

Product datasheet for **SC315830**

v Myb (MYBL1) (NM_001080416) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	v Myb (MYBL1) (NM_001080416) 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: >SC315830 representing NM_001080416.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGCGAAGAGGTCCGCGCAGTGAGGATGAGGATGATGACCTTCAGTATGCCGATCATGATTATGAAGTA
CCACAACAAAAAGGACTGAAGAACTCTGGAACAGAGTAAAATGGACAAGGGACGAGGATGATAAATTA
AAGAAGTTGGTTGAACAACATGGAACCTGATGATTGGACTCTAATTGCTAGTCATCTTCAAAATCGCTCT
GATTTTCAGTGCCAGCATCGATGCCAGAAAGTTTTAAATCCTGAATTGATAAAGGGTCCTTGACTAAA
GAAGAAGATCAGAGGGTTATTGAATTAGTTCAGAAATATGGGCCAAAAAGATGGTCTTTAATTGCAAAA
CATTTAAAGGAAGAATAGGCAAGCAGTGTAGAGAAAGATGGCATAATCATCTGAATCCTGAGGTAAG
AAATCTTCTGGACAGAAGAGGAGGACAGGATCATCTATGAAGCACATAAGCGGTTGGGAAATCGTTGG
GCAGAAATGCCAACTACTCCAGGAAGGACTGATAATTCTATCAAAAATCATTGGAATCTACTATG
CGAAGAAAAGTGAACAGGAGGGCTATTTACAAGATGGAATAAAATCAGAACGATCTTCATCTAACTT
CAACACAAACCTTGTGCAGCTATGGATCATATGCAAACCCAGAATCAGTTTTACATACCTGTTCCAGATC
CCTGGGTATCAGTATGTGCACCTGAAGCAATTGTATAGAACATGTTACGCTACTTCTGCCTTTATT
CAGCAACCTTCATTGATGAAGATCCTGATAAGGAAAAGAAAATAAAGGAACTTGAGATGCTTCTTATG
TCAGCTGAGAATGAAGTTAGAAGAAAGCGAATTCATCACAGCCTGGAAGTTTTCTAGCTGGTCTGGT
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CCTGTAGCATGGAGTGACGTTACCAGTTTTGATATTTCTGATGCTGCTTCTCCTATCAATCCACC
CCAGTTAAATTAATGAGAATTCAGCACAATGAAGGAGCCATGGAATGCCAATTTAACGTCAGTCTTGTA
CTTGAAGGGAAAAAAACACTTGTAAATGGTGGCAACAGTGAAGCTGTTCCCTTAAACATCCCCAAATATA
GCCAAGTTTAGCACTCCACCAGCCATCCTCAGAAAAGAGAAAAATGCGAGTGGGTCATCCCCAGGC
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CTACCATTTCTCCTTACAGTTTTTCAACACATGTCCTGGTAATGAACAACCTAATATAGAAAATCCT
TCATTTACATCAACCCCTATTTGTGGGCAGAAAGCTCTCATTACAACCTCTTTCATAAGGAAACAAC
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CATGACAATAGGTGCAACTTGATTCCTGAAAAACAAGATATAAATTAACCAACAAAACATATACACTT
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GAATGGGAAACAGTGGTTTATGGGAAGACAGAAGCAACTTATTATGACTGAACAAGCAAGAAGATAT
CTGAGTACTTACACAGCTACCAGTAGTACTTCAAGACTCTCATACTGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI
 ACCN: NM_001080416
 Insert Size: 2259 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001080416.3](#)

RefSeq Size: 5192 bp

RefSeq ORF: 2259 bp

Locus ID: 4603

UniProt ID: [P10243](#)

Cytogenetics: 8q13.1

MW: 85.9 kDa

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 (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.