

## Product datasheet for **TP301448L**

### MRPL38 (NM\_032478) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human mitochondrial ribosomal protein L38 (MRPL38), nuclear gene encoding mitochondrial protein, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201448 representing NM_032478 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MPNSDIDLSNLERLEKYRSFDRYRRRAEQEAQAPHWWRTYREYFGEKTDPKKIDIGLPPPKVSRTQQLL  
ERKQAIQELRANVEEERAARLRTASVPLDAVRAEWERTCGPYHKQLAEYYGLYRDLFHGATFVPRVPLH  
VAYAVGEDDLMPVYCGNEVTPTAAQAPVTEAEAGSLWTLTSLDGHLLPEDAEYLHWLLTNIPGNR  
VAEGQVTCPYLPPFPARGSGIHLAFLLFKQDQPIDFSEDARPSPCYQLAQRTRFTFDYKHKHETMTPA  
GLSFFQCRWDDSVTYIFHQLLDMREPVFVFRPPYHPKQKRFPHRQPLRYLDYRDSHEPTYGIY

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	44.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_115867</a>
Locus ID:	64978

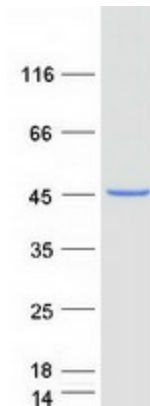


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UniProt ID:	<a href="#">Q96DV4</a>
RefSeq Size:	1907
Cytogenetics:	17q25.1
RefSeq ORF:	1038
Synonyms:	HSPC262; L38MT; MRP-L3; MRP-L38; RPML3

**Summary:** 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. [provided by RefSeq, Jul 2008]

### Product images:



Coomassie blue staining of purified MRPL38 protein (Cat# [TP301448]). The protein was produced from HEK293T cells transfected with MRPL38 cDNA clone (Cat# [RC201448]) using MegaTran 2.0 (Cat# [TT210002]).