

Active Recombinant Full Length Human MOV10 Protein, C-Flag-tagged

Cat. No. MOV10-378HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MOV10 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Enables 5'-3' RNA helicase activity and RNA binding activity. Involved in defense response to virus; negative regulation of transposition, RNA-mediated; and posttranscriptional regulation of gene expression. Located in P-body and cytosol. Implicated in hypertension.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Binding assay In vitro reverse transcription assay
Molecular Mass	113.5 kDa
AA Sequence	MPSKFSCRQLREAGQCFESFLVVRGLDMETDRERLRTIYNRDFKISFGTPAPGFSS MLYGMKIANLAYVT KTRVRFFRLDRWADVRFPEKRRMKLGSDISKHHKSLLAKIFYD RAEYLHGKHGVDVEVQGPHEARDGQLL IRLDLNRKEVLTLLRLNNGGTQSVTLTHLF PLCRTPQFAFYNEDQELPCPLGPGEYELHVHCKTSFVGYP PATVLWELLGPGES GSEGAGTFYIARFLAAVAHSPLAAQLKPMTPFKRTRITGNPVVTNRIEEGERPDRA K

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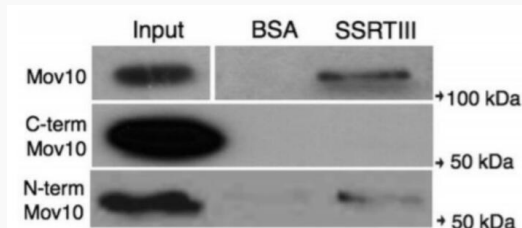
 45-1 Ramsey Road, Shirley, NY 11967, USA

GYDLELSMALGTYYPPLRLRQLLPMLLQGTSIFTAPKEIAEIKAQLETALKWRNYEVK
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 HLFALLSSETHQEDPITYKGFVHKV ELDRVKLSFSMSLLSRFVDGLTFKVNFTFNKQ
 PLRVQHRALELTGRWLLWPMLEFPVAPRDVPLLPSPDKL KLYDRSLESNPEQLQAM
 RHIVTGTTRPAPYIIFGPPGTGKTVTLVEAIKQVVKHLPKAHILACAPSNSSGA DLLCQ
 RLRVHLPSSYRLLAPSRDIRMVPEDIKPCCNWDAAKKGEYVFPAAKKLQEYRVLITLI
 TAGRLV SAQFPIDHFTIFIDEAGHCMEPELVAIAGLMEVKETGDPGGQLVLGDP
 RQLGPVLRSPLTQKHGLGY SLLERLLTYNSLYKKGPDGYDPQFITKLLRNYRSHPTI
 LDIPNQLYYEGELQACADVDRERFCRWAGLP RQGFPIIFHGVMGKDEREGNSPSF
 FNPEEAATVTSYKLLAPSSKKGKARLSRPSVGVISPYRKQVEKI RYCITKLDRELK
 GLDDIKDLKVGSVVEEFQGGQERSVILISTVRSSQSFSVQLDLDFNLGFLKNPKRFNVAVT
 RAKALLIIVGNPLLLGHDPDWKVFLEFCKENGGYTGCFFPAKLDLQQGQNLLQGLSK
 LSPSTSGPHSHDY
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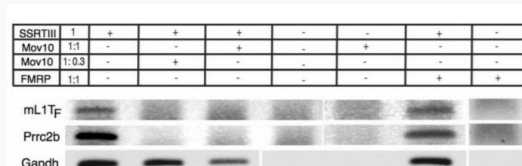
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

Gene Name	MOV10 Mov10 RISC complex RNA helicase [Homo sapiens (human)]
Official Symbol	MOV10
Synonyms	gb110; fSAP113
Gene ID	4343
mRNA Refseq	NM_020963.5
Protein Refseq	NP_066014.1
MIM	610742
UniProt ID	Q9HCE1



Capture assay with wild-type (WT), C-terminal, and N-terminal of Mov10, and SuperScript III reverse transcriptase (SSRTIII) or bovine serum albumin (BSA) covalently coupled to beads indicates the binding of Mov10 N-terminal to SSRTIII.

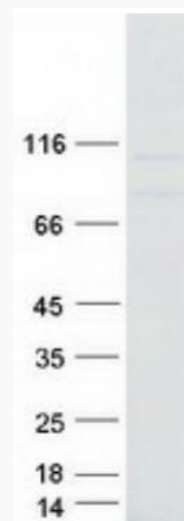


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Representative gel images of the reverse transcriptase assay set up as shown in the table; SuperScript III reverse transcriptase (SSRTIII) was preincubated with the indicated concentrations of purified Mov10 or human purified recombinant Fmrp as a 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.



Coomassie blue staining of purified MOV10 protein.