

Product datasheet for **SC116779**

c-Myb (MYB) (NM_005375) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | c-Myb (MYB) (NM_005375) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | MYB |
| Synonyms: | c-myb; c-myb_CDS; Cmyb; efg |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Cell Selection: | None |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005375, the custom clone sequence may differ by one or more nucleotides

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ATGCCCCGAAGACCCCGGCACAGCATATATAGCAGTGACGAGGATGATGAGGACTTTGAGATGTGTGACC
ATGACTATGATGGGCTGCTTCCCAAGTCTGAAAGCGTCACTTGGGAAAAACAAGGTGGACCCGGGAAGA
GGATGAAAAACTGAAGAAGCTGGTGAACAGAATGGAACAGATGACTGGAAAGTTATTGCCAATTATCTC
CCGAATCGAACAGATGTGCAGTGCCAGCACCGATGGCAGAAAAGTACTAAACCCTGAGCTCATCAAGGGTC
CTTGACCAAAAGAAGATCAGAGAGTGATAGAGCTTGTACAGAAAACGCTCCGAAACGTTGGTCTGT
TATTGCCAAGCACTTAAAGGGGAGAATTGAAAAACAATGTAGGGAGAGGTGGCATAAACCCTTGAATCCA
GAAGTTAAGAAAACCTCCTGGACAGAAGAGGAAGACAGAATTATTTACCAGGCACACAAGAGACTGGGA
ACAGATGGGCAGAAATCGCAAAGCTACTGCCTGGACGAACTGATAATGCTATCAAGAACCCTGGAATTC
TACAATGCGTCGAAGGTCGAACAGGAAGTTATCTGCAGGAGTCTTCAAAGCCAGCCAGCCAGCAGTG
GCCACAAGCTTCCAGAAGAAGCAGTCATTTGATGGGTTTTGCTCAGGCTCCGCCTACAGCTCAACTCCCTG
CCACTGGCCAGCCACTGTTAACACGACTATTCTATTACCACATTTCTGAAGCACAAAATGTCTCCAG
TCATGTTCCATACCCTGTAGCGTTACATGTAATATAGTCAATGTCCCTCAGCCAGCTGCCGCAGCCATT
CAGAGACACTATAATGATGAAGACCCTGAGAAGGAAAAGCGAATAAAGGAATTAGAATTGCTCCTAATGT
CAACCGAGAATGAGCTAAAAGGACAGCAGGTGCTACCAACACAGAACCACACATGCAGCTACCCCGGGTG
GCACAGCACCACCATTGCCGACCACACCAGACCTCATGGAGACAGTGCACCTGTTTCTGTTGGGAGAA
CACCCTCCACTCCATCTCTGCCAGCGGATCCTGGCTCCCTACCTGAAGAAAAGCGCTCGCCAGCAAGGT
GCATGATCGTCCACCAGGGCACCATTCTGGATAATGTTAAGAACCTCTTAGAATTTGCAGAAACTCCA
ATTTATAGATTTCTTAAACACTTCCAGTAAACATGAAAACCTCAGACTTGGAAATGCCTTCTTAACT
TCCACCCCTCATTGGTCACAAATGACTGTTACAACACCATTTCATAGAGACCAGACTGTGAAAATC
AAAAGGAAAATACTGTTTTAGAACCCAGCTATCAAAAAGGTCAATCTTAGAAAAGCTCTCAAGAATCC
TACACCATTCAAACATGCACTTGCAGCTCAAGAAATTAATACGGTCCCTGAAGATGCTACCTCAGACA
CCCTCTCATCTAGTAGAAGATCTGCAGGATGTGATCAAACAGGAATCTGATGAATCTGGAATTTGTGCTG
AGTTTTCAAGAAAATGGACCACCCTTACTGAAGAAAATCAAACAAGAGGTGGAATCTCAACTGATAAATC
AGGAAACTTCTTCTGCTCACACCCTGGGAAGGGGACAGTCTGAATACCCAAGTTCACGCAGACCTCG
CCTGTGGCAGATGCACCGAATATTCTTACAAGTCCGTTTTAATGGCACCAGCATCAGAAGTGAAGACA
ATGTTCTCAAAGCATTACAGTACCTAAAACAGTCCCTGGCGAGCCCTTGCAGCCTGTAGCAGTAC
CTGGAACTGCATCCTGTGAAAGATGGAGGAGCAGATGACATCTCCAGTCAAGCTCGTAAATACGTG
AATGCATTCTCAGCCCGACGCTGGTCATGTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005375 unedited

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GGTTAAAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGCAGGCAGG
CGGCGGGCAGCGGGAGGCGGCAGCCCGGTGCGGTCCCCGCGGCTCTCGGCGGAGCCCCG
GCCCGCCGCGCCATGGCCGAAGACCCCGGCACAGCATATATAGCAGCGACGAGGATGAT
GAGGACTTTGAGATGTGTGACCATGACTATGATGGGCTGCTTCCCAAGTCTGAAAGCGT
CACTTGGGGAAAACAAGGTGGACCCGGGAAGAGGATGAAAACCTGAAGAAGCTGGTGGAA
CAGAATGGAACAGATGACTGAAAGTTATTGCCAATTATCTCCGAATCGAACAGATGTG
CAGTGCCAGCACCGATGGCAGAAAAGTACTAAACCCTGAGCTCATCAAGGGTCTTGGACC
AAAGAAGAAGATCAGAGAGTGATAGAGCTTGTACAGAAAACGCTCCGAAACCGTTGGTC
TGTTATTGCCAAGCCACCTTAAAGGGGAGAATTGAAAAACAATGTATGGAGAGGTGGCA
TAACCCTTGAATCCACAAGTTAAGAAAACCTCCTGGACCGAACAGGAAGACAGAATTAT
TTACCAGGCACACCAGAGACTGGGGGAACAGAATGGCCACACATCGCAAAGCTACTGCCT
GGCAGCAACTGATCATGCTATCCAAGAACCCTGGGCAATTCTACAATGCCTCCCAAAGG
CCCACCAGGAAGTTATCTTGAACACTTTTCAAAGCCCCCGCCGAGTGCCTCCATC
TTTACACAACAACCTTCGATGGCTTTTGTCTCAGCTCCGCTACAGCTTACTTCTGCCC
TTGGCCACCCACCGTTACCCCACTATTCTATACCCCTTTTGGACCCCAACGTCTCCA
CCCTGCTCCATCCT
    
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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_005375 unedited CGGCACGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATAAGGGCAC ATCTTTATTTTGTACAAGGCAGTAAGTACACCGTCATATCTCAAAGTTCAGTGCTGGC CATCTTGCATCAAATGTTCTTAAAGGCAGTGACTGGCTATCAACCACAGTTTCTGTCTCCC CAGTTGCAAACACAGGATCCATGCAACAGTTCTGAGACCATACTTAGAAACCACAGGG GATGCGGATCAAATGCAGAACTCCCAAATTATAAACAGTCAGGCTACACTCAAAACAAA ACATAGAACATCAACAACACACATCTCCCAAAAAAGAAGTGCAACGCATGCTTGATAAA CCAACAATAACAAAAAACCAATAAAAAATGCAGAGTCTCCCAACAAGTTTTCAAAT GTATTGCAGAAGGAAAAAATGTATATATATAAAATTAAGTCTGAAATACTAGT GCATAGTCAATTACCTAACACCAAGTTTCTTTCTTTCTGTCCAAGCTCTACTGCCCTC TGATACTAGCAGCATGTCTACAGGCTAAGACCATAGCAGCAAAAAACGTTTTTCATTTGG CATTTACAAAATTAATTAAGTGAATAAAAAATATAATTTTTTATAAACTATTTCTTACAG TAATAATTTTTAAAGCAAGCTAACAGAAAACATATAAAATGGTTTGGTACAATAAATGTA CCTTCAATGTCATTAACCATAAATGAGCATTACCATCTGGATTAATGTCACATGGTAT TAAGTCTACACTTANAGTAATGCTCTTACTGATTCTAAAATATATGCATATGCCTAGT ATCGAGAAAGTAAATACTGGAGTACCCTTTAATGTGTCAAATTTCAAAAAACCATCACA GGAAAAATACTGTCTGTTGGACCTTAAATACAGATAATCACTTTAGTTTTTTTTAAAAA ACTGCCTAAGAATTACACTGG |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_005375 |
| Insert Size: | 3180 bp |
| OTI Disclaimer: | <p>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.</p> <p>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</p> |
| RefSeq: | NM_005375.2 , NP_005366.2 |
| RefSeq Size: | 3342 bp |
| RefSeq ORF: | 1923 bp |
| Locus ID: | 4602 |
| UniProt ID: | P10242 , Q708E9 |
| Domains: | myb_DNA-binding |
| Protein Families: | Druggable Genome, ES Cell Differentiation/IPS, Stem cell - Pluripotency, Transcription Factors |

Gene Summary:

This gene encodes a protein with three HTH DNA-binding domains that functions as a transcription regulator. This protein plays an essential role in the regulation of hematopoiesis. This gene may be aberrantly expressed or rearranged or undergo translocation in leukemias and lymphomas, and is considered to be an oncogene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]

Transcript Variant: This variant (2, also known as M15024) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) is shorter than isoform 1.