

## Product datasheet for **SC337571**

### **Dynamin 1 (DNM1) (NM\_001288737) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dynamin 1 (DNM1) (NM_001288737) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNM1
Synonyms:	DEE31; DNM; EIEE31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001288737, the custom clone sequence may differ by one or more nucleotides

```

ATGGGCAACCGCGCATGGAAGATCTCATCCCCTGGTCAACCGGCTGCAAGACGCCTTCTCTGCCATCG
GCCGAACGCGGACCTCGACCTGCCGACAGATCGCTGTGGTGGCGGCCAGAGCGCCGGCAAGAGCTCGGT
GCTCGAGAAATTTGCTAGGCAGGGACTTCTTGCCCTCGAGGATCTGGCATTGTCACCCGACGTCCTTGGTC
TTGCAGCTGGTCAATGCAACCACAGAATATGCCGAGTTCCTGCACTGCAAGGGAAAAGAAATTCACCGACT
TCGAGGAGGTGCGCCTTGAGATCGAGGCCGAGACCCGACAGGGTCAACCGCACCAACAAGGCATCTCGCC
GGTGCCTATCAACCTCCGCGTCTACTCGCCGACGTGCTGAACCTGACCTGGTGGACCTGCCCGGAATG
ACCAAGGTCCCGTGGGGACCAACCTCCCGACATCGAGTTCAGATCCGAGACATGCTTATGCAGTTTG
TCACCAAGGAGAAGTGCCTCATCTGGCCGTGTCCCCGCCAACTCTGACCTGGCCAATTCTGACGCCCT
CAAGGTCGCCAAGGAGGTGGACCCCGAGGCCAGCGCACCATCGGGTTCATACCAAGCTGGACCTGATG
GACGAGGGCACAGATGCCCGTGTGTGCTGGAGAACAGCTGCTCCCCCTGCGCAGAGGCTACATTGGAG
TGGTGAACCGGAGCCAGAAGGACATTGATGGCAAGAAGGACATTACCGCCGCTTGGCTGCTGAACGAAA
GTTCTTCTCTCCCATCCATCTTATCGCCACTTGGCTGACCGTATGGGCACGCCCTACCTGCAGAAGGTC
CTCAATCAGCAACTGACGAACCACATCCGGGACACACTGCCGGGGCTGCGGAACAAGCTGCAGAGCCAGC
TACTGTCCATTGAGAAGGAGGTGGAGGAATACAAGAACTTCGCCCTGATGACCCAGCTCGCAAGACCAA
GGCCCTGCTGCAGATGGTCCAGCAGTTCGCCGTAGACTTTGAGAAGCGCATTGAGGGCTCAGGAGATCAG
ATCGACACCTACGAACTGTCAGGGGGAGCCCGCATTAAACCGAATCTTCCACGAGCGCTTCCCTTTGAGC
TGGTCAAGATGGAGTTTGTGATGAGAAGGAACTCCGAAGGGAGATCAGCTATGCTATCAAGAATATCCATGG
CATTAGGACGGCCCTCTTACACCTGACCTCGCTTTTGAAGCCACAGTAAAAAGCAGGTGCAGAAAGCTC
AAAGACCCAGTATCAAGTGTGTGGATATGGTAGTCAGTGAGTACAGCCACCATCAGAAGGTGAGCG
AAAAGTCCAGCAGTACCCGCGGCTACGGGAGGAGATGGAGCGCATCGTGACCACCCATCCGGGAGCG
CGAGGGCCGCACTAAGGAGCAGGTGATGCTTCTCATCGATATCGAGCTGGCTTACATGAACCAACCAT
GAGGACTTCATAGGCTTTGCCAATGCTCAGCAGAGGAGCAACCAGATGAACAAGAAGAAGACTTCAGGGA
ACCAGGATGAGATTCTGGTCATCCGCAAGGGCTGGCTGACTATCAATAATATTGGCATCATGAAAGGGGG
CTCCAAGGAGTACTGGTTTGTGCTGACTGCTGAGAATCTGTCTGGTACAAGGATGATGAGGAGAAAGAG
AAGAAATACATGCTGTCTGTGGACAACCTCAAGCTGCGGGACGTGGAGAAGGGCTTTATGTCGAGCAAGC
ATATCTTTGCCCTCTTTAACACGGAGCAGAGGAATGTCTACAAGGATTATCGGCAGCTGGAGCTAGCCTG
TGAGACACAGGAGGAGGTGGACAGCTGGAAGGCCCTCCTTCTGAGGGCTGGCGTGTACCTGAGCGTGT
GGGGACAAAGAGAAAGCCAGCGAGACCGAGGAGAATGGCTCCGACAGCTTCATGCATTCCATGGACCCAC
AGCTGGAACGGCAAGTGGAGACCATCCGGAATCTTGTGGACTCATACATGGCCATTGTCAACAAGACCGT
GAGGGACCTCATGCCAAGACCATCATGCACCTCATGATTAACAATAACCAAGGAGTTCATCTTCTCGGAG
CTGCTGGCCAACCTGTAICTCGTGTGGGGACCAGAACACGCTGATGGAGGAGTCCGGCGGAGCAGGCACAGC
GGCGGACGAGATGCTGCGCATGTACCACGCACTGAAGGAGGGCGCTCAGCATCATCGCGGACATCAACAC
GACCACCGTCAGCACGCCATGCCCCCGCCCGTGGACGACTCTGGTGCAGGTGCAGAGCGTACCGGCC
GGACGCAGGTGCCCCACGTCCAGCCCCACGCCGACGCCGAGCCCCCGCCGTGCCCCAGCCCGGCCCG
GGTCGCGGGGCCCTGCTCCTGGGCTCCGCTGCTGGTCCGCCCTGGGGGGGGCGCCCCCGTGCCTC
CAGGCCGGGGGCTTCCCTGACCTTTTCGGCCCTCCCTCAGGTGCCCTCGCGCCCCAACCGCGCCCCG
CCCGGGTCCCCAGAATCACTATCAGTGACCCCTGA
    
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001288737

**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).

<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>	<u><a href="#">NM_001288737.1</a></u> , <u><a href="#">NP_001275666.1</a></u>
<b>RefSeq Size:</b>	3297 bp
<b>RefSeq ORF:</b>	2556 bp
<b>Locus ID:</b>	1759
<b>UniProt ID:</b>	<u><a href="#">Q05193</a></u>
<b>Cytogenetics:</b>	9q34.11
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Endocytosis, Fc gamma R-mediated phagocytosis
<b>Gene Summary:</b>	<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 (3) lacks an internal alternate in-frame exon, and contains an alternate in-frame exon, and 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 protein (isoform 3) is shorter and has a distinct C-terminus, compared to isoform 1. Variants 3 and 4 encode the same protein.</p>