

Product datasheet for **MC229059**

Dnm2 (NM_001253894) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnm2 (NM_001253894) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dnm2
Synonyms:	b2b2159Clo; Dyn2; Udnm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC229059 representing NM_001253894
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCAACCGGGGATGGAAGAGCTCATCCCGCTGGTTAAACAAGCTGCAGGACGCCTTCAGCTCCATCG
 GTCAGAGCTGCCACCTGGACCTGCCGAGATCGCCGTGGTGGCGGCCAGAGCGCCGGCAAAAGTTCGGT
 GCTCGAGAACTTCGTGGGCCGGGACTTCCTTCCACGAGGATCAGGAATTGTCACCCGGAGGCCTCTCATT
 CTGCAGCTCATCTTTCCAAAACAGAATATGCGGAATTTTTCAGCTGCAAGTCCAAAAAATTTACAGACT
 TTGATGAAGTCCGGCAGGAGATCGAAGCAGAGACTGACCGGGTACAGGCCACCAACAAAGGCATCTCCCC
 TGTGCCATCAACCTTCGGTCTACTCACCACAGTGTGAAGTTCAGCCCTCATCGACTCCAGGCATC
 ACTAAGGTGCCGGTGGGGACCAGCCGACAGATCGAGTACCAGATCAAGGACATGATCCTGCAGTTCA
 TCAGCCGGAGAGCAGCCTCATTCTTCCGTACACCTGCCAACATGGACTTGGCCAACTCAGACGCCCT
 CAAGCTGGCCAAGGAGGTGGACCCCAAGGCCTACGGACCATCGTGTGCATCACAAGCTAGACTTGATG
 GATGAAGGCACAGACGCCAGGGATGTCTGGAAAACAAGCTACTGCCCTTGAGAAGAGGCTATATCGGGC
 TGGTTAACCGAAGCCAGAAAGACATCGAGGGCAAAAAGGACATCCGGGCTGCTCTGGCAGCCGAGAGGAA
 ATTCTTCTCTCCACCCAGCCTACCGGCACATGGCTGACCGCATGGGCACCCACACTTCAGAAAAACC
 CTGAACCAGCAACTGACCAACCACATCCGAGAGTCACTGCCGACCTTCGAGCAAGCTGCAGAGCCAAC
 TGCTGTCCCTGGAGAAGGAAGTGAAGAGTACAAGAATTTCCGGCCTGATGACCCACGCGCAAGACCAA
 AGCCCTGCTGCAGATGGTTCAGCAGTTTGGAGTGGACTTGAAGAAGCAATTGAAGGCTCGGGAGATCAA
 GTAGACACACTAGAGTTGCTGGTGGAGCCCGCATCAATCGTATCTTTCATGAGCGCTTCCCTTTGAAC
 TGGTAAAGATGGAGTTTATGAGAAAGATCTACGAAGAGAGATCAGCTATGCTATTAAGAACATCCACGG
 AGTCAGAACTGGGCTCTCACGCCGATTGGCGTTTCAGGGCATTGTGAAAAAGCAGGTGGTCAAGCTG
 AAAGAGCCCTGTCTGAAATGCGTGGACCTGGTTATCCAGGAGCTAATCAGTACAGTTAGGCAAGTGCACCA
 GCAAGCTGAGTTCCTACCCCGGCTGCGAGAGGAGACCGAGCAATTGTCACCACCTACATCAGGGAGCG
 AGAAGGGAGAACCAAGGACCAGATTCTTCTTCTGATTGACATTGAGCAGTCGTACATCAACACAAACCAT
 GAAGACTTCATTGGATTTGCCAATGCCAGCAGAGGAGCAGCAGCTGAACAAGAAGAGGGCCATACCCA
 ATCAGGGGGAGATCTTGGTATCCGAGGGGCTGGTTGACCATCAACAATATCAGCTTGATGAAGGGTGG
 CTCCAAGGAGTACTGGTTCGTGCTGACAGCTGAGTCATTGTCTTGGTACAAGGATGAGGAGGAGAAAGAA
 AAGAAGTACATGCTGCCACTGGACAACCTCAAGATCCGGGACGTGAAAAGGGCTTCATGTCCAACAAGC
 ACGTGTTCATCTTCAACACAGAGCAGAGGAATGTCTACAAGGACCTTCGACAGATTGAAGTGGCTTG
 TGAATCCAGGAAGATGTGGACAGCTGGAAGGCTTCGTTCTGCGCGCTGGGGTCTACCCAGAGAAGGAC
 CAGGCAGAGAATGAGGATGGAGCACAAGAGAACACCTTCTCCATGGACCCGACGCTGGAGCGACAGGTGG
 AGACCATCCGTAACCTGGTGGACTCCTACGTGGCCATCATCAACAAGTCCATCCGTGACCTTATGCCAAA
 GACCATCATGCACCTCATGATCAACAACACAAAGGCCTTCATCCACCATGAGCTGCTGGCTTACCTGTAT
 TCATCAGCAGACCAGAGCAGCCTCATGGAAGAGTCAAGGAGCAGGCTCAGCGGGGACGACATGCTGC
 GCATGTACCACGCACTGAAGGAGGCCCTCAACATTATTGGGGACATCAGCACCAGCACCCTGTCACACC
 CGTGCCCCACCGGTGATGACACGTGGCTCCAAAACACCAGCGGCCACAGCCCACTCCACAGCGCCGA
 CCTGTGTCCAGTGTGACCCACCAGGCCGACCTGCAGTGGGGTCCATACCCGGGGCTCCCTGGA
 TTCTATGCCTGTGGGGCCACATCCTCCTTCTCAGCACCTCCATCCATCCCGGCTGGACCACAGAG
 TGTGTTTGCCAAACGACCCCTTCTGCGCCACCTCAGATACCATCTCGGCCAGCAGGATTCCCCCT
 GGTATCCCTCCAGGAGTCCCGAGGCCACCTCCATTGGCTCCTGCCGACCTTCTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001253894
Insert Size: 2583 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001253894.1, NP_001240823.1</u>
RefSeq Size:	3080 bp
RefSeq ORF:	2583 bp
Locus ID:	13430
UniProt ID:	<u>P39054</u>
Cytogenetics:	9 7.79 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) contains an alternate 3' terminal exon compared to variant 1. The resulting protein (isoform 4) has a shorter and distinct C-terminus compared to isoform 1.</p>