

## Product datasheet for SC125437

### PCDH1 (NM\_032420) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH1 (NM_032420) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDH1
Synonyms:	PC42; PCDH42
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125437 sequence for NM_032420 edited (data generated by NextGen Sequencing)

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ATGGACAGCGGGCGGGCGCCGCGCTGCCCGAGGCGCCCTCCTGATTCTGGGGCCT
CCCAGGATGGAGCACCTGAGGCACAGCCCAGGCCCTGGGGGCAACGGCTACTGCTGCC
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TATGGTTTTCCAGATGTGGGGCACCTGTACAAGCTAGAGGTGGGTGCCCGTACCTTCGC
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CGTGAATGCCAGAACCAGCTCCCTGGTGATCCCTGCATCCTGGAGTTTGAGGTATCTATC
ACAGACCTCGTGAGAATGGCAGCCCCGGCTGCTAGAGGGCCAGATAGAAGTACAAGAC
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GACAACGCACCTGTCTTCACTCAGAGTGTCACTGAGGTCGCCTTCCCGAAAACAACAAG  
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 AAAACGGCCCCGTGCGCCTCCTGCCCTCTACAGTGCCTTCTCCACAGTAGCCATGAT  
 TCCTGCAAGGACTCGGCCACCTTGGAGGAAATCCCCCTGACCCAGACCTCGGACTTCCCA  
 CCCGACGCCACACCGGCATCTGCCAGACGGCCAAGCGCGAGATCTACCTGTGA

Clone variation with respect to NM\_032420.2  
 2250 t=>c

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_032420 unedited  
 NGTTATCCCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATAT  
 AAGCAGAGCTCATTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGC  
 CGCGAATTCGGCACGAGGGCGGCGGACGCAAAGCCCGGGGCTGCTGCGCCAGAGCC  
 AGCCGGAGCCGGAGCCGGAGCCGAACTGCAGCTCCAGCCCCAGCCGTGCGGAGCCGAG  
 CCCAGGCCGGGGCCGGCGGGCTCATGGACAGCGGGGGCGGGCGCCGGCTGCCCGGA  
 GCGCGCCCTCCTGATTCTGGGGCTCCAGGATGGAGCACCTGAGGCACAGCCAGGCC  
 TGGGGGCAACGGCTACTGCTGCCCTCCATGCTGCTAGCACTGCTGCTCCTGCTGGCTCC  
 ATCCCCAGGCCACGCCACTCGGGTAGTGTACAAGGTGCCGGAGGAACAGCCACCCAAACAC  
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 AGAGGTGGGTGCCCGTACCTTCGCGTGGATGGCAAGACAGGTGACATTTTACCACCGA  
 GACCTCCATCGACCGTGAGGGGCTCCGTGAATGCCAGAACCAGCTCCCTGGTGATCCCTG  
 CATCTGGAGTTTGGGTATCTATCACAGACCTCGTGAGAATGGCAGCCCCGGCTGCT  
 AGAGGGCCAGATAGAAGTACCAGACATCAATGGACACACCCAACTTCGCCTACCAGT  
 CATCACTCTGGCCATCCCTGAGAACACCAACATCGGCTACTCTCCCATCCCGTGGCT  
 TCAGACCGTGATGCTGGTCCAACGGTGTGGCATNCTATGAGCTGCAGCTGGGCCTGAGCC  
 CAGAGCTATTTGGGCTGCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_032420 unedited  
 TTGTCTATCCAGTCCCTTAAATACAGCCACTGCATGACCAGCAGGAATGGGGGCCAG  
 ATGGGACTAGGCGTGGGCATGTGGCAGGAGGTGGGCCAGTCCAGGAGCAGCACGGGAAA  
 ACAAGGCTCCGCTCCACTCCCACCCCGTCCCTACCCACCTTTGGTAACAAAAGCCCT  
 TCAGGGAGCCACTGGTGGTCAAGAGTTTCTCTGGGAGCTCCCAGGAAAGGGGCTCCCC  
 AGTTCAGCCCTGCTTCAGGGCTAAAATTGGGCATGCTATCCCCGCCCTGGTCGGCCATGA  
 GGGAAACAATGAGTTAGAAGTACGCTGCCACCCTTGACTCCACCATCTGCCAAATCGA  
 GGGGTGCTCCCTGGAAGTCAAGGGAAGGAGCCAGTCATTGCAGAGGAGCCCTTTGGG  
 CATCAGTGGGGGAAGCCCATAAAGGGGAAGGGGCCCTGGGGGCTGGGAGATGGAAAT  
 GAGGGGAGAGGACCTGGACCCTGCATGGGAGAAGGGCCAGCGTGGTCATGAGGTCAGTGA  
 TACCCCACTTGGGGCCCTGGCCAGGAAGTCCACGCTGAAGGGTGGAGAGTGAGGCCCT  
 GGAATGGGCCATTTGNGAGCTGGGCCGCGGCTGGNGAGGGGGGCCCGCCGAGTANG  
 GGGCTCACAGGTAGATCTCGCGTTGGGCCGTCTGGCAGATGCCCGTGTGGCTGCNGGTG  
 GGAAGTCCCGAGTCTGGGTGAGNGGATTTTCTCCAAGGTGGCCGAGTCTTTGCAGAA  
 TCATGGCTACTGTGGNGAGAGGCACTGTTAGAGGGCAGGAGGCGCAGGGGCCGTTTGG  
 TGTTCCGGTCTTCCGGGGGCTGGGCTGCCCGCGCCGAGGCTCCTGCCCTCCTGGTCC  
 TGTAAGCACAAAGTGGAAAGTTGTAGGCCCTCCTCTTGTTCGCGCTCGGAAAAGA  
 A

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_032420

**Insert Size:**

4700 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_032420.2</a> , <a href="#">NP_115796.2</a>
<b>RefSeq Size:</b>	4779 bp
<b>RefSeq ORF:</b>	3714 bp
<b>Locus ID:</b>	5097
<b>UniProt ID:</b>	<a href="#">Q08174</a>
<b>Cytogenetics:</b>	5q31.3
<b>Domains:</b>	CA
<b>Protein Families:</b>	Transcription Factors, Transmembrane
<b>Gene Summary:</b>	<p>This gene belongs to the protocadherin subfamily within the cadherin superfamily. The encoded protein is a membrane protein found at cell-cell boundaries. It is involved in neural cell adhesion, suggesting a possible role in neuronal development. The protein includes an extracellular region, containing 7 cadherin-like domains, a transmembrane region and a C-terminal cytoplasmic region. Cells expressing the protein showed cell aggregation activity. Alternative splicing occurs in this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) represents the longest transcript and encodes the longest isoform (2). 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>