

Product datasheet for **MC220556**

Dnm1l (NM_001025947) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnm1l (NM_001025947) 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: >MC220556 representing NM_001025947
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGCGCTGATCCCGTTCATCAATAAGCTGCAGGACGTCTTCAACACAGTGGGTGCGGACATCATCC
 AGCTGCCTCAGATCGTCGTAGTGGGAACGCAGAGCAGTGGGAAGAGCTCAGTGCTGGAAAGCCTAGTGGG
 CAGGGACCTTCTCCAGAGGAAGTGGTGTGGTACCCGAGACCTCTCATTCTGCAGCTAGTCCACGTT
 TCACCAGAAGATAAAAGAAAAACAACAGGAGAAGAAAATGGAGTTGAAGCAGAAGAATGGGGTAAATTTT
 TTCACACCAAAAAACAAGCTTTACACAGATTTTGATGAAATTCGACAAGAAATGAAAATGAAACTGAAAG
 AATTTTCAGGAAATAATAAGGGGTAAGCCCTGAGCCAATCCATCTCAAGGTTTTCTCGCCCAACGTTGTC
 AACCTGACACTTGTGGATTTACCGGAATGACCAAGTACCTGTAGGCGATCAGCCCAAGGACATCGAGC
 TTCAGATCAGAGAAGTATTCTCGTTTATCAGTAATCCCAATCCATTATCCTCGCCGCTACTGCTGC
 AAATACAGATATGGCAACATCAGAAGCACTCAAGATTTCCAGAGAGGTAGATCCAGATGGGCGCAGAACT
 CTAGCTGTAATCACTAACTTGATCTCATGGATGCGGGTACTGATGCCATGGATGTATTGATGGGAAGGG
 TTATTCAGTCAAGCTTGAATAATTGGAGTAGTTAACAGAAGCCAAGTGGATATTAACAATAAGAAGAG
 TGTAAGTATTCAATCCGTGATGAGTATGCTTTTCTTCAAAGAAGTACCCATCTCTGGCCAACAGAAAT
 GGAACAAAGTATCTTGCTAGGACCTGAATAGTTACTTATGCATCATATCAGAGATTGTTTACCAGAGC
 TGAACAAAGAATAAATGTCTTAGCTGCTCAGTATCAGTCTCTTCTAAATAGCTATGGTGAACCGGTGGA
 TGATAAAAGTGTACTTTACTCCAGCTTATTACCAATTTGCCACAGAGTATTGTAAACAGATTGAAGGA
 ACCGCAAAGTACATTGAACTTCTGAGCTATGCGGTGGTGTAGGATTTGTTATATTTCCATGAGACTT
 TCGGGCGAACCTTAGAATCTGTGGACCCACTAGTGGCCTAACACTATTGACATCCTGACTGCCATCAG
 AAATGCTACTGGCCCCGCTCTGCTTTATTTGTGCCTGAAGTTTCATTTGAGTTACTGGTCAAACGTCAG
 ATTAAGCGTCTAGAAGAGCCAGCTACGGTGTGTGGAGCTGGTCCATGAGGAGATGCAGAGGATCATT
 AGCATTGTAGCAATTACAGCACACAGGAATTGTTACGGTTCCTAACTTACAGTGCATAGTTGAAGT
 AGTGACCTGTCTTCTCGTAAAAGGTTGCCCGTGACAAATGAAATGGTGCATAACTTAGTGGCAATTGAG
 CTAGCGTATATCAACACAAAACACCCCGACTTTGCTGATGCCTGTGGGCTAATGAACAATAATATAGAGG
 AACAAAGAAGAACAGGCTAGCAAGAGAGCTGCCTTTCAGTGGATCACGGGACAAGTCCCATCTGCAGG
 TGGTGGGATTGGAGACGGTGGTCAAGAACCAACAGGCAACTGGAGAGGAATGCTGAAAACCTCAAAA
 GCTGAAGAATTACTTGTGAAGAAAAATCAAAACCAATCCAATTATGCCAGCAAGTCCACAGAAAGGCC
 ATGCTGTCAATTTGCTAGATGTGCCAGTCCAGTTGCAAGAAAAGTGTCTGCCCGAGAACAGCGAGATTG
 TGAGGTTATTGAAAGACTTATCAAAATCATATTTCTAATTGTGAGAAAGAATATTCAAGACAGTGTCCCA
 AAGGCAGTAATGCATTTTTGGTTAATCATGTGAAAGTACTCTTTCAGAGTGAAGTGGTAGGGCAGCTGT
 ATAAGTCATCCTTATTAGATGACCTTCTGACTGAATCCGAGGACATGGCCCAACGAAGAAAAGAAGCAGC
 GGATATGCTGAAGGCATTACAAGGAGCCAGTCAAATTATTGCTGAAATCCGAGAGACTCATCTTTGG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001025947
- Insert Size:** 2100 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).
- 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

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 (2) has multiple differences in the coding region but maintains the reading frame, compared to variant 6. The encoded isoform (b) is shorter than 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.