

Product datasheet for **RR200737**

Mylk2 (NM_057209) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mylk2 (NM_057209) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mylk2
Synonyms:	Klmc; Mlck
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR200737 representing NM_057209
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTACAGAAAACGGAGCAGTTGAGCTGGGAACCCAGAGTCTGTCAACAGACCACCCACCTACAGACG
 CAGCAGGTGATGGATCTCCAGCTTCAGAGAAAAGAACCCAGCCTCCAGACACAGAGAAAAGACCTGGGCC
 CACTAACACGAAGAAAGACCCTGGCGCGCCGGATCCAAAGAAAAATCCAGATCCACCCTCCCTGAAGAAA
 ACTCCCGAAGCCCTGGTCCAGAGAAAAAGGGTACTCGGCCACAGCTTCAGCCAGCAACCAGGGCCCTT
 CAGGAGAGGGTATGGAGGTGGGGCCCTGCTGAAGGCGGTACGGGGCCTCCTGCAGTCTTGCCCGACGC
 CACTGCCACAGCTGATGCCAGCATCCAGAAGCTGGACGCCACGCAAGCGCCCTCGGGCAACCAGGAATCT
 GGAGAGGCCAAGGCAGGCAAGAAGGCAGCAGAATGCCGAGAAGCAGGACGAAGGGGCTCACCCGCTTTTC
 TTCACAGCCCTAGCTGCCCGCGATCATCTCCTGTTCTGAGAAGACACTGGCCATGAAGCCCTTAAGCGA
 GACAACAGAGCTCATCTTTCAGGGGTGTCTGAAACCCCTGATCCCAAGATCCTGGTCCAGCTAAGGAC
 GAAGGAGGGACGAACACGCTGGCAGACGGGAAAGAAGAGGCAGAGGCAGGCCAGGCTGAGCAGGCTAAGG
 TGCAAGGGGACACCTCCAGAGGATCGGGTTCAGGCTGTTCCCTCAGAGAGAGCAGAGGTGGGGCAGGC
 CCTCTGTCTACGGCCAAGGAGGAAGACTGCTTCCAAATTCGGATGATTGTCCACCACCCCGAGCCCC
 TTCCACACAGGATCGTGGAGCTGAGGACCGGAAATGTCAGCAGTGAATTCAGCATGAACTCAAAGGAGG
 CATTGGGAGGTGGCAAGTTTGGAGCTGTGTGCACCTGCACGGAGAGATCCACAGGCCTCAAGCTGGCAGC
 CAAGGTCAAGAAAACAGACCCCAAGGACAAGGAAATGGTGTGCTGGAGATCGAGGTCAAGGACG
 CTGAACCACCGCAATTTGATCCAGCTGTACTCAGCCATTGAGACCTCTCACGAGATCATCTGTTTCATGG
 AGTACATTGAGGGCGCGAGCTCTTTGAGAGGATCGTGGATGAGGACTACCAACTGACGGAAGTGATA
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 CTCAAGCCAGAGAACATCCTGTGTGTGAATACCACCGGCACTTGGTGAAGATAATTGACTTCGGCTGG
 CAAGAAGGTATAACCCCAATGAGAAGCTGAAGGTGAATTTGGGACCCGGAGTTCCTGTACCAGAGGT
 GGTGAACTATGACCAGATCTCTGACAAGACGGACATGTGGAGTCTTGGGGTATCACCTACATGCTACTG
 AGTGGCTCTCTCCCTTCTGGCGACGATGACACGGAGACCCTAAACAACGCTCTGTCTGCCAAGTGGT
 ACTTTGATGAGGAGACTTTTGAAGCTGTGTCAGACGAGGCCAAAGACTTCGTTTCCAATCTTATCACGAA
 GGACCAGAGTGCCAGAATGAGTGTGAGCAGTGCCTCGCCACCCCTGGCTCAACAACCTGGCAGAAAAA
 GCCAAGCGCTGCAACCGTCTCAAGTCCAGATCCTGCTTAAGAAATACCTCATGAAGAGGCGCTGGA
 AGAAAACTTCATTGCTGTCAGCGCACGCAATCGCTTCAAGAAGATCAGTAGCTCGGGGGCACTGATGGC
 TTTGGGGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200737 representing NM_057209
 Red=Cloning site Green=Tags(s)

MATENGAVELGTQSLSTDHPPTDAAGDGPASEKEPSLPDTEKDLGPTNKKDPGAPDPKKNPDPPLK
 TPEAPGPEKKGDSAPASASNQGPSGEGDGGGPAEGGTGPPAVLPQPTATADASIQLDATQAPSGNQES
 GEAKAGKKAACREAGRRGSPAFHSPSPAIISCSKTLAMKPLSETTELIFAGVSETPDPQDPGPAKD
 EGGTNTLADGKEEAEGQAEQAKVQGDTSQRIGFQAVPSERAIEVQALCLTAKEEDCFQILDCCPPPPAP
 FPHRIVELRTGNVSSEFSMNSKEALGGGKFGAVCTCTERSTGLKLAAKVIKKQTPKDKEMVLLIEVMNQ
 LNHRNL IQLYSAIETSHEIILFMEYIEGGELFERIVDEYDYLTEVDTMVFRQICDGILFMHKMRVLHLD
 LKPENILCVNTTGHVLKIIDFGLARRYNPNEKLKVNFGTPEFLSPEVVNYDQISDKTDMWSLGVITYMLL
 SGLSPFLGDDTETLNNVLSANWYFDEETFEAVSDEAKDFVSNLITKQDSARMSAEQCLAHPLNLAELAEK
 AKRCNRRRLKSQILLKKYLMKRRWKNFIAVSARNRFFKISSSGALMALGV

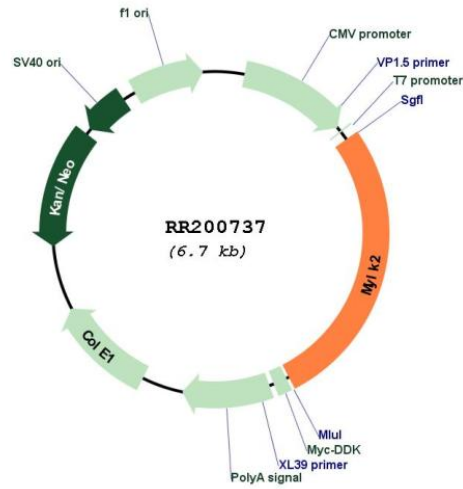
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_057209

ORF Size: 1830 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_057209.1 , NP_476557.1
RefSeq Size:	2799 bp
RefSeq ORF:	1833 bp
Locus ID:	117558
UniProt ID:	P20689
Cytogenetics:	3q41
MW:	65.9 kDa
Gene Summary:	kinase; phosphorylates a serine in the N-terminus of a myosin light chain [RGD, Feb 2006]