

Recombinant Human MRPS22 Protein, GST-tagged

Cat. No. MRPS22-5610H **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	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. 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
AA Sequence	MAPLGTTVLLWSLLRSSPGVERVCFRARIQPWHGGLLQPLPCSFEMGLPRRRFSSE

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AAESGSPETKKPTFMDEEVQSILTKMTGLNLQKTFKPAIQELKPPTYKLMTQAQLEE
 ATRQAVEAAKVRLKMPPVLEERVPIINDVLAEDKILEGTETTKYVFTDISYSIPHRERFI
 VVREPSGTLRKASWEERDRMIQVYFPKEGRKILTPIIFKEENLRTMYSQDRHVDVLN
 LCFAQFEPDSTEYIKVHHKTYEDIDKRGKYDLLRSTRYFGGMVWYFVNNKKIDGLLID
 QIQRD LIDDATNLVQLYHVLHPDGQSAQGAQDQAAEGINLIKVF AKTEAQKGAYIELT
 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](#)

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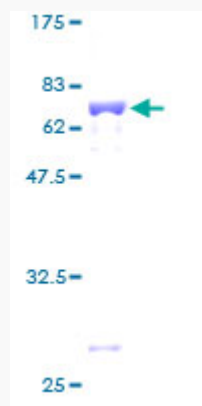
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Protein Refseq NP_064576

MIM 605810

UniProt ID P82650

**Quality Control
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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