

Product datasheet for **RC402784**

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

Product data:

Product Type:	Mutant ORF Clones
Product Name:	n-Myc (MYCN) (NM_005378) Human Mutant ORF Clone
Mutation Description:	R373X
Affected Codon#:	373
Affected NT#:	1117
Nucleotide Mutation:	MYCN Mutant (R373X), Myc-DDK-tagged ORF clone of Homo sapiens v-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian) (MYCN) as transfection-ready DNA
Effect:	Feingold syndrome
Symbol:	MYCN
Synonyms:	bHLHe37; MODED; N-myc; NMYC; ODED
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_005378
ORF Size:	1116 bp
Restriction Sites:	Sgfl-RsrII



[View online »](#)

ORF Nucleotide Sequence:

>RC402784 representing NM_005378
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGAGCTGCTCCACGTCCACCATGCCGGGCATGATCTGCAAGAACCAGACCTCGAGTTTGACTCGC
 TACAGCCTGCTTCTACCCGGACGAAGATGACTTCTACTTCGGCGGCCCGACTCGACCCCGGGGGA
 GGACATCTGGAAGAAGTTTGAGCTGCTGCCACGCCCCCGCTGTCGCCAGCCGTGGCTTCGCGGAGCAC
 AGCTCCGAGCCCCGAGCTGGGTACGGAGATGCTGCTTGAGAACGAGCTGTGGGGCAGCCCGGGCAGG
 AGGACGCGTTCGGCCTGGGGGACTGGGTGGCCTACCCCCAACCCGGTCCATCTCCAGGACTGCATGTG
 GAGCGGCTTCCGCCCGGAGAAGCTGGAGCGCGCCGTGAGCGAGAAGCTGCAGCACGGCCCGGGGCC
 CCAACCGCCGGTCCACCGCCAGTCCCGGGAGCCGGCGCCAGCCCTGCGGGTCCGGGGCAGCGCC
 GGGCTGCGGGAGCCGGCCGCGCGGGGGCCCTGCCCGCGAGCTCGCCACCCGGCCCGGAGTGCCT
 GGATCCCGCCGTGGTCTTCCCTTTCCCGTGAACAAGCGGAGCCAGCGCCCGTCCCGCAGCCCGGCC
 AGTGCCCCGGCGCGGGCCCTGCGGTGCGCTCGGGGGCGGGTATTGCCGCCAGCCGGGGCCCGGGG
 TCGCCCTCCGCGCCAGGCGGCCGCCAGACCAGCGGGCGGACCAAGGCCCTCAGTACCTCCGGAGA
 GGACACCTGAGCGATTAGATGATGAAGATGATGAAGAGGAAGATGAAGAGGAAGAAATCGACGTGGTC
 ACTGTGGAGAAGCGGCTTCTCCTCCAACACCAAGGCTGTCACCACATTCACCATCACTGTGCGTCCCA
 AGAACGAGCCCTGGGTCCCGGGAGGGCTCAGTCCAGCGAGCTGATCCTCAAACGATGCCTTCCCATCCA
 CCAGCAGCACAACTATGCCGCCCTCTCCCTACGTGGAGAGTGAGGATGCACCCACAGAAGAAGATA
 AAGAGCGAGGCGTCCACGTCGCTCAAGAGTGTATCCCCCAAAGGCTAAGAGCTTGAGCCCC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGTTTAA

Protein Sequence:

>RC402784 representing NM_005378
 Red=Cloning site Green=Tags(s)

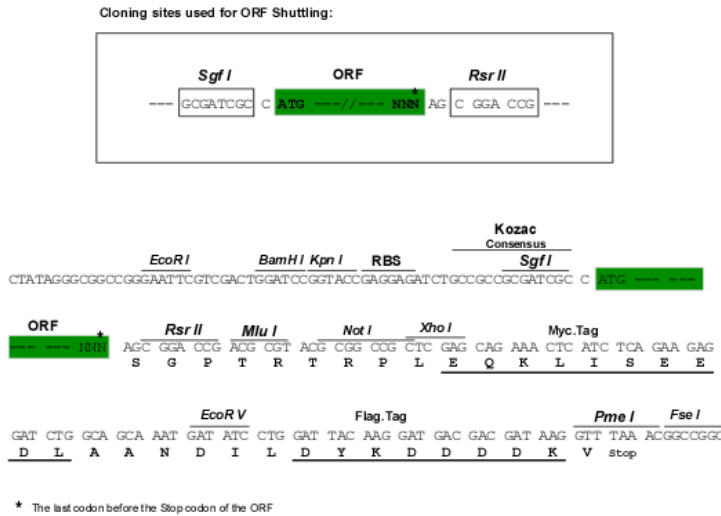
MPSCSTSTMPGMICKNPDLFDSLQPCFYDDEDFYFGGPDSTPPGEDIWKKFELLPTPPLSPSRGFAEH
 SSEPPSWVTEMLLENELWGSPAEEAFGLGGLGGLTPNPVILQDCMWSGFSAEKLERAVSEKLQHGRGP
 PTAGSTAQSPGAGAASPAGRHGGAAGAGRAGAALPAELAHAAECVDPVAVVFPFVVKREPAPVPAAPA
 SAPAAGPAVASGAGIAAPAGAPGVAPPRPGGRQTSGGDHKALSTSGEDTLDSDDEDEDEEEDEEIDVV
 TVEKRRSSNTKAVTTFITVVRPKNAALGPGRAQSSELILKRCLPIHQHNYAAPSPYVESEDAPPQKKI
 KSEASPRPLKSVIPKAKSLSP

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



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).

RefSeq:

[NP_005369](#)

RefSeq Size:

1116 bp

RefSeq ORF:

1395 bp

Locus ID:

4613

Cytogenetics:

2p24.3

Domains:

HLH, Myc_N_term

Protein Families:

Druggable Genome, Transcription Factors

MW:

40.9 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]