

## Recombinant Human RPL7, His-tagged

**Cat. No.** RPL7-31336TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant fragment, corresponding to amino acids 17-248 of Human RPL7 with N terminal His tag. MWt: 27 kDa;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 17-248 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | <p>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 60S subunit. The protein belongs to the L30P family of ribosomal proteins. It contains an N-terminal basic region-leucine zipper (BZIP)-like domain and the RNP consensus submotif RNP2. In vitro the BZIP-like domain mediates homodimerization and stable binding to DNA and RNA, with a preference for 28S rRNA and mRNA. The protein can inhibit cell-free translation of mRNAs, suggesting that it plays a regulatory role in the translation apparatus. It is located in the cytoplasm. The protein has been shown to be an autoantigen in patients with systemic autoimmune diseases, such as systemic lupus erythematosus. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.</p> |
| <b>Conjugation</b>      | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                                 |                                                                                                                                                                                                                                                                                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>                     | Lyophilised:Reconstitute with 65 µl aqua dest.                                                                                                                                                                                                                                                                           |
| <b>Storage buffer</b>           | Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5                                                                                                                                                                                                            |
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                    |
| <b>Sequences of amino acids</b> | TLKKKRRNFAELKIKRLRKKFAQKMLRKARRKLIYEKAKH YHKEYRQMYRTEIRMAR<br>MARKAGNFYVPAEPKLAFLVIR IRGINGVSPKVRKVLQLLRLRQIFNGTFVKLNKASIN<br>M LRIVEPYIAWGYPNLKSVNELIYKRGYKINKKRIALTDNALIARSLGKYGIICMEDLI<br>HEIYTVGKRKFKEANNFLWP FKLSSPRGGMKKKTTHFVEGGDAGNREDQINRLIRRM<br>N(Amino acid sequence (Sequence determined by 5 Sequencing)) |
| <b>Sequence Similarities</b>    | Belongs to the ribosomal protein L30P family.                                                                                                                                                                                                                                                                            |

## GENE INFORMATION

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">RPL7 ribosomal protein L7 [ Homo sapiens ]</a>         |
| <b>Official Symbol</b> | <a href="#">RPL7</a>                                               |
| <b>Synonyms</b>        | RPL7; ribosomal protein L7; 60S ribosomal protein L7; humL7 1; L7; |
| <b>Gene ID</b>         | <a href="#">6129</a>                                               |
| <b>mRNA Refseq</b>     | <a href="#">NM_000971</a>                                          |
| <b>Protein Refseq</b>  | <a href="#">NP_000962</a>                                          |
| <b>MIM</b>             | <a href="#">604166</a>                                             |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Uniprot ID</b>          | P18124                                                                                                                                                                                                                                                                                              |
| <b>Chromosome Location</b> | 8q13.3                                                                                                                                                                                                                                                                                              |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | DNA binding; RNA binding; mRNA binding; protein homodimerization activity; structural constituent of ribosome;                                                                                                                                                                                      |

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