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Product datasheet for MR210122

Dnm1l (NM_001025947) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnm1l (NM_001025947) 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:

>MR210122 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGCGCTGATCCCGGTCATCAATAAGCTGCAGGACGTCTTCAACACAGTGGGTGCGGACATCATCC
AGCTGCCTCAGATCGTCGTAGTGGGAACGCAGAGCAGTGGGAAGAGCTCAGTGCTGGAAAGCCTAGTGGG
CAGGGACCTTCTTCCCAGAGGAACTGGTGTGGTCACCCGGAGACCTCTCATTCTGCAGCTAGTCCACGTT
TCACCAGAAGATAAAAGAAAAACAACAGGAGAAGAAAATGGAGTTGAAGCAGAAGAATGGGGTAAATTTC
TTCACACCAAAAACAAGCTTTACACAGATTTTGATGAAATTCGACAAGAAATTGAAAATGAAACTGAAAG
AATTTCAGGAAATAATAAGGGGGTAAGCCCTGAGCCAATCCATCTCAAGGTTTTCTCGCCCAACGTTGTC
AACCTGACACTTGTGGATTTACCGGGAATGACCAAAGTACCTGTAGGCGATCAGCCCAAGGACATCGAGC
TTCAGATCAGAGAACTTATTCTTCGGTTCATCAGTAATCCCAATTCCATTATCCTCGCCGTCACTGCTGC
AAATACAGATATGGCAACATCAGAAGCACTCAAGATTTCCAGAGAGGTAGATCCAGATGGGCGCAGAACT
CTAGCTGTAATCACTAAACTTGATCTCATGGATGCGGGTACTGATGCCATGGATGTATTGATGGGAAGGG
TTATTCCAGTCAAGCTTGGAATAATTGGAGTAGTTAACAGAAGCCAACTGGATATTAACAATAAGAAGAG
TGTAACTGATTCAATCCGTGATGAGTATGCTTTTCTTCAAAAGAAGTACCCATCTCTGGCCAACAGAAAT
GGAACAAAGTATCTTGCTAGGACCCTGAATAGGTTACTTATGCATCATATCAGAGATTGTTTACCAGAGC
TGAAAACAAGAATAAATGTCTTAGCTGCTCAGTATCAGTCTCTTCTAAATAGCTATGGTGAACCGGTGGA
TGATAAAAGTGCTACTTTACTCCAGCTTATTACCAAATTTGCCACAGAGTATTGTAACACGATTGAAGGA
ACCGCAAAGTACATTGAAACTTCTGAGCTATGCGGTGGTGCTAGGATTTGTTATATTTTCCATGAGACTT
TCGGGCGAACCTTAGAATCTGTGGACCCACTAGGTGGCCTTAACACTATTGACATCCTGACTGCCATCAG
AAATGCTACTGGCCCCCGTCCTGCTTTATTTGTGCCTGAAGTTTCATTTGAGTTACTGGTCAAACGTCAG
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AACAAAGAAGAAACAGGCTAGCAAGAGAGCTGCCTTCAGCTGGATCACGGGACAAGGTCCCATCTGCAGG
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ATGCTGTCAATTTGCTAGATGTGCCAGTTCCAGTTGCAAGAAAACTGTCTGCCCGAGAACAGCGAGATTG
TGAGGTTATTGAAAGACTTATCAAATCATATTTTCTAATTGTCAGAAAGAATATTCAAGACAGTGTCCCA
AAGGCAGTAATGCATTTTTTGGTTAATCATGTGAAAGATACTCTTCAGAGTGAACTGGTAGGGCAGCTGT
ATAAGTCATCCTTATTAGATGACCTTCTGACTGAATCCGAGGACATGGCCCAACGAAGAAAAGAAGCAGC
GGATATGCTGAAGGCATTACAAGGAGCCAGTCAAATTATTGCTGAAATCCGAGAGACTCATCTTTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

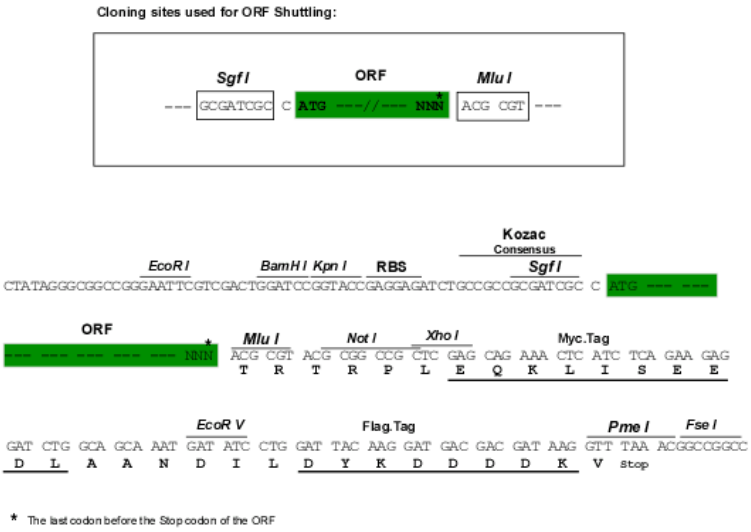
>MR210122 protein sequence
Red=Cloning site Green=Tags(s)

MEALIPVINKLQDVFNTVGADIIQLPQIVVVGTQSSGKSSVLESLVGRDLLPRGTGVVTRRPLILQLVHV
SPEDKRKTTGEENGVEAEEWGKFLHTKNKLYTDFDEIRQEIENETERISGNNKGVSPEPIHLKVFSPNVV
NLTLVDLPGMTKVPVGDQPKDIELQIRELILRFISNPNSIILAVTAANTDMATSEALKISREVDPDGRRT
LAVITKLDLMDAGTDAMDVLMGRVIPVKLGIIGVVNRSQLDINNKKSVTDSIRDEYAFLQKKYPSLANRN
GTKYLARTLNRLLMHHIRDCLPELKTRINVLAAQYQSLLNSYGEPVDDKSATLLQLITKFATEYCNTIEG
TAKYIETSELCGGARICYIFHETFGRTLESVDPLGGLNTIDILTAIRNATGPRPALFVPEVSFELLVKRQ
IKRLEEPSLRCVELVHEEMQRIIQHCSNYSTQELLRFPKLHDAIVEVVTCLLRKRLPVTNEMVHNLVAIE
LAYINTKHPDFADACGLMNNNIEEQRRNRLARELPSAGSRDKVPSAGGGIGDGGQEPTTGNWRGMLKTSK
AEELLAEEKSKPIPIMPASPQKGHAVNLLDVPVPVARKLSAREQRDCEVIERLIKSYFLIVRKNIQDSVP
KAVMHFLVNHVKDTLQSELVGQLYKSSLLDDLLTESEDMAQRRKEAADMLKALQGASQIIAEIRETHLW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001025947

ORF Size: 2100 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_001025947.2, NP_001021118.1

RefSeq Size: 4034 bp

RefSeq ORF: 2100 bp

Locus ID: 74006

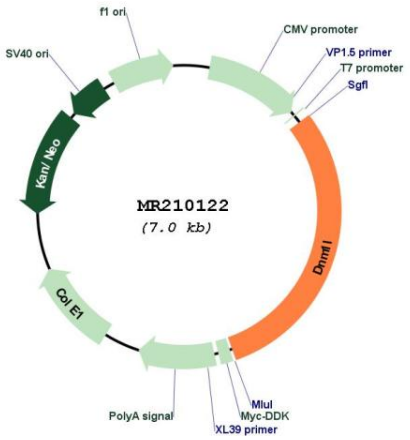
UniProt ID: Q8K1M6

Cytogenetics: 16 A2

MW: 78 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 MR210122