

## Product datasheet for SC119018

### N Cadherin (CDH2) (NM\_001792) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	N Cadherin (CDH2) (NM_001792) Human Untagged Clone
Tag:	Tag Free
Symbol:	N Cadherin
Synonyms:	ACOGS; ARVD14; CD325; CDHN; CDw325; NCAD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_001792 edited  
 GAATTCGGCACGAGGGCTGCCGCTGCCTCCTCCTCCGCCGCCGCCGCCGCCGCCGCC  
 GCCTCCTCCGGCTCTTCGCTCGGCCCTCCTCCGCCTCCATGTGCCGGATAGCGGGAGCGC  
 TCGGGACCTGCTGCCGCTGCTGGCGGCCCTGCTTCAGGCGTCTGTAGAGGCTTCTGGTG  
 AAATCGCATTATGCAAGACTGGATTTCCTGAAGATGTTTACAGTGCAGTCTTATCGAAGG  
 ATGTGCATGAAGGACAGCCTCTTCTCAATGTGAAGTTTAGCAACTGCAATGGAAAAAGAA  
 AAGTACAATATGAGAGCAGTGCAGCTGCAAGTTTAAAGTGGATGAAGATGGCATGGTGT  
 ATGCCGTGAGAAGCTTCCACTCTTCTGAGCATGCCAAGTTTCTGATATATGCCCAAG  
 ACAAGAGACCCAGGAAAAGTGGCAAGTGGCAGTAAAATTGAGCCTGAAGCCAACCTTAA  
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 GTGACATCATCACAGTGGCAGCTGGACTTGATCGAGAAAAAGTGAACAGTATACGTTAA  
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 AGGATCAACCCCATACACCAGCCTGGAACGAGTGTACAGAATCAGTGGCGGAGATCCTA  
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TTATTGACGTAATGAAAACCTTATTTTGCCCCAATCCTAAGATCATTGCGCAAGAAG  
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 CAGCTCCACCATATGACTCCCTGTTAGTGTGTTGACTATGAAGGCAGTGGCTCCACTGCTG  
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 GCATAGCTATGGAGAAGTGCAGAACTTCAGAACATGTGTATGTATTATTTGGACTATG  
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 ACATTTGATTCATTTGTTGAGCTGTAGTTAGAATACTCAATTTTTAATTTTTTAAATTTT  
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 ACATAATTTGTACAAAAAAGAAAGAAAGAAAGGGTGGCCTGACACTGG  
 TGGCACTACTAAGTGTGTGTTTTTTAAAAAATGGAAAAAAGCTTTTAAACTG  
 GAGAGACTTCTGACAACAGCTTTGCCTCTGTATTGTGTACCAGAATATAAATGATACACC  
 TCTGACCCAGCGTTCTGAATAAATGCTAATTTTGGAAAAAAGAAAAAAGCTCGA  
 C

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001792 unedited</p> <pre>TCCCCGCCCCGTTGNCGCAAAGGGCGGTAGGCGGTACGGTGGNGAGTCTATATAAGCA GAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGA ATTCGGCACGAGGGCTGCCGCTGCCTCCTCCTCCGCCGCCGCCGCCGCCGCCGCCG CTCCTCCGGCTCTTCGCTCGGCCCTCTCCGCCTCCATGTGCCGATAGCGGGAGCGTG CGGACCTGCTGCCGCTGCTGGCGCCCTGCTTCAGGCGTCTGTAGAGGCTTCTGGTGAA ATCGCATTATGCAAGACTGGATTTCTCAAGATGTTTACAGTGCAGTCTTATCGAAGGAT GTGCATGAAGGACAGCCTCTTCTCAATGTGAAGTTTAGCAACTGCAATGGAAAAAGAAA GTACAATATGAGAGCAGTGAGCCTGCAGATTTTAAAGTGGATGAAGATGGCATGGTGAT GCCGTGAGAAGCTTCCACTCTTCTGAGCATGCCAAGTTCTGATATATGCCCAAGAC AAAGAGACCCAGGAAAAGTGGCAAGTGGCAGTAAAATTGAGCCTGAAGCCAACCTTAACT GAGGAGTCAGTGAAGGAGTCAGCAGAAGTTGAAGAAATAGTGTTCCCAAGACAATTCAGT AAGCACAGTGGCCACCTACAAAGGCAGAAGAGAGACTGGGTCATCCCTCCAATCAACTTG CCAGAAAACCTCCAGGGGACCTTTTCTCAAGAGCTTGTCCAGGATCAGGTCTGATAGAGAT AAAAACCTTTCAGTGCAGTACAGTGAAGTGGGCCAGAGCTGACCAGCCTCCAAGTGGG TATCTCATTATCAACCCATCTCGGGTCAGCTGTNCGTGACAAACCCCTGGTCGGCAGCA GAAGCCCGGTTTNCATTGANGCACATGCAGTAGATTAATGAAATCAGTGGAGAACCC CATGNACTTGA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001792 unedited</p> <pre>GGGGGAGACTACNGGGTACCGTGGCCGCATCNGGGGTACGAGTTTATTTCTTTTTTTTT GTCCAAAATTAGCATTTTATTCAGAACGCTGGGGTCAGCGGTGTATCATTATATTCTGG TACACAATACAGAGGCAAAGCTGTTGTCAGAAGTCTCTCCAGTTTAAAAGCTTTTTTTTT CCATTTTTTTTTTAAAAAACACACACTTAGTAGTGCCACCAGTGTCCAGGCCACCCCTTT CTTTCCTTCTTTTTTTTTTTTTTGGTACAAATTATGTAAAACATTTGTGCTAAGAACT TTTCTCCCTCCCAAAACCAAAAAGAAAAAATAAAAAATAAAAAATTAAAAAATTAATAA TGAGTATTCTAACTACAGCTCAACAATTGAATCAAATGTCAGTGTTTTGTAAATACTTTA TCCATAACGAAAGATATAAACATGCAAAAAACCTGAATCCATAGTCCAAATAATACATAC ACATGTTCTGAAGTTTCTGCACTTCTCCATAGACTATGCCAATAAAACATTATGTACACA TACTATTTTTACAGTGAAGTGGAAAAATACAGAAATAAAAAAGTGTACATGGATTAAGAC CAAAATGTGTCTAACATTCTAGTTTATGAAAAATTCATTTTGTACAAATTGGTGATA TGAAAACCTCCCTTTATTTGCAACCAGCTGAGTAAGTTTTAAGATTTTAGTAAAAAATAA AAACAACCTAAGTCTAAAACCTAGAAGTAATGTACATTTTCAATCTCATGGTCTCATCCC CCAAGAAATAAAATCGCTCCATGAGTTTTTGGTTTGGTAAATTTTGGATTTTAAAAAAA GCAAAATGCCATGTTACAAAAGCGTGTGAAGCCTTTCATGGTTTAACTTACTGTTCCCCC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001792
<b>Insert Size:</b>	4500 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_001792.2</a> , <a href="#">NP_001783.2</a>
<b>RefSeq Size:</b>	4122 bp
<b>RefSeq ORF:</b>	2721 bp
<b>Locus ID:</b>	1000
<b>UniProt ID:</b>	<a href="#">P19022</a>
<b>Cytogenetics:</b>	18q12.1
<b>Domains:</b>	Cadherin_C_term, CA
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
<b>Protein Pathways:</b>	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cell adhesion molecules (CAMs)
<b>Gene Summary:</b>	<p>This gene encodes a classical cadherin and member of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein is proteolytically processed to generate a calcium-dependent cell adhesion molecule and glycoprotein. This protein plays a role in the establishment of left-right asymmetry, development of the nervous system and the formation of cartilage and bone. [provided by RefSeq, Nov 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>