

Product datasheet for **MC215953**

Myc (NM_001177353) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myc (NM_001177353) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Myc
Synonyms:	AU016757; bHLHe3; bHLHe39; Myc2; N; Niard; Nird
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC215953 representing NM_001177353
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

CTGGATTTCTTTGGGCGTTGGAACCCCGACAGCCACGACGATGCCCTCAACGTGAATTCACCAACA
 GGAAGTATGACCTCGACTACGACTCCGTACAGCCCTATTTTCATCTGCGACGAGGAAGAGAATTTCTATCA
 CCAGCAACAGCAGAGCGAGCTGCAGCCGCCCGCCAGTGAGGATATCTGGAAGAAATTCGAGCTGCTT
 CCCACCCCGCCCTGTCCCGAGCCGCCCTCCGGGCTCTGCTCTCCATCCTATGTTGCGGTGCTACGT
 CCTTCTCCCAAGGAAGACGATGACGGCGCGGTGGCAACTTCTCCACCGCCGATCAGCTGGAGATGAT
 GACCGAGTTACTTGGAGGAGACATGGTGAACCAGAGCTTCATCTGCGATCCTGACGACGAGACCTTCATC
 AAGAACATCATCATCCAGGACTGTATGTGGAGCGGTTTCTCAGCCGCTGCCAAGCTGGTCTCGGAGAAGC
 TGGCTCTACCAGGCTGCGCGCAAAGACAGCACCAGCCTGAGCCCGCCCGGGCACAGCGTCTGCTC
 CACCTCCAGCCTGTACCTGCAGGACCTCACCGCCGCCGCTCCGAGTGCATTGACCCCTCAGTGGTCTTT
 CCTACCCGCTCAACGACAGCAGCTCGCCCAAATCCTGTACCTCGTCCGATTCCACGGCCTTCTCTCCTT
 CCTCGGACTCGTGTCTCCTCCGAGTCTCCACGGGCCAGCCCTGAGCCCTAGTGCTGCATGAGGA
 GACACCGCCACCACCAGCAGCGACTCTGAAGAAGAGCAAGAAGTGAAGGAAATTTGATGTGGTGTCT
 GTGGAGAAGAGGCAAACCCCTGCCAAGAGGTCCGAGTCCGGCTCATCTCCATCCCGAGGCCACAGCAAAC
 CTCCGCACAGCCCACTGGTCTCAAGAGGTGCCACGTCTCCTACTACCAGCACAACCTACGCCGACCCCC
 CTCCACAAGGAAGGACTATCCAGCTGCCAAGAGGGCAAGTTGGACAGTGGCAGGGTCTGAAGCAGATC
 AGCAACAACCGCAAGTCTCCAGCCCAAGTCTCAGACACGGAGGAAAACGACAAGAGGGCGACACACA
 ACGTCTTTGGAACGTCAGAGGAGGAACGAGCTGAAGCGCAGCTTTTGGCCCTGCGTGACCAGATCCCTGA
 ATTTGAAAACAACGAAAAGGCCCAAGGTAGTGATCCTCAAAAAGCCACCGCCTACATCCTGTCCATT
 CAAGCAGACGAGCACAAGCTCACCTCTGAAAAGGACTATTGAGGAAACGACGAGAACAGTTGAAACACA
 AACTCGAACAGCTTCGAAACTCTGGTGCA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001177353

Insert Size: 1362 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001177353.1](#), [NP_001170824.1](#)

RefSeq Size: 2396 bp

RefSeq ORF: 1362 bp

Locus ID: 17869

UniProt ID: [P01108](#)

Cytogenetics: 15 26.19 cM

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. Under conditions of stress, such as high cell densities and methionine deprivation, there is a specific and dramatic increase in the synthesis of the non-AUG initiated protein, suggesting its importance in times of adversity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2010]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. This variant encodes two isoforms due to the use of alternative translation initiation codons. The longer isoform (c) is derived from a non-AUG (CUG) start codon, while a shorter isoform (b, also known as c-Myc 2) is derived from a downstream AUG start codon. The longer isoform (c) is represented in this RefSeq, and is 1 aa shorter, compared to isoform a. CCDS Note: This CCDS ID represents a c-Myc isoform that initiates translation at a well-conserved non-AUG (CUG) start codon. Evidence in the literature, including in PMIDs 1628829, 3277717 and 9032273, shows that the transcript can produce multiple isoforms due to the use of alternative translation initiation codons. This transcript variant is supported by the long mRNA AK133952.1 and by several ESTs. Alternative translation initiation at a downstream AUG start codon also produces a shorter isoform, known as c-Myc 2. The shorter isoform is represented by CCDS 49615.1.