

Product datasheet for **MR207259**

Dnm2 (BC010233) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnm2 (BC010233) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR207259 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTTGAAGCCATCGTGAAAAACAGCTTGTAAACTCAAAGAGCCGAGTTTGAAGTGTGTGACC
 TGGTGGTGTGCGAGCTAGCCACGGTCATTA AAAAGTGTGCTGAGAAGCTGAGTTCCTACCCCGCTGCG
 AGAGGAGACCGAGCGAATTGTCACCACCTACATCAGGGAGCGAGAAGGGAGAACCAGGACCAGATTCTT
 CTTCTGATTGACATTGAGCAGTCGTACATCAACACAAACCATGAAGACTTCATTGGATTTGCCAATGCC
 AGCAGAGGAGCACGCAGCTGAACAAGAAGAGGGCCATACCCAATCAGGGGGAGATCTTGGTATCCGCGAG
 GGGCTGGTTGACCATCAACAATATCAGCTTGATGAAGGGTGGCTCCAAGGAGTACTGGTTCGTGCTGACA
 GCTGAGTCATTGTCTTGGTACAAGGATGAGGAGGAGAAAAGAAAGTACATGCTGCCACTGGACAACC
 TCAAGATCCGGGACGTGAAAAGGGCTTCATGTCCAACAAGCACGTGTTTGCCATCTTCAACACAGAGCA
 GAGGAATGTCTACAAGGACCTTCGACAGATTGAACTGGCTTGTGACTCCCAGGAAGATGTGGACAGCTGG
 AAGGCTTCGTTCCCTGCGCGCTGGGGTCTACCCAGAGAAGGACCAGGCAGAGAATGAGGATGGAGCACAAG
 AGAACACCTTCTCCATGGACCCGACGTGGAGCGACAGGTGGAGACCATCCGTAACCTGGTGGACTCCTA
 CGTGGCCATCATCAACAAGTCCATCCGTGACCTTATGCCAAAGACCATCATGCACCTCATGATCAACAAC
 ACAAAGGCCTTATCCACCATGAGCTGTGGCTTACCTGTATTATCAGCAGACCAGAGCAGCCTCATGG
 AAGAGTCAGCCGAGCAGGCTCAGCGGGGGACGACATGCTGCGCATGTACCACGCACTGAAGGAGGCCCT
 CAACATTATTGGGACATCAGCACCAGCACCGTGTCCACACCCGTGCCCCACCGGTGATGACACGTGG
 CTCCAAAACACCAGCGGCCACAGCCCCACTCCACAGCGCCGACCTGTGTCCAGTGTGACCCACCAGGCC
 GGCCACCTGCAGTGCGGGGTCTACACCGGGGCTCCCTGATTCTATGCCTGTGGGGCCACATCCTC
 CTCTCAGCACCTCCCATCCCATCCCGGCTGGACCACAGAGTGTGTTTGCCAACAACGACCCCTTCTCT
 GCGCCACCTCAGATACCATCTCGCCAGCACGGATTCCCCTGGTATCCCTCCAGGAGTGCCAGGCGAC
 CACCTCCATTGGCTCCTGCCGACCTTTCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207259 protein sequence
 Red=Cloning site Green=Tags(s)

MAFEAIVKKQLVKLKEPSLKCVDLTVSELATVIKKCAEKLSSYPRLREETERIVTTYIREREGRTKDQIL
 LLIDIEQSYINTNHEDFIGFANAQQRSTQLNKKRAIPNQGEILVIRRGWLTINNI SLMKGGSKEYWFVLT
 AESLSWYKDEEEKEKMYMLPLDNLKIRDVEKGFMSNKHVFAIFNTEQRNVYKDLRQIELACDSQEDVDSW
 KASFLRAGVYPEKDAQENEDGAQENTFSMDPQLERQVETIRNLVDSYVAIINKSIRDLMPKTIMHLMINN
 TKAFIHHELLAYLYSSADQSSLMEESAQAQRDDMLRMYHALKEALNIIGDISTVSTVPVPPVDDTW
 LQNTSGHSPTPQRRPVSSVHPPGRPPAVRGPTPGPPLIPMPVGATSSFSAPPIPSRRPGPQSVFANNDPFS
 APPQIPSRPARIPPGIPPVPRRPPPLAPARPF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC010233

ORF Size: 1362 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:

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

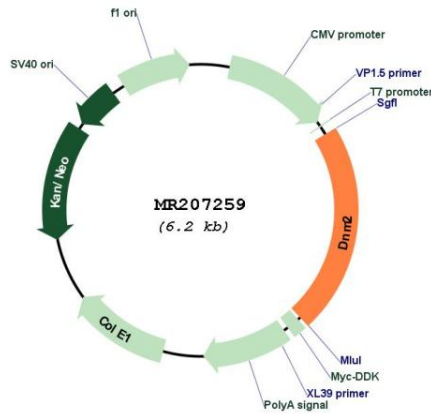
Locus ID: 13430

Cytogenetics: 9 7.79 cM

MW: 51.3 kDa

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]

Product images:



Circular map for MR207259