

## Product datasheet for **SC107970**

### NEUROD4 (NM\_021191) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NEUROD4 (NM\_021191) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** NEUROD4  
**Synonyms:** ATH-3; ATH3; Atoh3; bHLHa4; MATH-3; MATH3  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_021191 edited  
ATGTCAAAACTTTTGTAAAATCCAAGGAGATGGGAGAGCTAGTCAACACACCATCCTGG  
ATGGATAAAGGTCTGGGCTCCCAAATGAGGTGAAGGAGGAAGAGAGCAGACCAGTACT  
TATGGGATGCTCAGCAGCTTAAGTGAAGAGCATGACAGTATTGAGGAAGAAGAAGAGAG  
GAAGAAGATGGGAGAAACCTAAGAGAAGGGTCCCAAGAAAAAAGATGACCAAAGCT  
CGCCTTGAGAGATTCAGGGCTCGAAGAGTCAAGGCTAATGCCAGAGAACGGACCCGGATG  
CATGGCCTGAATGACGCCCTGGATAACCTGAGGCGAGTCATGCCATGCTACTCTAAAACC  
CAAAAACCTTCCAAGATAGAGACTCTTAGACTGGCCAGGAACATATTTGGGCTTTATCT  
GAAGTCTGGAGACTGGCCAGACACCTGAAGGAAAGGCTTTGTGGAGATGCTGTGTA  
GGGCTCTCTCAGCCACAAGCAACCTGGTGGCTGGATGTCTCCAAGTGGCCCTCAGTCT  
GTCCTCCTGGAGAAGCACGAGGATAAATCTCCTATTTGTGACTCTGCCATCTCTGTCCAC  
AACTTCAACTATCAGTCTCCGGGCTTCTAGCCCTCCTTATGGTCATATGGAAACACAT  
CTCCTTCACTCAAGCCCAAGTATTCAAGAGTTTGGGAGAATCGTCCTTTGGGACCCAT  
CTGCCTGACTGCAGTACACCCCTTATGAGGGCCCACTCACTCCACCCCTGAGCATCAGT  
GGGAACCTCTCCTTGAAGCAAGTGGGTCTCCTGACCTAGAAAAATCCTACAGCTTCATG  
CCACATTACCCTTCTTCAAGTCTAAGCTCAGGGCATGTGCATTCAACTCCTTTTCAGGCT  
GGTACCCCGTATGATGTTCCCTATAGACATGTCCTATGATTCTACCCCATCATGGT  
ATTGGGACCAACTCAATACAGTCTTCACTGAGTGA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_021191 unedited CCGCGGAATTCGCACGAGGCCCGGTGGAATCTCTAAGAGGTAACAACCGGGTTGACATG GATCGCTGAAAGCGTCTCTTCTACCATCTGGATGGTCAGGGAGACTTGGCTTCTCTGACT GTCCTCTAAGACGCAGATTCACAGAGTTCACTCCAGGAACGGCCAGTGACCGAGAGTCTG GAAATGTCAAAAACCTTTGTAAAATCCAAGGAGATGGGAGAGCTAGTCAACACACCATCC TGGATGGATAAAGGTCTGGGCTCCAAAATGAGGTGAAGGAGGAAGAGAGCAGACCAGGT ACTTATGGGATGCTCAGCAGCTTAACTGAAGAGCATGACAGTATTGAGGAAGAAGAAGAA GAGGAAGAAGATGGGGAGAAACCTAAGAGAAGGGTCCCAAGAAAAGAAGATGACCAAA GCTCGCCTTGAGAGATTCAGGGCTCGAAGAGTCAAGGCTAATGCCAGAGAACGGACCCGG ATGCATGGCCTGAATGACGCCCTGGATAACCTGAGGCGAGTCATGCCATGCTACTCTAAA ACCCAAAACCTTCCAAGATAGAGACTCTTAGACTGGCCAGGAATATATTTGGGCTTTA TCTGAAGTCTGGAGACTGGCCAGACACCTGAAGGAAAGGCTTTGTGGAGATGCTGTGTA AGGGCTCTCTAGCCACNAGCAACCTGGTGGCTGGATGTCTTCACTGGGCCTTCAGTCTG TCCTTCTGCAGAAGCACGAGATAATCTNCTATGTGTGACTCTGCCATGTCTGTCCACACT TGACTAGAGTCTGCGGGCTCCTAACCTCCTATGTCATATGGAACCCATCTCCTGATTT AGCCCCAGTTTAAAAATTTGGGAGAACG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_021191
<b>Insert Size:</b>	3800 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_021191.1, NP_067014.1</u>
<b>RefSeq Size:</b>	1481 bp
<b>RefSeq ORF:</b>	996 bp
<b>Locus ID:</b>	58158
<b>UniProt ID:</b>	<u>Q9HD90</u>
<b>Cytogenetics:</b>	12q13.2

<b>Domains:</b>	HLH
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	Probably acts as a transcriptional activator. Mediates neuronal differentiation. Required for the regulation of amacrine cell fate specification in the retina (By similarity).[UniProtKB/Swiss-Prot Function]