

Recombinant Human MRPS33 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MRPS33-5115H Lot. No. (See product label)

SPECIFICATION

Product Overview	MRPS33 MS Standard C13 and N15-labeled recombinant protein (NP_444263) 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. The 28S subunit of the mammalian mitoribosome may play a crucial and characteristic role in translation initiation. This gene encodes a 28S subunit protein that is one of the more highly conserved mitochondrial ribosomal proteins among mammals, <i>Drosophila</i> and <i>C. elegans</i>. Splice variants that differ in the 5' UTR have been found for this gene; all variants encode the same protein. Pseudogenes corresponding to this gene are found on chromosomes 1q, 4p, 4q, and 20q
Molecular Mass	12.4 kDa

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AA Sequence	MSSLSEYAFRMSRLSARLFGVTRPTNSKSMKVVKLFSELPLAKKKETYDWYPNHH TYAELMQTLRFLGLYRDEHQDFMDEQKRLKKLRGKEKPKKGEGKRAAKRKTRTRPL EQKLISEEDLAANDILDYKDDDDKV
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	MRPS33 mitochondrial ribosomal protein S33 [Homo sapiens (human)]
Official Symbol	MRPS33
Synonyms	MRPS33; mitochondrial ribosomal protein S33; 28S ribosomal protein S33, mitochondrial; CGI 139; S33mt; PTD003; CGI-139; MRP-S33; FLJ21123;
Gene ID	51650
mRNA Refseq	NM_053035
Protein Refseq	NP_444263
MIM	611993

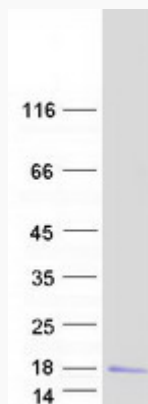
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UniProt ID

Q9Y291

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