

## Product datasheet for **SC315016**

### PCDH8 (NM\_032949) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH8 (NM_032949) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDH8
Synonyms:	ARCADLIN; PAPC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



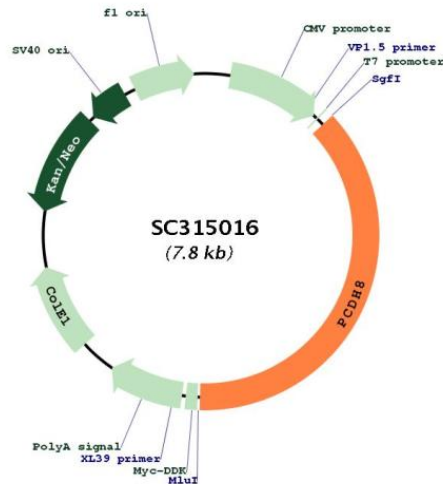
[View online »](#)

Fully Sequenced ORF: >SC315016 representing NM\_032949.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
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Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_032949

**Insert Size:** 2922 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_032949.2](#)

**RefSeq Size:** 3786 bp

**RefSeq ORF:** 2922 bp

**Locus ID:** 5100

**UniProt ID:** [O95206](#)

**Cytogenetics:** 13q14.3

**Domains:** CA

**Protein Families:** Transmembrane

**MW:** 103.6 kDa

**Gene Summary:** This gene belongs to the protocadherin gene family, a subfamily of the cadherin superfamily. The gene encodes an integral membrane protein that is thought to function in cell adhesion in a CNS-specific manner. Unlike classical cadherins, which are generally encoded by 15-17 exons, this gene includes only 3 exons. Notable is the large first exon encoding the extracellular region, including 6 cadherin domains and a transmembrane region. Alternative splicing yields isoforms with unique cytoplasmic tails. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (2) uses an alternative splice site on exon 1, truncating the portion encoding the cytoplasmic domain. As a result, isoform 2 has a shorter cytoplasmic tail, while still sharing a C terminus with isoform 1.