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Product datasheet for MG226407

Dnm1 (NM_010065) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnm1 (NM_010065) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dnm1
Synonyms:	AI838169; Dnm; Ftf; Ftfl; mKIAA4093
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG226407 representing NM_010065
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCAACCGCGGCATGGAAGACCTCATCCCGCTGGTTAACCGGTTACAGGACGCCTTCTCCGCCATCG
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GCTGGAGAATTTCGTGGGCAGGGACTTCTTGCCCCGAGGATCTGGCATCGTCACCCGGCGTCCCCTGGTC
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AGTGCCCATCAACCTGCGGGTCTACTCGCCCCATGTGCTGAACCTGACTCTAGTGGACCTGCCAGGAATG
ACCAAGGTCCCAGTTGGGGACCAACCTCCTGATATCGAGTTCCAGATCCGGGACATGCTTATGCAGTTCG
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CAAGATCGCTAAGGAGGTGGACCCCCAGGGTCAGCGCACCATTGGGGTCATCACCAAGTTGGACCTGATG
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AGCAGGAAGGGCCCAGCCTCACCTACGAGACCTGCAGCCCCCCGACCAACGGAGGCTCCCCTCTTAGACT
TA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG226407 representing NM_010065
Red=Cloning site Green=Tags(s)

MGNRGMEDLIPLVNRLQDAFSAIGQNADLDLPQIAVVGGQSAGKSSVLENFVGRDFLPRGSGIVTRRPLV
LQLVNSTTEYAEFLHCKGKKFTDFEEVRLEIEAETDRVTGTNKGISPVPINLRVYSPHVLNLTLVDLPGM
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DEGTDARDVLENKLLPLRRGYIGVVNRSQKDIDGKKDITAALAAERKFFLSHPSYRHLADRMGTPYLQKV
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IDTYELSGGARINRIFHERFPFELVKMEFDEKELRREISYAIKNIHGIRTGLFTPDMAFETIVKKQVKKI
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EDFIGFANAQQRSNQMNKKKTSGNQVIRKGWLTINNIGIMKGGSKEYWFVLTAENLSWYKDDEEKEKKYM
LSVDNLKLRDVEKGFMSSKHIFALFNTEQRNVYKDYRQLELACETQEEVDSWKASFLRAGVYPERVGDKE
KASETEENGSDSFMHSMDPQLERQVETIRNLVDSYMAIVNKTVRDLMPKTIMHLMINNTKEFIFSELLAN
LYSCGDQNTLMEESAEQAQRRDEMLRMYHALKEALSIIGDINTTTVSTPMPPPVDDSWLQVQSVPAGRRS
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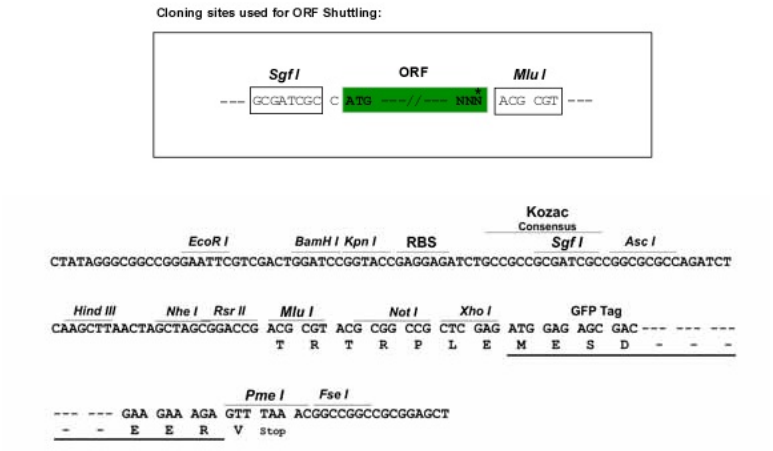
TRTRPLE - GFP Tag - V

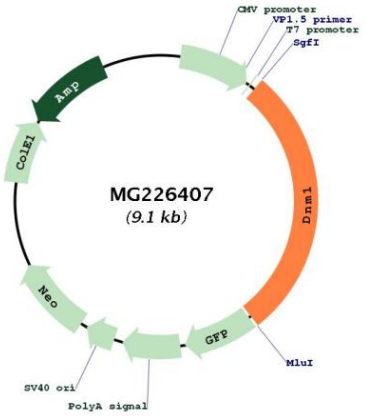
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_010065
ORF Size:	2592 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:	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_010065.3, NP_034195.2
RefSeq Size:	3843 bp
RefSeq ORF:	2595 bp
Locus ID:	13429
UniProt ID:	P39053
Cytogenetics:	2 22.09 cM
Gene Summary:	This gene encodes a member of the dynamin subfamily of GTP-binding proteins. The encoded protein is a GTPase which is required for membrane recycling, including vesicle endocytosis in neurons. It may also be involved in cellular fission via association with microtubules and actin filaments. Mutations in this gene have been shown to cause seizures. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]

Product images:



Circular map for MG226407