

## Product datasheet for **SC116282**

### NEUROD2 (NM\_006160) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NEUROD2 (NM_006160) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEUROD2
Synonyms:	bHLHa1; DEE72; EIEE72; NDRF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006160, the custom clone sequence may differ by one or more nucleotides

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ATGCTGACCCGCCTGTTTCAGCGAGCCCGCCTTCTCTCGGACGTGCCCAAGTTCGCCAGCTGGGGCGACG
GCGAAGACGACGAGCCGAGGAGCGACAAGGGCGACGCGCCGCCACCGCCACCGCCTGCGCCCGGGCCAGG
GGCTCCGGGGCCAGCCCGGGCGGCCAAGCCAGTCCCTCTCCGTGGAGAAGAGGGGACGGAGGCCACGTTG
GCCGAGGTCAAGGAGGAAGGCGAGCTGGGGGGAGAGGAGGAGGAAGAGGAGGAGGAAGAAGGACTGG
ACGAGGCGGAGGGCGAGCGGCCAAGAAGCGGGGCCAAGAAGCGCAAGATGACCAAGGCGCGCTTGA
GCGCTCCAAGCTTCGGCGGCAGAAGGCCAAGCGCGGGAGCGCAACCGCATGCACGACCTGAACGCAGCC
CTGGACAACCTGCGCAAGGTGGTCCCTGCTACTCCAAGACGCAAGCTGTCCAAGATCGAGACGCTGC
GCCTAGCCAAGAATAATCTGGGCGCTCTCGGAGATCCTGCGCTCCGGCAAGCGCCAGACCTAGTGTC
CTACGTGCAGACTCTGTGCAAGGTCTGTGCGAGCCACCACCAATCTGGTGGCCGGCTGTCTGCAGCTC
AACTCTCGCAACTTCTCACGGAGCAAGGCGCCGACGCGTCCCGGCCGCTTCCACGGCTCGGGCGGCCGCT
TCGCCATGCACCCCTACCCGTACCCGTGCTCGCGCCTGGCGGGCGCACAGTGCCAGGCGGGCGGGCGCT
GGGCGGCGGCGGCGCACGCCCTGCGGACCCACGGCTACTGCGCCGCTACGAGACGCTGTATGCGGCG
GCAGGCGGTGGCGGCGGAGCCCGGACTACAACAGCTCCGAGTACGAGGGCCCGCTCAGCCCCCGCTCT
GTCTCAATGGCAACTTCTCACTCAAGCAGGACTCCTCGCCGACCACGAGAAAAGCTACCACTACTCTAT
GCACTACTCGGCGTGCCCGTTGCGGGCCACGGGACAGGGCTAGTCTTCGGCTCGTGGCTGTGCGC
GGGGCGTCCACTCGGAGAATCTTTGTCTTACGATATGCACCTTACCACGACCCGGGCCCATGTACG
AGGAGCTCAATGCGTTTTTTCATAACTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006160 unedited</p> <pre>CTCACTATAGGGCGGCCCGGATTTCGGCACGAGGCCGCGGTTTCGCATGGCGCTCTGAAGA CGCCGGCGCCCGCCGCTTGAGGAGCCGCTGCCCCGCTCCCTGAAGATGGGGAAACAAT GAAATAAGCGAGAAGATCCCTCTCTCCCCCTCTCTCTTGGCCCCCTCCCCCTCCC CTCCCCCTCCCCTTGACTCCTCTCCGAGGCACCATGCTGACCCGCTGTTTCAGCGAGCC CGGCCTTCTCTCGGACGTGCCAAGTTCGCCAGCTGGGGCGACGGCGAAGACGACGAGCC GAGGAGCGACAAGGGCGACGCGCCGCCACCGCCACCGCTGCGCCCGGGCCAGGGGCTCC GGGGCCAGCCCGGGCGGCAAGCCAGTCCCTCTCCGTGGAGAAGAGGGGACGGAGGCCAC GTTGGCCGAGGTCAAGGAGGAAGGCCGAGCTGGGGGAGAGGAGGAGGAGGAAAGAGGAGGA GGAAGAAGGACTGGACGAGGCGGAGGGGAGCGGCCAAGAAGCGCGGGCCCAAGAAGCG CAAGATGACCAAGGCGCGCTTGGAGCGCTCAAGCTTCGGCGGCAGAAGGCGAACGCGCG GGAGCGCAACCGCATGCACGACCTGAACGCAGCCCTGGACAACCTGCGCAAGGTGGTGCC CTGCTACTCCAAGACGAGAAGCTGTCCAGATCGAGACGCTGCGCTAGCCAAGAATA TATCTGGGCGCTCTNCGAGATCCTGCGCTCCNGCAAGCGGCCAGACCTAGTGCTACGT GCAGACTCTGTGAAGGGTCTGTGCGACCCACCACCATCTGTTGGCCGGTGTCTGCANC TCACTCTCGCAACTTCTCACGG</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006160 unedited</p> <pre>TCTATGGACCCGCGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTACTTTTTT TTTTTTTTTTTTTGGATGTTTGGTTGGTAAAAAAGGAAAAGGAAAACGGATTCTAGT TACCAATTGGCTTGGCCCTCTTTTCTCTCAATCACTCTTCCCCTCCCGCCAAAATTA AAATCGAAAACCCGAAACTGGAGTTGGGGGTGAGGGCTTCCAAGCCCGGGTCCGG CGCCCTAACTTCTACCCTTTCAAAAAAGAAGGAGCGCCTGGCTACTTTTTGCCTCGGCA GCTGGGTGTCTGTTTTAAAATAATAATGAGAGGGGAAACGCGTTCCATTGGTCAACTG CCCCCTTACCAACCCCTTGGGCCTTCAAGGAGGAAGGGGAAGAGGAAACCTCCACGAAAA TATTGGGAATGGGGGAGGGGTGCCCCACGGAGCCCCGGAGAGAGGTCCCTGGGAAAC ACACCTTGGGAGAGAGGAGGAGGAAACCCCTTGGGGAGAGAGAAAGCGAGTCCCCGGGG GAAGCCAGGGCCCTGGGACAGGCGCCCCACCAAGTAACAGGGCTGCGCTGCCCCACGAAAA CCGCCAGACGGGTGGGCCGCTCCCCGCGCCCCGGGCCCGGTAAGATGGGGGTGTCCCC TGCGCTCTGGGGCCTGGGGACACGGGGGCGGCAAAAAGCCAAAAAAGGAGGAGC CCGCGCCAATCTTCAATTTTTGAAAAACCCCTGGGCCTTCTCTTCTTGGGGCCCCCGG GCCGGTGGAGAGCCCTATCTAAAAACAAGATTCTCCAGTGGGCCCCCCGCGCACACC CGCAAAGCCAAAGACAATCCCTGGGCCCTGGGCCGGAACCGGCACCCCAAAATGCCAT AAGAATGGGGCCTTTTTCTTTTCGCAAGGGTCTCCTTTGTTGAAATTCCTTTTCCAACC GGGGGCTGACGGCC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006160
<b>Insert Size:</b>	2200 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>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>	<a href="#">NM_006160.2</a> , <a href="#">NP_006151.2</a>
<b>RefSeq Size:</b>	3048 bp
<b>RefSeq ORF:</b>	3048 bp
<b>Locus ID:</b>	4761
<b>UniProt ID:</b>	<a href="#">Q15784</a>
<b>Cytogenetics:</b>	17q12
<b>Domains:</b>	HLH
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
<b>Gene Summary:</b>	This gene encodes a member of the neuroD family of neurogenic basic helix-loop-helix (bHLH) proteins. Expression of this gene can induce transcription from neuron-specific promoters, such as the GAP-43 promoter, which contain a specific DNA sequence known as an E-box. The product of the human gene can induce neurogenic differentiation in non-neuronal cells in Xenopus embryos, and is thought to play a role in the determination and maintenance of neuronal cell fates. [provided by RefSeq, Jul 2008]