

Product datasheet for **RG224718**

PCDHA10 (NM_031860) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHA10 (NM_031860) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDHA10
Synonyms:	CNR8; CNRN8; CNRS8; CRNR8; PCDH-ALPHA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG224718 representing NM_031860
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTCCAGATGTAGCTGCCTGGGGTCCAGTGTCTGTCTCGTTCTTCTCCTCGCAGCCTGGG
 AGGTGGGAGCGCCAGCTCCACTACTAGTCTACGAGGAGGCCAGACACGGCACCTTCGTGGGCCGAT
 CGCGCAGGACCTGGGGCTGGAGCTGGCGGAGCTGGTGCAGCGCCTGTTCCGGGTGGCGTCCAAAAGACAC
 GGGGACCTTCTGGAGTAAATCTGCAGAAATGGCATTGTTTGTGAATTCTCGGATTGACCGCGAGGAGC
 TGTGCGGGCGGAGCGTGGAGTGCAGCATCCACCTGGAGGTGATCGTGGACAGGCCGCTGCAGTTTTCCA
 TGTGGACGTGGAAGTGAAGGACATTAACGACAACCCGCCAGTTCTCCGTAACAGAACAAAAGCTCTCA
 ATACCTGAATCCAGACTGCTTACTCTCGATTTCCACTAGAAGGCGCATCTGATGCGGATGTTGGAGAGA
 ACGCATTGCTTACTTACAACTCAGTCCAAATGAGTATTTGTTCTTGATATTATAAACAAAAAAGACAA
 AGACAAATCCCAGTGTGTTCTGCGGAAGTCTGGATCGTGAAGAAAATCCTCAGCTAAAGTTGTTG
 TTGACAGCAACTGATGGAGGCAAACCTGAATTTACCGGATCTGTTTCTCTGCTGATCCTGGTGTAGATG
 CCAATGATAACGCCCTATCTTTGACAGACCGTTTATGAAGTTAAGATGTATGAAAATCAAGTGAACCA
 AACATTAGTAATACGGCTCAACGCTTCTGATTCGGATGAAGGAATAACAAGGAAATGATGATTTCATTT
 AGCTCTTTGGTCCCACCCACGATAAGAAGGAAATTTGGATAAACGAAAGGACGGGAGAAATAAAGTAA
 ATGATGCTATTGACTTTGAGGACAGTAACACTTATGAAATTCATGTAGATGTTACAGATAAGGGAAACCC
 ACCTATGGTTGGTCACTGCACGGTCTAGTGGAAGTACTGGATGAAAATGATAATCACCTGAGGTGATT
 GTCACCTCTGTCTCTCCAGTGAAGAAGATGCTCAAGTGGCACCGTCATTGCCCTAATCAGCGTTT
 CTGACCATGATTCAGGAGCCAACGACAGGTACCTGCTCTGACGCCTCACGTTCCGTTCAAGCTGGT
 GTCCACCTACAAGAATTACTACTATTGGTGTGGACAGCGCTCTGGACCGGAGAGGGTGTCCGCCTAT
 GAGCTGGTGGTACCAGCGGGACGCGGGCTCGCCTCCGCTGTGGGCCACGGCCAGCGTGTCTGTGGAGG
 TGGCCGACGTGAACGACAACGCGCTGCGTTTCGCGCAGTCCGAGTACACGGTGTTCGTGAAGGAGAACAA
 CCCGCCAGGCTGCCACATCTTACGGTGTCTGCGTGGGACGCGGACGCGCAGGAGAACGCCCTGGTGTCC
 TACTCTCTGGTGGAGCGGCGTTGGGCGAGCGCTCGTGTGAGCTACGTGTCCGTCACGCGGAGAGCG
 GCAAGGTGTACGCGCTGCAGCCGCTGGACCACGAGGAGCTGGAGCTGCTACAGTTCAGCCACGACAGCC
 CAACCTGACTGGCGTTACTCTGCCTCCCTGAGAGCAGGCATGCACAGCTCTGTGCACCTAGAGGAGGCT
 GGCATTCTACGGCTGGTCCAGGAGGCGCTGATCAGCAGTGGCCAACAGTATCCAGTGCAACACCAGAAC
 CAGAGGCAGGAGAAGTGTCCCTCCAGTCGGTGCGGGTGTCAACAGCAACAGCTGGACCTTTAAATACGG
 ACCAGGCAACCCAAACAATCCGGTCCCGGTGAGTTGCCCGACAAATTCATTATCCAGGATCTCCTGCA
 ATCATCTCCATCCGGCAGGAGCCTACTAACAGCCAAATGACAAAAGTGACTTCATAACCTTCGGCAAAA
 AGGAGGAGACCAAGAAAAAGAAGAAAAAGAAGGTTACAAGACCCAGGAGAAAAAGAGAAAGGGAA
 CAGCAGACTGACAACAGTGACCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG224718 representing NM_031860
Red=Cloning site Green=Tags(s)

MVSRCSCLGVQCLLLSLLLLAAWEVGSQGLHYSVYEEARHGTFVGRIAQDLGLELAELVQRLFRVASKRH
 GDLLLEVNQLQNGILFVNSRIDREELCGRSVECSIHLEVIIVDRPLQVFHVDVEVKDINDNPPRFVTEQKLS
 IPESRLLDSRFPLEGASDADVGENALLTYKLSPNEYFLDIINKKDKDFPVLVLRKLLDREENPQLKLL
 LTATDGGKPEFTGSVSLILVLDANDNAPIFDRPVYEVKMYENQVNQTLVIRLNASDSDEGINKEMMYSF
 SSLVPPTIRRKFWINERTGEIKVNDIAIDFEDSNTYIEHVDVTDKGNPPMVGHCTVLVELLDENDNSPEVI
 VTSLSLPVKEDAQVGTVIALISVSDHDSGANGQVTCSLTPHVPFKLVSTYKNYSLVLDSDALDRERSAY
 ELVVTARDGGSPPLWATASVSVEVADVNDNAPAFQSEYTVFVKENPPGCHIIFTVSAWDADAQENALVS
 YSLVERRLGERLSYVSVHAESGKYYALQPLDHEEELLQFQRPQPNPDWRYSASLRAGMHSSVHLEEA
 GILRAGPGPDQQWPTVSSATPEPEAGEVSPVVGAGVNSNSWTFKYGPGNPKQSGPGELPKDFIIPGSPA
 IISIRQEPTNSQIDKSDFITFGKKEETKKKKKKKKGNKTQEKKEKGNSTTDNSDQ

TRTRPLE - GFP Tag - V

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.

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_031860.3](#)

RefSeq Size: 4465 bp

RefSeq ORF: 2058 bp

Locus ID: 56139

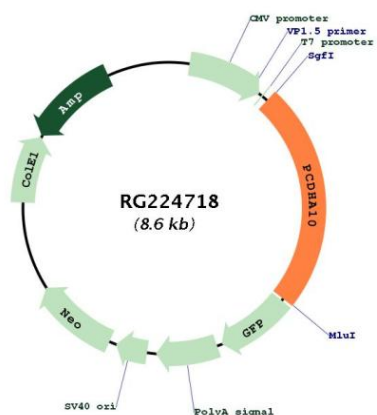
UniProt ID: [Q9Y5I2](#)

Cytogenetics: 5q31.3

Protein Families: Secreted Protein

Gene Summary: 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]

Product images:



Circular map for RG224718