

# Recombinant human OBFC1 protein

Catalog Number: ATGP1935

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-368aa

### UniProt No.

Q9H668

### NCBI Accession No.

NP\_079204.1

### Alternative Names

CST complex subunit STN1, AAF-44, RPA-32, STN1

## PRODUCT SPECIFICATION

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### Molecular Weight

44.5 kDa (391aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

### Purity

> 85% 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

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### Description

CST complex subunit STN1, also known as OBFC1, is a component of the CST complex, a complex that binds to single-stranded DNA and is required to protect telomeres from DNA degradation. The CST complex binds single-stranded DNA with high affinity in a sequence-independent manner, while isolated subunits bind DNA with low affinity by themselves. In addition to telomere protection, the CST complex has probably a more general role in DNA metabolism at non-telomeric sites. Recombinant human OBFC1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH MGS>MQPGSSR CEEETPSLLW GLDPVFLAFA KLYIRDILDM KESRQVPGVF  
LYNGHPIKQV DVLGTVIGVR ERDAFYISYGV DDSTGVINCI CWKKLNTESV SAAPSAAREL SLTSQLKKLQ ETIEQKTKIE  
IGDTIRVRGS IRTYREEREI HATAYYKVDD PVWNIQIARM LELPTIYRKV YDQPFHSSAL EKEEALSNPG ALDLPSLTSL  
LSEKAKEFLM ENRVQSFYQQ ELEMVESLLS LANQPVIHSA CSDQVNFKKD TTSKAIHSIF KNAIQLLQEK GLVFQKDDGF  
DNLYYVTRED KDLHRKIHR IQQDCQKPNH MEKGCHFLHI LACARLSIRP GLSEAVLQQV LELLEDQSDI VSTMEHYTTA F

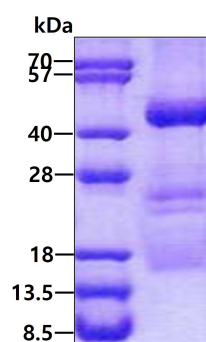
## General References

Miyake Y., et al. (2009) Mol. Cell. 36:193-206

Wan M., et al. (2009) J. Biol. Chem. 284:26725-26731

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.