

Product datasheet for **RR211117**

Mylk3 (NM_001110810) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR211117 representing NM_001110810
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAGGAGTTTCAGAGGAGGATCCAGAGGGTCTGGGCCCCAGGGTCTGCCAGCGTTGGCGGAGCCT
 GCTTAGTCACCGTGGACAAAAAATAATGTGCTGACTGAGAAGGTCGACAGACTTTGCATTTCCAAGA
 AGATGTACAGAGAAGCTACAGTGTGTGTGCCAAGGCATGGATCACCTGGAACAAGGCTGCATCGGCTG
 GAGGCCTCCAGGAGTTGGGTCTGGCAGGGCCCGCAGCACTTCCCAGCCGCTGCTCAGGCCGATGGC
 CTGAGGTCCTGGAGCTGGTGGAGGCCGTGCGGCAGGAGGGTGCCAGCACGGTCCAGGCTCGAAGCCCT
 CTTCAAGATGGTGGTGGCTGTGGACAGGGCTATTACTTTGGTAGGGTCCACAATCCAGAATCCAAAGTG
 GATGATTTTCATCTGCAAGGGACCGTCCCTGGAGGAAAGGCAGTCTGGCTGATGGCCCTGAGGAGAACA
 AGGAGCAAGCAGAAGTGGCTGGAGTGAAGCCAAAGCATGTGCTGAATACAGGAAGTGTGCAAGCTGCCAC
 TTCTAGGGCGCTGTGGGAAGAGAGCCAGAAGCAGGACACACCCGTGGGGACAGTGGAGGGCTGCCTCTC
 ATCATCGATACGTCAGTGAAGGGAGCTGACCTCACCCAGGCTGGAGCCTCACTGAGGCAGGGAGTTGAAG
 CTCTTGACCCAGGCCAAGAACCCACCCAGAGGCAGAAATCCAGGCTTCTGCACTAGCCAGCGAGGA
 CACTGGGACCACCTGGAATTGTCTGTAGCAATTGACAGAATCAGTGAGGTCCTCACTAGCCTCAGGATG
 TCCCAAAGTGTGGCGAAGGAACCTCATCCAGCAAGCCTGACTGTTTCAGAGCCTGGCCCTCAGCCCTAG
 GGCCACTAACTACAGACAGTGACATTCACAGTGTGAAGGACTTCCCAGGATCTCTGTCCGATGCGAGA
 GATGACTACTCCTGAGGAGCTGTTTGGAGCCAAAGTGGCAGCCCCATTGGCTCGCAGAAGCTCCAGGC
 CCTGGAATGTGTTAGAAGACCAGATCCCTAAAGGAGCCAGACATTTCCACCCCTGCCAAAGAGGAGCT
 GGTCAACAAGGGACTGGAGAGATGAACCTGTTGGGACCACAGACCTGCAGCAAGGCAGAGACCCAGGAGCG
 GTGAGCCCTGAACCTGGGAAGGACCATGCAGCCAGGGCCAGGAGAACCGAAGCTGGAAGGAGGGTGT
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 GGTAGTGAGCATCAAAGACACCCTCATCTCGACAAGTTACACAGTGTCCCAACACGAAGTCTTGGGAGGG
 GGCCGGTTTGGCCAGGTGCACAGGTGTACAGAGCGGTCCACAGGCCTTGCACTGGCAGCCAAGATCATCA
 AAGTGAAGAACATAAAGGACCGGAGGATGTGAAGAATGAGATCAACATCATGAACCAGCTCAGCCACGT
 AAACCTTGATCCAACTTTATGATGCTTTTGGAGCAAGAAGCAGCTTACCCTGATCATGGAGTATGTGGAT
 GGAGGTGAACCTTCGACCGGATCACGGATGAGAAGTACCACCTGACCGAGCTGGATGTGGTCTTGTTC
 CAAGGCAGATCTGTGAGGGTGTGATTACCTGCACCAGCACTACATTCTGCACCTGGACCTCAAGCCAGA
 GAACATACTGTGTGCAGCCAGACTGGGCATCAAATTAAGATTATTGACTTTGGGCTGGTGAAGATAT
 AAACCTCGGGAGAAGCTAAAGGTTAACTTTGGTACTCCAGAGTTCCTGGCTCCAGAAGTTGTTAACTATG
 AGTTTGTCTCATTCCCAACAGACATGTGGAGTGTGGGAGTTATCACCTACATGCTACTCAGTGGTTTGT
 CCCATTTCTAGGGGAAACAGATGCAGAGACCATGAATTTTATTGTGAAGTGCAGCTGGGATTTCCGATGCT
 GATACCTTCAAAGGGCTGTCAGAGGAAGCCAAGGACTTTGTTTACGGTGTGGTCAAAGAGAAGGAT
 GTAGGATGAGCGCCACACAGTGCCTGAAACATGAGTGGTAAATCACCTGATTGCCAAAGCCTCAGGCTC
 CAACGTTTCGCTCAGATCCCAACTACTGCTGCAGAAATATATGGCTCAGCGTAAATGGAAGAAACATTT
 CATGTGGTGACTGCAGTCAACAGGCTAAGAAAATTTCCAACGTGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211117 representing NM_001110810
Red=Cloning site Green=Tags(s)

MSGVSEEDPEGLGPQGLPALGGACLVTVDKKLNVLTEKVDRLLEHFQEDVTEKLQCVCGMDHLEQGLHRL
EASQELGLAGPGSTSPAAAQAAPVELELVRAVRQEGAQHGARLEALFKMVAVDRAITLVGSTIQNSKV
DDFILQGTVPWRKGLADGPEENKEQAEVAGVKPKHVLNTGSVQAATSRALWEESQKQDTPVGTVEGLPL
IIDTSLKGADLTQAGASLRQGV EALDPGQEPPEAEAESRLPALASEDTGTTLELSVAIDRISEVLTSLRM
SQSAGEGTSSSKPDCEPGPQPLGPLTTDSIHSDEGLPRI SVRMREMTTPEELFETQGGSPIGSAEAPG
PGTVLEDQIPKGARFPPLPKRSCNNGGASAEATGPGAEP IRGPSLVTRDWRDEPVGTTDLQQGRDPGA
VSPEPGKDHAQQGPRTEAGRRVSSAAEAAIVVLDDSAAPPAPFEHRVVS IKDTLISTSYTVSQHEVLGG
GRFGQVHRCTERSTGLALAAKIIKVKNIKDREDVKNEINIMNQLSHVNL IQLYDAFESKNSFTLIMEYVD
GGELFDRITDEKYHLTELDVVLFTRQICEGVHYLHQHYILHLDLKPENILCVSQTGHQIKIIDFGLARRY
KPREKLKVNFGTPEFLAPEVVNYEFVSFPTDMWSVGVITYMLLSGLSPFLGETDAETMNFIVNCSWDFDA
DTFKGLSEEAKDFVSRLLVKEKSCRMSATQCLKHEWLNHLIAKASGSNVRLRSQLLLQKYMAQRKWKKHF
HVVTAVNRLRKFPPTCP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

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_001110810.1](#), [NP_001104280.1](#)

RefSeq Size: 2732 bp

RefSeq ORF: 2361 bp

Locus ID: 291926

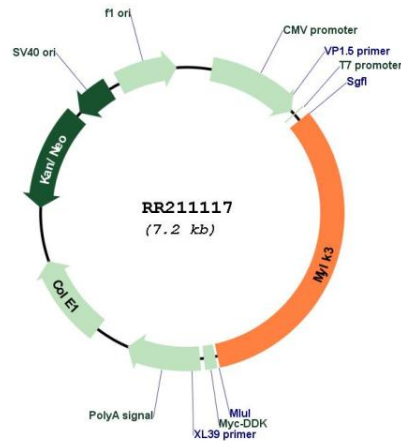
UniProt ID: [E9PT87](#)

Cytogenetics: 19q11

MW: 85.5 kDa

Gene Summary: Calmodulin-dependent kinase that phosphorylates MYL2 in vitro. Promotes sarcomere formation in cardiomyocytes. Increases cardiomyocyte contractility.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR211117