

Product datasheet for **MC217696**

Dnm2 (BC010233) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnm2 (BC010233) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dnm2
Synonyms:	b2b2159Clo; Dyn2; Udnm
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC010233
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTTGAAGCCATCGTGAAAAACAGCTTGTAAACTCAAAGAGCCGAGTTTGAAGTGTGTTGACC
 TGGTGGTGTCCGAGCTAGCCACGGTCATTA AAAAGTGTGCTGAGAAGCTGAGTTCCTACCCCGCTGCG
 AGAGGAGACCGAGCGAATTGTCACCACCTACATCAGGGAGCGAGAAGGGAGAACCAGGACCAGATTCTT
 CTTCTGATTGACATTGAGCAGTCGTACATCAACACAAACCATGAAGACTTCATTGGATTTGCCAATGCC
 AGCAGAGGAGCACGCAGCTGAACAAGAAGAGGGCCATACCCAATCAGGGGGAGATCTTGGTGATCCGCGAG
 GGGCTGGTTGACCATCAACAATATCAGCTTGATGAAGGGTGGCTCCAAGGAGTACTGGTTCGTGCTGACA
 GCTGAGTCATTGTCTTGGTACAAGGATGAGGAGGAGAAAAGAAAGTACATGCTGCCACTGGACAACC
 TCAAGATCCGGGACGTGAAAAGGGCTTCATGTCCAACAAGCACGTGTTTGCCATCTTCAACACAGAGCA
 GAGGAATGTCTACAAGGACCTTCGACAGATTGAACTGGCTTGACTCCCAGGAAGATGTGGACAGCTGG
 AAGGCTTCGTTCCCTGCGCGCTGGGGTCTACCCAGAGAAGGACCAGGCAGAGAATGAGGATGGAGCACAAG
 AGAACACCTTCTCCATGGACCCGACGCTGGAGCGACAGGTGGAGACCATCCGTAACCTGGTGGACTCCTA
 CGTGGCCATCATCAACAAGTCCATCCGTGACCTTATGCCAAAGACCATCATGCACCTCATGATCAACAAC
 ACAAAGGCCTTCCATCCACCATGAGCTGTGGCTTACCTGTATTTCATCAGCAGACCAGAGCAGCCTCATGG
 AAGAGTCAGCCGAGCAGGCTCAGCGGCGGGACGACATGCTGCGCATGTACCACGCACTGAAGGAGGCCCT
 CAACATTATTGGGACATCAGCACCAGCACCGTGTCCACACCCGTGCCCCACCGGTCGATGACACGTGG
 CTCCAAAACACCAGCGGCCACAGCCCCACTCCACAGCGCCGACCTGTGTCCAGTGTGACCCACCAGGCC
 GGCCACCTGCAGTGCAGGGTCTACACCGGGCTCCCTGATTCCCTATGCCTGTGGGGCCACATCCTC
 TTCTCAGCACCTCCATCCCATCCCGGCTGGACCACAGAGTGTGTTTGCCAACAACGACCCCTTCTCT
 GCGCCACCTCAGATACCATCTCGCCAGCACGGATTCCCCTGGTATCCCTCCAGGAGTGCCAGGCGAC
 CACCTCCATTGGCTCCTGCCGACCTTTCTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC010233

Insert Size: 1365 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: [BC010233](#), [AAH10233](#)

RefSeq Size: 1875 bp

RefSeq ORF: 1364 bp

Locus ID: 13430

Cytogenetics: 9 7.79 cM

Gene Summary: Microtubule-associated force-producing protein involved in producing microtubule bundles and able to bind and hydrolyze GTP. Plays a role in the regulation of neuron morphology, axon growth and formation of neuronal growth cones (By similarity). Plays an important role in vesicular trafficking processes, in particular endocytosis. Involved in cytokinesis (PubMed:18923138). Regulates maturation of apoptotic cell corpse-containing phagosomes by recruiting PIK3C3 to the phagosome membrane (PubMed:18425118).[UniProtKB/Swiss-Prot Function]