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Product datasheet for RC227532

v Myb (MYBL1) (NM_001144755) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	v Myb (MYBL1) (NM_001144755) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	v Myb
Synonyms:	A-MYB; AMYB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC227532 representing NM_001144755.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGAAGAGGTCGCGCAGTGAGGATGAGGATGATGACCTTCAGTATGCCGATCATGATTATGAAGTA
CCACAACAAAAAGGACTGAAGAAACTCTGGAACAGAGTAAAATGGACAAGGGACGAGGATGATAAATTA
AAGAAGTTGGTTGAACAACATGGAACTGATGATTGGACTCTAATTGCTAGTCATCTTCAAAATCGCTCT
GATTTTCAGTGCCAGCATCGATGGCAGAAAGTTTTAAATCCTGAATTGATAAAGGGTCCTTGGACTAAA
GAAGAAGATCAGAGGGTTATTGAATTAGTTCAGAAATATGGGCCAAAAAGATGGTCTTTAATTGCAAAA
CATTTAAAAGGAAGAATAGGCAAGCAGTGTAGAGAAAGATGGCATAATCATCTGAATCCTGAGGTAAAG
AAATCTTCCTGGACAGAAGAGGAGGACAGGATCATCTATGAAGCACATAAGCGGTTGGGAAATCGTTGG
GCAGAAATTGCCAAACTACTTCCAGGAAGGACTGATAATTCTATCAAAAATCATTGGAATTCTACTATG
CGAAGAAAAGTGGAACAGGAGGGCTATTTACAAGATGGAATAAAATCAGAACGATCTTCATCTAAACTT
CAACACAAACCTTGTGCAGCTATGGATCATATGCAAACCCAGAATCAGTTTTACATACCTGTTCAGATC
CCTGGGTATCAGTATGTGTCACCTGAAGGCAATTGTATAGAACATGTTCAGCCTACTTCTGCCTTTATT
CAGCAACCCTTCATTGATGAAGATCCTGATAAGGAAAAGAAAATAAAGGAACTTGAGATGCTTCTTATG
TCAGCTGAGAATGAAGTTAGAAGAAAGCGAATTCCATCACCTGGAAGTTTTTCTAGCTGGTCTGGTAGT
TTCCTCATGGATGATAACATGTCTAATACTCTAAATAGCCTTGACGAGCACACTAGTGAGTTTTACAGT
ATGGATGAAAATCAGCCTGTGTCTGCTCAGCAGAATTCACCCACAAAGTTCCTGGCCGTGGAGGCAAAC
GCTGTGTTATCCTCTTTGCAGACCATCCCAGAATTTGCAGAGACTCTAGAACTTATTGAATCTGATCCT
GTAGCATGGAGTGACGTTACCAGTTTTGATATTTCTGATGCTGCTGCTTCTCCTATCAAATCCACCCCA
GTTAAATTAATGAGAATTCAGCACAATGAAGGAGCCATGGAATGCCAATTTAACGTCAGTCTTGTACTT
GAAGGGAAAAAAAACACTTGTAATGGTGGCAACAGTGAAGCTGTTCCTTTAACATCCCCAAATATAGCC
AAGTTTAGCACTCCACCAGCCATCCTCAGAAAGAAGAGAAAAATGCGAGTGGGTCATTCCCCAGGCAGC
GAACTTAGGGATGGCTCATTGAACGATGGTGGTAATATGGCGCTAAAACATACACCACTGAAAACACTA
CCATTTTCTCCTTCACAGTTTTTCAACACATGTCCTGGTAATGAACAACTTAATATAGAAAATCCTTCA
TTTACATCAACCCCTATTTGTGGGCAGAAAGCTCTCATTACAACTCCTCTTCATAAGGAAACAACTCCC
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AGAACTCCTACTCCTTTTAAGAATGCGCTTGCTGCTCAGGAGAAAAAATATGGACCTCTTAAAATTGTG
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TTCCTCAAAGAGGAAGATGAACCTGCTTACAAAAGCTGCAAACAAGAGAATACCGCTTCTGGGAAGAAA
GTCAGAAAATCACTAGTCTTAGATAATTGGGAAAAAGAAGAATCAGGCACTCAACTGTTGACTGAAGAC
ATTTCAGACATGCAGTCAAATTGTGAATGGGAAACAGTGGTTTATGGGAAGACAGAAGACCAACTTATT
ATGACTGAACAAGCAAGAAGATATCTGAGTACTTACACAGCTACCAGTAGTACTTCAAGAGCTCTCATA
CTG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

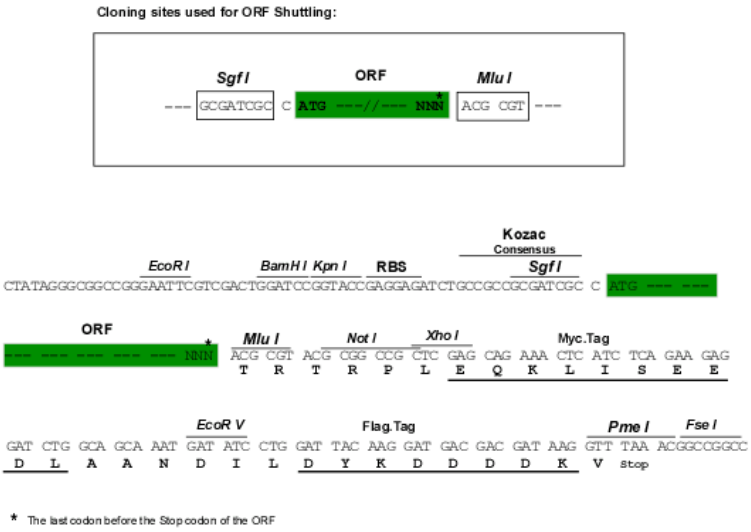
Protein Sequence:

>Peptide sequence encoded by RC227532
Blue=ORF Red=Cloning site Green=Tag(s)

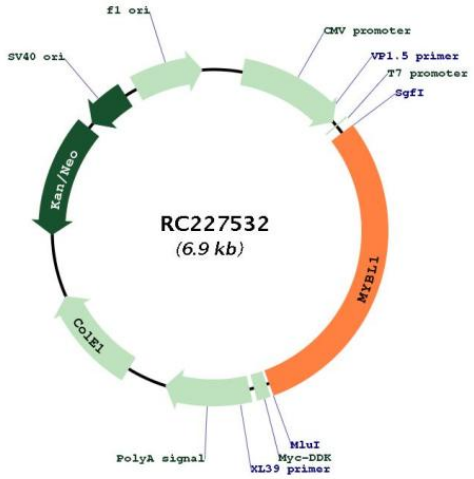
MAKRSRSEDEDDDLQYADHDYEVPQQKGLKKLWNRVKWTRDEDDKLKKLVEQHGTDDWTLIASHLQNRS
DFQCQHRWQKVLNPELIKGPWTKEEDQRVIELVQKYGPKRWSLIAKHLKGRIGKQCRERWHNHLNPEVK
KSSWTEEEDRIIYEAHKRLGNRWAEIAKLLPGRTDNSIKNHWNSTMRRKVEQEGYLQDGIKSERSSSKL
QHKPCAAMDHMQTQNQFYIPVQIPGYQYVSPEGNCIEHVQPTSAFIQQPFIDEDPDKEKKIKELEMLLM
SAENEVRRKRIPSPGSFSSWSGSFLMDDNMSNTLNSLDEHTSEFYSMDENQPVSAQQNSPTKFLAVEAN
AVLSSLQTIPEFAETLELIESDPVAWSDVTSFDISDAAASPIKSTPVKLMRIQHNEGAMECQFNVSLVL
EGKKNTCNGGNSEAVPLTSPNIAKFSTPPAILRKKRKMRVGHSPGSELRDGSLNDGGNMALKHTPLKTL
PFSPSQFFNTCPGNEQLNIENPSFTSTPICGQKALITTPLHKETTPKDQKENVGFRTPTIRRSILGTTP
RTPTPFKNALAAQEKKYGPLKIVSQPLAFLEEDIREVLKEETGTDLFLKEEDEPAYKSCKQENTASGKK
VRKSLVLDNWEKEESGTQLLTEDISDMQSNCEWETVVYGKTEDQLIMTEQARRYLSTYTATSSTSRALI
L
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001144755
ORF Size:	2073 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 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 Size:	5012 bp
RefSeq ORF:	2079 bp
Locus ID:	4603
UniProt ID:	P10243
Cytogenetics:	8q13.1
MW:	78.8 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]