

Product datasheet for **RG239678**

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:	TurboGFP
Symbol:	DNM1
Synonyms:	DEE31; DNM; EIEE31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239678 representing NM_001288738.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGCAACCCGCGCATGGAAGATCTCATCCCGCTGGTCAACCGGCTGCAAGACGCCTTCTCTGCCATC
GGCCAGAACCGGACCTCGACCTGCCGAGATCGCTGTGGTGGGCGGCCAGAGCGCCGCAAGAGCTCG
GTGCTCGAGAATTCGTAGGCAGGGACTTCTTGCCTCGAGGATCTGGCATTGTCACCCGACGTCCCTTG
GTCTTGACAGTGGTCAATGCAACCACAGAATATGCCGAGTTCTGCACTGCAAGGAAAGAAATTCACC
GACTTCGAGGAGGTGCGCCTTGAGATCGAGGCCGAGACCGACAGGGTACCCGGCACCAACAAGGGCATC
TCGCCGGTGCCTATCAACCTCCGCGTCTACTCGCCGACGTGCTGAACCTGACCTGGTGGACCTGCC
GGAATGACCAAGGTCCCGGTGGGGGACCAACCTCCCGACATCGAGTTCAGATCCGAGACATGCTTATG
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GACGCCCTCAAGGTGCGCAAGGAGGTGGACCCCAAGGCCAGCGCACCATCGGGGTATACCAAGCTG
GACCTGATGGACGAGGGACAGATGCCCGTGTGTGCTGGAGAACAAGCTGCTCCCTCGCGAGAGGC
TACATTGGAGTGGTGAACCGGAGCCAGAAGGACATTGATGGCAAGAAGGACATTACCGCCGCTTGCT
GCTGAACGAAAGTTCTTCTCTCCCATCCATCTTATCGCCACTTGGCTGACCGTATGGGCACGCCCTAC
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TACAAGGATGATGAGGAGAAAGAGAAGAAATACATGCTGTCTGTGGACAACCTCAAGCTGCGGGACGTG
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CGCCGAGCCCCCGCGTCCCCCAGCCCCGCGGGTGGCGGGGCCCTGCTCCTGGGCCTCCGCTGCT
GGTCCGCCCTGGGGGGGGCGCCCCCGTGCCTCCAGGCCGGGGCTTCCCTGACCTTTTCGGCCCT
CCCCCTCAGTGCCTCGCGCCCCAACCGGCCCGCCGGGTCCCGAATCACTATCAGTGACCCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239678
 Blue=ORF Red=Cloning site Green=Tag(s)

MGNRGMEDLIPLVNRLQDAFSAIGQNADLDLPQIAVVGGSAGKSSVLENFVGRDFLPRGSGIVTRRPL
 VLQLVNATTEYAEFLHCKGKKFTDFEEVRLIEAETDRVTGNTKGISPVPINLRVYSPHVLNLTLDLP
 GMTKVPVGDQPPDIEFQIRDMLMQFVTKENCLILAVSPANSDLANSDALKVAKEVDPQGQRTIGVITKL
 DLMDEGTDARDVLENKLLPLRRGYIGVNRSQKDIDGKKDITAALAAERKFFLSHPSYRHLADRMGTPY
 LQKVLNQQLTNHIRDTLPLGLRNKLSQLLSIEKEVEEYKNFRPDDPARKTKALLQMVQQFAVDFEKRIE
 GSGDQIDTYELSGGARINRIFHERFPFELVKMEFDEKELRREISYAIKNIHGIRTGLFTPDLAFEATVK
 KQVQKLKEPSIKCVMVSELTATIRKCSEKLQQYPRLREEMERIVTTHIREREGRTKEQVMLLIDIEL
 AYMNTNHEDFIGFANAQQRSNQMKNKKTSGNQDEILVIRKGLTINNIGIMKGGKEYWFVLTAEANLWS
 YKDDEEKEKMYLSVDNLKLRDVEKGFMSKHIFALFNTEQRNVYKDYRQLELACETQEEVDSWKASFL
 RAGVYPERVGDKEKASETEENGSDSFMSMDPQLERQVETIRNLVDSYMAIVNKTVRDLMPKTIHMLMI
 NNTKEFIFSELLANLYSCGDQNTLMEESAQAQRREMLRMYHALKEALSIIGDINTTTVSTPMPPPVD
 DSWLQVQSVAPARRSPTSSPTPQRRAPVPPARPGSRGPAGPPPAGSALGGAPPVPSRPGASDPFPGP
 PPQVPSRPNRAPPGVPRTISDP
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPYSGYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-Mlul

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).
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 dynamain 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]