

Product datasheet for **MC218159**

Dmpk (NM_001190491) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Dmpk (NM_001190491) 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: >MC218159 representing NM_001190491
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCAGCCGAAGTGC GGCTGAGGCAGCTCCAGCAGCTGGTGCTGGACCCAGGCTTCTGGGACTGGAGC
 CCCTGCTCGACCTTCTCCTGGGGCTCCACCAGGAGCTGGGTGCCTCTCACCTAGCCAGGACAAGTATGT
 GGCCGACTTCTTGCAGTGGGTGGAGCCATTGCAGCAAGGCTTAAGGAGGTCCGACTGCAGAGGGATGAT
 TTTGAGATTTTGAAGGTGATCGGGCGTGGGGCGTTGAGCGAGGTAGCGGTGGTGAAGATGAAACAGACGG
 GCCAAGTGTATGCCATGAAGATTATGAATAAGTGGGACATGCTGAAGAGAGGGCGAGGTGTCGTGCTTCCG
 GGAAGAAAGGGATGATTAGTGAAGGGGACCGGCGCTGGATCACACAGCTGCACCTTGCCTTCCAGGAT
 GAGAACTACCTGTACCTGGTCATGGAATACTACGTGGCGGGGACCTGCTAACGCTGCTGAGCAAGTTT
 GGGAGCGGATCCCGCCGAGATGGCTCGCTTCTACCTGGCCGAGATTGTCATGGCCATAGACTCCGTGCA
 CCGGCTGGGCTACGTGCACAGGGACATCAAACCAGATAACATTCTGCTGGACCGATGTGGGCACATTCCG
 CTGGCAGACTTCCGCTCCTGCCTCAAACCTGCAGCCTGATGGAATGGTGAGGTGCTGGTGGCTGTGGGCA
 CCCCAGACTACCTGTCTCCTGAGATTCTGCAGGCCGTTGGTGGAGGGCCTGGGGCAGGCAGCTACGGGCC
 AGAGTGTGACTGGTGGGCACTGGGCGTGTTCGCCTATGAGATGTTCTATGGGCAGACCCCTTCTACGCG
 GACTCCACAGCCGAGACATATGCCAAGATTGTGCACTACAGGGAACACTTGTGCTGCGCTGCCGCTGGCAGACA
 CAGTTGTCCCCGAGGAAGCTCAGGACCTCATTGCTGGGCTGCTGTGCTGCTGAGATAAGGCTAGGTGCG
 AGGTGGGGCAGGTGATTTCCAGAAACATCCTTTCTTTGGCCCTTGATTGGGAGGGTCTCCGAGACAGT
 GTACCCCTTTACACCAGACTTCGAGGGTGCCACGGACACATGCAATTCGATGTGGTGGAGGACCGGC
 TCACTGCCATGGTGAGCGGGGGGGGAGACGCTGTCAGACATGCAGGAAGACATGCCCTTGGGGTGGC
 CCTGCCCTTCGTGGGCTACTCCTACTGCTGCATGGCCTTCAGAGACAATCAGGTCCCGGACCCACCCCT
 ATGGAAGTACAGGCCCTGCAGTTGCCTGTGTCAGACTTGAAGGGCTTGACTTGCAGCCCCAGTGTCCC
 CACCGGATCAAGTGGCTGAAGAGGCTGACCTAGTGGCTGTCCCTGCCCTGTGGCTGAGGCAGAGACCAC
 GGTAACGCTGCAGCAGCTCCAGGAAGCCCTGGAAGAAGAGGTTCTCACCCGGCAGAGCCTGAGCCGCGAG
 CTGGAGGCCATCCGACCCCAACCAAGAACTTCTCCAGCAACTACAGGAGGCCGAGGTCCGAAACCGAG
 ACCTGGAGGCGCATGTTCCGGCAGCTACAGGAACGGATGGAGATGCTGCAGGCCCCAGGAGCCGAGATCC
CTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001190491

Insert Size: 1614 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_001190491.1](#), [NP_001177420.1](#)

RefSeq Size: 2624 bp

RefSeq ORF: 1614 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 (3) lacks two exons in the 3' coding region, which results in a frameshift and an early stop codon, compared to variant 1. The resulting protein (isoform 3) is shorter, compared to isoform 1, and is also known as DMPK E. 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.