

## Product datasheet for **RN211117**

### **Mylk3 (NM\_001110810) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mylk3 (NM_001110810) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mylk3
Synonyms:	MLCK; RGD1305801
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN211117 representing NM\_001110810  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCAGGAGTTTCAGAGGAGGATCCAGAGGGTCTGGGCCCCAGGGTCTGCCAGCGTTGGCGGGAGCCT  
 GCTTAGTCACCGTGGACAAAAAAGCTTAATGTGCTGACTGAGAAGGTCGACAGACTTTGCATTTCCAAGA  
 AGATGTACAGAGAAGCTACAGTGTGTGTGCCAAGGCATGGATCACCTGGAAACAAGTCTGCATCGGCTG  
 GAGGCCTCCAGGAGTTGGGTCTGGCAGGGCCCGGCAGCACTTCCCAGCCGCTGCTCAGGCCGATGGC  
 CTGAGGTCCTGGAGCTGGTGGAGGCCGTGCGGCAGGAGGGTGCCAGCACGGTCCAGGCTCGAAGCCCT  
 CTTCAAGATGGTGGTGGCTGTGGACAGGGCTATTACTTTGGTAGGGTCCACAATCCAGAACTCCAAAGTG  
 GATGATTTTCATCTGCAAGGGACCGTCCCTGGAGGAAAGGCAGTCTGGCTGATGGCCCTGAGGAGAACA  
 AGGAGCAAGCAGAAGTGGCTGGAGTGAAGCCAAAGCATGTGCTGAATACAGGAAGTGTGCAAGCTGCCAC  
 TTCTAGGGCGCTGTGGGAAGAGAGCCAGAAGCAGGACACACCCGTGGGGACAGTGGAGGGGCTGCCTCTC  
 ATCATCGATACGCTCACTGAAGGGAGCTGACCTCACCCAGGCTGGAGCCTCACTGAGGCAGGGAGTTGAAG  
 CTCTTGACCCAGGCCAAGAACCCCAACCCGAGAGGCAGAATCCAGGCTTCTCTGACTAGCCAGCGAGGA  
 CACTGGGACCACCTGGAATTGTCTGTAGCAATTGACAGAATCAGTGAGGTCCTCACTAGCCTCAGGATG  
 TCCCAAAGTGCTGGCGAAGGAACCTCATCCAGCAAGCCTGACTGTTTCAGAGCCTGGCCCTCAGCCCTAG  
 GGCCACTAACTACAGACAGTGCATTACAGTGTGAAGGACTTCCCAGGATCTCTGTCCGATGCGAGA  
 GATGACTACTCCTGAGGAGCTGTTTGGACCCAAGGTGGCAGCCCCATTGGCTCGGCAGAAGCTCCAGGC  
 CCTGGAAGTGTGTTAGAAGACCAGATCCCTAAAGGAGCCAGACCATTTCCACCCCTGCCAAAGAGGAGCT  
 GGTCAACAAGGGACTGGAGAGATGAACCTGTTGGGACCACAGACCTGCAGCAAGGCAGAGACCCAGGAGCG  
 GTGAGCCCTGAACCTGGGAAGGACCATGCAGCCAGGGCCAGGAGAACCGAAGCTGGAAGGAGGGTGT  
 CTTCTGCTGCAGAGGCTGCCATCGTAGTTCTAGATGACAGCGCAGCACCCCAAGCCCTTTTGAACACCG  
 GGTAGTGAGCATCAAAGACACCCCTCATCTCGACAAGTTACACAGTGTCCCAACACGAAGTCTTGGGAGGG  
 GGCCGGTTTGGCCAGGTGCACAGGTGTACAGAGCGGTCCACAGGCCTTGCACTGGCAGCCAAGATCATCA  
 AAGTGAAGAACATAAAGGACCGGAGGATGTGAAGAATGAGATCAACATCATGAACCAGCTCAGCCACGT  
 AAACCTTGATCCAACCTTTATGATGCTTTTGGAGCAAGAAGAGCTTCAACCTGATCATGGAGTATGTGGAT  
 GGAGGTGAACCTTCGACCGGATCACGGATGAGAAGTACCACCTGACCGAGCTGGATGTGGTCTTGTTC  
 CAAGGCAGATCTGTGAGGGTGTGCAATTACCTGCACCAGCACTACATTCTGCACCTGGACCTCAAGCCAGA  
 GAACATACTGTGTGCAGCCAGACTGGGCATCAAATTAAGATTATTGACTTTGGGCTGGTGAAGATAT  
 AAACCTCGGGAGAAGCTAAAGGTTAACTTTGGTACTCCAGAGTTCCTGGCTCCAGAAGTTGTTAACTATG  
 AGTTTGTCTCATTCCCAACAGACATGTGGAGTGTGGGAGTTATCACCTACATGCTACTCAGTGGTTTGT  
 CCCATTTCTAGGGGAAACAGATGCAGAGACCATGAATTTTATTGTGAAGTGCAGCTGGGATTTCCGATGCT  
 GATACCTTCAAAGGGCTGTCAGAGGAAGCCAAGGACTTTGTTTACGGTGTGGTCAAAGAGAAGAGTT  
 GTAGGATGAGCGCCACACAGTGCCTGAAACATGAGTGGTAAATCACCTGATTGCCAAAGCCTCAGGCTC  
 CAACGTTGCGCTCAGATCCCAACTACTGCTGCAGAAATATATGGCTCAGCGTAAATGGAAGAAACATTT  
 CATGTGGTGACTGCAGTCAACAGGCTAAGAAAATTTCCAACGTGCC**TA**A

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001110810  
**Insert Size:** 2361 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001110810.1</a></u> , <u><a href="#">NP_001104280.1</a></u>
<b>RefSeq Size:</b>	2732 bp
<b>RefSeq ORF:</b>	2361 bp
<b>Locus ID:</b>	291926
<b>UniProt ID:</b>	<u><a href="#">E9PT87</a></u>
<b>Cytogenetics:</b>	19q11
<b>Gene Summary:</b>	Calmodulin-dependent kinase that phosphorylates MYL2 in vitro. Promotes sarcomere formation in cardiomyocytes. Increases cardiomyocyte contractility.[UniProtKB/Swiss-Prot Function]