

Recombinant Full Length Human MRPS12 Protein, GST-tagged

Cat. No. MRPS12-6458HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPS12 full-length ORF (AAH01617, 1 a.a. - 138 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	138 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 S12P family. The encoded protein is a key component of the ribosomal small subunit and controls the decoding fidelity and susceptibility to aminoglycoside antibiotics. The gene for mitochondrial seryl-tRNA synthetase is located upstream and adjacent to this gene, and both genes are possible candidates for the autosomal dominant deafness gene (DFNA4). Splice variants that differ in the 5 UTR have been found for this gene; all three variants encode the same protein. [provided by RefSeq

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Molecular Mass	40.92 kDa
AA Sequence	MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHRLGPPKRPPRKLGPTEGR PQLKGVVLCFTFRKPKKPNSANRKCCRVRLSTGREAVCFIPGEGHTLQEHQIVLVEG GRTQDLPGVKLTVVRGKYDCGHVQKK
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	MRPS12 mitochondrial ribosomal protein S12 [Homo sapiens (human)]
Official Symbol	MRPS12
Synonyms	MRPS12; mitochondrial ribosomal protein S12; RPS12; RPMS12; RPSM12; MPR-S12; MT-RPS12; 28S ribosomal protein S12, mitochondrial; MRP-S12; S12mt; mitochondrial small ribosomal subunit protein uS12m
Gene ID	6183
mRNA Refseq	NM_021107

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Protein Refseq	NP_066930
MIM	603021
UniProt ID	O15235

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