

## Product datasheet for **TP309661M**

### MRPL52 (NM\_178336) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human mitochondrial ribosomal protein L52 (MRPL52), nuclear gene encoding mitochondrial protein, transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209661 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MAALGTVLFTGVRRHLHCSAAAWAGGQWRLQQGLAANPSGYGPLTELPDCSYADGRPAPPMKGQLRRKA ER ETFARRVLLSQEMDAGLQAWQLRQQKLQEEQRKQENALKPKGASLKSPLPSQ  <b>TR</b> TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	13.5 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_848026</a></u>
Locus ID:	122704
UniProt ID:	<u><a href="#">Q86TS9</a></u>


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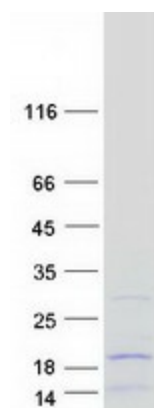
RefSeq Size: 1123

Cytogenetics: 14q11.2

RefSeq ORF: 369

**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 which has no bacterial homolog. Multiple transcript variants encoding different protein isoforms were identified through sequence analysis. [provided by RefSeq, Jul 2008]

### Product images:



Coomassie blue staining of purified MRPL52 protein (Cat# [TP309661]). The protein was produced from HEK293T cells transfected with MRPL52 cDNA clone (Cat# [RC209661]) using MegaTran 2.0 (Cat# [TT210002]).