

Product datasheet for SC109553

PCDH1 (NM_002587) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH1 (NM_002587) 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:	>SC109553 representing NM_002587 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGCGGGCGGGCGGCCGGCTGCCCGGAGGCGGCCCTCTGATTCTGGGGCTCCCAGGATGG
AGCACCTGAGGCACAGCCAGGCCCTGGGGGCAACGGCTACTGCTGCCCTCCATGCTGCTAGCACTGCT
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CCCCATCCCGCTGGCTTCAGACCGTGTGCTGGTCCCAACGGTGTGGCATCCTATGAGCTGCAGGCTGGG
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GAAGGTCAAAGACTACACCATTGAGATTGTGGCTGTGGACTCTGGCAACCCCCACTCTCCAGCACTAAC



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TCCTCAAGGTGCAGGTGGTGGACGTCAATGACAACGCACCTGTCTTCACTCAGAGTGCTACTGAGGTCC
CCTTCCGGAAAACAACAAGCCTGGTGAAGTGATTGCTGAGATCACTGCCAGTGATGCTGACTCTGGCTC
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AGAAGTCCCTCAAGTTCAACCTGATGAGCGATGCCCTGGGGACAGTCCCGCATCCACCTGCCCTCAA
CTACCCACAGGCAGCCCTGACCTGGGCCGCCACTATCGCTCTAACTCCCACTGCCTCCATCCAGCTG
CAGCCCCAGTACCCTCAGCCTCCAAGAAGCACCAGGTGGTACAGGACCTGCCACCTGCAAAACACATTCC
TGGGCACCGGGGACACCACGTCACGGGCTCTGAGCAGTACTCCGACTACAGTACCGCACCAACCCCC
CAAATACCCAGCAAGCAGGTAGGCCAGCCCTTTCAGCTCAGCACACCCAGCCCTACCCACCCCTAC
CACGGAGCCATCTGGACCAGGTGTGGAGTGA
    
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2243_a04.zip

Restriction Sites: NotI-NotI

ACCN: NM_002587

Insert Size: 4200 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_002587.3](#), [NP_002578.2](#)

RefSeq Size: 3851 bp

RefSeq ORF: 3183 bp

Locus ID: 5097

UniProt ID: [Q08174](#)

Cytogenetics: 5q31.3

Domains: CA

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 (1) lacks two exons and 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 1 which is shorter and has a distinct C-terminus, compared to isoform 2.