

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	<p>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</p>
Molecular Mass	48.40 kDa
AA Sequence	MAAAVLGQLGALWIHNLRSRGKLALGVLPQSYIHTSASLDIRKWEKKNKIVYPPQLP

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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
UniProt ID	Q9NWU5

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