

Product datasheet for **MR211430**

Mov10 (NM_001163441) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mov10 (NM_001163441) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mov10
Synonyms: C77703; Mov-10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR211430 representing NM_001163441
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTAGCAAGTTCAGCTGCCGAAAGCTCCGGGAGACCGGCCAGAGGTTTCGAGAGTTTTCTGGCCGAAC
GTGGACTGGACCTGGAGACAGATCGTGAGCGGCTGCGGACGATTTACAACCACGACTTCAAGCCCAGCTA
TGGGACCCCTGCCCTGGCTTCTCCTCCATGCTGTATGGAATGAAGATCGCAAATCTGGCCTTCGTCAAC
AAGACTCGGGTCAGGTTCTTCAAAGTACGACCGCTGGGCTGATGTGCAGTTACCAGAAAAGAGGCGAATAA
AGCCAGGGTCGAACATCAGCAAACAACACAGATCACTGTTGGCCAGGATCTTTCACGACAGGGCTGAGTA
CCTTCATGGGAAGCATGGGGTAGACGTGGAGGTCAGGGGCCCATGAAGCCCGAGACGGGCAACTCCTT
ATCCACCTGGATTTGAACCGCAAGGAGGTAATAACCTACGGCTTCGGAACGGCGGAAGCAAACCTGTCA
CCCTCACTCACCTATCCCACTGTGCTGGACGCCCCAGTTGTCTTCTACCATGGAGAACAGGACCTGCC
CTGCCCCACTGGGCCCCGGTGAAGCTATGAACTCCACATCTACTGTAAGACCAGCATTGTGGGTTACTTC
CCAGCCACTGTCTCTGGGAACTCCTGGGACCCGGGAGTCGGGAGCAGAAGGAGAGAGGCCCGACCGA
TTGCCCGATTCTGGCGGCTGTCGCCACAGTCCCCTGGCTGCCAGTTGAAACCCAACTCCCTTCAA
ACGCCCCCTCGGCTCACCAGAACTCTGTGTTGACCAACCGGATCGAGGAAGGAGAGAGGCCCGACCGA
GCCAAGGGCTATGAACTAGAGCTAAGTTGGCCCTGGGACCTATTACCCACCACTCCTCCTCCGACAAC
TGCTCCCTACCCTTCTCAGGGACCAAGTATCTCACTGCCCCAAAGGAGGTTGCTGAGATCAAGGCCCA
GCTGGAGACAACCTGAAATCCAGGAACTATGAGGTGAACTCCGGCTGCTGCTGCACCTGGAAGAGCTG
CAGATGGAGCATGACATCCGGCACTATGACCTGGACTCGGTACCCATGACCTGGGACCTGTGGACCAGA
ATCCCAGGCTGCTCACCTGGAGGTTCTGGTGTGCGAGAGAGCCGTCCTCAGTGCTACGAGGTGACCA
CCTTTTGGCCCTTTTGTCTCTGAGACCAACAGGACGACCCTGTACCTACAAGGGTTTCGTGCACAAG
GTGGAAGTGGACCGTGTCAAGCTGAGCTTTTCTACAAGCCTCCTGAGCCGATTTGTGGATGGGCTGACCT
TCAAGGTGAACTTACCTTCAACCGCCAGCCCCCTCGGGTCCAGCACCGGCCCTAGAGTTGACGGGGCC
CTGGGTGCTATGGCCATGCTTTTTCTGTGGCCTCCCGTGGGCTCGTGTGCTGCCCTCAGATGTGAAG



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TTCAAGCTGTACGATCGGAGTCTGGAGTCAAACCTGAGCAACTGCAGGCCATGAAGCACATTGTGAGGG
 GTACCACCCGGCCTGCCCCCTACATCATCTTTGGGCCTCCAGGTACCGGCAAGACTGTCACATTAGTGGA
 GGCCATCAAACAGGTAGTGAAGCATTGCCCCAAAGCCACATCCTGGCCTGTGCTCCATCCAACCTCAGGG
 GCTGACCTCCTCTGTGACGGCTCCGGGTCCACCTGCCAGCTCCATCTACCGTCTCTGGCCCCCAGCA
 GGGACATCCGAATGGTGCCTGAGGACATTAAGACCTGCTGTAACCTGGGATGCTAAGAAGGGAGAATATGT
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 GTGTCAGCCCAGTTCCCATCGATCACTTACACACATCTTCATCGATGAGGCTGGCCACTGCATGGAG
 CTGAGAGTCTGGTGGCCATAGCAGGACTGATGGATGTCAAGGAAACGGGCAATCCCGGAGGGCAGCTGGT
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 GAAGGGTAAAGCCCGCTGAGCCCCGAAATGTGGGCGTCATCTCCCGTACCGGAAGCAGGTAGAAAAA
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 CTTTGTACAGCTGGATCTAGACTTTAACCTCGTTTCTTAAGAACCCCAAGAGGTTCAATGTTGCTGTG
 ACCCGAGCCAAGGCTTTGCTCATCGTAGTGGGCAACCCCTCCTCCTAGGCCACGACCCAGACTGGAAAA
 CGTTCCTGGAGTTCTGTAAGAAACCGGGGATATACCGGGTGCCCTTTCTGCCAACTGGACCTGCA
 GCAGGGACAGGACTTGTCCAAGGTCTGAGCAAACCTCAGCCCCTACCTCAGGGCCCCGGCTCACCAG
 AATCTCCCCCAGGAGCGGGAGGGTGAAGGGGCTGCCCTTACAAGTGGAGCCAGAGTGGAGAAATGAGC
 TC

ACGCGTACGCGGGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211430 representing NM_001163441
 Red=Cloning site Green=Tags(s)

MPSKFSRKLRETGQRFESFLAERGLDLETDRERLRTIYNHDFKPSYGTAPGFSMPLYGMKIANLAFVT
 KTRVRFKFLDRWADVQLPEKRRIKPGSNIKQHRSLRLARIFHDRAEYLHGKHGVDVEVQGPHEARDGQLL
 IHLDLNRKEVLTLLRNGGSKPVTLTHLFPLCWTPQFVYHGEQDLPCPLGPGESYELHIYCKTSIVGYF
 PATVLWELLGPGESGAEGAETFYIARFLAAVAHSPLAAQLKPTTFFKRPPRLTRNSVLTNRIEEGERPDR
 AKGYELESLSALGTYPPILLRQLLPTLLQGSPIFTAPKEVAEIKAQLETTLKSRNYEVKLRLHLLEEL
 QMEHDIRHYDLSDVPMTWDPVDQNPRLTLEVPGVAESRPSVLRGDHLLFALLSSETQDDPVTYKGFVHK
 VELDRVKLSFSTSLLSRFVDGLTFKVNFTFNRQPLRVQHRALELTGRWVLPMLFPVASRGVSLLPDVK
 FKL YDRSLESNPEQLQAMKHIVRGTTTPAPYIIFGPPGTGKTVTLVEAIKQVVKHLPKAHILACAPSNSG
 ADLLCQRLRVHLPSSIIYRLLAPSRDIRMVPEDIKTCNWDAAKGEYVYPAKKHLQYRVLITTLITASRL
 VSAQFPIDHFTHFIDEAGHCMEPESLVAIAGLMDVKETGNPQQQLVLAGDPRQLGPVLRSPALAKHGLG
 YSLLERLLAYNSLYKKGPNYDQPFITKLLRNYRSHPTILDIPNQLYYDGELQACADVDRERFCRWEGL
 PQQGFPIIFHGMGKDEREGNSPFFNPEEAATVTSYLKQLLAPSSKKGKARLSPRNQVISP YRKQVEK
 IRYCITKLDRELRLDDIKDLKVGSVVEEFQGGQERSVILISTVRSSQSFVQLDLDFNLGFLKNPKRFNVAV
 TRAKALLIVVGNPLLLGHDPDWKTFLEFCKENGGYTGCPFFAKL DLQQGQDLLQGLSKLSPSTSGPRRHQ
 NLPQEREGEGLPLQVEPEWRNEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9047_e11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001163441

ORF Size: 3012 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_001163441.1](#), [NP_001156913.1](#)

RefSeq Size: 3515 bp

RefSeq ORF: 3015 bp

Locus ID: 17454

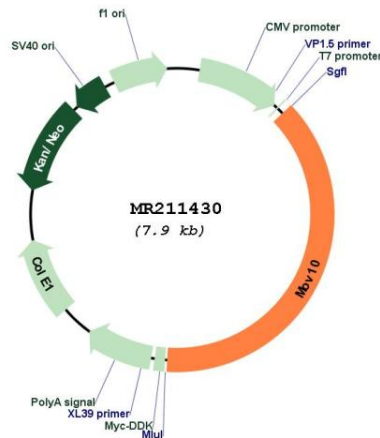
UniProt ID: [P23249](#)

Cytogenetics: 3 F2.2

MW: 114 kDa

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]

Product images:



Circular map for MR211430