

# Recombinant human RPS4X protein

Catalog Number: ATGP2458

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

1-263aa

**UniProt No.**

P62701

**NCBI Accession No.**

NP\_000998

**Alternative Names**

40S ribosomal protein S4 X isoform X isoform, 40S ribosomal protein S4, X isoform X isoform, Ribosomal protein S4, X-linked, CCG2; DXS306, RPS4, S4, SCAR, SCR10

## PRODUCT SPECIFICATION

**Molecular Weight**

32 kDa (286aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT

**Purity**

> 95% 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**

Cytoplasmic ribosomes, organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. RPS4X is ribosomal protein S4, a component of the 40S subunit. Ribosomal protein S4 is the only ribosomal protein known to be encoded by more than one gene, namely this gene and ribosomal protein S4, Y-linked (RPS4Y). The 2 isoforms encoded by these genes are not identical, but are functionally equivalent.

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Ribosomal protein S4 belongs to the S4E family of ribosomal proteins. This gene is not subject to X-inactivation. It has been suggested that haploinsufficiency of the ribosomal protein S4 genes plays a role in Turner syndrome; however, this hypothesis is controversial. Recombinant human RPS4X protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

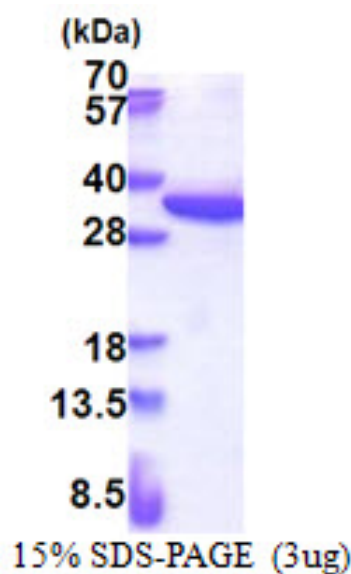
MGSSHHHHHH SGLVPRGSH MGSMARGPKK HLKRVAAPKH WMLDKLTGVF APRPSTGPHK LRECLPLIIF LRNRLKYALT  
GDEVKKICMQ RFIKIDGKVR TDITYPAGFM DVISIDKTGE NFRLIYDTKG RFAVHRITPE EAKYKLCKVR KIFVGTKGIP  
HLVTHDARTI RYPDPLIKVN DTIQIDLETG KITDFIKFDT GNLCMVTGGA NLGRIGVITN RERHPGSFDV VHVKDANGNS  
FATRLSNIFV IGKGNKPWIS LPRGKGIRLT IAEERDKRLA AKQSSG

## General References

Joeson L., Vikesaa J. et al. (2007), *Mol. Cell. Proteomics* 6:798-811

## DATA

### SDS-PAGE



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