

Product datasheet for **MC223438**

Pcdh8 (NM_021543) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pcdh8 (NM_021543) Mouse Untagged Clone
Tag: Tag Free
Symbol: Pcdh8
Synonyms: 1700080P15Rik; P; Papc
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223438 representing NM_021543
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGAGTCTCGGAAGCGCTGGGGCAGCCCTTGCCTTTCCCTTGCAGCTATTTAGTCTCTGCTGGGTGC
TCTCAGTGGCCCAGAGCAAGACAGTCCGATACAGCACGTTGGAAGAGGATGCCCCGGCACAGTCATCGG
AACCTTGCAGAAGACCTGCACATGAAAGTGTCTGGAGACACAAGCTTCCGCCTGATGAAGCAATTAAC
AGCTCTCTGCTCCGGGTACGCGAGGGCGACGGGACGCTGACCGTCCGGGATGCGGGCCTGGACCGTGAGC
GTCTGTGTGGCCCGTCCCACAGTGCCTGCTGGCCTTCGATGTTGTGACGTTCTCGCAGGAACAGTTCGG
CCTGGTGCACGTGGAGGTGGAGGTGAGGGATGTAACGACCACGCGCCCCGCTTTCCCGAGCCCAGATC
CCGGTGGAGGTCTCAGAGAGCGCTCCGGTAGGCACACGCATCCCCCTGGAGGTGCCCGTGGACGAGGACG
TGGGTGCCAACGGGCTGCAGAGTGTACGCTAGCCGAGCCTCACAGCCCCCTCCGCGTGGAGCTGCAGAC
GCGCGCGGACGGTGCCAGTGTGCGGACCTGGTGTGCTACAGGAGTTGGACCGGAGAGCCAGGCTCC
TACAGCCTGGAGCTGGTGGCTCAGGATGGCGGGGACCGCCGCTTCCGCCACAGCAGCCCTCAGCGTGC
GTGTGCTAGATGCCAATGACCACAGCCCCGCTTCCCACAGGTGCCGTGGCAGAGGTGGAATGGCCGA
GGACGCACCTGTGGGATCGCTGCTGCTGACCTGGACGCTGCCGATCCCGACGAAGTCCCAACGGCGAC
GTTGTGTTACCTTCGGCGCCCGCACCCCTCCCAGGCCCCGACCTCTTCCGGCTCGACCCGCGCTCTG
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GCTCCTGAAATTTCTATCACTCCTCTGGCCGCCCGGGGCTCCAGCCACCTCGCCCTTCGCGCCGCCG
CCGCTGCCCGCACTCGGAGGAGCGGACGCGCCTCGTCTGACTGGTCCGGGACACAGGAAGCCGGTAT
CACCTCGTGGTCCAGAGGGGGCGCGCGAGAGTCTAGTGGCGCTGGTACGACCTCGGACAGGGAC
TCGGGCGCAACGGGCGAGGTGCGCTGCGCCCTTACGGGACGAGCACTTAGGCTGCAGCCGGCCTATG
CTGGCAGCTACCTGGTGGTGAACGCTGCATCTCTGGACCGGGAGCGCATCGCGGAGTACAACCTGACGCT
GGTGGCCGAAGACCGTGGCACACCCCTTTCGCACCGTACGGCCCTACCGTGCAGTGGGGGACGAG
AACGACAACGCACCGATCTTACCAAGCCAGTCTATGAGGTGTGGTCCGCGAAAACAACCTCCAGGCG



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CCTACCTGGCCACAGTGGCAGCCCGGACCCTGACGTGGGTGCGAACGGTCAAGTACCTACCGCCTGGT
AGAGGCCGAAGTGGGCCCTCTGGGGAAGCCGTGCCACTACGTCTCAGTAGACCCGGCTACCGGAGCC
ATCTACGCTCTCCGTAGTTTTGACTATGAGACTCTGCGCCAGCTTGACGTGCGTGTCCAGGCCAGCGACG
GCGGTTCCCTCAGCTTCCAGCAATGCTCTGGTGCAAGTGGGGTGCTGGACCAGAATGATCATTCTCC
GATCCTTGTGCATCCGGCGCCGGCTAATGGCTCCCTAGAAGTAGCGGTCCCTGGACGTCCACCAAGGAC
ACAGCTGTGGCGGCATCCAGGCCCGGGATGCTGACGAAGGAGCCAACGGGGAACCTGGCCTTTGATCTGC
TGCAGCAGGAGCCACGCGAGGCCTTCCATAGGCCGCCACACGGGGGAGATCATGCTTACTGGAGACCT
CTCGCAGGAGCCTCCTGGCCGCGTGTCAAGGCCCTGCTGGTCATATCCGACGGCGGCCCTCCCTCTC
ACCACCACTGCAACCGTCAGTTTCGTGGTAACAGCCGGGGGCGGGTCAGCTGTGCCTGCCAGCTCCGGGA
GCCAGAGCACTCCCGGCCACCCGGCTCTCGCCTCGCGCCGTCGGGGCCTTCGCTGCAGTGGGACACGCC
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CGACGTGCTCACCTTCCCTGGCAGCGGCAAGCGCCCTTGGCAGCCCCGCGCCGACGCGCCCCCGCC
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TGCTGCGCCCCCTGTTGCAGTCTGGAAGGGTCATTCAACACCATCTCGGGCCGAGAAGCTGAGAAG
TTCAGTGGGAAAGACAGCGGCAAGGAGACAGTATTTCAATGACAGTACTCGGACATCAGCGGGGACG
CTTTGAAAAAAGACCTCATCAACCACATGCAGAGTGGACTGTGGGCGTGTACTGCTGAGTGAAGATCCT
AGGTATTCTGATCGTCTGGAGCCATCCTGTGCCGGACCCACGTACACCCCTCCTCACCCACCA
GCCAGATGTCAACCTTCTGTAAGAGCAGTCCCTGCCTCGGGATCCTCTGCGCAGGGACAATTACTATC
AGGCCAGCTCCCAAGACAGTAGGTTGAGAGCGTCTATGAGAAAGTACTGCATAGAGACTATGACAG
GACAGTCACTTACTCTCCCTCCCGTCCAGGAAGCTCCAGACCTGCAGGAGATTGGAGTACCCCTC
TATGAATCCCCTCCTGGTAGCAGATACGTGTCCCGAAGAAGGGAATCAATGAAAATGTGTA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_021543

Insert Size:

3213 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_021543.4](#), [NP_067518.2](#)

RefSeq Size:

4003 bp

RefSeq ORF: 3213 bp

Locus ID: 18530

UniProt ID: [Q7TSK3](#)

Cytogenetics: 14 42.76 cM

Gene Summary: This gene belongs to the protocadherin gene family, a subfamily of the cadherin superfamily. The gene encodes a type I transmembrane protein composed of an extracellular domain including 6 cadherin ectodomains, a single-pass transmembrane domain and a cytoplasmic tail. Unlike classical cadherins, which are generally encoded by 15-17 exons, this gene includes only 3 exons with the first large exon encoding the extracellular and transmembrane region. Although this gene product is capable of homophilic interaction, it appears to affect cell-cell adhesion indirectly by initiating signaling events that regulate classical cadherin-mediated adhesion. Based on studies on this protein and its orthologs, this protocadherin mainly functions in developing embryos and the central nervous system, but can also function as a tumor suppressor. Alternative splicing yielding isoforms with unique cytoplasmic tails has been reported. [provided by RefSeq, Sep 2009]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).