

Recombinant Human MRPL32 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MRPL32-2259H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MRPL32 MS Standard C13 and N15-labeled recombinant protein (NP_114109) 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 that belongs to the L32 ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome Xp.
Molecular Mass	21.4 kDa
AA Sequence	MALAMLVLVVSPWSAARGVLRNYWERLLRKLPQSRPGFPSPWPWGPALAVQGPAMF TEPANDTSGSKENSSLLDSIFWMAAPKNRRTIEVNRCRRRNPNQKLIKVKNNIDVCPE

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CGHLKQKHVLCAYCYEKVCKETAIEIRRGKQEGGPFKAPTIVVLYTGETPSEQD
QGKRRIERDRKRPSWFTQNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.

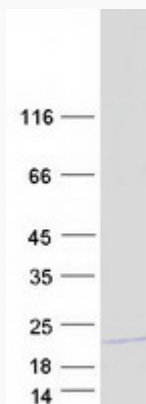
GENE INFORMATION

Gene Name	MRPL32 mitochondrial ribosomal protein L32 [Homo sapiens (human)]
Official Symbol	MRPL32
Synonyms	MRPL32; mitochondrial ribosomal protein L32; L32mt; HSPC283; MRP-L32; bMRP-59b; 39S ribosomal protein L32, mitochondrial; mitochondrial large ribosomal subunit protein bL32m; EC 3.6.5.3
Gene ID	64983
mRNA Refseq	NM_031903
Protein Refseq	NP_114109
MIM	611839

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