

# Recombinant Human MRPL12 Protein, GST-tagged

**Cat. No.** MRPL12-5556H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human MRPL12 full-length ORF ( AAH02344, 1 a.a. - 198 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein which forms homodimers. In prokaryotic ribosomes, two L7/L12 dimers and one L10 protein form the L8 protein complex. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 47.52 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MLPAAARPLWGPCGLRLAAAFRLARRQVPCVCAVRHMRSSGHQRCEALAGAPLDN<br>APKEYPPKIQQLVQDIASLTLLLEISDLNELLKKTLLKIQDVGLVPMGGVMSGAVPAAAA<br>QEAVEEDIPIAKERTHFTVRLTEAKPVDKVKLIKEIKNYIQGINLVQAKKLVESLPQEIK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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ANVAKAEAEKIKAALEAVGGTVVLE

#### Applications

Enzyme-linked Immunoabsorbent Assay  
Western Blot (Recombinant protein)  
Antibody Production  
Protein Array

#### Notes

Best use within three months from the date of receipt of this protein.

#### Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

#### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

### GENE INFORMATION

#### Gene Name

MRPL12 mitochondrial ribosomal protein L12 [ Homo sapiens ]

#### Official Symbol

MRPL12

#### Synonyms

MRPL12; mitochondrial ribosomal protein L12; RPML12; 39S ribosomal protein L12, mitochondrial; MRPL7; MRPL7/L12; MRP-L12; 5c5-2; L12mt; MRP-L31/34; MGC8610; FLJ60124;

#### Gene ID

6182

#### mRNA Refseq

NM\_002949

#### Protein Refseq

NP\_002940

#### MIM

602375

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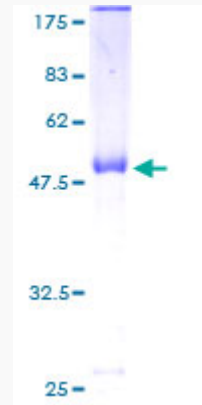
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UniProt ID

P52815

Quality Control

Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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