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Product datasheet for SC106447

PCDHGA10 (NM_032090) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGA10 (NM_032090) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHGA10
Synonyms:	PCDH-GAMMA-A10
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for NM_032090, 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
CTTTGTCTTTGTTAGATGATTCGAAGTTTCCTATAGAGGATACCCCATTGGTTCCAGTGAGTTTTATTTT
CATTTTTACTTTTGTTAAAAAAAAAAAGATTGGTTTTTACTTTGAAGTTTGCGGCATGATGGTGGAAAGT
GTAAATGCTAAAACACTGATGAGTAGAATTTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032090 unedited
ATATCACCCGCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG
CAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCCGC
GAATTCGGCACGAGGGGCTGCTGGGCTGCAGGGAAGCTCACTCCAGAATTTAAAGTGCCC
AGGCTACAGAGACACCCTGAAGCCACAGAAAGACAAAGGAACCGGTTGAAACACACAACG
TGTCCAGTGAGGACTTTGCAGAATTCTGTAACCAGACTACAATGGCCGCTCAAAGGAATC
GCTCAAAGGAATCAAAGGATTGCAGCGGGCTGGTCCTGCTCTGCCTTTTCTTCGGGATTC
CATGGGAGGCTGGAGCCCGGCAGATCTCCTACTCAATTCCTGAGGAATTAGAGAAAGGCT
CTTTCGTGGGCAACATCTCCAAGGACTTGGGTCTGGCGCCCCGGGAGCTGGCGGAGCGCG
GAGTCCGCATAGTCTCCAGAGGTAGGACGCAGCTTTTCTCTCTGAACCCGCGCAGCGGCA
GCTTGGTCACCGCGGGCAGGATAGACCGGGAGGAGCTCTGCGCTCANAGCGCGCGGTGCG
TGGTGAGTTTTAATATCCTTGTGGAAGACAGGGTGAAACTTTTTGGGATAGAAATAGAAG
TAACTGATATCAATGACAATGCTCCANAATTCCAAGCAGAAAATCTAGACGTAAAAATTA
ATGAAAATGTCGCTGCGGGAATGGCGTTTCCTCTCCCGGAGCTATTGATCCGGATGTGGG
GCGTGAACTCCTGCAGAGCTATCAGCTCAGCCCCAATAGCACTNCTCCCTAAGAAGTCAG
AGGCGTGCCATGGCGTCAGTACCCGAGCTGGACTGGAGCACTCCTAGACGCGAGGAGAGG
CATTCACACTGGTCCTCACCGCTCGAGGGGGTGCCCTCTCGACTGGACTGTCCTGTC

Restriction Sites: NotI-NotI

ACCN: NM_032090

Insert Size: 4700 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_032090.1, NP_114479.1

RefSeq Size: 2553 bp

RefSeq ORF: 2553 bp

Locus ID: 56106

UniProt ID: Q9Y5H3

Cytogenetics: 5q31.3

Domains: CA

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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 (2) utilizes the large, first exon then continues into the downstream intron 1 sequence before terminating. This one-exon transcript encodes the shorter isoform (2).

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