

Product datasheet for **MR225302**

Dnm1l (NM_152816) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnm1l (NM_152816) 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:

>MR225302 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGCGCTGATCCCGTTCATCAATAAGCTGCAGGACGTCTTCAACACAGTGGGTGCGGACATCATCC
AGCTGCCTCAGATCGTCGTAGTGGGAACGAGCAGTGGGAAGAGCTCAGTGCTGGAAAGCCTAGTGGG
CAGGGACCTTCTCCAGAGGAAGTGGTGTGGTACCCGAGACCTCTCATTCTGCAGCTAGTCCACGTT
TCACCAGAAGATAAAAGAAAAACAACAGGAGAAGAAAATGACCCTGCCACATGGAAAACTCAAGACACC
TTTCCAAAGGAGTTGAAGCAGAAGAATGGGGTAAATTTCTTACACCAAAAAACAAGCTTTACACAGATTT
TGATGAAATTCGACAAGAAATGAAAATGAAAATGAAAATTTTCAGGAAATAATAAGGGGGTAAGCCCT
GAGCCAATCCATCTCAAGTTTTCTCGCCCAACGTTGTCAACCTGACACTTGTGGATTTACCGGGAATGA
CCAAAGTACCTGTAGGCGATCAGCCCAAGGACATCGAGCTTCAGATCAGAGAACTTATTCTCGTTTCAT
CAGTAATCCCAATTCATTATCCTCGCCGTCACCTGCTGCAAAATACAGATATGGCAACATCAGAAGCACTC
AAGATTTCCAGAGAGGTAGATCCAGATGGGCGCAGAACTTAGCTGTAATCACTAAACTTGATCTCATGG
ATGCGGGTACTGATGCCATGGATGATTGATGGGAAGGGTTATTCCAGTCAAGCTTGAATAAATGGAGT
AGTTAACAGAAGCCAAGTGGATTAACAATAAGAAGAGTGAATGATTCAATCCGTGATGAGTATGCT
TTTCTTAAAAGAAGTACCCATCTCTGGCCAACAGAAAATGGAACAAAGTATCTTGCTAGGACCCTGAATA
GGTTACTTATGCATCATATCAGAGATTGTTACCAGAGCTGAAAACAAGAATAAATGTCTTAGCTGCTCA
GTATCAGTCTCTTCTAAATAGCTATGGTGAACCGGTGGATGATAAAAAGTCTACTTTACTCCAGCTTATT
ACCAAATTTGCCACAGAGTATTGTAACAGATTGAAGGAACCGCAAAGTACATTGAACTTCTGAGCTAT
CGGTGGTGTAGGATTTGTTATTTTTCCATGAGACTTTCGGGGCAACCTTAGAATCTGTGGACCCACT
AGGTGGCCTTAACACTATTGACATCCTGACTGCCATCAGAAATGCTACTGGCCCCGCTCCTGCTTTATTT
GTGCTGAAGTTTCATTTGAGTTACTGGTCAAACGTCAGATTAAGCGTCTAGAAGAGCCAGCCTACGGT
GTGTGGAGCTGGTCCATGAGGAGATGCAGAGGATCATTGAGTGTAGCAATTACAGCACACAGGAATT
GTTACGGTTCCTAAACTTACGATGCCATAGTTGAAAGTGTGACCTGTCTTCTTCGTAAGGTTGCC
GTGACAAATGAAATGGTGCATAACTTAGTGCAATTGAGCTAGCGTATATCAACACAAAACACCCCGACT
TTGCTGATGCCTGTGGGTAATGAACAATAATATAGAGGAACAAAGAAGAAACAGGCTAGCAAGAGAGCT
GCCTTCAGCTGGATCACGGGACAAGTCCCATCTGCAGGTGGTGGGATTGGAGACGGTGGTCAGGAACCA
ACAACAGGCAACTGGAGAGGAATGCTGAAAACCTCAAAGCTGAAGAATTACTTGTGAAGAAAAATCAA
AACCAATTCGAATTATGCCAGCAAGTCCACAGAAAGGCCATGCTGTCAATTTGCTAGATGTGCCAGTTC
AGTTGCAAGAAAATGTCTGCCCAGAAACAGCGAGATTGTGAGGTTATTGAAAGACTTATCAAATCATAT
TTTCTAATTGTCAGAAAGAATATTCAAGACAGTGTCCAAAGGCAGTAATGCATTTTTGGTTAATCATG
TGAAAGATACTCTTACAGTGAAGTGGTGGGAGCTGTATAAGTCATCCTTATTAGATGACCTTCTGAC
TGAATCCGAGGACATGGCCCAACGAAGAAAAGAAGCAGCGGATATGCTGAAGGCATTACAAGGAGCCAGT
CAAATTATTGCTGAAATCCGAGAGACTCATCTTTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225302 protein sequence
Red=Cloning site Green=Tags(s)

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MEALIPVINKLQDVFNVTGADIIQLPQIVVVGTSQSSGKSSVLESVGRDLLPRGTGVVTRRPLILQLVHV
SPEDKRKTTGEENDPATWKNRHL SKGVEAEWKGKFLHTKNKLYTDFDEIRQEIENETERISGNKGVSP
EPIHLKVFSPNVNLTLDLPGMTKVPVGDQPKDIELQIRELILRFISNPNSIILAVTAANTDMATSEAL
KISREVPDGRRTLAVITKLDLMDAGTDAMDVLMGRVIVKLGIIQVNVRSQLDINNKKSVTDSIRDEYA
FLQKKYPSLANRNGTKYLARTLNRLMHHIRDCLPELKRINVLAAQYQSLLSYGEVDDKSATLLQLI
TKFATEYCNTIEGTAKYIETSEL CGGARICYIFHETFGRTLESVDPLGGLNTIDILTAIRNATGPRPALF
VPEVSFELLVQRQIKRLEEPSLRCVELVHEEMQRIIQHCSNYSTQELLRFPKLHDAIVEVVTCLLRKRLP
VTNEMVHNLVAIELAYINTKHPDFADACGLMNNNIEEQRRNRLARELPSAGSRDKVPSAGGGIGDGGQEP
TTGNWRGMLKTSKAEELLAEESKPIPIIMPASPQKGHAVNLLDVPVPVARKLSAREQRDCEVIERLIKSY
FLIVRKNIQDSVPKAVMHFLVNHVKDTLQSELVGQLYKSSLLDLDLLESEDMAQRREKAADMLKALQGAS
QIIAEIRETHLW
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_152816

ORF Size: 2136 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_152816.3](#), [NP_690029.2](#)

RefSeq Size: 4073 bp

RefSeq ORF: 2139 bp

Locus ID: 74006

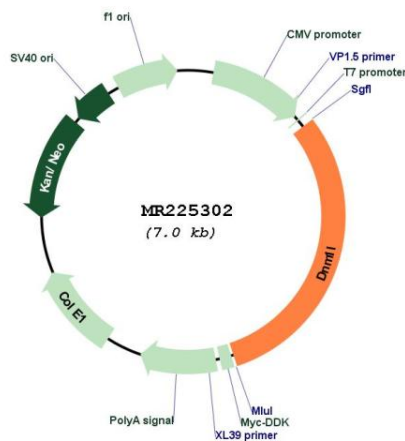
UniProt ID: [Q8K1M6](#)

Cytogenetics: 16 A2

MW: 79.5 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 MR225302