

Product datasheet for **RG201241**

n-Myc (MYCN) (NM_005378) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	n-Myc (MYCN) (NM_005378) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	n-Myc
Synonyms:	bHLHe37; MODED; N-myc; NMYC; ODED
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG201241 representing NM_005378
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGAGCTGCTCCACGTCCACCATGCCGGGCATGATCTGCAAGAACCAGACCTCGAGTTTGACTCGC
 TACAGCCCTGTTCTACCGGACGAAGATGACTTCTACTTCGGCGCCCCGACTCGACCCCCCGGGGA
 GGACATCTGGAAGAAGTTTGAGCTGCTGCCACGCCCCGCTGTCGCCAGCCGTTGGCTTCGCGGAGCAC
 AGCTCCGAGCCCCGAGCTGGGTACGGAGATGCTGCTTGAGAACGAGCTGTGGGCAGCCCGGCCGAGG
 AGGACGCGTTCGGCTGGGGGACTGGGTGGCCTACCCCCAACCCGGTCATCCTCCAGGACTGCATGTG
 GAGCGCTTCTCCGCCCGGAGAAGCTGGAGCGCGCCGTGAGCGAGAAGCTGCAGCACGGCCGGGGCCG
 CCAACCGCGGTTCCACCGCCAGTCCCGGGAGCCGGCGCCGAGCCCTGCGGGTCCGGGCACGGCC
 GGGCTGCGGGAGCCGGCCGGGGCCGCCCTGCCCGGAGCTCGCCACCCGGCCCGCGAGTGCCT
 GGATCCCGCGTGGTCTTCCCTTTCCTGTAACAAGCGCGAGCCAGCGCCGTCGCCGACGCCCGGCC
 AGTGCCCCCGCGCGGGCCCTGCGGTGCGCTCGGGGGCGGGTATTGCCGCCCCAGCCGGGGCCCCGGGG
 TCGCCCTCCGCGCCAGGCGGCCGACAGACCAGCGCGCGGACCAAGGCCCTCAGTACCTCCGAGA
 GGACACCTGAGCGATTAGATGATGAAGATGATGAAGAGGAAGATGAAGAGGAAGAAATCGACGTGGT
 ACTGTGGAGAAGCGCGTTCCTCCTCCAACACCAAGGCTGTACCCACATTCACCATCACTGTGCGTCCCA
 AGAACGACGCCCTGGGTCCCGGGAGGGCTCAGTCCAGCGAGTGCCTCAAACGATGCCTTCCATCCA
 CCAGCAGCACAATATGCCGCCCTCTCCCTACGTGGAGAGTGGAGTGCACCCCCACAGAAGAAGATA
 AAGAGCGAGGCGTCCCCACGTCCGCTCAAGAGTGTATCCCCCAAAGGTAAGAGCTTGAGCCCCGAA
 ACTCTGACTCGGAGGACAGTGGCGTGCAGAAACCACAACATCCTGGAGCGCCAGCGCCGCAACGACT
 TCGGTCCAGTCTTCTCACGCTCAGGACCACTGCCGGAGTTGGTAAAGAATGAGAAGGCCGCAAGGTG
 GTCATTTTAAAAAGGCCACTGAGTATGTCCACTCCCTCCAGGCCGAGGAGCACCAGCTTTTGTGGAAA
 AGGAAAAATTGCAGGCAAGACAGCAGCAGTTGCTAAAGAAAATTGAACACGCTCGGACTTGC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201241 representing NM_005378
 Red=Cloning site Green=Tags(s)

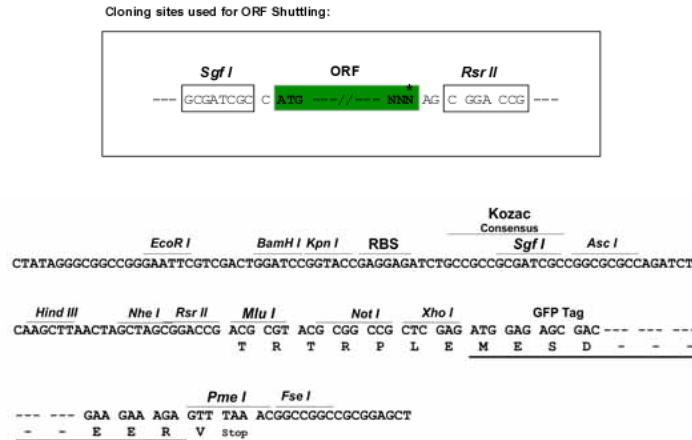
MPSCSTSTMPGMICKNPDLFDSLQPCFYDDEDFYFGGPDSTPPGEDIWKKFELLPTPPLSPSRGFAEH
 SSEPPSWVTEMLLENELWGSPAEDAFGLGGLGGLTPNPVILQDCMWSGFSAREKLERAVSEKLQHGRGP
 PTAGSTAQSPGAGAASPAGRHGGAAGAGRAGAALPAELAHAAECVDPVAVVFPVVKREPAPVPAAPA
 SAPAAGPAVASGAGIAAPAGAPGVAPPRPGGRQTSGGDHKLSTSGEDTLDSDDEDEDEEEDV
 TVEKRRSSNTKAVTTFTITVRPKNAALGPGRAQSSELILKRCLPIHQHNYAAPSYPVESEDAPPQKKI
 KSEASPRPLKSVIPPKAKSLSPRNSDESERRRNHNILERQRRNDLRSSFLTLRDHVPELVKNEKAAKV
 VILKKATEYVHSLQAEHQLLLEKEKLQARQQQLLKKIEHARTC

SGP**TRRRLE** - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_005378

ORF Size: 1392 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

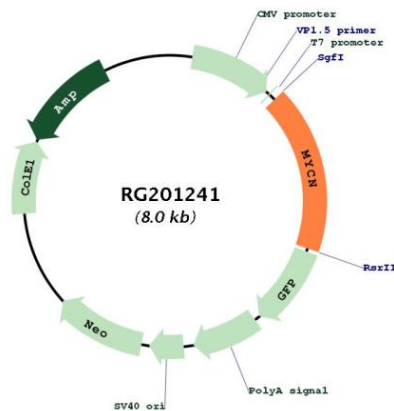
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_005378.6](#)

RefSeq Size:	2613 bp
RefSeq ORF:	1395 bp
Locus ID:	4613
UniProt ID:	P04198
Cytogenetics:	2p24.3
Domains:	HLH, Myc_N_term
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	This gene is a member of the MYC family and encodes a protein with a basic helix-loop-helix (bHLH) domain. This protein is located in the nucleus and must dimerize with another bHLH protein in order to bind DNA. Amplification of this gene is associated with a variety of tumors, most notably neuroblastomas. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2014]

Product images:



Circular map for RG201241