

Product datasheet for **MR219355**

Mylk2 (NM_001081044) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mylk2 (NM_001081044) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mylk2
Synonyms:	9830004H17Rik; BB138278
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR219355 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTACAGAAAACGGAGCAGTTGAGCTGGGAAGCCAGAGCCTGTCAACAGAACAGACACCTAAAGCCG
 CTGCAGGTGATGGACCTTCAGCTTCAGAAAAAGAACCAGCGCCACAGACAGAAAAGACCTGAGCCC
 CCCTAACGCGAAGAAAGACCCGGGCGCGCCAGATCCAAAGAACAATCCAGATCCACCCTCCCTGAAGAAA
 GATCCCGCAAAGCCCTGGCCAGAGAAAAAGGGTGACCCGGTCCAGCTTCAGCCAGCAGCCAGGGCC
 CTTCAGGAGAGGGAGATGGAGGTGGGGACCTGCTGAAGGCAGTGAGGGCCCTCCTGCAGCCTTGCCCT
 GCCACTGCTACAGCCGAGGCCAGCATCCAGAAGCTGGACCCACGCAAGCACCTCAGGCAACCAGGGA
 TCCGGAGAAGCAAGGCAGGCAAGAAGGCAGCAGAATGCCGGAAGCAGGAAGAAGGGGCTCACCTGCCT
 TTCTCCACAGCCCTAGCTGCCCGGCTATCATCTCCTGCTCTGAGAAGACTGGTGTGAAGCCCTAAG
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 GCAGGAGGGACAACGCCTGGCAGAGAAGAAGGAAGAGGCAGAGAAAGCCTCAGGCCAGGCCGGGC
 AGGCTAAGGCGCAAGGGGACACCCCCAGAGGATCGGGTTCAGGCTGTTCCCTCAGAGAGAGTGGAGT
 GGGCAGGCCCTCTGTCTCACTGCCAGGGAGGAAGACTGCTTCCAAATCCTGGATGATTGTCCACGCC
 CCAGCCCTTCCACACAGGATCGTGGAGCTGAGGACCGGAAATGTCAACAGTGAATTCAGCATGAACT
 CAAAGGAGGCACTGGGAGGTGGCAAATTTGAGCTGTGTGACCTGCACGGAGAGGCCACAGGCCCTCA
 GCTGGCAGCAAGGTATCAAGAAACAGACACCAAGGACAAGGAAATGGTGTGCTGGAGATCGAGGTC
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 TGTTTATGGAATACATCGAGGGCGGCGAGCTCTTTGAGAGGATTGTGGATGAAGACTACCATCTGACGGA
 GGTGGACACCATGGTGTTCGTCAGGCAGATCTGCGACGGATCCTCTTATGCACAAGATGAGGGTCTG
 CATCTGGACCTCAAGCCAGAGAATCCTGTGTGAATACCACTGGGCCTTGGTGAAGATAATCGACT
 TTGGCTTGGCAGGAGGTATAACCCCAATGAGAACTGAAGGTGAATTTTGGACCCCGAGTTCCTGTG
 ACCGGAGTGGTGAACACGACCAATCTCTGACAAGACAGACATGTGGACCTTGGGTGATCACCTAC
 ATGCTACTGAGTGGCCTCTCCTTCTGGGAGACGATGACACGGAGACCTTAAACAATGCTCTGTCTG
 CCAACTGGTACTTTGATGAGGAGACCTTTGAAGCTGTGTCAGATGAGCCAAAGACTTTGTCTCAAATCT
 TCTCACGAAGGACAGAGTGCCAGAATGAGTGTGAGCAGTGCCTCGCCACCCCTGGCTCAACAACCTG
 GCAGAAAAGCCAAACGCTGCAACCGTCGCTCAAGTCCAGATCCTGCTTAAGAAATACCTCATGAAGA
 GCGTGGGAAGAAAACCTCATTGCTGTGACGCGACCAATCGTCAAGAAGATCAGTAGCTCGGGGGC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

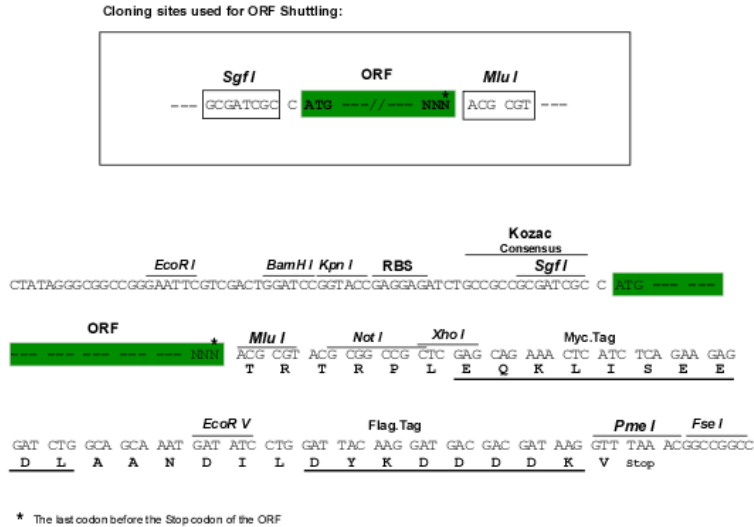
>MR219355 protein sequence
 Red=Cloning site Green=Tags(s)

MTTENGAVELGSQSLSTEQTPKAAAGDGPASASEKEPSAPATEKDLSPNAKKDPGAPDPKNNPDPPLK
 DPAKAPGPEKKGDPVPASASSQGPSGEGDGGGPAEGSEGPPAALPLPTATAEASIQKLDPTQAPSGNQ
 SGEAKAGKAAECREAGRRGSPAFLHSPSCPAIISCEKTLAVKPLSETDLVFTGVSVTPDPQDPGPVK
 AGGTNALAEKKKEEAEKASGQAGQAKAQDTPQRIGFQAVPSERVEVQALCLTAREEDCFQILDCCPPP
 PAFPFRIVELRTGNVNEFSMNSKEALGGKFGAVCTCTERATGLKLAQVVIKQTPKDKEMVLLIEIV
 MNQLNHRNLIQLYAAIETSHEIILFMEYIEGELFERIVDEDYHLTEVDTMVFVRQICDGIILFMHKMRVL
 HLDLKPENILCVNTTGHLVKIIDFGLARRYNPNEKLVNFGTPEFLSPEVVNYDQISDKTDMWSLGVITY
 MLLSGLSPFLGDDDETLLNNVLSANWYFDEETFEAVSDEAKDFVSNLLTKDQSARMSAEQCLAHPLWLN
 AEKAKRCNRRLKSQILLKKYLMKRRWKNFIAVSAANRFKKISSSGALMALGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081044

ORF Size: 1842 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:

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_001081044.1](#), [NM_001081044.2](#), [NP_001074513.2](#)

RefSeq Size: 2948 bp

RefSeq ORF: 1842 bp

Locus ID: 228785

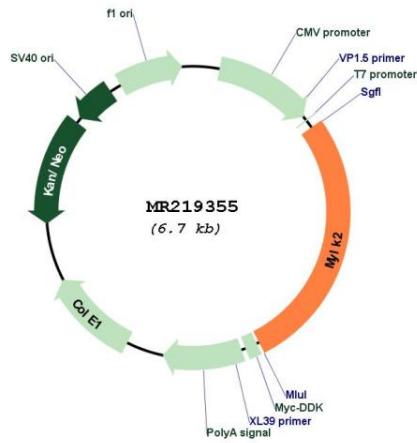
UniProt ID: [Q8VCR8](#)

Cytogenetics: 2 H1

MW: 66 kDa

Gene Summary: Implicated in the level of global muscle contraction and cardiac function. Phosphorylates a specific serine in the N-terminus of a myosin light chain (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219355