

## Product datasheet for **MC222253**

### **Dnm2 (NM\_001039520) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dnm2 (NM_001039520) 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:** >MC222253 representing NM\_001039520  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCAACCGGGGATGGAAGAGCTCATCCCGCTGGTTAAACAAGCTGCAGGACGCCTTCAGCTCCATCG  
 GTCAGAGCTGCCACCTGGACCTGCCGAGATCGCCGTGGTGGGCGCCAGAGCGCCGCAAAAGTTCGGT  
 GCTCGAGAACTTCGTGGGCCGGGACTTCCTTCCACGAGGATCAGGAATTGTCACCCGGAGGCCTCTCATT  
 CTGCAGCTCATCTTTCCAAAACAGAATATGCGGAATTTTTCAGCTGCAAGTCCAAAAATTTACAGACT  
 TTGATGAAGTCCGGCAGGAGATCGAAGCAGAGACTGACCGGGTACAGGCCACCAACAAAGGCATCTCCCC  
 TGTGCCATCAACCTTCGGTCTACTCACACAGTGTGAAGTGAACCTCATCGACTCCAGGCATC  
 ACTAAGGTGCCGGTGGGGACCAGCCGACAGATCGAGTACCAGATCAAGGACATGATCCTGCAGTTCA  
 TCAGCCGGAGAGCAGCCTCATTCTTCCGTACACCTGCCAACATGGACTTGGCCAACTCAGACGCCCT  
 CAAGCTGGCCAAGGAGGTGGACCCCAAGGCCTACGGACCATCGTGTGCATCACAAGCTAGACTTGATG  
 GATGAAGGCACAGACGCCAGGATGTCTGGAAAACAAGCTACTGCCCTTGAGAAGAGGCTATATCGGGC  
 TGGTTAACCGAAGCCAGAAAGACATCGAGGGCAAAAAGGACATCCGGGCTGCTCTGGCAGCCGAGAGGAA  
 ATTCTTCTCTCCACCCAGCCTACCGGCACATGGCTGACCGCATGGGCACCCACACTTCAGAAAAACC  
 CTGAACCAGCAACTGACCAACCACATCCGAGAGTCACTGCCGACCTTCGAGCAAGCTGCAGAGCCAAAC  
 TGCTGTCCCTGGAGAAGGAAGTGAAGAGTACAAGAATTTCCGGCCTGATGACCCACGCGCAAGACCAA  
 AGCCCTGCTGCAGATGGTTCAGCAGTTTGGAGTGGACTTGAAGAGCAATTGAAGGCTCGGGAGATCAA  
 GTAGACACACTAGAGTTGTCTGGTGGAGCCGCATCAATCGTATCTTTCATGAGCGCTTCCCTTTGAAC  
 TGGTAAAGATGGAGTTTATGAGAAAGATCTACGAAGAGAGATCAGCTATGCTATTAAGAACATCCACGG  
 AGTCAGGACGGGGCTCTTCAACCCGACATGGCCTTTGAAGCCATCGTGAAAAAACAGCTTGTAAAACTC  
 AAAGAGCCGAGTTTGAAGTGTGTGACCTGGTGGTGTGCGAGCTAGCCACGGTCATTA AAAAGTGTGCTG  
 AGAAGCTGAGTTCCTACCCCGGCTGCGAGAGGAGACCGAGCAATTGTCACCACCTACATCAGGGAGCG  
 AGAAGGGAGAACCAAGGACCAGATTCTTCTGATTGACATTGAGCAGTCGTACATCAACACAAACCAT  
 GAAGACTTCATTGGATTTGCCAATGCCAGCAGAGGAGCAGCAGCTGAACAAGAAGAGGGCCATACCCA  
 ATCAGGGGAGATCTTGGTATCCGAGGGGCTGGTTGACCATCAACAATATCAGCTTGATGAAGGGTGG  
 CTCCAAGGAGTACTGGTTCGTGCTGACAGCTGAGTCATTGTCTTGGTACAAGGATGAGGAGGAGAAAGAA  
 AAGAAGTACATGTGCCACTGGACAACCTCAAGATCCGGGACGTGAAAAGGGCTTCATGTCCAACAAGC  
 ACGTGTTCATCTTCAACACAGAGCAGAGGAATGTCTACAAGGACCTTCGACAGATTGAAGTGGCTTG  
 TGACTCCAGGAAGATGTGGACAGCTGGAAGGCTTCGTTCTGCGCGCTGGGGTCTACCCAGAGAAGGAC  
 CAGGCAGAGAATGAGGATGGAGCACAAGAGAACACCTTCTCCATGGACCCGACGCTGGAGCGACAGGTGG  
 AGACCATCCGTAACCTGGTGGACTCCTACGTGGCCATCATCAACAAGTCCATCCGTGACCTTATGCCAAA  
 GACCATCATGCACCTCATGATCAACAACACAAAGGCCTTCATCCACCATGAGCTGCTGGCTTACCTGTAT  
 TCATCAGCAGACCAGAGCAGCCTCATGGAAGAGTCAAGGAGCAGGCTCAGCGGGGACGACATGCTGC  
 GCATGTACCACGCACTGAAGGAGGCCCTCAACATTATTGGGACATCAGCACCAGCACCCTGCCACACC  
 CGTGCCCCACCGGTGATGACACGTGGCTCCAAAACACCAGCGGCCACAGCCCCACTCCACAGCGCCGA  
 CCTGTGTCCAGTGTGACCCACCAGGCCGACCTGCAGTGGGGTCTTACCCGGGGCTCCCTGATG  
 TTCTATGCCTGTGGGGCCACATCCTCTTCTCAGCACCTCCATCCATCCCGGCTGGACCACAGAG  
 TGTGTTTGCCAACAACGACCCCTTCTGCGCCACCTCAGATACCATCTCGGCCAGCAGGATTCCCCCT  
 GGTATCCCTCCAGGAGTCCCGAAGAGCGCCGCTGCGCCAGCCGGCCACCATTATCCGCCAGCCG  
 AGCCGTCCTGCTCGACTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001039520  
**Insert Size:** 2610 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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001039520.2</a></u> , <u><a href="#">NP_001034609.1</a></u>
<b>RefSeq Size:</b>	3579 bp
<b>RefSeq ORF:</b>	2610 bp
<b>Locus ID:</b>	13430
<b>Cytogenetics:</b>	9 7.79 cM
<b>Gene Summary:</b>	<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 (2) uses an alternate splice site in the 3' coding region compared to variant 1. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to isoform 1.</p>