

Product datasheet for **SC300920**

Dynamin 2 (DNM2) (NM_001005360) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dynamin 2 (DNM2) (NM_001005360) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dynamin 2
Synonyms:	CMT2M; CMTDI1; CMTDIB; DI-CMTB; DYN2; DYNII; LCCS5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001005360 edited
 CCGAGCCGGGAGCGGGCGTCTTGCCGAGGCCCGGGCGGGGAGCAACGGCTACAGAC
 GCCGCGGGGCCAGGTCGTTGAGGGTCGGCGGGCGGGCAGGAGCGCAGGGCGCTCGGGCCG
 GGGGCCGCGGGCCATGGGCAACCGCGGGATGGAAGAGCTGATCCCGCTGGTCAACAAA
 CTGCAGGACGCCTTCAGCTCCATCGGCCAGAGCTGCCACCTGGACCTGCCGCAGATCGCT
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 TTCCTTCCCCCGGGTTCAGGAATCGTCACCCGGCGGCCTCTATTCTGCAGCTCATCTTC
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 GAAGTCCGGCAGGAGATTGAAGCAGAGACCGACAGGGTACGGGGACCAACAAAGGCATC
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 GACCTCCCGGGTATCACCAAGGTGCCTGTGGGCGACCAGCCTCCAGACATCGAGTACCAG
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 CCCGCCAACATGGACCTGGCCAACCTCCGACGCCCTCAAGCTGGCCAAGGAAGTGCATCCC
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 TTTGGGTGGATTTTGAAGAGGATCGAGGGCTCAGGAGATCAGGTGGACACTCTGGAG
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 ACAGAGCGAATCGTCACCACTTACATCCGGGAACGGGAGGGGAGAAACGAAGGACCAGATT



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ACTGTAAGTGCCTGCACTCTGTATTCTATTAATAAACTAAAAATAAAGGGAAGACGCTGCT
GGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** Please inquire
- ACCN:** NM_001005360
- Insert Size:** 3600 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001005360.1.
- 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: [NM_001005360.1](#), [NP_001005360.1](#)

RefSeq Size: 3633 bp

RefSeq ORF: 2613 bp

Locus ID: 1785

UniProt ID: [P50570](#)

Cytogenetics: 19p13.2

Protein Families: Transcription Factors

Protein Pathways: Endocytosis, Fc gamma R-mediated phagocytosis

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]

Transcript Variant: This variant (1) encodes one of the longer isoforms (1).