

Product datasheet for **RG213990**

v Myb (MYBL1) (NM_001080416) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	v Myb
Synonyms:	A-MYB; AMYB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG213990 representing NM_001080416
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGAAGAGGTCGCGCAGTGAGGATGAGGATGATGACCTTCAGTATGCCGATCATGATTATGAAGTAC
 CACAACAAAAAGGACTGAAGAACTCTGGAACAGAGTAAATGGACAAGGGACGAGGATGATAAATTAAA
 GAAGTTGGTTGAACAACATGGAAGTATGATTGGACTCTAATTGCTAGTCATCTTCAAAATCGCTCTGAT
 TTTAGTGCCAGCATCGATGGCAGAAAGTTTTAAATCCTGAATTGATAAAGGGTCCTTGGACTAAAGAAG
 AAGATCAGAGGGTTATTGAATTAGTTCAGAAATATGGGCCAAAAAGATGGTCTTTAATTGCAAAACATTT
 AAAAGGAAGAATAGGCAAGCAGTGTAGAGAAAGATGGCATAATCATCTGAATCCTGAGGTAAAGAAATCT
 TCCTGGACAGAAGAGGAGGACAGGATCATCTATGAAGCACATAAGCGGTTGGGAAATCGTTGGGCAGAAA
 TTGCCAACTACTTCCAGGAAGGACTGATAATTCTATCAAAATCATTGGAATTCTACTATGCGAAGAAA
 AGTGGAACAGGAGGGCTATTTACAAGATGGAATAAAATCAGAACGATCTTCATCTAACTTCAACACAAA
 CCTTGTGCAGCTATGGATCATATGCAAAACCAGAAATCAGTTTTACATACCTGTTGAGATCCCTGGGTATC
 AGTATGTGTACCTGAAGGCAATTGTATAGAACATGTTGAGCCTACTTCTGCTCTTTATTGAGCAACCTT
 CATTGATGAAGATCCTGATAAGGAAAAAGAAATAAGGAACCTTGAGATGCTTCTTATGTGAGCTGAGAAT
 GAAGTTAGAAGAAAGCGAATTCATCAGCCTGGAAGTTTTCTAGCTGGTCTGGTAGTTTCTCTCATGG
 ATGATAACATGTCTAATACTCTAAATAGCCTTGACGAGCACACTAGTGAGTTTTACAGTATGGATGAAAA
 TCAGCCTGTGTCTGCTCAGCAGAAATCACCCACAAAGTTCTGGCCGTGGAGGCAACGCTGTGTTATCC
 TCTTTGAGACCATCCAGAAATTTGAGAGACTCTAGAATTATTGAATCTGATCCTGTAGCATGGAGTG
 ACGTTACAGTTTTGATATTTCTGATGCTGCTGCTTCTCTATCAAATCCACCCAGTTAAATTAATGAG
 AATTCAGCACAAATGAAGGAGCCATGGAATGCCAATTTAACGTCAGTCTTGACTTGAAGGGAAAAAAAC
 ACTTGTAATGGTGGCAACAGTGAAGCTGTTCTTTAACATCCCAAAATATAGCCAAGTTTAGCACTCCAC
 CAGCCATCCTCAGAAAGAAGAGAAAAATGCGAGTGGGTCAATCCCCAGGCAGCAACTTAGGGATGGCTC
 ATTGAACGATGGTGGTAATATGGCGCTAAACATACACCACTGAAAACACTACCATTTTCTCCTTCACAG
 TTTTCAACACATGCTCTGGTAATGAACAACCTTAATATAGAAAACTCTTCATTACATCAACCCCTATTT
 GTGGGCAGAAAGCTCTCATTACAACCTCTTCTCATAAGGAAACAACCTCCAAAGATCAAAAGGAAAAATGT
 AGGGTTTAGAACCTACTATTAGAAGATCTATACTGGGTACCACACCAAGAACTCTACTCCTTTTAAG
 AATGCGCTTGCTGCTCAGGAGAAAAATATGGACCTCTTAAATTTGTGTCCAGCCACTTGCTTTCTTGG
 AAGAAGATATTCGGGAAGTTTTAAAGAAAGAACTGGAACAGACCTATTCTCAAAGAGGAAGATGAACC
 TGCTTACAAAAGCTGCAACAAGAGAATACCGCTTCTGGGAAGAAAGTCAGAAAATCACTAGTCTTAGAT
 AATTGGGAAAAAGAAGATCAGGCACTCACTGTTGACTGAAGACATTCAGACATGCAGTCAGAAAATA
 GATTTACTACATCCTTATTAATGATACCATTTATGGAAATACATGACAATAGGTGCAACTTGATTCCTGA
 AAAACAAGATATAAATCAACCAACAAACATATACACTTACTAAAAAGAAACCAACCTAACACTTCC
 AAAGTTGTCAAATTTGAAAAGAAATCTTCAGTCAAATTTGTAATGGGAAACAGTGGTTTATGGGAAGACAG
 AAGACCACTTATTATGACTGAACAAGCAAGAAGATATCTGAGTACTTACACAGCTACCACTAGTACTTC
 AAGAGCTCTCACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

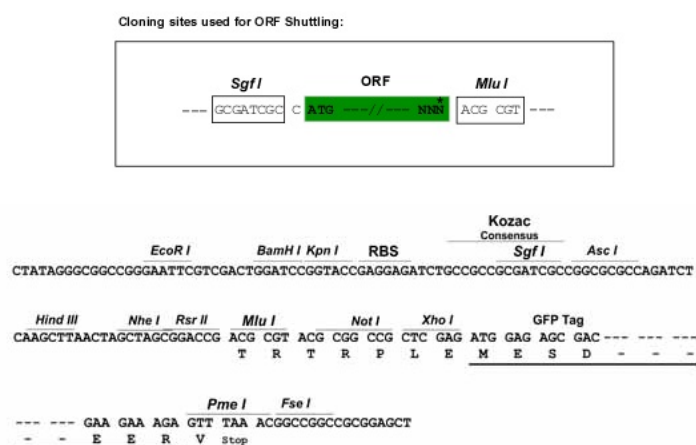
Protein Sequence: >RG213990 representing NM_001080416
Red=Cloning site Green=Tags(s)

MAKRSRSEDEDDDLQYADHDYEVPPQKGLKKLWNRVKWTRDEDDKLLKLVQHGTDWTLIASHLQNRSD
FQCQHRWQKVLNPelikGPWTKEEDQRVIELVQYQYGPKRWSLIAKHLKGRIGKQCRERWHNHLNPEVKKS
SWTEEDRIIEAHKRLGNRWAEIAKLLPGRDINSIKHNHWNSTMRKKEVEQGYLQDGIKSERSSSKLQHK
PCAAMDHMQTNQFYIPVQIPGYQYVSPENGNCIEHVQPTSAFIQQFFIDEDPDKEKKIKELEMLLSAEN
EVRKRKRIPSPQGSFSSWSGSLMDDNMSNTLNSLDEHTSEFYSMDENQPVSAQONSPTKFLAVEANAVLS
SLQTIPEFAETLELIESDPVAWSDVTSFDISDAASPIKSTPVKLMRIQHNEGAMECQFNVSVLVLEGKN
TCNGGNSEAVPLTSPNIAKFSTPPAILRKKRKMVRVGHSPGSELRDGSLNDGGNMALKHTPLKTLFPSPSQ
FFNTCPGNEQLNIENPSFTSTPICGQKALITPLHKETTPKDQKENVGFRPTPTIRRSILGTTPTPTPFK
NAAAEQKGYPLKIVDSQPLAFLEEDIRELVKEETGDTDLFLEEDEPAYSKCKQNTASGKKVRKSLVLD
NLEAKESQTLTLTEDISQKSNRFTTSLMIPPLEIHDNRCLNIEPKQDINSTNKTYTLTKKKPNPNTS
KVKLEKNLONSCWEVTVYVGKTDQOLIMTFOARRYLSTYTATSSTSRALIL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001080416

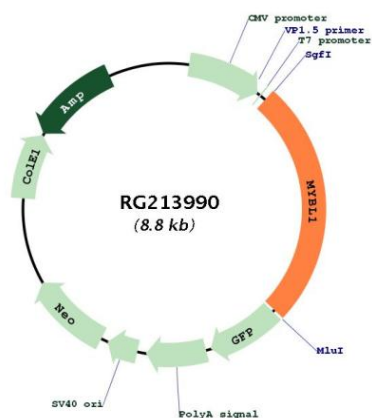
ORF Size: 2256 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001080416.4
RefSeq Size:	4879 bp
RefSeq ORF:	2259 bp
Locus ID:	4603
UniProt ID:	P10243
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]

Product images:



Circular map for RG213990