

Product datasheet for MR226505

Mov10 (NM_001163440) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Mov10 (NM_001163440) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Mov10
 Synonyms: C77703; Mov-10
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >MR226505 representing NM_001163440
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCCGGGGCTCTGCCCTTTGCTCTGCAGCTTTTCTATGTCCCAGGCTCTGGAGAGTGGGCGTGGGAG
 TAGCCCTAGCTGAGGCTCCAAGGTCTCCGGGCTGTTAGGGGGCCCCAGGCGATATCCACGTTCCGATC
 CTGGCTCGCTGCCAGGGAGGGAGCTCGGGTTTCATTTCCGCGGACCCTCCTGCCTGGGCCGAGCCGCC
 GCCGCCGCGATGCTAGCAAGTTCAGCTGCCGAAAGCTCCGGGAGACCGGCCAGAGGTTTCGAGAGTTTTC
 TGGCCGAACGTGGACTGGACCTGGAGACAGATCGTGAGCGGCTGCGGACGATTTACAACCACGACTTCAA
 GCCCAGCTATGGGACCCCTGCCCTGGCTTCTCCTCCATGCTGTATGGAATGAAGATCGCAAATCTGGCC
 TTCGTCACCAAGACTCGGGTCAGGTTCTTCAAACCTAGACCGCTGGGCTGATGTGCAGTTACCAGAAAAGA
 GGCGAATAAAGCCAGGGTCGAACATCAGCAAACAACACAGATCACTGTTGGCCAGGATCTTTCACGACAG
 GGCTGAGTACCTTCATGGGAAGCATGGGGTAGACGTGGAGGTCCAGGGGCCCCATGAAGCCCAGACGGG
 CAACTCCTTATCCACCTGGATTTGAACCGCAAGGAGGTAACCTACGGCTTCGGAACCGCGGAAGCA
 AACCTGTCACCCCTCACTCACCTATTTCCACTGTGCTGGACGCCCAAGTTGTCTTACCATGGAGAACA
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GGCTGACCTTCAAGGTGAACTTTACCTTCAACCGCCAGCCCTTCGGGTCCAGCACCAGGGCCCTAGAGTT
 GACGGGGCGCTGGGTGCTATGGCCCATGCTTTTTCTGTGGCCTCCCGTGGGGTCTCGTTGCTGCCCTCA
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 AACTCAGGGGCTGACCTCCTCTGTGAGCGGCTCCGGGTCCACCTGCCAGCTCCATCTACCGTCTCCTGG
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 TTCTTCCAAGAAGGGTAAAGCCCGCTGAGCCCCGAAATGTGGGCGTCACTTCCCCGTACCGGAAGCAG
 GTAGAAAAATCCGTTACTGCATCACAAACTTGACCGAGAATTCGCGGACTGGATGACATCAAAGATT
 TGAAGGTGGGCTCTGTGGAAGAGTTCCAAGGCCAAGAACGACGCGTCATCCTCATCTCCACCGTCCGAAG
 CAGCCAGAGCTTTGTACAGCTGGATCTAGACTTAACTCGGTTTCTTAAAGAACCCCAAGAGGTTCAAT
 GTTGCTGTGACCCGAGCCAAGGCTTGTGCTCATCGTAGTGGGAACCCCTCCTCTAGGCCACGACCCAG
 ACTGAAAAACGTTCTGGAGTTCTGTAAGAAAACGGGGGATATACCGGGTGCCTTCTCTGCCAACT
 GGACCTGCAGCAGGGACAGGACTTGTCCAAGGTCTGAGCAAACCTCAGCCCTCTACCTCAGGGCCCCGC
 CGTCACCAGAATCTCCCCAGGAGCGGGAGGGTGAAGGGGGCCTGCCCTTACAAGTGGAGCCAGAGTGGA
 GAAATGAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226505 representing NM_001163440
 Red=Cloning site Green=Tags(s)

MSGALPFALQLFYVPRWLVRVGVVALAEAPRSSGLFRGPQAIISTFGSWLAARGGSSGFISADPPAWAAAA
 AAAMPSKFSKRKLRETRGQRFESFLAERGLDLETRERLRTIYNHDFKPSYGTAPPGFSSMLYGMKIANLA
 FVTKTRVRFKFLDRWADVQLPEKRRIKPGSNISKQHRSLARIFHDRAEYLHGKHGVDVEVQGPHEARDG
 QLLIHLDLNRKEVLTLLRNGGSKPVTLTHLFLCWTQPQFVYHGEQDLPCPLPGGESYELHIYCKTSIV
 GYFPATVLWELLGPGESGAEGAETFYIARFLAAVAHSPLAAQLKPTTFFKRPPRLTRNSVLTNRIEEGER
 PDRAKGYELELSLALGTYYPIILLRQLLPTLLQGPSIFTAPKEVAEIKAQLETTLKSRYEVKLRLLHL
 EELQMEHDIRHYDLDSVPMTPVDQNPRLTLEVPVGAESRPSVLRGDHLLFALLSSETQQDDPVYKGF
 VHKVELDRVKLSFSTSLSRFVDGLTFKVNFTFNRQPLRVQHRALELTGRWVLPMLFPVASRGVSLLPS
 DVKFKLYDRSLESNPEQLQAMKHIVRGTTTRPAPYIIFGPPGTGKTVTLVEAIKQVVKHLPKAHILACAPS
 NSGADLLCQRLRVHLPSIYRLLAPSRDIRMVPEDIKTCENWDKKEGYVYPAKKHLQYRVLITTLITA
 SRLVSAQFPIDHFTHFIDEAGHCMEPESLVAIAGLMDVKETGNPQQQLVLADPPRQLGPVLRSPALKH
 GLGYSLLERLLAYNSLYKKGPNQYDQFITKLLRNYRSHPTILDIPNQLYYDGELQACADVDRERFCRW
 EGLPQQGFPIIFHGMGKDEREGNSPFFNPEEAATVTSYLKQLLAPSSKKGKARLSPRNVGVI SPYRKQ
 VEKIRYCI TKLDRELRLDDIKDLKVGVSVEEFQGGQERSVILISTVRSSQSFVQLDLDFNLGFLKNPKRFN
 VAVTRAKALLIVVGNPLLLGHDPDWKTFLEFCENGGYTGCPFPKLDLQQGQDLLQGLSKLSPSTSGPR
 RHQNL PQEREGEGLPLQVEPEWRNEL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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:	<u>NM_001163440.1, NP_001156912.1</u>
RefSeq Size:	3639 bp
RefSeq ORF:	3234 bp
Locus ID:	17454
UniProt ID:	<u>P23249</u>
Cytogenetics:	3 F2.2
MW:	121.4 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]