

Product datasheet for **TP300031M**

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, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200031 protein sequence Red =Cloning site Green =Tags(s)
	MVAPAVKVARGWGSLALGVRRVAVLQLPGLTQVRWSRYSPEFKDPLIDKEYYRKPVEELTEEEKYVRELKK TQLIKAAPAGKTSSVFEDPVISKFTNMMMIGGNKVLARSLMIQTLEAVKRKQFEKYHAASAEQATIERN PYTIFHQALKNCEPMIGLVPIKGGFRFYQVPVPLPDRRRRFLAMKWMITECRDKKHQRTLMPEKLSHKLL EAFHNQGPVIKRRKHDLHKMAEANRALAHYRWW
	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:	<u>NP_057055</u>
Locus ID:	51081



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UniProt ID: [Q9Y2R9](#), [A0A024R8L0](#)

RefSeq Size: 1432

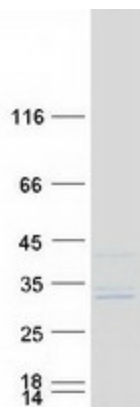
Cytogenetics: 17q25.1

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]).