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# Product datasheet for RC226328

## PCDH19 (NM_001105243) Human Tagged ORF Clone

## Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | PCDH19 (NM_001105243) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | PCDH19 |
| **Synonyms:** | DEE9; EFMR; EIEE9 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

```
>RC226328 representing NM_001105243
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTCGCTCCTGCTGCCGGTGCTGCTGCTGCTGGCCATACTGTGGACGCAGGCTGCCGCCCTCATTA
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AGAGGCGGGCTTCGCGCTGGACCCCCGGCAGGCTTCAGCCTTTCGCGTGGTGTCCAACTCGGCTCCACAC
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GTCAACGACCGCACGCGCGAGCTCTTTCAGATCGACCCGCACAGTGGCCTGGTCACTGTCACTGGCGCTT
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GTCAACAGTGAGCTTGTGGAGGTCAGCGAGAGCGCCCCCCCGGGCTACGTGATCGCCTTGGTGCGGGTGT
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GGAATATGAGAGCTTCTCCACTATTCTGGTGGACGGACGGCTGGACCGCGAGCAGCACGACCAATACAAC
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CAGATCGTGCCGTCGCAGGTGCGGGACATGCCTGTCTTCACCTATGTCTCCATCAATCCCAACTCAGGCG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC226328 representing NM_001105243
Red=Cloning site Green=Tags(s)

MESLLLPVLLLLAILWTQAAALINLKYSVEEEQRAGTVIANVAKDAREAGFALDPRQASAFRVVSNSAPH
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AASPGTRIPLDSAYDPDSGSFGVQTYELTPNELFGLEIKTRGDGSRFAELVVEKSLDRETQSHYSFRITA
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VNDRTRELFQIDPHSGLVTVTGALDYEEGHVYELDVQAKDLGPNSIPAHCKVTVSVLDTNDNPPVINLLS
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PVITAPPLINGTAEVYIPRNSGIGYLVTVVKAEDYDEGENGRVTYDMTEGDRGFFEIDQVNGEVRTTRTF
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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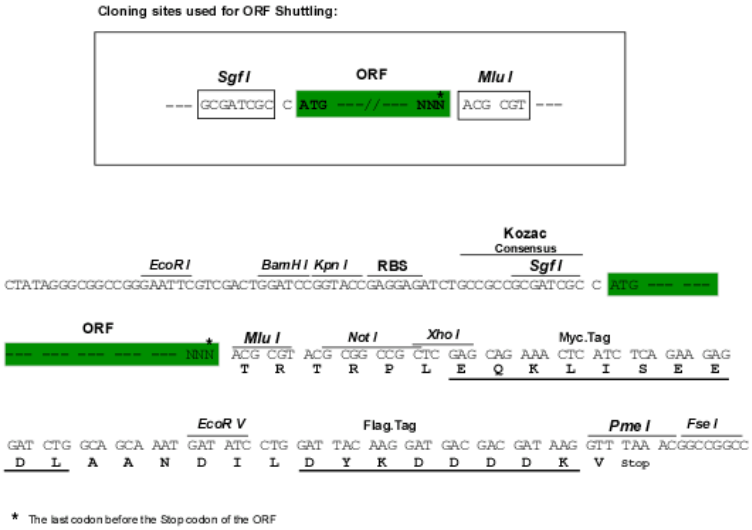
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_001105243

**ORF Size:** 3303 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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_001105243.2

**RefSeq ORF:** 3306 bp

**Locus ID:** 57526

**UniProt ID:** Q8TAB3

**Cytogenetics:** Xq22.1

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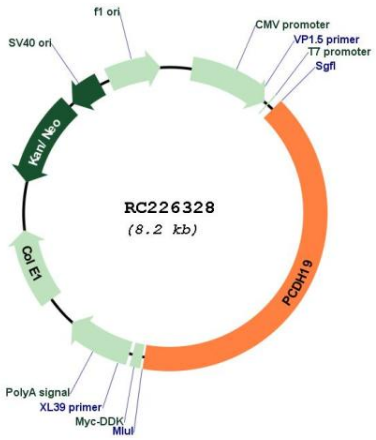
**Protein Families:** Transmembrane

**MW:** 120.9 kDa

**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]

## Product images:




Circular map for RC226328

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