

## Recombinant Human MRPS5 Protein, GST-tagged

**Cat. No.** MRPS5-5624H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Human MRPS5 full-length ORF ( NP_114108.1, 1 a.a. - 430 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 28S subunit protein that belongs to the ribosomal protein S5P family. Pseudogenes corresponding to this gene are found on chromosomes 4q, 5q, and 18q. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 74.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MATAVRAVGCLPVLCSGTAGHLLGRQCSLNTLPAASILAWKSVLGNGHLSSLGTRD<br>THPYASLSRALQTQCCISSPSHLMSSQYRPPYSFFTKLTADDELWKGALAETGAGAKK<br>GRGKRTKKKKRKDLNRGQIIGEGRYGFLWPGLNVPLMKNGAVQTIAQRSKEEQEKV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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

EADMIQQREEWDRKKKMKVKRERGWSGNSWGGISLGPPDPGPCGETYEDFDTRIL  
 EVRNVFTMTAKEGRKKSIRVLVAVGNGKGAAGFSIGKATDRMDAFRKAKNRAVHHL  
 HYIERYEDHTIFHDISLRFKRTHIKMKKQPKGYGLRCHRAITICRLIGIKDMYAKVSGSI  
 NMLSLTQGLFRGLSRQETHQQLADKKGLHVVEIREECGPLPIVVASPRGPLRKDPEP  
 EDEVPDVKLDWEDVKTAQGMKRSVWSNLKRAAT

**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**

MRPS5 mitochondrial ribosomal protein S5 [ Homo sapiens ]

**Official Symbol**

MRPS5

**Synonyms**

MRPS5; mitochondrial ribosomal protein S5; 28S ribosomal protein S5, mitochondrial;  
 mitochondrial 28S ribosomal protein S5; MRP S5; S5mt; MRP-S5;

**Gene ID**

64969

**mRNA Refseq**

NM\_031902

**Protein Refseq**

NP\_114108

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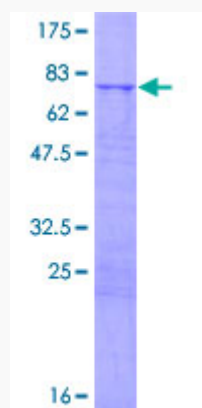
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**MIM** 611972

**UniProt ID** P82675

**Quality Control  
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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