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Product datasheet for MG227357

Myc (NM_001177352) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myc (NM_001177352) 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)

View online »

ORF Nucleotide Sequence:

>MG227357 representing NM_001177352
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

CTGGATTTCCTTTGGGCGTTGGAAACCCCGCAGACAGCCACGACGATGCCCCTCAACGTGAACTTCACCA
ACAGGAACTATGACCTCGACTACGACTCCGTACAGCCCTATTTCATCTGCGACGAGGAAGAGAATTTCTA
TCACCAGCAACAGCAGAGCGAGCTGCAGCCGCCCGCGCCCAGTGAGGATATCTGGAAGAAATTCGAGCTG
CTTCCCACCCCGCCCCTGTCCCCGAGCCGCCGCTCCGGGCTCTGCTCTCCATCCTATGTTGCGGTCGCTA
CGTCCTTCTCCCCAAGGGAAGACGATGACGGCGGCGGTGGCAACTTCTCCACCGCCGATCAGCTGGAGAT
GATGACCGAGTTACTTGGAGGAGACATGGTGAACCAGAGCTTCATCTGCGATCCTGACGACGAGACCTTC
ATCAAGAACATCATCATCCAGGACTGTATGTGGAGCGGTTTCTCAGCCGCTGCCAAGCTGGTCTCGGAGA
AGCTGGCCTCCTACCAGGCTGCGCGCAAAGACAGCACCAGCCTGAGCCCCGCCCGCGGGCACAGCGTCTG
CTCCACCTCCAGCCTGTACCTGCAGGACCTCACCGCCGCCGCGTCCGAGTGCATTGACCCCTCAGTGGTC
TTTCCCTACCCGCTCAACGACAGCAGCTCGCCCAAATCCTGTACCTCGTCCGATTCCACGGCCTTCTCTC
CTTCCTCGGACTCGCTGCTGTCCTCCGAGTCCTCCCCACGGGCCAGCCCTGAGCCCCTAGTGCTGCATGA
GGAGACACCGCCCACCACCAGCAGCGACTCTGAAGAAGAGCAAGAAGATGAGGAAGAAATTGATGTGGTG
TCTGTGGAGAAGAGGCAAACCCCTGCCAAGAGGTCGGAGTCGGGCTCATCTCCATCCCGAGGCCACAGCA
AACCTCCGCACAGCCCACTGGTCCTCAAGAGGTGCCACGTCTCCACTCACCAGCACAACTACGCCGCACC
CCCCTCCACAAGGAAGGACTATCCAGCTGCCAAGAGGGCCAAGTTGGACAGTGGCAGGGTCCTGAAGCAG
ATCAGCAACAACCGCAAGTGCTCCAGCCCCAGGTCCTCAGACACGGAGGAAAACGACAAGAGGCGGACAC
ACAACGTCTTGGAACGTCAGAGGAGGAACGAGCTGAAGCGCAGCTTTTTTGCCCTGCGTGACCAGATCCC
TGAATTGGAAAACAACGAAAAGGCCCCCAAGGTAGTGATCCTCAAAAAAGCCACCGCCTACATCCTGTCC
ATTCAAGCAGACGAGCACAAGCTCACCTCTGAAAAGGACTTATTGAGGAAACGACGAGAACAGTTGAAAC
ACAAACTCGAACAGCTTCGAAACTCTGGTGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

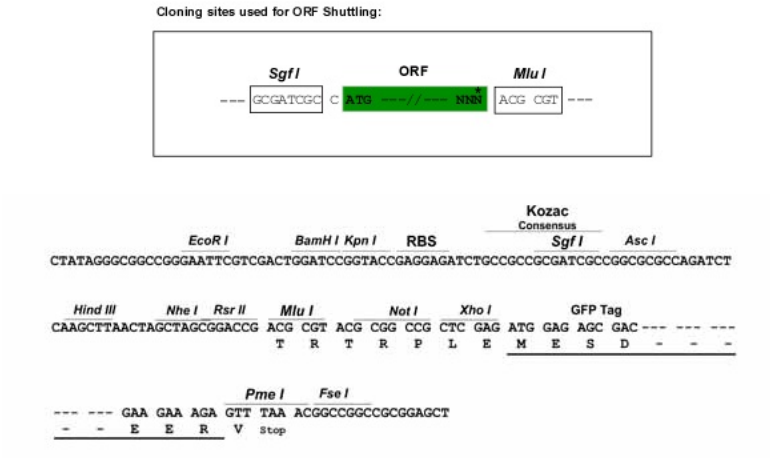
>MG227357 representing NM_001177352
Red=Cloning site Green=Tags(s)

LDFLWALETPQTATTMPLNVNFTNRNYDLDYDSVQPYFICDEEENFYHQQQQSELQPPAPSEDIWKKFEL
LPTPPLSPSRRSGLCSPSYVAVATSFSPREDDDGGGGNFSTADQLEMMTELLGGDMVNQSFICDPDDETF
IKNIIIQDCMWSGFSAAAKLVSEKLASYQAARKDSTSLSPARGHSVCSTSSLYLQDLTAAASECIDPSVV
FPYPLNDSSSPKSCTSSDSTAFSPSSDSLLSSESSPRASPEPLVLHEETPPTTSSDSEEEQEDEEEIDVV
SVEKRQTPAKRSESGSSPSRGHSKPPHSPLVLKRCHVSTHQHNYAAPPSTRKDYPAAKRAKLDSGRVLKQ
ISNNRKCSSPRSSDTEENDKRRTHNVLERQRRNELKRSFFALRDQIPELENNEKAPKVVILKKATAYILS
IQADEHKLTSEKDLLRKRREQLKHKLEQLRNSGA

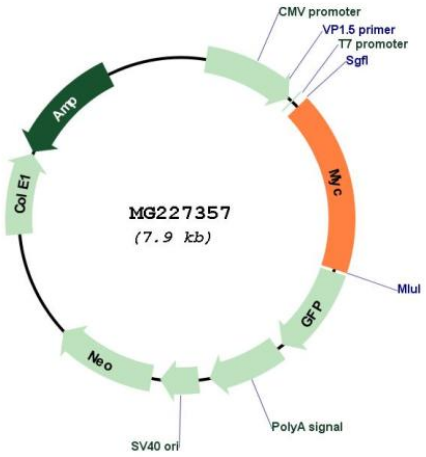
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	NM_001177352.1, NP_001170823.1
RefSeq Size:	2399 bp
RefSeq ORF:	1320 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]