

Product datasheet for **SC304889**

Neurogenin3 (NEUROG3) (NM_020999) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurogenin3 (NEUROG3) (NM_020999) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neurogenin3
Synonyms:	Atoh5; bHLHa7; Math4B; NGN-3; ngn3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_020999 edited
 GCCCTTCTCTCTATTCTTTTGCGCCGGTAGAAAAGGATGACGCCTCAACCCTCGGGTGCCG
 CCACTGTCCAAGTGACCCGTGAGACGGAGCGGTCTTCCCCAGAGCCTCGGAAGACGAAG
 TGACCTGCCCCACGTCCGCCCGCCAGCCCACTCGCACACGGGGAAGTGCAGAGAGG
 CGGAAGAGGGAGGCTGCCGAGGGGCCCGAGGAAGCTCCGGGCACGGCGGGGGACGCA
 GCCGGCCTAAGAGCGAGTTGGCACTGAGCAAGCAGCGACGGAGTCGGCGAAAGAAGGCCA
 ACGACCGCGAGCGCAATCGAATGCACAACCTCAACTCGGCACTGGACGCCCTGCGCGGTG
 TCCTGCCACCTTCCCAGACGACGCGAAGCTCACCAAGATCGAGACGCTGCGCTTCGCCC
 ACAACTACATCTGGGCGTGACTCAAACGCTGCGCATAGCGGACCACAGTTGTACGCGC
 TGGAGCCCGCGCCGCACTGCGGGGAGCTGGGCAGCCAGGCGTTCCCCGGGGACT
 GGGGTCCCTCTACTCCCAGTCTCCCAGGCTGGCAGCCTGAGTCCC GCCGCGTCTGCTGG
 AGGAGCGACCCGGCTGCTGGGGCCACCTCTTCCGCTGCTTGAGCCCAGGCAGTCTGG
 CTTTCTCAGATTTTCTGTGAAAGGACCTGTCTGTGCTGGGCTGTGGGTGCTAAGGGTAA
 GG



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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_020999 unedited
GTCAGGTCGAATATTGTATACGACTCATATAGGCGGCCGCGNAATCGCCCTTCTCTCTAT
TCTTTTGGCGCGGTAGAAAAGATGACGCCTCAACCCTCGGGTGCGCCCACTGTCCAAGTGA
CCCGTGAGACGGAGCGGTCTTCCCCAGAGCCTCGGAAGACGAAGTGACCTGCCCCACGT
TCCGCCCCGCCAGCCCCACTCGCACACGGGGAACTGCGCAGAGGCGGAAGAGGGAGGC
TGCCGAGGGGCCCGAGGAAGCTCCGGGCACGGCGGGGGACGCAGCCGGCCTAAGAGC
GAGTTGGCACTGAGCAAGCAGCGACGGAGTCGGCGAAAGAAGGCCAACGACCCGCGAGCGC
AATCGAATGCACAACCTCAACTCGGCACTGGACGCCCTGCGCGGTGTCTGCCACCTTC
CCAGACGACGCGAAGCTACCAAGATCGAGACGCTGCGCTTCGCCCACTACATCTGG
GCGCTGACTCANACGCTGCGCATAGCGGACCACAGCTTGTACGCGCTGGAGCCGCCGGCG
CCGCACTGCGGGGAGCTGGGCAGCCANGCGGTTCCCCGGNGACTGGGGTCCCTCTAC
TCCCCAGTCTCCAGGCTGGCAGCCTGAGTCCCGCGCGTCTGTTGAGAGCGACCCGGG
CTGCTGGGGGCCACCTNCTTCGCTGTTGAGCCCCAGCAGTCTGGCTTCTCAGATTTT
CTGTGAAAAGACCTGTCTGTCGCTGGGCTGTGGGTGCTAAGGGTAAGGAAGGGCGAATTC
AGATCTGGTACCGATATCAAGCTTGTGACTCTAGATTGCGGCCCGCGTCATAGCTGGTT
CCTGGACAGATCCCCGGGTGGCATCCCTGTGACCCTCCAGTGGCTCTTCTGGCCCTGN
AA
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3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_020999 unedited
CCATGGGGAATGGCACTNTCCAGNCCAGGNANGAGCACTGGGGNAGGGTCACAGGGATG
CCACCCGGGNATCTGGTTCAGGGAACAGCTATGACCGCGGCCGAATCTAGAGTCGACA
AGCTTGATATCGGTACCAGATCTGAATTCGCCCTTCTTACCCTTAGCACCCACAGCCA
GCGACAGACAGGTCCTTTCACAGAAAATCTGAGAAAGCCAGACTGCCTGGGCTAAGCAG
GCGGAAGAGGTGGCCCCAGCAGCCGGTCTGCTCCTCCAGCGACGCGGGGACTCAGG
CTGCCAGCCTGGGAGACTGGGGAGTAGAGGGACCCCCAGTCCCCGGGGAAACCGCCTGGG
CTGCCCAGCTCCCCGAGTGCAGCGCCGGCGGCTCCAGCGCGTACAAGCTGTGGTCCGCT
ATGCGCAGCGTTTGTAGTCAGCGCCAGATGTAGTTGTGGGCGAAGCGCAGCGTCTCGATC
TTGGTGAGCTTCGCGTCTGTTGGAAAGTGGGCAGGACACCGCGCAGGGCGTCCAGTGC
GAGTTGAGTTGTGATTGCGCTCGCGGTGTTGGCTTCTTTCGCCGACTCCGT
CGCTGCTTGTCTCAGTGCCAACTCGCTCTTAAGCCGGCTGCGTCCCCCGCGCGTGGCCGG
AGCTTNTCGGGGCCCTCGGCAGCCTCCCTCTTTCGCTCTGCGCAGTTCCTCCGCTGTG
CCAGTGGNGCTGGGCGGNGCGGACGTGNGGCAAGTCACTTCGTCTTCCGAGGCTCTGGGG
AAGGACGNTCGTCTCACGGTCACTTGGACAGTGGGCGCACCCGAAGGTTGAGGCGTCAT
CCTTT
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Restriction Sites:

Please inquire

ACCN:

NM_020999

Insert Size:

700 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>There are 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 1 amino acid.</p>
Components:	<p>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).</p>
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:	<p>NM_020999.2, NP_066279.2</p>
RefSeq Size:	<p>1167 bp</p>
RefSeq ORF:	<p>645 bp</p>
Locus ID:	<p>50674</p>
UniProt ID:	<p>Q9Y4Z2</p>
Cytogenetics:	<p>10q22.1</p>
Protein Families:	<p>ES Cell Differentiation/IPS</p>
Protein Pathways:	<p>Maturity onset diabetes of the young</p>
Gene Summary:	<p>The protein encoded by this gene is a basic helix-loop-helix (bHLH) transcription factor involved in neurogenesis. The encoded protein likely acts as a heterodimer with another bHLH protein. Defects in this gene are a cause of congenital malabsorptive diarrhea 4 (DIAR4).[provided by RefSeq, May 2010]</p>