

Product datasheet for **MC206654**

Mov10 (BC053743) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mov10 (BC053743) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mov10
Synonyms: C77703; Mov-10
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC053743
GGAGAAGGTGGCTGGCCGGAGCAGACGTCAGAGGTAGGGGGCTTTTCCCCTTTGCACCCTCACCCAGAC
CAGCCAACTCTAAACCGCGGCGGCGACTTTCAGTTTCATTTCCGGGACCCTCCTGCCTGGCCCGCAGCC
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TCCAACCTCAGGGGCTGACCTCCTCTGTCTAGCGGGTCCGGGTCCACCTGCCAGCTCCATCTACCGTCTCC
TGGCCCCCAGCAGGGACATCCGAATGGTGCCTGAGGACATTAAGACCTGCTGTAACCTGGGATGCTAAGAA
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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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- Restriction Sites:** EcoRI-NotI
- ACCN:** BC053743
- Insert Size:** 3015 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
- RefSeq:** [BC053743](#), [AAH53743](#)
- RefSeq Size:** 3535 bp
- RefSeq ORF:** 3015 bp

Locus ID: 17454

Cytogenetics: 3 F2.2

Gene Summary: 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 (By similarity). In cooperation with FMR1, regulates miRNA-mediated translational repression by AGO2 (By similarity). Restricts retrotransposition of long interspersed element-1 (LINE-1) in cooperation with TUT4 and TUT7 counteracting the RNA chaperone activity of L1RE1. Facilitates LINE-1 uridylation by TUT4 and TUT7 (By similarity). 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 (PubMed:28662698). May function as a messenger ribonucleoprotein (mRNP) clearance factor (By similarity).[UniProtKB/Swiss-Prot Function]