

## Recombinant Human RPS7, His-tagged

**Cat. No.** RPS7-30471TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length protein, corresponding to amino acids 1-194 of Human RPS7, with an N-terminal His tag, 218aa, 24.7 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 194 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | 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. This gene encodes a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S7E family of ribosomal proteins. It is located in the cytoplasm. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. |
| <b>Conjugation</b>      | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Weight</b> | 24.700kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>           | >90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage buffer</b>           | pH: 8.00Constituents:0.32% Tris HCl, 0.58% Sodium chloride, 30% Glycerol, 0.02% DTT                                                                                                                                                        |
| <b>Storage</b>                  | Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.                                                                                                                            |
| <b>Sequences of amino acids</b> | MGSSHHHHHHSSGLVPRGSHMGSHMFSSSAKIVKPNGEKP DEFESGISQALLELE<br>MNSDLKAQLRELNITAAKEIEVGGG RKAIIFVPVPQLKSFQKIQVRLVRELEKKFSGK<br>HVVFIA QRRILPKPTRKSRTKNKQKRPRSRTLTAVHDAILEDLVFP SEIVGKRIRVKL<br>DGSRLIKVHLDKAQQNNVEHKVETFSGV YKKLTGKDVNFEFPEFQL |
| <b>Sequence Similarities</b>    | Belongs to the ribosomal protein S7e family.                                                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">RPS7 ribosomal protein S7 [ Homo sapiens ]</a> |
| <b>Official Symbol</b> | <a href="#">RPS7</a>                                       |
| <b>Synonyms</b>        | RPS7; ribosomal protein S7; 40S ribosomal protein S7; S7;  |
| <b>Gene ID</b>         | <a href="#">6201</a>                                       |
| <b>mRNA Refseq</b>     | <a href="#">NM_001011</a>                                  |
| <b>Protein Refseq</b>  | <a href="#">NP_001002</a>                                  |
| <b>MIM</b>             | <a href="#">603658</a>                                     |
| <b>Uniprot ID</b>      | <a href="#">P62081</a>                                     |

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|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 2p25                                                                                                                                                                                                                                                                                                                                                                     |
| <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; Developmental Biology, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; |
| <b>Function</b>            | RNA binding; protein binding; structural constituent of ribosome;                                                                                                                                                                                                                                                                                                        |

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