

Product datasheet for **SC337836**

PCDH1 (NM_001278613) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH1 (NM_001278613) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDH1
Synonyms:	PC42; PCDH42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001278613, the custom clone sequence may differ by one or more nucleotides

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ATGAGATTCAGGGATCTGAGTTTCTGGAATCGGGGTTCTGTGCTGGGACTGACTGCTCTTGTGGAGAATC
GTGTGTCAGTGGGAGAGGCCCTCTGATTCTGGGGCTCCAGGATGGAGCACCTGAGGCACAGCCAGG
CCCTGGGGGGCAACGGCTACTGCTGCCCTCCATGCTGCTAGCACTGCTGCTCCTGCTGGCTCCATCCCCA
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AACCAGTCCCTGGTGATCCCTGCATCCTGGAGTTTGAGGTATCTATCACAGACCTCGTGCAGAATGGCA
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CTGCTGCGTGTACCGTGCTTGACACCAATGACAACGCCCCCAAGTTTGAGCGGCCCTCCTATGAGGCCG
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GAGATTGTGGCTGTGGACTCTGGCAACCCCCACTCTCCAGCACTAACTCCCTCAAGGTGCAGGTGGTGG
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TGGTGAAGTGATTGCTGAGATCACTGCCAGTGATGCTGACTCTGGCTCTAATGCTGAGCTGGTTACTCT
 CTGGAGCCTGAGCCGGCTGCTAAGGGCCTTTCACCATCTCACCCGAGACTGGAGAGATCCAGGTGAAGA
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 GACCTGTATGCCCAAGCCAGTGGCAAGGCCTCCAAGGGAAACAAAAGCAAAGGCAAGAGAGCAAGT
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 GATGAGCGATGCCCTGGGGACAGTCCCGCATCCACCTGCCCTCAACTACCCACGAGGACCCCTGAC
 CTGGGCCGCCACTATCGCTCTAACTCCCACTGCCTCCATCCAGCTGCAGCCCCAGTCAACCTCAGCT
 CCAAGAAGCACCAGGTGGTACAGGACCTGCCACCTGCAACACATTCTGTGGGCACCGGGACACCACGTC
 CACGGGCTCTGAGCAGTACTCCGACTACAGTACCGCACCAACCCCCCAATACCCAGCAAGCAGGTA
 GGCCAGCCCTTTCAGCTCAGCACACCCAGCCCTACCCACCCCTACCACGGAGCCATCTGGACCGAGG
 TGTGGGAGTGA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001278613
- 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).
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 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.
- RefSeq:** [NM_001278613.1](#), [NP_001265542.1](#)
- RefSeq Size:** 3768 bp
- RefSeq ORF:** 3231 bp
- Locus ID:** 5097

UniProt ID: [Q08174](#)

Cytogenetics: 5q31.3

Protein Families: Transcription Factors, Transmembrane

Gene Summary: 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]
Transcript Variant: This variant (3) has an alternate 5' exon and lacks two 3' exons. Its transcription extends past a splice site that is used in variant 2, resulting in a novel 3' coding region and 3' UTR compared to variant 2. It encodes isoform 3 which is shorter and has a distinct C-terminus, compared to isoform 2.