

## Product datasheet for **TP303936**

### MRPL43 (NM\_032112) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human mitochondrial ribosomal protein L43 (MRPL43), nuclear gene encoding mitochondrial protein, transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203936 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MTARGTPSRFLASVLHNGLGGRYVQQLQRLSFSVSRDGASSRGAREFVEREVIDFARRNPGWVIYNSRPC CVPRVVAEYLNAGVREESIHCKSVVEISTLVQKLADQSGLDVIRIRKPFHTDNPSIQGQWHPFTNKPTTF RGLRPREVQDPAPAQVQAQ
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	17.7 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_115488</a>
Locus ID:	84545
UniProt ID:	<a href="#">Q8N983</a> , <a href="#">A8K4V4</a>



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RefSeq Size: 1016

Cytogenetics: 10q24.31

RefSeq ORF: 477

Synonyms: bMRP36a; L43mt; MRP-L43

**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. This gene and the gene for a semaphorin class 4 protein (SEMA4G) overlap at map location 10q24.31 and are transcribed in opposite directions. Sequence analysis identified multiple transcript variants encoding at least four different protein isoforms. [provided by RefSeq, Jul 2008]

### Product images:



Coomassie blue staining of purified MRPL43 protein (Cat# TP303936). The protein was produced from HEK293T cells transfected with MRPL43 cDNA clone (Cat# [RC203936]) using MegaTran 2.0 (Cat# [TT210002]).