

Product datasheet for **SC107222**

Neurogenin 2 (NEUROG2) (NM_024019) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurogenin 2 (NEUROG2) (NM_024019) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neurogenin 2
Synonyms:	Atoh4; bHLHa8; Math4A; ngn-2; NGN2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024019, the custom clone sequence may differ by one or more nucleotides

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ATGTTTCGTCAAATCCGAGACCTTGGAGTTGAAGGAGGAAGAGGACGTGTTAGTGCTGCTCGGATCGGCCT
CCCCGCCTTGCGGCCCTGACCCCGCTGTATCCAGCGCCGACGAAGAAGAGGAGGAGGAGCCGGGCGC
GTCAGGCGGGGCGCTCGGCAGCGCGGGGCTGAGGCCGGCAGGGGGCGGGGGCGGCGTGGCTGCGGGT
GCGGAGGGCTGCCGGCCCGCACGGCTGCTGGGTCTGGTACACGATTGCAAACGGCGCCCTCCCGGGCGC
GGGCCGTCTCCCGAGGCGCAAGACGGCCGAGACGGTGCAGCGCATCAAGAAGACCCGTAGACTGAAGGC
CAACAACCGCGAGCGAAACCGCATGCACAACCTCAACCGGCACTGGACGCGCTGCGCGAGGTGCTCCCC
ACGTTCCCGAGGACGCCAAGCTCACCAAGATCGAGACCCTGCGCTTCGCCACAACCTACATCTGGGCAC
TCACCGAGACCCTGCGCCTGGCGGATCACTGCGGGGGCGCGGGGGGGCCTGCCGGGGCGCTCTTCTC
CGAGGCAGTGTGCTGAGCCCGGAGGAGCCAGCGCCGCCCTGAGCAGCAGCGGAGACAGCCCTCGCCC
GCCTCCACGTGGAGTTGCACCAACAGCCCCGCGCGTCTCCTCCGTGTCTCCAATTCCACCTCCCCCT
ACAGCTGCACTTATCGCCCCCAGCCCCGGCGGGTCCAGACATGGACTATTGGCAGCCCCACCTCCCGA
CAAGCACCGCTATGCACCTCACCTCCCCATAGCCAGGGATTGTATCTAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024019 unedited
 TAGGGCGGCCGGAATTCGGCACGAGGGCTGAACCACAAGCAGCTTCGCGTAACTGGAG
 TGCTGGGAGTCGCGTGCCAGGAGCCGCACGGCCAGGGACTGACTGACAGACAGACACGC
 ACCACCACCAACACACAGACCCGGGCGGGCCGCCGCCGCCGGCCGGGGCTTTGG
 CAAACTCGCCGGTCGCAGAGGTCCCCCGCGGAGCTGCCACAGTAGCCCGGGCTTGCA
 GCTTTACGCCGGGCAAGGACCCGGCGCTGCGCTCGCAGCTGCGCGGAGATTCCCGGCA
 CAGGCCAAAGTCACAGCAACGCTGAGGCACAGTTAGAGCCAATAAGATGTTTCGTCAAAT
 CCGAGACCTTGGAGTTGAAGGAGGAAGAGGACGTGTTAGTGCTCGGATCGGCCTCCC
 CCGCCTTGGCGGCCCTGACCCCGCTGTCATCCAGCGCCGACGAAGAAGAGGAGGAGGAGC
 CGGGCGCGTCAGGCGGGGCGCTCGGCAGCGGGGGCTGAGGCCGGGAGGGGGCGCGGN
 GCGGCGTGGTGCGGGTGCGGAGGGTCCCGGCCGCACGGCTGCTGGTCTGGTACACG
 ATTGCAAACGGCCCTTCCCGGGCGGGCCGTCTCCGAGGGCCAGACGGCCGAGA
 CGGTGCAGCGCATCAAGAAGACCCGTAGACTGGAGGCCACAACCGCGAGCGATACCGCA
 TGCANCACCTCACGCCACTGGACGCGCTGCGCGAGGTGCTCCCCACGTTCCCGGAGG
 ACGCCAAGCTCACCAGATCGAGACCCTGCGCTTNCGCCACACTACATNTGGGCACTACC
 GAGACCCTGCGCCTGCCGATACTGCNGGGGCGGCGGGGGGCTGCCGGGGCGCTC
 TTCTTCGAGGCAGTGTGCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024019 unedited
 TAACTATGGAACCGGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTATGAAAAAT
 TAGATAGTTTATTTATAGTTTAATCACAANAACAACCTTCTTGTCTTCAAGATGTAAT
 ACATACTAGAATAAACTCTGTAGAATATACAAAAATACATATTTCCCATGAAAAATTT
 CTTTATAATAAATAAGAAGGGAACACGTGTGTGGCTGATCCGATAATGCTCCGTGTCTGC
 TTAGGTTTTCAGACTGTTGATTTATTTTTAATCTTTGAAAGAATGGGGAGTTCCTTCT
 CCCCTAAAAGGTCGAAATAAATAATACATGAGGCAATCCTCCCTCCTGATTTTTCCCTTT
 TCCTCCACATTTTTCTTTTGATAGAGAGTTCAGCCTAAATTTCCACGCTTGCATTCAAT
 CATTACAAAGCCTACAAATTATACAATGACTTCTAACCTGCCCTCTAACAAAACAAGTT
 TTTTCCCTTATAAATCATAAGAGACAGATGGCAAAATGGGGAAGAAAAAGGAAAGAGA
 AGGACAGGACAATAGGCATTGTGACGAATCTGGGAAACAGAACAAGTGCACATCAGAGA
 GGAAGTTTGGTTTGACAGGTGAAATCCCACAGCCTGCAGACAGCAATGGGAATAAAGC
 AGATGCCAGCCATTGCAAATCTGTGGATAATATTATTANCCAGCAAATCATTAGATGCT
 AAGATACATTTCTTTCTACTCGACATTAACATCTCTATGTAGAAAGCAAGGTGAAGAGAT
 CACAGGACCAGTTGCATTCCCCTGTGAGATCACACGAACTGCACCAAGTCTTTTCGCGTTA
 AAGAGAAAGGGAGGAGCGTCAGTTTCGCTCTGCAAACCTTTAGATATGCACCATCATCTC
 TTCCAGGTCTTTTTCTGCTCAGGAGGCCCCCAACGCCACCCTGG

Restriction Sites:

NotI-NotI

ACCN:

NM_024019

Insert Size:

2400 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:

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_024019.2](#), [NP_076924.1](#)

RefSeq Size: 2370 bp

RefSeq ORF: 819 bp

Locus ID: 63973

UniProt ID: [Q9H2A3](#)

Cytogenetics: 4q25

Protein Families: Transcription Factors

Gene Summary: This gene encodes a neural-specific basic helix-loop-helix (bHLH) transcription factor that can specify a neuronal fate on ectodermal cells and is expressed in neural progenitor cells within the developing central and peripheral nervous systems. The protein product of this gene also plays a role in the differentiation and survival of midbrain dopaminergic neurons. [provided by RefSeq, Apr 2012]