

## Product datasheet for PH304221

### MTRF1L (NM\_019041) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	MTRF1L MS Standard C13 and N15-labeled recombinant protein (NP_061914)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204221
Predicted MW:	43.5 kDa
Protein Sequence:	>RC204221 protein sequence Red=Cloning site Green=Tags(s)
	MRSRVLWGAARWLWPRRAVGPARRPLSSGSPLEELFARGGPLRTFLERQAGSEAHLKVRPELLAVIKL LNEKEQELRETEHLLHDENEDLRKLAENEITLCQKEITQLKHQIILLVPSEETDENDLILEVTAGVGGQ EAMLFTSEIFDMYQQYAAFKRWHFETLEYFPSELGGLRHASASIGGSEAYRHMKFEGGVHRVQRPKTEK QGRVHTSTMTVAILPQPTTEINLVINPKDLRIDTKRASGAGGQHVNTTDSAVRIVHLPTGVVSECQQERSQ LKNKELAMTKLRAKLYSMHLEEEINKRQNARKIQIGSKGRSEKIRTYNFPQNRVTDHRINKTLHDLETFM QGDYLLDELVQSLKEYADYESLVEIISQKV
	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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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><a href="#">NP_061914</a></u>
RefSeq Size:	3815
RefSeq ORF:	1140
Synonyms:	HMRF1L; MRF1L; mtRF1a
Locus ID:	54516



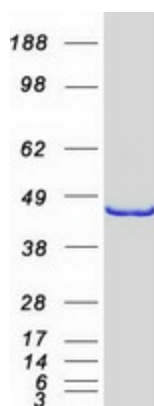
[View online »](#)

UniProt ID: [Q9UGC7](#)

Cytogenetics: 6q25.2

**Summary:** The protein encoded by this gene plays a role in mitochondrial translation termination, and is thought to be a release factor that is involved in the dissociation of the complete protein from the final tRNA, the ribosome, and the cognate mRNA. This protein acts upon UAA and UAG stop codons, but has no in vitro activity against UGA, which encodes tryptophan in human mitochondrion, or, the mitochondrial non-cognate stop codons, AGA and AGG. This protein shares sequence similarity to bacterial release factors. Pseudogenes of this gene are found on chromosomes 4, 8, and 11. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]

### Product images:



Coomassie blue staining of purified MTRF1L protein (Cat# [TP304221]). The protein was produced from HEK293T cells transfected with MTRF1L cDNA clone (Cat# [RC204221]) using MegaTran 2.0 (Cat# [TT210002]).