

# Recombinant Human MRPL34 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** MRPL34-2288H    **Lot. No.** (See product label)

## SPECIFICATION

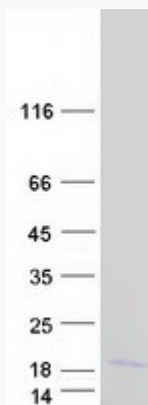
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | MRPL34 MS Standard C13 and N15-labeled recombinant protein (NP_076426) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <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. |
| <b>Molecular Mass</b>   | 10.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MAVLGSLGPTSRSAALLGGRWLQPRAWLGFPDAWGLPTPQQARGKARGNEYQ<br>PSNIKRKNKHGWVRLSTPAGVQVILRRMLKGRKSLSHTRTRPLEQKLISEEDLAAN<br>DILDYKDDDDKV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | Stable for 3 months from receipt of products under proper storage and handling conditions.                                                                 |
| <b>Storage</b>          | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                                                                                |
| <b>Concentration</b>    | 50 µg/mL as determined by BCA                                                                                                                              |
| <b>Storage Buffer</b>   | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                                                                                    |
| <b>GENE INFORMATION</b> |                                                                                                                                                            |
| <b>Gene Name</b>        | MRPL34 mitochondrial ribosomal protein L34 [ Homo sapiens (human) ]                                                                                        |
| <b>Official Symbol</b>  | MRPL34                                                                                                                                                     |
| <b>Synonyms</b>         | MRPL34; mitochondrial ribosomal protein L34; L34mt; 39S ribosomal protein L34, mitochondrial; MRP-L34; mitochondrial large ribosomal subunit protein bL34m |
| <b>Gene ID</b>          | 64981                                                                                                                                                      |
| <b>mRNA Refseq</b>      | NM_023937                                                                                                                                                  |
| <b>Protein Refseq</b>   | NP_076426                                                                                                                                                  |
| <b>MIM</b>              | 611840                                                                                                                                                     |
| <b>UniProt ID</b>       | Q9BQ48                                                                                                                                                     |

**SDS-PAGE**

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