

Recombinant Full Length Human MRPS21 Protein, GST-tagged

Cat. No. MRPS21-6482HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPS21 full-length ORF (AAH04566, 1 a.a. - 87 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	87 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. 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]
Molecular Mass	35.31 kDa

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AA Sequence	MAKHLKFIARTVMVQEGNVESAYRTLNRILTMGLIEDIKHRRYYEKPCRRRQRESY ERCRRYYNMEMARKINFLMRKNRADPWQGC
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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