

Product datasheet for **SC320191**

MOV10 (NM_020963) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MOV10 (NM_020963) Human Untagged Clone
Tag: Tag Free
Symbol: MOV10
Synonyms: fSAP113; gb110
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_020963.1
 CTCAGCTGCAGCGCGACTTTTCAGTTTCATTTCCACGGACCTCCTGCTGGGCCGAGC
 CGCCGCCGCGATGCCAGTAAGTTCAGCTGCCGGCAGCTCCGGGAGCGGGCCAGTGTTT
 CGAGAGTTTCCTGGTCGTTTCGGGACTGGACATGGAGACAGATCGCGAGCGGCTGCGGAC
 CATTATAAACCGCGACTTCAAGATCAGCTTTGGGACCCCGCCCTGGCTTCTCCTCCAT
 GCTGTATGGAATGAAGATTGCAATCTGGCCTACGTCACCAAGACTCGGGTCAAGTTCTT
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 TCTTCATGGGAAACATGGTGTGGATGTGGAAGTCCAGGGGCCCATGAAGCCGAGATGG
 GCAGCTCCTTATCCGCTGGATTTGAACCGCAAAGAGGTGCTGACCTGAGGCTTCGGAA
 TGGCGGAACCCAGTCTGTTACCCTCACTCACCTTCCCCTCTGCCGGACACCCAGTT
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 ACTCCATGTCCATTGTAAGACCAGCTTTGTGGGCTACTTCCCAGCCACAGTGCTCTGGGA
 GCTGCTGGGACCTGGGGAGTCGGGTTTCAGAAGGAGCCGGCACATTCTACATTGCCCGCTT
 CTTGGCTGCCGTCGCCCACAGCCCCCTGGCTGCACAGCTGAAGCCCATGACTCCCTTCAA
 GCGGACCCGGATCACCAGAAACCTGTGGTGACCAATCGGATAGAGGAAGGAGAGAGACC
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 TGTGGATGGGCTGACCTCAAGGTGAACTTTACCTTCAACCGCCAGCCGCTGCGAGTCCA
 GCACCGTGCCTGGAGCTGACAGGGCGCTGGCTGCTGTGGCCCATGCTCTTCTGTGGC
 ACCTCGGGACGTCGGCTGCTGCCCTCAGATGTGAACTCAAGCTGTACGACCGGAGTCT



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GGAGTCAAACCCAGAGCAGCTGCAGGCCATGAGGCACATTGTTACGGGCACCACCCGTCC
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AATTAAGCAGGTGGTGAAGCACTTGCCCAAAGCCACATCTTGGCCTGCGCTCCATCCAA
CTCAGGGGCTGACCTACTCTGTCAAAGGCTCCGGGTCCACCTTCTAGCTCCATCTACCG
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TGTTCTATGCAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_020963
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_020963.1](#), [NP_066014.1](#)

RefSeq Size: 3328 bp

RefSeq ORF: 3012 bp

Locus ID: 4343

UniProt ID: [Q9HCE1](#)

Cytogenetics: 1p13.2

Gene Summary: 5' to 3' RNA helicase contributing to UPF1 mRNA target degradation by translocation along 3' UTRs (PubMed:24726324). Required for microRNA (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 (PubMed:16289642, PubMed:17507929, PubMed:22791714). In cooperation with FMR1, regulates miRNA-mediated translational repression by AGO2 (PubMed:25464849). Restricts retrotransposition of long interspersed element-1 (LINE-1) in cooperation with TUT4 and TUT7 counteracting the RNA chaperone activity of L1RE1 (PubMed:30122351, PubMed:23093941). Facilitates LINE-1 uridylation by TUT4 and TUT7 (PubMed:30122351). 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 (By similarity). May function as a messenger ribonucleoprotein (mRNP) clearance factor (PubMed:24726324).[UniProtKB/Swiss-Prot Function]