

Recombinant Human MRPL12 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MRPL12-4876H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MRPL12 MS Standard C13 and N15-labeled recombinant protein (NP_002940) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 which forms homodimers. In prokaryotic ribosomes, two L7/L12 dimers and one L10 protein form the L8 protein complex.
Molecular Mass	21.3 kDa
AA Sequence	MLPAAARPLWGPCLGLRAAAFRLARRQVPCVCAVRHMRSSGHQRCEALAGAPLDN APKEYPPKIQQLVQDIASLTLEISDLNELLKKTLLKIQDVGLVPMGGVMSGAVPAAAA

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QEAVEEDIPIAKERTHFTVRLTEAKPVDKVKLIKEIKNYIQGINLVQAKKLVESLPQEIK
ANVAKAEAEKIKAALEAVGGTVVLETRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MRPL12 mitochondrial ribosomal protein L12 [Homo sapiens (human)]

Official Symbol MRPL12

Synonyms MRPL12; mitochondrial ribosomal protein L12; RPML12; 39S ribosomal protein L12, mitochondrial; MRPL7; MRPL7/L12; MRP-L12; 5c5-2; L12mt; MRP-L31/34; MGC8610; FLJ60124;

Gene ID 6182

mRNA Refseq NM_002949

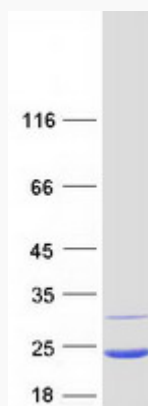
Protein Refseq NP_002940

MIM 602375

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UniProt ID**P52815****SDS-PAGE** 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