

## Product datasheet for TP501223

### Mrpl43 (NM\_053164) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse mitochondrial ribosomal protein L43 (Mrpl43), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR201223 representing NM_053164 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MTGRGTSSRFLTSVLHNGLGRYVQQLQRLSLSLSRDAPSSRGAREFVEREVTDFARRNPGVVVYVNP AMPRIVAAYLNGAVREENVNSKSVVEIKSLVQKLADQSGLDVIRIRKPFHTDNPSIQGQWHPFTNKRTAL HGLRPRELRDSAPASMQAQ
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-MYC/DDK
Predicted MW:	17.9 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
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 after receiving vials.
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_444394</a></u>
Locus ID:	94067
UniProt ID:	<u><a href="#">Q5RL20</a></u>
RefSeq Size:	1213
Cytogenetics:	19 C3



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RefSeq ORF: 477

Synonyms: 4930442D21Rik; bMRP; bMRP36a

**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]