

Product datasheet for **RC206284**

Dynamin 1 (DNM1) (NM_001005336) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dynamin 1 (DNM1) (NM_001005336) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dynamin 1
Synonyms:	DEE31; DNM; EIEE31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC206284 representing NM_001005336
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCAACCGCGCATGGAAGATCTCATCCCGCTGGTCAACCGCTGCAAGACGCTTCTCTGCCATCG
 GCCAGAACCGCGACCTCGACCTGCCGCAGATCGCTGTGGTGGCGGCCAGAGCGCCGCAAGAGCTCGGT
 GCTCGAGAATTTCTAGGCAGGGACTTCTTGCCTCGAGGATCTGGCATTGTCACCCGACGTCCTCCCTGGT
 TTGCAGCTGGTCAATGCAACCACAGAATATGCCGAGTTCCTGCACTGCAAGGAAAGAAATTCACCGACT
 TCGAGGAGGTGCGCCTTGAGATCGAGGCCGAGACCACAGGGTCAACCGCACCAACAAGGCATCTCGCC
 GGTGCCTATCAACCTCCGCTCTACTCGCCGACGTGCTGAACCTGACCTGGTGGACCTGCCCGGAATG
 ACCAAGTCCCGTGGGGACCAACCTCCCGACATCGAGTTCAGATCCGAGACATGCTTATGCAGTTTG
 TCACCAAGGAGAACTGCCTCATCTGGCCGTGTCCTCCCGCAACTCTGACCTGGCAATTCTGACGCCCT
 CGAGGTCGCCAAGGAGGTGGACCCCGAGGCCAGCGCACCATCGGGTCAACCAAGCTGGACCTGATG
 GACGAGGGCACAGATGCCCGTGTGTGTTGAGAAACAAGCTGCTCCCGTGCAGAGGGTACATTTGGAG
 TGGTGAACCGGAGCCAGAAGGACATTGATGGCAAGAAGGACATTACCGCCGCTTGGCTGCTGAACGAAA
 GTTCTTCTCTCCATCCATCTTATCGCCACTTGGCTGACCGTATGGGCACGCCCTACCTGCAGAAGGTC
 CTCAATCAGCAACTGACGGACCACATCCGGGACACACTGCCGGGCTGCGGAACAAGCTGCAGAGCCAGC
 TACTGTCCATTGAGAAGGAGGTGGAGGAATACAAGAACTCCGCCCTGATGACCCAGCTCGCAAGACCA
 GGCCCTGCTGCAGATGGTCCAGCAGTTCGCCGTAGACTTTGAGAAGCGCATTGAGGGCTCAGGAGATCAG
 ATCGACACCTACGAAGTGTGAGGGGAGCCCGCATTAAACGAATCTTCCAGGAGCGCTTCCCTTTGAGC
 TGGTCAAGATGGAGTTTGTGAGAAGAACTCCGAAGGAGATCAGCTATGCTATCAAGAAATCCATGG
 CATTAGAACGGGCTGTTTACCCAGACATGGCCTTTGAGACCATTGTGAAAAAGCAGGTGAAGAAGATC
 CGAGAACCGTGTCTCAAGTGTGTGGACATGGTTATCTCGAGCTAATCAGCACCGTTAGACAGTGCACCA
 AGAAGCTCCAGCAGTACCCGCGCTACGGGAGGAGATGGAGCGCATCGTGACCACCACATCCGGGAGCG
 CGAGGGCCGCACTAAGGAGCAGGTATGCTTCTCATCGATATCGAGCTGGCTTACATGAACCAACCAT
 GAGGACTTCATAGGCTTTGCCAATGCTCAGCAGAGGAGCAACCAGATGAACAAGAAGAAGACTTCAGGGA
 ACCAGGATGAGATTCTGGTCATCCGAAGGGCTGGCTGACTATCAATAATATTGGCATCATGAAAGGGGG
 CTCCAAGGAGTACTGGTTTGTGCTGACTGCTGAGAATCTGTCTGGTACAAGGATGATGAGGAGAAAGAG
 AAGAAATACATGCTGTCTGTGGACAACCTCAAGCTGCGGGACGTGGAGAAGGGCTTTATGTGAGCAAGC
 ATATCTTTGCCCTCTTTAACACGGAGCAGAGGAATGTCTACAAGGATTATCGGCAGCTGGAGCTAGCCTG
 TGAGACACAGGAGGAGGTGGACAGCTGGAAGGCCTCCTTCTGAGGGCTGGCGTGTACCCTGAGCGTGT
 GGGGACAAAGAGAAAGCCAGCGAGACCGAGGAGAATGGCTCCGACAGCTTATGCATTCCATGGACCCAC
 AGCTGGAACGGCAAGTGGAGACCATCCGGAATCTTGTGGACTCATACATGGCCATTGTCAACAAGACCGT
 GAGGGACCTCATGCCAAGACCATATGCACCTCATGATTAACAATACCAAGGAGTTCATCTTCTCGGAG
 CTGCTGGCCAACCTGTACTCGTGTGGGGACCAGAACACGCTGATGGAGGAGTCGGCGGAGCAGGCACAGC
 GGCAGCAGGATGCTGCGCATGTACCACGCACTGAAGGAGGCGCTCAGCATCATCGCGACATCAACAC
 GACCACCGTCAGCACGCCATGCCCGCCCGTGGACGACTCCTGGCTGCAGGTGCAGAGCGTACCGGCC
 GGACGCAGGTCCGCCACGTCCAGCCCCACGCCGAGCGCCGAGCCCGCGTGCCTCCCGCAGCCCGCCG
 GGTGCGGGGCCCTGCTCCTGGGCTCCGCTGCTGGTCCGCCATGGGGGGGGCCCGCCCGTGCCTC
 CAGGCCGGGGCTTCCCTGACCCTTTCGGCCCTCCCGCTCAGGTGCCCTCGCGCCCAACCGCGCCCG
 CCCGGGTCCCCAGAATCACTATCAGTGACCCC

ACCGTACGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206284 representing NM_001005336
 Red=Cloning site Green=Tags(s)

MGNRGMEDLIPLVNRLQDAFSAIGQNADLDLPQIAVVGGSAGKSSVLENFVGRDFLPRGSGIVTRRPLV
 LQLVNATTEYAEFLHCKGKFTDFEEVRLIEAETDRVTGTNKGISPVPINLRVYSPHVLNLTLVDLPGM
 TKVPVGDQPPDIEFQIRDMLMQFVTKENCLILAVSPANSDLANSDALEVAKEVDPQQRITIGVITKLDLM
 DEGTDARDVLENKLLPLRRGYIGVVNRSQKIDIDGKKDITAAALAAERKFFLSHPSYRHLADRMGTPYLQKV
 LNQQLTDHIRDTLPGLRNKLSQQLLSIEKEVEEYKNFRPDDPARKTKALLQMVQQF AVDFEKRIEGSGDQ
 IDTYELSGGARINRIFHERFPFELVKMEFDEKELRREISYAIKNIHGIRTGLFTPDMAFETIVKKQVKKI
 REPCLKCVDMVISELISTVRQCTKKLQYPRLEEMERIVTTHIREREGRTKEQVMLLIDIELAYMNTNH
 EDFIGFANAQQRSNQMNKKTSGNQDEILVIRKGWLTINNIIGIMKGSKEYWFLTAENLSWYKDDEEKE
 KKYMLSVDNLKLRDVEKGMSSKHIFALFNTEQRNVYKDYRQLELACETQEEVDSWKASFLRAGVYPERV
 GDKEKASETEENGSDSFMHSMQPQLERQVETIRNLVDSYMAIVNKTVRDLMPKTIHMLMINNTKEIFSE
 LLANLYSCGDQNTLMEESAQAQRREMLRMYHALKEALSIIGDINTTTVSTPMPPPVDSDWLQVQSVPA
 GRRSPTSSPTPQRRAPAVPPARPGSRGPAGPPPAGSAMGGAPPVPSRPGASDPDFGPPPQVPSRPNRAP
 PGPVPRITISDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1760_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

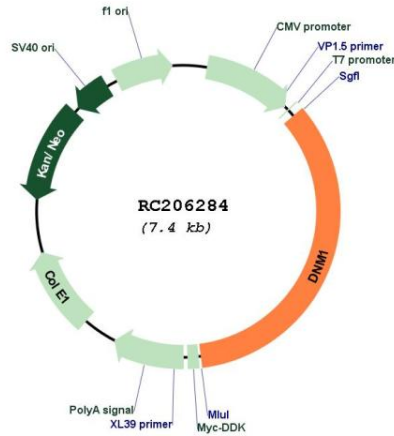


* The last codon before the Stop codon of the ORF

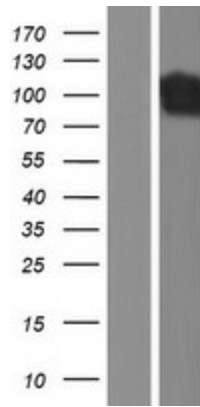
ACCN:	NM_001005336
ORF Size:	2553 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this 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.</p> <p>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</p>
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_001005336.3
RefSeq Size:	3253 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:	95.9 kDa

Gene Summary:

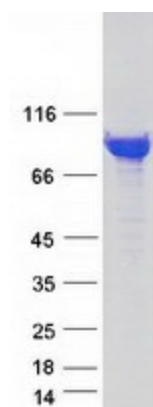
This gene encodes a member of the dynamin subfamily of GTP-binding proteins. The encoded protein possesses unique mechanochemical properties used to tubulate and sever membranes, and is involved in clathrin-mediated endocytosis and other vesicular trafficking processes. Actin and other cytoskeletal proteins 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]

Product images:


Circular map for RC206284



Western blot validation of overexpression lysate (Cat# [LY423862]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206284 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DNM1 protein (Cat# [TP306284]). The protein was produced from HEK293T cells transfected with DNM1 cDNA clone (Cat# RC206284) using MegaTran 2.0 (Cat# [TT210002]).