

## Product datasheet for **RC201611**

### c-Myc (MYC) (NM\_002467) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	c-Myc (MYC) (NM_002467) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	c-Myc
Synonyms:	bHLHe39; c-Myc; MRTL; MYCC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC201611 representing NM\_002467  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

CTGGATTTTTTTTCGGGTAGTGGAAAACCAGCAGCCTCCCGCAGCATGCCCTCAACGTTAGCTTACCA  
 ACAGGAATATGACCTCGACTACGACTCGGTGCAGCCGTAATTTCTACTGCGACGAGGAGGAGAATTCTA  
 CCAGCAGCAGCAGCAGAGCGAGCTGCAGCCCCCGCGCCAGCGAGGATATCTGGAAGAAATTCGAGCTG  
 CTGCCACCCCGCCCTGTCCCCTAGCCGCGCTCCGGGCTCTGCTCGCCCTCTACGTTGCGGTACAC  
 CCTTCTCCCTTCGGGGAGACAACGACGGCGGTGGCGGAGCTTCTCCACGGCCGACCAGCTGGAGATGGT  
 GACCGAGCTGCTGGGAGGAGACATGGTGAACCAGAGTTTCATCTGCGACCCGGACGACGAGACCTTCATC  
 AAAAATCATCATCCAGGACTGTATGTGGAGCGGCTTCTCGGCCCGCCAAGCTCGTCTCAGAGAAGC  
 TGGCTCTACCAGGCTGCGCGCAAAGACAGCGCAGCCGAACCCCGCCGCGCCACAGCGTCTGCTC  
 CACCTCCAGTTGTACCTGCAGGATCTGAGCGCCGCCCTCAGAGTGCATCGACCCCTCGTGGTCTTC  
 CCTACCTCTCAACGACAGCAGCTCGCCAAGTCTGCGCTCGCAAGACTCCAGCGCCTTCTCTCCGT  
 CCTCGATTCTCTGCTCTCCTCGACGGAGTCTCCCCGACGGGACGCCCCGAGCCCTGGTGTCTCATGA  
 GGAGACACCGCCACCACCAGCAGCGACTCTGAGGAGGAACAAGAAGATGAGGAAGAAATCGATGTTGTT  
 TCTGTGAAAAGAGGCGAGGCTCTGGCAAAGGTGAGAGTCTGGATCACCTTCTGCTGGAGGCCACAGCA  
 AACCTCCTCACAGCCACTGGTCTCAAGAGGTGCCACGCTCTCCACACATCAGCACAACTACGCAGCGCC  
 TCCCTCCACTCGAAGGACTATCCTGCTGCCAAGAGGGTCAAGTTGGACAGTGTGAGAGTCTGAGACAG  
 ATCAGCAACAACCGAAAATGCACCAGCCCCAGTCTCGGACACCGAGGAGAATGTAAGAGGCGAACAC  
 ACAACGCTTGGAGCGCCAGAGGAGGAACGAGCTAAAACGGAGCTTTTTTGCCCTGCGTGACCATCC  
 GGAGTTGAAAACAATGAAAAGGCCCAAGGTAGTTATCCTTAAAAAGCCACAGCATACATCCTGTCC  
 GTCCAAGCAGAGGAGCAAAGCTCATTTCTGAAGAGGACTTGTGCGGAAACGACGAGAACAGTTGAAAC  
 ACAAATGAAACGACTACGGAATCTTGTGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC201611 representing NM\_002467  
 Red=Cloning site Green=Tags(s)

LDFFRVVENQPPATMPLNVSFTNRNYDLDYDSVQPYFYCDEEENFYQQQQSELQPPAPSEDIWKKFEL  
 LPTPPLSPRRSGLCSPSYVAVTPFSLRGDNDGGGSFSTADQLEMVTELLGGDMVNQSFICDPDDETFI  
 KNIIIQDCMWSGFSAALKLVSEKLASYQAARKDSGSPNPARGHSVCSTSSLYLQDLAAAASECIDPSVVF  
 PYPLNDSSPKSCASQDSSAFSPSSDLLSSTESSPQGSPEPLVLHEETPPTTSSDSEEEQEDEEEIDVV  
 SVEKRQAPGKRSESGSPSAGGHSKPPHSPLVLKRCHVSTHQHNYAAPPSTRKDYPAAKRVKLDVSRVLRQ  
 ISNNRKCTSPRSSDTEENVKRRTHNVLERQRRNELKRSFFALRDQIPELENNEKAPKVVILKATAYILS  
 VQAEQKLISEEDLLRKRREQLKHKLEQLRNSCA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg2465\\_c07.zip](https://cdn.origene.com/chromatograms/mg2465_c07.zip)

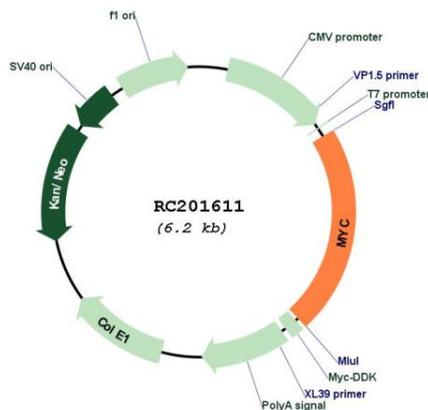
**Restriction Sites:**

Sgfl-MluI

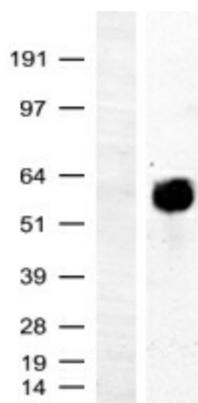


<b>UniProt ID:</b>	<u>P01106</u>
<b>Cytogenetics:</b>	8q24.21
<b>Domains:</b>	HLH, Myc_N_term, Myc-LZ
<b>Protein Families:</b>	Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - TGFb/BMP signaling pathway, Stem cell relevant signaling - Wnt Signaling pathway, Transcription Factors
<b>Protein Pathways:</b>	Acute myeloid leukemia, Bladder cancer, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Jak-STAT signaling pathway, MAPK signaling pathway, Pathways in cancer, Small cell lung cancer, TGF-beta signaling pathway, Thyroid cancer, Wnt signaling pathway
<b>MW:</b>	50.5 kDa
<b>Gene Summary:</b>	This gene is a proto-oncogene and encodes a nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. The encoded protein forms a heterodimer with the related transcription factor MAX. This complex binds to the E box DNA consensus sequence and regulates the transcription of specific target genes. Amplification of this gene is frequently observed in numerous human cancers. Translocations involving this gene are associated with Burkitt lymphoma and multiple myeloma in human patients. There is evidence to show that translation initiates both from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site, resulting in the production of two isoforms with distinct N-termini. [provided by RefSeq, Aug 2017]

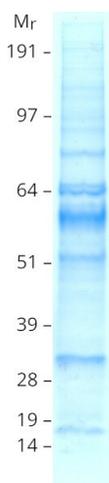
### Product images:



Circular map for RC201611



Western blot validation of overexpression lysate (Cat# [LY400876]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201611 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MYC protein (Cat# [TP301611]). The protein was produced from HEK293T cells transfected with MYC cDNA clone (Cat# RC201611) using MegaTran 2.0 (Cat# [TT210002]).