

Product datasheet for **TP305837**

MRPS16 (NM_016065) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human mitochondrial ribosomal protein S16 (MRPS16), nuclear gene encoding mitochondrial protein, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205837 protein sequence Red =Cloning site Green =Tags(s)

MVHLTLLCKAYRGGHLTIRLALGGCTNRPFYRIVAAHNKCPDGRFVEQLGSYDPLPNSHGKLVALLNL
DRIRHWIGCGAHLSPMEKLLGLAGFFPLHPMMITNAERLRRKRAREVLLASQKTDAAETDTEATET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	15.2 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_057149
Locus ID:	51021
UniProt ID:	Q9Y3D3
RefSeq Size:	2651



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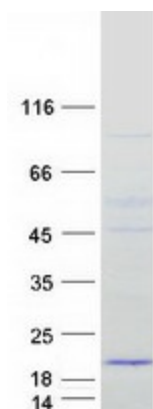
Cytogenetics: 10q22.2

RefSeq ORF: 411

Synonyms: CGI-132; COXPD2; MRP-S16; RPMS16

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 that belongs to the ribosomal protein S16P family. The encoded protein is one of the most highly conserved ribosomal proteins between mammalian and yeast mitochondria. Three pseudogenes (located at 8q21.3, 20q13.32, 22q12-q13.1) for this gene have been described. [provided by RefSeq, Jul 2008]

Product images:



Coomassie blue staining of purified MRPS16 protein (Cat# TP305837). The protein was produced from HEK293T cells transfected with MRPS16 cDNA clone (Cat# [RC205837]) using MegaTran 2.0 (Cat# [TT210002]).