

## Recombinant Human MRPS21 Protein, GST-tagged

Cat. No. MRPS21-5609H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human MRPS21 full-length ORF ( AAH04566, 1 a.a. - 87 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	<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 S21P family. Pseudogenes corresponding to this gene are found on chromosomes 1p, 1q, 9p, 10p, 10q, 16q, and 17q. Available sequence data analyses identified splice variants that differ in the 5' UTR; both transcripts encode the same protein. [provided by RefSeq]</p>
<b>Molecular Mass</b>	35.31 kDa
<b>AA Sequence</b>	MAKHLKFIARTVMVQEGNVESAYRTLNRILTMGLIEDIKHRRYYEKPCRRRQRESY

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ERCRRRIYNMEMARKINFLMRKNRADPWQGC

**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**

[MRPS21 mitochondrial ribosomal protein S21 \[ Homo sapiens \]](#)

**Official Symbol**

[MRPS21](#)

**Synonyms**

MRPS21; mitochondrial ribosomal protein S21; 28S ribosomal protein S21, mitochondrial; S21mt; mitochondrial 28S ribosomal protein S21; MDS016; RPMS21; MRP-S21;

**Gene ID**

[54460](#)

**mRNA Refseq**

[NM\\_018997](#)

**Protein Refseq**

[NP\\_061870](#)

**MIM**

[611984](#)

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UniProt ID

P82921

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