

## Product datasheet for **RC239677**

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

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>RC239677 representing NM\_001288737  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCAACCGCGCATGGAAGATCTCATCCCGCTGGTCAACCGGCTGCAAGACGCTTCTCTGCCATCG  
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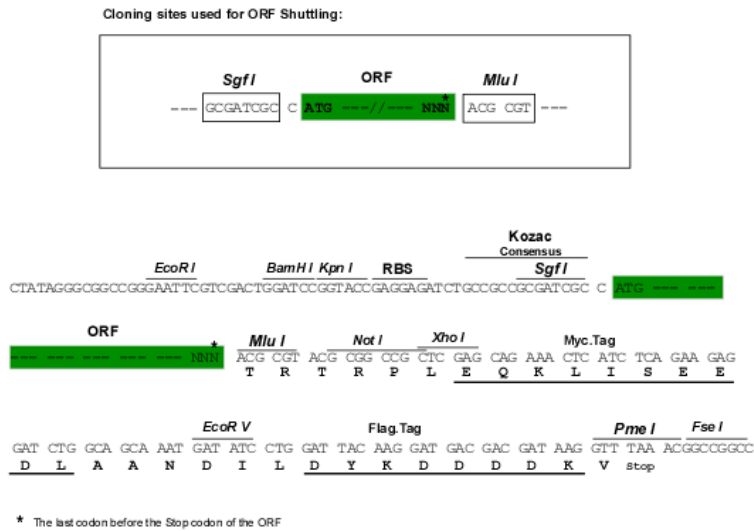
Protein Sequence: >RC239677 representing NM\_001288737  
Red=Cloning site Green=Tags(s)

MGNRGMEDLIPLVNRLQDAFSAIGQNADLDLPQIAVVGQSAGKSSVLENFVGRDFLPRGSGIVTRRPLV  
LQLVNATTEYAEFLHCKGKKFTDFEEVRLIEAETDRVTGTNKGISPVPINLRVYSPHVLNLTLDLPGM  
TKVPVGDQPPDIEFQIRDMLMQFVTKENCLILAVSPANSDLANSDALKVAKEVDPQGQRTIGVITKLDLM  
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LNQQLTNHIRDTLPGLRNKLSQQLLSIEKEVEEYKNFRPDDPARKTKALLQMVQQFAVDFEKRIEGSGDQ  
IDTYELSGGARINRIFHERFPFELVKMEFDEKELRREISYAIKNIHGIRTGLFTPDLAFEATVKKQVQKL  
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EDFIGFANAQQRSNQMNKKKTSGNQDEILVIRKGWLTINNIGIMKGGKEYWFVLTAEENLSWYKDDDEEKE  
KKYMLSVDNLKLRDVEKGFMSKHFALFNTEQRNVYKDYRQLELACETQEEVDSWKASFLRAGVYPERV  
GDKEKASETEENGSDSFMSMDPQLERQVETIRNLVDSYMAIVNKTVRDLMPKTIIMHLMINNTKEFIFSE  
LLANLYSCGDQNTLMEESAQAQRREMLRMYHALKEALSIIIGDINTTTVSTPMPPPVDSDWLQVQSVPA  
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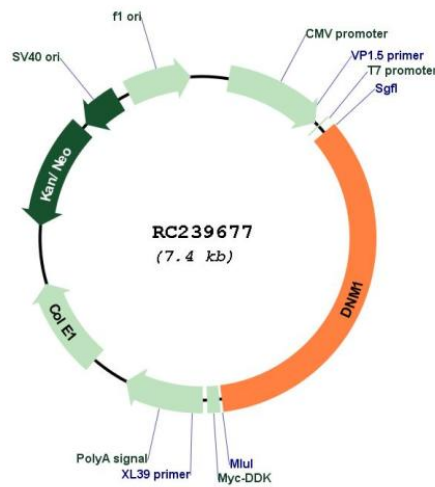
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

## Cloning Scheme:



## Plasmid Map:



<b>ACCN:</b>	NM_001288737
<b>ORF Size:</b>	2553 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001288737.2</a>
<b>RefSeq Size:</b>	3297 bp
<b>RefSeq ORF:</b>	2556 bp
<b>Locus ID:</b>	1759
<b>UniProt ID:</b>	<a href="#">Q05193</a>
<b>Cytogenetics:</b>	9q34.11
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Endocytosis, Fc gamma R-mediated phagocytosis
<b>MW:</b>	96.3 kDa
<b>Gene Summary:</b>	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]