

## Product datasheet for **TP304786M**

### MRPL46 (NM\_022163) Human Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Recombinant protein of human mitochondrial ribosomal protein L46 (MRPL46), nuclear gene encoding mitochondrial protein, 100 µg |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC204786 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)   |

MAAPVRRTLLGVAGGWRRFERLWAGSLSSRSLALAAAPSSNGSPWRLLGALCLQRPPVWSKPLTPLQEEM  
ASLLQQIEIERSLYSDHELRLDENQRLAKKKADLHDEEDEQDILLAQDLEDMWEQKFLQFKLGARITEA  
DEKNDRTSLNRKLDRLVLLVREKFGDQDVWILPQAEWQPGETLRGTAERTLATLSENNMEAKFLGNAPC  
GHYTFKFPQAMRTESNLGAKVFFFKALLLTGDFSQAGNKGHHVWVTKDELGDYLPKYLAQVRRFVSDL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 31.5 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_071446</a></u>   |
| Locus ID:      | 26589  |



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UniProt ID: [Q9H2W6](#)

RefSeq Size: 1020

Cytogenetics: 15q25.3

RefSeq ORF: 837

Synonyms: C15orf4; LIECG2; P2ECSL

**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 MRPL46 protein (Cat# [TP304786]). The protein was produced from HEK293T cells transfected with MRPL46 cDNA clone (Cat# [RC204786]) using MegaTran 2.0 (Cat# [TT210002]).