

## Product datasheet for **MC222897**

### **Pcdh8 (NM\_001042726) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pcdh8 (NM_001042726) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pcdh8
Synonyms:	1700080P15Rik; P; Papc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222897 representing NM\_001042726  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTCTCGAAGCGCTGGGGCAGCCCTTGCCCTTTCCCTTGCAGCTATTTAGTCTCTGCTGGGTGC  
 TCTCAGTGGCCCAGAGCAAGACAGTCCGATACAGCACGTTTCAAGAGGATGCCCTGGCAGCATACGG  
 AACCCCTTGCAGAAGACCTGCACATGAAAGTGTCTGGAGACACAAGCTTCCGCCTGATGAACAAATCAAC  
 AGCTCTCTGCTCCGGGTACGCGAGGGGACGGGCAGCTGACCGTCCGGGATGCGGGCCTGGACCGTGA  
 GTCTGTGTGGCCCGTCCCACAGTGCCTGCTGGCCTTCGATGTTGTGAGCTTCTCGCAGGAACAGTTCGG  
 CCTGGTGCACGTGGAGGTGGAGGTGAGGGATGTAACGACCACGCGCCCGCTTTCCCGAGCCAGATC  
 CCGGTGGAGGTCTCAGAGAGCGTCCGGTAGGCACACGCATCCCCTGGAGGTGCCCGTGGACGAGGACG  
 TGGGTGCCAACGGGCTGCAGAGTGTACGCCTAGCCGAGCCTCACAGCCCTTCCGCGTGGAGCTGCAGAC  
 GCGCGCGACGGTGCCAGTGTGCGGACCTGGTGTGCTACAGGAGTTGGACCGGAGAGCCAGGCTCC  
 TACAGCCTGGAGCTGGTGGCTCAGGATGGCGGGGACCGCCGCTTCCGCCACAGCAGCCCTCAGCGTGC  
 GTGTGCTAGATGCCAATGACCACAGCCCGCCTTCCCACAGGGTCCCGTGGCAGAGGTGGAATTGGCCGA  
 GGACGCACCTGTGGGATCGCTGCTGCTCGACCTGGACGCTGCCGATCCCAGCAAGGTCCCAACGGCGAC  
 GTTGTGTTACCTTCGGCGCCCGCACCCCTCCCAGGACCGCCACCTTTCGGCTCGACCCGCGCTCTG  
 GCCGCCTCACCTTGGCTGGGAGGTGGACTACGAGCGCCAGGACACCTACGAGCTGGACGTGCGGGCTCA  
 AGACCGAGGTCCAGGGCCCCGGACGCCACCTGCAAGTTATCGTGCGCATCCGAGACGTCAACGACAAC  
 GCTCCTGAAATTTCTATCACTCCTTGGCCGCCCGGGGCTCCAGCCACCTCGCCCTCGCCGCGCGCC  
 CCGCTCGCTGGTCCAGAGGGGGCGCGCGAGAGTCTAGTGGCGCTGGTGCAGCACCTCGGACAGGGAC  
 TCGGGCGCAACGGGACAGGTGCGCTGCGCCCTTACGGGACGAGCACTTtaggctgcagccggcctatg  
 CTGGCAGTACCTGGTGGTgaccgctgcattcttgaccgggagcgcacgaggatgacacactgacgct  
 ggtggccgaagaccgtggcacacccctcttcgacaccgtcaggccctacaccgtgagcagtgaggagcag  
 AACGACAACGCACCGATCTTACCAAGCCAGTCTATGAGGTGTCGGTCCGCGAAAACAACCTCCAGGGC  
 CCTACCTGGCCACAGTGGCAGCCCGGACCCCTGACGTGGGTGCAACGGTCAAGTCACTACCGCCTGGT  
 AGAGGCCGAAGTGGCCGCTCTGGGAAGCCGTGTCACCTACGCTCAGTAGACCCGGCTACCGGAGCC  
 ATCTACGCTCTCCGTAGTTTTGACTATGAGACTCTGCGCCAGCTTGACGTGCGTGTCCAGCCAGCGACG  
 GCGGTTCCCTCAGCTTCCAGCAATGCTCTGGTGAAGTGGGGTGTGGACCAGAATGATCATTCTCC  
 GATCCTTGTGCATCCGGCGCCGGCTAATGGCTCCCTAGAAGTAGCGGTCCCTGGACGTTCCACCAAGGAC  
 ACAGCTGTGGCGCGCATCCAGGCCCGGGATGCTGACGAAGGAGCCAACGGGGAAGTGGCCTTTGATCTGC  
 TGCAGCAGGAGCCACGCGAGGCCCTTCCATAGGCCGCCACAGGGGGAGATCATGCTTACTGGAGACCT  
 CTCGCAGGAGCCTCCTGGCCGCTGTTCAAGGCCCTGCTGGTCATATCCGACGGCGGCCCTCCCTCTC  
 ACCACCACTGCAACCGTCAGTTTCGTGGTAACAGCCGGGGCGGGTCAGCTGTGCTGCCAGCTCCGGGA  
 GCCCAGAGCACTCCGGCCACCCGGCTCTCGCTCGCGCCGTGGGGCCTTCGCTGCAGTGGGACACGCC  
 GCTGATCGTCATCATCGTGTAGCCGGGAGCTGCACGCTGCTGCTGCAGCCATCATGCCATCGCCACC  
 ACCTGCAACCGCCGAAGAAGGAGCCTTACGGTGCCTCTCCAGGCTTCGGGAAGGAGCCTGCTGCGCCCC  
 CTGTTGCAGTCTGGAAGGTCATTCAATCAACACCATCTCGGGCCGAGAAGCTGAGAAGTTCAGTGGGAA  
 AGACAGCGGCAAAGGAGACAGTATTTCAATGACAGTGAAGTGGACATCAGCGGGGACGCTTTGAAAAAA  
 GACCTCATCAACCACATGCAGAGTGGACTGTGGGCGTGTACTGCTGAGTGAAGATCCTAGGTCATTCTG  
 ATCGCTGTGGAGCCATCCTGTGCCGGACCAACGTACACCCCTCCTCACCCACAGCCAGATGTC  
 AACCTTCTGTAAGAGCACGTCCCTGCCTCGGGATCCTCTGCGCAGGGACAATTACTATCAGGCCAGCTC  
 CCCAAGACAGTAGGGTTGCAGAGCGTCTATGAGAAAGTACTGCATAGAGACTATGACAGGACAGTCACTT  
 TACTCTCCCTCCCGTCCAGGAAGGCTCCAGACCTGCAGGAGATTGGAGTACCCCTCTATGAATCCCC  
 TCCTGGTAGCAGATACGTGTCCCGAAGAAGGGAATCAATGAAAATGTG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001042726
<b>Insert Size:</b>	2922 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_001042726.3</a></u> , <u><a href="#">NP_001036191.1</a></u>
<b>RefSeq Size:</b>	3712 bp
<b>RefSeq ORF:</b>	2922 bp
<b>Locus ID:</b>	18530
<b>UniProt ID:</b>	<u><a href="#">Q7TSK3</a></u>
<b>Cytogenetics:</b>	14 42.76 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region, compared to variant 1. This results in a protein (isoform 2) with a shorter cytoplasmic domain, compared to isoform 1.</p>