

Product datasheet for **MC228605**

Mylk3 (NM_001297612) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mylk3 (NM_001297612) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mylk3
Synonyms:	D830007F02Rik; MLCK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228605 representing NM_001297612
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGA

ACTCTGTGCCCTGTCCCAGCACTGTGCAGGCCAGCACCAGAGGCCAGCAGCGGGCATCAGATT
 ACACCCAGATATTTGCGAACAAGGAGCAAGCAGAAGTTGCTGGAGTGAAGCCAAACCATGTACTGACTAC
 AGGAGGTGTGCAAGCTGACGCCTCTAGGACGCTGTGGGAAGAGAGCCAAAAGGAGGACATACCTGTGCGA
 ACAGTGGAGGGGCTGCCTCTCATCATCAATACGCTCACTGAAGGGAGCTGACCTAACCCAGGCAGGAGCCT
 CACTGAGGCAGGGAGTTGAAGTCTTGGCCAGGCCAAGTACCCCTACCCACAGAAGCAGAATCCAGGCT
 TCCTGAGACAGCCAGTGAGAACACTGGAGCCACCCTGGAATTGTCCTAGCAATCGACAGAATCAGCGAG
 GTCCTCACTAGCCTCAAGATGTCACAAGTGGTGGTCAAGAACTCATCCAGCAAGCCTGACTGTTGGC
 TTTCAGAAGAGGCCATGAGGCTGAGTTCAGGGCCTCTCCCTCAGCCCTAGGACCACTAACTCCAGACAG
 TGACATTCACAGTGGTGTGCACTTCCCAGGATCCCTATCAATATGCAAGAGATGGCTACTCCTGGGGAG
 TTGCTTGAGACCCAAAGTGGCAGTCCCATTGGCTCTGCAGAAGCTCCAGGCCTTGGGACTGTGTTAGAAG
 ACCAGATCCCTAAAGGAGCCAGACCATTCCACCCCTGCCAAAGAGGAGCAGCAACAATGGTGGCATGAG
 TGCAGAGGAGGAGATAGGGTCTGGGGCTGAGCCTATGAGAGGACCAAGCTTGGCTACAAGGGACTGGAGA
 GATGAGACTGTTGGGACCACAGACCTGCAGCAAGGCATAGACCCAGGAGCAGTGAGCCCTGAGCCTGGGA
 AGGACCACGCAGCCAGGGCCAGGAAGAAGTGAAGCTGGAAGGCTATCTTCTGCTGCAGAGGCTGCCAT
 TGTGGTCTAGATGACAGCGCAGCACCCCCAGCCCTTTTGAACACCGGGTAGTGAGCATCAAAGATACC
 CTGATCTCAGCAGGCTACACGGTATCCCAACATGAAGTCTTAGGAGGGGGTGGTTGGCCAGGTGCACA
 GGTGTACAGAGAGGTCTACAGGCCTTGCACTGGCAGCCAAGATCATCAAAGTGAAGAAGTAAAGGACCG
 GGAGGATGTGAAGAATGAGGTCAACATCATGAACCAGCTCAGCCACGTAAACTTGATCCAACCTTATGAT
 GCGTTTGAGAGCAAGAGCAGCTTCACTCTGATCATGGAGTATGTGGATGGAGGCGAACTCTTTGACCGGA
 TCACGGATGAGAAGTACCACCTCACTGAGTTGGATGTGGTCTTGTTCACGAGGCAGATCTGTGAGGGTGT
 GCATTACCTGCATCAGCACTATATCCTGCACCTGGACCTCAAGCCTGAGAACATATTGTGTGTCAGCCAG
 ACAGGGCATCAAATTAAGATCATTGACTTTGGGCTGGCTAGAAGATACAAGCCTCGGGAGAAGCTAAAGG
 TGAACCTTGGTACTCCGGAGTTCCTGGCCCCAGAAGTTGTTAACTATGAGTTTGTGCATTTCCAACAGA
 CATGTGGAGTGTGGGAGTTATCACCTACATGCTACTCAGTGGTTGTCCCCATTTCTAGGGGAGACAGAT
 GCAGAGACCATGAATTTTATTGTGAAGTGCAGCTGGGATTTGATGCTGATACCTTCAAAGGGCTGTCGG
 AGGAAGCCAAGGACTTTGTTCCCGGTTACTGGTCAAAGAGAAGAGCTGTAGGATGAGCGCCACACAGTG
 CCTGAAACACGAGTGGTTAAGTACCTGCCTGCCAAAGCCTCGGGCTCCAACGTTGCGCTCAGATCCCAA
 CAACTGCTGCAGAAATATATGGCTCAGAGTAAATGGAAGAAACATTTCCACGTGGTACTGCAGTCAACA
 GGCTACGGAAATTTCCAACGTGTCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001297612

Insert Size: 1989 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<u>NM_001297612.1</u> , <u>NP_001284541.1</u>
RefSeq Size:	2617 bp
RefSeq ORF:	1989 bp
Locus ID:	213435
UniProt ID:	<u>Q3UIZ8</u>
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 (2) uses an alternate first exon compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1.</p>