

Product datasheet for **RC239678**

Dynamin 1 (DNM1) (NM_001288738) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dynamin 1 (DNM1) (NM_001288738) 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:

>RC239678 representing NM_001288738
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCAACCGCGCATGGAAGATCTCATCCCGCTGGTCAACCGGCTGCAAGACGCCTTCTCTGCCATCG
 GCCAGAACCGCGACCTCGACCTGCCGAGATCGCTGTGGTGGCGGCCAGAGCGCCGCAAGAGCTCGGT
 GCTCGAGAATTTCTAGGCAGGGACTTCTTGCCTCGAGGATCTGGCATTGTCACCCGACGTCCTCCCTGGTC
 TTGCAGCTGGTCAATGCAACCACAGAATATGCCGAGTTCCTGCACTGCAAGGAAAGAAATTCACCGACT
 TCGAGGAGGTGCGCCTTGAGATCGAGGCCGAGACCAGGGTCAACCGCACCAACAAGGCATCTCGCC
 GGTGCCTATCAACCTCCGCTCTACTCGCCGACGTGCTGAACCTGACCTGGTGGACCTGCCCGGAATG
 ACCAAGTCCCGTGGGGACCAACCTCCCGACATCGAGTTCAGATCCGAGACATGCTTATGCAGTTTG
 TCACCAAGGAGAACTGCCTCATCTGGCCGTGTCCTCCCGCAACTCTGACCTGGCAATTCTGACGCCCT
 CAAGTTCGCCAAGGAGGTGGACCCAGGGCCAGCGCACCATCGGGTCAACCAAGCTGGACCTGATG
 GACGAGGGCACAGATGCCCGTATGTGCTGGAGAACAAGCTGCTCCCGTGCAGAGGGTACATTTGGAG
 TGGTGAACCGGAGCCAGAAGGACATTGATGGCAAGAAGGACATTACCGCCGCTTGGCTGCTGAACGAAA
 GTTCTTCTCTCCATCCATCTTATCGCCACTTGGCTGACCGTATGGGCACGCCCTACCTGCAGAAGGTC
 CTCAATCAGCAACTGACGAACCACATCCGGGACACACTGCCGGGCTGCGGAACAAGCTGCAGAGCCAGC
 TACTGTCCATTGAGAAGGAGGTGGAGGAATACAAGAACTTCCGCCTGATGACCCAGCTCGCAAGACCA
 GGCCCTGCTGCAGATGGTCCAGCAGTTCGCCGTAGACTTTGAGAAGCGCATTGAGGGCTCAGGAGATCAG
 ATCGACACCTACGAAGTGTGAGGGGAGCCCGCATTAAACCGAATCTTCCACGAGCGCTTCCCTTTCGAGC
 TGGTCAAGATGGAGTTTGTGAGAAGAACTCCGAAGGGAGATCAGCTATGCTATCAAGAATATCCATGG
 CATTAGGACGGGCTCTTACACCTGACCTCGCTTTTGAAGCCACAGTGAAAAAGCAGGTGCAGAAGCTC
 AAAGAGCCAGTATCAAGTGTGTGGATATGGTAGTCAGTGAAGTCAAGCCACCATCAGAAAAGTGTAGCG
 AAAAGTCCAGCAGTACCGCGGCTACGGGAGGAGATGGAGCGCATCGTGACCACCCACATCCGGGAGCG
 CGAGGGCCGCACTAAGGAGCAGGTATGCTTCTCATCGATATCGAGCTGGCTTACATGAACCAACCAT
 GAGGACTTCATAGGCTTTGCCAATGCTCAGCAGAGGAGCAACCAGATGAACAAGAAGAAGACTTCAGGGA
 ACCAGGATGAGATTCTGGTATCCGCAAGGGCTGGCTGACTATCAATAATATTGGCATCATGAAAGGGGG
 CTCCAAGGAGTACTGGTTTGTGCTGACTGCTGAGAATCTGTCTGGTACAAGGATGATGAGGAGAAAGAG
 AAGAAATACATGCTGTCTGTGGACAACCTCAAGCTGCGGGACGTGGAGAAGGGCTTTATGTGAGCAAGC
 ATATCTTTGCCCTCTTTAACACGGAGCAGAGGAATGTCTACAAGGATTATCGGCAGCTGGAGCTAGCCTG
 TGAGACACAGGAGGAGGTGGACAGCTGGAAGGCCTCCTTCTGAGGGCTGGCGTGTACCCTGAGCGTGT
 GGGGACAAAGAGAAAGCCAGCGAGACCGAGGAGAATGGCTCCGACAGCTTCATGCATTCCATGGACCCAC
 AGCTGGAACGGCAAGTGGAGACCATCCGGAATCTTGTGGACTCATACATGGCCATTGTCAACAAGACCGT
 GAGGGACCTCATGCCAAGACCATATGCACCTCATGATTAACAATACCAAGGAGTTCATCTTCTCGGAG
 CTGCTGGCCAACCTGTACTCGTGTGGGGACCAGAACACGCTGATGGAGGAGTCGGCGGAGCAGGCACAGC
 GCGCGACGAGATGCTGCGCATGTACCACGCACTGAAGGAGGCGCTCAGCATCATCGCGACATCAACAC
 GACCACCGTCAGCACGCCATGCCCGCCCGTGGACGACTCCTGGCTGCAGGTGCAGAGGCTACCGGCC
 GGACGCAGGTCCGCCACGTCCAGCCCCACGCCGAGCGCCGAGCCCCCGCGTGCCTCCCGCCGCCCCG
 GGTGCGGGGCCCTGCTCCTGGGCTCCGCTGCTGGTCCGCCCTGGGGGGGGCCCGCCCGTGCCTC
 CAGGCCGGGGCTTCCCTGACCTTTCCGCCCCTCCCGCTCAGGTGCCCTCGCGCCCAACCGCGCCCCG
 CCCGGGTCCCCAGAATCACTATCAGTGACCCC

ACCGTACGGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239678 representing NM_001288738
Red=Cloning site Green=Tags(s)

MGNRGMEDLIPLVNRLQDAFSAIGQNADLDLPQIAVVGGSAGKSSVLENFVGRDFLPRGSGIVTRRPLV
LQLVNATTEYAEFLHCKGKFTDFEEVRLIEAETDRVTGTNKGISPVPINLRVYSPHVLNLTLDLPGM
TKVPVGDQPPDIEFQIRDMLMQFVTKENCLILAVSPANSDLANSALKVAKEVDPQGQRTIGVITKLDLM
DEGTDARDVLENKLLPLRRGYIGVVNRSQKDIDGKKDITAAALAAERKFFLSHPSYRHLADRMGTPYLQKV
LNQQLTNHIRDTLPGLRNKLSQQLLSIEKEVEEYKNFRPDDPARKTKALLQMVQQFAVDFEKRIEGSGDQ
IDTYELSGGARINRIFHERFPFELVKMEFDEKELRREISYAIKNIHGIRTGLFTPDLAFEATVKKQVQKL
KEPSIKCVDMMVSEL TATIRKCSEKLQYPRLREEMERIVTTHIREREGRTKEQVMLLIDIELAYMNTNH
EDFIGFANAQQRSNQMNKKKTSGNQDEILVIRKGWLTINNIGIMKGSKEYWFLTAENLSWYKDDEEKE
KKYMLSVDNLKLRDVEKGFMSKHFALFNTEQRNVYKDYRQLELACETQEEVDSWKASFLRAGVYPERV
GDKEKASETEENGSDSFMSMDPQLERQVETIRNLVDSYMAIVNKTVRDLMPKTIIMHLMINNTKEFIFSE
LLANLYSCGDQNTLMEESAQAQRREMLRMYHALKEALSIIIGDINTTTVSTPMPPPVDSDWLQVQSVPA
GRRSPTSSPTQRRAPAVPPARPGSRGAPGPPPAGSALGGAPPVPSRPGASDPDFGPPPQVPSRPNRAP
PGVPRITISDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

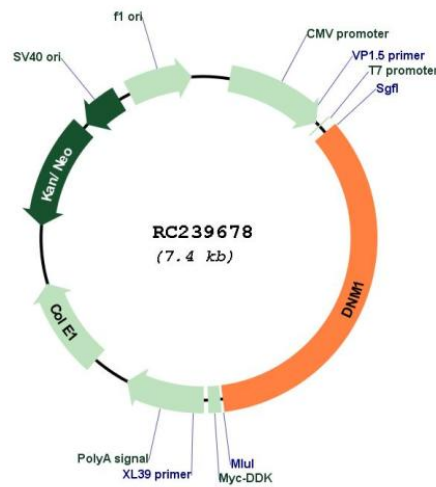
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001288738
ORF Size:	2553 bp
OTI Disclaimer:	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:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001288738.2
RefSeq Size:	3942 bp
RefSeq ORF:	2556 bp
Locus ID:	1759
UniProt ID:	Q05193
Cytogenetics:	9q34.11
Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis, Fc gamma R-mediated phagocytosis
MW:	96.3 kDa
Gene Summary:	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]