

## Product datasheet for **MC219898**

### **Dmpk (NM\_032418) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dmpk (NM_032418) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dmpk
Synonyms:	DM; Dm15; DMK; MDPK; MT-PK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219898 representing NM\_032418  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCAGCCGAAGTGC GGCTGAGGCAGCTCCAGCAGCTGGTGCTGGACCCAGGCTTCTGGGACTGGAGC  
 CCCTGCTCGACCTTCTCCTGGGCGTCCACCAGGAGCTGGGTGCCTCTCACCTAGCCAGGACAAGTATGT  
 GGCCGACTTCTTGCAGTGGTGGAGCCATTGCAGCAAGGCTTAAGGAGGTCCGACTGCAGAGGGATGAT  
 TTTGAGATTTTGAAGGTGATCGGGCGTGGGGCGTTGAGCGAGGTAGCGGTGGTGAAGATGAAACAGACGG  
 GCCAAGTGTATGCCATGAAGATTATGAATAAGTGGGACATGCTGAAGAGAGGGCGAGGTGTCGTGCTTCCG  
 GGAAGAAAGGGATGATTAGTGAAGGGGACCGGCGCTGGATCACACAGCTGCACCTTTCCTCCAGGAT  
 GAGAACTACCTGTACCTGGTCATGGAATACTACGTGGGCGGGACCTGCTAACGCTGCTGAGCAAGTTG  
 GGGAGCGGATCCCGCCGAGATGGCTCGCTTCTACCTGGCCGAGATTGTCATGGCCATAGACTCCGTGCA  
 CCGGCTGGGCTACGTGCACAGGGACATCAAACCAGATAACATTCTGCTGGACCGATGTGGGCACATTCCG  
 CTGGCAGACTTCCGCTCCTGCCTCAAACCTGCAGCCTGATGGAATGGTGGAGTTCGCTGGTGGCTGTGGCA  
 CCCCAGACTACCTGTCTCCTGAGATTCTGCAGGCCGTTGGTGGAGGGCTGGGGCAGGCAGCTACGGGCC  
 AGAGTGTGACTGGTGGGCACTGGGCGTGTTCGCCTATGAGATGTTCTATGGGCAGACCCCTTCTACGCG  
 GACTCCACAGCCGAGACATATGCCAAGATTGTGCACTACAGGGAACACTTGTGCTGCCGCTGGCAGACA  
 CAGTTGTCCCCGAGGAAGCTCAGGACCTCATTGCTGGGCTGCTGTGCTGCTGAGATAAGGCTAGGTGCG  
 AGGTGGGGCAGGTGATTTCCAGAAACATCCTTTCTTTGGCCCTTGATTGGGAGGGTCTCCGAGACAGT  
 GTACCCCTTTACACCAGACTTCGAGGGTGCCACGGACACATGCAATTCGATGTGGTGGAGACCGGC  
 TCACTGCCATGGTGAAGCGGGGGGAGACGCTGTCAGACATGCAGGAAGACATGCCCCTTGGGTGCG  
 CCTGCCCTTCGTGGGCTACTCCTACTGCTGCATGGCCTTCAGAGACAATCAGGTCCCGGACCCACCCCT  
 ATGGAAGTACAGGCCCTGCAGTTGCCTGTGTCAGACTTGAAGGGCTTGACTTGCAGCCCCAGTGTCCC  
 CACCGGATCAAGTGGCTGAAGAGGCTGACCTAGTGGTGTCCCTGCCCTGTGGCTGAGGCAGAGACCAC  
 GGTAACGCTGCAGCAGCTCCAGGAAGCCCTGGAAGAAGAGGTTCTCACCCGCGAGAGCCTGAGCCGCGAG  
 CTGGAGGCCATCCGACCCCAACCAAGAACTTCTCCAGCAACTACAGGAGGCCGAGGTCCGAAACCGAG  
 ACCTGGAGGCGCATGTTCCGCGAGCTACAGGAACGGATGGAGATGCTGCAGGCCCCAGGAGCCGACGCCAT  
 CACGGGGTCCCCAGTCCCCGGCCACGGATCCACCTTCCCATCTAGATGGCCCCCGGCGTGGCTGTG  
 GGCAGTCCCCGCTGGTGGGGCCAGGCCCATGCACCCCGTACCTGCTGCTCCCTGCCAGGATCCCTA  
 GGCTGGCTATCCGAGGCGCGTTGCCTGCTCCTGTTCCGCGCTGCTCTGGCTGCTGCCGCCACACTGGG  
 CTGCACTGGGTTGGTGGCCTATACCGGGGCTCACCCAGTCTGGTGTTCCTGGGAGCCACTTCGCG  
 CCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_032418
- Insert Size:** 1896 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\\_032418.2](#), [NP\\_115794.1](#)

**RefSeq Size:** 2761 bp

**RefSeq ORF:** 1896 bp

**Locus ID:** 13400

**UniProt ID:** [P54265](#)

**Cytogenetics:** 7 9.46 cM

**Gene Summary:** The protein encoded by this gene is a serine/threonine protein kinase that contains coiled-coil and C-terminal membrane association domains. In the embryonic mouse, it is found in cardiac and skeletal myocytes where it appears to play a role in myogenesis. In adults, the transcript is localized to several tissues including brain, heart, and skeletal and smooth muscle, and a function in cytoskeletal remodeling has been described. Transcripts with expanded CUG repeats in the 3' untranslated region mediate alternative splicing of several genes and sequester RNA binding proteins and RNA transcripts that contain CAG repeats, resulting in myotonic dystrophy, an autosomal dominant neuromuscular disorder. Alternative splicing results in multiple protein coding and non-coding transcript variants. [provided by RefSeq, Oct 2014]

Transcript Variant: This variant (1) represents the longest transcript, encodes the longest isoform (1) and is also known as DMPK A. Sequence Note: This RefSeq record was created from genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.