

Recombinant Full Length Human MRPL21 Protein, GST-tagged

Cat. No. MRPL21-6413HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPL21 full-length ORF (AAH55088, 1 a.a. - 209 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	209 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. Multiple transcript variants encoding different isoforms were identified through sequence analysis although some may be subject to nonsense-mediated decay (NMD). [provided by RefSeq]
Molecular Mass	48.73 kDa
AA Sequence	MAAAMAASSLTVTLGRLASACSHSILRPSGPGAASLWSASRRFNSQSTSYLPGYVP KTSLSSPPWPPEVVLDPDVEETRHHAEEVVKVNEMIVTGQYGRLEFAVVHFASTRQWKV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

TSEDLILIGNELDLACGERIRLEKVLLVGADNFTLLGKPLLKDLVRVEATVIEKTESW
PRIIMRFRKRKNFKKKRIVTTPQTVLRINSIEIAPCLL

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

MRPL21 mitochondrial ribosomal protein L21 [Homo sapiens]

Official Symbol

MRPL21

Synonyms

MRPL21; mitochondrial ribosomal protein L21; 39S ribosomal protein L21,
mitochondrial; L21mt; MRP-L21; MGC62013;

Gene ID

219927

mRNA Refseq

NM_181514

Protein Refseq

NP_852615

MIM

611834

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UniProt ID

Q7Z2W9

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