

## Product datasheet for PH300934

### MOV10 (NM\_020963) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	MOV10 MS Standard C13 and N15-labeled recombinant protein (NP_066014)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200934
Predicted MW:	113.7 kDa
Protein Sequence:	>RC200934 protein sequence Red=Cloning site Green=Tags(s)

MPSKFSCRQLREAGQCFESFLVVRGLDMETDRERLRTIYNRDFKISFGTPAPGFSMSLYGMKIANLAYVT  
KTRVRFRLDRWADVRFPEKRRMKLGSDISKHHKSLAKIFYDRAEYLHGKHGVDVEVQGPHEARDGQLL  
IRLDLNRKEVLTLLRNGGTQSVTLTHLFPLCRTPQFAFYNEQELPCPLGPGECYELHVHCKTSFVGYF  
PATVLWELLGPGESGSEAGTFYIARFLAAVAHSPLAAQLKPMTPFKRTRITGNPVVTVNREEGERPDRA  
KGYDLELSMAGTYPPRRLRQLLPMLLQGTSTFTAPKEIAEIKAQLETALKWRNYEVKLRLLHLEELQ  
MEHDIRHYDLESVPMTWDPVDQNPRLTLEVPGVTESRPSVLRGDHLFALLSSEHQEDPITYKGFVHKV  
ELDRVKLSFSMSLLSRFVDGLTFKVNFTFNRQPLRVQHRALELTGRWLLWPMLFPVAPRDVPLLPDVKL  
KLYDRSLESNPEQLQAMRHIVTGTTRPAPYIIFGPPGTGKTVTLVEAIKQVVKHLPKAHILACAPNSNGA  
DLLCQRLRVHLPSSIYRLLAPSRDIRMVPEDIKPCCNWDACKGEYVFPKPKKLQEYRVLITLITAGRLV  
SAQFPIDHFTHFIDEAGHCMEPELSVAIAGLMEVKETGDPGGQLVLAGDPRQLGPVLRSPLTQKHGLGY  
SLLERLLTYNSLYKKGPDGYPQFITKLLRNYRSHPTILDIPNQLYYEGELQACADVDRERFCRWAGLP  
RQGFPIIFHGMGKDEREGNSPFFNPEEAATVSYLKLLAPSSKKGKARLSPRSVGVISPYRKQVEKI  
RYCITKLDRELRLDDIKDLKVGSVVEEFQGQERSVILISTVRSSQSFVQLDLDFNLGFLKNPKRFNAVAVT  
RAKALLIIVGNPLLLGHDPDWKVFLEFCKENGGYTGCFFPAKLDLQQGQNLQGLSKLSPSTSGPHSHDY  
LPQEREGEGLSLQVEPEWRNEL

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.



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Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_066014</a>
RefSeq Size:	3767
RefSeq ORF:	3009
Synonyms:	fSAP113; gb110
Locus ID:	4343
UniProt ID:	<a href="#">Q9HCE1</a>
Cytogenetics:	1p13.2
Summary:	5' to 3' RNA helicase contributing to UPF1 mRNA target degradation by translocation along 3' UTRs (PubMed:24726324). Required for microRNA (miRNA)-mediated gene silencing by the RNA-induced silencing complex (RISC). Required for both miRNA-mediated translational repression and miRNA-mediated cleavage of complementary mRNAs by RISC (PubMed:16289642, PubMed:17507929, PubMed:22791714). In cooperation with FMR1, regulates miRNA-mediated translational repression by AGO2 (PubMed:25464849). Restricts retrotransposition of long interspersed element-1 (LINE-1) in cooperation with TUT4 and TUT7 counteracting the RNA chaperone activity of L1RE1 (PubMed:30122351, PubMed:23093941). Facilitates LINE-1 uridylation by TUT4 and TUT7 (PubMed:30122351). Required for embryonic viability and for normal central nervous system development and function. Plays two critical roles in early brain development: suppresses retroelements in the nucleus by directly inhibiting cDNA synthesis, while regulates cytoskeletal mRNAs to influence neurite outgrowth in the cytosol (By similarity). May function as a messenger ribonucleoprotein (mRNP) clearance factor (PubMed:24726324).[UniProtKB/Swiss-Prot Function]

## Product images:



Coomassie blue staining of purified MOV10 protein (Cat# [TP300934]). The protein was produced from HEK293T cells transfected with MOV10 cDNA clone (Cat# [RC200934]) using MegaTran 2.0 (Cat# [TT210002]).