

## Product datasheet for **MR230903**

### **Mybl1 (NM\_001290397) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mybl1 (NM_001290397) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR230903 representing NM\_001290397  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGAAGAGGTCGCGCAGTGAGGACGAGGATGATGACCTTCAATATGCTGATCATGATTATGAAGTAC  
 CTCACAAAAAGGACTGAAAAACTCTGGAACAGAGTAAAATGGACAAGAGATGAGGATGACAAGTTAAA  
 GAAGTTGGTTGAACAACCGGAAGTATGATTGGACTCTAATTGCTAGTCATCTTCAAAATCGTTCTGAT  
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 GTTAGAAGGAAGAGGCTTCCACCTCAACCTGGAAGCTTTTCTAGCTGGTCTGGTAGTTTCTCATGGATG  
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 TCAACATAATGAAGGAGCCATGGAATGCCAGTTTAACTCAGTCTTGTACTTGAAGGGAAAAAGAACAGT  
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 TACTTACACAGCTACCAGCAGCACATCAAGAGCTCTAATACTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR230903 representing NM\_001290397  
Red=Cloning site Green=Tags(s)

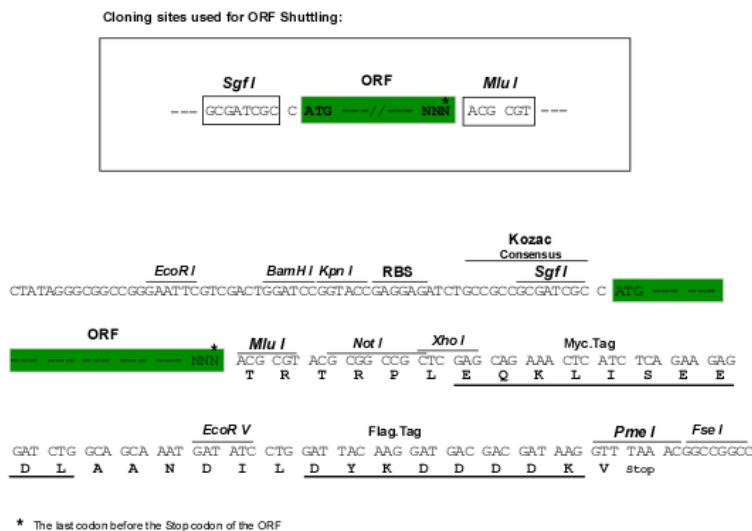
MAKRSRSEDEDDDLQYADHDYVPPQKGLKKLWNRVKWTRDEDDKLLKLV EQHGTDDWTLIASHLQNRSD  
 FQCQHRWQKVLNP ELIKGPWTK EEDQRVIELVQKYGPKRWSLIAKHLKGRIGKQCRERWHNHLNPEVKKS  
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 PCATMDHLQTQNFYIPVQIPGYQYVSPDGNCEVHVQTSAFIQQPFVDEDPDKEKKIKELELLLMSAENE  
 VRRKRLPPQPGSFSSWSGSFLMDDSMSNTLNNLEEHTEFFYSMDENQTVSAQQNSPTKFLAVEANAVLSS  
 LQTIPEFAETLELIESDPVAWSDVTSFDLSDAAA SPVKSTPVKLMRIQHNEGAMECQFNVS LVLEGGKNS  
 RNGGDSEAIPLTSPNVVKFSTPPTILRKKRIRVQSAGSELGDGSLSEVNAALKHTPVKTLPFSPSQF  
 FNTCPGNEQLNIENPSFTSTPICGQKVLITTP LQKEATPKDQKENVGFRTP TIRRSILGTTPTPTPFKN  
 ALAAQEKKYGPLKIVSQPLAFLEEDIREVLKEETGTDIFLKEEDEPAYKSCQKQHSASVKKVRKSLALES  
 WDKEEPGTQLLTEDISDMQSNCEWETVVY GKTEDQLIMTEQARRYLSTYTATSSTRALIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001290397

**ORF Size:** 2073 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\\_001290397.1](#), [NP\\_001277326.1](#)

**RefSeq Size:** 4804 bp

**RefSeq ORF:** 2076 bp

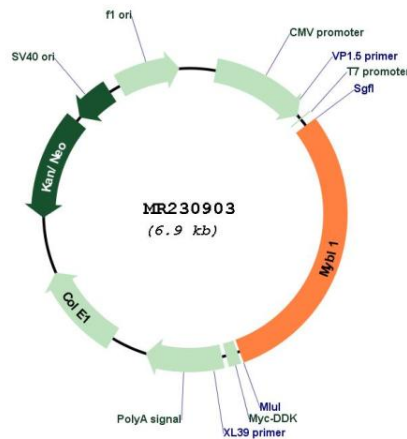
**Locus ID:** 17864

**Cytogenetics:** 1 2.08 cM

**MW:** 79.2 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR230903