

## Product datasheet for **MC224035**

### **Pcdh9 (NM\_001081377) Mouse Untagged Clone**

#### Product data:

|                           |                                                                                    |
|---------------------------|------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                |
| Product Name:             | Pcdh9 (NM_001081377) Mouse Untagged Clone                                          |
| Tag:                      | Tag Free                                                                           |
| Symbol:                   | Pcdh9                                                                              |
| Mammalian Cell Selection: | Neomycin                                                                           |
| Vector:                   | pCMV6-Entry (PS100001)                                                             |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                               |
| Fully Sequenced ORF:      | >MC224035 representing NM_001081377<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGACCTGAGGGATTTTACCTGTTGGCTGCTCTGATTGCCTGTTTAAGGCTGGATTCCGCAATAGCTC  
AAGAACTTATTTACACTATTAGAGAGGAATTGCCTGAAAATGTGCCCATAGGAAATATACCAAAGGATCT  
GAATATTTCTCACATCAATGCTGCCACGGGGACCAGTGCCAGCCTTGCTACAGACTGGTTTCAAAGCT  
GGGGATGCCCCCTCTGGTGAAGTATCGAGTAGCACTGGGGAGATTTTACAACCTCCAACAGAATAGACA  
GAGAGAACTCTGTGCTGGGGCTTCATACGCTGAGGAGAACGAGTGCTTCTTTGAACCTGAAGTAGTGAT  
CCTCCCCAATGACTTTTTTCAGGCTGATCAAAATCAAGATCATTGTCAAGGATACCAATGATAATGCCCCC  
ATGTTTCCGTCTCCTGTCAATATTTCCATCCAGAGAACACTTTGATCAACAGCCGCTTTCCAATCC  
CATCAGCCACAGACCCTGACACGGGCTTCAATGGGGTACAGCATTATGAATTACTAAATGGACAGAGTGT  
TTTTGGACTGGATATCGTGGAACTCCGGAGGGAGAAAAGTGGCCGCAATTGATTGTTTCAGCAGAACTTG  
GATAGAGAACAAAAGATACCTATGTGATGAAAATCAAAGTGGAGGATGGGGGCACGCCACAGAAATCGA  
GCACAGCTATTCTCCAGGTCACAGTAAGTGATGTCAATGACAACAGGCCAGTGTTTAAAGAGGGTCAAGT  
AGAAGTGCATATTCCAGAGAATGCTCCTGTGGGACCTCTGTCAATCAGCTCCATGCCACTGATGCAGAC  
ATAGGCAGTAATGCTGAAATCCGGTATATTTTTGGTGCCAGGTCGCCCTGCAACCAAAAGACTCTTTG  
CTTTAAATAATACTAACTGGGCTGATAACAGTTCAGAGGTCTTTAGATAGGGAAGAGACAGCCATTACAA  
AGTGACAGTGCTGGCTAGTGACGGCAGCTCCACTCCTGCCAGAGCCACCGTGACCATCAATGTCACCGAT  
GTAAATGATAACCCTCCAACATAGACCTCAGGTACATTATAAGTCCCATCAATGGCACAGTGATCTCT  
CTGAGAAAGACCTGTCAATACAAAGATTGCCCTCATTACAGTTTCAGATAAGGACACAGATGTGAATGG  
CAAAGTGATCTGTTTTATTGAAAGAGAGGTCCCATTTCATTTGAAGGCAGTGATGACAACCAAGTATCTG  
CTAGAGACCTCTCTCTGCTGGACTATGAGGGCACCAAGAATTACAGCTTTAAAAATCGTTGCCTCTGATT  
CGGGGAAGCCAGTTTGAATCAGACTGCCCTGGTAAGGGTTAAGCTCGAGGATGAAAATGACAACCCACC  
AATTTTCAACCAGCCTGTAATTGAGCTGTCAGTTTCTGAAAACAACCGACGTGGGTTATACTTAACAAT  
ATTATGCTACAGATGAAGACAGTGGAAGAAATGCAGACATTGTTTATCAGCTTGACCCGAATGCCCTCT  
TCTTTGATCTGGACAGAAAGACAGGAGTTTGGACAGCCTCCAGAGTCTTTAACAGGGAGGAACAAGAGCG



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GTTCATTTTACAGTAAGTCCAGGGACAATGGGACCCCTCCCCTCCAGAGCCAAGCAGCAGTGATAGTT  
 ACTGTTCTGGATGAGAATGACAATAGCCCCAAGTTTACTCATAATCACTTTCAGTTTTTGTGTCTGAGA  
 ATCTGCCAAAGTATAGTACTGTGGGGTAATCACAGTGACAGACGAAGACGCTGGAGAGAATAAAGCTGT  
 GACTCTTTCCATTCTAAATGACAATGAAAAATTTGTGTTGGATCCCTATTCAGGAGTCATAAAGTCCAAT  
 GTCTCCTTTGATAGAGAGCAGCAGAGTTCTACACGTTTGACGTCAAAGCCACCGACGGGGACAGCCAC  
 CACGGTCTCTACTGAAAAGTAAGTATCAATGTCATGGATGTCAATGACAATAGTCCAGTTGTCATTTT  
 TCCACCATCCAACACCTCCTTTAAGTTGGTGCCCTCTCAGCCATTCTGTTTCTGTGGTTGCTGAAGTG  
 TTTGCGGTGGATATTGACACCGGAATGAATGCAGAACTCAAGTATACCATAGTGAGCGGGAACAACAAGG  
 GATTATTTTCGATTGATCCAGTAACAGGCAATATCACCTTAGAAGAGAAGCCAGCACCTACTGATGTGGG  
 CCTGCACCGTCTTGTGGTCAACATAAGTGACCTGGGGTACCCTAAGGCTTTGCACACTCTCGTGTGGTA  
 TTTCTTTATGTGAACGACACTGCTGAAACACCTCATATATATGACTTGATCCGTAGGACTATGGAGA  
 CCCCACTGGACCGGAACATAGGAGATAGTGGTCAACCTTATCAGAACGAGGACTATCTCACCATCATGAT  
 TGCCATCGTTGCTGGGGCCATGGTGGTCATTGTTGTGATCTTTGTACGGTGCTGGTGCCTGTGCCAT  
 GCGTCCAGGTTCAAGGCCGCTCAGAGGAGCAAACAAGGGGCTGAATGGATGTCCCAAACAGGAGAATA  
 AACAAAATAAGAAAAAGAAACGGAAGAAAAAGTGCCTCAAGAGTTCTCTTTTGAACCTTGTACTAT  
 TGAAGAGTCCAAACCGATGATGCCGTTTCAATGAACCATCAATGGGACCATAGCCCTGCCTGCCAGCTG  
 GAGGAACAGGGTATAGGAAGATTTGACTGGGGCCAGCCCTCCAACACCTTCAAGCCTAACAGCCCTG  
 ACCTGGCCAAGCACTACAAGTCGGCCTCTCCTCAGCCGCTTTTCATCTCAAACCTGACACTCCAGTTTC  
 TGTGAAAAAGCACCACGTCATTCAAGAGCTCCCGTTGGACAACACCTTTGTTGGGGGCTGCGACACCTT  
 TCCAAACGCTCCTCCACTAGTTCAGATCACTTCAGTGCTCAGAGTGACGCTCCCAAGGAGGCTTCAAGA  
 CAAAGGGCCCCCTACACACCAGACAGTGAAGTCAACAGCAAAATGACAATATTCCTGTCACACATCA  
 GAAATGTCCCGGCTCTACCAGTTTCCACATTCGAGAGAATGAAGAAAGTCATTCTGAGTCTCAGCGCCGT  
 GTTACCTTTCACCTTCCGGATGGCTCCAGGAAAGCTGCAGTGACAGTGGTCTGGGAGACCACGAGCCGG  
 TGGGTAGTGGAACCTGATCTCACACCCTCTTCTCTGGTTTCAAGCACAGGACGAATTCTACGACAGGC  
 CTCTCCGACAAGAGGACCGAAGCAGATGGCAACTCGGATCCCAATTCTGATGGACCTCTGGGTCCCGA  
 GGTTTAGCTGAAGCTACAGAGATGTGCACTCAAGAGTGTCTGGTTTGGGTCACTCTGATAATTGCTGGA  
 TGCCTCTGGCTTGGGTCCATACCAACACCCTAAATCTCCTCTGTCAACCTTTGCACCCAGAAAGAATG  
 GATCAAGAAAGACAAGCTTGTGAATGGGCACACCCTGACAAGAGCGTGGAAAGAAGACCAACAGGAAC  
 CAATTCAATGACCGTAAGCAGTATGGCTCCAATGAAGGCCATTTCAACAATGGCGGCCACATGGCGGACA  
 TTCCTCTGGCAAATCTGAAGTCTATAAGCAAGCAGGAGGCACGATTGAGAGTCTAAGGAGCACCAACT  
 TTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM\_001081377

Insert Size:

3714 bp

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Disclaimer:</b>        | <p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p> |
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq:</b>                | <a href="#">NM_001081377.2</a> , <a href="#">NP_001074846.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>RefSeq Size:</b>           | 5682 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RefSeq ORF:</b>            | 3714 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Locus ID:</b>              | 211712                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Cytogenetics:</b>          | 14 45.8 cM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene Summary:</b>          | <p>This gene encodes a member of the protocadherin family, and cadherin superfamily, of transmembrane proteins containing cadherin domains. These proteins mediate cell adhesion in neural tissues in the presence of calcium. The encoded protein may be involved in signaling at neuronal synaptic junctions. Sharing a characteristic with other protocadherin genes, this gene has a notably large exon that encodes multiple cadherin domains and a transmembrane region. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2012]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a, also known as 3). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>                                                             |