

Product datasheet for **SC110552**

PCDHGA11 (NM_032092) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGA11 (NM_032092) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHGA11
Synonyms:	PCDH-GAMMA-A11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC110552 sequence for NM_032092 edited (data generated by NextGen Sequencing)

```

ATGGCGAATCGGCTACAGCGCGGGGACCGCAGTCGGCTGCTGCTGCTGCTGTCATTTTC
CTGGGGACGCTGCGGGGTTCCGGGCCAGGCAGATCCGATATTCGGTGCCAGAAGAGACC
GAAAAGGGCTCCTTCGTGGGCAATATCTCAAGGACCTGGGGCTGGAGCCCCGGGAGCTG
CGAAGCGCGGAGTCCGCATCGTCTCCAGAGGGAAGACACAGCTTTTCGCTGTGAATCCG
CGAAGCGGCAGCTTGATCACGGCAGGCAGGATAGACCGGGAGGAGCTCTGTGAGACGGTG
TCCTCCTGTTTTTAAATATGGAACCTTCTCGTGAAGACACCTTGAAGATTTACGGAGTG
GAGGTGGAATAATAGATATTAATGATAACGCCCCAGCTTCCAGGAGGACGAAGTGGAG
ATAAAAGTCAGTGAGCACGCAATTCCTGGGGCGGATTTGCTCTTCTAATGCTAGGGAT
CCAGATGTGGGCGTGAATCCCTCCAGAGCTACCAGCTCAGCCCTAATAATTACTTTTCC
TTGCAACTGCGGGGCAGAACGGATGGGGCCAAGAATCCAGAGCTAGTACTGGAGGGAAGC
CTGGACCGAGAGAAAGAGGCTGCTCACCTGCTCCTCCTCACAGCTTTAGATGGAGCGAT
CCCATCCGAAAGGGCGCAGTCCCATTCTGTGGTGGTCTCGATGTAATGATCACATC
CCAATGTTTACACAGTCCGTATATCGCGTGAGTGTCCAGAAAACATCAGCTCCGGAAC
CGGGTGCTGATGTTAATGCAACGGATCCAGACGAGGGAATCAACGGGGAAAGTAATGTAT
TCATTTCCGAACATGAAAGCAAGGCTTCTGAAATATTCCAATTGGATTCACAACTGGA
GAAGTTCAAGTACGGGGTCTCTGGATTTTAAAAATATAGATTCTATGAGATGGAAATT
CAAGGCCAAGATGGTGGAGGTCTCTTACCACCACGACGATGTTGATCACTGTTGTGGAT
GTGAATGATAACGCTCCAGAAATAACTATCACCTTCTTCTAATTAATTCAATTCTGGAAAAC
TCTCTCCAGGTACAGTGATTGCTCTTCTAATGTGCAAGATCAAGATTTCTGGAGAAAAT
GGTCAAGTCTCCTGTTTTATTCTAACCACCTGCCTTTTAAATTAGAAAAGACTTATGGA
AATTATTACAAAATTGATAACAAGCAGAGTGTGGACAGGGAGTTGGTCCAGAGCTACAAT
ATAACGTTGACAGCCACAGACCAGGGAAGCCCGCTTTGTCTGCAGAAACTCATGTCTGG
CTGAATGTGGCAGATGACAACGATAACCCTCCCGTTTTTCTCACTCCTTACTCTGCC
TACATTTCCGAAAACAACCCAGGGGTGCCTCCATCTTCTCAGTGACCGCCCTCGACCCG
GACAGCAAACAGAAATGCCCTGGTCACTTACTCTCTGACGGATGACACTGTCCAGGGGGTG
CCTCTGCTCCTATGTCTCTAATACTCCAACACTGGTGTCTCTATGCCCTACAATCC
TTCGACTATGAGCAGTTTCGAGACTTAGAACTGAGAGTGATAGCACGTGACAGCGGGGAC
CCGCCCCCTCAGCAGCAACGTGTCGCTGAGCCTGTTCTGTGCTGGACCAGAACGACAATGCC
CCCGAGATCCTGTACCCTGCCCTCCCCACAGACGGCTCCACTGGCGTGGAGCTGGCGCCC
CGCTCTGCGGAACCTGGCTACCTGGTGACCAAGGTGGTTGCGGTTGGACAAAGATTCAGGC
CAGAACGCTGGCTGCTCTATCGCTGCTTAAGGCCAGCGAGCCGGGACTCTTCGCGGTG
GGGGAGCACACGGGCGAGNNGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCAG
AGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACCAG
TTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGG
AGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAG
TTCACCCTGCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAATGCC
ACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAAC
AAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAA
    
```

Clone variation with respect to NM_032092.1
 1879 c=>n;1880 a=>n;1881 a=>n

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_032092 unedited</p> <pre> NNNAATGTTTCGNAATTTGTNATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGT GGATACTACANATCCTGACACTGGAGACTTAGAAGTATTTTCCTTCGCTTTCTGATATA TTTTGGATGTAGTCGGCCTAGGACTTCATAGATACATAAGCCGATTCACAACCAACCAGC TCGAGAAACCGCGGAATATCGGCTTAGAGCCTGCCATGGCGAATCGGCTACAGCGCGGGG ACCGCAGTCGGCTGCTGCTGCTGCTGTCATTTTCCTGGGGACGCTGCGGGGGTTCCGGG CCAGGCAGATCCGATATTCGGTGCCAGAAGAGACCGAAAAGGGCTCCTTCGTGGGCAATA TCTCCAAGGACCTGGGGCTGGAGCCCCGGGAGCTGGCGAAGCGCGGAGTCCGCATCGTCT CCAGAGGGAAGACACAGCTTTTCGCTGTGAATCCGCGAAGCGGCAGCTTGATCACGGCAG GCAGGATAGACCGGGAGGAGCTCTGTGAGACGGTGTCTCCTGTTTTTAAATATGGAAC TTCTCGTGAAGACACCTTGAAGATTTACGGAGTGGAGGTGAAAATAATAGATATTAATG ATAACGCCCCAGCTTCAGGAGGACGAAGTGGAGATAAAAGTCAGTGAGCACGCAATTC CTGGGGCGCGATTTGCTCTTCTAATGCTAGGGATCCAGATGTGGGCGTGAACCTCCCTCC AGAGCTACCAGCTCAGCCCTAATAATTACTTTTCCTTGCACCTGCGGGGCGAGAACGGATG GGGCCAAGATCCAGAGCTAGTACTGGNAGGGAAGCCTGGACCGAGAGAANAGAGCTGCTC ACCTGCTCCTCCTCCAGCTNTAGATGGGGAGCGATCCATTAGGGGGGGCGAGTCCATCG NGGGGGGGGGGGCCCTCGATGGAATGATCACTC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_032092 unedited</p> <pre> AGTTTTAAGTTTNTTATACCCTTCGTCTCGAGNAAAAAAGCCTCTAAATATTACAGTAT AAAACCTTGCTGTGAGACACAGGAAGAGGGTGGGGTGGGAGCTACGTGACTATGCGAAGAG AAGGGGGGATAGGAGAAGTCAGTACGGGGGAGGGGGTTCGCCTTAGCGCGTGGACACAGCA CAAACACAACACGGGCCGCCGGGCACATCAAGGACAGACTGTTGCGCGGAGCCCGCC GTCCGCTGGCCGCGCGGATTACGTTAAAGCACACCCGACTACACTACTGGCTATTCTAC ACCAGCCGAAAGAGGGAGGGGGGCTACACTACTGTAAGGGCAGGTCTGGGGTTCTCTGG CAGCCCCGGTGGATGGTCGTCGACCCAGGGGCATAACCGCGTGGGCGAAGATAGTCTATG CACCAGGAGGCACTGGCGAACTTAAACCAGCCTTGCCAAATAGGGGGCGCACTGGNACC TGGGCCGTGGCCTTACGGCATACAAATGCTCCTGGCTCGTCTAACGACTGGGGCTTCC GCAGGCATGTGCCCTGTGATCAATTCATGTCTTGGGTTGATGACTTTCGCTCCTTTTC CTCCTGTTTTGTCTACCGTCTTTCGTTCTCTGCTTTTAAAGTGGCGTGGCAGGGCA TCCTCTCTGCGCCGNTTACCTTTTCGCTTATTCGCGAGCCTTTTTCTCCCTCTCCAG ACCTTTTCAGTGACACTTTCGGGCGCTTGTGGCTCCCGTCTCTTAACCCGCATTACGCG TTGACTATGCCTACATTCGCTCGTTTGTCTTCCGACCCCATGATATGCTCCCCACGATC GGCTGTAGCGACCGTTTCCCATACACCCGCTCGCATAGTTGTCCTCACATACCTTGCTC CCCGTTCTGCGTTCAGCGCATCGCTCTNGTCCGTCATACGACTCGATCCACTCCTAA GCTCCTAT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_032092
Insert Size:	4260 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_032092.1](#), [NP_114481.1](#)

RefSeq Size: 4317 bp

RefSeq ORF: 2253 bp

Locus ID: 56105

UniProt ID: [Q9Y5H2](#)

Cytogenetics: 5q31.3

Protein Families: Transmembrane

Gene Summary: This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been described for the gamma cluster genes. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (3) utilizes an alternative splice donor site that truncates exon 1. This shortest isoform (3) lacks the transmembrane region and has five complete and one partial cadherin domain.