

Recombinant Human ribosomal protein S2, His-tagged

Cat. No. RPS2-306H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RPS2, 1-293aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-293 a.a.
Description	Ribosomes, the 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. RPS2 is a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S5P family of ribosomal proteins. It is located in the cytoplasm. This gene shares sequence similarity with mouse LLRep3. It is co-transcribed with the small nucleolar RNA gene U64, which is located in its third intron. Recombinant human RPS2 protein, fused to His-tag at N-terminus, was expressed in E.coli .
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
Molecular Mass	33.7 kDa (316aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMADDAGA AGGPGGPGGP GMGNRGGFRG GFGSGIRGRG RGRGRGRGRG RGARGGKAED KEWMPVTKLG RLVKDMKIKS LEEIYLFSLP IKESIIDFF LGASLKDEVL KIMPVQKQTR AGQRTRFKAF VAIGDYNHGV GLGVKCSKEV ATAIRGAIL AKLSIVPVRR GYWGNKIGKP

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HTVPCKVTGR CGSVLVRLIP APRGTGIVSA PVPKKLLMMA GIDDCYTSAR
GCTATLGNFA KATFDAISKY YSYLTPDLWK ETVFTKSPYQ EFTDHLVKTH
TRVSVQRTQA PAVATT

Purity >85 % by 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 1.0 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [RPS2 ribosomal protein S2 \[Homo sapiens \]](#)

Official Symbol RPS2

Synonyms RPS2; ribosomal protein S2; 40S ribosomal protein S2; LLREP3; S2; OK/KNS-cl.6; protein LLRep3; 40S ribosomal protein S4; MGC102851; MGC117344; MGC117345;

Gene ID [6187](#)

mRNA Refseq [NM_002952](#)

Protein Refseq [NP_002943](#)

MIM [603624](#)

UniProt ID [P15880](#)

Chromosome Location 16p13.3

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Pathway

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;

Function

RNA binding; fibroblast growth factor 1 binding; fibroblast growth factor 3 binding; protein binding; structural constituent of ribosome;