

## Product datasheet for **SC337212**

### v Myb (MYBL1) (NM\_001294282) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	v Myb (MYBL1) (NM_001294282) Human Untagged Clone
Tag:	Tag Free
Symbol:	v Myb
Synonyms:	A-MYB; AMYB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001294282, the custom clone sequence may differ by one or more nucleotides

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ATGGCGAAGAGGTCGCGCAGTGAGGATGAGGATGATGACCTTCAGTATGCCGATCATGATTATGAAGTAC
CACAAACAAAAAGGACTGAAGAACTCTGGAACAGAGTAAAATGGACAAGGGACGAGGATGATAAATTA
GAAGTTGGTTGAACAACATGGAAGTATGATTGGACTCTAATTGCTAGTCATCTTCAAAATCGCTCTGAT
TTTCAGTGCCAGCATCGATGGCAGAAAGTTTTAAATCCTGAATTGATAAAGGGTCCTTGGACTAAAGAA
AAGATCAGAGGGTTATTGAATTAGTTCAGAAATATGGGCCAAAAAGATGGTCTTTAATTGCAAAACATTT
AAAAGGAAGAATAGGCAAGCAGTGTAGAGAAAGATGGCATAATCATCTGAATCCTGAGGTAAGAAATCT
TCCTGGACAGAAGAGGAGGACAGGATCATCTATGAAGCACATAAGCGGTTGGGAAATCGTTGGGCAGAAA
TTGCCAACTACTTCCAGGAAGGACTGATAATTCTATCAAAAATCATTGGAATTCTACTATGCGAAGAAA
AGTGGAACAGGAGGGCTATTTACAAGATGGAATAAAATCAGAACGATCTTCATCTAACTTCAACACAAA
CCTTGTGCAGCTATGGATCATATGCAAACCCAGAATCAGTTTTACATACCTGTTCCAGATCCCTGGGTATC
AGTATGTGTACCTGAAGCAATTGTATAGAACATGTTTCAGCCTACTTCTGCCTTTATTCAGCAACCTT
CATTGATGAAGATCCTGATAAGGAAAAGAAAATAAGGAACTTGAGATGCTTCTTATGTCAGCTGAGAAT
GAAGTTAGAAGAAAGCGAATTCCATCACCTGGAAGTTTTCTAGCTGGTCTGGTAGTTTCTCATGGATG
ATAACATGTCTAACTCTAAATAGCCTTGACGAGCACACTAGTGAGTTTTACAGTATGGATGAAAATCA
GCCTGTGTCTGCTCAGCAGAATTCACCCACAAAGTTCTGCGCCGTGGAGGCAAACGCTGTGTTATCCTCT
TTGACAGCCATCCAGAAATTTGCAGAGACTCTAGAACTTATTGAATCTGATCCTGTAGCATGGAGTGACG
TTACCAGTTTTGATATTTCTGATGCTGCTGCTTCTCCTATCAAATCCACCCAGTTAAATTAATGAGAAT
TCAGCACAAATGAAGGAGCCATGGAATGCCAATTTAACGTCAGTCTGTACTTGAAGGGAAAAAACAAC
TGTAATGGTGGCAACAGTGAAGCTGTTCTTTAACATCCCCAAATATAGCCAAGTTTAGCACTCCACCAG
CCATCCTCAGAAAAGAAGAGAAAAATGCGAGTGGGTCATTCCCCAGCGAGCAACTTAGGGATGGCTCATT
GAACGATGGTGGTAATATGGCGCTAAAACATACCCACTGAAAACACTACCATTTTCTCCTTACAGTTT
TTCAACACATGCTCCTGGTAATGAACAACCTAATATAGAAAATCCTTCATTTACATCAACCCCTATTTGTG
GGCAGAAAAGCTCTCATTACAACCTCTTCTCATAAGGAAACAACCTCCCAAAGATCAAAAGGAAAATGTAGG
GTTTAGAACACCTACTATTAGAAGATCTATACTGGGTACCACACCAAGAAGCTCTACTCCTTTTAAGAA
GCGCTTGTGCTCAGGAGAAAAAATATGGACCTTTAAAATTGTGTCCCAGCCACTTGCTTTCTTGGAA
AAGATATTCGGGAAGTTTTAAAAGAAGAACTGGAACAGACCTATTCTCAAAGAGGAAGATGAACCTGC
TTACAAAAGCTGCAACAAGAGAATACCGCTTCTGGGAAGAAAGTCAGAAAATCACTAGTCTTAGATAAT
TGGGAAAAGAAGAAATCAGGCACTCAACTGTTGACTGAAGACATTTAGACATGCAGTCAAATTTGGAAT
GGGAAACAGTGGTTTATGGGAAGACAGAAGACCACTTATTATGACTGAACAAGCAAGAAGATATCTGAG
TACTTACACAGCTACCAGTAGTACTTCAAGAGCTCTCATACTGTA
    
```

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001294282

**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\\_001294282.1](#), [NP\\_001281211.1](#)

**RefSeq Size:** 5009 bp

**RefSeq ORF:** 2076 bp

**Locus ID:** 4603

**Cytogenetics:** 8q13.1

**Gene Summary:** Transcription factor that specifically recognizes the sequence 5'-YAAC[GT]G-3' (PubMed:8058310, PubMed:7987850). 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 (By similarity). 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) lacks an alternate in-frame exon and uses an alternate in-frame splice site, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.