

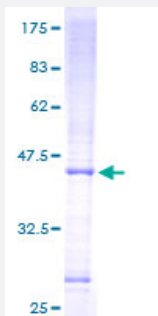
Full-Length

## MRPS16 (Human) Recombinant Protein (P01)

Catalog # H00051021-P01

Size 25 ug, 10 ug

### Applications



### Specification

<b>Product Description</b>	Human MRPS16 full-length ORF ( AAH21106, 1 a.a. - 137 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	MVHLTLLCKAYRGGHL TIRLALGGCTNRPFYRVAAHNKCPRDGRFVEQLGSYDPLPNSHGEKLV ALNLDRIHWWIGCGAHLSPMEKLLGLAGFFPLHPMMITNAERLRRKRAREVLLASQKTDAEATDT EATET
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	40.81
<b>Interspecies Antigen Sequence</b>	Mouse (91); Rat (91)
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	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 — MRPS16

Entrez GeneID [51021](#)

GeneBank Accession# [BC021106](#)

Protein Accession# [AAH21106](#)

Gene Name MRPS16

Gene Alias CGI-132, COXPD2, FLJ22062, FLJ40972, MRP-S16, RPMS16

Gene Description mitochondrial ribosomal protein S16

Omim ID [609204 610498](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

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 28S subunit protein that belongs to the ribosomal protein S16P family. The encoded protein is one of the most highly conserved ribosomal proteins between mammalian and yeast mitochondria. Three pseudogenes (located at 8q21.3, 20q13.32, 22q12-q13.1) for this gene have been described. [provided by RefSeq]

**Other Designations** 28S ribosomal protein S16, mitochondrial|OTTHUMP00000019801

## Disease

- [Alzheimer Disease](#)
- [Genetic Predisposition to Disease](#)