

Product datasheet for PH319175

MRPL42 (NM_014050) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MRPL42 MS Standard C13 and N15-labeled recombinant protein (NP_054769)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219175
Predicted MW:	16.7 kDa
Protein Sequence:	>RC219175 protein sequence Red =Cloning site Green =Tags(s) MAVAAVKWMKRTILKHLFPVQNGALYCVCHKSTYSPLPDDYNCNVELALTS DGRTIVCYHPSVDIPYE HTKPIPRPDPVHNNEETHDQVLKTRLEEKVEHLEEGPMIEQLSKMFFTCKHRWYPHGRYHRCRKNLNPPK DR TR TRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_054769
RefSeq Size:	3139
RefSeq ORF:	426
Synonyms:	HSPC204; L31MT; L42MT; MRP-L31; MRP-L42; MRP-S32; MRPL31; MRPS32; PTD007; RPML31; S32MT
Locus ID:	28977
UniProt ID:	Q9Y6G3 , A0A024RBG3

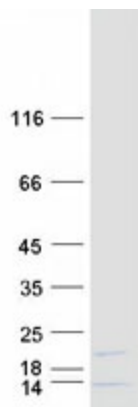


[View online »](#)

Cytogenetics: 12q22

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 protein identified as belonging to both the 28S and the 39S subunits. Alternative splicing results in multiple transcript variants. Pseudogenes corresponding to this gene are found on chromosomes 4q, 6p, 6q, 7p, and 15q. [provided by RefSeq, May 2011]

Product images:



Coomassie blue staining of purified MRPL42 protein (Cat# [TP319175]). The protein was produced from HEK293T cells transfected with MRPL42 cDNA clone (Cat# [RC219175]) using MegaTran 2.0 (Cat# [TT210002]).