

Recombinant Human MRPS31 Protein, GST-tagged

Cat. No. MRPS31-5619H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPS31 full-length ORF (AAH22045.1, 1 a.a. - 395 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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. The 28S subunit of the mammalian mitoribosome may play a crucial and characteristic role in translation initiation. This gene encodes a 28S subunit protein that has also been associated with type 1 diabetes; however, its relationship to the etiology of this disease remains to be clarified. Pseudogenes corresponding to this gene have been found on chromosomes 3 and 13. [provided by RefSeq]
Molecular Mass	71.7 kDa
AA Sequence	MFPRVSTFLPLRPLSRHPLSSGSPETSAAAIMLLTVRHGTVRYRSSALLARTKNNIQR

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YFGTNSVICSKKDKQSVRTEEISKETSESQDSEKENTKKDLLGIIKGMKVELSTVNVR
 TTKPPKRRPLKSLEAALGRLRRATEYAPKKRIEPLSPELVAAASAVADSLPFDKQTTK
 SELLSQLQQHEEESRAQRDAKRPKISFSNIISDMKVARSATARVRSRPELRIQFDEG
 YDNYPGQEKTDLDLKKRKNIFTGKRLNIFDMMAVTKEAPETDTSPSLWDVEFAKQLAT
 VNEQPLQNGFEELIQWTKEGKLWEFPINNEAGFDDDGSEFHEHIFLEKHLESFPKQG
 PIRHFMELVTCGLSKNPYLSVKQKVEHIEWFRNYFNEKKDILKESNIQFN

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

[MRPS31 mitochondrial ribosomal protein S31 \[Homo sapiens \]](#)

Official Symbol

[MRPS31](#)

Synonyms

MRPS31; mitochondrial ribosomal protein S31; 28S ribosomal protein S31, mitochondrial; IMOGN38; imogen 38; S31mt; MRP-S31;

Gene ID

[10240](#)

mRNA Refseq

[NM_005830](#)

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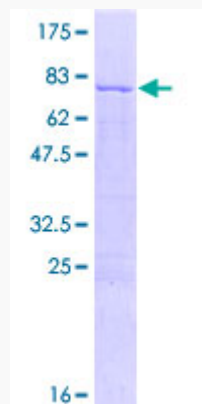
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP_005821

MIM 611992

UniProt ID Q92665

**Quality Control
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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