

Product datasheet for PH320428

MRPL30 (NM_145213) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MRPL30 MS Standard C13 and N15-labeled recombinant protein (NP_660214)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC220428
Predicted MW:	18.5 kDa
Protein Sequence:	>RC220428 protein sequence Red=Cloning site Green=Tags(s) MAGILRLVVQWPPGRLQVTKGVESLICTDWIRHKFTRSRIPEKVFQASPEDHEKYGGDPQNPVKLHIVT RIKSTRRRPYWEKDIKMLGLEKAHTPQVHKNIPIVNAKLVVVKHLIRIKPLKLPQGLPAEENMSNTCLK STGELVVQWHLKPVEQKAHES TRTRPLEQKLI 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- 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_660214
RefSeq Size:	1172
RefSeq ORF:	483
Synonyms:	FLJ44438; MGC3314; MGC24095; mitochondrial ribosomal protein L30; MRP-L28; MRPL28; OTTHUMP00000161222; RPML28
Locus ID:	51263
UniProt ID:	Q8TCC3

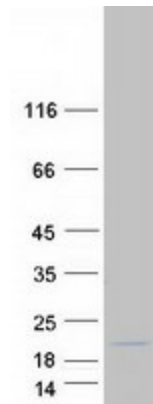


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Cytogenetics: 2q11.2

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. Alternative splicing results in multiple transcript variants. Pseudogenes corresponding to this gene are found on chromosomes 6p and 12p. Read-through transcription also exists between this gene and the neighboring upstream lipoyltransferase 1 (LIPT1) gene. [provided by RefSeq, Mar 2011]

Product images:



Coomassie blue staining of purified MRPL30 protein (Cat# [TP320428]). The protein was produced from HEK293T cells transfected with MRPL30 cDNA clone (Cat# [RC220428]) using MegaTran 2.0 (Cat# [TT210002]).