

Recombinant Full Length Human MRPS15 Protein, GST-tagged

Cat. No. MRPS15-6467HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPS15 full-length ORF (BAG37829.1, 1 a.a. - 257 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	257 amino acids
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 that belongs to the ribosomal protein S15P family. The encoded protein is more than two times the size of its E. coli counterpart, with the 12S rRNA binding sites conserved. Between human and mouse, the encoded protein is the least conserved among small subunit ribosomal proteins. Pseudogenes corresponding to this gene are found on chromosomes 15q and 19q.
Molecular Mass	54.67 kDa

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AA Sequence	MLRVAWRTLSLIRTRAVTQVLVPLPGGGSAKFPFNQWGLQPRSLLLQAARGYVVR KPAQSRLDDDDPPSTLLKDYQNVPGIEKVDDVVKRLLSLEMANKKEMLKIKQEQFMK KIVANPEDTRSLEARIIALSVKIRSYYEEHLEKHRKDKAHKRYLLMSIDQRKKMLKNLRN TNYDVFEKICWGLGIEYTFPPLYRRAHRRFVTKKALCIRVFQETQKLKKRRRALKAA AAAQKQAKRRNPDSAPAKAIPKTLKDSQ
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	MRPS15 mitochondrial ribosomal protein S15 [Homo sapiens]
Official Symbol	MRPS15
Synonyms	MRPS15; mitochondrial ribosomal protein S15; 28S ribosomal protein S15, mitochondrial; FLJ11564; MRP-S15; DC37; S15mt; RPMS15; MPR-S15;
Gene ID	64960
mRNA Refseq	NM_031280
Protein Refseq	NP_112570

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MIM	611979
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UniProt ID	P82914
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