

## Product datasheet for **MC221288**

### **Mybl1 (NM\_008651) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mybl1 (NM_008651) 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)



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**Fully Sequenced ORF:** >MC221288 representing NM\_008651  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGAAGAGGTTCGCGCAGTGAGGACGAGGATGATGACCTTCAATATGCTGATCATGATTATGAAGTAC  
 CTAACAAAAAGGACTGAAAAACTCTGGAACAGAGTAAAATGGACAAGAGATGAGGATGACAAGTTAAA  
 GAAGTTGGTTGAACAACCGGAAGTATGATTGGACTCTAATTGCTAGTCATCTTCAAAATCGTTCTGAT  
 TTTCAGTGCCAACATCGATGGCAGAAGGTTTTAAATCCAGAATTGATAAAGGGTCTTGGACTAAGGAAG  
 AAGATCAGAGGGTTATTGAATTAGTTCAGAAAATATGGGCCAAAAAGGTGGTCTTTAATTGCAAAACATTT  
 AAAAGGAAGAATAGGCAAGCAGTGCAGAGAAAGATGGCACAATCACCTGAACCTGAAGTGAAGAAGTCT  
 TCCTGGACAGAAGAAGACAGGATCATATGAAGCACACAAGCGCCTGGGAAACCGTTGGGCCGAGA  
 TTGCTAAGTTACTTCTGGAAGGACTGATAATTCTATCAAAAATCATTGGAATTCTACCATGCGAAGAAA  
 AGTGGAACAGGAGGGCTATTTACAAGATGGAATAAAATCAGAGCGGTCTTCATCAAAACTTCAACACAAA  
 CCTTGTGCGACTATGGACCATTTGCAAACCCAGAATCAGTTTTACATTCCCTGTTCCAGATCCCTGGGTATC  
 AGTATGTGTCGCCTGATGGCAATTGTGTTGAACATGTTTCAGACATCTGCCTTTATTTCAGCAACCCCTTGT  
 TGATGAAGATCCTGATAAAGAAAAAATAAAGGAGCTCGAGTTGCTTCTTATGTCAGCCGAGAATGAA  
 GTTAGAAGGAAGAGGCTTCCACCTCAACCTGGAAGCTTTTCTAGCTGGTCTGGTAGTTTCTCATGGATG  
 ATAGTATGTCTAACACACTGAATAATCTGGAGGAACACACTACTGAGTTTTATAGCATGGATGAAAAATCA  
 GACTGTTTCTGCTCAGCAGAATTCACCCACAAAGTTCCCTAGCTGTAGAAGCAATGCCGTGCTGTCTTCT  
 CTACAGACCATCCAGAATTCGCAGAAACTCTGGAATAATTGAATCGGATCCTGTAGCATGGAGTGATG  
 TTACCAGTTTTGATCTTTCTGATGCTGCTTCTCCTGTCAAGTCTACTCCAGTTAAATTAATGGAAT  
 TCAACATAATGAAGGAGCCATGGAATGCCAGTTAACGTCAGTCTTGACTTGAAGGGAAAAAGAAGCAGT  
 CGTAATGGTGGAGACAGTGAAGCTATTCCTTTAACATCCCAAAATGTGGTCAAGTTTAGCACTCCTCCAA  
 CCATCCTCAGAAAGAAGAAAAGAAATTCGAGTGGGTGAGTCTGCAGGCAGTGAAGTGGCGATGGCTCACT  
 TAGCGAAGTTGGTAATGCAGCACTCAAACACACACCAGTGAAGCACTACCATTTTCTCCTTCTCAGTTT  
 TTTAACACATGCTCCTGGAATGAACAATTAATATAGAAAACCTTCTTTACATCAACCCCAATTTGTG  
 GGCAGAAAGTTCTCATTACAACCTCTTTCAGAAAGCAACCCCAAGATCAAAAAGAAAATGTAGG  
 ATTCAGAACTCCTACTATTAGAAGATCTATACTGGGCACCACCAAGAAGTCTACTCCTTTTAAGAAT  
 GCCTTGTGCTCAGGAAAAAATATGGACCTTTAAAATTGTGTCCCAGCCACTTGCCTTTTTGGAAG  
 AAGACATTCGAGAAGTTTTAAAAGAAGAACTGGAACAGATATATTCCTCAAAGGGAAGATGAACCTGC  
 TTATAAAAGCTGCAAAACAGGAGCACTCTGCATCTGTGAAGAAGGTCAGAAAATCCCTTGCCTTAGAGAGC  
 TGGGACAAAGAAGAACAGGACTCAACTGCTAACTGAAGACATTTTCAGACATGCAGTCAGAAAATATTC  
 TTACAACATCTTTATTAATGATACCATTATTGGAATACATGACAATAGGTGCAACTTGACTCCTGAAAA  
 ACAAGATATAAATTCAGCCAACAAAACATATACTTAATAAAAAGAGACCAACCCCTAACCCCTGTAAA  
 GCTGTCAAATTGGAAAAGAGTCTTCAGTCAAATTGTGAATGGGAAACAGTGGTATATGGGAAGACAGAAG  
 ACCAACTTATCATGACTGAACAAGCGAGAAGATATCTGAGTACTTACACAGCTACCAGCAGCACATCAAG  
 AGCTCTAATACT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_008651  
**Insert Size:** 2256 bp

<b>OTI Disclaimer:</b>	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).
<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>	<a href="#">NM_008651.3</a> , <a href="#">NP_032677.2</a>
<b>RefSeq Size:</b>	4984 bp
<b>RefSeq ORF:</b>	2256 bp
<b>Locus ID:</b>	17864
<b>UniProt ID:</b>	<a href="#">P51960</a>
<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). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer 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>