

Product datasheet for SC112715

c-Myc (MYC) (NM_002467) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	c-Myc (MYC) (NM_002467) Human Untagged Clone
Tag:	Tag Free
Symbol:	c-Myc
Synonyms:	bHLHe39; c-Myc; MRTL; MYCC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_002467 edited ATGCCCTCAACGTTAGCTTACCAACAGGAAGTATGACCTCGACTACGACTCGGTGCAG CCGATTTCTACTGCGACGAGGAGGAGAACTTCTACCAGCAGCAGCAGAGCGAGCTG CAGCCCCGCGGCCAGCGAGGATATCTGGAAGAAATTCGAGCTGCTGCCACCCGCC CTGTCCCCTAGCCGCGCTCCGGGCTCTGCTCGCCCTCTACGTTGCGGTACACCCCTT TCCCTTCGGGAGACAACGACGGCGGTGGCGGAGCTTCTCCACGGCCGACCAGTGGAG ATGGTGACCGAGCTGCTGGGAGGAGACATGGTGAACCAGAGTTTCATCTGCGACCCGGAC GACGAGACCTTCATCAAAAACATCATCATCCAGGACTGTATGTGGAGCGGCTTCTCGGCC GCCGCAAGCTCGTCTCAGAGAAGCTGGCCTCCTACCAGGCTGCGCGCAAAGACAGCGGC AGCCCGAACCCCGCCCGGCCACAGCGTCTGCTCCACCTCCAGTTGTACCTGCAGGAT CTGAGCGCGCCGCTCAGAGTGCATCGACCCCTCGGTGGTCTTCCCCTACCCTCAAC GACAGCAGCTCGCCAAGTCTGCGCCTCGCAAGACTCCAGCGCCTTCTCTCCGTCTCG GATTCTCTGCTCTCCTCGACGGAGTCTCCCCGAGGGCAGCCCCGAGCCCTGGTGCTC CATGAGGAGACACCGCCACCACCAGCAGCGACTCTGAGGAGGAACAAGAAGATGAGGAA GAAATCGATGTTGTTCTGTGGAAGAGGCGAGGCTCCTGGCAAAGGTGAGAGTCTGGA TCACCTTCTGCTGGAGGCCACAGCAAACCTCCTCACAGCCCACTGGTCTCAAGAGGTGC CACGTCTCCACACATCAGCACAACACGACGCGCTCCCTCCACTCGGAAGGACTATCCT GCTGCCAAGAGGGTCAAGTTGGACAGTGTGAGAGTCTGAGACAGATCAGCAACAACCGA AAATGCCACGCCCCAGGTCTCGGACACCGAGGAGAATGTCAAGAGGCGAACACACAAC GTCTTGGAGCGCCAGAGGAGGAACGAGCTAAAACGGAGCTTTTTTGCCTGCGTGACCAG ATCCCGGAGTTGAAAACAATGAAAAGGCCCCCAAGGTAGTTATCCTTAAAAAAGCCACA GCATACATCCTGTCCGTCCAAGCAGAGGAGCAAAAGCTCATTTCTGAAGAGGACTTGTTG CGGAAACGACGAGAACAGTTGAAACACAAACTTGAACAGCTACGGAACCTTGTGCGTAA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002467 unedited
 TAGATTTCTGTACACGATTCACTATAGGGCGGCCGCGCAATTCGCACGAGGCGGCTAGGG
 TGGAAAGAGCCGGGCGAGCAGAGCTGCGCTGCGGGCGTCTGGGAAGGGAGATCCGGAGCG
 AATAGGGGGCTTCGCCTCTGCCCCAGCCCTCCCCTGATCCCCAGCCAGCGGTCCGCAA
 CCCTTGCCGCATCCACGAAACTTTGCCCATAGCAGCGGGCGGGCACTTTGCACTGGAAC
 TACAACACCCGCAAGGACGCGACTCTCCGACGCGGGGAGGCTATTCTGCCCATTTGG
 GGACACTTCCCCGCCCTGCCAGGACCCGCTTCTGAAAGGCTCCTTGCAGCTGCTT
 AGACGCTGGATTTTTTCGGGTAGTGAAAACCGCCTCCCGCAGCATGCCCTCAACG
 TTAGCTTCACCAACAGGAACTATGACCTCGACTACGACTCGGTGCAGCCGTATTTCTACT
 GCGACGAGGAGGAGAACTTCTACCAGCAGCAGCCAGAGCGAGCTGCAGCCCCGGCG
 CCCAGCGAGGATATCTGGAAGAAATTCGAGCTGCTGCCACCCCGCCCTGTCCCCTAGC
 CGCCGCTCCGGGCTCTGCTCGCCCTCTACGTTGCGGTACACCCCTTCTCCCTTCGGGGA
 GACAACGACGGCGGTGGCGGGAGCTTCCACGGCCGACCAGCTGTAGATGGTGACCGAG
 CTGCTGCGAGGAGACATGCTGAACCACAGTTTCATCTGCGACCCGACGACGAGACCTTC
 ATCAAAAACATCATCATCCAGGACTGTATGTGGGAGCGGTTTTTCGGCGCCGCAAGCT
 CGTCTCAGAGAGCTGGGCTCTACAGGGCTGAGCGCAAGACAGAGGNAGACCGAACC
 CCGCGGGCCAGNGTCTGCTCCACTCCACTTGTACTGCAGTATCTGACGCCGCGCTCAC
 ATGCAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002467 unedited
 TACTTTGGACCCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTATATTTGC
 CAGTTATTTTATTTTTCTAAAAACAATAGAAAAATCAACTTTAAAAAGCAAAATGTAC
 TTAATAAAAAAATTAGGGTTTATAGTACCTATAATACTAGGACTATATACTAGGATT
 GAAATTCTGTGTAAGTGTATAAACGTTTTNATTAAGTNTATTTACATTTAATGGCAA
 TATTTACAGAGAAACATTGTGTAATCTTAAAAATTTTTAAAAACAATTCTTAAATACAA
 ATCTGTTAAAGAAAAAAGATGGTAAGCATAAAAAAGTTCTTTTATGCCCAAAGTCC
 AATTTGAGGCAGTTTACATTATGGCTAAATCTTTCAGTCTCAAGACTCAGCCAAGTTGT
 GAGGTTGCATTTGATCATGCATTTGAAACAAGTTCATAGGTGATTGCTCANGACATTTCT
 GTTAGAAGGAAATCGTTTCTTACTTTTCTTACGCACAAAGAGTCCGTAGCTGTTCAAG
 TTTGTGTTTCAACTGTTCTGTCGTTTCCGCAACAAGTCTTTCAGAAATGAGCTTTTG
 CTCCTCTGCTTGNACGGACAGGATGTATGCTGTGGNCTTTTTAANGGATAACTACCTTNG
 GGGNCCCTTTCATGNTTTCCAACNCCGATCTGGTCACGCAGGCAAAAAAGCTNCGT
 TTTAACTCGTTTCTTCTGCGCTNCAAGACGTTGGGTGTTGCGCTTGTGACATTCTCC
 TCGGTGTCGAAGACCTGGGNGTGTGCAATTTCCGGTGGTGTGATCTGCTTAAGACTT
 TGACACTGTCAACTTGACCTTTTGAACAGAAAGTCTTGAATGAAGGGAGCCCTGCC
 TAATTGCCTAATGTTGAAAAGTGGGCACTCTGAGAACAAGGGCCTTAAGAGTTTTCTG
 GGCCTACCAAAAGGAACCAACTTTGCCCTTTGCCAAAC

Restriction Sites:

ECoRI-NOT

ACCN:

NM_002467

Insert Size:

2100 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:	NM_002467.3 , NP_002458.2
RefSeq Size:	2377 bp
RefSeq ORF:	1365 bp
Locus ID:	4609
UniProt ID:	P01106
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]