

Product datasheet for **MG221573**

Dnm3 (NM_001038619) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnm3 (NM_001038619) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dnm3
Synonyms:	9630020E24Rik; AW061159; B230343F03Rik; C530045C17; mKIAA0820
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221573 representing NM_001038619
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAACCGGGAGATGGAAGAGCTGATCCCTCTGGTGAACCGTCTGCAGGACGCTTTCTCGGCTCTGG
 GACAGAGCTGTCTGCTAGAGCTGCCACAGATCGCCGTGGTGGCGGCCAGAGCGCCGCAAGAGCTCAGT
 GCTCGAGAATTTCTGGGACGGGACTTTCTTCTCGAGGCTCAGGCATTGTAACAGACGGCCTCTTGTA
 CTCACGCTTGTCACCTCTAAAGCAGAATATGCCGAGTTTCTACATTGCAAAGGAAAAAATTTACAGATT
 TTGATGAAGTTCGACATGAGATCGAAGCAGAAACAGCCGCTAACAGGAATGAATAAAGGCATCTCTTC
 TATACCCATTAACCTCCGAGTCTACTCTCCCCACGTGTTAAATCTAACGCTAATCGACCTACCTGGAATA
 ACGAAAGTGGCCGTTGGGAGACCAGCCGCAGATATCGAGTATCAGATCAGAGATATGATTATGCAGTTCA
 TCACGAGGGAGAACTGTCTGATTTTGGCTGTACGCCAGCCAACACCGATCTTGGCAACTCGGATGCACT
 GAAGCTAGCCAAAGAAGTTGATCCTCAAGTCTGAGGACATTGGCGTGATCACCAGCTGGATCTCATG
 GATGAAGGAACAGATGCCAGGGATGTGCTGGAGAACAAGCTGCTGCCTCTTCGCAGGGGGCTACGTGGGGG
 TGGTCAACAGAAGCCAGAAGGACATAGATGGAAAGAAAGACATTAAAGGCAGCCATGTTGGCAGAAAGGAA
 ATTTTTCTTTCTCACCCGGCTACAGACACATTGCTGATCGTATGGGGACCCACACCTCCAGAAGGTC
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 AGCCCTGCTGCAGATGGTCCAACAGTTTGTGTGGACTTTGAGAAGAGAATCGAAGGGTCAAGGAGATCAA
 GTAGACACCTTAGAGCTCTCTGGCGTGCTAAGATCAACCGCATTTTCCACGAACGCTTTCTTTTGAGA
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 GATCAGGACAGGGTTGTTTACTCCAGACATGGCGTTTGAGGCAATAGTTAAAAAGCAGATAGTAAAACTG
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 CTGTTTTGTCTCACTGCAGAAAGCCTGTCTGGTATAAAGACGATGAGGAGAAAAGAAAAGAAATATATG
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 TCTTCAACACCGAGCAAAGGAATGTATACAAGACTATCGCTTCTGGAGCTGGCCTGTGATTCCAGGA
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 AGCCCCACCTCCAGTCGATGACTCCTGGCTCCAACACTCCAGGAGGTCACCTCCTCCGAGCCCCACCACC
 CAACGAAGGCTGACGATAAGTGCTCCCTCCCAAGGCCACATCTGGCCGTGGCCAGCTCCCGCTATCC
 CCTCTCCAGGCCCCACTCCGGAGCTCCCCAGTTCCATTCCGTCTGGCCCATTAACCTCTTTTCCCAA
 CAGCAGTACTCCTTTGGAGCCCTCCGCAAGTTCCGTCCAGGCCACCAGGGCACCCCCAGTGTTC
 AGCCGGAGGCCACCCCATCACCAACTCGCCCACTATAATCCGTCCACTAGAATCTCACTGTTAGAC

ACCGTACGGGCGGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221573 representing NM_001038619
Red=Cloning site Green=Tags(s)

MGNREMEELIPLVNRLQDAFSALGQSCLLELPQIAVVGGSAGKSSVLENFVGRDFLPRGSGIVTRRPLV
LQLVTSKAEYAEFLHCKGKFTDFDEV RHEIEAETDRVTGMNKGISSIPINLRVYSPHVLNLTIDLPGI
TKVPVGDQPPDIEYQIRDMIMQFITRENCLILAVTPANTDLANS DALKLAKEVDPQGLRTIGVITKLDLM
DEGTDARDVLENKLLPLRRGYGVVNRSQKDIDGKKDIKAAMLAERKFFLSHPAYRHIADRMGTPHLQKV
LNQQLTNHIRDTLPNFRNKLQGQLLSIEHEVEAFKNFKPEDPTRKTKALLQMVQQFAVDFEKRIEGSGDQ
VDTLELSGGAKINRIFHERFPFEIVKMEFNEKELRREISYAIKNIHGIRTGLFTPDMAFEAIVKKQIVKL
KGP SLKSV DLMQELINTVKKCTKRLANFPRLCEETERIVANHIREREGTKDQVLLLIDIQVSYINTNH
EDFIGFANAQQRSSQVHKKSTIGNQVIRKGWLT VSNIGIMKGGSKGYWFLTAESLSWYKDDEEKEKKYM
LPLDNLKVRDVEKGFMSKHV FALFNTEQRNVYKDYRFL ELACDSQEDVDSWKASLLRAGVY PDKSVGSN
KTENDENQAENFSMDPQLERQVETIRNLVDSYMSIINKCIRDLIPKTI MHLMINNVKDFINSELLAQLY
SSEDQNTLMEESA EQARRDEMLRMYQALKEALAIIGDINTATVSTPAPPVDDSWLQHSRRSPPPSPTT
QRRLTISAPLPRPTSGRGPAPAI P SPGPHSGAPPVFRPGPLPPFPNSSDSFGAPPQVSRPTRAPPSVP
SRRPPSPTRPTIIRPLESSLLD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



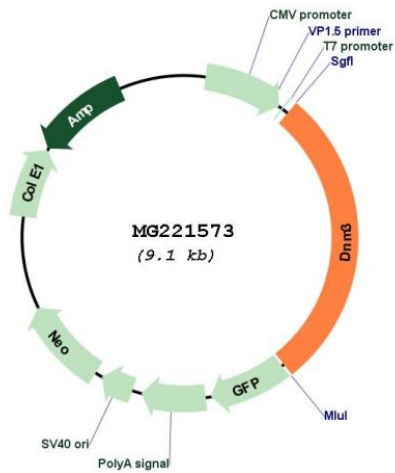
Kozac
Consensus

EcoRI BamHI KpnI RBS SgfI AscI
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag
CAAGCTTAACCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - -
 T R T R P L E M E S D - - -

PmeI FseI
- - - GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
- - - E E R V Stop

Plasmid Map:



ACCN:	NM_001038619
ORF Size:	2589 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_001038619.2
RefSeq Size:	7534 bp
RefSeq ORF:	2592 bp
Locus ID:	103967
UniProt ID:	Q8BZ98
Cytogenetics:	1 H2.1
Gene Summary:	Microtubule-associated force-producing protein involved in producing microtubule bundles and able to bind and hydrolyze GTP. Most probably involved in vesicular trafficking processes, in particular endocytosis (By similarity).[UniProtKB/Swiss-Prot Function]