

Product datasheet for **SC117045**

Dynamin 2 (DNM2) (NM_004945) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dynamin 2 (DNM2) (NM_004945) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNM2
Synonyms:	CMT2M; CMTD11; CMTDIB; DI-CMTB; DYN2; DYNII; LCCS5
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >NCBI ORF sequence for NM_004945, the custom clone sequence may differ by one or more nucleotides

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ATGGGCAACCGCGGGATGGAAGAGCTGATCCCCTGGTCAACAACTGCAGGACGCCCTTCAGCTCCATCG
GCCAGAGCTGCCACCTGGACCTGCCGAGATCGCTGTAGTGGCGGCCAGAGCGCCGGAAGAGCTCGGT
GCTGGAGAACTTCGTGGCCCGGACTTCCTTCCCCGCGTTTTCAGGAATCGTCACCCGGCGCCTCTCATT
CTGCAGCTCATCTTCTCAAAAACAGAACATGCCGAGTTTTTGCAGTCAAGTCCAAAAAGTTTACAGACT
TTGATGAAGTCCGGCAGGAGATTGAAGCAGAGACCACAGGGTACGGGGACCAACAAAGGCATCTCCCC
AGTGCCCATCAACCTTCGAGTCTACTCGCCACACGTGTTGAACTTGACCCCTCATCGACTCCCGGTATC
ACCAAGGTGCCTGTGGGCGACCAGCCTCCAGACATCGAGTACCAGATCAAGGACATGATCCTGCAGTTCA
TCAGCCGGGAGAGCAGCCTCATTCTGGCTGTCACGCCGCCAACATGGACCTGGCCAACCTCCGACGCCCT
CAAGCTGGCCAAGGAAGTCGATCCCAAGGCCTACGGACCATCGGTGTCATACCAAGCTTGACCTGATG
GACGAGGGCACCGACGCCAGGGACGCTTTGGAGAACAAGTTGCTCCCGTTGAGAAGAGGCTACATTGGCG
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GTTCTTCTCTCCACCCGGCCTACCGGCACATGGCCGACCGCATGGGCACGCCACATCTGCAGAAGACC
CTGAATCAGCAACTGACCAACCACATCCGGGAGTCGCTGCCGGCCCTACGTAGCAAACTACAGAGCCAGC
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AGCCCTGCTGCAGATGGTCCAGCAGTTTGGGGTGGATTTTGAAGAGGATCGAGGGCTCAGGAGATCAG
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GTAAGCTCAGTTCCTACCCCGGTTGCGAGAGGAGACAGAGCGAATCGTCACCACTTACATCCGGGAACG
GGAGGGGAGAACGAAGGACCAGATTCTTCTGCTGATCGACATTGAGCAGTCTACATCAACACGAACCAT
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ATCAGGTGATCCGCAGGGGCTGGCTGACCATCAACAACATCAGCCTGATGAAAGGCGGCTCCAAGGAGTA
CTGTTTGTGCTGACTGCCGAGTCACTGTCTGGTACAAGGATGAGGAGGAGAAAGAGAAGATACATG
CTGCCTCTGGACAACCTCAAGATCCGTGATGTGGAGAAGGGCTTCATGTCCAACAAGCACGTCTTCGCCA
TCTTCAACACGGAGCAGAGAAACGTCTACAAGGACCTGCGGCAGATCGAGCTGGCCTGTGACTCCCAGGA
AGACGTGGACAGCTGGAAGGCCTCGTTCCTCCGAGCTGGCGTCTACCCCGAGAAGGACCAGGCAGAAAAC
GAGGATGGGGCCAGGAGAACACCTTCCATGGACCCCAACTGGAGCGGCAGGTGGAGACCATTTCGCA
ACCTGGTGGACTCATACGTGGCCATCATCAACAAGTCCATCCCGGACCTCATGCCAAAGACCATCATGCA
CCTCATGATCAACAATACGAAGGCCTTCATCCACCACGAGCTGCTGGCCTACCTATACTCCTCGGCAGAC
CAGAGCAGCCTCATGGAGGAGTCGGCTGACCAGGCACAGCGGGGACGACATGCTGCGCATGTACCATG
CCCTCAAGGAGGCGCTCAACATCATCGGTGACATCAGCACCAGCACTGTGTCCACGCCTGTACCCCGCC
TGTCGATGACACCTGGCTCCAGAGCGCCAGCAGCCACAGCCCCACTCCACAGCGCCGACCCGTTGCCAGC
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TGGGGCAGCAGCCTCTTCTCGGCGCCCCAATCCCATCCCGGCTGGACCCAGAGCGTGTTCGCA
CAGTGACCTTCTCCAGCCCCGCTCAGATCCCATCTCGGCCAGTTCGGATCCCCCAGGATTCGCCCA
GGAGTGCCAGCAGAAGACCCCTGCTGCGCCAGCCGCCACCATTATCCGCCAGCCGAGCCATCCC
TGCTCGACTAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004945 unedited</p> <pre>GGGTCAACATTTGTATACGACTCACTATAGGGCGGCCGATTTCGGCCGAGGCCGAGCCG GGAGCGGGCGTCTTGCCGAGGCCCGGGCGGGGAGCAACGGCTACAGACGCCCGGG GCCAGGTGCTTGGAGGTTCGGCGGGCGGGGAGGAGCGCAGGGCGCTCGGGCCGGGGCCG CGGCGCCATGGCAACCCGGGATGGAAGAGCTGATCCCGCTGGTCAACAACTGCAGGA CGCCTTCAGCTCCATCGGCCAGAGCTGCCACCTGGACCTGCCGAGATCGCTGTAGTGGG CGGCCAGAGCCCGCAAGAGCTCGGTGCTGGAGAACTTCGTGGGCCGGGACTTCCTTCC CCGCGGTTTCAGGAATCGTCACCCGGCGCCTCTCATTCTGCAGCTCATCTTCTCAAAAAC AGAACATGCCAGTTTTTGCAGTCAAGTCCAAAAAGTTTACAGACTTTGATGAAGTCCG GCAGGAGATTGAAGCAGAGACCGACAGGGTACACGGGGACCAACAAAGGCATCTCCCCAGT GCCCATCAACCTTCGAGTCTACTCGCCACACGTGTTGAACTTGACCTCATCGACCTCCC GGGTATACCAAGGTGCCTGTGGGCGACCAGCCTCCAGACATCGAGTACCAGATCAAGGA CATGATCTGCAGTTCATCAGCCGGGAGAGCAGCCTATTCTGGCTGTCACGCCCGCCAA CATGGACTGGCCAACTCGACGCCCTCAAGCTGGCCAAGGAAAGTCGATCCCCAGGCC TACGGACCATTCGGTGCATACCAAGCTTGACCTGATGGACGAGGGCACCGACGCCAGG GACGTCCTGGAGAACAGTTGCTCCCGTTGAGAAGAGCTACATTGGCGGTGGTACCCGAG CCAGAAGATATGN</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004945 unedited</p> <pre>NTTCNTGNCCCGGCCCAATCTAGGATCGAGNTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTAAACCAGCAGGGTCTTCTTTTATTTTAGTTTATTAATAAAAACACAGAGGCAG GCACCTACAGGGGTCAAACCTGACCGAGGAGTGGGTGAGGTCTCCTAAAAAGAGGCCGCC CTGGGCCACCCATCAGGGAGGCATGGGCGAAAGCTGAAAGGCCCCCAAAACCCCGCC ACCACCACCCACATAGCCCAAGCCAGCCACCCTGGGGGACCCAGGAGGAGGAGGAGAA AGGAATAGGGCAAGGCCGGCCCGGGCCAACGGTTCCGGGCCTAGCAAAGGCACCTTTGGC AGCCGAGGCTGGGCCAGGCTCAGGCTGTGTGGTTAATATGGCCGAAAGGACTATGTACA CCTCAGGCCTGCCAGTGGGCACTACCGAGCCACTGGGCCAGGCTTGCCGTTGGGGAGC TCCTGCTAAGGGGAAGTTGATATACCCCTGCACCCAGCAAGGCTGGGGATGTAGGCGC CCTTGGTGCCCGCACTTATAGAAGGCCTGCCCTACATGGGCTTTCCCAGCCCAAGAAGAC CTTGGTAGAGTCCCCCAGCCTGGACCCTCATTCAGGATGGTGTCAAGGGTTCTGGGT CCCCCTCTGCACCTGAGACTCCATCCCCAAAGTGCAACACCCAGCGCCCTGCCT GGAGCTCCAGGGCCCTTTGCGCAGGGCGGGTCCAGCCAGGCACAGGGGCCGGCCCTGA ACGGGGGACGCGTAAGGAAAAGCCAGGGCTGCCCTGAAAGCCTGTCCACATAGGGCGG GGGGAGGCCCAAACTGAACTCCTGCCCGGGTTCCGTGAGGGCCCCCGAAGCAGCC CCTTGAGGCCAATCAACCAGGATGGCTCGTTGCCGTAATGGGGCCC</pre>
Restriction Sites:	ECORI-NOT
ACCN:	NM_004945
Insert Size:	4000 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).
RefSeq:	NM_004945.2 , NP_004936.2
RefSeq Size:	3621 bp
RefSeq ORF:	2601 bp
Locus ID:	1785

UniProt ID:	<u>P50570</u>
Domains:	dynammin_2, dynammin, PH, GED
Protein Families:	Transcription Factors
Protein Pathways:	Endocytosis, Fc gamma R-mediated phagocytosis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an alternate in-frame exon, compared to variant 1. The resulting protein (isoform 3) is shorter, compared to isoform 1.</p>