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Product datasheet for MR230677

Dnm1l (NM_001276341) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnm1l (NM_001276341) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnm1l
Synonyms:	6330417M19Rik; AI450666; Dlp1; Dnm; Dnmlp1; Dr; Drp1; pyt; python
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR230677 representing NM_001276341
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTTTACACAGATTTTGATGAAATTCGACAAGAAATTGAAAATGAAACTGAAAGAATTTCAGGAAATA
ATAAGGGGGTAAGCCCTGAGCCAATCCATCTCAAGGTTTTCTCGCCCAACGTTGTCAACCTGACACTTGT
GGATTTACCGGGAATGACCAAAGTACCTGTAGGCGATCAGCCCAAGGACATCGAGCTTCAGATCAGAGAA
CTTATTCTTCGGTTCATCAGTAATCCCAATTCCATTATCCTCGCCGTCACTGCTGCAAATACAGATATGG
CAACATCAGAAGCACTCAAGATTTCCAGAGAGGTAGATCCAGATGGGCGCAGAACTCTAGCTGTAATCAC
TAAACTTGATCTCATGGATGCGGGTACTGATGCCATGGATGTATTGATGGGAAGGGTTATTCCAGTCAAG
CTTGGAATAATTGGAGTAGTTAACAGAAGCCAACTGGATATTAACAATAAGAAGAGTGTAACTGATTCAA
TCCGTGATGAGTATGCTTTTCTTCAAAAGAAGTACCCATCTCTGGCCAACAGAAATGGAACAAAGTATCT
TGCTAGGACCCTGAATAGGTTACTTATGCATCATATCAGAGATTGTTTACCAGAGCTGAAAACAAGAATA
AATGTCTTAGCTGCTCAGTATCAGTCTCTTCTAAATAGCTATGGTGAACCGGTGGATGATAAAAGTGCTA
CTTTACTCCAGCTTATTACCAAATTTGCCACAGAGTATTGTAACACGATTGAAGGAACCGCAAAGTACAT
TGAAACTTCTGAGCTATGCGGTGGTGCTAGGATTTGTTATATTTTCCATGAGACTTTCGGGCGAACCTTA
GAATCTGTGGACCCACTAGGTGGCCTTAACACTATTGACATCCTGACTGCCATCAGAAATGCTACTGGCC
CCCGTCCTGCTTTATTTGTGCCTGAAGTTTCATTTGAGTTACTGGTCAAACGTCAGATTAAGCGTCTAGA
AGAGCCCAGCCTACGGTGTGTGGAGCTGGTCCATGAGGAGATGCAGAGGATCATTCAGCATTGTAGCAAT
TACAGCACACAGGAATTGTTACGGTTCCCTAAACTTCACGATGCCATAGTTGAAGTAGTGACCTGTCTTC
TTCGTAAAAGGTTGCCCGTGACAAATGAAATGGTGCATAACTTAGTGGCAATTGAGCTAGCGTATATCAA
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AATGCTGAAAACTTCAAAAGCTGAAGAATTACTTGCTGAAGAAAAATCAAAACCAATTCCAATTATGCCA
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CCCGAGAACAGCGAGATTGTGAGGTTATTGAAAGACTTATCAAATCATATTTTCTAATTGTCAGAAAGAA
TATTCAAGACAGTGTCCCAAAGGCAGTAATGCATTTTTTGGTTAATCATGTGAAAGATACTCTTCAGAGT
GAACTGGTAGGGCAGCTGTATAAGTCATCCTTATTAGATGACCTTCTGACTGAATCCGAGGACATGGCCC
AACGAAGAAAAGAAGCAGCGGATATGCTGAAGGCATTACAAGGAGCCAGTCAAATTATTGCTGAAATCCG
AGAGACTCATCTTTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230677 representing NM_001276341
Red=Cloning site Green=Tags(s)

MLYTDFDEIRQEIENETERISGNNKGVSPEPIHLKVFSPNVVNLTLVDLPGMTKVPVGDQPKDIELQIRE
LILRFISNPNSIILAVTAANTDMATSEALKISREVDPDGRRTLAVITKLDLMDAGTDAMDVLMGRVIPVK
LGIIGVVNRSQLDINNKKSVTDSIRDEYAFLQKKYPSLANRNGTKYLARTLNRLLMHHIRDCLPELKTRI
NVLAAQYQSLLNSYGEPVDDKSATLLQLITKFATEYCNTIEGTAKYIETSELCGGARICYIFHETFGRTL
ESVDPLGGLNTIDILTAIRNATGPRPALFVPEVSFELLVKRQIKRLEEPSLRCVELVHEEMQRIIQHCSN
YSTQELLRFPKLHDAIVEVVTCLLRKRLPVTNEMVHNLVAIELAYINTKHPDFADACGLMNNNIEEQRRN
RLARELPSAGSRDKLIQDNRRETKNVPSAGGGIGDGGQEPTTGNWRGMLKTSKAEELLAEEKSKPIPIMP
ASPQKGHAVNLLDVPVPVARKLSAREQRDCEVIERLIKSYFLIVRKNIQDSVPKAVMHFLVNHVKDTLQS
ELVGQLYKSSLLDDLLTESEDMAQRRKEAADMLKALQGASQIIAEIRETHLW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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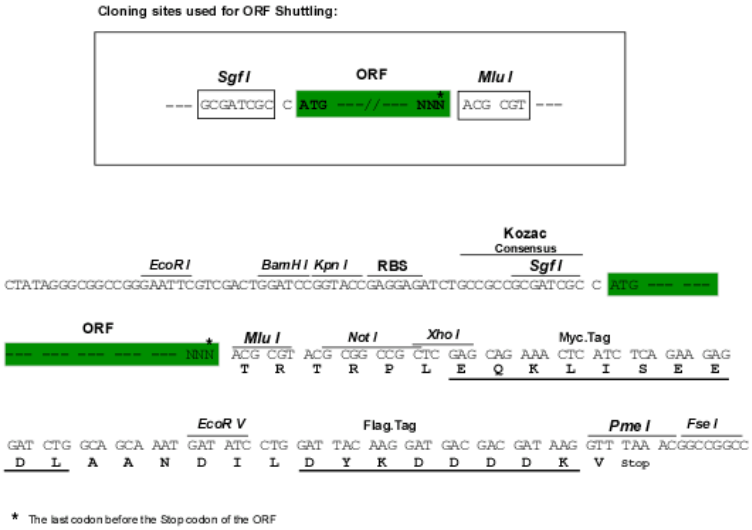
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001276341

ORF Size: 1836 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_001276341.1, NP_001263270.1

RefSeq Size: 3829 bp

RefSeq ORF: 1839 bp

Locus ID: 74006

UniProt ID: Q8K1M6

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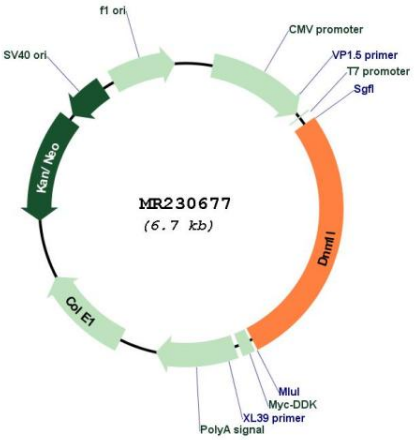
Cytogenetics:	16 A2
MW:	69.2 kDa
Gene Summary:	This gene encodes a member of the dynamin family. The encoded protein is localized to the cytoplasm and mitochondrial membrane, is involved in mitochondrial and peroxisomal division, and is essential for mitochondrial fission. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 2. [provided by RefSeq, Feb 2013]

Product images:



Circular map for MR230677

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