

Product datasheet for SC118625

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
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002500, the custom clone sequence may differ by one or more nucleotides

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ATGACCAAATCGTACAGCGAGAGTGGGCTGATGGGCGAGCCTCAGCCCCAAGGTCTCCAAGCTGGACAG
ACGAGTGTCTCAGTTCTCAGGACGAGGAGCAGGAGCAGACAAGAAGGAGGACGACCTCGAAGCCATGAA
CGCAGAGGAGGACTCACTGAGGAACGGGGGAGAGGAGGAGGACGAAGATGAGGACCTGGAAGAGGAGGAA
GAAGAGGAAGAGGAGGATGACGATCAAAAGCCCAAGAGACGCGGCCCAAAAAGAAGAAGATGACTAAGG
CTCGCCTGGAGCGTTTTAAATTGAGACGCATGAAGGCTAACGCCCGGAGCGGAACCGCATGCACGGACT
GAACGCGGCGCTAGACAACCTGCGCAAGGTGGTGCCTTGTCTAAGACGCAGAAGCTGTCCAAAATC
GAGACTCTGCGCTTGGCCAAGAACTACATCTGGGCTCTGTCTGGAGATCCTGCGCTCAGGCAAAAGCCAG
ACCTGGTCTCCTTCGTTCAAGCCTTTGCAAGGGCTTATCCCAACCCACCACCAACCTGGTTGCGGGCTG
CCTGCAACTCAATCCTCGGACTTTTCTGCCTGAGCAGAACCAGGACATGCCCCCACCTGCCGACGGCC
AGCGCTTCCTCCCTGTACACCCTACTCCTACCAGTCGCTGGGCTGCCAGTCCGCCTTACGGTACCA
TGGACAGCTCCCATGTCTTCCACGTTAAGCCTCCGCCGACGCCTACAGCGCAGCGCTGGAGCCCTTCTT
TGAAAGCCCTTGACTGATTGCACCAGCCCTTCTTTGATGGACCCCTCAGCCCGCGCTCAGCATCAAT
GGCAACTTCTCTTTCAAACACGAACCGTCCGCGAGTTTGAGAAAAATTATGCCTTTACCATGCACTATC
CTGCAGCGACTGGCAGGGGCCAAAGCCACGGATCAATCTTCTCAGGCACCGCTGCCCTCGCTGCGA
GATCCCATAGACAATATTATGTCCTTCGATAGCCATTACATCATGAGCGAGTCATGAGTGCCAGCTC
AATGCCATATTTTCATGATTAG
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5' Read Nucleotide Sequence: >OriGene 5' read for NM_002500 unedited
GGTTCACATTTTGAATACGAACTCACTATAGGGCGGCCGGAATTCGCACGAGGGCGCG
GCGTCCGGAGCCCCAGGTTATGAGACTATCACTGCTCAGGACCTACTAACAAACAAAGGAA
ATCGAAACATGACAAATCGTACAGCGAGAGTGGGCTGATGGGCGAGCCTCAGCCCCAAG
GTCTCCAAGCTGGACAGACGAGTGTCTCAGTTCTCAGGACGAGGAGCACGAGGCAGACA
AGAAGGAGGACGACCTCGAAACCATGAACGCAGAGGAGGACTCACTGAGGAACGGGGGAG
AGGAGGAGGACGAAGATGAGGACCTGGAAGAGGAGGAAGAAGAGGAAGGAGGAGGATGACG
ATCAAAAGCCCAAGAGACGCGGCCCAAAAAGAAGAAGATGACTAAGGCTCGCCTGGAGC
GTTTTAAATTGAGACGCATGAAGGCTAACGCCCGGAGCGGAACCGCATGCACGGACTGA
ACGCGGCGCTAGACAACCTGCGCAAGGTGGTGCCTTGCTATTCTAAGACGCAGAAGCTGT
CCAAAATCGAGACTCTGCGCTTGGCCAAGAACTACATCTGGGCTCTGTCGGAGATCCTGC
GCTCAGGCAAAAGCCAGACCTGGTCTCCTTCGTTTACAGCGCTTTCGCAAGGGCTTATCCC
AACCCACCACCAACCCTGTTGCGGGCTGCCTGCAACTCAATCCTCGCACTCTTCTGCCTG
AGCAGAACCAGGACACTGCCCCCACCTGCCGACGGCCAACGCTTCCCTCCCTGTACC
ACCCCTACTCCTACCATTGCGCTGGGCTTGCCAGTCCCGCCTACGGACCCATGGACAGCT
CCCATGTCTTCCAGTTAAGCCCTCGCGNACGCCTACAGGGCAAGGCTGGAGCCCTCTTTG
AAAGCCTCTGACTG

3' Read Nucleotide Sequence: >OriGene 3' read for NM_002500 unedited
ACGCGGCCGCTATATCGAGTTTTTTTTTTTTTTTTTTTGAATTGGAGAGGAAAGAAT
GCTAAGGCAACACAATAACTTTCTAAGCACTTTTCTGCTGGTTTAAATTAGTTAAATTAT
TTTGTATAAAATTAGATATAAATCTACTTTTCTGATATGTATAAAAATTGATGAAGCTGCA
TGGTTTTAAAATAGGAAATCCACATTATAAAAAGTCATTAATAATCTGTACAAAATCAC
AACAAAATAATTCAGCATGGGAAAGGTAACAAGTAGTAAAATGCTGGTTGAAAAATATAT
ATTTATATATATTTTAAATTGGCCATTACTAGTTTAAAAATTGCATAGATCCTAATTATT
GCTTGTGATTTTGTATCCCGATCAGATAATTAATACGATCTGAATACAGCCACACCAAA
TTCGTGGTGTATTTTTAAACTTACTGTATTTTTTTATTTTTTAAATAGAAGAGCTATA
GAAAAATAACATAAGGCGAACAGGAACTTTGATCCCCTGTTTCTTCAAAGGCTGTAAT
GACAATAAATACATATATCACTACAAGCTTGGAGTATTTGCACCTTTCAGCAGTAGTACC
CAAAGGCTGCCTTTTGTAAACACGACAGTCACTGTTAGCACAGTGGGTTTCGTTTCCCGG
AAATGGTGAACTGGCGTGCCCTCTATCATGAAATATGGCATTGAGCTGGGCACTCATGA
CTCGCTCATGATGTGAATGGCTATCGGACGACATAATATTGTCTATGGGGATCTCNCACC
GAGGGGCAACGGTCGCTGAAAAATTTGATCCGCGGCCCTTTGGCCCCCTGCCATGGTCCC
TGCAGAATAATGCATGGTAAGGCTTATTTTTTCCAACCTCGGCGGACGTTCCGGGTTAAA
AGAAAATTCCATTGTGCCTAACGCGGCCCTCAAGGGCCCTCAAAGGAAAAGCTGGGCATTA
TTCAAAGGCCTTTAAGAAGGCCCCACGCTTCCCTTAAAGCCCCGGAAGCTTACCGGAAT
ACTAGGAGCCCC

Restriction Sites: EcoRI-NOT

ACCN: NM_002500

Insert Size: 2020 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>
RefSeq:	NM_002500.1 , NP_002491.1
RefSeq Size:	3002 bp
RefSeq ORF:	1071 bp
Locus ID:	4760
UniProt ID:	Q13562
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>