

Product datasheet for MC223893

Mov1011 (NM_031260) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mov1011 (NM_031260) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mov1011
Synonyms: CHAMP; Csm
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223893 representing NM_031260
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATTGACGACTTGATCTACTTTTCCAATGACGCTGTGACGAGTAAAGTGCTTCTGAACGTGGGACAGG
 AAGTCATTGCTGTCGTTGAAGAAAACAAAGTGTCAAATGGACTGAAAGCAATCAGAGTAGAAGCTGTCTC
 TGACAAATGGGAAGATGATAGCAAAAACCTAGCAAAGGGTTGTCAGACTCCAGCCCAGAGTGCTGATT
 GGCTGTGTGACTTCCATGTTGGAAGGTGCTGGCTATATCAGCCAGACCACATACTTCTCTTTGGAGAGTG
 TGTGTGAAGGTTTCCACCCATGCAAGGGTGACTGGGTAGAGGCTGAGTATTGGATCAGGCCAGGGACATG
 GAGCAGTGAGGCAATCTCTGTGAAGCCTCTGAGGTACAAGCGTGTGGACAAGGTTTGCAATTTCCAGCCTG
 TGTGGGAGGAACGGGGTGATAGAGGACAGCATCTTCTTCAGCCTGGACTCCTTGAAGCTGCCGGAAGGGT
 ACATACCGAGGAGACACGACATTGTCAATGCTGTGTTGTGGAGAGCAGCCAGTCATGCTACATCTGGAG
 AGCACTGTGCATGACCCCTGTGAAGAGAGATGCCACTCTTGGTGAGGCCCTCAGGAGCCCTATGGAGCA
 CTCTTACTGAAAAACAAAGGGGACATTGAAGTTACAAGAATGACCAGTTTTGGAACATTGAAGGAAGGAG
 AAAGCAAATCAATCGTGATCTGGATAGAGAATAAAGGGAAGTCTCTCGGAGCTTGTGAGTTGAGAGT
 GGCTAACTGGGATAAAGCACACCAGTTTAGATTTGAGACACAGGGCAGAAGCAAGTCTGCCAGGAGCG
 GCTGCTGGGTCTGTTCTGAAGGTGAAAATGTTAATTCATTGAATCATCAGAGAAGACAAAACCTGATG
 AGATTCAGAGAGCCGTCTGGCGAACAGCACAGAAATCTCCAGATGGCTGCGCTTGTAAAGAAGAAAAG
 TAGAGAAAAAGGAAACACGCCAGAGAAACAGGAGCCAGAGCCTGGGGGGCTATTCTCCGGGGGAGAAAG
 ACTCACATTGTGGTCACATGCAGTGCCAAAAACCTGGCCGTTGCAAGGAGCTGCTTCTGCTCTGTTTCT
 CCGACTTCTCATTGGCGGCATCTTGAAGTGAGTGTGGTGAGCAGCGAGGAGGCCCTGATAGCTGTGCC
 TGAGCCGTTTTCTTGAAGAAGCCTAAAAGCTCCCAAACATTAGTGTCTGCAAAGACTACAGTTGTTGTA
 ACCACACAAAAAGGAACTCGAGGCGACAACCTCCAAGTTTTCTCCACAGTATCCAATACCAGATAGAC
 TTAATAAATGTGTGGAGCAGAAGATTGACATCCTGACTTTCCAGCCGCTTCTGACAGAGCTTTGAACAT
 GTCAAACTACAAGGAGAAGTTCTCCACCCTGCTGTGGCTAGAGGAGATCCATGCAGAAATCGAGCTGAAG
 GAGTACAACATGAGCAGAGTTGCTCCTCAAGAGGAAGGGGGATCTGCTGGTCTGGAGTCCCCGGGCTCG



[View online »](#)

CAGAGAGCCGGCCTTCCCTCTATGCAGGTGACAACTGATTTTAAAACTCAAGAATACAATGGACATGT
 CATTGAATATATCGGCTATGTCATGGAGATTTCATGAAGAAGTAACTCTTAACTTAATCCAGGATTT
 GAACAAATGTATAATTTTGAACCTATGGATGTGGAGTTTACATACAATCGGACCACAAGCAGACGGTGTC
 ACTATGCACCTTGAGCAGGTCCATCCATTTGGGTGTAAAAGTATTATTTCCAGAAGAAATCATTTTACAGTC
 TCCTCAGGTGACAGGGAATTGGAGCCTTGACAGGACACCAAAAATGATGGGCAGTCCATCACCACATC
 ACCAGAAATGATGGACAGTCCATGACCAAGGTAACCAGAAATGACAGCCAGTCCATCACCACATCATCA
 GAAATGATGGACAGTCCATCACCACATCACCAGAAATGACGGGCAGCCATCACCAGTAACCCAGAAA
 TAACAGCCAGTCAATCACCACATCACCAGAAATGACGGGCAGCCATCACCAGAAACAAGAAAACAGTG
 AAGGACCAAACTAAACACACAACAGAGGAAAGGCACGTGGGTACCACGGACCAGCCAGAGAGGCTTCTCT
 CCACTGCAGAGACTATGGATGAAATCCAGATCCCAAAAGCACGAGATAAGGAGTTCTTCAACCCAGTGCT
 CAATGAAAACCAAAAGCTGGCCGTGAGGAGGATCCTGAGTGGCGACTGCCGGCCTCTCCCATATATCCTT
 TTTGGACCTCCGGGAAGTGGAAAGACTGTGACTATAATCGAGGCTGTTTTGCAGGTACATTATGCTTTGC
 CGGACAGTCGGATTTTGGTCTGCGCTCCTTCCAACAGTGTGCTGACCTTGTGTGTTTGGACTTCATGA
 GAGCAAGGTGCTGAAGCCAGTCCATGGTCCGGTGAATGCCACCTGCAGATTTGAAGAGACTATTATT
 GATGCCATCAAACCGTATTGCAGAGATGGAGAAGATATCTGGAGGCCTCACGCTTCAGGATAAATCA
 CTACATGTAGCAGTGCAGGACTGTTTTACCAAATAGGAGTGAGAGTTGGATACTTCACACATGATTTGT
 GGACGAGGCAGGACAGGCAAGTGAGCCAGAATGCCTTATTCCTTTGGGACTGATTTCCAGACATCAATGGC
 CAGATCGTGCTTGTGGAGACCCATGCAGCTCGGCCAGTCAAGTCCAGGCTGGCCATGGCCTATG
 GGTTGAATGTGTCCATGTTGGAGAGGCTGATGTCCAGACCAGCGTACCTGAGAGACGAAAATGCCTTTGG
 CGCTTGGCGGTGCATATAACCCATTGTTGGTCAAAAGCTTGTGAAGAACTACAGGTCCCCTCGGCTCTG
 CTGGCACTGCCCTCACGCTGTTCTACCATAGGGAGCTTGAGGTCTGTGCTGATCCCAAAGTGTGACTT
 CACTGCTGGGCTGGGAGAAGCTGCCAGAAAAGGCTTCCCTCTCATCTTCCATGGAGTGAAGGGGAACGA
 GGCTCGTGAAGGAGAAGCCATCGTGGTTCAGCCAGCCAGGCTGTCCAGGTCATGCGCTACTGTTGC
 CTCTTGGCCCGGAGTGTCTCCAGTCAAGTGTCTTCCAAGGATATAGGTGTCATCACACCCTATCGGAAGC
 AGGTGGAATAAATAAATCCTTCTGCGAAATGTGGATTTGACTGACATAAAGGTTGGCTCGGTAGAGGA
 GTTCCAGGACAAGAGTACCTGGTTCATGCTCATCTCCACTGTGCGGTCAAATGAAGATAGATTTGAAGAT
 GACCGTATTTTTTGGGTTTCTGTCCAATCAAAAAGATTTAATGTTGCAATCACAAGACCCAAAGCAC
 TGCTGATCATTCTGGAAACCTCATGTGCTTGTGAGAGATCCCTGTTTTGGAGCGCTGTAGAATACAG
 TGTTAGCAATGGTGTCTACACAGGGTGTGATCTGCCTCCTGAACTCCAGGCTCTCCAAAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_031260
- Insert Size:** 3564 bp
- 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).
- 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_031260.2](#), [NP_112550.2](#)

RefSeq Size: 4053 bp

RefSeq ORF: 3564 bp

Locus ID: 83456

UniProt ID: [Q99MV5](#)

Cytogenetics: 15 E3

Gene Summary: Isoform 1: ATP-dependent RNA helicase required during spermatogenesis to repress transposable elements and prevent their mobilization, which is essential for germline integrity (PubMed:20534472, PubMed:20547853, PubMed:23166510, PubMed:25762440). Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons (PubMed:20534472, PubMed:20547853, PubMed:23166510, PubMed:25762440). Involved in the primary piRNA metabolic process (PubMed:20534472, PubMed:20547853, PubMed:23166510, PubMed:25762440). Specifically binds to piRNA precursors and promotes the generation of intermediate piRNA processing fragments that are subsequently loaded to Piwi proteins (PubMed:25762440). Acts via its ATP-dependent RNA helicase activity: displays 5'-3' RNA unwinding activity and probably mediates unwinding and funneling of single-stranded piRNA precursor transcripts to the endonuclease that catalyzes the first cleavage step of piRNA processing to generate piRNA intermediate fragments that are subsequently loaded to Piwi proteins (PubMed:25762440).[UniProtKB/Swiss-Prot Function]