

OriGene Technologies, Inc.

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Product datasheet for PH300031

MRPS7 (NM_015971) Human Mass Spec Standard

Product data:

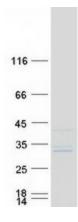
Product Type:	Mass Spec Standards
Description:	MRPS7 MS Standard C13 and N15-labeled recombinant protein (NP_057055)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200031
Predicted MW:	28.2 kDa
Protein Sequence:	<pre>>RC200031 protein sequence Red=Cloning site Green=Tags(s)</pre>
	MVAPAVKVARGWSGLALGVRRAVLQLPGLTQVRWSRYSPEFKDPLIDKEYYRKPVEELTEEEKYVRELKK TQLIKAAPAGKTSSVFEDPVISKFTNMMMIGGNKVLARSLMIQTLEAVKRKQFEKYHAASAEEQATIERN PYTIFHQALKNCEPMIGLVPILKGGRFYQVPVPLPDRRRRFLAMKWMITECRDKKHQRTLMPEKLSHKLL EAFHNQGPVIKRKHDLHKMAEANRALAHYRWW
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 μ g/ μ L 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:	<u>NP 057055</u>
RefSeq Size:	1432
RefSeq ORF:	726
Synonyms:	bMRP27a; COXPD34; MRP-S; MRP-S7; RP-S7; RPMS7; S7mt
Locus ID:	51081
UniProt ID:	<u>Q9Y2R9, A0A024R8L0</u>



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	MRPS7 (NM_015971) Human Mass Spec Standard – PH300031
Cytogenetics:	17q25.1
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. In the prokaryotic ribosome, the comparable protein is thought to play an essential role in organizing the 3' domain of the 16 S rRNA in the vicinity of the P- and A-sites. Pseudogenes corresponding to this gene are found on chromosomes 8p and 12p. [provided by RefSeq, Jul 2008]

Product images:



Coomassie blue staining of purified MRPS7 protein (Cat# [TP300031]). The protein was produced from HEK293T cells transfected with MRPS7 cDNA clone (Cat# [RC200031]) using MegaTran 2.0 (Cat# [TT210002]).

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