

## Product datasheet for PH301683

### TFB2M (NM\_022366) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	TFB2M MS Standard C13 and N15-labeled recombinant protein (NP_071761)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201683
Predicted MW:	45.3 kDa
Protein Sequence:	>RC201683 protein sequence Red=Cloning site Green=Tags(s)

MWIPVVGLPRRLRLSALAGAGRFCILGSEAATRKHLPARNHCGLSDSSPQLWPEPDFRNPFRKASKASLD  
FKRYVTDRLAETLAQIYLGKPSRPPHLLLECNPGGILTQALLEAGAKVVALESDKTFIPHLESGLKNL  
DGKLRVIHCDFKLDPRSGGVIKPPAMSSRGLFKNLGEIAPWTADIPLKVVGMFSPRGEKRALWKLAYD  
LYSCTSIYKFGRIEVNMFIDGEKEFKLMADPGNPDLYHVLVSIWQLACEIKVLHMEPWSSFDIYTRKGPL  
ENPKRRELLDQLQQLYLIQMIPRQNLFTKNLTPMNYNIFHLLKHCFGRRSATVIDHLRSLTPLDARDI  
LMQIGKQEDEKVVNMHPQDFKTLFETIERSKDCAYKWL YDETLDR

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>NP_071761</u>
RefSeq Size:	1799
RefSeq ORF:	1188
Synonyms:	Hkp1; mtTFB2
Locus ID:	64216



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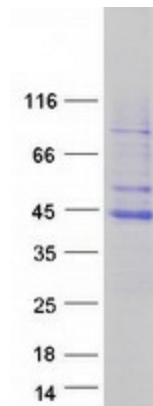
UniProt ID: [Q9H5Q4](#)

Cytogenetics: 1q44

**Summary:** S-adenosyl-L-methionine-dependent methyltransferase which specifically dimethylates mitochondrial 12S rRNA at the conserved stem loop. Also required for basal transcription of mitochondrial DNA, probably via its interaction with POLRMT and TFAM. Stimulates transcription independently of the methyltransferase activity. Compared to TFB1M, it activates transcription of mitochondrial DNA more efficiently, while it has less methyltransferase activity.[UniProtKB/Swiss-Prot Function]

**Protein Families:** Transcription Factors

### Product images:



Coomassie blue staining of purified TFB2M protein (Cat# [TP301683]). The protein was produced from HEK293T cells transfected with TFB2M cDNA clone (Cat# [RC201683]) using MegaTran 2.0 (Cat# [TT210002]).