

Recombinant Human MRPL46 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MRPL46-2798H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MRPL46 MS Standard C13 and N15-labeled recombinant protein (NP_071446) 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.
Molecular Mass	31.7 kDa
AA Sequence	MAAPVVRTLLGVAGGWRRFERLWAGSLSSRSLALAAAPSSNGSPWRLLGALCLQR PPVVS KPLTPLQEEMASLLQQIEIERSLYSDHELRLDENQRLAKKKADLHDEEDEQ DILLAQDLED MWEQKFLQFKLGARITEADEKNDRTSLNRKLDRLVLLVREKFGDQD VWILPQAEWQPGETLRGTAERTLATLSENNMEAKFLGNAPCGHYTFKFPQAMRTES

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NLGAKVFFFKALLLTGDFSQAGNKGHHVWTKDELGDYLPKPYLAQVRRFVSDLTR
TRPLEQKLISEEDLAANDILDYKDDDDKV

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 MRPL46 mitochondrial ribosomal protein L46 [Homo sapiens (human)]

Official Symbol MRPL46

Synonyms MRPL46; mitochondrial ribosomal protein L46; C15orf4, chromosome 15 open reading frame 4; 39S ribosomal protein L46, mitochondrial; LIECG2; P2ECSL; L46mt; MRP-L46; C15orf4; MGC22762;

Gene ID 26589

mRNA Refseq NM_022163

Protein Refseq NP_071446

MIM 611851

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UniProt ID	Q9H2W6
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SDS-PAGE

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