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Product datasheet for PH303424

MRPS22 (NM_020191) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MRPS22 MS Standard C13 and N15-labeled recombinant protein (NP_064576)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203424
Predicted MW:	41.3 kDa
Protein Sequence:	>RC203424 protein sequence Red=Cloning site Green=Tags(s) MAPLGTTVLLWSLLRSSPGVERVCFRARIQPWHGGLLQPLPCSFEMGLPRRRFSSEAAESGSPETKKPTF MDEEVQSILTKMTGLNLQKTFKPAIQELKPPTYKLMTQAQLEEATRQAVEAAKVRLKMPPVLEERVPIND VLAEDKILEGTETTKYVFTDISYSIPHRERFIVVREPSGTLRKASWEERDRMIQVYFPKEGRKILTPIIF KEENLRTMYSQDRHVDVLNLCFAQFEPDSTEYIKVHHKTYEDIDKRGKYDLLRSTRYFGGMVWYFVNNKK IDGLLIDQIQRDLIDDATNLVQLYHVLHPDGQSAQGAKDQAAEGINLIKVFAKTEAQKGAYIELTLQTYQ EALSRHSAAS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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_064576
RefSeq Size:	1155
RefSeq ORF:	1080
Synonyms:	C3orf5; COXPD5; GIBT; GK002; MRP-S22; ODG7; RPMS22
Locus ID:	56945

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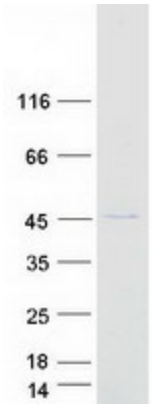
UniProt ID: P82650

Cytogenetics: 3q23

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 does not seem to have a counterpart in prokaryotic and fungal-mitochondrial ribosomes. This gene lies telomeric of and is transcribed in the opposite direction from the forkhead box L2 gene. A pseudogene corresponding to this gene is found on chromosome Xq. [provided by RefSeq, Jul 2008]

Product images:



Coomassie blue staining of purified MRPS22 protein (Cat# [TP303424]). The protein was produced from HEK293T cells transfected with MRPS22 cDNA clone (Cat# [RC203424]) using MegaTran 2.0 (Cat# [TT210002]).