

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

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

SPECIFICATION

Product Overview	MOV10 MS Standard C13 and N15-labeled recombinant protein (NP_066014) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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).
Molecular Mass	113.7 kDa

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AA Sequence

MPSKFSCRQLREAGQCFESFLVVRGLDMETDRERLRTIYNRDFKISFGTPAPGFSS
 MLYGMKIANLAYVTKTRVRRFRLDRWADVRFPEKRRMKLGSDISKHHKSLLAKIFYD
 RAEYLHGKHGVDVEVQGPHEARDGQLLIRLDLNRKEVLTLLRNGGTQSVTLTHLF
 PLCRTPQFAFYNEQELPCPLPGGECYELHVHCKTSFVGYPATVLWELLGPGESG
 SEGAGTFYIARFLAAVAHSPLAAQLKPMTPFKRTRITGNPVVTNRIEEGERPDRAKG
 YDLELSMALGTYYPPRRLRQLLPMLLQGTSIFTAPKEIAEIKAQLETALKWRNYEVKL
 RLLLHLEELQMEHDIRHYDLESVPMTWDPVDQNPRLLTLEVPGVTESRPSVLRGDH
 LFALLSSETHQEDPITYKGFVHKVELDRVKLSFSMSLLSRFVDGLTFKVNFTFNRQPL
 RVQHRALELTGRWLLWPMLFPVAPRDVPLLPSDVKLKLYDRSLESNPEQLQAMRHI
 VTGTTRPAPYIIFGPPGTGKTVTLVEAIKQVVKHLPKAHILACAPSNSGADLLCQRLRV
 HLPSSYRLLAPSRDIRMVPEDIKPCCNWDAKKGEYVFPAAKKKLQEYRVLITTLITAGR
 LVSAQFPIDHFTHFIDEAGHCMEPESLVAIAGLMEVKETGDPGGQLVLAGDPRQLG
 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

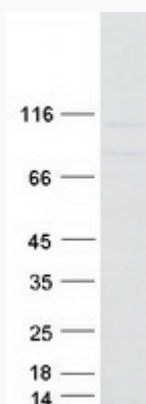
mRNA Refseq NM_020963

Protein Refseq NP_066014

MIM 610742

UniProt ID Q9HCE1

SDS-PAGE



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