

Recombinant Full Length Human MRPS22 Protein, GST-tagged

Cat. No. MRPS22-6484HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPS22 full-length ORF (AAH09296, 1 a.a. - 360 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	360 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 does not seem to have a counterpart in prokaryotic and fungal-mitochondrial ribosomes. This gene lies telomeric of and is transcribed in the opposite direction from the forkhead box L2 gene. A pseudogene corresponding to this gene is found on chromosome Xq. [provided by RefSeq]
Molecular Mass	65.34 kDa

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AA Sequence	MAPLGTTVLLWSLLRSSPGVERVCFRARIQPWHGGLLQPLPCSFEMGLPRRRFSSE AAESGSPETKKPTFMDEEVQSILTKMTGLNLQKTFKPAIQELKPPTYKLMTQAQLEE ATRQAVEAAKVRLKMPPVLEERVPIINDVLAEDKILEGTETTKYVFTDISYSIPHRERFI VVREPSGTLRKASWEERDRMIQVYFPKEGRKILTPIIFKEENLRTMYSQDRHVDVLN LCFAQFEPDSTEYIKVHHKTYEDIDKRGKYDLLRSTRYFGGMVWYFVNNKKIDGLLID QIQRD LIDDATNLVQLYHVLHPDGQSAQGAQDQAAEGINLIKVFAKTEAQKGAYIELT LQTYQEALSRHSAAS
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	MRPS22 mitochondrial ribosomal protein S22 [Homo sapiens]
Official Symbol	MRPS22
Synonyms	MRPS22; mitochondrial ribosomal protein S22; 28S ribosomal protein S22, mitochondrial; C3orf5; GIBT; GK002; MRP S22; S22mt; COXPD5; RPMS22; MRP-S22;
Gene ID	56945

mRNA Refseq	NM_020191
Protein Refseq	NP_064576
MIM	605810
UniProt ID	P82650

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