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Product datasheet for TP300934

MOV10 (NM_020963) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human Mov10, Moloney leukemia virus 10, homolog (mouse) (MOV10), transcript variant 1, 20 μg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200934 protein sequence Red=Cloning site Green=Tags(s)
	MPSKFSCRQLREAGQCFESFLVVRGLDMETDRERLRTIYNRDFKISFGTPAPGFSSMLYGMKIANLAYVT KTRVRFFRLDRWADVRFPEKRRMKLGSDISKHHKSLLAKIFYDRAEYLHGKHGVDVEVQGPHEARDGQLL IRLDLNRKEVLTLRLRNGGTQSVTLTHLFPLCRTPQFAFYNEDQELPCPLGPGECYELHVHCKTSFVGYF PATVLWELLGPGESGSEGAGTFYIARFLAAVAHSPLAAQLKPMTPFKRTRITGNPVVTNRIEEGERPDRA KGYDLELSMALGTYYPPPRLRQLLPMLLQGTSIFTAPKEIAEIKAQLETALKWRNYEVKLRLLLHLEELQ MEHDIRHYDLESVPMTWDPVDQNPRLLTLEVPGVTESRPSVLRGDHLFALLSSETHQEDPITYKGFVHKV ELDRVKLSFSMSLLSRFVDGLTFKVNFTFNRQPLRVQHRALELTGRWLLWPMLFPVAPRDVPLLPSDVKL KLYDRSLESNPEQLQAMRHIVTGTTRPAPYIIFGPPGTGKTVTLVEAIKQVVKHLPKAHILACAPSNSGA DLLCQRLRVHLPSSIYRLLAPSRDIRMVPEDIKPCCNWDAKKGEYVFPAKKKLQEYRVLITTLITAGRLV SAQFPIDHFTHIFIDEAGHCMEPESLVAIAGLMEVKETGDPGGQLVLAGDPRQLGPVLRSPLTQKHGLGY SLLERLLTYNSLYKKGPDGYDPQFITKLLRNYRSHPTILDIPNQLYYEGELQACADVVDRERFCRWAGLP RQGFPIIFHGVMGKDEREGNSPSFFNPEEAATVTSYLKLLLAPSSKKGKARLSPRSVGVISPYRKQVEKI RYCITKLDRELRGLDDIKDLKVGSVEEFQGQERSVILISTVRSSQSFVQLDLDFNLGFLKNPKRFNVAVT RAKALLIIVGNPLLLGHDPDWKVFLEFCKENGGYTGCPFPAKLDLQQGQNLLQGLSKLSPSTSGPHSHDY LPQEREGEGGLSLQVEPEWRNEL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	113.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

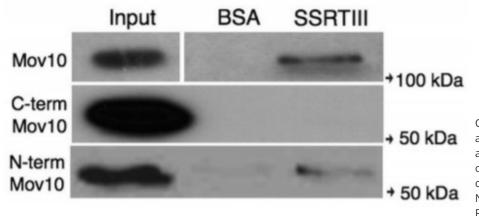


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	MOV10 (NM_020963) Human Recombinant Protein – TP300934
Bioactivity:	Binding assay (PMID: <u>28662698</u>) In vitro reverse transcription assay (PMID: <u>28662698</u>)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP 066014</u>
Locus ID:	4343
UniProt ID:	Q9HCE1
RefSeq Size:	3767
Cytogenetics:	1p13.2
RefSeq ORF:	3009
Synonyms:	fSAP113; gb110
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 chaperonne 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]

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Product images:



Capture assay with wild-type (WT), C-terminal, and N-terminal of Mov10 (OriGene TP300934), and SuperScript III reverse transcriptase (SSRTIII) or bovine serum albumin (BSA) covalently coupled to beads indicates the binding of Mov10 N-terminal to SSRTIII. Figure cited from BMC Biol, PMID: 28662698

SSRTIII	1	+	+	+		+	-
Mov10	1:1			+	+		-
Mov10	1:0.3		+		-	-	
FMRP	1:1		-	-	-	+	+
	1.100	1000 States 1 1 1 1 1			Contraction of the	CONSTRACT	- Constanting
mL1T _F Prrc2b							anne.

Representative gel images of the reverse transcriptase assay set up as shown in the table; SuperScript III reverse transcriptase (SSRTIII) was preincubated with the indicated concentrations of purified Mov10 (OriGene TP300934) or human purified recombinant Fmrp as a control, followed by RT-PCR of Prrc2b, L1 (mL1Tf), Gapdh RNAs bound by Mov10 or Fmrp. The addition of Mov10 blocked the reverse transcription of both L1 RNA and Prrc2b RNA; but only partially inhibited the reverse transcription of the Gapdh transcript, which is not bound by Mov10. Figure cited from BMC Biol, PMID: 28662698

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116	_	-	
66	_	-	
45	_	-	
35	-	-	
25	_	-	
18	_	-	
14	_	-	

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]).

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