

Product datasheet for **MG222360**

Dnm2 (NM_001039520) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnm2 (NM_001039520) 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:

>MG222360 representing NM_001039520
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCAACCGCGGGATGGAAGAGCTCATCCCGCTGGTTAAACAAGCTGCAGGACGCCTTCAGCTCCATCG
 GTCAGAGCTGCCACCTGGACCTGCCGAGATCGCCGTGGTGGGCGGCCAGAGCGCCGGCAAAGTTCGGT
 GCTCGAGAACTTCGTGGGCCGGGACTTCCTTCCACGAGGATCAGGAATTGTCACCCGGAGGCCTCTCATT
 CTGCAGCTCATCTTTCCAAAACAGAATATGCGGAATTTTTCAGCTGCAAGTCCAAAAAATTTACAGACT
 TTGATGAAGTCCGGCAGGAGATCGAAGCAGAGACTGACCGGGTACAGGCACCAACAAAGGCATCTCCCC
 TGTGCCATCAACCTTCGGTCTACTCACACAGTGTGAAGTGAACCTCATCGACTCCAGGCATC
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 TGTGTTTGCCAACAACGACCCCTTCTGCGCCACCTCAGATACCATCTCGGCCAGCAGGATTCCCCCT
 GGTATCCCTCCAGGAGTCCCGAAGAGCGCCGCTGCGCCAGCCGGCCACCATTATCCGCCAGCCG
 AGCCGTCCCTGCTCGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222360 representing NM_001039520
 Red=Cloning site Green=Tags(s)

MGNRGMEELIPLVNLQDAFSSIGQSCHLDLPQIAVVGGSAGKSSVLENFVGRDFLPRGSGIVTRRPLI
 LQLIFSKTEYAEFLHCKSKKFTDFDEVQRQEIEAETDRVTGTNKGISPVVINLRVYSPHVLNLTIDLPGI
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 DEGTDARDVLENKLLPLRRGYIGVVNRSQKDIEGKKDIRAALAAERKFFLSHPAYRHMADRMGTPHLQKT
 LNQQLTNHIRESLPTLRSKLQSLLSLEKEVEEYKNFRPDDPTRKTKALLQMVQQFGVDFEKRIEGSGDQ
 VDTLELSGGARINRIFHERFPFELVKMEFDEKDLRREISYAIKNIHGVRTGLFTPDMAFEAIVKKQLVKL
 KEPSLKCVDLVVSELATVIKKCAEKLSSYPRLREETERIVTTYIREREGRTKDQILLIDIEQSYINTNH
 EDFIGFANAQQRSTQLNKKRAIPNQGEILVIRRGWLTINNI SLMKGSKEYWFL TAESLSWKDEEEKE
 KKYMLPLDNLKIRDVEKGFMSNKHVFAIFNTEQRNVYKDLRQIELACDSQEDVDSWKASFLRAGVPEKD
 QAENEDGAQENTFSMDPQLERQVETIRNLVDSYVAIINKSIRDLMPKTIMHLMINNTKAFIHHELLAYLY
 SSADQSSLMEESAQAQRDDMLRMYHALKEALNIIGDISTSTVSTPVPVDDTWLQNTSGHSPTPQR
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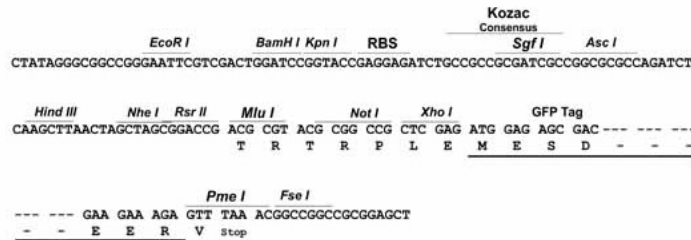
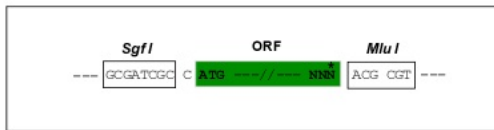
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1611_c11.zip

Restriction Sites: SgfI-MluI

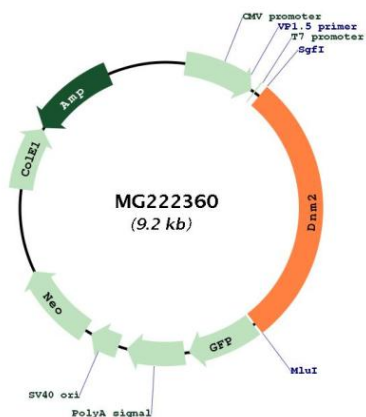
Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN:	NM_001039520
ORF Size:	2607 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:	NM_001039520.2 , NP_001034609.1
RefSeq Size:	3483 bp
RefSeq ORF:	2610 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]

Product images:



Circular map for MG222360