

# Recombinant Human Ribosomal Protein, Large, P2, His-tagged

Cat. No. RPLP2-5550H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human RPLP2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	60S acidic ribosomal protein P2, also known as RPLP2, belongs to the L12P family of ribosomal proteins. This gene encodes a ribosomal phosphoprotein that is a component of the 60S subunit. It is a functional equivalent of the E. coli L7/L12 ribosomal protein. RPLP2 is located in the cytoplasm. It plays an important role in the elongation step of protein synthesis. Unlike most ribosomal proteins, which are basic, the encoded protein is acidic.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl.
<b>Molecular Weight</b>	14.2 kDa (139aa) confirmed by MALDI-TOF.
<b>Purity</b>	> 95% by SDS-PAGE.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay).
<b>Sequences of amino acids</b>	MGSSHHHHHSSGLVPRGSH MGSHMRYVAS YLLAALGGNS SPSAKDIKKI LDSVGIEADD DRLNKVISEL NGKNIEDVIAQGIGKLASVP AGGAVAVSAA

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PGSAAPAAGS APAAAEKKD EKKEESEESD DDMGFGLFD

**Storage**

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

**Official Symbol**

RPLP2

**Pathways**

Cap-dependent Translation Initiation; Cytoplasmic Ribosomal Proteins; Developmental Biology; Diabetes pathways; Eukaryotic Translation Elongation; Eukaryotic Translation Initiation; Formation of a pool of free 40S subunits; GTP hydrolysis and joining of the 60S ribosomal subunit; Gene Expression; Influenza Life Cycle; Insulin Synthesis and Processing; Metabolism; Metabolism of mRNA; Nonsense Mediated Decay Enhanced by the Exon Junction Complex; Peptide chain elongation; Ribosome

## GENE INFORMATION

**Gene Name**

RPLP2 ribosomal protein, large, P2 [ Homo sapiens ]

**Synonyms**

RPLP2; ribosomal protein, large, P2; P2; LP2; RPP2; D11S2243E; 60S acidic ribosomal protein P2; renal carcinoma antigen NY-REN-44; acidic ribosomal phosphoprotein P2

**Gene ID**

6181

**mRNA Refseq**

NM\_001004

**Protein Refseq**

NP\_000995

**MIM**

180530

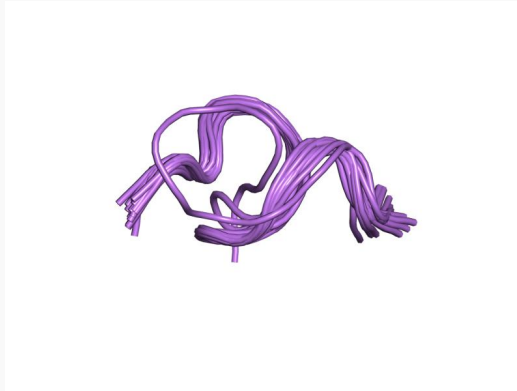
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<b>UniProt ID</b>	P05387
<b>Chromosome Location</b>	11p15.5
<b>Function</b>	RNA binding;structural constituent of ribosome

**Rendering of RPLP2  
from PDB 1S4J**



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