

Recombinant Full Length Human MRPS34 Protein, C-Flag-tagged

Cat. No. MRPS34-1614HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MRPS34 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 28S subunit protein. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	25.5 kDa
AA Sequence	MARKKVRPRLIAELARRVRALREQLNRPRDSQLYAVDYETLTRPFSGRRLPVRAWA DVRRESRLLQLLGR LPLFGLGRLVTRKSWLWQHDEPCYWRLTRVRPDYTAQNLDH

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GKAWGILTFKGKTESEAREIEHVMYHDWR LVPKHEEEAFTAFTPAPEDSLASVPYP
 PLLRAMIIAERQKNGDTSTEEPMLNVQRIRMEPWDYPKQEDK
 GRAKGTPVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

Gene Name	MRPS34 mitochondrial ribosomal protein S34 [Homo sapiens (human)]
Official Symbol	MRPS34
Synonyms	MRPS12; COXPD32; MRP-S12; MRP-S34
Gene ID	65993
mRNA Refseq	NM_023936.2
Protein Refseq	NP_076425.1

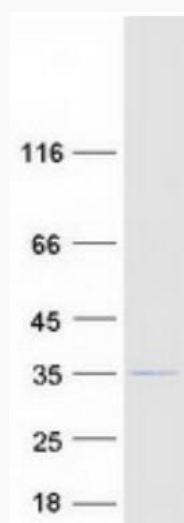
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MIM	611994
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UniProt ID	P82930
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Coomassie blue staining of purified MRPS34 protein.

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