

Recombinant Full Length Human MRPL22 Protein, GST-tagged

Cat. No. MRPL22-6414HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPL22 full-length ORF (AAH12565, 1 a.a. - 206 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	206 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 39S subunit protein that belongs to the L22 ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome 4q. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Molecular Mass	48.40 kDa
AA Sequence	MAAAVLGQLGALWIHNLRSGKLALGVLPQSYIHTSASLDIRKWEKKNKIVYPPQLP

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GEPRRPAEIIYHCRRQIKYSKDKMWYLAKLIRGMSIDQALAQLEFNDKKGAKIIKEVLL
EAQDMAVRDHNVEFRSNLYIAESTSGRGQCLKRIRYHGRGRFGIMEKVYCHYFVKL
VEGPPPPPEPPKTAVAHAKECIQQLRSRTIVHTL

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

MRPL22 mitochondrial ribosomal protein L22 [Homo sapiens]

Official Symbol

MRPL22

Synonyms

MRPL22; mitochondrial ribosomal protein L22; 39S ribosomal protein L22, mitochondrial; HSPC158; MRP L25; RPML25; L25mt; 39S ribosomal protein L25, mitochondrial; L22mt; MRP-L22; MRP-L25; DKFZp781F1071;

Gene ID

29093

mRNA Refseq

NM_001014990

Protein Refseq

NP_001014990

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MIM	611835
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UniProt ID	Q9NWU5
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