

Product datasheet for **MR226504**

Mov10 (NM_008619) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mov10 (NM_008619) 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: >MR226504 representing NM_008619
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGCCTAGCAAGTTCAGCTGCCGAAAGCTCCGGGAGACCGCCAGAGGTTTCGAGAGTTTTCTGGCCGAAC
 GTGGACTGGACCTGGAGACAGATCGTGAGCGGCTGCGGACGATTTACAACCACGACTTCAAGCCCAGCTA
 TGGGACCCCTGCCCTGGCTTCTCCTCCATGCTGTATGGAATGAAGATCGCAAATCTGGCCTTCGTCAAC
 AAGACTCGGGTCAGGTTCTTCAAAGTACGACCGCTGGGCTGATGTGCAGTTACCAGAAAAGAGGCGAATAA
 AGCCAGGGTCGAACATCAGCAAACAACACAGATCACTGTTGGCCAGGATCTTTCAGACAGGGCTGAGTA
 CCTTCATGGGAAGCATGGGGTAGACGTGGAGGTCAGGGGCCCATGAAGCCCGAGACGGGCAACTCCTT
 ATCCACCTGGATTTGAACCGCAAGGAGGTAATAACCTACGGCTTCGGAACGGCGGAAGCAAACCTGTCA
 CCCTCACTCACCTATCCCACTGTGCTGGACGCCCCAGTTGTCTTCTACCATGGAGAACAGGACCTGCC
 CTGCCCCACTGGGCCCCGGTGAAGCTATGAACTCCACATCTACTGTAAGACCAGCATTGTGGGTTACTTC
 CCAGCCACTGTCTCTGGGAACTCCTGGGACCCGGGAGTCGGGAGCAGAAGGAGAGAGGCCCGACCGA
 TTGCCCGATTCTGGCGGCTGTCGCCACAGTCCCCTGGCTGCCAGTTGAAACCCAACTCCCTTCAA
 ACGCCCCCTCGGCTCACCAGAACTCTGTGTTGACCAACCGGATCGAGGAAGGAGAGAGGCCCGACCGA
 GCCAAGGGCTATGAACTAGAGCTAAGTTGGCCCTGGGACCTATTACCCACCACTCCTCCTCCGACAAC
 TGCTCCCTACCCTTCTCAGGGACCAAGTATCTCACTGCCCAAAGGAGGTTGCTGAGATCAAGGCCCA
 GCTGGAGACAACCCTGAAATCCAGGAACATGAGGTGAACTCCGGCTGTGCTGCACCTGGAAGAGCTG
 CAGATGGAGCATGACATCCGGCACTATGACCTGGACTCGGTACCCATGACCTGGGACCTGTGGACCAGA
 ATCCCAGGCTGCTCACCTGGAGGTTCTGGTGTGCGAGAGAGCCGTCCTCAGTGCTACGAGGTGACCA
 CCTTTTGGCCCTTTTGTCTCTGAGACCAACAGGACGACCTGTACCTACAAGGGTTTCGTGCACAAG
 GTGGAAGTGGACCGTGTCAAGCTGAGCTTTTCTACAAGCCTCCTGAGCCGATTTGTGGATGGGCTGACCT
 TCAAGGTGAACTTACCTTCAACCGCCAGCCCCCTCGGGTCCAGCACCGGCCCTAGAGTTGACGGGGCC
 CTGGGTGCTATGGCCATGCTTTTTCTGTGGCCTCCCCTGGGGTCTCGTTGCTGCCCTCAGATGTGAAG



[View online »](#)

TTCAAGCTGTACGATCGGAGTCTGGAGTCAAACCTGAGCAACTGCAGGCCATGAAGCACATTGTGAGGG
 GTACCACCCGGCCTGCCCCCTACATCATCTTTGGGCCTCCAGGTACCGGCAAGACTGTCACATTAGTGGA
 GGCCATCAAACAGGTAGTGAAGCATTGCCCCAAAGCCACATCCTGGCCTGTGCTCCATCCAACCTCAGGG
 GCTGACCTCCTCTGTGACGGCTCCGGGTCCACCTGCCAGCTCCATCTACCGTCTCTGGCCCCCAGCA
 GGGACATCCGAATGGTGCCTGAGGACATTAAGACCTGCTGTAACCTGGGATGCTAAGAAGGGAGAATATGT
 GTATCCTGCTAAGAAGCACCTGCAGCAATATCGGGTCTTAATTACCACCCTCATCACTGCCAGCAGTTG
 GTGTGACCCAGTTTCCCATCGATCACTTACACACATCTTCATCGATGAGGCTGGCCACTGCATGGAG
 CTGAGAGTCTGGTGGCCATAGCAGGACTGATGGATGTCAAGGAAACGGGCAATCCCGGAGGGCAGCTGGT
 ACTGGCAGGAGACCCCTCGGCAGCTGGGGCTGTGCTGCGCTCGCCACTAGCCCTGAAGCATGGACTTGGC
 TACTCTCTGCTAGAGCGCTGCTCGCTACAACCTCTTGTATAAGAAGGGCCCCAATGGCTATGACCCCC
 AGTTCATACCAAACCTGCTCCGCAACTACAGGTCTCACCCACCATCCTGGACATCCCTAACAGCTGTA
 CTACGACGGAGAGCTGCAGGCTGCGCAGATGTGGTGGATCGAGAACGGTTCTGCCGCTGGGAGGGGCTG
 CCTCAGCAGGGCTTCCCATCATTTTCCATGGTGAATGGGCAAAGATGAGAGAGAAGGCAATAGCCCAT
 CCTTCTTCAACCCTGAAGAGGCTGCTACAGTGACGTACACCTGAAACAACCTCTGGCCCCCTTCTCCAA
 GAAGGGTAAAGCCCGCTGAGCCCCGAAATGTGGGCGTCATCTCCCGTACCGGAAGCAGGTAGAAAAA
 ATCCGTTACTGCATCACAAAACCTGACCGAGAACTTCGCGGACTGGATGACATCAAAGATTTGAAGGTGG
 GCTCTGTGGAAGAGTTCCAAGGCCAAGAACGCAGCGTCATCCTCATCTCCACCGTCCGAAGCAGCCAGAG
 CTTTGTACAGCTGGATCTAGACTTTAACCTCGTTTCTTAAGAACCCCAAGAGGTTCAATGTTGCTGTG
 ACCCGAGCCAAGGCTTTGCTCATCGTAGTGGGCAACCCCTCCTCCTAGGCCACGACCCAGACTGGAAAA
 CGTTCCTGGAGTTCTGTAAGAAACCGGGGATATACCGGGTGCCCTTTCTGCCAACTGGACCTGCA
 GCAGGGACAGGACTTGTCCAAGGTCTGAGCAAACCTCAGCCCCTACCTCAGGGCCCCGCCGTACCAG
 AATCTCCCCCAGGAGCGGGAGGGTGAAGGGGCTGCCCTTACAAGTGGAGCCAGAGTGGAGAAATGAGC
 TC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226504 representing NM_008619
 Red=Cloning site Green=Tags(s)

MPSKFSRKLRETGQRFESFLAERGLDLETDRERLRTIYNHDFKPSYGTAPGFSMPLYGMKIANLAFVT
 KTRVRFKFLDRWADVQLPEKRRIKPGSNIKQHRSLARIFHDRAEYLHGKHGVDVEVQGPHEARDGQLL
 IHLDLNRKEVLTLLRNGGSKPVTLTHLFLCWTPQFVYHGEQDLPCPLGPGESYELHIYCKTSIVGYF
 PATVWELLGPGESGAEGAETFYIARFLAAVAHSPLAAQLKPTTFFKRPPRLTRNSVLTNRIEEGERPDR
 AKGYELELSLALGTYYPPILLRQLLPTLLQGPSIFTAPKEVAEIKAQLETTLKSRNYEVKLRLHLLEEL
 QMEHDIRHYDLSDVPMWDPVDQNPRLTLEVPGVAESRPSVLRGDHLFALLSSETQDDPVTYKGFVHK
 VELDRVKLSFSTSLLSRFVDGLTFKVNFTFNQRPLRVQHRALELTGRWVWPMLFPVASRGVSLLPSDVK
 FKL YDRSLESNPEQLQAMKHIVRGTRPAPYIIFGPPGTGKTVTLVEAIKQVVKHLPKAHILACAPSNSG
 ADLLCQRLRVHLPSSIIYRLLAPSRDIRMVPEDIKTCNNWDAKKEVYYPAPKHLQYRVLITTLITASRL
 YSAQFPIDHFTHIFIDEAGHCMEPESLVAIAGLMDVKETGNPQQQLVLAGDPRQLGPVLRSPALAKHGLG
 YSLLERLLAYNSLYKKGPNYDQPFITKLLRNYRSHPTILDIPNQLYYDGELQACADVDRERFCRWEGL
 PQQGFPIIFHGMGKDEREGNSPFFNPEEAATVTSYLKQLLAPSSKKGKARLSPRNQVISPYRKQVEK
 IRYCITKLDRELRLDDIKDLKVGSVVEEFQGGQERSVILISTVRSSQSFVQLDLDFNLGFLKNPKRFNVAV
 TRAKALLIVVGNPLLLGHDPDWKTFLEFCKENGGYTGCPFPAKLDLQQGQDLLQGLSKLSPSTSGPRRHQ
 NLPQEREGEGLPLQVEPEWRNEL

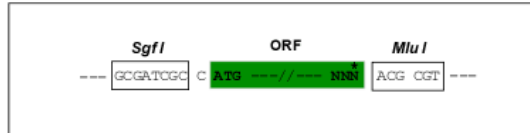
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



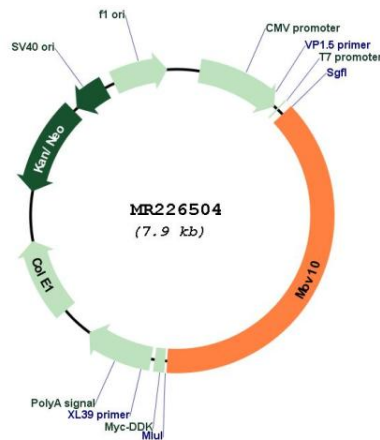
* The last codon before the Stop codon of the ORF

- ACCN:** NM_008619
- 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_008619.2](#), [NP_032645.2](#)
- RefSeq Size:** 3616 bp
- RefSeq ORF:** 3015 bp

Locus ID: 17454
UniProt ID: [P23249](#)
Cytogenetics: 3 F2.2
MW: 113.6 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 MR226504