

Product datasheet for **MC219606**

Dmpk (NM_001190490) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmpk (NM_001190490) 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: >MC219606 representing NM_001190490
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAGCCGAAGTGC GGCTGAGGCAGCTCCAGCAGCTGGTGCTGGACCCAGGCTTCTGGGACTGGAGC
 CCCTGCTCGACCTTCTCCTGGGCGTCCACCAGGAGCTGGGTGCCTCTCACCTAGCCAGGACAAGTATGT
 GGCCGACTTCTTGCAGTGGGTGGAGCCATTGCAGCAAGGCTTAAGGAGGTCCGACTGCAGAGGGATGAT
 TTTGAGATTTTGAAGGTGATCGGGCGTGGGGCGTTGAGCGAGGTAGCGGTGGTGAAGATGAAACAGACGG
 GCCAAGTGTATGCCATGAAGATTATGAATAAGTGGGACATGCTGAAGAGAGGGCGAGGTGTCGTGCTTCCG
 GGAAGAAAGGGATGATTAGTGAAGGGGACCGGCGCTGGATCACACAGCTGCACCTTTCCTCCAGGAT
 GAGAACTACCTGTACCTGGTCATGGAATACTACGTGGGCGGGACCTGCTAACGCTGCTGAGCAAGTTT
 GGGAGCGGATCCCGCCGAGATGGCTCGCTTCTACCTGGCCGAGATTGTCATGGCCATAGACTCCGTGCA
 CCGGCTGGGCTACGTGCACAGGGACATCAAACCAGATAACATTCTGCTGGACCGATGTGGGCACATTCCG
 CTGGCAGACTTCCGCTCCTGCCTCAAACCTGCAGCCTGATGGAATGGTGAAGTTCGCTGGTGGCTGTGGGCA
 CCCCAGACTACCTGTCTCCTGAGATTCTGCAGGCCGTTGGTGGAGGGCCTGGGGCAGGCAGCTACGGGCC
 AGAGTGTGACTGGTGGGCACTGGGCGTGTTCGCCTATGAGATGTTCTATGGGCAGACCCCTTCTACGCG
 GACTCCACAGCCGAGACATATGCCAAGATTGTGCACTACAGGGAACACTTGTGCTGCGCTGCCGCTGGCAGACA
 CAGTTGTCCCCGAGGAAGCTCAGGACCTCATTGCTGGGCTGCTGTGCTGCTGAGATAAGGCTAGGTGCG
 AGGTGGGCAGACTTCGAGGGTCCACGGACACATGCAATTTTCGATGTGGTGGAGGACCGGCTCACTGCC
 ATGGTGAGCGGGGGCGGGGAGACGCTGTCAGACATGCAGGAAGACATGCCCTTGGGGTGGCCTGCCCT
 TCGTGGGCTACTCCTACTGCTGCATGGCCTTTCAGAGACAATCAGGTCCCGGACCCACCCCTATGGAAT
 AGAGGCCCTGCAGTTGCCTGTGTGAGACTTGAAGGGCTTGACTTGCAGCCCCAGTGTCCCCACCGGAT
 CAAGTGGCTGAAGAGGCTGACCTAGTGGCTGTCCCTGCCCTGTGGCTGAGGCAGAGACCACGGTAACGC
 TGCAGCAGCTCCAGGAAGCCCTGGAAGAAGAGTTCTCACCCGGCAGAGCCTGAGCCGCGAGCTGGAGGC
 CATCCGGACCGCAACCAGAACTTCTCCAGCAACTACAGGAGCCGAGGTCCGAAACCAGACCTGGAG
 GCGCATGTTCCGAGCTACAGGAACGGATGGAGATGCTGCAGGCCCCAGGAGCCGAGCCATCACGGGGG
 TCCCCAGTCCCCGGGCCACGGATCCACCTTCCCATCTAGATGGCCCCCGGCCGTGGCTGTGGGCCAGTG
 CCCGCTGGTGGGGCCAGGCCCATGCACCGCCGTCACTGCTGCTCCCTGCCAGGATCCCTAGGCCTGGC
 CTATCCGAGGCGGTTGCCTGCTCCTGTTCCGCGCTGCTCTGGCTGCTGCCGCCACACTGGGCTGCACTG
 GTTGGTGGCCTATACCGCGGTCTCACCCAGTCTGGTGTTCGCGGGAGCCACCTTCGCCCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001190490
- Insert Size:** 1818 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_001190490.1](#), [NP_001177419.1](#)

RefSeq Size: 2683 bp

RefSeq ORF: 1818 bp

Locus ID: 13400

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 (2) uses an alternate in-frame splice site within an exon of the coding region, compared to variant 1. The resulting protein (isoform 2) is shorter, compared to isoform 1. 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.