

## Product datasheet for MC223860

### Pcdh12 (NM\_017378) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pcdh12 (NM\_017378) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pcdh12  
**Synonyms:** Pcdh14; VE-cad-2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223860 representing NM\_017378  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATGCTACTTCTGCCATTCTGCTAGGGCTCTTAGGGCCAGGAAGCTACTTGTTTCATTTAGGGGATT  
 GTCAGGAGGTGGCCACTGTCATGGTCAAATTCAGTGACAGAGGAAGTGCCGCTGGCACGGTGATAGG  
 GAAACTGTCCCAAGAAGTAAGAGTGGAGGAGAGGCGTGGGAAGGCAGGAGATGCCTTCCAGATTCTGCAG  
 CTGCCTCAGGCACTGCCGTTTCAGATGAACTCTGAGGACGGCCTGCTCAGCACTTCCAGCCGGCTGGATC  
 GGGAGAAGCTATGTCGGCAGGAAGATCCCTGTCTGGTGTCAATTTGACGTGCTTCCACAGGGGCGTCTGC  
 TCTAATTCATGTGGAGATTCAAGTGTAGACATCAATGACCACCAGCCACAGTTTCCCAAAGACGAGCAG  
 GAACTGGAAATCTCAGAGAGTGCCTCTCTGCACACACGAATCCCCTTGGACAGAGCTCTTGACCAAGACA  
 CGGGTCTAACAGCTTATATTCTACTCCCTGTCTCCAGTGAACACTTTGCCCTGGATGTTATTGTGGG  
 CCCTGATGAGACCAAAATGCAGAGCTTGTGGTGGTGAAGGAGTTGGACAGGGAAGTCCACTCATATTTT  
 GATCTGGTGTGACCCCTATGACAATGGGAATCCCCTAAGTCAGGAATCAGCGTGGTCAAGGTCAATG  
 TCCTGGACTCCAATGACAATAGTCCAGTGTGGTGTGAGAGTTCACTAGCACTAGAAATCCAGAGACAC  
 TGTTCTGGTACTCTTCTCATAAACCTGACTGCTACAGATCCCGACCAAGGACCCAATGGGGAGGTAGAG  
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 AGCATCTCATCAGTGGGCTCCAGACGTGCTGGTGTGAGAAGATCTTCCAGGGATAGCTTCATTG  
 CCCTTGTGAGTGCATGACTTGGACTCAGGAAACAACGGTCTCGTCCACTGTTGGCTGAATCAAGAGCT  
 GGGCCACTTCAGACTGAAAAGGACTAACGGCAACACGTACATGCTGCTCACCATGCCACTGGACAGA  
 GAGCAGTGGCCATATATACTCTACTGTGTTTGGCCAAAGACCAAGGACCCAGCCCTTATCAGCTGAGA  
 AGGAGCTCCAAATTCAGTTAGTGATGTCAATGACAATGCCCTGTGTTGAGAAGAGCCGGTACGAGGT  
 CTCCACTTGGGAAAATAACCCACCTCTTTCACCTCATCAGCTCAAAGCGCATGATGCTGACTTGGGG  
 AGTAATGGAAAAGTGTCATACCGTATCAAGGACTCCCCGTTTCTCACTTAGTCATTATTGACTTTGAAA



CAGGAGAAGTCACTGCTCAGAGGTCACTGGACTATGAACAGATGGCAGGCTTTGAGTTCAGGTGATAGC  
 AGAGGACAGAGGGCAACCCAGCTCGCATCCAGCATCTCGGTGTGGGTTAGCCTCTTGGATGCCAATGAT  
 AATGCCCCAGAAGTGATTCAGCCTGTGCTCAGTGAAGGCAAAGCCACCCTTTTCGGTGTGTTAAATGCCT  
 CCACGGGCCACCTTCTGTTGCCATTGAGAATCCCAGTGGCATGGATCCAGCAGGTAAGTATACCACC  
 AAAGGCTACCCACAGCCCTGGTCTTTCCTTTTGTAAACAATCGTGGCTAGGGATGCAGACTCGGGGCC  
 AATGGGGAACCTTCTACAGCATTCAAAGTGGGAATGATGCTCATCTCTTTTTCAGCCCTTCTTGG  
 GGCAGCTATTCATTAATGTCCCAATGCCAGCAGCCTCATCGGGAGTCAGTGGGACCTGGGGATAGTGGT  
 AGAGGACCAGGGCAGCCCTCCTTGCAGACCCAAGTTTCATTGAAGGTCGTGTTTGCACCAAGTGTGGAC  
 CACCTAAGGGATTCTGCTCATGAGCCCGGAGTTCTGAGCACACCAGCACTGGCTTTGATCTGCCTGGCTG  
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 CAGAAGGCAGATATCCACCTGGTGCCTGTGCTTAGGGCCACGAGAATGAGACTGATGAAGTCAGGCCAT  
 CTCACAAGGATACCAGCAAGGAGACTGATGGAGGCAGGCTGGACTCTTGCCTGCAGGCCCTTCCA  
 CCTCACACCAACCCTATACAGGACCCTGCGTAACCAAGGCAACCAGGGAGAAGTGGCAGAGGCCAGGAG  
 GTACTGCAGGACACCTTCACTTTCTTTAAACCATCCCAGGCAGAGGAATGCCTCCCGGAGAACCTAA  
 ACCTTCTGAGTCCCACCTGCTGTACGCCAACCACTCTTAAGGCTCTGAAGGTGCCTGGTAGCCCAT  
 AGCGAGGGCGACTGGAGACCAAGACAAGGAGGAGGCCCCACAGAGCCACCAGCGTCTCTGCAACCCTA  
 AGACGACAGCGGAATTTCAATGGCAAAGTGTCTCCTAGAGGAGAGTCCGGTCTCATCAGATTCTGAGGA  
 GCCTGGTTAGGCTCTCTGTGGCTGCTTTTGCGGAACGGAACCCGGTGGAGGAGCCTGCTGGGGACTCTCC  
 TCCTGTCCAGCAAATCTCCAGCTGCTGTCTTGTCTGCACCAGGGCCAATTCAGCCAAACCAACCCAC  
 CGAGGAAATAAATACTTGGCCAAGCCCGGCGGCAGCAGAGGGGTACCATCCCAGACACAGAGGGCCTTG  
 TAGGCCTCAAGCCTAGTGGTCAAGCAGAACCTGACCTGGAAGAAGGGCCCCGAGCCCGGAGGAGGACCT  
 TTCTGTAAGCGACTTCTAGAAGAAGAGCTGTCGAGCCTGTTGGACCCTAATACAGGTCTAGCCCTGGAC  
 AAGCTGAGTCCGCCTGACCCAGCCTGGATGGCGAGATTGTCATTGCCCTCACCACCAATTACCGAGACA  
 ACTTGTCTTCCCGATGCTACAACGTCAGAGGAACCGAGAACCTTCCAGACATTCGGAAGACAGTTGG  
 ACCGGGACCCGAGCTGAGCCCAACAGGCACGCGCTGGCCAGCACTTTCGTCTCGGAGATGAGCTCTCTG  
 CTGGAAATGTTGTTGGGGCAGCACAGGTACCAGTGGAAAGCTGCGTCCGCGGCTTTGCGGAGGCTCTCGG  
 TGTGCGGGAGGACCCTCAGTCTAGACCTAGCCACCAGTGGGGCCTCAGCTTCAGAAGCACAGGGTAGAAA  
 GAAGGCAGCTGAGAGCAGACTTGGCTGTGGCAGGAATCTATGA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_017378
- Insert Size:** 3543 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\\_017378.2](#), [NP\\_059074.2](#)

**RefSeq Size:** 5587 bp

**RefSeq ORF:** 3543 bp

**Locus ID:** 53601

**UniProt ID:** [O55134](#)

**Cytogenetics:** 18 B3

**Gene Summary:** Cellular adhesion molecule that may play an important role in cell-cell interactions at interendothelial junctions (PubMed:9651350). Acts as a regulator of cell migration, probably via increasing cell-cell adhesion (By similarity). Promotes homotypic calcium-dependent aggregation and adhesion and clusters at intercellular junctions (PubMed:9651350). Unable to bind to catenins, weakly associates with the cytoskeleton (PubMed:9651350). [UniProtKB/Swiss-Prot Function]