

## Product datasheet for **MC228752**

### **Dnm1l (NM\_001276340) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dnm1l (NM_001276340) 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:** >MC228752 representing NM\_001276340  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGCGCTGATCCCGGTCATCAATAAGCTGCAGGACGTCTTCAACACAGTGGGTGCGGACATCATCC  
 AGCTGCCTCAGATCGTCGTAGTGGGAACGCAGAGCAGTGGGAAGAGCTCAGTGTGGAAAGCCTAGTGGG  
 CAGGGACCTTCTCCAGAGGAAGTGGTGTGGTACCCGAGACCTCTCATTCTGCAGCTAGTCCACGTT  
 TCACCAGAAGATAAAAGAAAAACAACAGGAGAAGAAAATGGTAAATTTTCAGAGCTGGAGAGTTGAAGCAG  
 AAGAATGGGGTAAATTTCTCACACAAAAACAAGCTTTACACAGATTTTGATGAAATTCGACAAGAAAT  
 TGAATAAGAACTGAAAGAATTTAGGAAATAAAGGGGTAAGCCCTGAGCCAATCCATCTCAAGGTT  
 TTCTCGCCCAACGTTGTCAACCTGACACTTGTGGATTTACCGGGAATGACCAAAGTACCTGTAGGCGATC  
 AGCCCAAGGACATCGAGCTTCAGATCAGAGAATTATTCTTCGGTTCATCAGTAATCCCAATTCATTAT  
 CCTCGCCGTCAGTGTCAAATACAGATATGGCAACATCAGAAGCACTCAAGATTTCCAGAGAGGTAGAT  
 CCAGATGGGCGCAGAAGTCTAGCTGTAATCACTAACTTGATCTCATGGATGCGGGTACTGATGCCATGG  
 ATGATTGATGGGAAGGTTATTCCAGTCAAGCTTGAATAATTGGAGTAGTTAACAGAAGCCAAGTGGAA  
 TATTAACAATAAGAAGAGTGAAGTCAATCCGTGATGAGTATGCTTTTCTCAAAGAAAGTACCCA  
 TCTCTGGCCAACAGAAATGGAACAAAGTATCTTGCTAGGACCCTGAATAGGTTACTTATGCATCATATCA  
 GAGATTGTTTACCAGAGCTGAAAACAAGATAAATGTCTTAGCTGCTCAGTATCAGTCTCTTCTAAATAG  
 CTATGGTGAACCGGTGGATGATAAAAGTGTACTTTACTCCAGCTTATTACCAAATTTGCCACAGAGTAT  
 TGTAACACGATTGAAGGAACCGCAAAGTACATTGAAACTTCTGAGCTATGCGGTGGTGTAGGATTTGTT  
 ATATTTCCATGAGACTTTCGGGCGAACCTTAGAATCTGTGACCCACTAGGTGGCCCTAACCAATTGGA  
 CATCCTGACTGCCATCAGAAATGCTACTGGCCCCCGTCTGCTTTATTTGTGCCTGAAGTTTCATTTGAG  
 TTAGTGGTCAAACGTCAGATTAAGCGTCTAGAAGAGCCAGCCTACGGTGTGTGGAGCTGGTCCATGAGG  
 AGATGCAGAGGATCATTAGCATTGTAGCAATTACAGCACACAGGAATTGTACGGTTCCTAAACTTCA  
 CGATGCCATAGTTGAAGTAGTACCTGTCTTCTCGTAAAAGGTTGCCCGTGACAAATGAAATGGTGCAT  
 AACTTAGTGGCAATTGAGTAGCGTATATCAACACAAAACACCCCGACTTTGCTGATGCCTGTGGGCTAA  
 TGAACAATAATATAGAGGAACAAAGAAGAAACAGGCTAGCAAGAGAGCTGCCTTCAGCTGGATCACGGGA  
 CAAGTTAATTGAGGACAACAGAAGAAAATAAAATGTCCATCTGCAGGTGGTGGGATTGGAGACGGT  
 GGTGAGGAACCAACAACAGGCAACTGGAGAGGAATGCTGAAAACTTCAAAGCTGAAGAATTACTTGCTG  
 AAGAAAAATCAAACCAATTCCAATTATGCCAGCAAGTCCACAGAAAGGCCATGCTGTCAATTTGCTAGA  
 TGTGCCAGTTCAGTTGCAAGAAAAGTGTCTGCCCGAGAACAGCGAGATTGTGAGGTTATTGAAAGACTT  
 ATCAAATCATATTTTCTAATTGTGAGAAAGAAATTTCAAGACAGTGTCCCAAAGGCAGTAATGCATTTT  
 TGGTTAATCATGTGAAAGATACTCTCAGAGTGAAGTGGTAGGGCAGCTGTATAAGTATCCTTATTAGA  
 TGACCTTCTGACTGAATCCGAGGACATGGCCCAACGAAGAAAAGAAGCAGCGGATATGCTGAAGGCATTA  
 CAAGGAGCCAGTCAAATATTGCTGAAATCCGAGAGACTCATCTTTGG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001276340  
**Insert Size:** 2151 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).

<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001276340.1, NP_001263269.1</u>
<b>RefSeq Size:</b>	4085 bp
<b>RefSeq ORF:</b>	2151 bp
<b>Locus ID:</b>	74006
<b>UniProt ID:</b>	<u>Q8K1M6</u>
<b>Cytogenetics:</b>	16 A2
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) has multiple differences in the coding region but maintains the reading frame, compared to variant 6. The encoded isoform (c) is shorter than isoform e.</p> <p>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.</p>