

Product datasheet for **SC304822**

PCDH19 (NM_020766) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH19 (NM_020766) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDH19
Synonyms:	DEE9; EFMR; EIEE9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_020766 edited
 ATGCCTGTCTTACCATATGTCTCCATCAATCCCACTCAGGCGACATCTACGCGCTGCGA
 TCCTTTAACACGAGCAGACCAAGGCGTTTCAATTCAAGGTGCTGGCCAAGGACGCGGC
 CTTCCCTCACTGCAAAGCAACGCTACGGTGCGGGTCATCATCCTCGACGTCAACGACAAC
 ACCCCGGTCATCACAGCCCCACCTCTGATTAAACGGCACTGCCGAGGTCTACATACCCCGC
 AACTCTGGCATAGGCTACCTGGTGACTGTTGTCAAGGCAGAAGACTACGATGAGGGCGAA
 AATGGCCGAGTCACCTACGACATGACCGAGGGCGACCGCGGCTTCTTTGAAATAGACCAG
 GTCAATGGCGAAGTCAGAACCACCGCACCTTCGGGGAGAGCTCCAAGTCCTCTATGAG
 CTTATCGTGGTGCTCACGACCACGGCAAGACATCTCTCTGCTCTGCTCTCGTCCTA
 ATCTACTTGTCCCTGCTCTCGATGCCCAAGAGTCAATGGGCTCTGTGAACCTTGCTTG
 ATTTTCATTATTGCCCTGGGCTCCATTGCGGGCATCCTCTTTGAACTATGATCTTCGTG
 GCAATCAAGTGAAGCGAGACAACAAAGAGATCCGGACCTACAACGCAGAATTGCTGAG
 TACTCCTATGGGCATCAAAAGAAATCAAGCAAGAAGAAAAAATCAGTAAGAATGACATC
 CGCCTGGTACCCCGGGATGTGGAGGAGACAGACAAGATGAACGTTGTGAGTTGCTCTTCC
 CTGACCTCCTCCCTCAACTATTTTGACTACCACAGCAGACGCTGCCCCGGGCTGCCGC
 CGCTCTGAGAGCACTTTCCTGAATGTGGAGAACCAGAATACCCGCAACACCAGTGCTAAC
 CACATCTACCATCACTCTTCAACAGCCAGGGGCCCCAGCAGCCTGACCTGATTATCAAC
 GGTGTGCTCTGCTGAGACTGAAACTATTCTTTGACTCCAACCTACGTGAATAGCCGA
 GCCCATTAAATCAAGAGCAGCTCCACCTTCAAGGACTTAGAGGGCAACAGCCTGAAGGAT
 AGTGGACATGAGGAGAGTGACCAAACTGACAGTGAGCATGATGTCAGCGGAGCCTGTAT
 TGTGATACTGCTGTAACGATGTGCTGAACACCAGTGACCTCCATGGGATCTCAGATG
 CCTGATCATGATCAGAATGAAGGATTTTATTGCCGGGAAGAATGCCGGATTCTTGCCAC
 TCTGACAGGTGCTGGATGCCCGGAACCCCATGCCATCCGTTCCAAGTCCCCTGAGCAT
 GTGAGGAACATCATCGCGCTGTCTATTGAAGCTACTGCTGCTGATGTGAGGCTTATGAC
 GACTGCGGCCCCACAAACGGACTTTTCGCAACCTTTGGGAAAGATGTGAGCGACACCCG
 GCTGAGGAGAGGCTACCTGAAAGGCAAGAGGACTGTGATGTGACCATCTGCAGCCCC
 AAGGTCAACAGCGTTATCCGGGAGGCAAGGCAATGGCTGTGAGGCGATTAGCCCTGTACC
 TCCCCCTCCACCTCAAGAGCTCTCTGCCACCAAGCCTTCCGTGTCTTACACCATTTGCC
 CTGGCTCCCCAGCCCGTGATCTGGAGCAGTATGTCAACAATGTCAACAATGGCCCTACT
 CGTCCCTCTGAAGCTGAGCCCCGTGGAGCTGATAGCGAGAAAGTCATGCATGAGGTGAGC
 CCCATTCTGAAGGAAGGTGCAACAAAGAGTCCCCTGGTGTGAAGCGTCTGAAGGATATC
 GTTCTCTAAACAGTCTCCAGGAAGAAGAGAAAGAAACCACTGGCTAGTGAAGAAGCA
 GGAGCTTC

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_020766 unedited
 NAAGGTCAAAATTGTATACGACTCATATAGGGCGGCCGGAATCAACACTGGTACCGATA
 TCAAGCTTATGCCTGTCTTACCTATGTCTCCATCAATCCCACTCAGGCGACATCTACG
 CGCTGCGATCCTTTAACCACGAGCAGACCAAGGCGTTTCAATTCAAGGTGCTGGCCAAGG
 ACGGCGGCTTCCCTCACTGCAAAGCAACGCTACGGTGCGGGTCATCATCCTCGACGTCA
 ACGACAACACCCCGGTATCACAGCCCCACCTCTGATTAAACGGCACTGCCGAGGTCTACA
 TACCCCGCAACTCTGGCATAGGCTACCTGGTGACTGTTGTCAAGGCAGAAGACTACGATG
 AGGGCGAAAAATGGCCGAGTCACCTACGACATGACCGAGGGCGACCGCGGCTTCTTTGAAA
 TAGACCAGGTCAATGGCGAAGTCAGAACCACCCGACCTTCGGGGAGAGCTCCAAGTCTCT
 CCTATGAGCTTATCGTGGTGGCTCACGACCACGGCAAGACATCTCTCTGCTCTGCTC
 TCGTCTAATCTACTTGTCCCCTGCTCTCGATGCCCAAGAGTCAATGGGCTCTGTGAAC
 TGTCTTGAATTTTCAATTATTGCCCTGNGCTCCATTGCGGGCATCCTCTTTGAACTATGA
 TCTTCGTGGCAATCAAGTGCAAGCGAGACAACAAAGAGATCCGGACCTACAACCTGCAGAA
 TTGCTGAGTACTCCTATGGGCATCANAAGAAATCAAGCAAGAAGAAAAAATCAGTAAGAA
 TGACATCCGCTGGTACCCCGGGATGTGGAGGAGACAGACAGATGAACGTTGTGAGTTGC
 TCTTCCCTGACCTCCTCACTATTTTGACTACCAACAGCAGACGCTGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_020766 unedited

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NGGGCCTTGGGGATGGTCACTTGCCAGGNCCAGAGAGAGCACTGGGNNAGGGTCACAGGG
ATGCCACCCGGGCTCTGTTCAAGAAACAGCTATGACCGCGGCCGAATCTAGATGCATGC
TCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTGAGGTCGAGGAAGCTC
CTGCTTCTTCACTAGCCAGTGTGGTTTCTTTCTCTTCTTCTGAGACTGGTTTAGAGAA
CGATATCCTTCAGACGCTTCACACCAGGGGACTCTTTGTTGCGACCTTCCTTCAGAATGG
GGCTGACCTCATGCATGACTTTCTCGCTATCAGCTCCACGGGGCTCAGCTTCAGAGGGAC
GAGTAGGGCCATTGTTGACATTGTTGACATACTGCTCCAGATCACGGGCTGGGGGAGCCA
GGGCAATGGTGTAAGACACGGAAGGCTTGGTGGGCAGAGAGCTCTTGAGGTGGAGGGGG
AGGTGACAGGGCTAATCGCCTCAGAGCCATTGCCTGCCTCCCGGATAACGCTGTTGACCT
TGGGGCTGCAGATGGTCACATCGACAGTCTCTTGCCTTTCAGGGTAGGCCTCTCCTCAG
CCGGGTGGTTCGTGACATCTTCCCAAAGGTTGCGAAAGTCCGTTTGGTGGGGCCGAGT
CGTCATAAGCCTCGACATCAGCAGCAGTAGCTTCAATAGACAGCGCGATGATGTTCTTCA
CATGCTCAGGGGACTTGGAAACGGATGGGCATGGGGTTCGGGGACCATCCAGACCTGTCA
AGTGCCCAAGAAATCCGGCATTCTTCCGGGCATGAATCTTCACTTCATCATGATCAG
GCATCTGAGATGCCATGGNAGTCACACTGGTGTTACGACATCGTTGAC
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Restriction Sites:

Please inquire

ACCN:

NM 020766

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:

The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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 020766.1, NP 065817.1

RefSeq Size:

6507 bp

RefSeq ORF:

1806 bp

Locus ID:

57526

UniProt ID:

Q8TAB3

Cytogenetics:

Xq22.1

Protein Families:

Transmembrane

Gene Summary:

The protein encoded by this gene is a member of the delta-2 protocadherin subclass of the cadherin superfamily. The encoded protein is thought to be a calcium-dependent cell-adhesion protein that is primarily expressed in the brain. Mutations in this gene on human chromosome X are associated with sporadic infantile epileptic encephalopathy and to a female-restricted form of epilepsy (EFMR; also known as PCDH19RE). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2017]

Transcript Variant: This variant (2) lacks an alternate in-frame exon and uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 3. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform c. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by orthologous data.