

Product datasheet for **MC229069**

Dnm2 (NM_007871) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnm2 (NM_007871) 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: >MC229069 representing NM_007871
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAACCGGGGATGGAAGAGCTCATCCCGCTGGTTAAACAAGCTGCAGGACGCCTTCAGCTCCATCG
 GTCAGAGCTGCCACCTGGACCTGCCGAGATCGCCGTGGTGGGCGCCAGAGCGCCGGCAAAAAGTTCGGT
 GCTCGAGAACTTCGTGGGCCGGGACTTCCTTCCACGAGGATCAGGAATTGTCACCCGGAGGCCTCTCATT
 CTGCAGCTCATCTTTCCAAAACAGAATATGCGGAATTTTTCAGCTGCAAGTCCAAAAAATTTACAGACT
 TTGATGAAGTCCGGCAGGAGATCGAAGCAGAGACTGACCGGGTACAGGCCACCAACAAAGGCATCTCCCC
 TGTGCCCATCAACCTTCGGTCTACTCACCACAGTGTGAAGTGAACCTCATCGACTCCAGGCATC
 ACTAAGGTGCCGTGGGGACCAGCCGACAGATCGAGTACCAGATCAAGGACATGATCCTGCAGTTCA
 TCAGCCGGCAGAGCAGCCTCATTCTTGGCGTACACCTGCCAACATGGACTTGGCCAACCTCAGACGCCCT
 CAAGCTGGCCAAGGAGGTGGACCCCAAGGCCTACGGACCATCGTGTGCATCACAAGCTAGACTTGATG
 GATGAAGGCACAGACGCCAGGGATGTCTGGAAAACAAGCTACTGCCCTTGAGAAGAGGCTATATCGGGC
 TGGTTAACCGAAGCCAGAAAGACATCGAGGGCAAAAAGGACATCCGGGCTGCTCTGGCAGCCGAGAGGAA
 ATTCTTCTCTCCACCCAGCCTACCGGCACATGGCTGACCGCATGGGCACCCACACTTGCAAGAAAAC
 CTGAACCAGCAACTGACCAACCACATCCGAGAGTCACTGCCGACCTTCGAGCAAGCTGCAGAGCCAAC
 TGCTGTCCCTGGAGAAGGAAGTGAAGAGTACAAGAATTTCCGGCCTGATGACCCACGCGCAAGACCAA
 AGCCCTGCTGCAGATGGTTCAGCAGTTTGGAGTGGACTTGGAGAAGCAATTGAAGGCTCGGGAGATCAA
 GTAGACACACTAGAGTTGTCTGGTGGAGCCGCATCAATCGTATCTTTCATGAGCGCTTTCCCTTTGAAC
 TGGTAAAGATGGAGTTTATGAGAAAGATCTACGAAGAGAGATCAGCTATGCTATTAAGAACATCCACGG
 AGTCAGAACTGGGCTCTTACGCCGGATTGGCGTTCGAGGCCATTGTGAAAAAGCAGGTGGTCAAGCTG
 AAAGAGCCCTGTCTGAAATGCGTGGACCTGTTATCCAGGAGCTAATCAGTACAGTTAGGCAAGTGCACCA
 GCAAGCTGAGTTCCTACCCCGGCTGCGAGAGGAGACCGAGCAATTGTCACCACCTACATCAGGGAGCG
 AGAAGGGAGAACCAAGGACCAGATTCTTCTTCTGATTGACATTGAGCAGTCGTACATCAACACAAACCAT
 GAAGACTTCATTGGATTTGCCAATGCCAGCAGAGGAGCAGCAGCTGAACAAGAAGAGGGCCATACCCA
 ATCAGGTGATCCGCAGGGGCTGGTTGACCATCAACAATATCAGCTTGATGAAGGGTGGCTCAAGGAGTA
 CTGTTCTGTGCTGACAGCTGAGTATTGTCTTGGTACAAGGATGAGGAGGAGAAAAGAAAAGTACATG
 CTGCCACTGGACAACCTCAAGATCCGGGACGTGGAAAAGGGCTTCATGTCCAACAAGCAGTGTTCGCCA
 TCTTCAACACAGAGCAGAGGAATGTCTACAAGGACCTTCGACAGATTGAACTGGCTTGTGACTCCCAGGA
 AGATGTGGACAGCTGGAAGGCTTCGTTCTGCGCGCTGGGGTCTACCCAGAGAAGGACCAGGCAGAGAAT
 GAGGATGGAGCACAAGAGAACACCTTCTCCATGGACCCGACGCTGGAGCGACAGGTGGAGACCATCCGTA
 ACCTGGTGGACTCCTACGTGGCCATCATCAACAAGTCCATCCGTGACCTTATGCCAAGACCATCATGCA
 CCTCATGATCAACAACACAAAGGCCTTCATCCACCATGAGCTGCTGGCTTACCTGTATTTCATCAGCAGAC
 CAGAGCAGCCTCATGGAAGAGTCAGCCGAGCAGGCTCAGCGCGGGACGACATGCTGCGCATGTACCAGC
 CACTGAAGGAGGCCCTCAACATTATTGGGGACATCAGCACCAGCACCGTGTCCACACCCGTGCCCCACC
 GGTGATGACACGTGGCTCCAAAACACCAGCGGCCACAGCCCACTCCACAGCGCCGACCTGTGTCCAGT
 GTGCACCACAGCGCCGCCACCTGCAGTGGGGTCTACACCGGGGCTCCCTGATTCTATGCTG
 TGGGGCCACATCCTCCTCTCAGCACCTCCCATCCCATCCCGGCTGGACCACAGAGTGTGTTGCCAA
 CAACGACCCCTTCTGCGCCACCTCAGATACCATCTCGGCCAGCAGGATTCCCCCTGGTATCCCTCCA
 GGAGTGCCAGCAGAAGAGCGCCGCTGCGCCAGCCGGCCACCATTATCCGCCAGCCGAGCCGTCCC
 TGCTCGACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_007871

Insert Size:	2601 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:	NM_007871.2 , NP_031897.2
RefSeq Size:	3570 bp
RefSeq ORF:	2601 bp
Locus ID:	13430
UniProt ID:	P39054
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 (3) lacks an alternate exon in the coding region compared to variant 1. The resulting protein (isoform 3) is shorter but has the same N- and C-termini compared to isoform 1.</p>