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Product datasheet for RC402783

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:	R322X
Affected Codon#:	322
Affected NT#:	964
Nucleotide Mutation:	MYCN Mutant (R322X), 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:	963 bp
Restriction Sites:	SgfI-RsrII

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ORF Nucleotide Sequence:

>RC402783 representing NM_005378
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGAGCTGCTCCACGTCCACCATGCCGGGCATGATCTGCAAGAACCCAGACCTCGAGTTTGACTCGC
TACAGCCCTGCTTCTACCCGGACGAAGATGACTTCTACTTCGGCGGCCCCGACTCGACCCCCCCGGGGGA
GGACATCTGGAAGAAGTTTGAGCTGCTGCCCACGCCCCCGCTGTCGCCCAGCCGTGGCTTCGCGGAGCAC
AGCTCCGAGCCCCCGAGCTGGGTCACGGAGATGCTGCTTGAGAACGAGCTGTGGGGCAGCCCGGCCGAGG
AGGACGCGTTCGGCCTGGGGGGACTGGGTGGCCTCACCCCCAACCCGGTCATCCTCCAGGACTGCATGTG
GAGCGGCTTCTCCGCCCGCGAGAAGCTGGAGCGCGCCGTGAGCGAGAAGCTGCAGCACGGCCGCGGGCCG
CCAACCGCCGGTTCCACCGCCCAGTCCCCGGGAGCCGGCGCCGCCAGCCCTGCGGGTCGCGGGCACGGCG
GGGCTGCGGGAGCCGGCCGCGCCGGGGCCGCCCTGCCCGCCGAGCTCGCCCACCCGGCCGCCGAGTGCGT
GGATCCCGCCGTGGTCTTCCCCTTTCCCGTGAACAAGCGCGAGCCAGCGCCCGTGCCCGCAGCCCCGGCC
AGTGCCCCGGCGGCGGGCCCTGCGGTCGCCTCGGGGGCGGGTATTGCCGCCCCAGCCGGGGCCCCGGGGG
TCGCCCCTCCGCGCCCAGGCGGCCGCCAGACCAGCGGCGGCGACCACAAGGCCCTCAGTACCTCCGGAGA
GGACACCCTGAGCGATTCAGATGATGAAGATGATGAAGAGGAAGATGAAGAGGAAGAAATCGACGTGGTC
ACTGTGGAGAAGCGGCGTTCCTCCTCCAACACCAAGGCTGTCACCACATTCACCATCACTGTGCGTCCCA
AGAACGCAGCCCTGGGTCCCGGGAGGGCTCAGTCCAGCGAGCTGATCCTCAAA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

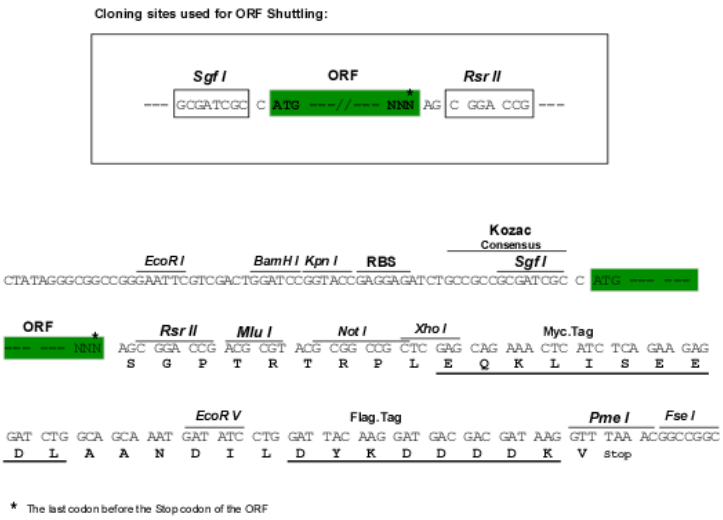
>RC402783 representing NM_005378
Red=Cloning site Green=Tags(s)

MPSCSTSTMPGMICKNPDLEFDSLQPCFYPDEDDFYFGGPDSTPPGEDIWKKFELLPTPPLSPSRGFAEH
SSEPPSWVTEMLLENELWGSPAEEDAFGLGGLGGLTPNPVILQDCMWSGFSAREKLERAVSEKLQHGRGP
PTAGSTAQSPGAGAASPAGRGHGGAAGAGRAGAALPAELAHPAAECVDPAVVFPFPVNKREPAPVPAAPA
SAPAAGPAVASGAGIAAPAGAPGVAPPRPGGRQTSGGDHKALSTSGEDTLSDSDDEDDEEEDEEEEIDVV
TVEKRRSSSNTKAVTTFTITVRPKNAALGPGRAQSSELILK

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-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: 963 bp

RefSeq ORF: 1395 bp

Locus ID: 4613

Cytogenetics: 2p24.3

Domains: HLH, Myc_N_term

Protein Families: Druggable Genome, Transcription Factors

MW: 35.3 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]