

## Product datasheet for **SC119022**

### Cadherin 8 (CDH8) (NM\_001796) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cadherin 8 (CDH8) (NM_001796) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cadherin 8
Synonyms:	Nbla04261
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC119022 sequence for NM\_001796 edited (data generated by NextGen Sequencing)

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ATGCCAGAACGGCTAGCGGAAATGCTCTTGATCTCTGGACTCCATTAATAATATTATGG
ATTACTCTTCCCCTTGCATTTACATGGCTCCGATGAATCAGTCTCAAGTTTTAATGAGT
GGATCCCCTTTGGAACAAACAGTCTGGGTGAAGAACAGCGAATTTTGAACCGCTCCAAA
AGAGGCTGGGTTTGGAAATCAAATGTTTGTCTGGAAGAGTTTTCTGGACCTGAACCGATT
CTTGTGGCCGGCTACACACAGACCTGGATCCTGGGAGCAAAAAATCAAGTATATCCTA
TCAGGTGATGGAGCTGGGACCATATTTCAAATAAATGATGTAACCTGGAGATATCCATGCT
ATAAAAAGACTTGACCGGGAGGAAAAGGCTGAGTATACCCTAACAGCTCAAGCAGTGGAC
TGGGAGACAAGCAAACCTCTGGAGCCTCCTTCTGAATTTATTATTAAGTTCAAGACATC
AATGACAAATGCACCAGAGTTTCTTAATGGACCCTATCATGCTACTGTGCCAGAAATGTCC
ATTTTGGGTACATCTGTCACTAACGTCACTGCGACCGACGCTGATGACCCAGTTTATGGA
AACAGTGCAAAGTTGGTTTATAGTATATTGGAAGGGCAGCCTATTTTTCCATTGAGCCT
GAAACAGCTATTATAAAAACTGCCCTTCCAACATGGACAGAGAAGCCAAGGAGGAGTAC
CTGGTTGTTATCCAAGCCAAAGATATGGGTGGACTCTGGTGGCCTGTCTGGGACCACG
ACACTTACAGTGACTCTTACTGATGTTAATGACAATCCTCCAAAAATTTGCACAGACCTG
TATCACTTCTCAGTACCGGAAGATGTGGTTCTTGGCACTGCAATAGGAAGGGTGAAGGCC
AATGATCAGGATATTGGTAAAAATGCACAGTCATCATATGATATCATCGATGGAGATGGA
ACAGCACTTTTTGAAATCACTTCTGATGCCCAGGCCAGGATGGCATTATAAGGCTAAGA
AAACCTCTGGACTTTGAGACAAAAATCCTATAACGCTAAAGGTAGAGGCAGCCAATGTC
CATATTGACCCACGCTTCACTGGCAGGGGGCCCTTAAAGACACGGCGACAGTCAAAATC
GTGGTTGAAGATGCTGATGAGCCTCCGGTCTTCTTCCACCGACTTACCTACTTGAAGTT
CATGAAAATGCTGCTCTAACTCCGTGATTGGGCAAGTACTGCTCGTGACCCTGATATC
ACTTCCAGTCTATAAAGTTTTTCCATCGACCGGCACACTGACCTGGAGAGGCAGTTCAAC
ATTAATGCAGACGATGGGAAGATAACGCTGGCAACACCACTTGACAGAGAATTAAGTGTA
TGGCACAACATAACAATCATTGCTACTGAAATTAGGAACCAAGTCAAGATATCACAGATA
CCTGTTGCTATTAAGTGTGGATGTCAATGACAACGCCCTGAATTCGCATCCGAATAT
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AACAAATCCGAATTTCAACATCAAGAAAAATGAAGATAATCCCTCAGTATTTGGCAAAG
CATAATGGATTCAACCGCCAGAAGCAAGAAGTCTATCTTTTACCAATCATAATCAGTGAT
AGTGAAAATCCTCCACTGAGCAGCACTAGCACCTTGACAATCAGGGTCTGTGGCTGCAGC
AATGACGGTGTCTGTCAGTCTTGAATGTCGAAGCTTATGTCCTTCCAATTGGACTCAGT
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TTTGTAACCTACGGCGGCATAAAAAATGAACCATTAATATCAAAGATGATGAAGACGTT
CGAGAAAAACATCATTGCTACGATGATGAAGGAGGAGGGGAGGAGGACACAGAGGCTTTT
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AAACCAGATTTGCAGTTTATGCCAAGGCAAGGGCTTGTCCAGTTCCAAATGGTGTGAT
GTCGATGAATTTATAAATGTAAGGCTGCATGAGGCAGATAATGATCCCACGGCCCGCCA
TATGACTCCATTAGATATATGGCTATGAAGCCGAGGGTCAGTGGCTGGCTCCCTCAGC
TCTTGGAGTCCACCACATCAGACTCAGACCAGAATTTTACTACCTCAGTGACTGGGGT
CCCCGCTTAAAGAGACTGGGCGAACTCTACTCTGTTGGTGAAGTGACAAAGAACTTGA

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Clone variation with respect to NM\_001796.4

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001796 unedited  
AAGCTTTGGATTTGTAATCCNACTTACTATAGNNGGCGGCCGCGCAATTCGCACGAGGGC  
CGCCGCCCGCGCTTGTGCATAGACGGTAGCGTCAAGACACCAGCTGCACCTTGGGTTGC  
GGACACCCAGAGCCCAGCGCGCCCGCCCTGCGTCTCCGCACCAAGCCCTGTAGCTCCGAG  
AGGCATGAACGGAATCCGGAGGCGCCTGCCTAGCGAGCGAGGACCGGTGCGCGCTTGCCG  
CCCTCGGGAGCTAACCCCGAGCACCTCCAGCCATTTGTGAACCTGGAGGCTTGACATTCG  
CCAGCCAGGGCCCCACAAGAGAAATTTCAATGAAAAGAAAAGCCAATGGATTGTGGTCT  
TAGAAAAGCTGCTTAGATGATGTCTGTTTCCCGTGTATAGACACGTGGCAGAGCTGTAA  
GTAAATGCTCGGCACTGCATGATGAATTGGATGGCTGCAGACCGAGACAAAAAATAA  
TTGTCTCATTTTCGTGGTGATTTGCTTAACTGGTGGGACCATGCCAGAACGGCTAGCGGA  
AATGCTCTGGATCTCTGGACTCCATTAATAATATTATGGATTACTTTCCCCCTTGCAT  
TTACATGGCTCCGATGAATCAGTCTCAAGTTTTAATGAGTGGATCCNCTTTGGAATAAA  
CAGTCTGGGTGAAGAACAGCAATTTTGAACCGCTCCAAAAGAGGCTGGGTTTGGAAATCA  
AATGTTTGTCTGGAAGAGTTTCTGGACCTGAACCGATTCTTGTGGCCGGCTACACACA  
GACCTGGATCCTGNGAGCANAAAAATCAAGTATATCCTATCAGGTGATGGAGCTGGGACC  
ATATTTCAATNNAATGATGACTGGAGATATCCATGCTATAAAAAGACTTGACCGGGGAG  
AAAAAGCTGAGTATACCCNNTACAGCTCAGCAN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001796 unedited  
GCCCGCGCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGTTCAACATTAATG  
TGGTTGAGTTTATAGATGACTGGTGCTAAACTTGCCTCTAAAACAATAGCCACATTGGT  
TGTATCTAAGGGGAGTGACCCTAGAATATTACAGAATGCTCAGTCCAGTGATTTATTTA  
TAATCCACTGTCAAGTTTCTTTGCACTTTCACCAACAGAGTAGAGTTGCCCCAGTCTCT  
TAAAGCGGGGACCCAGTCACTGAGGTAGTCAAAATTCTGGTCTGAGTCTGATGTGGTGG  
ACTCCAAGGAGCTGAGGGAGCCAGCCACTGACCCTCGGCCTTCATAGCCATATATCTGAA  
TGGAGTCATATGGCGGGGCGTGGGATCATTATCTGCCTCATGCAGCCTTACATTTATAA  
ATTCATCGACATCAACACCATTTGGAAGTGGAGCAAGCCCTTGCCTTGGCATAAACTGCA  
AATCTGGTTTAAATATCCTTACGGGGTAAAAATCCATTAATCCATCTGGATTTTGTAAAG  
TTGCAATGTCAAAAGCCTCTGTGTCCTCCTCCCCTCCTCCTTATCATCGTAGCGAATGA  
TGTTTTCTCGAACGTCTTATCATCTTTGATAATTAATGGTTTCATTTTTATGCCCGGTA  
GAGTTACAACAGCACACGATGACTAACAGCAAATGATGCATGCTAATATGGCAATTA  
AGGCGCCATACTGAGTNAATTAAGGACATNAGCTCGACATTGCAGACTGGACGACA  
CCGTCATTGCTGCAGCCACAGACCCTGATGTCAAGGGGCTAGTGCTGCTCATGGNAGATT  
TTCCCTTCACTGATATGGATGGTAAAGATAACTTCTGCTNCTGGCGNTGAATCATTATGC  
TTTGCCAATACTGAGGAATATCTTCATTTCTTGTGGATTCCGATGTTGACATTCTGG  
ANGAGATGNTANAAAAAAGGCCGTTTGGGAACACCTTGCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001796

**Insert Size:**

3000 bp

**OTI Disclaimer:**

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).

**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).

<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_001796.2</a> , <a href="#">NP_001787.2</a>
<b>RefSeq Size:</b>	2929 bp
<b>RefSeq ORF:</b>	2400 bp
<b>Locus ID:</b>	1006
<b>UniProt ID:</b>	<a href="#">P55286</a>
<b>Cytogenetics:</b>	16q21
<b>Domains:</b>	Cadherin_C_term, CA
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>This gene encodes a type II classical cadherin from the cadherin superfamily, integral membrane proteins that mediate calcium-dependent cell-cell adhesion. Mature cadherin proteins are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. The extracellular domain consists of 5 subdomains, each containing a cadherin motif, and appears to determine the specificity of the protein's homophilic cell adhesion activity. Type II (atypical) cadherins are defined based on their lack of a HAV cell adhesion recognition sequence specific to type I cadherins. This particular cadherin is expressed in brain and is putatively involved in synaptic adhesion, axon outgrowth and guidance. [provided by RefSeq, Jul 2008]</p>