

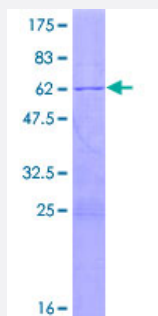
Full-Length

RPL7A (Human) Recombinant Protein (P01)

Catalog # H00006130-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human RPL7A full-length ORF (NP_000963.1, 1 a.a. - 266 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MPKGKKAKGKKVAPAPAVVKKQEAKKVVNPLFEKRPKNFGIGQDIQPKRDLTRFVKWPRYRLQRQRAILYKRLKVPPAINQFTQALDRQTATQLLKLAKHYRPETKQEKQRLRLARAEKKAAGKGDVPTKRPPVLRAGVNTVTTLVENKKAQLVVIADVDPIELVVFLPALCRKMGVPYCIKGKARLGRLVHRKTCTTVAFTQVNSEDKGALAKLVEAIRTNYNDRYDEIRRHWWGGNVLGPKSVARIAKLEKAKAKELATKLG
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	56.4
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — RPL7A

Entrez GeneID [6130](#)

GeneBank Accession# [NM_000972.2](#)

Protein Accession# [NP_000963.1](#)

Gene Name RPL7A

Gene Alias SURF3, TRUP

Gene Description ribosomal protein L7a

Omim ID [185640](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. This gene encodes a ribosomal protein that is a component of the 60S subunit. The protein belongs to the L7AE family of ribosomal proteins. It can interact with a subclass of nuclear hormone receptors, including thyroid hormone receptor, and inhibit their ability to transactivate by preventing their binding to their DNA response elements. This gene is included in the surfait gene cluster, a group of very tightly linked genes that do not share sequence similarity. It is co-transcribed with the U24, U36a, U36b, and U36c small nucleolar RNA genes, which are located in its second, fifth, fourth, and sixth introns, respectively. This gene rearranges with the trk proto-oncogene to form the chimeric oncogene trk-2h, which encodes an oncoprotein consisting of the N terminus of ribosomal protein L7a fused to the receptor tyrosine kinase domain of trk. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq]

Other Designations

60S ribosomal protein L7a|OTTHUMP00000022469|PLA-X polypeptide|surfait 3|surfait locus protein 3|thyroid hormone receptor uncoupling protein

Pathway

- [Ribosome](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)