

Recombinant Full Length Human MRPL51 Protein, GST-tagged

Cat. No. MRPL51-6442HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPL51 full-length ORF (AAH00191, 1 a.a. - 128 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	128 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. Pseudogenes corresponding to this gene are found on chromosomes 4p and 21q. [provided by RefSeq
Molecular Mass	39.82 kDa
AA Sequence	MAGNLLSGAGRRLWDWVPLACRSFSLGVPRLIGIRLTLPKPKVVDWRWNEKRAMFGV YDNIGILGNFEKHPKELIRGPIWLRGWKGNELQRCIRKRKMVGSRMFADDLHNLNKR IRYLYKHFNRHGKFR

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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	MRPL51 mitochondrial ribosomal protein L51 [Homo sapiens]
Official Symbol	MRPL51
Synonyms	MRPL51; mitochondrial ribosomal protein L51; mitochondrial ribosomal protein 64 , MRP64; 39S ribosomal protein L51, mitochondrial; bMRP64; CDA09; HSPC241; L51mt; MRP-L51; bMRP-64; mitochondrial ribosomal protein 64; mitochondrial ribosomal protein bMRP64; MRP64;
Gene ID	51258
mRNA Refseq	NM_016497
Protein Refseq	NP_057581
MIM	611855
UniProt ID	Q4U2R6

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