

## Product datasheet for MR227357

### Myc (NM\_001177352) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myc (NM_001177352) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myc
Synonyms:	AU016757; bHLHe3; bHLHe39; Myc2; N; Niard; Nird
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>NM_001177352 ORF sequence, MR227357 may differ due to SNPs. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCCTCAACGTGAACCTCACCAACAGGAACATGACCTCGACTACGACTCCGTACAGCCCTATTTTC
ATCTGCGACGAGGAAGAGAATTTCTATCACCAGCAACAGCAGAGCGAGCTGCAGCCGCCCGCCAGT
GAGGATATCTGGAAGAAATTCGAGCTGCTTCCCACCCGCCCTGTCCCGAGCCGCCGCTCCGGGCTC
TGCTCTCCATCCTATGTTGCGGTCGCTACGTCCTTCTCCCAAGGAAGACGATGACGGCGCGGTGGC
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TTCTCAGCCGCTGCCAAGCTGGTCTCGGAGAAGCTGGCCTCTACCAGGCTGCGCGCAAAGACAGCACC
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GCCCGTCCGAGTGCAATTGACCCCTCAGTGGTCTTTCCCTACCCGCTCAACGACAGCAGCTCGCCAAA
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CCACGGCCAGCCCTGAGCCCTAGTGTGCATGAGGAGACACCGCCACCACCAGCAGCGACTCTGAA
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TCTGAAAAGGACTTATTGAGAAACGACGAGAACAGTTGAAACACAACTCGAACAGCTTCGAAACTCT
GGTGCA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
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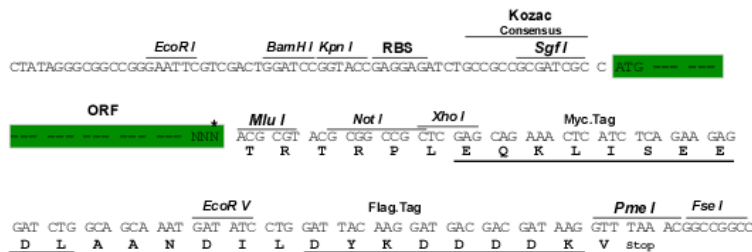
**Protein Sequence:** >Peptide sequence encoded by MR227357  
 Blue=ORF Red=Cloning site Green=Tag(s)

MPLNVNFTNRNYDLDYDSVQPYFICDEEENFYHQQQSELPAPSEDIWKKFELLPTPPLSPRRSGL  
 CSPSYVAVATSFSPREDDGGGGNFSTADQLEMTELLGGDMVNQSFICDPDDETFIKNIIQDCMWSG  
 FSAAKLVSEKLASYQAARKDSTLSARGHVCSTSSLYLQDLTAAASECIDPSVFFPYPLNDSSPK  
 SCTSSDSTAFSPSSDLLSSESSPRASPEPLVLHEETPPTTSSDSEEEQEDEEEIDVVSVEKRQTPAKR  
 SEGSSPSRGHSKPPHSPLVLKRCHVSTHQHNYAAPSTRKDYPAAKRAKLDSGRVLKQISNNRKCSSP  
 RSSDTEENDKRRTHNVLERQRRNELKRSFFALRDQIPELENNEKAPKVVILKKATAYILSIQADEHKL  
 SEKDLLRKRREQLKHKLEQLRNSGA  
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001177352

**ORF Size:** 1317 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.

**RefSeq Size:** 2399 bp

**RefSeq ORF:** 1320 bp

**Locus ID:** 17869

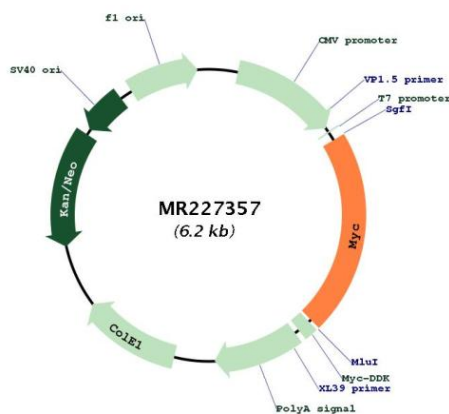
**UniProt ID:** [P01108](#)

**Cytogenetics:** 15 26.19 cM

**MW:** 49 kDa

**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]

### Product images:



Circular map for MR227357