

Recombinant Mouse Mov10 Protein, Myc/DDK-tagged

Cat. No. Mov10-4121M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length Mov10 RISC complex RNA helicase (Mov10), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Probable RNA helicase. Required for 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.
Molecular Mass	114 kDa
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

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Mov10 Mov10 RISC complex RNA helicase [*Mus musculus* (house mouse)]

Official Symbol [Mov10](#)

Synonyms MOV10; Moloney leukemia virus 10; putative helicase MOV-10; moloney leukemia virus 10 protein; C77703; Mov-10

Gene ID [17454](#)

mRNA Refseq [NM_001163441](#)

Protein Refseq [NP_001156913](#)

UniProt ID [P23249](#)

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