

## Product datasheet for **MC228466**

### **Dnm1l (NM\_001276341) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dnm1l (NM_001276341) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC228466 representing NM\_001276341  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTTTACACAGATTTTGTGAAATTCGACAAGAAATGAAATGAACTGAAAGAATTCAGGAAATA  
 ATAAGGGGTAAGCCCTGAGCCAATCCATCTCAAGTTTTCTCGCCAAGTTGTCAACCTGACACTTGT  
 GGATTTACCGGAATGACCAAAGTACCTGTAGGCGATCAGCCAAAGGACATCGAGCTTCAGATCAGAGAA  
 CTTATTCTCGGTTTCATCAGTAATCCCAATTCATTATCTCGCCGTCAGTCTGCAAAACAGATATGG  
 CAACATCAGAAGCACTCAAGATTTCCAGAGAGGTAGATCCAGATGGGCGCAGAATCTAGCTGTAATCAC  
 TAACTTGATCTCATGGATGCGGGTACTGATGCCATGGATGATTGATGGGAAGGGTTATCCAGTCAAG  
 CTTGGAATAATTGGAGTAGTTAACAGAAGCCAAGTGGATTAACAATAAGAAGAGTGAAGTATTGCA  
 TCCGTGATGAGTATGCTTTTCTCAAAGAAGTACCCATCTCGCCAACAGAAATGGAACAAAGTATCT  
 TGCTAGGACCCTGAATAGGTTACTTATGCATCATATCAGAGATTGTTTACCAGAGCTGAAAACAAGATA  
 AATGTCTTAGCTGCTCAGTATCAGTCTCTTCTAAATAGCTATGGTGAACCGGTGGATGATAAAAGTGCTA  
 CTTTACTCCAGCTTATTACCAAATTTGCCACAGAGTATTGTAACACGATTGAAGGAACCGCAAAGTACAT  
 TGAAACTTCTGAGCTATGCGGTGGTCTAGGATTTGTTATATTTCCATGAGACTTTCGGGCGAACCTTA  
 GAATCTGTGGACCACTAGGTGGCTTAACACTATTGACATCCTGACTGCCATCAGAAATGCTACTGGCC  
 CCCGTCCTGCTTATTTGTGCCTGAAGTTTCATTTGAGTTACTGGTCAAACGTCAGATTAAGCGTCTAGA  
 AGAGCCCAGCCTACGGTGTGGAGCTGGTCCATGAGGAGATGCAGAGGATCATTAGCATTGTAGCAAT  
 TACAGCACACAGGAATTTGTTACGGTCCCTAACTTACGATGCCATAGTTGAAGTAGTACCTGTCTTC  
 TTCGTAAGGTTGCCCGTACAAATGAAATGGTGCATAACTTAGTGCAATTGAGTACCGTATATCAA  
 CACAAAACACCCCGACTTTGCTGATGCCTGTGGGCTAATGAACAATAATATAGAGGAACAAAGAAGAAAC  
 AGGCTAGCAAGAGAGCTGCCCTCAGCTGGATCACGGGACAAGTTAATTCAGGACAACAGAAGAGAACTA  
 AAAATGTCCCCTGTCAGGTGGTGGGATTGGAGACGGTGGTCCAGAACCAACAACAGGCAACTGGAGAGG  
 AATGCTGAAAACCTCAAAGCTGAAGAATTACTTGTGAGAAAATCAAACCAATTCCAATTATGCCA  
 GCAAGTCCACAGAAAGGCCATGCTGTCAATTTGCTAGATGTGCCAGTTCAGTTGCAAGAAAACCTGCTG  
 CCCGAGAACAGCGAGATTGTGAGGTTATTGAAAGACTTATCAAATCATATTTTCTAATTGTCAGAAAGAA  
 TATTCAAGACAGTGTCCCAAAGGCAGTAATGCATTTTTTGGTTAATCATGTGAAAGATACTTTCAGAGT  
 GAACTGGTAGGCGAGCTGTATAAGTCATCCTTATTAGATGACCTTCTGACTGAATCCGAGGACATGGCCC  
 AACGAAGAAAAGAAGCAGCGGATATGCTGAAGGCATTACAAGGAGCCAGTCAAATATTGCTGAAATCCG  
 AGAGACTCATCTTTGGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001276341
- Insert Size:** 1839 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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](#)

**Cytogenetics:** 16 A2

**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]

**Transcript Variant:** This variant (4) uses an alternate 5' structure, has multiple differences in the coding region and initiates translation at a downstream start codon, compared to variant 6. It encodes isoform d which has a shorter N-terminus compared to isoform e. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data because no single transcript from the same strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments and orthologous data.