

## Product datasheet for **MC221017**

### **Dnm1l (NM\_152816) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dnm1l (NM_152816) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC221017 representing NM\_152816  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGGCGCTGATCCCGTTCATCAATAAGCTGCAGGACGTCTTCAACACAGTGGGTGCGGACATCATCC  
 AGCTGCCTCAGATCGTCGTAGTGGGAACGACAGCAGTGGGAAGAGCTCAGTGTGGAAAGCCTAGTGGG  
 CAGGGACCTTCTCCAGAGGAAGTGGTGTGGTACCCGAGACCTCTCATTCTGCAGCTAGTCCACGTT  
 TCACCAGAAGATAAAAGAAAAACAACAGGAGAAGAAAATGACCCTGCCACATGGAAAACTCAAGACACC  
 TTTCCAAAGGAGTTGAAGCAGAAGAATGGGGTAAATTTCTTACACCAAAAAACAAGCTTTACACAGATTT  
 TGATGAAATTCGACAAGAAATGAAAATGAAAATGAAAGAATTTCAAGAAATAAATAGGGGGTAAGCCCT  
 GAGCCAATCCATCTCAAGTTTTCTCGCCAACGTTGTCAACCTGACACTTGTGGATTTACCGGGAATGA  
 CCAAAGTACCTGTAGGCGATCAGCCAAGGACATCGAGCTTCAGATCAGAGAACTTATTCTCGTTTCAT  
 CAGTAATCCCAATTCATTATCCTCGCCGTCACCTGCTGCAAAATACAGATATGGCAACATCAGAAGCACTC  
 AAGATTTCCAGAGAGGTAGATCCAGATGGGCGCAGAAGCTTAGCTGTAATCACTAAAATTGATCTCATGG  
 ATGCGGGTACTGATGCCATGGATGATTGATGGGAAGGGTTATTCCAGTCAAGCTTGAATAAATTGGAGT  
 AGTTAACAGAAGCCAAGTGGATATTAACAATAAGAAGAGTGAATGATTCAATCCGTGATGAGTATGCT  
 TTTCTTAAAAGAAGTACCCATCTCTGGCCAACAGAAAATGGAACAAAGTATCTTGCTAGGACCCTGAATA  
 GGTTACTTATGCATCATATCAGAGATTGTTTACCAGAGCTGAAAACAAGAATAAATGTCTTAGCTGCTCA  
 GTATCAGTCTCTTCTAAATAGCTATGGTGAACCGTGGATGATAAAAAGTCTACTTTACTCCAGCTTATT  
 ACCAAATTTGCCACAGAGTATTGTAACACGATTGAAGGAACCGCAAAGTACATTGAACTTCTGAGCTAT  
 CCGGTGGTGTAGGATTTGTTATATTTTCCATGAGACTTTCGGGGCAACCTTAGAATCTGTGGACCCACT  
 AGGTGGCCTTAACACTATTGACATCCTGACTGCCATCAGAAATGCTACTGGCCCCGCTCCTGCTTTATTT  
 GTGCCTGAAGTTTCATTTGAGTTACTGGTCAAACGTCAGATTAAGCGTCTAGAAGAGCCAGCCTACGGT  
 GTGTGGAGCTGGTCCATGAGGAGATGCAGAGGATCATTGAGTGTAGCAATTACAGCACACAGGAATT  
 GTTACGGTTCCCTAAACTTACGATGCCATAGTTGAAGTGTGACCTGTCTTCTTCGTAAGGTTGCC  
 GTGACAAATGAAATGGTGCATAACTTAGTGCAATTGAGCTAGCGTATATCAACACAAAACACCCCGACT  
 TTGCTGATGCCTGTGGGTAATGAACAATAATATAGAGGAACAAAGAAGAAACAGGCTAGCAAGAGAGCT  
 GCCTTCAGCTGGATCACGGGACAAGTCCCATCTGCAGGTGGTGGGATTGGAGACGGTGGTCAGGAACCA  
 ACAACAGGCAACTGGAGAGGAATGCTGAAAACCTCAAAGCTGAAGAATTACTTGTGAAGAAAAATCAA  
 AACCAATTTCAATTATGCCAGCAAGTCCACAGAAAGGCCATGCTGTCAATTTGCTAGATGTGCCAGTTC  
 AGTTGCAAGAAAATGTCTGCCCCGAGAACAGCGAGATTGTGAGGTTATTGAAAGACTTATCAAATCATAT  
 TTTCTAATTGTCAGAAAGAATATTCAAGACAGTGTCCAAAGGCAGTAATGCATTTTTGGTTAATCATG  
 TGAAAGATACTCTTACAGTGAAGTGGTGGGAGCTGTATAAGTCATCCTTATTAGATGACCTTCTGAC  
 TGAATCCGAGGACATGGCCCAACGAAGAAAAGAAGCAGCGGATATGCTGAAGGCATTACAAGGAGCCAGT  
 CAAATTATTGCTGAAATCCGAGAGACTCATCTTTGGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_152816

**Insert Size:** 2139 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>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><a href="#">NM_152816.3</a></u> , <u><a href="#">NP_690029.2</a></u>
<b>RefSeq Size:</b>	4073 bp
<b>RefSeq ORF:</b>	2139 bp
<b>Locus ID:</b>	74006
<b>UniProt ID:</b>	<u><a href="#">Q8K1M6</a></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 (1) has multiple differences in the coding region but maintains the reading frame, compared to variant 6. The encoded isoform (a) 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>