

Product datasheet for **SC116780**

n-Myc (MYCN) (NM_005378) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	n-Myc (MYCN) (NM_005378) Human Untagged Clone
Tag:	Tag Free
Symbol:	n-Myc
Synonyms:	bHLHe37; MODED; N-myc; NMYC; ODED
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116780 sequence for NM_005378 edited (data generated by NextGen Sequencing)

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ATGCCGAGCTGCTCCACGTCCACCATGCCGGGCATGATCTGCAAGAACCCAGACCTCGAG
TTTGACTCGCTACAGCCCTGCTTCTACCCGGACGAAGATGACTTCTACTTCGGCGGCCCC
GACTCGACCCCCCGGGGGAGGACATCTGGAAGAAGTTTGAGCTGCTGCCACGCCCCCG
CTGTGCGCCAGCCGTGGCTTCGCGGAGCACAGCTCCGAGCCCCGAGCTGGGTACGGAG
ATGCTGCTTGAGAACGAGCTGTGGGGCAGCCCGCCGAGGAGGACGCGTTCCGGCTGGGG
GGACTGGGTGGCTCACCCCAACCCGGTCATCCTCCAGGACTGCATGTGGAGCGGCTTC
TCCGCCCGCAGAGAAGCTGGAGCGCGCCGTGAGCGAGAAGCTGCAGCACGGCCGCGGGCCG
CCAACCGCCGGTTCACCGCCAGTCCCGGGAGCCGGCGCCGAGCCCTGCGGGTTCGC
GGGCACGGCGGGCTGCGGGAGCNGGCCGCGCCNNNNNNNNCTGCCCGCGAGCTCGCC
CACCCGGCCGCGAGTGCCTGGATCCCGCCGTGGTCTTCCNNNNNNNGTGAACAAGCGC
GAGCCAGCGCCCTGCCCGAGCCCGGCCAGTCCCGCGCGCGGGCCCTGCGGTTCGCC
TCGGGGGGGGATTGCCGCCAGCCGGGGCCCGGGGGTTCGCCCTCCGCGCCAGGC
GGCCGCCAGACCAGCGGGCGACCAAGGCCCTCAGTACCTCCGGAGAGGACACCCTG
AGCGATTGATGATGAAGATGATGAAGAGGAAGATGAAGAGGAAGAAATCGACGTGGTC
ACTGTGGAGAAGCGGCTTCTCCTCAACACCAAGGCTGTACCCACATTCACCATCACT
GTGCGTCCCAAGAACGCAGCCCTGGGTCCCGGAGGGCTCAGTCCAGCGAGCTGATCCTC
AAACGATGCCCTCCATCCACAGCAGCACAATATGCCGCCCTCTCCCTACGTGGAG
AGTGAGGATGCACCCCCACAGAAGAATAAAGAGCGAGGCGTCCCCACGTCCGCTCAAG
AGTGTCATCCCCCAAAGGCTAAGAGCTTGAGCCCCGAAACTCTGACTCGGAGGACAGT
GAGCGTCGAGAAACACAACATCCTGGAGCGCCAGCGCCGCAACGACCTTCGGTCCAGC
TTTCTCACGCTCAGGGACCACGTGCCGGAGTTGGTAAAGAATGAGAAGGCCGCAAGGTG
GTCAATTTGAAAAAGGCCACTGAGTATGTCCACTCCCTCCAGGCCGAGGACACCAGCTT
TTGCTGAAAAAGAAAAATTGCAGGCAAGACAGCAGCAGTTGCTAAAGAAAATTGAACAC
GCTCGGACTTGCTAG
    
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Clone variation with respect to NM_005378.4
 504 c=>n;514 g=>n;515 g=>n;516 g=>n;517 g=>n;518 c=>n;519 c=>n;520 g=>n;521 c=>n;522 c=>n;582 c=>n;583 t=>n;584 t=>n;585 t=>n;586 c=>n;587 c=>n;588 c=>n

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005378 unedited

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ATTAGGTCTACGACTCACTATAGCGGCNCGCAATCGGCACGAGGGTTCGGTTGCAGTGT
TGGAGGTTCGGCGCCGGCCCCCGCTTCCGCGCCCCCACGGGAAGGAAGCACCCCCGGTA
TTAAAACGAACGGGGCGGAAAGAAGCCCTCAGTCGCGCCGGGGAGGCGAGCCGATGCCG
AGCTGCTCCACGTCCACCATGCCGGGCATGATCTGCAAGAACCCAGACCTCGAGTTTGAC
TCGCTACAGCCCTGCTTCTACCCGGACGAAGATGACTTCTACTTCGGCGGCCCCGACTCG
ACCCCCCGGGGAGGACATCTGGAAGAAGTTTGAGCTGCTGCCACGCCCCCGCTGTCG
CCCAGCCGTGGCTTCGCGGAGCACAGCTCCGAGCCCCGAGCTGGGTACGGAGATGCTG
CTTGAGAACGAGCTGTGGGGCAGCCCGCCGAGGAGGACGCGTTCCGGCTGGGGGACTG
GGTGGCTCACCCCCAACCCGGTCATCCTCCAGGACTGCATGTGGAGCGGCTTCTCCGCC
CGCGAGAAGCTGGAGCGCGCCGTGAGCGAGAAGCTGCAGCACGGCCGCGGGCCGCAACC
GCCGGTTTACCGCCAGTCCCCGGGAGCCGGCGCCGCCAGCCCTGCGGGTTCGCGGGCA
CGGTGGGGCTGCGGGAGCCGGCCGCGGGGGCCGACCTGCCCGCGAGCTCGCCACCC
GGCCCGGAGTGCAGGATCCCGCGAGGTCTTCCCTTTCTGTGAACAAGCGCGAGCC
CGCGCCCGTGCAGCATCCCGCCATGCCCGCGCGGGCCCTGCGCGCCTTGGGG
GCGGGTTATGACGCCAGCCGGGCCCGAGGGTTGCCCTCCCTGCCAGCGGCCGCAA
AAATCGTCGGCGACCCAGGCCCTTGATCACTCGGCGAAGAACAATTGAGCGCATCTTAG
CTCATATATACACGCAACCCGAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005378 unedited NTTACCTTGGACGCGCCGCATTCTANGATCGAGGTTTTTTTTTTTTTTTTTTTTTTTGC ATCATTTAATTTTAAGCTATTTATTTTCATAAACATGAGGTATTTCAAAGTGCTATAAGA TGCAGCACTAAATATATACATTTTGAAGAAATTAACACAGAAGTTTGCATTTACCCAGT TCTATGCACCAACATGAACAAATACATTAACAGGAAGAAACAGGCTAGGAAAAAGGCAT ATATATATAGTAAATTTCTTTACAAAAGTTTCTTAGTTCAAAAAGTGATAAAGTAATATC TACTCAAAAAGTTTCACTCACTATTTTCATACGAAAATATAAGTATCAAATTTAGTTATGT ATCAGCGTCATACTAAAGTATACAGGCAGTGTAAAGAAATTAAGTACAGTACATAACAGAGAT TAACAATATATTTGTATACAAAACATGCTCCTCAAACATTGAGGTATTATTACAGTACTT AGGTATGAACTTCCAGTCTAATACTGGCCGCAAAAGCCACCTCTCATTACCCAGGATGTA TACAAAAGGCGGATGTGTCAATGGTATTTACAGAAATGTTCCCCAGGGTATCAAATGGC AAACCCCTTATGTGGCATCTGCTGGAAGTTAAGCACCATTTAAAAAGAAGGAATGACTT TCTGTTGTTTGGAACTTGAACACACAAGGTGACTTCAACAGCCCCAGAGGCTCCCAAC CATCACCAACGTTTAGCGCTGTCATGGAGGTGAGGTGGAGGAGGCTGCAAGGCCACCCAG CATCCTGGGATGCAGGCTCTCCAAGGTCCAGCAGAACCACACTGGTGGTCTACTGGC CACCCAGAGCCGACTCGACAGGGGAACGATTTGAAAGAAACCAACATTCTAAAGGCACA CCATGTTGGTGTAAAAAATACAAATGTGCAAACGGCAGTGACTGCCACTT
Restriction Sites:	NotI-NotI
ACCN:	NM_005378
Insert Size:	2600 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
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:	<ol style="list-style-type: none"> 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_005378.4 , NP_005369.2
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:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks segment 1b in the 5' region, compared to variant 1. This variant includes two open reading frames; the isoform 1 represented by this RefSeq is translated from the downstream open reading frame. This transcript and variant 1 encode the same isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>