

## Product datasheet for **RG230884**

### Dynamin 2 (DNM2) (NM\_001190716) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dynamin 2 (DNM2) (NM_001190716) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dynamin 2
Synonyms:	CMT2M; CMTD11; CMTDIB; DI-CMTB; DYN2; DYNII; LCCS5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230884 representing NM\_001190716  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCAACCGCGGGATGGAAGAGCTGATCCCGCTGGTCAACAACTGCAGGACGCCTTCAGCTCCATCG  
 GCCAGAGCTGCCACCTGGACCTGCCGAGATCGCTGTAGTGGGCGGCCAGAGCGCCGGCAAGAGCTCGGT  
 GCTGGAGAATTCTGGGGCCGGACTTCCTTCCCGCGGTTTACGGAATCGTCACCCGCGGCCTCTCATT  
 CTGCAGCTCATCTTCTCAAAAACAGAACATGCCGAGTTTTTGCAGTCAAGTCCAAAAAGTTTACAGACT  
 TTGATGAAGTCCGGCAGGAGATTGAAGCAGAGACCACAGGGTACGCGGGACCAACAAAGGCATCTCCCC  
 AGTGCCCATCAACCTTCGAGTCTACTCGCCACACGTGTTGAAGTACCCCTCATCGACTCCCGGGTATC  
 ACCAAGGTGCCTGTGGGCGACCAGCCTCCAGACATCGAGTACCAGATCAAGGACATGATCCTGCAGTTCA  
 TCAGCCGGGAGAGCAGCCTCATTCTGGCTGTACGCCCCCAACATGGACCTGGCCAACCTCCGACGCCCT  
 CAAGCTGGCCAAGGAAGTCGATCCCAAGGCCTACGGACCATCGGTGTCATCACAAGCTTGACCTGATG  
 GACGAGGGCACCCAGCCAGGGACGTCTTGAGAAACAAGTTGCTCCCGTTGAGAAGAGGCTACATTTGGCG  
 TGGTGAACCCGAGCCAGAAGGATATTGAGGGCAAGAAGGACATCCGTGCAGCACTGGCAGCTGAGAGGAA  
 GTTCTTCTCTCCACCCGGCCTACCGGCACATGGCCGACCGCATGGGCACGCCACATCTGCAGAAGACG  
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 AGCCCTGCTGCAGATGGTCCAGCAGTTTGGGGTGGATTTGAGAAGAGGATCGAGGGCTCAGGAGATCAG  
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 GAGGACTTCATCGGGTTTGCCAATGCCAGCAGAGGAGCAGCAGCTGAACAAGAAGAGAGCCATCCCCA  
 ATCAGGGGAGATCCTGGTGATCCGACGGGCTGGCTGACCATCAACAACATCAGCCTGATGAAAGGCGG  
 CTCCAAGGAGTACTGGTTTGTGCTGACTCCGAGTCACTGTCTGTTACAAGGATGAGGAGGAGAAAGAG  
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 ACGTCTTCGCCATCTTCAACACGGAGCAGAGAAACGTCTACAAGGACCTGCGGCAGATCGAGCTGGCCTG  
 TGACTCCAGGAAGACGTGGACAGCTGGAAGGCCTCGTTCTCCGAGCTGGCGTCTACCCCGAGAAGGAC  
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 GTACCCCGCCTGTGATGACACCTGGCTCCAGAGCGCCAGCCACAGCCCACTCCACAGCGCCGA  
 CCGGTGTCCAGCATACACCCCTGGCCGCCCCCAGCAGTGGGGGCCCACTCCAGGGCCCCCTGA  
 TTCTGTTCCCGTGGGGGAGCAGCCTCTTCTCGGCGCCCCAATCCCATCCCGCCTGGACCCAGAG  
 CGTGTGTTGCCAACAGTGACCTCTTCCAGCCCCGCTCAGATCCCATCTCGGCCAGTTCCGGATCCCCCA  
 GGGATTCCCCAGGAGTCCCGAGCAGAAGACCCCTGCTGCGCCAGCCGGCCACCATTATCCGCCAG  
 CCGAGCCATCCCTGCTCGAC

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

Protein Sequence: >RG230884 representing NM\_001190716  
 Red=Cloning site Green=Tags(s)

MGNRGMEELIPLVNKLQDAFSSIGQSCHLDLPQIAVVGGSAGKSSVLENFVGRDFLPRGSGIVTRRPLI  
 LQLIFSKTEHAFLHCKSKKFTDFDEVQRQIEAETDRVTGTNKGISPVVINLRVYSPHVLNLTIDLPGI  
 TKVPVGDQPPDIEYQIKDMILQFISRESSLILAVTPANMDLANSALKLAKEVDPQGLRTIGVITKLDLM  
 DEGTDARDVLENKLLPLRRGYIGVVNRSQKDIEGKKDIRAALAAERKFFLSHPAYRHMADRMGTPHLQKT  
 LNQQLTNHIRESLPALRSKLSQQLSLEKEVEEYKNFRPDDPTRKTKALLQMVQQFVDFEKRIEGSGDQ  
 VDTLELSGGARINRIFHERFPFELVKMEFDEKDLRREISYAIKNIHGVRTGLFTPDLAFAEIVKKQVVKL  
 KEPCLKCVDLVIQELINTVRQCTSKLSSYPRLREETERIVTTYIREREGRTKDQILLIDIEQSYINTNH  
 EDFIGFANAQQRSTQLNKKRAIPNQGEILVIRRGWLTINNI SLMKGSKEYWVFLTAESLSWKDEEKEE  
 KKYMLPLDNLKIRDVEKGFMSNKHVFAIFNTEQRNVYKDLRQIELACDSQEDVDSWKASFLRAGVYPEKD  
 QAENEDGAQENTFSMDPQLERQVETIRNLVDSYVAIINKSIRDLMPKTIMHLMINNTKAFIHHELLAYLY  
 SSADQSSLMEESADQAQRDDMLRMYHALKEALNIIGDISTSTVSTPVPVPPVDDTWLQSASSHSPTPQR  
 PVSSIHPGRPPAVRGPTPGPPLIPVPVAAAASFAPPISRPGPQSVFANSDFPAPPQIPSRPVRIPP  
 GIPPGVPSRRPPAAPSRTIIRPAEPLLD

TRTRPLE - GFP Tag - V

Restriction Sites:

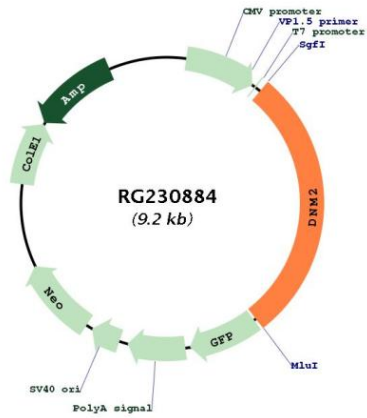
SgfI-MluI

Cloning Scheme:



<b>ACCN:</b>	NM_001190716
<b>ORF Size:</b>	2607 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001190716.1</a> , <a href="#">NP_001177645.1</a>
<b>RefSeq Size:</b>	3681 bp
<b>RefSeq ORF:</b>	2610 bp
<b>Locus ID:</b>	1785
<b>UniProt ID:</b>	<a href="#">P50570</a>
<b>Cytogenetics:</b>	19p13.2
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Endocytosis, Fc gamma R-mediated phagocytosis
<b>Gene Summary:</b>	Dynammins represent one of the subfamilies of GTP-binding proteins. These proteins share considerable sequence similarity over the N-terminal portion of the molecule, which contains the GTPase domain. Dynammins are associated with microtubules. They have been implicated in cell processes such as endocytosis and cell motility, and in alterations of the membrane that accompany certain activities such as bone resorption by osteoclasts. Dynammins bind many proteins that bind actin and other cytoskeletal proteins. Dynammins can also self-assemble, a process that stimulates GTPase activity. Five alternatively spliced transcripts encoding different proteins have been described. Additional alternatively spliced transcripts may exist, but their full-length nature has not been determined. [provided by RefSeq, Jun 2010]

Product images:



Circular map for RG230884