

Product datasheet for **RC239812**

MOV10 (NM_001286072) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MOV10 (NM_001286072) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MOV10
Synonyms:	fSAP113; gb110
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

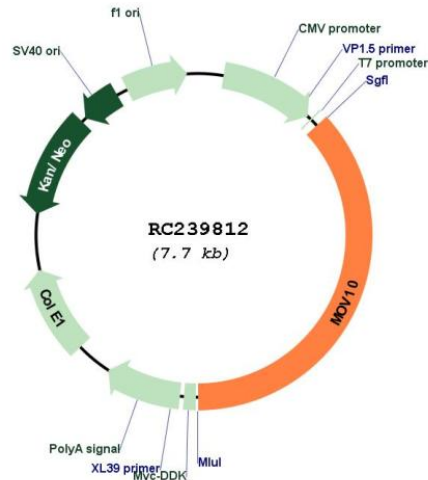
>RC239812 representing NM_001286072
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGTATGGAATGAAGATTGCAAATCTGGCCTACGTCACCAAGACTCGGGTCAGGTTCTTCAGACTCG
 ACCGCTGGGCCGACGTGCGGTTCCAGAAAAGAGGAGAATGAAGCTGGGGTCAGATATCAGCAAACACCA
 CAAGTCACTGCTAGCCAAGATCTTTTATGACAGGGCTGAGTATCTTCATGGGAAACATGGTGTGGATGTG
 GAAGTCCAGGGGCCCATGAAGCCCAGATGGGCAGCTCCTTATCCGCCTGGATTGAACCGCAAAGAGG
 TGCTGACCCTGAGGCTTCGGAATGGCGAACCCAGTCTGTTACCCTCACTCACCTCTCCACTCTGCCG
 GACACCCAGTTTCTTCTACAATGAAGACCAGGAGTTGCCCTGTCCACTGGGCCCGGTGAATGCTAT
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 GACTTCTACCTGAAGCTGCTCCTGGCCCCCTCCTCCAAGAAGGGCAAAGCTCGCCTGAGCCCTCGAAGT
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 AAGCGTCATCCTCATCTCCACCGTGCAGCAGCCAGAGCTTTGTGCAGCTGGATCTGGACTTTAATCTG
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 GTATACCGGGTGTCCCTCCCTGCCAACTGGACCTGCAACAGGGACAGAATTTACTGCAAGGTCTGAGC
 AAGCTCAGCCCCCTACCTCAGGGCCCCACAGCCATGACTACCTCCCCAGGAGCGGGAGGGTGAAGGGG
 GCCTGTCTCTGCAAGTGGAGCCAGAGTGGAGGAATGAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Plasmid Map:



ACCN: NM_001286072

ORF Size: 2841 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_001286072.1](#), [NP_001273001.1](#)

RefSeq Size: 4515 bp

RefSeq ORF: 2844 bp

Locus ID: 4343

UniProt ID: [Q9HCE1](#)

Cytogenetics: 1p13.2

MW: 107.7 kDa

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]