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Product datasheet for RC213990

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

Product data:

Product Type:	Expression Plasmids
Product Name:	v Myb (MYBL1) (NM_001080416) 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:

>RC213990 representing NM_001080416
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGAAGAGGTCGCGCAGTGAGGATGAGGATGATGACCTTCAGTATGCCGATCATGATTATGAAGTAC
CACAACAAAAAGGACTGAAGAAACTCTGGAACAGAGTAAAATGGACAAGGGACGAGGATGATAAATTAAA
GAAGTTGGTTGAACAACATGGAACTGATGATTGGACTCTAATTGCTAGTCATCTTCAAAATCGCTCTGAT
TTTCAGTGCCAGCATCGATGGCAGAAAGTTTTAAATCCTGAATTGATAAAGGGTCCTTGGACTAAAGAAG
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TCCTGGACAGAAGAGGAGGACAGGATCATCTATGAAGCACATAAGCGGTTGGGAAATCGTTGGGCAGAAA
TTGCCAAACTACTTCCAGGAAGGACTGATAATTCTATCAAAAATCATTGGAATTCTACTATGCGAAGAAA
AGTGGAACAGGAGGGCTATTTACAAGATGGAATAAAATCAGAACGATCTTCATCTAAACTTCAACACAAA
CCTTGTGCAGCTATGGATCATATGCAAACCCAGAATCAGTTTTACATACCTGTTCAGATCCCTGGGTATC
AGTATGTGTCACCTGAAGGCAATTGTATAGAACATGTTCAGCCTACTTCTGCCTTTATTCAGCAACCCTT
CATTGATGAAGATCCTGATAAGGAAAAGAAAATAAAGGAACTTGAGATGCTTCTTATGTCAGCTGAGAAT
GAAGTTAGAAGAAAGCGAATTCCATCACAGCCTGGAAGTTTTTCTAGCTGGTCTGGTAGTTTCCTCATGG
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TCAGCCTGTGTCTGCTCAGCAGAATTCACCCACAAAGTTCCTGGCCGTGGAGGCAAACGCTGTGTTATCC
TCTTTGCAGACCATCCCAGAATTTGCAGAGACTCTAGAACTTATTGAATCTGATCCTGTAGCATGGAGTG
ACGTTACCAGTTTTGATATTTCTGATGCTGCTGCTTCTCCTATCAAATCCACCCCAGTTAAATTAATGAG
AATTCAGCACAATGAAGGAGCCATGGAATGCCAATTTAACGTCAGTCTTGTACTTGAAGGGAAAAAAAAC
ACTTGTAATGGTGGCAACAGTGAAGCTGTTCCTTTAACATCCCCAAATATAGCCAAGTTTAGCACTCCAC
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AATGCGCTTGCTGCTCAGGAGAAAAAATATGGACCTCTTAAAATTGTGTCCCAGCCACTTGCTTTCTTGG
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AAGACCAACTTATTATGACTGAACAAGCAAGAAGATATCTGAGTACTTACACAGCTACCAGTAGTACTTC
AAGAGCTCTCATACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213990 representing NM_001080416
Red=Cloning site Green=Tags(s)

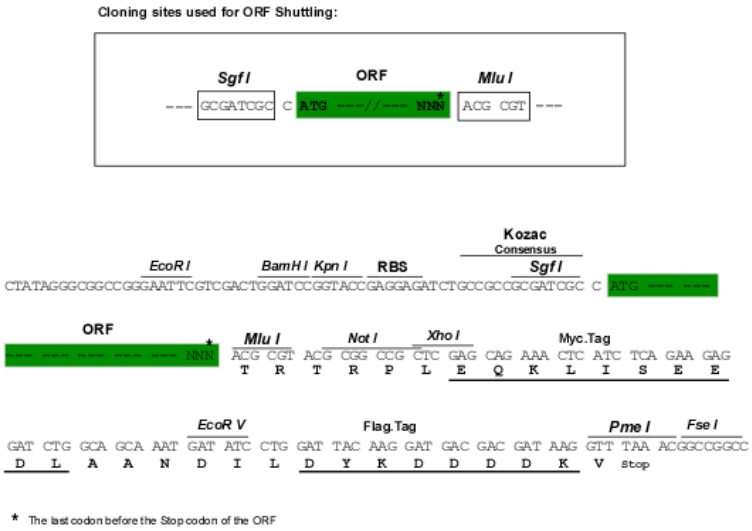
MAKRSRSEDEDDDLQYADHDYEVPQQKGLKKLWNRVKWTRDEDDKLKKLVEQHGTDDWTLIASHLQNRSD
FQCQHRWQKVLNPELIKGPWTKEEDQRVIELVQKYGPKRWSLIAKHLKGRIGKQCRERWHNHLNPEVKKS
SWTEEEDRIIYEAHKRLGNRWAEIAKLLPGRTDNSIKNHWNSTMRRKVEQEGYLQDGIKSERSSSKLQHK
PCAAMDHMQTQNQFYIPVQIPGYQYVSPEGNCIEHVQPTSAFIQQPFIDEDPDKEKKIKELEMLLMSAEN
EVRRKRIPSQPGSFSSWSGSFLMDDNMSNTLNSLDEHTSEFYSMDENQPVSAQQNSPTKFLAVEANAVLS
SLQTIPEFAETLELIESDPVAWSDVTSFDISDAAASPIKSTPVKLMRIQHNEGAMECQFNVSLVLEGKKN
TCNGGNSEAVPLTSPNIAKFSTPPAILRKKRKMRVGHSPGSELRDGSLNDGGNMALKHTPLKTLPFSPSQ
FFNTCPGNEQLNIENPSFTSTPICGQKALITTPLHKETTPKDQKENVGFRTPTIRRSILGTTPRTPTPFK
NALAAQEKKYGPLKIVSQPLAFLEEDIREVLKEETGTDLFLKEEDEPAYKSCKQENTASGKKVRKSLVLD
NWEKEESGTQLLTEDISDMQSENRFTTSLLMIPLLEIHDNRCNLIPEKQDINSTNKTYTLTKKKPNPNTS
KVVKLEKNLQSNCEWETVVYGKTEDQLIMTEQARRYLSTYTATSSTSRALIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8029_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001080416

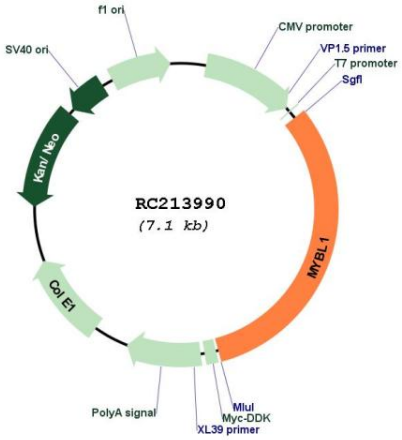
ORF Size: 2256 bp

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
MW:	85.7 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]

Product images:



Circular map for RC213990