

Product datasheet for **RR207206**

Myc (NM_012603) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myc (NM_012603) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myc
Synonyms:	c-myc; mMyc; RNCMYC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR207206 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

CTGAATTTCTTTGGGAGGTGAAAAACCCGACAGTCACGACGATGCCCTCAACGTGAGCTTCGCTAACA
 GGAAGTATGACCTCGACTACGACTCGGTGCAGCCCTATTTTCATCTGCGACGAGGAAGAGAATTTCTATCA
 CCAGCAACAGCAGAGCGAGCTGCAGCCGCCCGCACCCAGTGAGGATATCTGGAAGAAATTCGAGCTGCTG
 CCCACCCCGCCCTGTCCCCAGCCGCCCTCCGGGCTCTGCTCTCCGTCTATGTTGCGGTGCTACGT
 CCTTCTCCCAAGGGAGGACGATGACGGTGGCGGTGGCAACTTCTCCACCGCCGATCAGCTGGAGATGAT
 GACCGAGTACTTGGAGGAGACATGGTGAATCAGAGCTTCATCTGCGATCCTGACGATGAGACCTTCATC
 AAGAACATCATATCCAGGACTGTATGTGGAGCGGCTTCTCGGCCGTGCCAACTGGTCTCCGAGAAGC
 TGGCCTTTACCAGGCTGCGCGCAAAGACAGCACCAGCCTGAGCCCCGCCCGGGCACAGCGTCTGCTC
 CACCTCCAGCCTGTACCTGCAGGACCTCACCGCCGACGCTCCGAGTGCATCGACCCCTCAGTGGTCTTC
 CCTACCCGCTCAACGACAGCAGCTCGCCAAATCCTGTACCTCGTCCGATTCCACGGCCTTCTCTTCTT
 CCTCGGACTCGTGTCTCCTCCGAGTCTCCACGGGCCACCCCTGAGCCCCTAGTGCTGCATGAAGA
 GACACCGCCACCACAGCAGCGACTCTGAAGAAGAACAAGATGATGAGGAAGAAATGATGTGGTGTCT
 GTGGAAAAGAGGCAACCCCTGCCAAGAGGTCCGAGTCAGGGTATCCCCATCAAGAGGCCACAGCAAAC
 CTCCACACAGCCCACTGGTCTCAAGAGGTGCCATGTCTCTACTACCAGCACAATTATGCAGCACCCCC
 CTCCACAAGGAAGGACTATCCAGCTGCCAAGAGGGCAAGTTGGACAGTGGCAGGGTCTGAAACAGATC
 AGCAACAACCGCAATGCTCCAGCCCAAGTCTCAGACACCGAGGAAAACGACAAGAGGGCGACACACA
 AGTCTTTGGAACGTGAGGAGAAAACGAGCTGAAGCGTAGCTTTTTTGGCCTGCGCGACCATCCCTGA
 GTTGAAAACAACGAAAAGGCCCAAGGTAGTTATCCTCAAAAAGCCACCGCCTACATCCTGTCCGTT
 CAAGCAGATGAGCACAACCTCATCTCAGAAAAGGACTTACTGAGGAAACGGCGAGAACAGTTGAAACACA
 AACTCGAACAGCTTCGAAACTCTGGTGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207206 protein sequence
 Red=Cloning site Green=Tags(s)

LNFLWEVENPTVTMPLNVSFANRNYDLDYDSVQPYFICDEEENFYHQQQSELQPPAPSEDIWKKFELL
 PTPPLSPRRSGLCSPSYAVATSFSPREDDDDGGGNFSTADQLEMTELLGGDMVNSFICDPDDETFI
 KNIIIQDCMWSGFSAAKLVSEKLASYQAARKDSTSLSPARGHSVCSTSSLYLQDLTAAASECIDPSVVF
 PYPLNDSSPKSCTSSDSTAFSSSDSLLSSESPRATPEPLVLHEETPPTTSSDSEEEQDDEEIDVVS
 VEKRQPPAKRSESGSPSRGHKPPHSPLVLKRVSTHQHNYAAPPSTRKDYPAAKRAKLDSGRVLKQI
 SNNRKCSSPRSSDTEENDKRRTHNVLERQRRNELKRSFFALRDQIPELENNEKAPKVIVILKATAYILSV
 QADEHKLISEKDLLRKRREQLKHKLEQLRNSGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_012603

ORF Size: 1359 bp

OTI Disclaimer: 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.

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.

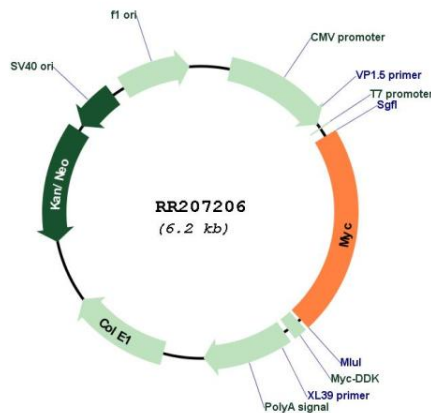
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

RefSeq: [NM_012603.2, NP_036735.2](#)
RefSeq Size: 2355 bp
RefSeq ORF: 1362 bp
Locus ID: 24577
UniProt ID: [P09416](#)
Cytogenetics: 7q33
MW: 50.5 kDa

Gene Summary: The protein encoded by this gene is a multifunctional, nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. It functions as a transcription factor that regulates transcription of specific target genes. Mutations, overexpression, rearrangement and translocation of this gene have been associated with a variety of hematopoietic tumors, leukemias and lymphomas, including Burkitt lymphoma, in human. There is evidence to show that alternative translation initiations from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site result in the production of two isoforms with distinct N-termini, in human and mouse. Rat mRNA also has a similarly placed CUG upstream of the AUG start site, suggesting that it may also produce two Myc proteins. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RR207206