

Product datasheet for **MG207259**

Dnm2 (BC010233) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnm2 (BC010233) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dnm2
Synonyms:	b2b2159Clo; Dyn2; Udnm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207259 representing BC010233
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTTGAAGCCATCGTGAAAAACAGCTTGTAAACTCAAAGAGCCGAGTTTGAAGTGTGTGACC
 TGGTGGTGTGGAGCTAGCCACGGTCATTA AAAAGTGTGCTGAGAAGCTGAGTTCCTACCCCGCTGCG
 AGAGGAGACCGAGCGAATTGTCACCACCTACATCAGGGAGCGAGAAGGGAGAACCAGGACCAGATTCTT
 CTTCTGATTGACATTGAGCAGTCGTACATCAACACAAACCATGAAGACTTCATTGGATTTGCCAATGCC
 AGCAGAGGAGCACGCAGCTGAACAAGAAGAGGGCCATACCCAATCAGGGGAGATCTTGGTGATCCGCGAG
 GGGCTGGTTGACCATCAACAATATCAGCTTGATGAAGGGTGGCTCCAAGGAGTACTGGTTCGTGCTGACA
 GCTGAGTCATTGTCTTGGTACAAGGATGAGGAGGAGAAAAGAAAGTACATGCTGCCACTGGACAACC
 TCAAGATCCGGGACGTGAAAAGGGCTTCATGTCCAACAAGCACGTGTTTGCCATCTTCAACACAGAGCA
 GAGGAATGTCTACAAGGACCTTCGACAGATTGAACTGGCTTGACTCCCAGGAAGATGTGGACAGCTGG
 AAGGCTTCGTTCCCTGCGCGCTGGGGTCTACCCAGAGAAGGACCAGGCAGAGAATGAGGATGGAGCACAAG
 AGAACACCTTCTCCATGGACCCGACGCTGGAGCGACAGGTGGAGACCATCCGTAACCTGGTGGACTCCTA
 CGTGGCCATCATCAACAAGTCCATCCGTGACCTTATGCCAAAGACCATCATGCACCTCATGATCAACAAC
 ACAAAGGCCTTATCCACCATGAGCTGTGGCTTACCTGTATTTCATCAGCAGACCAGAGCAGCCTCATGG
 AAGAGTCAGCCGAGCAGGCTCAGCGGGGGACGACATGCTGCGCATGTACCACGCACTGAAGGAGGCCCT
 CAACATTATTGGGACATCAGCACCAGCACCGTGTCCACACCCGTGCCCCACCGGTGATGACACGTGG
 CTCCAAAACACCAGCGGCCACAGCCCCACTCCACAGCGCCGACCTGTGTCCAGTGTGACCCACCCAGGCC
 GGCCACCTGCAGTGGGGTCTTACACCGGGCTCCCTGATTTCCTATGCCTGTGGGGCCACATCCTC
 CTCTCAGCACCTCCATCCATCCCGGCTGGACCACAGAGTGTGTTTGCCAACAACGACCCCTTCTCT
 GCGCCACCTCAGATACCTCTCGCCAGCACGGATTCCCCTGGTATCCCTCCAGGAGTGCCAGGCGAC
 CACCTCCATTGGCTCCTGCCGACCTTTCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207259 representing BC010233
 Red=Cloning site Green=Tags(s)

MAFEAIVKKQLVKLKEPSLKCVDLVVSELATVIKKCAEKLSSYPRLREETERIVTTYIREREGRTKDQIL
 LLIDIEQSYINTNHEDFIGFANAQQRSTQLNKKRAIPNQGEILVIRRGWLTINNISLMKGGKEYWFLV
 AESLSWYKDEEEKEKMYMLPLDNLKIRDVEKGFMSNKHVFAIFNTEQRNVYKDLRQIELACDSQEDVDSW
 KASFLRAGVYPEKDAQENEDGAQENTFSMDPQLERQVETIRNLVDSYVAIINKSIRDLMPKTIMHLMINN
 TKAFIHHELLAYLYSSADQSSLMEESAQAQRDDMLRMYHALKEALNIIGDISTVSTPVPVDDTTW
 LQNTSGHSPTPQRRPVSSVHPPGRPPAVRGPTPGPPLIPMPVGATSSFSAPPISRPQPQSYFANNDPFS
 APPQIPSRPARIPPGIPPVPRRPPPLAPARPF

TRTRPLE - GFP Tag - V

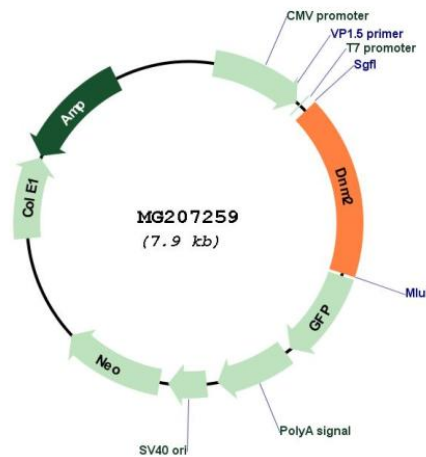
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC010233

ORF Size: 1364 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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>BC010233</u> , <u>AAH10233</u>
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]