

Product datasheet for **SC113350**

PCDHAC2 (NM_018899) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PCDHAC2 (NM_018899) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PCDHAC2 |
| Synonyms: | PCDH-ALPHA-C2 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_018899, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCAGGCGGGCACCAGACCTGCGGCGACAGAGCATCCACGGCTCCGGCGGCCCATGCCTGGCTGC
TGCTACTGCCTCTCCTGCTGCTGTTGCTGCTGCTACCTGCCCTCGCGCCTCCCAGCTGCGATACTC
TGTGCCAGAGGAGCAGGCACCCGCGCGCTCGTGGGCAACGTGGCTCGCGCGCTGGGCTTGAGCTGCGG
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TGACGAGTGAGCGCTCTTCGTCAACGAGCGCATTGATCGGGAGGCGCTGTGTGAGCAGCGGCTCGCTG
CCTGCTCAGTTGGAAGTGTGGCGCACAAACCCGTGGCGGTGAGCGCCGTTGAGGTGAAAATATTGGAC
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CAGCCCCAGCGAGCACTTCGAGCTGGACCTTAAGCCCTGCAGGAGAACAGTAAAGTGTGAGCTGGT
CTGCGTAAGGGCCTAGACCGGGAGCAGGCAGCCTTGCACCACCTGGTTCTCACAGCCGTGGATGGGGCA
TCCAGCCGCTCGGGTACGGCACAGATCTCTGTGCGTGTCTGGACACTAACGACAACCTCTCTGCCTT
TGACCAGTCCACTTATCGCGTCCAGCTACGGGAGGACTCACCCCAAGGCACATTGGTGGTGAAGTGAAT
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CCGAAAGTGAAGTGGCTGGGCTGGAGGCCACACTGCCTTCCGACTGAATGGCTTGGAACTCCTATACA
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TGACTATGAGAAGTTTCGGGAGTTCTTTGTGACTGTGGAGGCTCAGGACAAGGGGAGCCACCAGTGA
AGCACTGTGACTGCCAACGTATATGTGGTGGACATGAATGACCATGCCCTCACATTCTGTACCCTACCT
CAACCAACTCGTCAGCAGCCTTCGAGATGGTGCCTCGAAGTCCCTGCTGGCTACCTGGTACCAAAGT
CATAGCTATGGACTCAGACTCTGGGCAAAATGCTTGGCTTTTTACCATCTAGCCAGACTTCTGACCTG
GACCTCTTAAGGTAGAGCTGCACACAGGAGAAATTAGGACTACCAGGAAGATGGGAGATGAGAGTGGTA
GCACTTCAACCTGACCGTGGTGGTCCGAGATAATGGAGAGCCATCACTATCAGCCTCTGTGGCCATTAC
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TACTCTGAAATTACCCTTATCTAATAATAGCATTAAAGCACAGTGTCTTTATATTTCTTTTGACAAATCA
TCATTTTGAGCATCATCAAGTGTACCGCTACACTGCGTATGGCACTGCATGCTGTGGAGGCTTCTGTGG
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TGGTCCAGGAGGGCTGATCAGCAGTGGCAACAGTATCCAGTGAACACCAGAACCAGAGGCAGGAGAA
GTGTCCCTCCAGTCGGTGCAGGTGTCAACAGCAACAGCTGGACCTTTAAATACGGACCAGGCAACCCCA
AACAAATCCGGTCCCGGTGAGTTGCCGACAAATTCATTATCCAGGATCTCTGCAATCATCTCCATCCG
GCAGGAGCCTACTAACAGCCAAATGACAAAAGTACTTCATAACCTTCGGCAAAAAGGAGGAGACCAAG
AAAAAGAAGAAAAGAAGGGTAACAAGACCCAGGAGAAAAAGAGAAAGGGAACAGCAGCAGTACA
ACAGTGACCAGTGA
    
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_018899 unedited TATAGGGGCGCCGCAATTCGCACGAGGGCGACTCGGAGGCGAGCGGAGGAGCTGGAAT TGGGGAGTCAGCGAGGACGGTGGGGCCAGGAGCCCTTGGGAGGGCCTACGGAGGGAGCGG CCCCAGGCGCTTTCTAGAGCGTGAGCGGTGGGGGAGCAGGCGCAGGGTGGCACGAGCGGA GGCGGGGCCCCGGGCGTGGGGCACGGCTGGGGAAGCTGCCGCTCCGGCCCTGCCCGGCTG CCTCCGCCCGGGCCAGTGGCTATGGAGCAGGCGGGCACCAGACCTGCGGGCAGACAGCAT CCACGGCTCCGGCGGCCCATGCCCTGGCTGCTGCTACTGCTCTCCTGCTGCTGTTGCTG CTGCTGTACCTGGCCCTGCGGCCCTCCAGCTGCGATACTCTGTGCCAGAGGAGCAGGCA CCCCGGCGCGCTCGTGGGCAACGTGGCTCGCGCGCTGGGGCTTGAGCTGCGGCGCTTGGGG CCGGGTTGCTTGCGCATCAACCATCTGGGTGCGCCAGTCCGCGCTACCTGGAGCTGGAC CTGACGAGTGGAGCGCTTTCGTCAACGAGCGCATTGATCGGGAGGCGCTGTGTGAGCAG CGGCCTCGCTGCCTGCTCAGCTTGAAGTGTGGCGCACAAACCCCGTGGCGGTGAGCGCC GNTTGAGTGGAAATATTGGACATCAACGACAACCTACCGCGTTTTNCCGCGGCCAACTAC CAGCTTACAGTAAGCGAATCGGTGGCGCTGGAGCGCGCTTTCACATAGAGAGTGGCAGA CCCCGACGTGGGGCCAACTCAGTACAGACCTACGAGCTCAGCCCAGCGAGCACTCGAGC TGGACTTTAGCCCTGCAGAGACAGTAAGT</p> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_018899 unedited ACCATTTTCATTTATTAGCATAACAGNGGGAAATACCAATAGCACCAATCAAAGAATCC ACATGACGTGTTTTATCCTTACAGCTGTAATAACTAGTAACTAACATGGATTGGAAAGCA CTTCGCAATGTA AAAAGTGCTGTACAGATACATTATAATTATCATCATTATAAATTAG CCCGATTCTCCTAGTTCAAAGGCACGTAAAGTCAGATACATGGGCTTCAGTGGGGCAA ATGATCACAACTACAATGTAGCAATGGTTCACATGTGTTGGTAACAAGTTTTACCCAT GCAATCCTGCAGAGCTGAAGTTACACACCCTTCAAATATGGGAGAATGAAGCTAAAAGT AGACAAGACAGTTTTTTTTAAATTTAATGCTTTTTTTAAATAACAGACTCCTACCTCTT TTATATTAATGCCTAAATAGATAATATAATTAATCAAACCTCTAAATTGTACATTATAAC AAAATTAATGTCTTATTTAAGGTGACAGCAAATTTTGTACTTTCTATGAGCTGATAT TTCAGATACCATTAGAATTTCAAAGCATTCTGCAACTTCAAAGAGGTCAGATTGGTAAAA TTTGTGCTTGACACCCTCATGGAATATTGTGAGTATTCTTCAAATTTGTTACTAGAA CAAAACAGCTTTATCCATTCCCTTGGCAGCAGAAGTCTTGGCAGGAGATGGCTCTTGGC GGACCATAAATAAAATTCCTTGAATCACCAGTATCTTGATTAAAGAAAGAAATTTACTGT GTCTTTTACACAAAGCTGATTAACATGGTTAAAAAACAATACTNCACTTTTACAGGT GTCANAAGGAATATATGGGATACATTAACATAAGCTTAAGTCACTCTAGTATAGTGCATT ACATTACATCCAGCCAGGTAGTTTTTCAGATCTTACTAGCTACTACTAGGAGATGATT CAGTAA</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_018899 |
| Insert Size: | 4730 bp |
| 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). |
| 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_018899.4](#), [NP_061722.1](#)

RefSeq Size: 6036 bp

RefSeq ORF: 6036 bp

Locus ID: 56134

UniProt ID: [Q9Y5I4](#)

Cytogenetics: 5q31.3

Domains: CA

Protein Families: Transmembrane

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]

Transcript Variant: This variant (1) includes the constant region exons and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.