

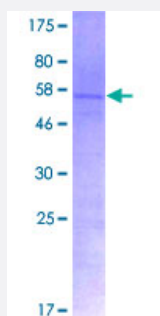
Full-Length

# RPL7 (Human) Recombinant Protein (P01)

Catalog # H00006129-P01

Size 2 ug

## Applications



## Specification

|                               |  |
|-------------------------------|--|
| Product Description           | Human RPL7 full-length ORF ( AAH09599.1, 1 a.a. - 248 a.a.) recombinant protein with GST-tag at N-terminal.  |
| Sequence                      | MEGVEEKKKEVPAVPETLKKKRRNFAELKIKRLRKKFAQKMLRKARRKLIYEKAKHYHKEYRQMY<br>RTEIRMARMARKAGNFYVPAEPKLAFLVIRGINGVSPKVRKVLQLLRQIFNGTFVKLNKASINML<br>RIVEPYIAWGYPNLKSVNELYKRGYKINKKRIALTDNALIARSLGKYGIICMEDLIHEYTVGKRFKEA<br>NNFLWPFKLSSPRGGMKKKTTHFVEGGDAGNREDQINRLIRRMN |
| Host                          | Wheat Germ (in vitro)  |
| Theoretical MW (kDa)          | 55.6   |
| Interspecies Antigen Sequence | Mouse (96); Rat (97)   |
| Preparation Method            | <a href="#">in vitro wheat germ expression system</a>  |
| 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 — RPL7

Entrez GeneID [6129](#)

GeneBank Accession# [BC009599.1](#)

Protein Accession# [AAH09599.1](#)

Gene Name RPL7

Gene Alias MGC117326, humL7-1

Gene Description ribosomal protein L7

Omim ID [604166](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

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. [provided by RefSeq]

**Other Designations** 60S ribosomal protein L7

## Pathway

- [Ribosome](#)

## Disease

- [Tobacco Use Disorder](#)