

Product datasheet for **SC324139**

NEUROD1 (NM_002500) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEUROD1 (NM_002500) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEUROD1
Synonyms:	BETA2; BHF-1; bHLHa3; MODY6; NEUROD; T2D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002500 edited
 GTCCGGAGGCCCCAGGGTTATGAGACTATCACTGCTCAGGACCTACTAACAACAAAGGAA
 ATCGAAACATGACCAAATCGTACAGCGAGAGTGGGCTGATGGGCGAGCCTCAGCCCAAG
 GTCCTCCAAGCTGGACAGACGAGTGTCTCAGTTCTCAGGACGAGGAGCAGGAGGAGACA
 AGAAGGAGGACGACCTCGAAGCCATGAACGCAGAGGAGGACTCACTGAGGAACGGGGGAG
 AGGAGGAGGACGAAGATGAGGACCTGGAAGAGGAGGAAGAAGAGGAAGAGGAGGATGACG
 ATCAAAAGCCCAAGAGACGCGGCCCAAAAAGAAGAAGATGACTAAGGCTCGCCTGGAGC
 GTTTTAAATTGAGACGCATGAAGGCTAACGCCCGGAGCGGAACCGCATGCACGGACTGA
 ACGCGGGCTAGACAACCTGCGCAAGGTGGTGCCTTGCTATTCTAAGACGCAGAAGCTGT
 CCAAAATCGAGACTCTGCGCTTGCCCAAGAACTACATCTGGGCTCTGTCGGAGATCCTGC
 GCTCAGGCAAAAGCCAGACCTGGTCTCCTTCGTTAGACGCTTTGCAAGGGCTTATCCC
 AACCCACCACCAACCTGGTTGCGGGCTGCCTGCAACTCAATCCTCGGACTTTTCTGCCTG
 AGCAGAACCAGGACATGCCCCCACCCTGCCGACGGCCAGCGCTTCTTCCCTGTACACC
 CCTACTCTACCAGTCGCTGGGCTGCCAGTCCGCCTACGGTACCATGGACAGCTCCC
 ATGTCTTCCACGTTAAGCCTCCGCGCACGCCTACAGCGCAGCGTGGAGCCCTTCTTTG
 AAAGCCCTCTGACTGATTGCACCAGCCCTTCTTTGATGGACCCCTCAGCCCGCCGCTCA
 GCATCAATGGCAACTTCTTTCAAACACGAACCGTCCGCCGAGTTTGAGAAAAATTATG
 CCTTTACCATGCACTATCCTGCAGCGACTGGCAGGGGCCAAAGCCACGGATCAATCT
 TCTCAGGCACCGCTGCCCTCGCTGCGAGATCCCATAGACAATATTATGTCCTTCGATA
 GCCATTCACATCATGAGCGAGTCATGAGTGCCAGCTCAATGCCATATTTTCATGATTAGA
 GGCACGCCAGTTTCAACATTTCCGGGAAACGAACCCACTGTGCTTACAGTGACTGTCGTG
 TTTACAAAAGGCAGCCCTTTGGTACTACTGCTGCAAAGTGCAAATACTCCAAGCTTCAA
 GTGATATATGTATTTATGTCATTACTGCCTTTGGAAGAAACAGGGGATCAAAGTTCCTG
 TTCACCTTATGTATTTTCTATAGCTTCTTCTATTTAAAAAATAAAAAATACAGTAAA
 GTTTAAAAAATACACCACGAATTTGGTGTGGCTGTATTACAGATCGTATTAAATTATCTGAT
 CGGGATAACAAAATCACAAAGCAATAATTAGGATCTATGCAATTTTTAAACTAGTAATGGG
 CCAATTAATAATATATAAATATATATTTTTCAACCAGCATTACTACTTGTACCTTT
 CCCATGCTGAATTATTTGTTGTGATTTGTACAGAATTTTAAATGACTTTTTATAATGT
 GGATTTCTATTTTAAAACCATGCAGCTTCATCAATTTTATACATATCAGAAAAGTAGA
 ATTATATCTAATTTATACAAAATAATTTAACTAATTTAAACCAGCAGAAAAGTGCTTAGA
 AAGTTATTGTGTTGCCTTAGCACTTCTTCTCTCCAATTGTAATAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_002500

Insert Size: 1800 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](#)

OTI Annotation:	no
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:	<u>NM_002500.2, NP_002491.2</u>
RefSeq Size:	2641 bp
RefSeq ORF:	1071 bp
Locus ID:	4760
UniProt ID:	<u>Q13562</u>
Cytogenetics:	2q31.3
Domains:	HLH
Protein Families:	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors
Protein Pathways:	Maturity onset diabetes of the young
Gene Summary:	<p>This gene encodes a member of the NeuroD family of basic helix-loop-helix (bHLH) transcription factors. The protein forms heterodimers with other bHLH proteins and activates transcription of genes that contain a specific DNA sequence known as the E-box. It regulates expression of the insulin gene, and mutations in this gene result in type II diabetes mellitus. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the protein-coding transcript. 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>