

Product datasheet for **RC402620**

B MyB (MYBL2) (NM_002466) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	B MyB (MYBL2) (NM_002466) Human Mutant ORF Clone
Mutation Description:	G427S
Affected Codon#:	427
Affected NT#:	1279
Nucleotide Mutation:	MYBL2 Mutant (G427S), Myc-DDK-tagged ORF clone of Homo sapiens v-myb myeloblastosis viral oncogene homolog (avian)-like 2 (MYBL2) as transfection-ready DNA
Effect:	Reduced nerisk, ssoiion wih
Symbol:	MYBL2
Synonyms:	B-MYB; BMYB
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_002466
ORF Size:	2100 bp
Restriction Sites:	Sgfi-MluI



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ORF Nucleotide
Sequence:

>RC402620 representing NM_002466
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGTCTCGGCGGACGCGCTGCGAGGATCTGGATGAGCTGCACTACCAGGACACAGATTCAGATGTGCCGG
AGCAGAGGGATAGCAAGTGCAAGGTCAAATGGACCCATGAGGAGGACGAGCAGCTGAGGGCCCTGGTGAG
GCAGTTTGAGACAGCAGGACTGGAAGTTCCTGGCCAGCCACTTCCCTAACCCTGACTGACCAGCAATGCCAG
TACAGGTGGCTGAGAGTTTTGAATCCAGACCTTGTCAAGGGGCCATGGACCAAAGAGGAAGACAAAAAG
TCATCGAGCTGGTTAAGAAGTATGGCACAAGCAGTGGACTGATTGCCAAGCACCTGAAGGGCCGGCT
GGGGAAGCAGTGCCGTGAACGCTGGCACAACCCTCAACCCTGAGGTGAAGAAGTCTTGCTGGACCGAG
GAGGAGGACCGCATCATCTGCGAGGCCACAAGGTGCTGGCAACCGCTGGGCCGAGATCGCCAAGATGT
TGCCAGGGAGGACAGACAATGCTGTGAAGAATCACTGGAATCTACCATCAAAGGAAGGTGGACACAGG
AGGCTTCTTGAGCGAGTCCAAGACTGCAAGCCCCAGTGTACTTGTCTGGAGCTCGAGGACAAGGAC
GGCCTCCAGAGTGCCAGCCACGGAAGGCCAGGGAAGTCTTCTGACCAACTGGCCCTCGTCCCTCCTA
CCATAAAGGAGGAGGAAAACAGTGAGGAGGAATTGCAGCAGCCACCACATCGAAGGAACAGGAGCCCAT
CGGTACAGATCTGGACGCACTGCGAACACCAGAGCCCTTGGAGGAATCCCGAAGCGTGAGGACCAGGAA
GGCTCCCCACCAGAAACGAGCCTGCCTTACAAGTGGTGGTGGAGGCAGCTAACCTCCTCATCCCCGCTG
TGGGTTCTAGCCTCTCTGAAGCCCTGGACTTGCAGTGGACCGCCTGATGCTTGGTGTGACCTGAGTAA
ATTTGACCTCCCTGAGGAACCATCTGCAGAGGACAGTATCAACAACAGCCTAGTGCAGCTGCAAGCGTCA
CATCAGCAGCAAGTCTGCCACCCGCCAGCCTTCCGCCCTGGTGCCAGTGTGACCGAGTACCGCCTGG
ATGGCCACACCATCTCAGACCTGAGCCGGAGCAGCCGGGGCAGCTGATCCCCATCTCCCCCAGCACTGA
AGTCGGGGGCTCTGGCATTGGCACACCCGCTCTGTGCTCAAGCGGCAGAGGAAGAGGCGTGTGGCTCTG
TCCCCTGTCACTGAGAATAGCACCACTGTGCTTCTGGATTCTGTAAACAGCCTCACGCCAAGAGCA
CACCTGTTAAGACCCTGCCCTTCTCGCCCTCCCAGTTTCTGAACTTCTGGAACAAAACAGGACACATTGGA
GCTGGAGAGCCCTCGCTGACATCCACCCCACTGTGCAGCCAGAAGGTGGTGGTACCACACCACTGCAC
CGGGACAAGACACCCCTGCACCAGAAACATGCTGCGTTTGTAAACCCAGATCAGAAGTACTCCATGGACA
ACACTCCCACACGCCAACCCGTTCAAGAACGCCCTGGAGAAGTACGGACCCCTGAAGCCCTGCCACA
GACCCCGCACCTGGAGGAGGACTTGAAGGAGTGTGCGTTCTGAGGCTGGCATCGAACTCATCATCGAG
GACGACATCAGGCCCGAGAAGCAGAAGGGAAGCCTGGGCTGCGGCGGAGCCCCATCAAGAAAGTCCGGA
AGTCTCTGGCTCTTGACATTGTGGATGAGGATGTGAAGCTGATGATGTCCACACTGCCCAAGTCTCTATC
CTTGCCGACAACCTGCCCTTCAAACCTTCCAGCCTCACCTGTGAGGTATCAAAGAAAGACAACAGCTTG
CTCAACCAGGGCTTCTTGCAAGCCAAAGCCCGAGAAGGCAGCAGTGGCCAGAAAGCCCGAAGCCACTTCA
CGACACCTGCCCTATGTCCAGTGCCTGGAAGACGGTGGCCTGCGGGGGGACCAGGGACCAGCTTTTCAT
CGAGGAGAAAGCCCGCAGCTCCTGGCCGCTGAAGCCAGCCACACATCTCGGACCCTCATCTTGTC

AGCGGACCCACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGA TAAGGTTTAA

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>
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).
RefSeq:	NP_002457
RefSeq Size:	2100 bp
RefSeq ORF:	2103 bp
Locus ID:	4605
Cytogenetics:	20q13.12
Domains:	myb_DNA-binding
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
MW:	77 kDa
Gene Summary:	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]