATSGV KKAIFDRLCK QLEKIGQQVD REPGDVATPP RKRKKIVVEA PAKEMEKVEE MPHKPQKDED LTQDYEEWKR KILENAASAQ KATAE

**General References**

Kreitz S., et al. (2000) J Biol Chem. 276:6337-6342
Mendez J., et al. (2000) Mol Cell Biol. 20:8602-8612.

## DATA

**SDS-PAGE**




15% SDS-PAGE (3ug)

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