

Product datasheet for **RG201611**

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:	TurboGFP
Symbol:	c-Myc
Synonyms:	bHLHe39; c-Myc; MRTL; MYCC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG201611 representing NM_002467
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

CTGGATTTTTTTTCGGGTAGTGGAAAACCAGCAGCCTCCCGCAGCATGCCCTCAACGTTAGCTTACCA
 ACAGGAATATGACCTCGACTACGACTCGGTGCAGCCGTAATTTCTACTGCGACGAGGAGGAGAATTCTA
 CCAGCAGCAGCAGCAGAGCGAGCTGCAGCCCCCGCGCCAGCGAGGATATCTGGAAGAAATTCGAGCTG
 CTGCCACCCCGCCCTGTCCCCTAGCCGCCGCTCCGGGCTCTGCTCGCCCTCTACGTTGCGGTACAC
 CCTTCTCCCTTCGGGGAGACAACGACGGCGGTGGCGGGAGCTTCTCCACGGCCGACCAGCTGGAGATGGT
 GACCGAGCTGCTGGGAGGAGACATGGTGAACCAGAGTTTCATCTGCGACCCGGACGACGAGACCTTCATC
 AAAACATCATCATCCAGGACTGTATGTGGAGCGGCTTCTCGGCCCGCCCAAGCTCGTCTCAGAGAAGC
 TGGCTCTACCAGGCTGCGCGCAAAGACAGCGCAGCCGAACCCCGCCGCGCCACAGCGTCTGCTC
 CACCTCCAGCTTGTACCTGCAGGATCTGAGCGCCGCCCTCAGAGTGCATCGACCCCTCGTGGTCTTC
 CCTACCTCTCAACGACAGCAGCTCGCCAAGTCTGCGCTCGCAAGACTCCAGCGCCTTCTCTCCGT
 CCTCGATTCTCTGCTCTCCTCGACGGAGTCTCCCCGACGGGACGCCCCGAGCCCTGGTGTCTCCATGA
 GGAGACACCGCCACCACCAGCAGCGACTCTGAGGAGGAACAAGAAGATGAGGAAGAAATCGATGTTGTT
 TCTGTGAAAAGAGGCAGGCTCTGGCAAAAGGTGAGAGTCTGGATCACCTTCTGCTGGAGGCCACAGCA
 AACCTCCTCACAGCCACTGGTCTCAAGAGGTGCCACGTCTCCACACATCAGCACAACTACGCAGCGCC
 TCCCTCCACTCGAAGGACTATCCTGCTGCCAAGAGGGTCAAGTTGGACAGTGTGAGAGTCTGAGACAG
 ATCAGCAACAACCGAAAATGCACCAGCCCCAGGTCCTCGGACACCGAGGAGAATGTAAGAGGCGAACAC
 ACAACGCTTTGGAGCGCCAGAGGAGGAACGAGCTAAAACGGAGCTTTTTTGCCCTGCGTGACCATGCC
 GGAGTTGGAAAACAATGAAAAGGCCCAAGGTAGTTATCCTTAAAAAAGCCACAGCATACATCCTGTCC
 GTCCAAGCAGAGGAGCAAAGCTCATTTCTGAAGAGGACTTGTGCGGAAACGACGAGAACAGTTGAAAC
 ACAAACCTGAACAGCTACGGAACCTTGTGCG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201611 representing NM_002467
 Red=Cloning site Green=Tags(s)

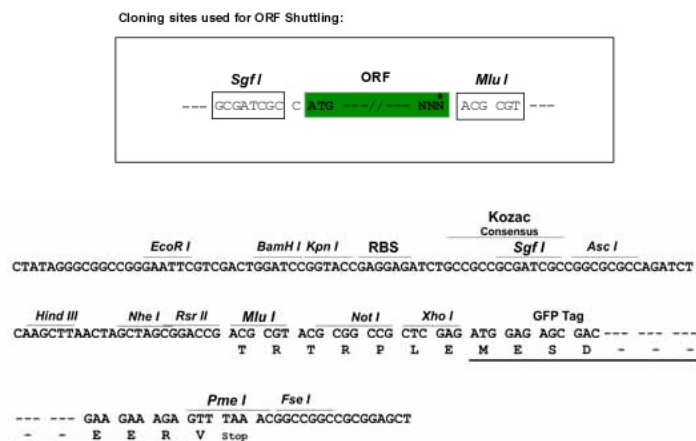
LDFFRVVENQPPATMPLNVSFTNRNYDLDYDSVQPYFYCDEEENFYQQQQSELQPPAPSEDIWKKFEL
 LPTPPLSPSRRLGCLSPSYVAVTPFSLRGDNDGGGFSFSTADQLEMVTELLGGDMVNQSFICDPDDETFI
 KNIIIQDCMWSGFSAAKLVSEKLASYQAARKDSGSPNPARGHSVCSTSSLYLQDLAAAASECIDPSVVF
 PYPLNDSSSPKSCASQDSSAFSPSSDLLSSTESSPQGSPEPLVLHEETPPTTSSDSEEEQEDEEIDVV
 SVEKRQAPGKRSESGSPSAGGHSKPPHSPLVLKRCHVSTHQHNYAAPSTRKDYPAAKRVKLDVSRVLRQ
 ISNNRKCTSPRSSDTEENVKRRTHNVLERQRRNELKRSFFALRDQIPELENNEKAPKVVILKATAYILS
 VQAEEQKLISEEDLLRKRREQLKHKLEQLRNSCA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_002467

ORF Size: 1362 bp

OTI Disclaimer: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_002467.6](#)

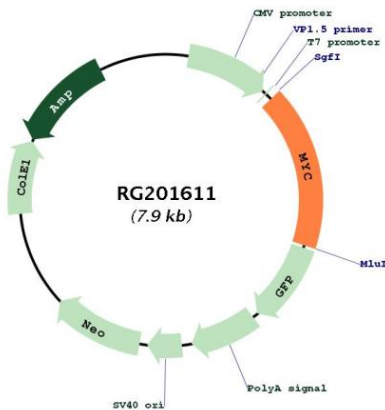
RefSeq Size: 2377 bp

RefSeq ORF: 1365 bp

Locus ID: 4609

UniProt ID:	<u>P01106</u>
Cytogenetics:	8q24.21
Domains:	HLH, Myc_N_term, Myc-LZ
Protein Families:	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
Protein Pathways:	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
Gene Summary:	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 RG201611