

Full-Length

# MRPS22 (Human) Recombinant Protein (P01)

Catalog # H00056945-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human MRPS22 full-length ORF ( AAH09296, 1 a.a. - 360 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MAPLGTTVLLWSLLRSSPGVERVCFRARIQPWHGGLLQPLPCSFEMGLPRRRFSSEAAESGSP  
ETKKPTFMDEEVQSILTKMTGLNLQKTFKPAIQELKPPTYKLMTQAQLEEATRQAVEAAKVRKMP  
PVLEERVPIINDVLAEDKILEGTETTKYVFTDISYSIPHRERFVVREPSGTLRKASWEERDRMIQVYF  
PKEGRKILTPPIFKEENLRMTYSQDRHVDVLNLCFAQFEPDSTEYIKVHHKTYEDIDKRGKYDLLRST  
RYFGGMVWYFVNKKIDGLLDQQRDLIDDATNLVQLYHVLHPDGQSAQGAQKQAAEGINLIKVFA  
KTEAQKGAYIELTLQTYQEALSRHSAAS

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

65.34

### Interspecies Antigen Sequence

Mouse (78); Rat (78)

### Preparation Method

[in vitro wheat germ expression system](#)

### 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 — MRPS22

**Entrez GeneID**[56945](#)**GeneBank Accession#**[BC009296](#)**Protein Accession#**[AAH09296](#)**Gene Name**

MRPS22

**Gene Alias**

C3orf5, COXPD5, GIBT, GK002, MRP-S22, RPMS22

**Gene Description**

mitochondrial ribosomal protein S22

**Omim ID**[605810](#)**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 28 S 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 does not seem to have a counterpart in prokaryotic and fungal -mitochondrial ribosomes. This gene lies telomeric of and is transcribed in the opposite direction from the forkhead box L2 gene. A pseudogene corresponding to this gene is found on chromosome Xq. [provided by RefSeq]

Other Designations

-