

## Product datasheet for MC224629

### Pcdh15 (NM\_001142743) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pcdh15 (NM_001142743) 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:	>MC224629 representing NM_001142743 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTTCTACAGTTTGCTGTCTGGAAGTGTACCCCATGGGATCCTCATTGCCTCTCTCTTGGTAGTCA  
GCTGGGGCCAGTATGACGATGATTGCAAACCTAGCTAGGGGAGGACCACCAGCTACTATCGTGCCATTGA  
TGAAGAGAGTCGAAACGGTACAATTCTGGTGGATAACATGTTGATTAAGGGGACTGCCGGAGGACCAGAC  
CCCACCATAGAGCTCTCTTTAAAGGACAACGTGGACTACTGGGTGTTGCTGGACCCCGTTAAACAGATGC  
TTTTCTGAACAGTACCGGAAGAGTTCTGGATAGAGACCCACCAATGAACATACACTCCATTGTGGTGCA  
AGTCCAGTGTGTCAACAAGAAGTTGGCACAGTTATCTATCATGAAGTACGCATCGTGGTGGGAGATCGG  
AATGACAACTCCCCACATTCAAGCATGAAAGCTACTATGCCACCGTGAATGAGCTCACTCCAGTTGGCA  
CCACGATATTCACGGGGTTCCTGGGAGACAATGGAGCTACAGACATAGACGATGGCCCTAATGGACAGAT  
AGAATACGTGATTCAGTACAACCCAGAAGATCCGACATCCAACGACACCTTTGAAATCCACTCATGCTG  
ACTGGCAACGTGGTACTGAGGAAAAGACTCAACTATGAGGATAAGACTCGCTACTATGTCATCATCCAAG  
CAAATGACCGTGCACAAAATCTGAATGAGAGGCGAACAACACCACCCTCACAGTAGATGTTCTAGA  
TGGAGATGACCTGGGACCTATGTTTCTGCCTTGTGTTCTTGCCAAACACACGTGACTGTCGTCCACTC  
ACCTACCAAGCTGCCATTCTGAACTGAGGACTCCGGAAGAAGTGAACCTATTTTGGTGACACCACCTA  
TCCAAGCCATTGATCAGGACCGAAAACATCCAACCACCTCTGATCGACCTGGCATCCTCTACTCCATCCT  
TGTCGGCACCCCTGAGGATTACCCCGCTTCTTCCATATGCATCCAGGACTGCAGAACTCACTCTCCTG  
GAGCCAGTAAACAGAGACTTCCATCAAAAATTTGATTTGGTTATTAAGGCTGAGCAGGACAATGGCCACC  
CACTTCTGCCTTTGCTAGTCTGCACATCGAAATACTAGACGAAAACAATCAGAGTCCATACTTCACAAAT  
GCCAGCTATCAAGGATACATCCTGGAATCCGCCAGTGGGAGCCACCATTTCTGAGAGCTAACTTA  
ACCACTCTCTGAGAATTGTAGCTCTGGACAAAGACATAGAAGACACAAAAGATCCAGAGCTCCACCTCT  
TCTGAAATGACTACACCTCGGTCTTCACTGTGACACCCACTGGTATCACCCGCTAGCTCACCTGCTTCA  
ACCTGTGGACAGGGAGGAACAGCAAACCTACACCTTTCTGATAACAGCGTTTGTGGCGTGCAAGAAAGT  
GAGCCAGTCGTGGTCAATATCCGAGTGTGGATGCAAAATGATAACACGCCACCTTCCCTGAAATCTCCT



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ATGATGTCTATGTTTACACAGACATGAGTCCTGGGGACAGCGTCATTAGCTGACAGCGGTAGATGCTGA  
TGAAGGCTCTAATGGGGAGATCTCCTATGAAATACTGGTGGGGGCAAGGGAGACTTCGTGATCAACAAG  
ACCACAGGGCTGGTGAGCATTGCACCAGGCGTGGAGCTGATCGTGGGACAGACGTATGCGCTCACAGTGC  
AGGCTTCGGACAACGCCCCCGCTGCAGAAAAGAGGCACTCCATCTGCACAGTGTACATCGAGGTGCTTCC  
TCCTAACAAACCAGAGCCCTCCCCGCTTCCCGCAGCTGATGTACAGTCTGGAAGTCAGCGAGGCCATGAGG  
ATCGGTGCTATTTTAAATCTACAGGCAACTGATCGAGAGGGAGATCCAATCACATATGCCATCGAGA  
ATGGAGACCCCTCAGAGAGTTTTTAACTTTTCAGAAACCACAGGGATTCTCAGCCTAGGGAAGGCTCTAGA  
CCGCGAGAGCACAGACCGCTACATCCTCATCGTACAGCCTCAGATGGCAGACCGGATGGAACCTCAACT  
GCCACTGTGAACATAGTGGTGACGGACGTCAATGACAACGCTCCCGTGTTGATCCCTATCTGCCAGGA  
ACCTCTCTGTGGTGGAGGAAGAAGCCAATGCCTTTGTGGGTCAAGTCCGGGCAACAGACCCAGATGCTGG  
GATAAACGGCCAAGTTCCTACAGCCTGGGGAACCTCAACAACCTCTCCGCATCACATCCAACGGGAGC  
ATTTACACAGCCGTGAAGCTGAACAGGGAAGCCAGGGACCACTATGAACTGGTTGCTGGCAACAGATG  
GAGCAGTCCACCCTCGACATTCAACTCTGACACTGTACATCAAGGTGTTGGACATTGATGATAACAGTCC  
TGTTTTTACCAATTCAACGTACACAGTTGCTGTTGAAGAGAATCTGCCAGCCGGGACCTCCTTTCTCAA  
ATAGAGGCCAAGGATGTTGACCTTGAGCCAATGTGCATATCGGATCAGAAGCCAGAAGTGAACACC  
TTTTTGACTGCATCCATTCCTGAGGAAATTGCTCTTCTGAGGAGTTGGATTATGAGGCCCTTCCGGA  
CCAGGAGGCAAGCATCACATTCTGGTGGAGGCCCTTTCACATTTATGGGACTATGCCACCTGGTATAGCA  
ACAGTCACGGTAATTGTGAAGGACATGAATGACTACCCTCCAGTGTTCAGCAAACGCATCTACAAGGGGA  
TGGTGGCTCCAGATGCAGTCAAGGGGACACCAATCACCACCGTTTATGCTGAAGATGCGGACCCACCTGG  
GATGCCTGCAAGTAGGGTGAAGTATCGAGTGGACGACGTGCGATTTCCATACCCAGCCAGTATTTTTGAT  
GTAGAGGAAGATTCTGGAAGAGTAGTAACCCGCGTCAATCTTAATGAAGAGCCTACTACGATTTTCAAGC  
TGGTGGTTGTGGCTTTTGTGACGGCGAACCTGTGATGTCAGCAGTGCACGGTGAAGATTCTTGTCTT  
ACATCTGGAGAGATCCCACGCTTCAACCAAGAGGAATACAGACCTCCTCTGTAAGTGAAGTTCGGCC  
AGAGGGACTGTAGTTGGTGTCAATTCGTGCTGCCATTAATCAGAGCATCGTGTACTCCATTGTGGCAG  
GAAATGAGGAAGACAAGTTTGAATCAACAATGTCACTGGGGTCACTATGTGAATTCACCATTTGGATTA  
CGAGACAAGGACCAGCTATGTGCTCCGGGTACAAGCAGATTCTCTGGAAGTGGTCTTCCCAATCTCCGA  
GTCCCTTCAAAAAGCAATACAGCTAAGGTGTACATTGAGATTGAGGATGAAAACGATCACCCCCAGTGT  
TCCAGAAGAAATCTACATTGGAGGTGTGTCTGAAGACGCAAGGATGTTCCGATCTGTGCTCAGAGTGAA  
GGCCACCACAGGGACACGGTAATTACAGTGCCTGGCTACCAGGCTCATACACCGGATTAAGAG  
GGCAAAGAGGGGTTTGTGGTGGAAACATACACAGGTCTCATCAAGACAGCCATGCTTCCACAATATGA  
GAAGATCTACTCAAGTTTCAAGTATTGCAACTGACGACTACGGGAAGGGTTGAGCGGAAAGCAGA  
CGTACTGGTCTCCGTGGTCAATCAACTGGATATGCAGGTATTGCTCCAATGTGCCCCCTACACTAGT  
GAAAAGAAGATAGAAGACCTTACAGAGATTTTGGATCGCTACGTTGAGGACAAATTCCTGGTGCCAAGG  
TTGTGGTGGAGTCCATAGGTGCCCGTCGCCATGGAGACGCTACTCCCTAGAAGACTATAGCAAGTGCGA  
CCTGACTGTCTATGCCATCGACCCGACACCAACAGAGCCATCGACAGAAATGAGCTTTTAAAGTTCCTG  
GACGGCAAACCTGCTCGATATCAATAAAGACTTCCAGCCGATTACGGGGAAGGAGGGCGCATTCTGGAGA  
TTCGGACACCTGAGGCAGTGACGAGCATCAAGAAGCGAGGAGAAAGCTTGGGTACACAGAAGGGGCCTT  
GCTGGCCTTGGCCTTCAATCATCTCTGTGTCATCCAGCCATCTTGGTGTCTTAGTAAAGTACCGA  
CAGTTTAAAGTACGCCAGGCTGAGTGCACGAAGACCGCAAGAATTCAGTCTGCTATGCCTGCAGCCAAGC  
CTGCAGCTCCTGTACCAGCTGCGCCTGCGCCGCCCGCCCGCCACCACCACCAGGAGCACATCT  
CTATGAAGAAGTGGGAGAGCGCAATGCATAAGAGTTATCCATGGAATCTGGGATTGATCCTGGCCAGG  
AATATGGACAAGATTATTACAGTTATGAGCATGGGTATGAGATGCCCCAGTATGGAAGTCCCGCTCGACT  
GCTGCCACCTGCTGGACAGGAGGAATACGGCGAAGTCAATGGTGAAGCTGAAGAGGAATATGAAGAAGAA  
GAGGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001142743  
**Insert Size:** 4557 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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>	<u><a href="#">NM_001142743.1</a></u> , <u><a href="#">NP_001136215.1</a></u>
<b>RefSeq Size:</b>	6338 bp
<b>RefSeq ORF:</b>	4557 bp
<b>Locus ID:</b>	11994
<b>UniProt ID:</b>	<u><a href="#">Q99PJ1</a></u>
<b>Cytogenetics:</b>	10 37.43 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (J) 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 (CD2-2), also known as protocadherin-15-CD2 isoform 2, lacks a 5-aa segment in the 5' coding region and has a distinct and longer C-terminus, compared to isoform CD1-1.</p>