

## Product datasheet for **MC219761**

### **Mylk2 (NM\_001081044) Mouse Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >MC219761 representing NM\_001081044  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTACAGAAAACGGAGCAGTTGAGCTGGGAAGCCAGAGCCTGTCAACAGAACAGACACCTAAAGCCG  
 CTGCAGGTGATGGACCTTCAGCTTCAGAAAAAGAACCAGCGCCACAGACAGAAAGACCTGAGCCC  
 CCCTAACGCGAAGAAAGACCCGGGCGGCCAGATCCAAAGAACAATCCAGATCCACCCTCCCTGAAGAAA  
 GATCCCGCAAAGCCCTGGCCAGAGAAAAAGGGTGACCCGGTCCAGCTTCAGCCAGCAGCCAGGGCC  
 CTTCAGGAGAGGGAGATGGAGTGGGGACCTGCTGAAGGCAGTGAGGGCCCTCCTGCAGCCTTGCCCT  
 GCCACTGCTACAGCCGAGGCCAGCATCCAGAAGCTGGACCCACGCAAGCACCTCAGGCAACCAGGGA  
 TCCGGAGAAGCAAGGCAGGCAAGAAGGCAGCAGAATGCCGGAAGCAGGAAGAAGGGGCTCACCTGCCT  
 TTCTCCACAGCCCTAGTCGCCGGCTATCATCTCCTGCTCTGAGAAGACTGGTGTGAAGCCCTAAG  
 CGAGACAACAGACCTCGTCTTTACAGGGGTGTCTGTGACCCTGACCCCAAGATCCTGGTCCAGTCAA  
 GCAGGAGGGACAACGCCCTGGCAGAGAAGAAGGAAGAGGCAGAGAAAGCCTCAGGCCAGGCCGGGC  
 AGGCTAAGGTGCAAGGGGACACCCCCAGAGGATCGGGTTCAGGCTGTTCCCTCAGAGAGAGTGGAGT  
 GGGCAGGCCCTGTCTCACTGCCAGGGAGGAAGACTGCTTCCAAATCCTGGATGATTGTCCACCGCCC  
 CCAGCCCTTCCACACAGGATCGTGGAGCTGAGGACCGGAAATGTCAACAGTGAATTCAGCATGAACT  
 CAAAGGAGGCACTGGGAGGTGGCAAATTTGGAGCTGTGTGACCTGCACGGAGAGAGCCACAGGCCCTCA  
 GCTGGCAGCCAAGGTCAAGAAACAGACACCAAGGACAAGGAAATGGTGTGCTGGAGATCGAGGTC  
 ATGAACAGCTGAACATCGCAACCTGATCCAGCTGTACGACGATTGAGACCTCAGCAGATCATCC  
 GTTTCATGGAATACATCGAGGGCGGCGAGCTCTTTGAGAGGATTGTGGATGAAGACTACCATCGACGGA  
 GGTGGACACCATGGTGTTCGTCAGGCAGATCTGCGACGGGATCCTCTTCATGCACAAGATGAGGGTCTG  
 CATCTGGACCTCAAGCCAGAGAATCCTGTGTGAATACCACTGGGCACTTGGTGAAGATAATTGACT  
 TTGGCTTGGCAGGAGGTATAACCCCAATGAGAACTGAAGGTGAATTTGGACCCCGAGTTCCTGTG  
 ACCGGAGGTGGTGAACACGACCAATCTCTGACAAGACAGACATGTGGACCTTGGGGTATCACCTAC  
 ATGCTACTGAGTGGCCTCTCCCTTCTGGGAGACGATGACACGGAGACCTTAAACAATGCTCTGTCTG  
 CCAACTGGTACTTTGATGAGGAGACCTTTGAAGCTGTGTCAGATGAGGCCAAAGACTTTGTCTCAATCT  
 TCTCACGAAGGACCAGAGTGCCAGAATGAGTGTGAGCAGTGCCTCGCCACCCCTGGCTCAACAACCTG  
 GCAGAAAAGCCAAACGCTGCAACCGTCGCTCAAGTCCAGATCCTGCTTAAGAAATACCTCATGAAGA  
 GCGTGGGAAAGAAAACCTCATTGCTGTACGCGACGCAATCGTTCAGAAAGATCAGTAGCTCGGGGC  
 ACTGATGGCTCTGGGGT**CTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001081044

**Insert Size:** 1842 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).

**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\\_001081044.2](#), [NP\\_001074513.2](#)

**RefSeq Size:** 2948 bp

**RefSeq ORF:** 1842 bp

**Locus ID:** 228785

**UniProt ID:** [Q8VCR8](#)

**Cytogenetics:** 2 H1

**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]