

Product datasheet for **MG227353**

Myc (NM_010849) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myc (NM_010849) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Myc
Synonyms:	AU016757; bHLHe3; bHLHe39; Myc2; N; Niard; Nird
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227353 representing NM_010849
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

CTGGATCCGGTACCGAGGAGATCTGCCCGCGCATCGCCCTGGATTTCTTTGGGCGTTGGAACCCCGC
 AGACAGCCACGACGATGCCCTCAACGTGAACCTCACCAACAGGAACATGACCTCGACTACGACTCCGT
 ACAGCCCTATTTTCATCTGCGACGAGGAAGAATTTCTATCACCAGCAACAGCAGAGCGAGCTGCAGCCG
 CCCGCGCCAGTGAGGATATCTGGAAGAAATTCGAGCTGCTTCCCACCCCGCCCTGTCCCCGAGCCGCC
 GCTCCGGGCTCTGCTCTCCATCTATGTTGCGGTGCTACGTCCTTCTCCCAAGGAAGACGATGACGG
 CGGCGGTGGAACCTTCTCCACCGCCGATCAGCTGGAGATGATGACCGAGTTACTTGGAGGAGACATGGT
 AACAGAGCTTCTGCGATCTGACGACGAGACCTTCAAGAACATCATCATCCAGGACTGTATGT
 GGAGCGGTTTCTAGCCGCTGCCAAGCTGGTCTCGGAGAAGCTGGCTCCTACCAGGCTGCGCGCAAGA
 CAGCACCAGCCTGAGCCCGCCCGGGCACAGCGTCTGCTCCACCTCCAGCCTGTACCTGCAGGACCTC
 ACCGCCGCGCGTCCGAGTGCATTGACCCCTCAGTGGTCTTCCCTACCCGCTCAACGACAGCAGCTCGC
 CCAATCTGTACCTCGTCCGATTCCACGGCCTTCTCTCCTTCTCGACTCGTGTCTCTCCGAGTC
 CTCCCCACGGGCCAGCCCTGAGCCCTAGTGTGCATGAGGAGACACCGCCACCACCAGCAGCGACTCT
 GAAGAAGAGCAAGAAGATGAGGAAGAAATTGATGTGGTGTCTGTGGAGAAGAGGCAAAACCCTGCCAAGA
 GGTCCGAGTCGGGCTCATCTCCATCCCAGGCCACAGCAAACCTCCGACAGCCCACTGGTCTCAAGAG
 GTGCCACGTCTCCACTCACCAGCACAACACGCGCACCCCTCCACAAGGAAGGACTATCCAGCTGCC
 AAGAGGGCCAAGTTGGACAGTGGCAGGGTCTGAAGCAGATCAGCAACAACCGCAAGTCTCCAGCCCA
 GTCCTCAGACACGGAGGAAAACGACAAGAGGGCGGACACACAACGTCCTTGAACGTCAGAGGAGGAACGA
 GCTGAAGCGCAGCTTTTTTGCCTGCGTGACCAGATCCCTGAATTGGAAAACAACGAAAAGCCCCCAAG
 GTAGTGATCCTCAAAAAAGCCACCGCTACATCCTGTCCATTCAAGCAGACGAGCACAAGCTCACCTCTG
 AAAAGGACTTATTGAGGAAACGACGAGAACAGTTGAAACACAACTCGAACAGCTTCGAAACTCTGGTGC
 A

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG227353 representing NM_010849
 Red=Cloning site Green=Tags(s)

LDPVPRRSAAAIALDFLWALETPQTATTMPLNVNFTNRNYDLDYDSVQPYFICDEEENFYHQQQSELQP
 PAPPEDIWKKFELLPTPPLSPRRSGLCSPSYVAVATSFSPREDDGGGNGFSTADQLEMMTELLGGDMV
 NQSFICDPDETFIKNIIIQDCMWSGFSAAKLVSEKLASYQAARKDSTLSPARGHSVCSTSSLYLQDL
 TAAASECIDPSVVPYPLNDSSSPKSCSTSSDSTAFSPSSDLLSSESSPRASPEPLVLHEETPPTTSSDS
 EEEQEDEEIDVVSVEKRQTPAKRSESGSPSRGHSKPPHSPLVLKRCHVSTHQHNYAAPSTRKDYPA
 KRAKLDGRVLKQISNNRKSSPRSSDTEENDKRRTHNVLERQRRNELKRSFFALRDQIPELENNEKAPK
 VVILKATAYILSIQADEHKLTEKDLLRKRREQLKHKLEQLRNSGA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_010849

ORF Size: 1401 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: [NM_010849.4](#), [NP_034979.3](#)

RefSeq Size: 2399 bp

RefSeq ORF: 1365 bp

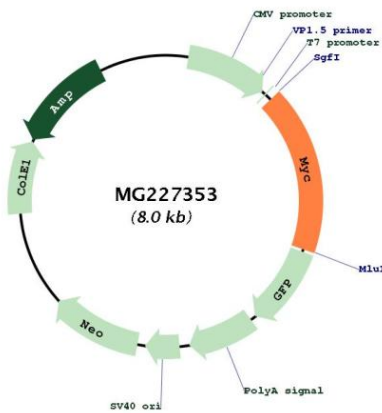
Locus ID: 17869

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]

Product images:



Circular map for MG227353