

## Product datasheet for MC223819

### Pcdh15 (NM\_001142748) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pcdh15 (NM\_001142748) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pcdh15  
**Synonyms:** av; BB078305; ENSMUSG00000046980; Gm9815; nmf19; roda; Ush1f  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223819 representing NM\_001142748  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGTTCTACAGTTTGCTGTCTGGAAGTGTACCCCATGGGATCCTCATTGCCTCTCTCTTGGTAGTCA  
 GCTGGGGCCAGTATGACGATGATTGCAAAGTACTAGGGGAGGACCACCAGCTACTATCGTGCCATTGA  
 TGAAGAGAGTCGAAACGGTACAATTCTGGTGGATAACATGTTGATTAAGGGGACTGCCGGAGGACCAGAC  
 CCCACCATAGAGCTCTCTTTAAAGGACAACGTGGACTACTGGGTGTTGCTGGACCCGTTAAACAGATGC  
 TTTTCTGAACAGTACCGGAAGAGTTCTGGATAGAGACCCACCAATGAACATACACTCCATTGTGGTGCA  
 AGTCCAGTGTGTCAACAAGAAGTTGGCACAGTTATCTATCATGAAGTACGCATCGTGGTGGGAGATCGG  
 AATGACAACTCCCCACATTCAAGCATGAAAGCTACTATGCCACCGTGAATGAGCTCACTCCAGTTGGCA  
 CCACGATATTCACGGGGTTCCTGGGAGACAATGGAGCTACAGACATAGACGATGGCCCTAATGGACAGAT  
 AGAATACGTGATTCAGTACAACCCAGAAGATCCGACATCCAACGACACCTTTGAAATCCACTCATGCTG  
 ACTGGCAACGTGGTACTGAGGAAAAGACTCAACTATGAGGATAAGACTCGCTACTATGTCATCATCCAAG  
 CAAATGACCGTGCACAAAATCTGAATGAGAGGCGAACAACCACCACCCTCACAGTAGATGTTCTAGA  
 TGGAGATGACCTGGGACCTATGTTTCTGCCTTGTGTTCTTGTGCCAAACACACGTGACTGTCGTCCACTC  
 ACCTACCAAGCTGCCATTCTGAACTGAGGACTCCGGAAGAAGTGAACCTATTTTGGTGACACCACCTA  
 TCCAAGCCATTGATCAGGACCGAAAACATCCAACCACCTCTGATCGACCTGGCATCCTCTACTCCATCCT  
 TGTGCGCACCCCTGAGGATTACCCCGCTTCTTCCATATGCATCCAGGACTGCAGAACTCACTCTCCTG  
 GAGCCAGTAAACAGAGACTTCCATCAAAAATTTGATTTGGTTATTAAGGCTGAGCAGGACAATGGCCACC  
 CACTTCTGCCTTTGCTAGTCTGCACATCGAAATACTAGACGAAAACAATCAGAGTCCATACTTCACAAAT  
 GCCCAGCTATCAAGGATACATCCTGGAATCCGCCCCAGTGGGAGCCACCATTTCTGAGAGCTAACTTA  
 ACCACTCTCTGAGAATTGTAGCTCTGGACAAAGACATAGAAGACACAAAAGATCCAGAGCTCCACCTCT  
 TCTGAAATGACTACACCTCGGTCTTCACTGTGACACCCACTGGTATCACCCGCTAGCTCACCTGCTTCA  
 ACCTGTGGACAGGGAGGAACAGCAAACCTACACCTTTCTGATAACAGCGTTTGTGGCGTGCAAGAAAGT  
 GAGCCAGTCGTGGTCAATATCCGAGTGTGGATGCAAAATGATAACACGCCACCTTCCCTGAAATCTCCT



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ATGATGTCTATGTTTACACAGACATGAGTCCTGGGGACAGCGTCATTAGCTGACAGCGGTAGATGCTGA  
TGAAGGCTCTAATGGGGAGATCTCTATGAAATACTGGTGGGGGCAAGGGAGACTTCGTGATCAACAAG  
ACCACAGGGCTGGTGAGCATTGCACCAGGCGTGGAGCTGATCGTGGGACAGACGTATGCGCTCACAGTGC  
AGGCTTCGGACAACGCCCCGCTGCAGAAAAGAGGCACTCCATCTGCACAGTGTACATCGAGGTGCTTCC  
TCCTAACAAACCAGAGCCCTCCCCGCTTCCCGCAGCTGATGTACAGTCTGGAAGTCAGCGAGGCCATGAGG  
ATCGGTGCTATTTTATTAATCTACAGGCAACTGATCGAGAGGGAGATCCAATCACATATGCCATCGAGA  
ATGGAGACCCTCAGAGAGTTTTTAACTTTTCAGAAAACCACAGGGATTCTCAGCCTAGGGAAGGCTCTAGA  
CCGCGAGAGCACAGACCGCTACATCCTCATCGTACAGCCTCAGATGGCAGACCGGATGGAACCTCAACT  
GCCACTGTGAACATAGTGGTGACGGACGTCAATGACAACGCTCCCGTGTTGATCCCTATCTGCCAGGA  
ACCTCTCTGTGGTGGAGGAAGAAGCCAATGCCTTTGTGGGTCAAGTCCGGGCAACAGACCCAGATGCTGG  
GATAAACGGCCAAGTTCCTACAGCCTGGGGAACCTCAACAACCTCTTCCGCATCACATCCAACGGGAGC  
ATTTACACAGCCGTGAAGCTGAACAGGGAAGCCAGGGACCACTATGAACTGGTTGCTGCGGCAACAGATG  
GAGCAGTCCACCCTCGACATTCAACTCTGACACTGTACATCAAGGTGTTGGACATTGATGATAACAGTCC  
TGTTTTTACCAATTCAACGTACACAGTTGCTGTTGAAGAGAATCTGCCAGCCGGGACCTCCTTTCTTCAA  
ATAGAGGCCAAGGATGTTGACCTTGAGCCAATGTGTCATATCGGATCAGAAGCCAGAAGTGAACACC  
TTTTTGACTGCATCCATTCCTGAGAGAATTGTCTCTTCTGAGGAGTTTGGATTATGAGGCCTTCCGGA  
CCAGGAGGCAAGCATCACATTCTTGGTGGAGGCCCTTTCACATTTATGGGACTATGCCACCTGGTATAGCA  
ACAGTCACGGTAATTGTGAAGGACATGAATGACTACCCTCCAGTGTTAGCAAACGCATCTACAAGGGGA  
TGGTGGCTCCAGATGCAGTCAAGGGGACACCAATCACCACCGTTTATGCTGAAGATGCGGACCCACCTGG  
GATGCCTGCAAGTAGGGTGAAGTATCGAGTGGACGACGTGCGATTTCCATACCCAGCCAGTATTTTTGAT  
GTAGAGGAAGATTCTGGAAGAGTAGTAACCCGCGTCAATCTTAATGAAGAGCCTACTACGATTTTCAAGC  
TGGTGGTTGTGGCTTTTGTGACGGCGAACCTGTGATGTCCAGCAGTCCACGGTGAAGTCTTGTCTT  
ACATCTGGAGAGATCCCACGCTTCACCCAAGAGGAATACAGACCTCCTCCTGTAAGTGAAGTCTGGGCC  
AGAGGGACTGTAGTTGGTGTCTTTCTGCTGCTGCCATTAATCAGAGCATCGTGTACTCCATTGTGGCAG  
GAAATGAGGAAGACAAGTTTGAATCAACAATGTCACTGGGGTCACTATGTGAATTCACCATTTGATTA  
CGAGACAAGGACCAGCTATGTGCTCCGGGTACAAGCAGATTCTCTGGAAGTGGTCTTCCCAATCTCCGA  
GTCCCTTCAAAAAGTCTGTCTGTGATACCATGTTTCATGGAGAACCAGGTGTCAAAGTCTCTAGGACTGG  
AGCTAGGGGTGCTGTGAGCCACAGTGTGGAATCTGGAAGTGAAGTGGTCTCTACAAGAGCAGCAAG  
TGTTCTATCCACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001142748
- Insert Size:** 3516 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).

**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\\_001142748.1](#), [NP\\_001136220.1](#)

**RefSeq Size:** 4939 bp

**RefSeq ORF:** 3516 bp

**Locus ID:** 11994

**UniProt ID:** [Q99PJ1](#)

**Cytogenetics:** 10 37.43 cM

**Gene Summary:** Calcium-dependent cell-adhesion protein. Required for inner ear neuroepithelial cell elaboration and cochlear function. Probably involved in the maintenance of normal retinal function.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (N) lacks an alternate in-frame exon in the 5' coding region and has a distinct 3' splice pattern, compared to variant A. The resulting isoform (SI-2), also known as protocadherin-15-secreted isoform 2, lacks a 5-aa segment near the N-terminus and has a substantially shorter and distinct C-terminus, compared to isoform CD1-1.