

## Product datasheet for **SC125686**

### Protocadherin 21 (CDHR1) (BC038799) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Protocadherin 21 (CDHR1) (BC038799) Human Untagged Clone
Tag:	Tag Free
Symbol:	Protocadherin 21
Synonyms:	DKFZp434A132; KIAA1775; MT-protocadherin; OTTHUMP00000019993; PRCAD; protocadherin 21
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 sequence for BC038799 edited
CCACGCGTCCGGCTACCCCCATTGTGGTCTCTGCCCTCCCCGCGGGCCAGGGCATGCTC
CGTGCCCTGCGCCCGGTCTCGGCGGGCAGGCGACTCCGCGCCGGCGGAGACATGA
GGCGCTGCCGGTGGGCCGCCCTGGCCCTGGGGCTGCTGCGCCTCTGCTTGGCTCAGGCCA
ACTTCGCCCCGCCTTCTTCGACAACGGGGTCGGCAGCACCAACGGAAACATGGCTCTGT
TCAGCCTCCCAGAGGACACCCCTGTAGGCTCTCACGTATACACCCTGAATGGGACAGACC
CTGAGGGAGACCCCATCTCTACCACATCAGCTTTGACCCAGCACTAGAAGCGTCTTTT
CTGTTGACCCCACTTTTGGAAACATCACCCCTGGTTGAAGAGCTGGACAGAGAGAGGGAAG
ATGAGATTGAAGCCATCATCAGCATTCTGATGGCCTGAATCTGGTGGCCGAAAAAGTCG
TGATCCTGGTGACCGATGCCAATGATGAGGCGCCAGGTTTCATCCAGGAGCCTTATGTTG
CCCTGGTTCGCGAGGACATACCTGCTGGGAGCATCATCTTTAAGGTCCATGCAGTGGACA
GGGACACAGGCTCTGGAGGGAGTGTACCTACTTCTGCAGAACCTGCACTCCCCATTTG
CCGTGGACCGCCACAGCGGTGTGCTGCGCCTCCAGGCTGGGGCCACTCTGGACTACGAGA
GGTCCCGACCCACTACATCACCGTGGTCGCCAAGGATGGCGGTGGGAGGCTTCATGGG
CTGATGTGGTGTCTCAGCCACCACCGTCCAGGTCACGGTCAATGTGGAGGATGTTGAGACA
TGCCCCCTGTCTCGTGGGCACACCCTACTATGGCTATGTGTACGAGGACACCCTCCGG
GCTCGGAGGTAAGTGGTGCCTATGGATGGAGACCGGGGCAAAACCAATCGAATTC
TCTACAGCCTTGTAAATGGGAACGATGGAGCCTTTGAAATTAATGAGACATCTGGAGCCA
TCTCCATCACTCAGAGCCCGGCCAGCTCCAGAGAGAGGTGTATGAGCTGCATGTACAGG
TGACTGAAATGAGCCCTGCGGGGAGCCAGCTGCCAGGCCACCCTCCAGTCCACATCA
GGATTGTGGACCTCAACAACCACCCGCCAACATTCTATGGAGAGAGCGGACCCCAAAACA
GTTTGTAGCTGTCCATGAATGAGCACCCACCCAGGGAGAGATCTGCGGGCCCTCAAGA
TCACCGTCAATGACTCCGACAGGGAGCCAAATGCCAAATTCAACTTGCAGCTGGTGGGAC
CCAGGGGCATCTCCGAGTGGTCCACAGACAGTCTGAATGAAGCCCAAGTCACAATCA
TTGTGGAGAACTCAGCTGCCATTGACTTTGAAAAGTCCAAAGTATTAACCTTCAAGCTCC
TGGCTGTTGAAGTGAACACCCAGAGAAGTTCAGTTCACAGCGGATGTTGTGATCCAGC
TCCTGGACACCAATGACAATGTCCCAAGTTCGACTCCCTCTACTACGTTGCCAGGATTC
CTGAGAACGCCCCAGGGGCTCCAGCGTGGTGGCTGTACAGCTGGATCCAGATACAG
GACCCTGGGGCGAAGTGAATATTCACCTATGGGACTGGGGCAGACCTTCTCTGATCC
ACCCATCCACTGGGCTTATCTACACCCAGCCCTGGGCTAGCCTGGACGCTGAGGCCACTG
CCAGGTACAACCTCTATGTGAAGGCAGAGGACATGGAAGGCAAGTACAGCGTAGCTGAGG
TGTTTATCACACTGCTGGATGTCAATGACCACCCCTCAGTTTGGAAAGAGCGTTCAGA
AGAAGACGATGGTGTAGGGACCCAGTAAAATTGAGGCCATAGACGAGGATGCAGAGG
AACCAACAACCTGGTGGACTATTCCATCACCCATGCAGAGCCCGCCAACGTGTTGAGACA
TCAATTCACACGCGGGGAGATCTGGCTCAAGAATTCATCCGCTCCCTGGATGCCCTGC
ACAACATCACACCTGGAAGGGACTGCCTATGGTCCCTAGAGGTGCAGGCCAAGGACCGGG
GCTCCCATCCTTCAGCACACAGCCTTACTCAAGATTGACATCACAGATGCTGAGGTGA
GAAGACTAAGGTACATGAAAAATAGTAACTTCCCTGGTACAACAAAGTCAGTAAGAAAAC
CAAAATTAAGCCCAAGAAACCACATTCAGCCAGGGTCTGTTCTTGCATCCCCACTGCG
AAATTGCCTTATTCAATCTGAGTAATGTGAATCTGTAAGTCTAGAGTTTTTCAAGGGGAG
CCCAAGCATCTTAAAAAGTATCAGATTCTCAGAAATCCTCCCTAGACCATTTTCCCTCTC
CCTAAATTTCTATGTTTACAGAAGCAACTGAATACTTCCCTACCCACCAACATGCTCCTG
GCTCTCCCTGCACTGCTTGCTGCTTCCACAGCCCTTCTCTCATCCTGACCCCTCTGT
CTCATGTGCACCACCAAGCTTCTTTGCTTGGCTTGAAGGTCTGAACATCCACTCTCACC
TTCATGGTAGCCAGGCTATTTTCATGATGGTGACACCCTCAAGATCCGTAGACCACTGTA
TTAGTTCGTTCTCATGCTGCTAATAAAGATACCCGAGACTGGGTAATTTATAGAGGAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for BC038799 unedited  
 GGTTAGGATTTGTATACGACTTATATAGGCGAGCCGCGATTCAAATCTGGTACCGGTCCG  
 GAATTCCTCCGGGATATCGTCGACCCACGCGTCCGGCTACCCCCATTGTGGTCTCTGCCCTC  
 CCCGCGGGCCAGGGCATGCTCCGTGCCCTGCGCCCGGTCTCGGCGCGGCAGGCGACA  
 CTCCGCGCCGGCGAGACATGAGGCGTGCCGGTGGGCGCCCTGGCCCTGGGGCTGCTG  
 CGCCTCTGCTTGGCTCAGGCCAACTTCGCCCGCACTTCTTCGACAACGGGGTCGGCAGC  
 ACCAACGGAAACATGGCTCTGTTTCAGCCTCCCAGAGGACACCCCTGTAGGCTCTCACGTA  
 TACACCCTGAATGGGACAGACCCCTGAGGGAGACCCCATCTCCTACCACATCAGCTTTGAC  
 CCCAGCACTAGAAGCGTCTTTTCTGTTGACCCCACTTTTGGAAACATCACCCCTGTTGAA  
 GAGCTGGACAGAGAGAGGGAAGATGAGATTGAAGCCATCATCAGCATTTCTGATGGCCTG  
 AATCTGGTGGCCGAAAAAGTCGTGATCCTGGTGACCGATGCCAATGATGAGGCGCCAGG  
 TTCATCCAGGAGCCTTATGTTGCCCTGGTTCCCGAGGACATACCTGCTGGGAGCATCATC  
 TTTAAGGTCCATGCAGTGGACAGGGACACAGGCTCTGGAGGGAGTGTACCTACTTCCTG  
 CAGAACCTGCACTCCCCATTTGCCGTGGACCGCCACAGCGGTGTGCTGCGCCTCCAGGCT  
 GGGGCCACTCTGGACTACGAGAGGTCCCGACCCACTACATCACCGTGGTCGCCANAGAT  
 GCGGGTGGNAGGCTCATGGGGCTGATGTGGTGGTCTCAGCCACCACACGGTACACGGTCA  
 TGTGGGAGATG

**Restriction Sites:**

NotI-NotI

**ACCN:**

BC038799

**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](mailto: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:**

[BC038799.1](#), [AAH38799.1](#)

**RefSeq Size:**

2773 bp

**RefSeq ORF:**

2235 bp

<b>Locus ID:</b>	92211
<b>Cytogenetics:</b>	10q23.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	<p>This gene belongs to the cadherin superfamily of calcium-dependent cell adhesion molecules. The encoded protein is a photoreceptor-specific cadherin that plays a role in outer segment disc morphogenesis. Mutations in this gene are associated with inherited retinal dystrophies. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2013]</p>