

Product datasheet for **MG226504**

Mov10 (NM_008619) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mov10 (NM_008619) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mov10
Synonyms:	C77703; Mov-10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226504 representing NM_008619 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTAGCAAGTTCAGCTGCCGAAAGCTCCGGGAGACCGCCAGAGGTTTCGAGAGTTTTCTGGCCGAAC
GTGGACTGGACCTGGAGACAGATCGTGAGCGGCTGCGGACGATTTACAACCACGACTTCAAGCCCAGCTA
TGGGACCCCTGCCCTGGCTTCTCCTCCATGCTGTATGGAATGAAGATCGCAAATCTGGCCTTCGTCAAC
AAGACTCGGGTCAGGTTCTTCAAAGTACGACCGCTGGGCTGATGTGCAGTTACCAGAAAAGAGGCGAATAA
AGCCAGGGTCGAACATCAGCAAACAACACAGATCACTGTTGGCCAGGATCTTTCAGACAGGGCTGAGTA
CCTTCATGGGAAGCATGGGGTAGACGTGGAGGTCAGGGGCCCATGAAGCCCGAGACGGGCAACTCCTT
ATCCACCTGGATTTGAACCGCAAGGAGGTAATAACCTACGGCTTCGGAACGGCGGAAGCAAACCTGTCA
CCCTCACTCACCTATCCCACTGTGCTGGACGCCCCAGTTGTCTTCTACCATGGAGAACAGGACCTGCC
CTGCCCCACTGGGCCCCGTGAAAGCTATGAACTCCACATCTACTGTAAGACCAGCATTGTGGGTTACTTC
CCAGCCACTGTCTCTGGGAACTCCTGGGACCCGGGAGTCGGGAGCAGAAGGAGAGAGGCCCGACCGA
TTGCCCGATTCTGGCGGCTGTCGCCACAGTCCCCTGGCTGCCAGTTGAAACCCAACTCCCTTCAA
ACGCCCCCTCGGCTCACCAGAACTCTGTGTTGACCAACCGGATCGAGGAAGGAGAGAGGCCCGACCGA
GCCAAGGGCTATGAACTAGAGCTAAGTTGGCCCTGGGACCTATTACCCACCACTCCTCCTCCGACAAC
TGCTCCCTACCCTTCTCAGGGACCAAGTATCTCACTGCCCAAAGGAGGTTGCTGAGATCAAGGCCCA
GCTGGAGACAACCTGAAATCCAGGAAGTATGAGGTGAACTCCGGCTGTGCTGCACCTGGAAGAGCTG
CAGATGGAGCATGACATCCGGCACTATGACCTGGACTCGGTACCCATGACCTGGGACCTGTGGACCAGA
ATCCCAGGCTGCTCACCTGGAGGTTCTGGTGTGCGAGAGAGCCGTCCTCAGTGCTACGAGGTGACCA
CCTTTTGGCCCTTTTGTCTCTGAGACCAACAGGACGACCTGTACCTACAAGGGTTTCGTGCACAAG
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TCAAGGTGAACTTACCTTCAACCGCCAGCCCCCTCGGGTCCAGCACCGGCCCTAGAGTTGACGGGGCC
CTGGGTGCTATGGCCATGCTTTTTCTGTGGCCTCCCGTGGGCTCGTGTGCTGCCCTCAGATGTGAAG



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TTCAAGCTGTACGATCGGAGTCTGGAGTCAAACCTGAGCAACTGCAGGCCATGAAGCACATTGTGAGGG
 GTACCACCCGGCCTGCCCCCTACATCATCTTTGGGCTCCAGGTACCGGCAAGACTGTCACATTAGTGGA
 GGCCATCAAACAGGTAGTGAAGCATTGCCCCAAAGCCCACATCCTGGCCTGTGCTCCATCCAACCTCAGGG
 GCTGACCTCCTCTGTGAGCGGCTCCGGGTCCACCTGCCAGCTCCATCTACCGTCTCTGGCCCCAGCA
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 GTGTCAGCCCAGTTTCCCATCGATCACTTACACACATCTTCATCGATGAGGCTGGCCACTGCATGGAGC
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 CTACGACGGAGAGCTGCAGGCTGCGCAGATGTGGTGGATCGAGAACGGTTCTGCCGCTGGGAGGGGCTG
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 GAAGGGTAAAGCCCGCTGAGCCCCGAAATGTGGGCGTATCTCCCGTACCGAAGCAGGTAGAAAAA
 ATCCGTTACTGCATCACAAAACCTTGACCAGAACTTCGCGGACTGGATGACATCAAAGATTTGAAGGTGG
 GCTCTGTGGAAGAGTTCCAAGGCCAAGAACGCAGCGTATCCTCATCTCCACCGTCCGAAGCAGCCAGAG
 CTTTGTACAGCTGGATCTAGACTTTAACCTCGTTTCTTAAGAACCCCAAGAGGTTCAATGTTGCTGTG
 ACCCGAGCCAAGGCTTTGCTCATCGTAGTGGGCAACCCCTCCTCCTAGGCCACGACCCAGACTGGAAAA
 CGTTCCTGGAGTTCTGTAAGAAACCGGGGATATACCGGGTGCCCTTTCTGCCAACTGGACCTGCA
 GCAGGGACAGGACTTGTCCAAGGTCTGAGCAACTCAGCCCCTACCTCAGGGCCCCGGCTCACCAG
 AATCTCCCCAGGAGCGGGAGGGTGAAGGGGCTGCCCTTACAAGTGGAGCCAGAGTGGAGAAATGAGC
 TC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226504 representing NM_008619
 Red=Cloning site Green=Tags(s)

MPSKFSRKLRETGQRFESFLAERGLDLETDRERLRTIYNHDFKPSYGTAPGFSMLYGMKIANLAFVT
 KTRVRFKLDRAWVQLPEKRRIKPGSNISKQRSLLARIFHDRAEYLHGKHGVDVEVQGPHEARDGQLL
 IHLDLNRKEVLTLLRNGGSKPVTLTHLFLCWTQPQFVYHGEQDLPCPLGPGESYELHIYCKTSIVGYF
 PATVLWELLGPGESGAEGAETFYIARFLAAVAHSPLAAQLKPTTFFKRPRLTRNSVLTNRIEEGERPDR
 AKGYELELSLALGTYPPILLRQLLPTLLQGPSIFTAPKEVAEIKAQLETTLKSRYEVKLRLLHLEEL
 QMEHDIRHYDLDSVPMWDPVDQNPRLTLEVPGVAESRPSVLRGDHLLFALLSSETQDDPVTYKGFVHK
 VELDRVKLSFSTSLLSRFVDGLTFKVNFTFNRQPLRVQHRALELTGRWVWPMLFPVASRGSLLPSDVK
 FKLDRSLESNPEQLQAMKHIVRGTRPAPYIIFGPPGTGKTVTLVEAIKQVVKHLPKAHILACAPSNSG
 ADLLCQRLRVHLPSSYIRLLAPSRDIRMVPEDIKTCNWDAAKGEYVYPAKKHLQYRVLITTLITASRL
 VSAQFPIDHFTHIFIDEAGHCMEPESLVAIAGLMDVKETGNPQQQLVLAGDPRQLGPVLRSPALAKHGLG
 YSLLERLLAYNSLYKKGPNYDPPQFITKLLRNYRSHPTILDIPNQLYYDGELQACADVDRERFCRWEGL
 PQQGFPIIFHGMGKDEREGNSPFFNPEEAATVTSYLKQLLAPSSKKGKARLSPRNQVIVSPYRKQVEK
 IRYCITKLDRELRLDDIKDLKVGSVVEEFQGGERSVILISTVRSSQSFVQLDLDFNLGFLKNPKRFNVAV
 TRAKALLIVVGNPLLLGHDPDWKTFLEFCKENGGYGCPPAKLQLQGGDQLLQGLSKLSPSTSGPRRHQ
 NLPQEREGGLPLQVEPEWRNEL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<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:	NM_008619.2 , NP_032645.2
RefSeq Size:	3616 bp
RefSeq ORF:	3015 bp
Locus ID:	17454
UniProt ID:	P23249
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]