

## Product datasheet for SC118526

### PCDH7 (NM\_002589) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | PCDH7 (NM_002589) Human Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | PCDH7   |
| Synonyms:                 | BH-Pcdh; BHPCDH; PPP1R120   |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL6</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF within SC118526 sequence for NM_002589 edited (data generated by NextGen Sequencing) |

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ATGCTGAGGATGCGGACCGGGATGGGCGCGGCTGGTGTGGCTGCTGCCTCCTC
CTGCCGCTCTCGCTCAGCCTGGCGGCCCAAGCAGCTCCTCCGGTACCGGCTGGCCGAG
GAGGGCCCGCCGACGTCCGCATCGGCAACGTGGCTTACAGCCTGGGCATCGTGACCGGA
TCGGGTGAGGTGACTTTACGCTGGAGTCCGGTCCGAGTACCTGAAGATCGACAACCTC
ACTGGCGAGCTGAGCACGAGCGAGCGGCGCATCGACCGGAGAAGCTGCCCCAGTGTGAG
ATGATCTTCGACGAGAACGAGTGTCTTCTGGACTTCGAGGTGTGGTGATCGGGCCCTCG
CAGAGCTGGGTGGACCTGTTTGGGGTCAAGTTCATCGTGTGACATCAACGACAACACG
CCCACCTTCCCGTCGCCCCTGCTCACGCTCACGGTGGAGGAGAATCGGCCGTGGGCACA
CTTTACCTGCTGCCACAGCCACCGACCGGACTTCGGCCGCAACGGCATCGAGCGCTAC
GAGCTGCTCCAGGAGCCCGGAGGCGGCGCAGCGGCGGCGAGAGCCGGCGCGCCGGGGCG
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TTCAACGTGGTCATCGTGGCGGTGGACTCAGGCAGCCCCAGCCTCTCGAGCAACAACCTCC
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GAGGTTTACTTCCCTGAGAACACATCCCGGGCGAGAGGGTGGCCACGGTCTGGCGACA
GACGCAGACAGCGGTAAGAACGCCGAGATCGCCTACTCGCTGGACTCCTCTGTGATGGGG
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CAGACTGACAGGTATGAGTTTAAAGTTAACGCCAAAGACAAAGGCATCCCCGTGCTGCAG
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CAGGACGTCTTCACCTTTTATGTGAAAGAAAACCTTGACGCCAACAGCCCTGTGGGGATG
GTCACCGTGATGGATGCTGACAAGGGCGGAATGCAGAGATGAGCCTGTACATAGAGGAG
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AGGTCCGTTAATGGTGGGCCCGGAGTCCCTGACCTGGCAAGGCATTACAAATCTAGTTCC
CCATTGCCTACTGTTAGCTTTCATCCCCAGTCCCAACTGCAGGAAAAAACACCAGGCC
GTACAAGATCTACCACCAGCCAACACATTTGTGGGAGCAGGAGACAACATTTCAATTGGA
TCAGATCACTGCTCTGAGTACAGCTGTCAAACCAATAACAAGTACAGCAACAGATGCGT
CTACATCCATACATTACTGTGTTGGCTGA
    
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Clone variation with respect to NM\_002589.2

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_002589 unedited
TATCCCCCGCCGTTGNCGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGC
AGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCG
AATTTCGGCAGGAGGTAGCAGCAGCAGCAGGAGAAGATGCTGAGGATGCGGACCGCGGGA
TGGGCGCGCGGCTGGTGTGTTGGGCTGCTGCCTCCTCCTGCCGCTCTCGCTCAGCCTGGCG
GCCGCCAAGCAGCTCCTCCGGTACCGGCTGGCCGAGGAGGGCCCCGCCGACGTCCGCATC
GGCAACGTGGCTTCAGACCTGGGCATCGTGACCGGATCGGGTGAAGTACTTTCAGCCTG
GAGTCCGTTCCGAGTACCTGAAGATCGACAACCTCACTGGCGAGCTGAGCACGAGCGAG
CGGCGCATCGACCGCGAGAAGCTGCCCCAGTGTGAGATGATCTTCGACGAGAACGAGTGC
TTCTTGACTTCGAGGTGTGCGGTGATCGGGCCCTCGCAGAGCTGGGTGGACCTGTTTGAG
GGTCAGGTCACTGCTGTTGACATCAACGACAACACGCCACCTTCCCGTCCCGCTGCTC
ACGCTCACGGTGGAGGAGAATCGGCCGTTGGGCACACTTACCTGCTGCCACAGCCACC
GACCGCGACTTTCGGCCGAACGGCATCGAGCGCTACGAGTGTCCAGGAGCCCCGGAGGC
GGCGGCAGCGGCGGAGAGCCGCGCCGCGCCGNGCGGCCGACAGCGCCNCTACCCCGNN
GGCGGCGGGAACGGCGCGAGCGGCGCGGCTTCGGAGGCTCCAAGCGCGGCTGGACGCAT
CAGAGGNGCGGCGGCCAACCCCGCGGCGCAGCAGCGTGTTCGAGCTGCAGGTGC
GGACACCCGNACGGCGAGAAGCACCGCAGCTGATCGTGAAGGGGGCGCTGC
    
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|                                     |   |
|-------------------------------------|---|
| <b>3' Read Nucleotide Sequence:</b> | >OriGene 3' read for NM_002589 unedited<br>TGGCCCGATTTATCTATGNNACCGCGGCCGCATNCTAGNGATCGATTTTTTTTTTTTTTTTT<br>TTTGTTCAAAATCGTATTTAATGTATTAAGAAAAAGACATAAGAGGCTGAATTTCCCTT<br>TGTTACACAAAGTCTCAAACCTATTGTTGCAATATGCTTTTGGATTTTTTAAAAGACAT<br>CACTGTTACGTCTAATAGGTGCTAACCGCCTCTTAAGAATGGAATTTCTGGTGACTCAG<br>ACATCCATTAGTAGCACATTTCTGCATTAATACTGTTTCATACATTTATTTTATTTTCAT<br>ACTATTTTTCTGTATATGAGAAAGAAAAAGACTCAAAAATAAAATGTACAACAAGTGAA<br>CAAGCAGTGATTGGCTGACACCCACGGCCAAGGGCAGGCTCCAGCAGTTTCGGAGTAG<br>AAAGGTCAACACAGTATGGTGCATAATGGAGCATCATATTAGAGTGGAATTCAGCCCAAC<br>ACAGTAATGTATGGATGTAGACGCATCTGTTTGGCTGACTTGTATTGGTTTGACAGCTG<br>TACTCAGAGCAGTGATCTGATCCAATTGAAATGTTGTCTCCTGCTCCACAAATGTGTTG<br>GCTGGTGGTAGATCTTGTACGGCCTCGGGTTTTTTTCTGCAGTTGGTGACTGGGGATGA<br>AACCTAACACTATGCAATGGGAACTAAATTTTTAATGCCTTGGCAGGTCAGGACTGGCG<br>GGCCCCCATTAACAGGACCTGGATCGGCCCTGCTTTGGGCTGTTTTACAAGCTTCTCA<br>TTGAACCTATTATAACCTGGCGCAATTTGGGTTAAAAACCCTCCCAAAGACCAATGCT<br>GCTGTTAAAAAGGCTTGGTAAATT |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_002589   |
| <b>Insert Size:</b>                 | 3600 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>                      | <u><a href="#">NM_002589.2</a></u> , <u><a href="#">NP_002580.2</a></u>   |
| <b>RefSeq Size:</b>                 | 4646 bp   |
| <b>RefSeq ORF:</b>                  | 3210 bp   |
| <b>Locus ID:</b>                    | 5099  |
| <b>UniProt ID:</b>                  | <u><a href="#">O60245</a></u>   |
| <b>Cytogenetics:</b>                | 4p15.1  |
| <b>Protein Families:</b>            | Druggable Genome, Transmembrane   |

**Gene Summary:**

This gene belongs to the protocadherin gene family, a subfamily of the cadherin superfamily. The gene encodes a protein with an extracellular domain containing 7 cadherin repeats. The gene product is an integral membrane protein that is thought to function in cell-cell recognition and adhesion. Alternative splicing yields isoforms with unique cytoplasmic tails. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (a) uses an alternate splice pattern in the 3' CDS and 3' UTR, compared to variant d. The resulting isoform (a) has a shorter and distinct C-terminus, compared to isoform d. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.