OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC110553

PCDHGA10 (NM_018913) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGA10 (NM_018913) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHGA10
Synonyms:	PCDH-GAMMA-A10
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_018913, the custom clone sequence may differ by one or more nucleotides

ATGGCCGCTCAAAGGAATCGCTCAAAGGAATCAAAGGATTGCAGCGGGCTGGTCCTGCTCTGCCTTTTCT
TCGGGATTCCATGGGAGGCTGGAGCCCGGCAGATCTCCTACTCAATTCCTGAGGAATTAGAGAAAGGCTC
TTTCGTGGGCAACATCTCCAAGGACTTGGGTCTGGCGCCCCGGGAGCTGGCGGAGCGCGGAGTCCGCATA
GTCTCCAGAGGTAGGACGCAGCTTTTCTCTCTGAACCCGCGCAGCGGCAGCTTGATCACCGCGGGCAGGA
TAGACCGGGAGGAGCTCTGCGCTCAGAGCGCGCGGTGCGTGGTGAGTTTTAATATCCTTGTGGAAGACAG
GGTGAAACTTTTTGGGATAGAAATAGAAGTAACTGATATCAATGACAATGCTCCAAAATTCCAAGCAGAA
AATCTAGACGTAAAAATTAATGAAAATGTCGCTGCGGGAATGCGTTTTCCTCTCCCGGAAGCTATTGATC
CGGATGTGGGCGTGAACTCCCTGCAGAGCTATCAGCTCAGCCCCAATAAGCACTTCTCCCTAAGAGTTCA
GAGCCGTGCCAATGGCGTCAAGTACCCGGAGCTGGTACTGGAGCACTCCCTAGATCGCGAGGAAGAGGCC
ATTCACCACCTGGTCCTCACCGCCTCCGACGGGGGTGACCCTCTCCGATCTGGCACTGTCCTTGTCAGTG
TGACTGTCTTCGATGCAAATGACAACGCGCCGGTCTTCACCTTGCCAGAATACCGAGTGAGTGTTCCTGA
GAATTTGCCTGTGGGCACTCAGCTGCTGACAGTCACAGCCACCGACAGGGACGAAGGTGCCAATGGAGAA
GTGACATATTCATTCCGAAAATTACCTGACACGCAATTGTTGAAGTTCCAACTAAACAAATATACTGGAG
AAATAAAAATATCAGAAAATCTAGATTATGAAGAAACCGGTTTCTATGAAATAGAAATACAAGCAGAAGA
TGGAGGAGCATATCTTGCAACTGCAAAAGTGTTGATTACAGTAGAAGATGTAAATGACAACAGTCCAGAG
CTGACCATCACGTCTCTATTTAGTCCAGTGACTGAAGATTCACCTCTGGGAACAGTCGTAGCCCTTTTAA
ATGTGCATGATTTAGACTCTGAGCAGAATGGACAGGTAACCTGTTCCATTTTGGCGTATCTACCATTTAA
ATTAGAAAAGTCCATTGACAGTTATTACAGATTGGTGATACACAGAGCCCTTGACAGGGAACAGGTATCC
TCTTACAATATCACAGTGACAGCCACAGATGGGGGAAGTCCTCCTCTATCAACGGAAGCTCACTTTATGC
TACAAGTGGCAGATATCAATGACAACCCACCTACCTTCTCTCAAGTCTCCTACTTTACCTATATCCCAGA
GAACAACGCCAGGGGTGCCTCCATCTTCTCAGTGACAGCGCTGGACCCGGACAGCAAAGAGAATGCCCAG
ATTATTTACTCCCTGGCTGAAGACACCATCCAGGGGGTACCTCTGTCCTCATACATATCCATCAACTCAG
ACACTGGCGTCCTGTATGCACTCAGATCCTTCGACTATGAGCAGTTTCATGAGCTACAGATGCAGGTGAC
AGCCAGCGACAGCGGGGATCCTCCACTCAGCAGCAACGTGTCGTTGAGCCTGTTTGTGCTGGACCAGAAC
GACAATGCGCCCGAGATCCTGTACCCCGCCCTCCCCACAGACGGTTCCACAGGCGTGGAGCTGGCGCCCC
GCTCCGCAGAGCCCGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCCGGCCAGAACGCCTG
GCTGTCCTACCGTCTGCTCAAGGCCAGCGAGCCGGGACTCTTCGCGGTGGGGGAGCACACGGGCGAGGTG
CGCACGGCGCGAGCCCTGCTGGACAGAGACGCGCTCAAGCAAAGCCTCGTAGTGGCCGTCCAGGACCACG
GCCAGCCCCCTCTCTCCGCCACTGTCACGCTCACCGTGGCCGTGGCCGACAGCATCCCCCAAGTCCTGGC
GGACCTCGGCAGCTTCGAGTCTCCAGCTAACTCTGAAACCTCAGACCTCACTCTGTACCTGGTGGTAGCG
GTGGCCGCGGTCTCCTGCGTCTTCCTGGCCTTCGTCATCGTGCTGCTGGCGCACAGGCTGCGGCGCTGGC
ACAAGTCACGCCTGCTGCAGGCTTCAGGAGGCGGCTTGACAGGTGTGTCCGGCTCGCACTTTGTGGGCGT
GGACGGGGTTCGGGCTTTCCTGCAGACCTATTCCCACGAGGTCTCTCTCACCGCGGACTCGCGAAAGAGT
CACCTGATCTTCCCCCAGCCCAATTATGCGGACACGCTCATCAGCCAGGAGAGCTGTGAGAAAAACGATC
CTTTGTCTTTGTTAGATGATTCGAAGTTTCCTATAGAGGATACCCCATTGGTTCCACAAGCCCCGCCCAA
CACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACACCGGC
ACCTGGCCCAACAACCAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTG
CTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCCAGTT
CACCCTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAAC
GCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGG
AGAAGAAGTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018913 unedited
GCATTTTGTAATACGACTCACTATTAGGGCGGCCGCGAATTCGCACGAGGCTGGGCTGCA
GGGAAGCTCACTCCAGAATTTAAAGTGCCCAGGCTACAGAGACACCCTGAAGCCACAGAA
AGACAAAGGAACCGGTTGAAACACACAACGTGTCCAGTGAGGACTTTGCAGAATTCTGTA
ACCAGACTACAATGGCCGCTCAAAGGAATCGCTCAAAGGAATCAAAGGATTGCAGCGGGC
TGGTCCTGCTCTGCCTTTTCTTCGGGATTCCATGGGAGGCTGGAGCCCGGCAGATCTCCT
ACTCAATTCCTGAGGAATTAGAGAAAGGCTCTTTCGTGGGCAACATCTCCAAGGACTTGG
GTCTGGCGCCCCGGGAGCTGGCGGAGCGCGGAGTCCGCATAGTCTCCAGAGGTAGGACGC
AGCTTTTCTCTCTGAACCCGCGCAGCGGCAGCTTGGTCACCGCGGGCAGGATAGACCGGG
AGGAGCTCTGCGCTCANAGCGCGCGGTGCGTGGTGAGTTTTAATATCCTTGTGGAAGACA
GGGTGAAACTTTTTGGGATAGAAATAGAAGTAACTGATATCAATGACAATGCTCCAAAAT
TCCAAGCAGAAAATCTAGACGTAAAAATTAATGAAAATGTCGCTGCGGGAATGCGTTTTC
CTCTCCCGGAAGCTATTGATCCGGATGTGGGCGTGAACTCCCTGCAGAGCTATCAGCTCA
GCCCCATAAGCACTTCTCCCTAAGATTCAGAGCCGTGCCAATGGCGTCAAGTACCCGGAG
CTGGTACTGGAGCACTCCCTAGATCGCGAGGAAGAAGCCATTCACCACCTGGTCCTCACC
GCCTNCGACGNNGGTGACCCTCTCCGATCTGGCACTGTTCTTGTCAGTGTGACTGTTCTC
GATGCAAATGACAACGCGCCGGTCTTCACCTTGCCAGAATACGAATGAGATGTCCTGAGA
TTTGCCTGTGGGCCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018913 unedited
NTTTTACTCTGGACCCGCGGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTCAGA
AGAACGTTTTATTATTTTTTTGTCGAAGAAAAAAAGCCTATAAATATTAGAGTATAAAAC
TTGCGTGAGACACAGGAAGAGGGTGGGGTGGGAGCTACGTGACTATGCGAAGAGAAGCGC
TTATAGGAGAAGTCAGTACGGGGGAGGGGGTCGCCTTAGCGCGTGGACACAGCACAAAAC
ACAACACGGGCCGCCGCGGGCAGATCAAGGACAGACGGCTGCGCGGAGCCCGCCGCCCGC
TGCCCACCCGCCATCACGTAAAAGCACACCGCACTACACTACTGGCTATTCTACACCAGC
CGAAAGAGGGAGGGGGCGCTACACTACTGTAAGGGCAGGTCTGGGGTTCTCTGGCAGCCC
CGCTGGATGGCCGGGGACCCAGGGGCAGAAGGGGGTGGGAGAAGAAGGTCTATGCACAAG
GAGGCACTGGGGAACTTTAACCAGGCTATGGCCACTAGGGGGCGCACTGGGGACCTGGGC
AGTGGCCTTCACGGAAGAGAAACGGCACCTGGCAAGGTGAAGGACTGAGGCTTCAGGAGG
GCAGGGGCCCTGTTGAAGAAGCCCCATCCTGGGCTGAGACCTTCTGTTCATTTGGTCCCT
GCCCTAGCTCCCTGCCTCCCCAACCCAGGGACTAAGAATGGCCTGGCTGGCCCACCCTTC
CTGCTGGGGCTCCGCTGACCCTTCCACCAGTGGCACCTCTGGAGTACCCAGCACCCACAG
AGGCCCCTCTGACCTCTCAGGGNGACCTGGTCCTAAACCTGCTTCGAGCTTCCTTGGACT
GAAATGCAGTTTAATCCATTGGTCCTNNGTAGCTCACCANAGCTGGCTGCCTGGGCTGAG
CCCTATTATGTATGGGGAGGGTCCAGTCTAGT

Restriction Sites: NotI-NotI

ACCN: NM_018913

Insert Size: 4760 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_018913.2, NP_061736.1
RefSeq Size:	4617 bp
RefSeq ORF:	2811 bp
Locus ID:	56106
UniProt ID:	Q9Y5H3
Cytogenetics:	5q31.3
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 (1) includes the constant region exons and encodes the longest isoform (1).