OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for PH309661

MRPL52 (NM_178336) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MRPL52 MS Standard C13 and N15-labeled recombinant protein (NP_848026)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209661
Predicted MW:	13.6 kDa
Protein Sequence:	>RC209661 protein sequence Red=Cloning site Green=Tags(s) MAALGTVLFTGVRRLHCSAAAWAGGQWRLQQGLAANPSGYGPLTELPDCSYADGRPAPPMKGQLRRKAER ETFARRVVLLSQEMDAGLQAWQLRQQKLQEEQRKQENALKPKGASLKSPLPSQ 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_848026
RefSeq Size:	1123
RefSeq ORF:	369
Locus ID:	122704
UniProt ID:	Q86TS9
Cytogenetics:	14q11.2

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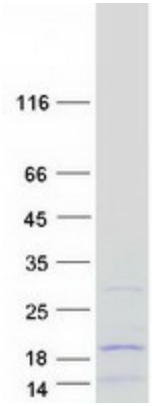
Summary: Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic 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 which has no bacterial homolog. Multiple transcript variants encoding different protein isoforms were identified through sequence analysis. [provided by RefSeq, Jul 2008]

Product images:



Coomassie blue staining of purified MRPL52 protein (Cat# [TP309661]). The protein was produced from HEK293T cells transfected with MRPL52 cDNA clone (Cat# [RC209661]) using MegaTran 2.0 (Cat# [TT210002]).