

## 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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC226328 representing NM_001105243 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGTCGCTCCTGCTGCCGGTCTGCTGCTGCTGGCCATACTGTGGACGCAGGCTGCCGCCCTCATT  
ATCTCAAGTACTCGGTAGAAGAGGAGCAGCGCCGGGACGGTGATTGCCAACGTGGCCAAAGACGCGCG  
AGAGGCGGGCTTCGCGCTGGACCCCGGCAGGCTTCAGCCTTTCGCGTGGTGTCCAACCTCGGCTCCACAC  
CTAGTGGACATCAATCCCAGCTCTGGCCTGCTGGTCACCAAGCAGAAGATTGACCGTGATCTGCTGTGCC  
GCCAGAGCCCAAGTGCATCATCTCGCTCGAGGTCATGTCCAGCTCAATGGAAATCTGCGTGATAAAGGT  
GGAGATCAAGGACCTGAACGACAATGCGCCAGTTTCCGGCAGCACAGATCGAGCTGGAGATCTCGGAG  
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AGACTTACGAGCTCAGCCCAACGAGCTGTTCCGGCTGGAGATCAAGACGCGCGGCGACGGCTCCCGCTT  
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CTAGACGGTGGCAGCCCGCGCCTGGCACCCGTTGGCCTTAGTATCAAGGTGACCGACTCCAATGACA  
ACAACCCGGTGTAGCGAGTCCACCTACGCGGTGAGCGTGCCAGAAAACCTCGCCTCCCAACACACCCGCT  
CATCCGCCTCAACGCCAGCGATCCAGACGAGGGCACCAACGGCCAGGTGGTCTACTCCTTCTATGGCTAC  
GTCAACGACCGCACGCGGAGCTCTTTCAGATCGACCCGACAGTGGCCTGGTCACTGTCACTGGCGCTT  
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GGCACACTGCAAGGTCACCGTCAGCGTGTGGACACCAATGACAATCCGCGGTGATCAACCTGTGTCA  
GTCAACAGTGAGCTTGTGGAGGTCAGCGAGAGCGCCCCCGGGTACGTGATCGCCTTGGTGGGGTGT  
CTGATCGGACTCAGGCCTCAATGGACGTGTGCAGTGCCGTTTGTGGGCAATGTGCCCTTTCGACTGCA  
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CTCACAATTCAGGCACGCGACGGCGCGTCCCATGCTGCAGAGTGCCAAGTCCCTTACCGTGTCTATCA  
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GCCTGGCGCTATCTGCTCTGTGTCTGCTCGGACCCGACCTGGGTCTCAACGGCAGTGTCTCTAC  
CAGATCGTGCCGTCGAGGTGCGGGACATGCCTGTCTTACCTATGTCTCCATCAATCCCAACTCAGGCG



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ACATCTACGCGCTGCGATCCTTTAACACGAGCAGACCAAGGCGTTCGAATTC AAGGTGCTGGCCAAGGA  
 CCGCGGCCTTCCCTCACTGCAAAGCAACGCTACGGTGCGGGTTCATCATCCTCGACGTCAACGACAACACC  
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 GTCAACAATGTCAACAATGGCCCTACTCGTCCCTCTGAAGCTGAGCCCCGTGGAGCTGATAGCGAGAAAG  
 TCATGCATGAGGTGAGCCCCATTCTGAAGGAAGTTCGCAACAAAGAGTCCCCTGGTGTGAAGCGTCTGAA  
 GGATATCGTTCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC226328 representing NM\_001105243  
 Red=Cloning site Green=Tags(s)

MESLLLPVLLLLAILWTQAAALINLKYSVEEQRAGTVIANVAKDAREAGFALDPRQASAFRVVNSAPH  
 LVDINPSSGLLVTKQKIDRDLRCQSPKCIISLEVMSSSMEICVIKVEIKDLNDNAPSFPAAQIELEISE  
 AASPGTRIPLDAYSDDSGSFGVQTYELTPNELFLEIKTRGDGSRFAELVVEKSLDRETQSHYSFRITA  
 LDGGDPPRLGTVGLSIKVTDSNDNPNVSESTYAVSVPENSPPNTPVIRLNASDPDEGTNGQVVVSYFYGY  
 VNDRTRELFQIDPHSGLVTVTGALDYEEGHVYELDVQAKDLGPNSIPAHCKVTVSVLDTNDNPPVINLLS  
 VNSELVEVSESAPPGYVIALVRVSDRDSGLNGRVQCRLLLGNVFPRLQEYESFSTILVDGRDLREQHDQYN  
 LTIQARDGGVPMQLQSAKSFTVLITDENDNHPHFSKPYQVIVQENNTPGAYLLSVSARDPDLGLNGSVSY  
 QIVPSQVRDMPVFTYVSNPNSGDIYALRSFNHEQTKAFEFKVLAKDGGPLSLQSNATVRVILVDNDNT  
 PVITAPPLINGTAEVYIPRNSGIGYLVTVVKAEDYDEGENGRVYDMTEGDRGFFEIDQVNGEVTRTRTF  
 GESSKSSYELIVVAHDHGKTSLSASALVLIYLSPALDAQESMGSVNLSLIFIIALGSIAGILFVTMIFVA  
 IKCKRDNKEIRTYNCRIAEYSYGHQKSSKSKKIKSKNDIRLVPRDVEETDKMNVVSCSSLTSSLNYFDYH  
 QQTLPGLGRRSESTFLNVENQNTRNTSANHIYHHSFNQGPQPDLIINGVPLPETENYSFDSNYVNSRA  
 HLIKSSSTFKDLEGNLKDSDGHEESDQTDSEHDVQSRSLYCDTAVNDVLTNSVTSMGSMQMPDHDQNEGFHC  
 REECRILGHSDRCWMPRNPMPPIRSKSPEHVRNIIALSIEATAADVEAYDDCGPTKRTFATFGKDVSDHPA  
 EERPTLKGKRTVDVTICSPKVNVSIREAGNGCEAISPVTSPHLKSSLPKPSVSYTIALAPPARDLEQY  
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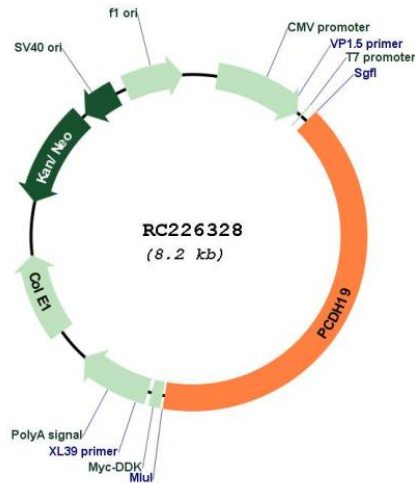
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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.

<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>NM_001105243.2</u>
<b>RefSeq ORF:</b>	3306 bp
<b>Locus ID:</b>	57526
<b>UniProt ID:</b>	<u>Q8TAB3</u>
<b>Cytogenetics:</b>	Xq22.1
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	120.9 kDa
<b>Gene Summary:</b>	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]