

Product datasheet for **RC230884**

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:	Myc-DDK
Symbol:	Dynamin 2
Synonyms:	CMT2M; CMTD11; CMTDIB; DI-CMTB; DYN2; DYNII; LCCS5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230884 representing NM_001190716
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCAACCGCGGGATGGAAGAGCTGATCCCGCTGGTCAACAACTGCAGGACGCCTTCAGCTCCATCG
 GCCAGAGCTGCCACCTGGACCTGCCGAGATCGCTGTAGTGGGCGGCCAGAGCGCCGGCAAGAGCTCGGT
 GCTGGAGAACTTCGTGGGCCGGGACTTCCTTCCCGCGGTTTACGGAATCGTCACCCGCGGCCTCTCATT
 CTGCAGCTCATCTTCTCAAAAACAGAACATGCCGAGTTTTTGCAGTCAAGTCCAAAAAGTTTACAGACT
 TTGATGAAGTCCGGCAGGAGATTGAAGCAGAGACCACAGGGTACGCGGGACCAACAAAGGCATCTCCCC
 AGTGCCCATCAACCTTCGAGTCTACTCGCCACACGTGTTGAACTTGACCCTCATCGACTCCCGGGTATC
 ACCAAGGTGCCTGTGGGCGACCAGCCTCCAGACATCGAGTACCAGATCAAGGACATGATCCTGCAGTTCA
 TCAGCCGGGAGAGCAGCCTCATTCTGGCTGTACGCCCCCAACATGGACCTGGCCAACCTCCGACGCCCT
 CAAGCTGGCCAAGGAAGTCGATCCCAAGGCCTACGGACCATCGGTGTCATCACCAAGCTTGACCTGATG
 GACGAGGGCACCCAGCCAGGGAGCTTGGAGAACAAAGTTGCTCCCGTTGAGAAGAGGCTACATTTGGCG
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 ATCAGGGGAGATCCTGGTGATCCGACGGGCTGGCTGACCATCAACAACATCAGCCTGATGAAAGGCGG
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 CCGGTGTCCAGCATACACCCCTGGCCGGCCCCAGCAGTGGGGGCCCACTCCAGGGCCCCCTGA
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 AGCCATCCCTGCTCGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230884 representing NM_001190716
 Red=Cloning site Green=Tags(s)

MGNRGMEELIPLVNLKQDAFSSIGQSCHLDLPQIAVVGGSAGKSSVLENFVGRDFLPRGSGIVTRRPLI
 LQLIFSKTEHAFLHCKSKKFTDFDEVQRQIEAETDRVTGNTKGI SPVPINLRVYSPHLNLTIDLPGI
 TKVPVGDQPPDIEYQIKDMILQFISRESSLILAVTPANMDLANSALKLAKEVDPQGLRTIGVITKLDLM
 DEGTDARDVLENKLLPLRRGYIGVVNRSQKDIIEGKKDIRAALAAERKFFLSHPAYRHMADRMGTPHLQKT
 LNQQLTNHIRESLPALRSKLQSLLSLEKEVEEYKNFRPDDPTRKTKALLQMVQQFGVDFEKRIEGSGDQ
 VDTLELSGGARINRIFHERFPFELVKMEFDEKDLRREISYAIKNIHGVRTGLFTPDLAFAEIVKKQVVKL
 KEPCLKCVDLVIQELINTVRQCTSKLSSYPRLREETERIVTTYIREREGRTKDQILLIDIEQSYINTNH
 EDFIGFANAQRSTQLNKKRAIPNQGEILVIRRGWLTINNI SLMKGSKEYWFL TAESLSWKDEEEKE
 KKYMLPLDNLKIRDVEKGFMSNKHVFAIFNTEQRNVYKDLRQIELACDSQEDVDSWKASFLRAGVYPEKD
 QAENEDGAQENTFSMDPQLERQVETIRNLVDSYVAIINKSIRDLMPKTIMHLMINNTKAFIHHELLAYLY
 SSADQSSLMEESADQAQRDDMLRMYHALKEALNIIGDISTSTVSTPVPVPPVDDTWLQSASSHSPTPQR
 PVSSIHPGRPPAVRGPTPGPPLIPVPGAASF SAPPISRPGPQSVFANSDLFPAPPQIPSRPVRIPP
 GIPPGVPRRPPAAPSRTIIRPAEPLLD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

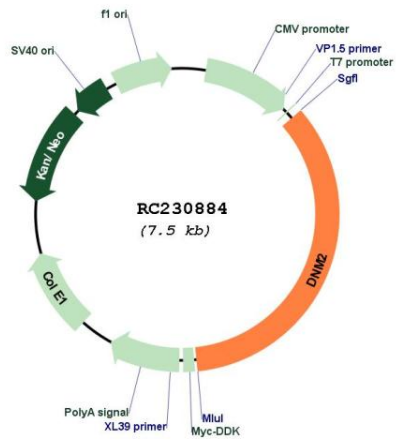
SgfI-MluI

Cloning Scheme:



ACCN:	NM_001190716
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_001190716.2
RefSeq Size:	3681 bp
RefSeq ORF:	2610 bp
Locus ID:	1785
UniProt ID:	P50570
Cytogenetics:	19p13.2
Protein Families:	Transcription Factors
Protein Pathways:	Endocytosis, Fc gamma R-mediated phagocytosis
MW:	98 kDa
Gene Summary:	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 RC230884