

Product datasheet for **MR230963**

Dnm1l (NM_001276340) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnm1l (NM_001276340) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnm1l
Synonyms:	6330417M19Rik; AI450666; Dlp1; Dnm; Dnmlp1; Dr; Drp1; pyt; python
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>MR230963 representing NM_001276340
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGCGCTGATCCCGTTCATCAATAAGCTGCAGGACGTCTTCAACACAGTGGGTGCGGACATCATCC
AGCTGCCTCAGATCGTCGTAGTGGGAACGCAGAGCAGTGGGAAGAGCTCAGTGCTGGAAAGCCTAGTGGG
CAGGGACCTTCTCCAGAGGAAGTGGTGTGGTACCCGAGACCTCTCATTCTGCAGCTAGTCCACGTT
TCACCAGAAGATAAAAGAAAAACAACAGGAGAAGAAAATGGTAAATTTTCAGAGCTGGAGAGTTGAAGCAG
AAGAATGGGGTAAATTTCTCACACAAAAACAAGCTTTACACAGATTTTGATGAAATTCGACAAGAAAT
TGAAAATGAAACTGAAAGAATTTTCAGGAAATAATAAGGGGTAAGCCCTGAGCCAATCCATCTCAAGGTT
TTCTCGCCCAACGTTGTCAACCTGACACTTGTGGATTTACCGGGAATGACCAAAGTACCTGTAGGCGATC
AGCCCAAGGACATCGAGCTTCAGATCAGAGAATTATTCTTCGGTTCATCAGTAATCCCAATTCATTAT
CCTCGCCGTCACGCTGCAAATACAGATATGGCAACATCAGAAGCACTCAAGATTTCCAGAGAGGTAGAT
CCAGATGGGCGCAGAAGTCTAGCTGTAATCACTAACTTGATCTCATGGATGCGGGTACTGATGCCATGG
ATGTAATGATGGGAAGGTTATTCCAGTCAAGCTTGAATAATTGGAGTAGTTAACAGAAGCCAAGTGGGA
TATTAACAATAAGAAGAGTGAAGTCAATCCGTGATGAGTATGCTTTTCTCAAAGAAGTACCCA
TCTCTGGCCAACAGAAATGGAACAAAGTATCTTGCTAGGACCCTGAATAGGTTACTTATGCATCATATCA
GAGATTGTTTACCAGAGCTGAAAACAAGAATAAATGTCTTAGCTGCTCAGTATCAGTCTCTTCTAAATAG
CTATGGTGAACCGGTGGATGATAAAAGTGTACTTTACTCCAGCTTATTACCAAATTTGCCACAGAGTAT
TGTAACACGATTGAAGGAACCGCAAAGTACATTGAACTTCTGAGCTATGCGGTGGTGTAGGATTTGTT
ATATTTCCATGAGACTTTCGGGCGAACCTTAGAATCTGTGACCCTAGGTGGCTTAAACATATTGA
CATCCTGACTGCCATCAGAAATGCTACTGGCCCCGTCCTGCTTTATTTGTGCCTGAAGTTTCATTTGAG
TTACTGGTCAAACGTGAGATTAAGCGTCTAGAAGAGCCAGCCTACGGTGTGTGGAGCTGGTCCATGAGG
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CGATGCCATAGTTGAAGTAGTACCTGTCTTCTCGTAAAAGGTTGCCCGTGACAAATGAAATGGTGCAT
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CAAGTTAATTGAGGACAACAGAAGAGAACTAAAAATGTCCATCTGCAGGTGGTGGGATTGGAGACGGT
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TGGTTAATCATGTGAAAGATACTCTCAGAGTGAAGTGGTAGGGCAGCTGTATAAGTCACTTATTAGA
TGACCTTCTGACTGAATCCGAGGACATGGCCCAACGAAGAAAAGAAGCAGCGGATATGCTGAAGGCATTA
CAAGGAGCCAGTCAAATATTGCTGAAATCCGAGAGACTCATCTTTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230963 representing NM_001276340
 Red=Cloning site Green=Tags(s)

MEALIPVINKLQDVFNVTGADIIQLPQIVVVGTSQSSGKSSVLESVGRDLLPRGTGVVTRRPLILQLVHV
 SPEDKRKTTGEENGKFFQSWRVEAEEWGKFLHTKNKLYTDFDEIRQEIENETERISGNNGKVSPEPIHLKV
 FSPNVVNLTLVDLPGMTKVPVGDQPKDIELQIRELILRFISNPNSIILAVTAANTDMATSEALKISREVD
 PDGRRTLAVITKLDLMDAGTDAMDVLMGRVIPVKLGIIGVVNRSQLDINNKKSVTDSIRDEYAFLLQKKYP
 SLANRNGTKYLARTLNRLMLMHIRDCLPELKTRINVLAAQYQSLLSYGEPPVDDKATLLQLITKFATEY
 CNTIEGTAKYIETSELCGGARICYIFHETFGRITLESVDPLGGLNTIDILTAIRNATGPRPALFVPEVSFE
 LLVKRQIKRLEEPSLRCVELVHEEMQRIIQHCSNYSTQELLRFPKLHDAIVEVVTCLLRKRLPVTNEMVH
 NLVAIELAYINTKHPDFADACGLMNNNIEEQRRNRLARELPSAGSRDKLIQDNRRRETKNVPASGGGIGDG
 GQEPPTGNWRGMLKTSKAEELLAEKSKPIIMPASPQKGHAVNLLDVPVPVARKLSAREQRDCEVIERL
 IKSYFLIVRKNIQDSVPKAVMHFLVNHVKDTLQSELVGQLYKSSLLDDLLESEDMAQRKAEADMLKAL
 QGASQIIAEIRETHLW

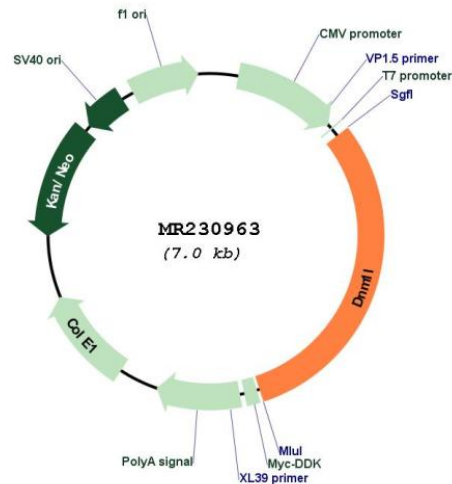
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001276340

ORF Size: 2148 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_001276340.1](#), [NP_001263269.1](#)

RefSeq Size: 4085 bp

RefSeq ORF: 2151 bp

Locus ID: 74006

UniProt ID: [Q8K1M6](#)

Cytogenetics: 16 A2

MW: 80.7 kDa

Gene Summary: This gene encodes a member of the dynamin family. The encoded protein is localized to the cytoplasm and mitochondrial membrane, is involved in mitochondrial and peroxisomal division, and is essential for mitochondrial fission. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 2. [provided by RefSeq, Feb 2013]