

Recombinant Full Length Human MRPS31 Protein, GST-tagged

Cat. No. MRPS31-6501HF 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	In Vitro Cell Free System
ProteinLength	395 amino acids
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

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AA Sequence	MFPRVSTFLPLRPLSRHPLSSGSPETSAAAIMLLTVRHGTVRYRSSALLARTKNNIQR YFGTNSVICSKKDKQSVRTEEISKETSESQDSEKENTKKDLLGIIKGMKVELSTVNVR TTKPPKRRPLKSLEAALGRLRRATEYAPKKRIEPLSPELVAAASAVADSLPFDKQTTK SELLSQLQQHEEESRAQRDAKRPKISFSNIISDMKVARSATARVRSRPELRIQFDEG YDNYPGQEKTDLLKKRNIFTGKRLNIFDMMAVTKEAPETDTSPSLWDVEFAKQLAT 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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Protein Refseq	NP_005821
MIM	611992
UniProt ID	Q92665

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