

## Product datasheet for **RC201241**

### 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:	Myc-DDK
Symbol:	n-Myc
Synonyms:	bHLHe37; MODED; N-myc; NMYC; ODED
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC201241 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGAGCTGCTCCACGTCCACCATGCCGGGCATGATCTGCAAGAACCAGACCTCGAGTTTGACTCGC  
 TACAGCCCTGTTCTACCGGACGAAGATGACTTCTACTTCGGCGGCCCGACTCGACCCCGGGGGA  
 GGACATCTGGAAGAAGTTTGAGCTGCTGCCACGCCCGCTGTCGCCAGCCGTTGCTCGGGAGCAC  
 AGCTCCGAGCCCGAGCTGGGTACGGAGATGCTGCTTGAGAACGAGCTGTGGGCAGCCCGGCCGAGG  
 AGGACGCGTTCGGCTGGGGGACTGGGTGGCCTACCCCAACCCGGTCACTCCAGGACTGCATGTG  
 GAGCGCTTCTCCGCCGCGAGAAGCTGGAGCGCGCCGTGAGCGAGAAGCTGCAGCACGGCCGGGCGC  
 CCAACCGCGGTTCCACCGCCAGTCCCGGGAGCCGGCGCCAGCCCTGCGGGTCCGGGCACGGCG  
 GGGCTGCGGGAGCCGGCCGGGGGCCCTGCCCGCGAGCTCGCCACCCGGCCCGGAGTGCCT  
 GGATCCCGCGTGGTCTTCCCTTTCCTGTAACAAGCGCGAGCCAGCGCCGTGCCCGAGCCCGGCC  
 AGTGCCCGCGCGGGCCCTGCGGTGCGCTCGGGGGCGGGTATTGCCCGCCAGCCGGGGCCCGGGG  
 TCGCCCTCCGCGCCAGGCGGCCAGACCAGCGCGCGACCAAGGCCCTCAGTACCTCCGAGA  
 GGACACCTGAGCGATTAGATGATGAAGATGATGAAGAGGAAGATGAAGAGGAAGAAATCGACGTGGT  
 ACTGTGGAGAAGCGGCTTCTCCTCCAACACCAAGGCTGTACCCACATTCACCATCACTGTGCGTCCCA  
 AGAACGCAGCCCTGGGTCCCGGGAGGGCTCAGTCCAGCGAGTGCCTCAAACGATGCCTTCCATCCA  
 CCAGCAGCAACTATGCCGCCCCCTCTCCTACGTGGAGAGTGGAGTGCACCCACAGAAGAAGATA  
 AAGAGCGAGGCGTCCCGCGTCCGCTCAAGAGTGTATCCCCCAAGGTAAGAGCTTGAGCCCGGAA  
 ACTCTGACTCGGAGGACAGTGGCGTGCAGAAACCACAACATCTGGAGCGCCAGCCCGCAACGACCT  
 TCGGTCCAGCTTCTCACGCTCAGGACCAGTGCCTGGAGTTGGTAAAGAATGAGAAGGCCCAAGGTG  
 GTCATTTTAAAAAGCCACTGAGTATGCCACTCCCTCCAGGCCGAGGAGCACCAGCTTTTGTGGAAA  
 AGGAAAAATTGCAGGCAAGACAGCAGCAGTTGCTAAAGAAAATTGAACACGCTCGGACTTGC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>RC201241 protein sequence  
 Red=Cloning site Green=Tags(s)

MPS CSTSTMPGMICKNPDLEFDSLQPCFYDDEDFYFGGPDSTPPGEDIWKKFELLPTPPLSPSRGFAEH  
 SSEPPSWVTEMLLENELWGSPAEDAFGLGGLGGLTPNPVILQDCMWSGF SAREKLERAVSEKLQHGRGP  
 PTAGSTAQSPGAGAA SPAGRGHGAAGRAGAALPAELAHPAECVDP AVVFPVFNKREPAPVPAAPA  
 SAPAAGPAVASGAGIAAPAGAPGVAPPRPGGRQTSGGDHKALSTSGEDTLDSDDEDEDEEIDVV  
 TVEKRRSSNTKAVTTFTITVRPKNAALGPGRAQSSELILKRCLPIHQHNYAAPSPYVESEDAPPQKKI  
 KSEASPRPLKSVIPPKAKSLSPRNSDSEDSERRRNHNILERQRRNDLRSSFLTLRDHVPPELVKNEKAAKV  
 VILKKATEYVHSLQAEHQLLLEKEKLQARQQQLLKKIEHARTC

**SGP**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6222\\_b08.zip](https://cdn.origene.com/chromatograms/mk6222_b08.zip)

**Restriction Sites:**

Sgfl-RsrII

Cloning Scheme:



ACCN: NM\_005378

ORF Size: 1392 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_005378.6](#)

RefSeq Size: 2736 bp

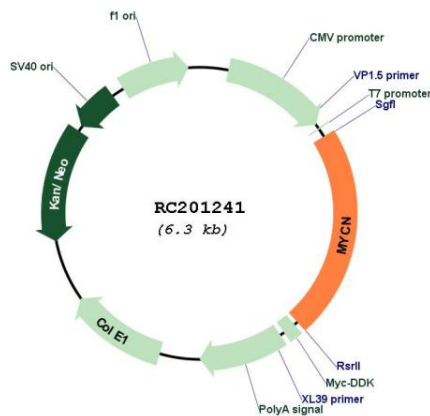
RefSeq ORF: 1395 bp

Locus ID: 4613

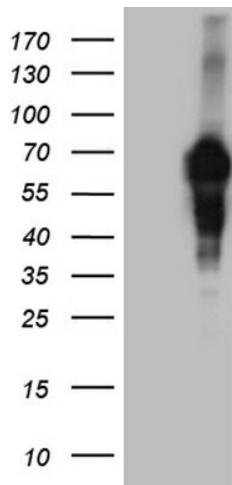
UniProt ID: [P04198](#)  
 Cytogenetics: 2p24.3  
 Domains: HLH, Myc\_N\_term  
 Protein Families: Druggable Genome, Transcription Factors  
 MW: 49.6 kDa

**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]

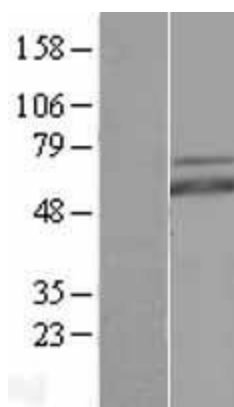
**Product images:**



Circular map for RC201241



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MYCN (Cat# RC201241, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MYCN (Cat# [TA809345])(1:2000). Positive lysates [LY417334] (100ug) and [LC417334] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417334]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201241 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).