

Recombinant Human RPL7A, His-tagged

Cat. No. RPL7A-31337TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 29-266 of Human RPL7A with N terminal His tag; Predicted MWt 28 kDa.
Species	Human
Source	E.coli
ProteinLength	29-266 a.a.
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. 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 surfeit 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.

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Conjugation	HIS
Form	Lyophilised:Reconstitute with 121 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	NPLFEKRPKNFGIGQDIQPKRDLTRFVKWPRYIRLQRQRA ILYKRLKVPPAINQFTQA LDRQTATQLLKLAHKYRPET KQEKKQRL LARA EKKAAGKGDVPTKRPPVLRAGVNT VT TLVENKKAQLVVIAHDVDPIELVVFLPALCRKMGPVYC IIKGKARLGRLVHRKTCT TVAFTQVNSEDKGALAKLVEAI RTNYNDRYDEIRRHWG GNVLGP KSVARIAKLEKAK AKE LATKLG
Sequence Similarities	Belongs to the ribosomal protein L7Ae family.

GENE INFORMATION

Gene Name	RPL7A ribosomal protein L7a [Homo sapiens]
Official Symbol	RPL7A
Synonyms	RPL7A; ribosomal protein L7a; 60S ribosomal protein L7a;; L7A; PLA X polypeptide; SURF3; surfeit 3; surfeit locus protein 3; thyroid hormone receptor uncoupling protein; TRUP;
Gene ID	6130
mRNA Refseq	NM_000972

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Protein Refseq	NP_000963
MIM	185640
Uniprot ID	P62424
Chromosome Location	9q34
Pathway	Cap-dependent Translation Initiation, organism-specific biosystem; Cytoplasmic Ribosomal Proteins, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Eukaryotic Translation Elongation, organism-specific biosystem;
Function	RNA binding; protein binding; structural constituent of ribosome;

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