

## Product datasheet for **SC106141**

### MOV10 (AL832805) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MOV10 (AL832805) Human Untagged Clone
Tag:	Tag Free
Symbol:	MOV10
Synonyms:	fSAP113; gb110
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for AL832805, the custom clone sequence may differ by one or more nucleotides

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GGCGTAATGGGCAAAGATGAGCGTGAAGGCAACAGCCCATCCTTCTTCAACCCTGAAGAGGCTGCCACAG
TGACTTCTACCTGAAGCTGCTCCTGGCCCCCTCCTCCAAGAAGGGCAAAGCCCGCTGAGCCCTCGAAG
TGTGGGCGTCATCTCCCGTACCGGAAACAGGTGGAGAAAATCCGTTACTGCATCACAACTTGACAGG
GAGCTTCGAGGACTGGATGACATCAAGGACTTGAAGAACAATTTGCAGGCCCCAGCCCTCAGCAGGATTC
AACCTTCAGGTTTCAGCTTCCACAGCCTACCTCCCATCCCCTTTCCCTGGGCCGTGTCGACGACTGGTT
CACTCACTGATCTACAATTGCCAGTGACTCTCTGTACCTCCTTGAAGGCAAGCTCCCTGGGGTAGG
GCACCCCTTTGACACCCCTGGCTGGTCTCAGGCCCTGCCTCTTTCCCACTAGGTGGGTTTCAGTAGAAGA
ATTCGAAGGCAAGAACGAAGCGTCATCCTCATCTCCACCGTGCGAAGCAGCCAGAGCTTTGTGCAGCTG
GATCTGGACTTTAATCTGGGTTTCCTTAAGAACCCCAAGAGGTTCAATGTAGCTGTGACCCGGGCAAGG
CCCTGCTCATCATCGTGGGGAACCCCTTCTCCTGGGCCATGACCCTGACTGGAAAGTGTGAGCATTCCC
ACCCCATTTCTCCCTTTAGTGGCCACAGCCCCTGCCTAGGGCAGGTGGATCTTTTTTAAGCGTTGCTTA
TCGCTCAGTTAATCCTCAGATGTGTCCATTTTACAGCATCACTATTGTATTTAAGTTAAATGACATC
CAGAGTTGAGCAAGTACAGCTCAGATGGGACAGGACCGTGGCTTAGCCTCCAGTCTCTGCTGCCACTCC
TCTGTACCCACAGATTCTGGAGTTCTGTAAAGAAAACGGAGGTATACCGGGTGTCCCTTCCCTGCCA
AACTGGACCTGCAACAGGGACAGAATTTACTGCAAGGTCTGAGCAAGCTCAGCCCTCTACCTCAGGGCC
CCACAGTCATGACTACCTCCCCAGGAGCGGGAGGGTGAAGGGGGCCTGTCTCTGCAAGTGGAGCCAGAG
TGGAGGAATGAGCTCTGAAGACACAGCACCCAGCCTTCTCGCACCAGCCAAGCCTTAAGTGCCTGCCTGA
CCCTGAACCAGAACCCAGCTGAACTGCCCTCCAAGGGACAGGAAGGCTGGGGGAGGGAGTTTACAACCC
AAGCCATTCCACCCCTCCCTGCTGGGAGAATGACACATCAAGCTGCTAACAATTGGGGGAAGGGGAA
GGAAGAAAACCTGAAAACAAAACTTGTCTATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for AL832805 unedited</p> <p>TAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGCGCAACTACAGG  TCTCATCCACCATCCTGGACATTCTAACCAGCTCTATTATGAAGGGGAGCTGCAGGCC  TGTGCTGATGTCGTGGATCGAGAACGCTTCTGCCGCTGGGCGGGCCTACCTCGACAGGGC  TTTCCCATCATCTTTCACGGCGTAATGGGCAAAGATGAGCGTGAAGGCAACAGCCCATCC  TTCTTCAACCCTGAAGAGGCTGCCACAGTACTTCTACCTGAAGCTGCTCCTGGCCCCC  TCCTCCAAGAAGGCAAAGCTCGCCTGAGCCCTCGAAGTGTGGGGTCACTCTCCCGTAC  CGGAAACAGGTCAGGTCCTCAGTTACCAGCAAGGTGGGGCCCTCCCCAGATGGTACC  TCCTTAATATCCAGACCACTAGGCAGAGGCTCCAGGAGCTTAGGCCTCTGCTGGCTCCGT  ATCTCAGAAGAGCACCAAGGTCAGCTGCCGCTCCCTTTGTTCCCCAGCTCCCTGGCCTC  CTGCCAGGCTCCCTTTGCATTAGGTTAATGGCACGAGAGAAAGGCACCTGTCCCCTCT  TCCAGGTGGAGAAAATCCGTTACTGCATCACAAAATTGACAGGGAGCTTCGAGGACTGG  ATGACATCAANGACTTGAAGGTGACATGCTGTTCCACAGTCACTCCCTGCCTTCCGTGTG  CCCCACTTGCCACTTNCAGAGACTTNCAGACTTCAAGCTTCCACTCCAGCCCACGTNCCCGTN  CCACCCCTGCTGNCTTGAATAGAGCTCGAGCTCTCCCTGAGCCTCTCACTCCTGNAGATN  CCAACTAANGGTCTGGNATGGGATCACGAAGCCTGCATGTTAAACAACACCTCCTGTCAT  TCTTAAACTGTAGCACGGTTGAAGCCTCTGCCCTAAAGATAAAGTCAAATNNCGTGCCTG  TCATGTGATGCTGCCCCCCCCACCCAGTAGCTCTCTAAGGTTCTGTCTAN</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for AL832805 unedited</p> <p>TCTANGATCGATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTCAAAT  TTCTTCTTCCCCTTCCCCCAATATGTTAAACAATTGATGTGTCATTCTCCCAACAAGG  GAAGGGGTGGAAGGCTTGGGTTGTAACCTCCCTCCCCAACCTTCTGTCCCTTGAAG  GGCAATTCAACTGGGTTCTGGTTCAAGGTCAAGCAGGCAGTTAAAGCTTGGCTGGTGCCA  AAAAGCTGGGTGCTGTGCTTCAAACCTCATTCTCCACTCTGGCTCCACTTGCAAAAAC  AGGCCCTTCCACCTCCCGCTCCTGGGGGAAGTAATCATGGCTGTGGGGCCCTGAAGTA  AAAGGGCTGAACCTTGCTCAAACCTTGAATAAATTCTGTCCCTGTGCAAGTCCCATTG  GCAGGGAAAGGACACCCGTATACCTCCGTTTTCTTTACAGAACTCCAAGAATACTTTC  CAGTCAAGGTCATGGCCCAAGAAAAGGGGTTCCCCACCATGATGAACAAGGCCTTGGCC  CCGGTCACAACCTTCTTGAACTCTGGAAAGAAGAAATGGTGTGGTCATGAAAGGGAAAA  ACCCCCAAAATGGAAGAATTCTGCCACCCCGAACAACTCAAACCTTGGGGTTCTTAA  GGAAACCCAGATTAAGTCCAAATTCAGCTGCACCAAACCTTGGCTGCTTCCACGGTGG  GAGATTAGGATGACCCCTTCTTCTTGGCCCTTGAATTTTTCTACTGAACCCACCTAA  TGGGGAAAAAACCCAGGGCCCTGAAACCAACCAAGGGTGTCTAAAGGGGTGCCCTACCC  CAGGAAGCTTTGCCCTTCCAGGAAGGTACAC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AL832805
<b>Insert Size:</b>	2500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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:** [AL832805.1](#)

**RefSeq Size:** 1399 bp

**RefSeq ORF:** 1399 bp

**Locus ID:** 4343

**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]