

Product datasheet for **SC300909**

Dynamin 1 (DNM1) (NM_001005336) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dynamin 1 (DNM1) (NM_001005336) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dynamin 1
Synonyms:	DEE31; DNM; EIEE31
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001005336 edited
 AGTCGGGGCGCGGCTGCAGCGGCGGAGCCGGAGTCGGAGCCGGGAGCGCTAGCGGCAG
 CCGGATCGCAGCCTGCGGGGCCAGCCGACCCATGGGCAACCGCGCATGGAAGATCTCA
 TCCCGCTGGTCAACCGGCTGCAAGACGCCTTCTCTGCCATCGGCCAGAACGCGGACCTCG
 ACCTGCCGAGATCGCTGTGGTGGGCGGCCAGAGCGCCGCAAGAGCTCGGTGCTCGAGA
 ATTTTCGTAGGCAGGGACTTCTTGCCCTCGAGGATCTGGCATTGTCACCCGACGTCCCCTGG
 TCTTGACGCTGGTCAATGCAACCACAGAATATGCCGAGTTCCTGCACTGCAAGGAAAGA
 AATTCACCGACTTCGAGGAGGTGCGCCTTGAGATCGAGGCCGAGACCGACAGGGTACCCG
 GCACCAAC : AAGGGCATCTCGCCGGTGCCTATC : AACCTCCGCTCTACTCGCCGACGT
 GCTGAACCTGACCCTGGTGGACCTGCCCGAATGACCAAGTCCCCTGGGGACCAACC
 TCCCGACATCGAGTTCAGATCCGAGACATGCTTATGCAGTTTGTACCAAGGAGAACTG
 CCTCATCTGGCCGTGTCCCCGCCAACTCTGACCTGGCCAATTCTGACGCCCTCGAGGT
 CGCCAAGGAGGTGGACCCCAAGGCCAGCGCACCATCGGGGTCATACCAAGCTGGACCT
 GATGGACGAGGGCACAGATGCCCGTGTGTGCTGGAGAACAAGCTGCTCCCCCTGCGCAG
 AGGCTACATTGGAGTGGTGAACCGGAGCCAGAAGGACATTGATGGCAAGAAGGACATTAC
 CGCCGCTTGGCTGTGAACGAAAGTTCCTCTCCATCCATCTTATCGCCACTTGGC
 TGACCGTATGGGCACGCCCTACCTGCAGAAGTCTCAATCAGCAACTGACGGACCACAT
 CCGGGACACACTGCCGGGGCTGCGGAACAAGCTGCAGAGCCAGCTACTGTCCATTGAGAA
 GGAGGTGGAGGAATACAAGAATTCCGCCCTGATGACCCAGCTCGCAAGACCAAGGCCCT
 GCTGCAGATGGTCCAGCAGTTCGCCGTAGACTTTGAGAAGCGCATTGAGGGCTCAGGAGA
 TCAGATCGACACCTACGAACTGTGAGGGGAGCCGCATTAACCGAATCTTCCACGAGCG
 CTTCCCTTTCGAGCTGGTCAAGATGGAGTTTGTGAGAAGGAACTCCGAAGGGAGATCAG
 CTATGCTATCAAGAATATCCATGGCATTAGAACGGGGCTGTTTACCCAGACATGGCCTT
 TGAGACCATTGTGAAAAAGCAGGTGAAGAAGATCCGAGAACCCTGTCTCAAGTGTGTGGA
 CATGGTTATCTCGGAGCTAATCAGCACCGTTAGACAGTGCACCAAGAAGCTCCAGCAGTA
 CCCGCGGCTACGGGAGGAGATGGAGCGCATCGTGACCACCCACATCCGGGAGCGGAGGG
 CCGCACTAAGGAGCAGGTGATGCTTCTCATCGATATCGAGCTGGCTTACATGAACACCAA



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CCATGAGGACTTCATAGGCTTTGCCAATGCTCAGCAGAGGAGCAACCAGATGAACAAGAA
GAAGACTTCAGGGAACCAGGATGAGATTCTGGTCATCCGCAAGGGCTGGCTGACTATCAA
TAATATTGGCATCATGAAAGGGGCTCCAAGGAGTACTGGTTTGTGCTGACTGCTGAGAA
TCTGTCTTGGTACAAGGATGATGAGGAGAAAGAGAAGAAATACATGCTGTCTGTGGACAA
CCTCAAGCTGCGGGACGTGGAGAAGGGCTTTATGTGCGAGCAAGCATATCTTTGCCCTCTT
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ACAGGAGGAGGTGGACAGCTGGAAGGCCCTCCTTCTGAGGGCTGGCGTGTACCTGAGCG
TGTTGGGGACAAAGAGAAAGCCAGCGAGACCGAGGAGAATGGCTCCGACAGCTTCATGCA
TTCCATGGACCCACAGCTGGAACGGCAAGTGGAGACCATCCGGAATCTTGTGGACTCATA
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TGACCCCTGAGGAGCGTCAGCCATGCCGATCGGGTCAGGCAAGTCCATCCCGTCTGAGA
GCCCCAGGCCCCCTTCGACCTTAAACAGATCCCTCCTTCTCGGAGACCTCCCTTTC
CAAGCCTGCCTGGACGGCTGTTCTGTGACTTGACAGTGGCTCCCCAGCCCCAAAGCCAG
CCCCCTTTCATCTGTGACTTAATCTGTTGTAGTGGTGGAGTGATACATTAGGTGTGACCG
TTGGTGAAAACCTGTGCCCTTCTGTGGTATGCCCTTGCCTGTTCTATAAATATCTATA
AATACTCATATATACACACCTACACATGGCCAACCGCCTCGCCTTAGCGCTGGGAAT
CAGTCACTGTGCTATCCTTGTGGAGTCTTGTGGCCAACTACCAGAGAACGCTGTCCCCC
GACATCCCACTCCAAAGTGTGCCACCTCCAGTGAGCCTCCTTGTGATGCCCGGCTGTGG
ACAGCCAGCCCCGCCATCCCTCCACCCCTACCAAGCATGGGGGTGCTGTGCAGGCAG
CCGTGTGGCTGACAGTTTCTACCAGTCTGCTGTCCCTCGGCTGAGAATAAAACCCATT
TCTGGATGAAAAAAAAAAAAA
    
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Restriction Sites:

Please inquire

ACCN:

NM_001005336

Insert Size:

3200 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

The ORF of this clone has been fully sequenced and found to contain 3 SNPs compared with NM_001005336.1.

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:	<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:	<u>NM_001005336.1, NP_001005336.1</u>
RefSeq Size:	3253 bp
RefSeq ORF:	2556 bp
Locus ID:	1759
UniProt ID:	<u>Q05193</u>
Cytogenetics:	9q34.11
Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis, Fc gamma R-mediated phagocytosis
Gene Summary:	<p>This gene encodes a member of the dynamin subfamily of GTP-binding proteins. The encoded protein possesses unique mechanochemical properties used to tubulate and sever membranes, and is involved in clathrin-mediated endocytosis and other vesicular trafficking processes. Actin and other cytoskeletal proteins act as binding partners for the encoded protein, which can also self-assemble leading to stimulation of GTPase activity. More than sixty highly conserved copies of the 3' region of this gene are found elsewhere in the genome, particularly on chromosomes Y and 15. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) includes an alternate exon in the 3' coding region that results in a frameshift and an early stop codon, compared to variant 1. The resulting isoform (2), also known as internal form 2 and the short C-terminal form, is shorter and has a distinct C-terminus, compared to isoform 1.</p>