

## Recombinant Human MRPS18B, MYC/DDK-tagged

**Cat. No.** MRPS18B-87H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Human MRPS18B, fused with C-terminal MYC/DDK, was expressed in HEK293 Cells.

**Species**                      Human

**Source**                        HEK293

**Description**

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 S18P family. The encoded protein is one of three that has significant sequence similarity to bacterial S18 proteins. The primary sequences of the three human mitochondrial S18 proteins are no more closely related to each other than they are to the prokaryotic S18 proteins. Pseudogenes corresponding to this gene are found on chromosomes 1q and 2q.

**Molecular Mass**            29.2 kDa

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MRPS18B mitochondrial ribosomal protein S18B [ Homo sapiens(human) ]
<b>Official Symbol</b>	MRPS18B
<b>Synonyms</b>	MRPS18B; PTD017; S18amt; C6orf14; HSPC183; MRPS18-2; HumanS18a; MRP-S18-2; mitochondrial ribosomal protein S18B; 28S ribosomal protein S18b, mitochondrial; S18mt-b; mrps18-b; MRP-S18-b; mitochondrial ribosomal protein S18-2; 28S ribosomal protein S18-2, mitochondrial
<b>Gene ID</b>	28973
<b>mRNA Refseq</b>	NM_014046
<b>Protein Refseq</b>	NP_054765
<b>MIM</b>	611982
<b>UniProt ID</b>	Q9Y676
<b>Chromosome Location</b>	6p21.3
<b>Pathway</b>	Viral carcinogenesis

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



**Function**

structural constituent of ribosome

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA