

# Recombinant Human MOV10 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** MOV10-1865H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | MOV10 MS Standard C13 and N15-labeled recombinant protein (NP_066014) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | 5' to 3' RNA helicase contributing to UPF1 mRNA target degradation by translocation along 3' UTRs. 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). In cooperation with FMR1, regulates miRNA-mediated translational repression by AGO2. Restricts retrotransposition of long interspersed element-1 (LINE-1) in cooperation with TUT4 and TUT7 counteracting the RNA chaperonne activity of L1RE1. Facilitates LINE-1 uridylation by TUT4 and TUT7. 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. May function as a messenger ribonucleoprotein (mRNP) clearance factor. Exhibits antiviral activity against dengue virus (DENV). |
| <b>Molecular Mass</b>   | 113.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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**AA Sequence**

MPSKFSCRQLREAGQCFESFLVVRGLDMETDRERLRTIYNRDFKISFGTPAPGFSS  
 MLYGMKIANLAYVTKTRVRRFRLDRWADVRFPEKRRMKLGSDISKHHKSLLAKIFYD  
 RAEYLHGKHGVDVEVQGPHEARDGQLLIRLDLNRKEVLTLLRNGGTQSVTLTHLF  
 PLCRTPQFAFYNEQELPCPLPGGECYELHVHCKTSFVGYPATVLWELLGPGESG  
 SEGAGTFYIARFLAAVAHSPLAAQLKPMTPFKRTRITGNPVVTNRIEEGERPDRAKG  
 YDLELSMALGTYYPPRLRQLLPMLLQGTSIFTAPKEIAEIKAQLETALKWRNYEVKL  
 RLLHLEELQMEHDIRHYDLESVPMTWDPVDQNPRLTLEVPGVTESRPSVLRGDH  
 LFALLSSETHQEDPITYKGFVHKVELDRVKLSFSMSLLSRFVDGLTFKVNFTFNRQPL  
 RVQHRALELTGRWLLWPMLFPVAPRDVPLLPSDVKLKLYDRSLESNPEQLQAMRHI  
 VTGTTRPAPYIIFGPPGTGKTVTLVEAIKQVVKHLPKAHILACAPSNSGADLLCQRLRV  
 HLPSSYRLLAPSRDIRMVPEDIKCCNWDAKKGEYVFPAAKKKLQEYRVLITTLITAGR  
 LVSAQFPIDHFTIFIDEAGHCMEPESLVAIAGLMEVKETGDPGGQLVLAGDPRQLG  
 PVLRSPLTQKHGLGYSLLERLLTYNSLYKKGPDGYDPQFITKLLRNYRSHPTILDIPN  
 QLYYEGELQACADVDRERFCRWAGLPRQGFPFIIFHGVMGKDEREGNSPSFFNPE  
 EAATVTSYLKLLLAPSSKKGKARLSPRSVGVISPYRKQVEKIRYCITKLDRELRLDDI  
 KDLKVGSVVEEFQGGQERSVILISTVRSSQSFSVQLDLDFNLGFLKNPKRFNVAVTRAKA  
 LLIIVGNPLLLGHDPDWKVFLEFCKENGGYTGCFFPAKLDLQQGQNLQGLSKLSPS  
 TSGPHSHDYLPQEREGGGLSLQVEPEWRNELTRTRPLEQKLISEEDLAANDILDYK  
 DDDDKV

**Purity**

> 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability**

Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage**

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration**

50 µg/mL as determined by BCA

**Storage Buffer**

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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## GENE INFORMATION

**Gene Name** MOV10 Mov10 RISC complex RNA helicase [ Homo sapiens (human) ]

**Official Symbol** MOV10

**Synonyms** MOV10; Mov10, Moloney leukemia virus 10, homolog (mouse); Mov10 (Moloney leukemia virus 10, mouse) homolog; putative helicase MOV-10; fSAP113; functional spliceosome associated protein 113; gb110; MGC2948; moloney leukemia virus 10 protein; functional spliceosome-associated protein 113; FLJ32791; KIAA1631; DKFZp667O1423;

**Gene ID** 4343

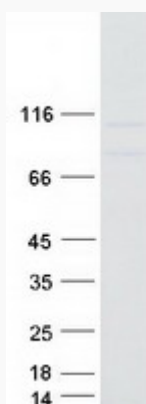
**mRNA Refseq** NM\_020963

**Protein Refseq** NP\_066014

**MIM** 610742

**UniProt ID** Q9HCE1

### SDS-PAGE



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