

## Product datasheet for **MC228692**

### Mybl1 (NM\_001290397) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mybl1 (NM_001290397) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mybl1
Synonyms:	A-myb; G1-419-6; repro9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >MC228692 representing NM\_001290397  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGAAGAGGTTCGCGCAGTGAGGACGAGGATGATGACCTTCAATATGCTGATCATGATTATGAAGTAC  
 CTCACAAAAAGGACTGAAAAACTCTGGAACAGAGTAAAATGGACAAGAGATGAGGATGACAAGTTAAA  
 GAAGTTGGTTGAACAACCGGAAGTATGATTGGACTCTAATTGCTAGTCATCTTCAAAAATCGTTCTGAT  
 TTTTCAGTGCCAACATCGATGGCAGAAGGTTTTAAATCCAGAATTGATAAAGGGTCTTGGACTAAGGAAG  
 AAGATCAGAGGGTTATTGAATTAGTTCAGAAAATATGGGCCAAAAAGGTGGTCTTTAATTGCAAAACATTT  
 AAAAGGAAGAATAGGCAAGCAGTGCAGAGAAAGATGGCACAATCACCTGAACCTGAAGTGAAGAAGTCT  
 TCCTGGACAGAAGAAGACAGGATCATATGAAGCACACAAGCGCCTGGGAAACCGTTGGGCCGAGA  
 TTGCTAAGTTACTTCTGGAAGGACTGATAATTCTATCAAAAATCATTGGAATTCTACCATGCGAAGAAA  
 AGTGGAACAGGAGGGCTATTTACAAGATGGAATAAAATCAGAGCGGTCTTCATCAAAACTCAACACAAA  
 CCTTGTGCGACTATGGACATTTGCAAACCCAGAATCAGTTTTACATTCTGTTCCAGATCCCTGGGTATC  
 AGTATGTGTCGCCTGATGGCAATTGTGTTGAACATGTTTCAGACATCTGCCTTTATTTCAGCAACCTTTGT  
 TGATGAAGATCCTGATAAAGAAAAAAAATAAAGGAGCTCGAGTTGCTTCTTATGTGAGCCGAGAATGAA  
 GTTAGAAGGAAGAGGCTTCCACCTCAACCTGGAAGCTTTTCTAGCTGGTCTGGTAGTTTCTCATGGATG  
 ATAGTATGTCTAACACACTGAATAATCTGGAGGAACACACTACTGAGTTTTATAGCATGGATGAAAAATCA  
 GACTGTTTCTGCTCAGCAGAATTCACCCACAAAGTTCTAGCTGTAGAAGCAATGCCGTGCTGCTTCT  
 CTACAGACCATCCAGAATTCGAGAAACTCTGGAACATAATTGAATCGGATCCTGTAGCATGGAGTGATG  
 TTACCAGTTTTGATCTTTCTGATGCTGCTGCTTCTCCTGTCAAGTCTACTCCAGTTAAATTAATGAGAAT  
 TCAACATAATGAAGGAGCCATGGAATGCCAGTTTAACTGTCAGTCTTGACTTTGAAGGGAAAAAAGAACAGT  
 CGTAATGGTGGAGACAGTGAAGCTATTCCTTTAACATCCCAAATGTGGTCAAGTTTAGCACTCCTCCAA  
 CCATCCTCAGAAAGAAGAAAAGAATTCGAGTGGGTGAGTCTGCAGGCAGTGAAGTGGCGATGGCTCACT  
 TAGCGAAGTTGGTAATGCAGCACTCAAACACACACCAGTGAAGCACTACCATTTTCTCCTTCTCAGTTT  
 TTTAACACATGCTCCTGGAATGAACAATTAATATAGAAAACCTTCTTTACATCAACCCCAATTTGTG  
 GGCAGAAAGTTCTCATTACAACCTCTTCTCAGAAGGAAGCAACCCCAAGATCAAAAAGAAAATGTAGG  
 ATTCAGAACTCCTACTATTAGAAGATCTATACTGGCACCACCAAGAAGTCTACTCCTTTTAAGAAAT  
 GCCTTGTGCTCAGGAAAAAATATGGACCTTAAAATTGTGTCCCAGCCACTTGCCTTTTGGAAAG  
 AAGACATTCGAGAAGTTTTAAAAGAAGAACTGGAACAGATATATTCCTCAAAGGGAAGATGAACCTGC  
 TTATAAAGCTGCAAAACAGGAGCACTCTGCATCTGTGAAGAAGGTGAGAAAATCCCTTGCCTTAGAGAGC  
 TGGGACAAAGAAGAACAGGACTCAACTGCTAACTGAAGACATTTAGACATGCAGTCAAATTTGTGAAT  
 GGGAAACAGTGGTATATGGGAAGACAGAAGACCACTTATCATGACTGAACAAGCGAGAAGATATCTGAG  
 TACTTACACAGCTACCAGCAGCACATCAAGAGCTCTAATACT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001290397

**Insert Size:** 2076 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001290397.1, NP_001277326.1</u>
<b>RefSeq Size:</b>	4804 bp
<b>RefSeq ORF:</b>	2076 bp
<b>Locus ID:</b>	17864
<b>Cytogenetics:</b>	1 2.08 cM
<b>Gene Summary:</b>	<p>Transcription factor that specifically recognizes the sequence 5'-YAAC[GT]G-3' (PubMed:7813437, PubMed:23523368). Acts as a master regulator of male meiosis by promoting expression of piRNAs: activates expression of both piRNA precursor RNAs and expression of protein-coding genes involved in piRNA metabolism, such as PIWIL1 (PubMed:21750041, PubMed:23523368). The piRNA metabolic process mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons, which is essential for the germline integrity (PubMed:23523368).</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. The encoded protein (isoform 2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from genomic sequence data because no single transcript from the same strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments and orthologous data.</p>