

Product datasheet for **RN207206**

Myc (NM_012603) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myc (NM_012603) Rat Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >RN207206 representing NM_012603
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

CTGAATTTCTTTGGGAGGTGAAAAACCCGACAGTCACGACGATGCCCTCAACGTGAGCTTCGCTAACA
 GGAATATGACCTCGACTACGACTCGGTGCAGCCCTATTTTCATCTGCGACGAGGAAGAGAATTTCTATCA
 CCAGCAACAGCAGAGCGAGCTGCAGCCGCCCGCACCCAGTGAGGATATCTGGAAGAAATTCGAGCTGCTG
 CCCACCCCGCCCTGTCCCCAGCCGCCGCTCCGGGCTCTGCTCTCCGTCTATGTTGCGGTGCTACGT
 CCTTCTCCCCAAGGGAGGACGATGACGGTGGCGGTGGCAACTTCTCCACCGCCGATCAGCTGGAGATGAT
 GACCGAGTACTTGGAGGAGACATGGTGAATCAGAGCTTCATCTGCGATCCTGACGATGAGACCTTCATC
 AAGAACATCATCATCCAGGACTGTATGTGGAGCGGCTTCTCGGCCGTGCCAACTGGTCTCCGAGAAGC
 TGGCTCTTACCAGGCTGCGCGCAAAGACAGCACCAGCCTGAGCCCCGCCCGGGCACAGCGTCTGCTC
 CACCTCCAGCCTGTACCTGCAGGACCTCACCGCCGACGCTCCGAGTGCATCGACCCCTCAGTGGTCTTC
 CCTACCCGCTCAACGACAGCAGCTCGCCCAAATCCTGTACCTCGTCCGATTCCACGGCCTTCTCTTCTT
 CCTCGGACTCGCTGTCTCCTCCGAGTCTCCACGGGCCACCCCTGAGCCCCTAGTGCTGCATGAAGA
 GACACCGCCACCACCAGCAGCGACTCTGAAGAAGAACAAGATGATGAGGAAGAAATGATGTGGTGTCT
 GTGGAAAAGAGGCAACCCCTGCCAAGAGGTCCGAGTCAGGGTATCCCCATCAAGAGGCCACAGCAAAC
 CTCCACACAGCCCACTGGTCTCAAGAGGTGCCATGTCTCTACTACCAGCACAATTATGCAGCACCCCC
 CTCCACAAGGAAGGACTATCCAGCTGCCAAGAGGGCAAGTTGGACAGTGGCAGGGTCTGAAACAGATC
 AGCAACAACCGCAATGCTCCAGCCCAAGTCTCAGACACCGAGGAAAACGACAAGAGGGCGGACACACA
 AGTCTTTGGAACGTCAGAGGAGAAACGAGCTGAAGCGTAGCTTTTTTGGCCCTGCGCGACCCAGATCCCTGA
 GTTGAAAACAACGAAAAGGCCCCCAAGGTAGTTATCCTCAAAAAGCCACCGCCTACATCCTGTCCGTT
 CAAGCAGATGAGCACAACCTCATCTCAGAAAAGGACTTACTGAGGAAAACGGCGAGAACAGTTGAAACACA
 AACTCGAACAGCTTCGAAACTCTGGTGCA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2677_f07.zip

Restriction Sites: SgfI-MluI

ACCN: NM_012603

Insert Size: 1362 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](#)

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:	<ol style="list-style-type: none">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:	<u>NM_012603.2</u> , <u>NP_036735.2</u>
RefSeq Size:	2355 bp
RefSeq ORF:	1362 bp
Locus ID:	24577
UniProt ID:	<u>P09416</u>
Cytogenetics:	7q33
Gene Summary:	<p>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]</p>