

## Product datasheet for **RG203540**

### **B MyB (MYBL2) (NM\_002466) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	B MyB (MYBL2) (NM_002466) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B MyB
Synonyms:	B-MYB; BMYB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG203540 representing NM\_002466  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCTCGGCGGACGCGCTGCGAGGATCTGGATGAGCTGCACTACCAGGACACAGATTCAGATGTGCCGG  
 AGCAGAGGGATAGCAAGTGCAAGGTCAAATGGACCCATGAGGAGGACGAGCAGCTGAGGGCCCTGGTGAG  
 GCAGTTTGGACAGCAGGACTGGAAGTTCCTGGCCAGCCACTTCCCTAACCGCACTGACCAGCAATGCCAG  
 TACAGGTGGCTGAGAGTTTTGAATCCAGACCTTGTCAAGGGGCCATGGACCAAAGAGGAAGACAAAAAG  
 TCATCGAGCTGGTTAAGAAGTATGGCACAAAGCAGTGGACACTGATTGCCAAGCACCTGAAGGGCCGGCT  
 GGGGAAGCAGTGCCGTGAACGCTGGCACAAACACCTCAACCTGAGGTGAAGAAGTCTTGCTGGACCGAG  
 GAGGAGGACCGCATCATCTGCGAGGCCACAAGGTGCTGGCAACCGCTGGGCCGAGATCGCCAAGATGT  
 TGCCAGGGAGGACAGACAATGCTGTGAAGAATCACTGAACTCTACCATCAAAGGAAGGTGGACACAGG  
 AGGCTTCTTGAGCGAGTCCAAGACTGCAAGCCCCAGTGTACTTGTCTGAGCTCGAGGACAAGGAC  
 GGCTCCAGAGTGCCAGCCACGGAAGGCCAGGGAAGTCTTGACCAACTGGCCCTCCGTCCTCCTA  
 CCATAAAGGAGGAGGAAAACAGTGAGGAGGAAGTTCAGCAGCCACCACATCGAAGGAACAGGAGCCCAT  
 CGGTACAGATCTGGACGCACTGCGAACACCAGAGCCCTTGAGGGAATTCCTGAAGCGTGAGGACCAGGAA  
 GGCTCCCCACAGAAACGAGCCTGCCTTACAAGTGGTGGTGGAGGCAGCTAACCTCCTCATCCCCGCTG  
 TGGGTTCTAGCCTCTCTGAAGCCTGGACTTGATCGAGTCGGACCCTGATGCTTGGTGTGACCTGAGTAA  
 ATTTGACCTCCCTGAGGAACCATCTGCAGAGGACAGTATCAACAACAGCCTAGTGACAGTGAAGCGTCA  
 CATCAGCAGCAAGTCTGCCACCCGCCAGCCTTCCGCCCTGGTCCAGTGTGACCGAGTACCGCCTGG  
 ATGGCCACACCATCTCAGACCTGAGCCGGAGCAGCCGGGGCGAGCTGATCCCCATCTCCCCAGCACTGA  
 AGTCGGGGGCTCTGGCATTGGCACACCGCCTCTGTGCTCAAGCGGCAGAGGAAGAGGCGTGTGGCTCTG  
 TCCCTGTCACTGAGAATAGCACCACTGTGCCTTCTGGATTCTGTAAACAGCCTCACGCCAAGAGCA  
 CACCTGTTAAGACCCTGCCCTTCTCGCCCTCCCAGTTTCTGAACTTCTGGAAACAACAGGACACATTGGA  
 GCTGGAGAGCCCCCTCGTGACATCCACCCAGTGTGCAGCCAGAAGTGGTGGTCAACCACACCACTGCAC  
 CGGGACAAGACACCCCTGCACCAGAAACATGCTGCGTTTGTAAACCCAGATCAGAAGTACTCCATGGACA  
 ACACTCCCCACACGCCAACCCCTTCAAGAACGCCCTGGAGAAGTACGGACCCCTGAAGCCCTGCCACA  
 GACCCCGCACCTGGAGGAGGACTTGAAGGAGGTGCTGCGTTCTGAGGCTGGCATCGAACTCATCATCGAG  
 GACGACATCAGGCCCGAGAAGCAGAAGAGGAAGCCTGGGCTGCGCGGAGCCCCATCAAGAAAGTCCGGA  
 AGTCTCTGGCTCTTGACATTGTGGATGAGGATGTGAAGCTGATGATGTCCACACTGCCAAAGTCTCTATC  
 CTTGCCGACAACCTGCCCTTCAAACCTTCCAGCCTCACCTGTGAGGTATCAAAGAAGACAACAGCTTG  
 CTCAACCAGGGCTTCTTGACAGGCCAAGCCCGAGAAGGCAGCAGTGGCCAGAAAGCCCGAAGCCACTTCA  
 CGACACCTGCCCTATGTCCAGTGCCTGGAAGACGGTGGCCTGCGGGGGACCAGGGACCAGCTTTTCAT  
 GCAGGAGAAAGCCCGCAGCTCCTGGCCCGCTGAAGCCAGCCACACATCTCGGACCCTCATCTTGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG203540 representing NM\_002466  
 Red=Cloning site Green=Tags(s)

MSRRTRCEDLDELHYQDTSADVPEQRDSKCKVKWTHEEDEQLRALVRQFGQDQWKFLASHFPNRTDQQCQ  
 YRWLRVLNPDLVKGPWTKKEDQKVIELVKKYGTKQWTLIAKHLKGRGKQCRERWHNHLNPEVKKSCWTE  
 EEDRIICEAHKVLGNRWAEIAKMLPGRTDNAVKNHWNSTIKRKVDYGGFLSESKDCKPPVYLLLELDKD  
 GLQSAQPTGQGSLLTNWPSVPPTIKEEENSEEELAAATTSKEQEPIGTDLDAVRTPEPLEEFPKREDQE  
 GSPPETSLPYKWVVEANLLIPAVGSSSEALDLIESDPDAWCDLSKFDLPEEPSAEDSINNSLVQLQAS  
 HQQVLPQRQPSALVPSVTEYRLDGHTISDLSRSSRGELIPISPSSTEVGGSGIGTPPSVLKRQRKRRVAL  
 SPVTENSTLSFLDSCNSLTPKSTPVKTLPFSPSQFLNFWNKQDTLELESPLTSTPVCSQKVVVTTPLH  
 RDKTPLHQKHAAFVTPDQKYSMDNTPHTPTPFKNALEKYGPLKPLQTPHLEEDLKEVLRSEAGIELIEE  
 DDIRPEKQKRKPLRRSPIKKVRKSLALDIVDEDVKLMMSTLPKSLSLPTTAPSNSSSLTSGIKEDNSL  
 LNQGFLQAKPEKAAVAQKPRSHFTTPAPMSSAWKTVACGGTRDQLFMQEKARQLLGRKPSHTSRTLILS

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

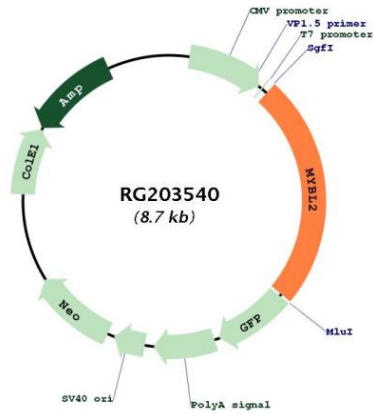


**ACCN:** NM\_002466

**ORF Size:** 2100 bp

<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<p><a href="#">NM_002466.2</a>, <a href="#">NP_002457.1</a></p>
<b>RefSeq Size:</b>	<p>2731 bp</p>
<b>RefSeq ORF:</b>	<p>2103 bp</p>
<b>Locus ID:</b>	<p>4605</p>
<b>UniProt ID:</b>	<p><a href="#">P10244</a></p>
<b>Cytogenetics:</b>	<p>20q13.12</p>
<b>Domains:</b>	<p>myb_DNA-binding</p>
<b>Protein Families:</b>	<p>Druggable Genome, Stem cell - Pluripotency, Transcription Factors</p>
<b>Gene Summary:</b>	<p>The protein encoded by this gene, a member of the MYB family of transcription factor genes, is a nuclear protein involved in cell cycle progression. The encoded protein is phosphorylated by cyclin A/cyclin-dependent kinase 2 during the S-phase of the cell cycle and possesses both activator and repressor activities. It has been shown to activate the cell division cycle 2, cyclin D1, and insulin-like growth factor-binding protein 5 genes. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013]</p>

Product images:



Circular map for RG203540