

Product datasheet for **TP300031**

MRPS7 (NM_015971) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human mitochondrial ribosomal protein S7 (MRPS7), nuclear gene encoding mitochondrial protein, 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC200031 protein sequence Red =Cloning site Green =Tags(s) |

MVAPAVKVARGWSGLALGVRRVQLPGLTQVRWSRYSPEFKDPLIDKEYYRKPVEELTEEEKYVRELKK
TQLIKAAPAGKTSSVFEDPVISKFTNMMMIGGNKVLARSLMIQTLEAVKRKQFEKYHAASAEQATIERN
PYTIFHQALKNCEPMIGLVPIKGGRFYQVPVPLPDRRRRFLAMKWMITECRDKKHQRTLMPEKLSHKLL
EAFHNQGPVIKRRKHDHLHKMAEANRALAHYRWW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 28 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: | NP_057055 |
| Locus ID: | 51081 |

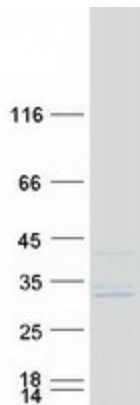


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UniProt ID: [Q9Y2R9](#), [A0A024R8L0](#)
RefSeq Size: 1432
Cytogenetics: 17q25.1
RefSeq ORF: 726
Synonyms: bMRP27a; COXPD34; MRP-S; MRP-S7; RP-S7; RPMS7; S7mt

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 28S subunit protein. In the prokaryotic ribosome, the comparable protein is thought to play an essential role in organizing the 3' domain of the 16 S rRNA in the vicinity of the P- and A-sites. Pseudogenes corresponding to this gene are found on chromosomes 8p and 12p. [provided by RefSeq, Jul 2008]

Product images:



Coomassie blue staining of purified MRPS7 protein (Cat# TP300031). The protein was produced from HEK293T cells transfected with MRPS7 cDNA clone (Cat# [RC200031]) using MegaTran 2.0 (Cat# [TT210002]).