

Recombinant Full Length Human MRPL3 Protein, GST-tagged

Cat. No. MRPL3-6436HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPL3 full-length ORF (NP_009139.1, 1 a.a. - 348 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	348 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 39S subunit protein that belongs to the L3P ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome 13q. [provided by RefSeq
Molecular Mass	65 kDa
AA Sequence	MPGWRLLTQVGAQVLGRLGDGLGAALGPGNRTHIWL FVRGLHGKSGTWWDEHLS EENVPIFKQLVSDDEKAQLASKLCPLKDEPWPIHPWEPGSFRVGLIALKLGMMPLWT

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KDGQKHVVTLQVQDCHVLKYTSKENCNGKMATLSVGGKTVSRFRKATSILEFYRE
LGLPPKQTVKIFNITDNAAIKPGTPLYAAHFRPGQYVDVTAKTIGKGFQGVMMKRWGF
KGQPATHGQTKTHRRPGAVATGDIGRVWPGTKMPGKMGNIYRTEYGLKVWRINTK
HNIIYVNGSVPGHKNCLVKVKDSKLPAYKDLGKNLPFPTYFPDGDDEELPEDLYDEN
VCQPGAPSITFA

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

MRPL3 mitochondrial ribosomal protein L3 [Homo sapiens]

Official Symbol

MRPL3

Synonyms

MRPL3; mitochondrial ribosomal protein L3; RPML3; 39S ribosomal protein L3, mitochondrial; MRL3; L3mt; MRP-L3; mitochondrial 60S ribosomal protein L3; COXPD9;

Gene ID

11222

mRNA Refseq

NM_007208

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Protein Refseq	NP_009139
MIM	607118
UniProt ID	P09001

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