

## Product datasheet for **TP304255M**

### MRPL53 (NM\_053050) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human mitochondrial ribosomal protein L53 (MRPL53), nuclear gene encoding mitochondrial protein, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204255 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MAAALARLGLRPVKQVRVQFCPEKNVESTRTFLQTVSSEKVRSTNLNCSVIADVVRHDGSEPCVDVLFGD GHRLIMRGAHLTALEMLTAFASHIRARDAAGSGDKPGADTGR  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	11.9 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:	<u><a href="#">NP_444278</a></u>
Locus ID:	116540
UniProt ID:	<u><a href="#">Q96EL3</a></u>
RefSeq Size:	673


[View online »](#)

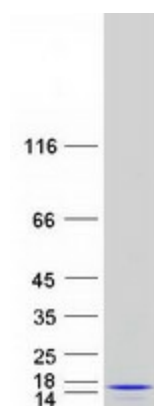
**Cytogenetics:** 2p13.1

**RefSeq ORF:** 336

**Synonyms:** L53MT

**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. A pseudogene corresponding to this gene is found on chromosome 1p. [provided by RefSeq, Jul 2008]

## Product images:



Coomassie blue staining of purified MRPL53 protein (Cat# [TP304255]). The protein was produced from HEK293T cells transfected with MRPL53 cDNA clone (Cat# [RC204255]) using MegaTran 2.0 (Cat# [TT210002]).