

Product datasheet for **MC221728**

Mylk3 (NM_175441) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mylk3 (NM_175441) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mylk3
Synonyms:	D830007F02Rik; MLCK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221728 representing NM_175441
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAGGAGTTTCAGAGGAGGACCCAGAGGGTCTGGCCCCCAGGGTCTGCCAGCATTGGCGGGAGCCT
 GCTTAGCCACCATGGACAAAAAAGCTTAATGTGCTGACTGAGAAGGTCGACAGACTTTGCATTTCCAAGA
 AGATGTACAGAGAAGCTGCAGTGTGTGTGCCAAGGCATGGATCACCTGGAAACAAGATCTGCATCGGCTG
 GAGGCCTCCCGGAGTTGAGTCTGGCAGGGTCTGGCAGCACTCCCCAACACGGCTCAGGCCGCATGGC
 CTGAGGTCCTGGAGCTGGTGGGGCTGTGCGGCAGGAGGGTGGCCAGCATGGTGCCAGGCTCGAAGCCCT
 CTTCAAGATGGTGGTGGCTGTGGACAGGGCTATTACTTTGGTAGGGTCCACATTCAGAATTCGAAGGTG
 GCTGATTTTCATCATGCAAGGAACCGTCCCGGGAGAAAAGGCAGTCTGGCCGATGGCCGGAGGAGAACA
 AGGAGCAAGCAGAAGTTGCTGGAGTGAAGCCAAACCATGTACTGACTACAGGAGGTGTGCAAGCTGACGC
 CTCTAGGACGCTGTGGGAAGAGAGCCAAAAGGAGGACATACCTGTGCGAACAGTGGAGGGGCTGCCTCTC
 ATCATCAATACGTCACCTGAAGGGAGCTGACCTAACCCAGGCAGGAGCCTCACTGAGGCAGGGAGTTGAAG
 TTCTTGGCCCAGGCCAAGTACCCCTACCCACAGAAGCAGAATCCAGGCTTCTTGAGACAGCCAGTGAGAA
 CACTGGAGCCACCTGGAATGTCCGTAGCAATCGACAGAATCAGCGAGGTCTCACTAGCCTCAAGATG
 TCACAAGTGGTGGTCAAGAAACCTCATCCAGCAAGCCTGACTGTTGGCTTTCAGAAGAGGCCATGAGGC
 TGAGTTCAAGGCCTCTCCCTCAGCCCCTAGGACCACTAACTCCAGACAGTGCATTCACAGTGGTGTATGC
 ACTTCCCAGGATCCCTATCAATATGCAAGAGATGGCTACTCTGGGGAGTTGCTTGAGACCCAAAGTGGC
 AGTCCCATTGGCTCTGCAGAAGCTCCAGGCCTTGGGACTGTGTTAGAAGACCAGATCCCTAAAGGAGCCA
 GACCATTTCCACCCCTGCCAAAGAGGAGCAGCAACAATGGTGGCATGAGTGCAGAGGAGGATAGGGTC
 TGGGGCTGAGCCTATGAGAGGACCAAGCTTGGCTACAAGGGACTGGAGAGATGAGACTGTTGGGACCACA
 GACCTGCAGCAAGGCATAGACCCAGGAGCAGTGGCCCTGAGCCTGGGAAGGACCACGCAGCCCAGGGCC
 CAGGAAGAAGTGAAGCTGGAAGGCTATCTTCTGCTGCAGAGGCTGCCATTGTGGTTCTAGATGACAGCGC
 AGCACCCCCAGCCCCTTTTGAACACCGGGTAGTGAGCATCAAAGATACCCGATCTCAGCAGGCTACAGC
 GTATCCCAACATGAAGTCTTAGGAGGGGTGCGTTTGGCCAGGTGCACAGGTGTACAGAGAGGTCTACAG
 GCCTTGCAGTGGCAGCCAAGATCATCAAAGTGAAGAACGTAAAGGACCGGGAGGATGTGAAGAATGAGGT
 CAACATCATGAACCAGCTCAGCCACGTAACCTTGATCCAACCTTTATGATGCGTTTGAAGCAAGAGCAGC
 TTCCTCTGATCATGGAGTATGTGGATGGAGGCGAACTTTGACCGGATCACGGATGAGAAGTACCACC
 TCACTGAGTTGGATGTGGTCTTGTTCACGAGGCAGATCTGTGAGGGTGTGCATTACCTGCATCAGCATA
 TATCTGCACCTGGACCTCAAGCCTGAGAACATATTGTGTGTGAGCCAGACAGGGCATCAAATTAAGATC
 ATTGACTTTGGGCTGGCTAGAAGATACAAGCCTCGGGAGAAGCTAAAGGTGAACCTTTGGTACTCCGGAGT
 TCCTGGCCCCAGAAGTTGTTAACTATGAGTTTGTGTCAATTTCAAACAGACATGTGGAGTGTGGGAGTTAT
 CACCTACATGCTACTCAGTGGTTTGTCCCATTCTAGGGGAGACAGATGCAGAGACCATGAATTTTATT
 GTGAAGTGCAGCTGGGATTTTCGATGCTGATACCTTCAAAGGGCTGTCGGAGGAAGCCAAGGACTTTGTTT
 CCCGGTACTGGTCAAAGAGAAGAGCTGTAGGATGAGCGCCACACAGTGCCTGAAACACGAGTGGTTAAG
 TCACCTGCCTGCCAAAGCCTCGGGCTCCAACGTTCCGCTCAGATCCCAACAACCTGCTGCAGAAATATATG
 GCTCAGAGTAAATGGAAGAAACATTTCCACGTGGTACTGCAGTCAACAGGCTACGGAAATTTCCAACGT
 GTCCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_175441
Insert Size: 2388 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:	<ol style="list-style-type: none">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_175441.5 , NP_780650.2
RefSeq Size:	3070 bp
RefSeq ORF:	2388 bp
Locus ID:	213435
UniProt ID:	Q3UIZ8
Cytogenetics:	8 C3
Gene Summary:	<p>Kinase that phosphorylates MYL2 in vitro. Has been proposed to be calmodulin-dependent (PubMed:17885681), although MYL2 phosphorylation has also been observed in the presence or absence of calmodulin (PubMed:18202317). Promotes sarcomere formation in cardiomyocytes and increases cardiomyocyte contractility.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>