

## Recombinant Human MRPL21 Protein, GST-tagged

**Cat. No.** MRPL21-5566H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human MRPL21 full-length ORF ( AAH55088, 1 a.a. - 209 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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] |
| <b>Molecular Mass</b>   | 48.73 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MAAAMAASSLTVTLGRLASACSHSILRPSGPGAASLWSASRRFNSQSTSYPGYVP<br>KTSLSPPWPPEVVLDPDVEETRHHAEEVVKVNEMIVTGQYGRLFVAVHFASTRQWKV<br>TSEDLILIGNELDLACGERIRLEKVLLVGADNFTLLGKPLLGKDLVRVEATVIEKTESW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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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](#)

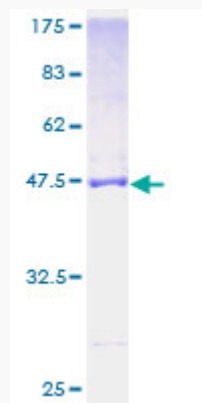
#### UniProt ID

[Q7Z2W9](#)

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**Quality Control****Testing:**

12.5% SDS-PAGE Stained with Coomassie Blue.

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