

# Recombinant human RPS4X, His-tagged

**Cat. No.** RPS4X-2458H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human RPS4X protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Description</b>	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. 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.
<b>Source</b>	E.coli
<b>Species</b>	Human
<b>Tag</b>	His
<b>Form</b>	Liquid. In 20mM Tris-HCl(pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT
<b>Molecular Mass</b>	32kDa (286aa), confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMARGPKK HLKRVAAPKH WMLDKLTGVF

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APRPSTGPHK LRECLPLIF LRNRLKYALT GDEVKKICMQRFIKIDGKVR  
 TDITYPAGFM DVISIDKTGE NFRLIYDTKG RFAVHRITPE EAKYKLCKVR  
 KIFVGTKGIP HLVTHDARTI RYPDPLIKVN DTIQIDLETG KITDFIKFDT GNLCMVTGGA  
 NLGRIGVITN RERHPGSFDV VHVKDANGNS FATRLSNIFV IGKGNKPWIS  
 LPRGKGIRLTIAEERDKRLA AKQSSG

**Purity** >95% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [RPS4X ribosomal protein S4, X-linked \[ Homo sapiens \]](#)

**Official Symbol** RPS4X

**Synonyms** RPS4X; ribosomal protein S4, X-linked; 40S ribosomal protein S4, X isoform; 40S ribosomal protein S4; X isoform; CCG2; cell cycle gene 2; DXS306; FLJ40595; ribosomal protein S4X isoform; RPS4; S4; SCAR; SCR10; single copy abundant mRNA; single-copy abundant mRNA; single copy abundant mRNA protein;

**Gene ID** [6191](#)

**mRNA Refseq** [NM\\_001007](#)


**Protein Refseq** [NP\\_000998](#)

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<b>MIM</b>	312760
<b>UniProt ID</b>	P62701
<b>Chromosome Location</b>	Xq13.1
<b>Pathway</b>	Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Cap-dependent Translation Initiation, organism-specific biosystem; Cytoplasmic Ribosomal Proteins, organism-specific biosystem; Disease, organism-specific biosystem; Eukaryotic Translation Elongation, organism-specific biosystem; Eukaryotic Translation Initiation, organism-specific biosystem; Eukaryotic Translation Termination, organism-specific biosystem;
<b>Function</b>	rRNA binding; structural constituent of ribosome;

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