

Product datasheet for **SC315079**

PCDH11X (NM_014522) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PCDH11X (NM_014522) Human Untagged Clone
Tag: Tag Free
Symbol: PCDH11X
Synonyms: PCDH-X; PCDH11; PCDHX
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_014522, the custom clone sequence may differ by one or more nucleotides

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ATGGACTTGTGTCCGGGACGTACATTTTCGCGGTCTGCTAGCATGCGTGGTGTCCAC
TCTGGCGCCAGGAGAAAACTACACCATCCGAGAAGAAATGCCAGAAAACGTCCTGATA
GGCGACTTGTGAAAGACCTTAACCTTGTGCGCTGATTCCAAACAAGTCTTGACAAGTCT
ATGCAGTTCAGCTAGTGTACAAGACCGGAGATGTGCCACTGATTGCAATTGAAGAGGAT
ACTGGTGAGATCTTCACTACTGGCGCTCGCATTGATCGTGAGAAATATGTGCTGGTATC
CCAAGGGATGAGCATTGCTTTTATGAAGTGAGGTTGCCATTTTGCCGGATGAAATATTT
AGACTGGTTAAGATACGTTTTCTGATAGAAGATATAAATGATAATGCACCATTGTTCCCA
GCAACAGTTATCAACATATCAATTCAGAGAAGCTCGGCTATAAACTCTAAATATACTCTC
CCAGCGGCTGTTGATCCTGACGTAGGAATAAACCGGAGTTCAAACTACGAACTAATTAAG
AGTCAAAACATTTTTGGCCTCGATGTCATTGAAACACCAGAAGGAGACAAGATGCCACAA
CTGATTGTTCAAAAGGAGTTAGATAGGGAAGAGAAGGATACCTACGTGATGAAAGTAAAG
GTTGAAGATGGTGGCTTTCTCAAAGATCCAGTACTGCTATTTTGCAAGTGAGTGTACT
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AATGCTCCTGTAGGCACCTCAGTGACACAGCTCCATGCCACAGATGCTGACATAGGTGAA
AATGCCAAGATCCACTTCTTTTCAGCAATCTAGTCTCCAACATTGCCAGGAGATTATTT
CACCTCAATGCCACCACTGGACTTATCACAATCAAAGAACCACTGGATAGGGAAGAAACA
CCAAACCAACAAGTTACTGGTTTTGGCAAGTGATGGTGGATTGATGCCAGCAAGAGCAATG
GTGCTGGTAAATGTTACAGATGTCAATGATAATGTCCCATCCATTGACATAAGATACATC
GTCAATCCTGTCAATGACACAGTTGTTCTTTTCAGAAAATATTCCACTCAACACCAAAAT
GCTCTCATAACTGTGACGGATAAGGATGCGGACCATAATGGCAGGGTGACATGCTTCACA
GATCATGAAATCCCTTTTCAGATTAAGGCCAGTATTCAGTAATCAGTTCCTCCTGGAGACT
GCAGCATATCTTGACTATGAGTCCACAAAAGAATATGCCATTAATTAAGTGGCTGCAGAT
GCTGGCAAACCTCCTTTGAATCAGTCAGCAATGCTCTTCATCAAAGTAAAGATGAAAT
GACAATGTCCAGTTTTACCCAGTCTTTTCGTAAGTGTCTATTCTGAGAATAACTCT
CCTGGCATCCAGTTGACGAAAGTAAAGTGAATGGATGCAGACAGTGGGCTAATGCTAAG
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ATGCTGACTGTAGTGAAGAACTAGATAGAGAAAAAGAGGATAAATATTTATTCACAATT
CTGGCAAAAGATAACGGGGTACCACCTTAACCAGCAATGTCACAGTCTTTGTAAGCATT
ATTGATCAGAATGACAATAGCCAGTTTTCACTCACAATGAATACAACCTCTATGTCCCA
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GAAAACCTTCCAAGGCATGGTACAGTAGGACTAATCACTGTAAGTATCCTGATTATGGA
GACAAATTCGCAGTTACGCTCTCCATTTTAGATGAGAATGATGACTTCACCATTGATTCA
CAAAGTGGTGCATCCGACCAAATATTTTCATTTGATAGAGAAAAACAAGAATCTTACACT
TTCTATGTAAAGGCTGAGGATGGTGGTAGAGTATCACGTTCTTCAAGTGCCAAAGTAACC
ATAAATGTGGTTGATGTCAATGACAACAAACCAGTTTTTCATTGTCCTCCTTCCAAGTGT
TCTTATGAATTGGTTCTACCGTCCACTAATCCAGGCACAGTGGTCTTTCAGGTAATTGCT
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AGAGACTGTTTTGCAATCGACCAAGAAACAGGCAACATAACATTGATGGAGAAATGTGAT
GTTACAGACCTTGGTTTACACAGAGTGGTGGTCAAAGCTAATGACTTAGGACAGCCTGAT
TCTCTCTTCAGTGTGTAATTGTCAATCTGTTTCGTGAATGAGTCGGTGACCAATGCTACA
CTGATTAATGAACTGGTGCACAAAGCACTGAAGCACCAGTGACCCCAAATACTGAGATA
GCTGATGTATCCTCACCAACTAGTACTATGTCAAGATCCTGGTGCAGCTGTTGCTGGC
ACCATAACTGTCGTTGTAGTTATTTTCATCACTGCTGTAGTAAGATGTCGCCAGGCACCA
CACCTTAAGGCTGCTCAGAAAAACAAGCAGAATTCTGAATGGGCTACCCCAAACCCAGAA
AACAGGCAGATGATAATGATGAAGAAAAAGAAAAAGAAGAAGCATTCCCTAAGAAC
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AACAGAGTCACACTAGACCTTCTATTGATCTAGAAGAGCAAACAATGGGAAAGTACAAT
TGGGTAACACTACCTACTACTTTCAAGCCCGACAGCCCTGATTTGGCCCGACACTACAAA
TCTGCCTCTCCACAGCCTGCCTTCCAAATTCAGCCTGAACTCCCTGAATTCGAAGCAC
CACATCATCCAAGAACTGCCTCTCGATAACACCTTTGTGGCCTGTGACTATCTCCAAG
TGTTCTCAAGCAGTTGAGATCCCTACAGCGTTTCTGACTGTGGCTATCCAGTGACGACC
TTCGAGGTACCTGTGTCGTACACACCAGACCGGTAGGTATCCAAGTTTCTAACACAAC
TTC
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- Restriction Sites:** Please inquire
- ACCN:** NM_014522
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_014522.1](#), [NP_055337.1](#)
- RefSeq Size:** 4603 bp
- RefSeq ORF:** 3066 bp

Locus ID: 27328

Cytogenetics: Xq21.31

Domains: CA

Protein Families: Transmembrane

Gene Summary: This gene belongs to the protocadherin gene family, a subfamily of the cadherin superfamily. The encoded protein consists of an extracellular domain containing 7 cadherin repeats, a transmembrane domain and a cytoplasmic tail that differs from those of the classical cadherins. The gene is located in a major X/Y block of homology and its Y homolog, despite divergence leading to coding region changes, is the most closely related cadherin family member. The protein is thought to play a fundamental role in cell-cell recognition essential for the segmental development and function of the central nervous system. Disruption of this gene may be associated with developmental dyslexia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]

Transcript Variant: This variant (a) represents the shortest transcript and encodes the shortest isoform (a).