

Recombinant Full Length Human MRPL12 Protein, GST-tagged

Cat. No. MRPL12-6380HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRPL12 full-length ORF (AAH02344, 1 a.a. - 198 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	198 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 which forms homodimers. In prokaryotic ribosomes, two L7/L12 dimers and one L10 protein form the L8 protein complex. [provided by RefSeq]
Molecular Mass	47.52 kDa
AA Sequence	MLPAAARPLWGPCLGLRAAAFRLARRQVPCVCAVRHMRSSGHQRCEALAGAPLDN APKEYPPKIQQLVQDIASLTLLLEISDLNELLKKTLLKIQDVGLVPMGGVMSGAVPAAAA

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	QEAVEEDIPIAKERTHFTVRLTEAKPVDKVKLIKEIKNYIQGINLVQAKKLVESLPQEIK ANVAKAEAEKIKAALEAVGGTVVLE
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	MRPL12 mitochondrial ribosomal protein L12 [Homo sapiens]
Official Symbol	MRPL12
Synonyms	MRPL12; mitochondrial ribosomal protein L12; RPML12; 39S ribosomal protein L12, mitochondrial; MRPL7; MRPL7/L12; MRP-L12; 5c5-2; L12mt; MRP-L31/34; MGC8610; FLJ60124;
Gene ID	6182
mRNA Refseq	NM_002949
Protein Refseq	NP_002940
MIM	602375

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UniProt ID

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