

## Product datasheet for **RC224718**

### PCDHA10 (NM\_031860) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHA10 (NM_031860) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHA10
Synonyms:	CNR8; CNRN8; CNRS8; CRNR8; PCDH-ALPHA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC224718 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGGATCGCC

ATGGTTCCAGATGTAGCTGCCTGGGGTCCAGTGTCTGCTCTCGTTCTTCTCCTCGCAGCCTGGG  
AGGTGGGAGCGCCAGCTCCACTACTCAGTCTACGAGGAGGCCAGACACGGCACCTTCGTGGCCGCAT  
CGCGCAGGACCTGGGGCTGGAGCTGGCGGAGCTGGTGCAGCGCCTGTTCCGGGTGGCGTCCAAAAGACAC  
GGGACCTTCTGGAGGTAATCTGCAGAAATGGCATTGTTGTTGTGAATTCTCGGATTGACCGGAGGAGC  
TGTGCGGGCGGAGCGTGGAGTGCAGCATCCACCTGGAGGTGATCGTGGACAGGCCGCTGCAGTTTTCCA  
TGTGGACGTGGAAGTGAAGGACATTAACGACAACCCGCCAGGTTCTCCGTAACAGAACAAAAGCTCTCA  
ATACCTGAATCCAGACTGCTTGACTCTCGATTTCCACTAGAAGGCGCATCTGATGCGGATGTTGGAGAGA  
ACGCATTGCTTACTTACAACTCAGTCCAAATGAGTATTTGTTCTTGATATTATAAACAAAAAGACAA  
AGACAAATCCCAGTGTGTTCTGCGGAAGCTGCTGGATCGTGAAGAAAATCCTCAGCTAAAGTTGTTG  
TTGACAGCAACTGATGGAGGCAAACCTGAATTTACCGGATCTGTTTCTCTGCTGATCCTGGTGTAGATG  
CCAATGATAACGCCCTATCTTTGACAGACCGGTTTATGAAGTTAAGATGTATGAAAATCAAGTGAACCA  
AACATTAGTAATACGGCTCAACGCTTCTGATTCGGATGAAGGAATAACAAGGAAATGATGATTTCATTT  
AGCTCTTTGGTCCCACCCACGATAAGAAGGAAATTTGGATAAACGAAAGGACGGGAGAAATAAAGTAA  
ATGATGCTATTGACTTTGAGGACAGTAACACTTATGAAATTCATGTAGATGTTACAGATAAGGGAAACCC  
ACCTATGGTTGGTCACTGCACGGTCTAGTGAACTACTGGATGAAAATGATAATCACCTGAGGTGATT  
GTCACCTCTGTCTCTCCAGTGAAGAAGATGCTCAAGTGGCACCGTCAATGGCCTAATCAGCGTTT  
CTCCATGATTGAGGACCAACGGACAGGTACCTGCTCTGACGCCACAGTTCGGTTCAAGCTGGT  
GTCCACCTACAAGAATTACTACTCATTGGTGTGGACAGCGCTCTGGACCGGAGAGGGTGTGCGCCTAT  
GAGCTGGTGGTACCAGCGGGACGGGGCTCGCCTCCGCTGTGGCCACGGCCAGCGTGTCTGTGGAGG  
TGGCCGACGTGAACGACAACCGCCTGCGTTCGCGCAGTCCGAGTACACGGTGTTCGTGAAGGAGAACAA  
CCCGCCAGGCTGCCACATCTTACGGTGTCTGCGTGGGACGCGGACGCGCAGGAGAACGCCCTGGTGTCC  
TACTCTCTGGTGGAGCGGCGTTGGGCGAGCGCTCGTGTGAGCTACGTGTGCGTGCACGCGGAGAGCG  
GCAAGGTGTACGCGCTGCAGCCGCTGGACCACGAGGAGCTGGAGCTGCTACAGTTCAGCCACGACAGCC  
CAACCCGACTGGCGTACTCTGCCTCCCTGAGAGCAGGCATGCACAGCTCTGTGCACCTAGAGGAGGCT  
GGCATTCTACGGCTGGTCCAGGAGGCGCTGATCAGCAGTGGCCAACAGTATCCAGTGAACACCAGAAC  
CAGAGGCAGGAGAAGTGTCCCCTCAGTCGGTGCGGGTGTCAACAGCAACAGCTGGACCTTTAAATACGG  
ACCAGGCAACCCAAACAATCCGGTCCCGGTGAGTTGCCCGACAAATTCATTATCCAGGATCTCCTGCA  
ATCATCTCCATCCGGCAGGAGCCTACTAACAGCCAAATTGACAAAAGTGACTTCATAACCTTCGGCAAAA  
AGGAGGAGACCAAGAAAAAGAAAAAGAAAGGTAACAAGACCCAGGAGAAAAAGAGAAAGGGAA  
CAGCAGACTGACAACAGTGACCAG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC224718 protein sequence  
Red=Cloning site Green=Tags(s)

MVSRCSCLGVQCLLLSLLLLAAWEVGSQGLHYSVYEEARHGTFVGRIAQDLGLELAELVQRLFRVASKRH  
 GDLLLEVN LQNGILFVNSRIDREELCGRSVECSIHLEVI VDRPLQVFHVDVEVKDINDNPPRF SVTEQKLS  
 IPESRLLDSRFPLEGASDADVGENALLTYKLS PNEYFLVDIINKKDKDKFPVLVLRKLLDREENPQLKLL  
 LTATDGGKPEFTGVSLLILVLDANDNAPIFDRPVYEVKMYENQVNQTLVIRLNASDSDEGINKEMMYSF  
 SSVLPPTIRRKFWINERTGEIKVND AIDFEDSNTYEIHVDVTDKGNPPMVGHCTVLVELLDENDNSPEVI  
 VTSLSLPVKEDAQVGTVIALISVSDHDSGANGQVTCSLTPHPFKLVSTYKNYSLVLSALDRERSAY  
 ELVVTARDGGSPPLWATASVSVEVADVNDNAPAF AQSEYTVFVKENPPGCHIFTVSAWDADAQENALVS  
 YSLVERRL GERSLSSYVSVHAESGKYYALQPLDHEE LELLQFQRPQPNPDWRYSASLRAGMHSSVHLEEA  
 GILRAGPGPDQQWPTVSSATPEPEAGEVSP PVGAGVNSNSWTFKYGPGNPKQSGPGELPKFIIPGSPA  
 IISIRQEPTNSQIDKSDFITFGKKEETKKKKKKKGNKTQEKKEKGNSTTDNSDQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6606\\_b10.zip](https://cdn.origene.com/chromatograms/mk6606_b10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_031860

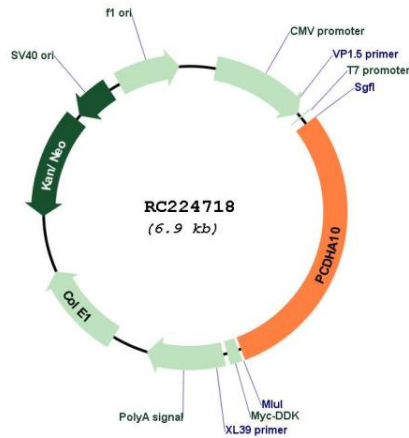
**ORF Size:** 2055 bp

**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](#)

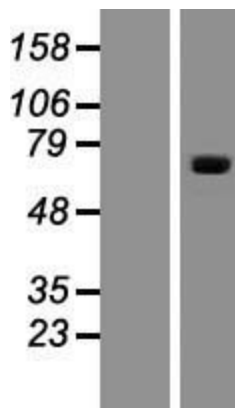
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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>	<a href="#">NM_031860.3</a>
<b>RefSeq Size:</b>	4631 bp
<b>RefSeq ORF:</b>	2058 bp
<b>Locus ID:</b>	56139
<b>UniProt ID:</b>	<a href="#">Q9Y5I2</a>
<b>Cytogenetics:</b>	5q31.3
<b>Protein Families:</b>	Secreted Protein
<b>MW:</b>	75.7 kDa
<b>Gene Summary:</b>	<p>This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha gene cluster is composed of 15 cadherin superfamily genes related to the mouse CNR genes and consists of 13 highly similar and 2 more distantly related coding sequences. The tandem array of 15 N-terminal exons, or variable exons, are followed by downstream C-terminal exons, or constant exons, which are shared by all genes in the cluster. The large, uninterrupted N-terminal exons each encode six cadherin ectodomains while the C-terminal exons encode the cytoplasmic domain. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins that most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been observed and additional variants have been suggested but their full-length nature has yet to be determined. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC224718



Western blot validation of overexpression lysate (Cat# [LY410465]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224718 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).