

Full-Length

## MRPS18A (Human) Recombinant Protein (P01)

Catalog # H00055168-P01

Size 50 ug

### Specification

<b>Product Description</b>	Human MRPS18A full-length ORF (BAA91675.1, 1 a.a. - 196 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	MAALKALVSGCGRLLRGLLAGPAATSW SRLPARGFREVVETQEGKTTIEGRITATPKESP NPPNP SGQC PICRWNLKHKYNYDDVLLLSQFIRPHGGMLPRKITGLCQEEHRKIEECVKMAHRAGLLPNH RPRLPEGVVPKSKPQLNRYLTRWAPGSVKPMYKKGPRWNRVMPVGSPLL RDNVCYSRTPWKL YH
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	48.6
<b>Interspecies Antigen Sequence</b>	Mouse (81); Rat (81)
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<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.
<b>Note</b>	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 — MRPS18A

Entrez GeneID	<a href="#">55168</a>
GeneBank Accession#	<a href="#">AK001410.1</a>
Protein Accession#	<a href="#">BAA91675.1</a>
Gene Name	MRPS18A
Gene Alias	FLJ10548, HumanS18b, MRP-S18-3, MRPS18-3, S18bmt
Gene Description	mitochondrial ribosomal protein S18A
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	<p>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 S18P family. The encoded protein is one of three that has significant sequence similarity to bacterial S18 proteins. The primary sequences of the three human mitochondrial S18 proteins are no more closely related to each other than they are to the prokaryotic S18 proteins. A pseudogene corresponding to this gene is found on chromosome 3p. [provided by RefSeq]</p>
Other Designations	OTTHUMP00000016499 mitochondrial ribosomal protein S18-3

## Disease

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