Recombinant Full Length Human MRPL52 Protein, C-Flag-tagged

Cat. No. MRPL52-1797HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MRPL52 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 39S subunit protein which has no bacterial homolog. Multiple transcript variants encoding different protein isoforms were identified through sequence analysis.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	13.5 kDa
AA Sequence	MAALGTVLFTGVRRLHCSAAAWAGGQWRLQQGLAANPSGYGPLTELPDCSYADG

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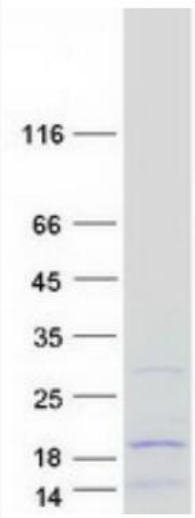
	RPAPPMKGQLRRKAER ETFARRVVLLSQEMDAGLQAWQLRQQKLQEEQRKQENA LKPKGASLKSPLPSQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated 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	MRPL52 mitochondrial ribosomal protein L52 [Homo sapiens (human)]
Official Symbol	MRPL52
Synonyms	mitochondrial ribosomal protein L52; OTTHUMP00000164489
Gene ID	122704
mRNA Refseq	NM_178336.3
Protein Refseq	NP_848026.1

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MIM	611856
UniProt ID	Q86TS9



Coomassie blue staining of purified MRPL52 protein.

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