

Product datasheet for **MG219355**

Mylk2 (NM_001081044) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mylk2 (NM_001081044) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mylk2
Synonyms:	9830004H17Rik; BB138278
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219355 representing NM_001081044
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTACAGAAAACGGAGCAGTTGAGCTGGGAAGCCAGAGCCTGTCAACAGAACAGACACCTAAAGCCG
 CTGCAGGTGATGGACCTTCAGCTTCAGAAAAAGAACCCAGCGCCCCAGCCACAGAGAAAGACCTGAGCCC
 CCCTAACGCGAAGAAAGACCCGGGCGCGCCAGATCCAAAGAACAATCCAGATCCACCCTCCCTGAAGAAA
 GATCCCGCCAAAGCCCCTGGCCAGAGAAAAAGGGTGACCCGGTCCCAGCTTCAGCCAGCAGCCAGGGCC
 CTTCAGGAGAGGGAGATGGAGGTGGGGACCTGCTGAAGGCAGTGAGGGCCCTCCTGCAGCCTTGCCCT
 GCCACTGCTACAGCCGAGGCCAGCATCCAGAAGCTGGACCCACGCAAGCACCTCAGGCAACCAGGGA
 TCCGGAGAAGCCAAGGCAGGCAAGAAGGCAGCAGAATGCCGGAAGCAGGAAGAAGGGGCTCACCTGCCT
 TTCTCCACAGCCCTAGTCGCCGGCTATCATCTCCTGCTCTGAGAAGACTGGTGTGAAGCCCCTAAG
 CGAGACAACAGACCTCGTCTTTACAGGGGTGTCTGTGACCCTGACCCCAAGATCCTGGTCCAGTCAA
 GCAGGAGGGACAACGCCCTGGCAGAGAAGAAGGAAGAGGCAGAGAAAGCCTCAGGCCAGGCCGGGC
 AGGCTAAGGCGCAAGGGGACACCCCCAGAGGATCGGGTTCAGGCTGTTCCCTCAGAGAGAGTGGAGT
 GGGCAGGCCCTCTGTCTCACTGCCAGGGAGGAAGACTGCTTCCAAATCCTGGATGATTGTCCACCGCC
 CCAGCCCCCTTCCACACAGGATCGTGGAGCTGAGGACCGGAAATGTCAACAGTGAATTCAGCATGAACT
 CAAAGGAGGCACTGGGAGGTGGCAAATTTGAGCTGTGTGACCTGCACGGAGAGAGCCACAGGCCCTCA
 GCTGGCAGCCAAGGTCAAGAAACAGACACCCAAGGACAAGGAAATGGTGTGCTGGAGATCGAGGTC
 ATGAACAGCTGAACATCGCAACCTGATCCAGCTGACGACGATTGAGACCTCAGCAGATCATCTGACGGA
 GTTTCATGGAATACATCGAGGGCGCGAGCTCTTTGAGAGGATTGTGGATGAAGACTACCATCTGACGGA
 GGTGGACACCATGGTGTTCGTCAGGCAGATCTGCGACGGATCCTCTTCATGCACAAGATGAGGGTCCTG
 CATCTGGACCTCAAGCCAGAGAATCCTGTGTGAATACCACTGGGCCTTGGTGAAGATAATCGACT
 TTGGCTTGGCAGGAGGTATAACCCCAATGAGAACTGAAGGTGAATTTTGGACCCCGAGTTCCTGTG
 ACCGGAGTGGTGAACACGACCAATCTCTGACAAGACAGACATGTGGACCTTGGGTGATCACCTAC
 ATGCTACTGAGTGGCCTCTCCCTTCTGGGAGACGATGACACGGAGACCTTAAACAATGCTCTGTCTG
 CCAACTGGTACTTTGATGAGGAGACCTTTGAAGCTGTGTCAGATGAGGCCAAAGACTTTGTCTCAAATCT
 TCTCACGAAGGACCAGAGTGCCAGAATGAGTGTGAGCAGTGCCTCGCCACCCCTGGCTCAACAACCTG
 GCAGAAAAGCCAAACGCTGCAACCGTCGCTCAAGTCCAGATCCTGCTTAAGAAATACCTCATGAAGA
 GCGTGTGAAGAAAACCTCATTGCTGTACGCGACCCAATCGTCAAGAAGATCAGTAGCTCGGGGC
 ACTGATGGCTCTGGGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219355 representing NM_001081044
 Red=Cloning site Green=Tags(s)

MTTENGAVELGSQSLSTEQTPKAAAGDGPASASEKEPSAPATEKDLSPNNAKDPGAPDPKNNPDPPLKK
 DPAKAPGPEKKGDPVPASASSQGPSGEGDGGGPAEGSEGPPAALPLPTATAEASIQKLDPTQAPSGNQG
 SGEAKAGKAAECREAGRRGSPAFLHSPSCPAIISCSEKTLAVKPLSETDLVFTGVSVTPDPQDPGPVK
 AGGTNALAEKKKEEAEKASGQAGQAKAQGDTPQRIGFQAVPSERVEVQALCLTAREEDCFQILDDCPPP
 PAFPFRIVELRTGNVNEFSMNSKEALGGKFGAVCTCTERATGLKLAAKVIKKQTPKDKEMVLEIEV
 MNQLNHRNLIQLYAAIETSHEIILFMEYIEGGELFERIVDEDEYHLTEVDTMVFVRQICDILFMHKMRVL
 HLDLKPENILCVNTTGHLYKIIDFGLARRYNPNEKLVNFGTPEFLSPEVVNYDQISDKTDMWSLVGITY
 MLLSGLSPFLGDDDETLLNNVLSANWYFDEETFEAVSDEAKDFVSNLLTKDQSARMSAEQCLAHPLWNLN
 AEKAKRCNRRLKSQILLKKYLMKRRWKNFIAVSAANRFKKISSSGALMALGV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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_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]