

Product datasheet for **SC106435**

PCDHGA5 (NM_032054) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGA5 (NM_032054) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHGA5
Synonyms:	CDH-GAMMA-A5; ME3; PCDH-GAMMA-A5
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_032054, the custom clone sequence may differ by one or more nucleotides

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ATGGCGAGTCCACCTAGGGGCTGGGGCTGCGGAGAGCTGCTGCTGCCCTTCATGCTCCTGGGGACGCTGT
GCGAGCCAGGATCCGGGAGATCCGCTACTCGATGCCGGAGGAGCTGGACAAAGGCTCCTTCGTCGGCAA
CATAGCCAAGGACCTTGGGCTGGAGCCCCAGGAGCTGGCGGAGCGCGGAGTCCGCATCGTCTCCAGAGGT
AGGACGCAGCTTTTTGCCCTGAACCCGCGAAGCGGCAGCTTGGTACC CGGGCAGGATAGACCGGGAGG
AGCTCTGCGCTCAGAGCCCACTGTGTGTGGTGAACCTTAAACATCTTGGTTGAGAACAATAAATAAATTTA
TGGAGTAGAAGTAGAAATAATCGATATTAATGATAACTTCCCGCTTTCGGGATGAAGAGTTAAAAGTA
AAAGTTAATGAAAATGCGGCTGCAGGGACCGGTTAGTGCTTCCCTTCGCGCGGGATGCGGATGTGGGTG
TGAAGTCTCTCCGGAGTTACCAGCTCAGCTCCAATCTGCACCTTCTCTGGATGTGGTAAGCGGAACTGA
TGGACAAAAGTATCCGGAGCTGGTGTGGAACAGCCCCTAGACCGGAGAAAGAGACTGTTACGACCTC
CTCCTCACAGCTTATAGATGGCGGAGACCCGGTACTCTCCGGCACCACGCACATCCGTGTTACGGTCTCG
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TTTCGCAATGAAGAAGAAAAAATTTCCGAGACTTCCAACCTGATTCCAACCTGGGGGAAATCTCAACTC
TACAATCACTGGACTATGAAGAATCCAGATTCTACCTCATGGAAGTGGTAGCTCAGGATGGAGGCGCTCT
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TCTCTGACCAGTTCGATCTCTGAAGACTGTCTCCCGAACTGTAATCGCGCTGTTTAGCGTACATGATG
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AGTTGATAATTAATCACTATTAACAATAAGGACCTGGACAGAGAAGAGACTTCAGATTATAATATC
ACTTTAACCGTCATGGACCATGGAACCCCGCCCTCTACAGAAAAGCCACATCCCTTTGAAAGTAGCAG
ACGTTAATGACAACCCACCCAATTTCCCTCAAGCCTCCTACTCCACCTCTGTACAGAAAACAATCCCGAG
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TGGGAACCCTCCACTTAGCAGCAACGTGTCGCTGAGCCTGTTTGTGCTGGACCAGAACGACAATACGCT
GAGATCCTGTACCCCGCCCTCCACAGACGGTCCACGGGCGTGGAGCTGGCGCTCGTCCGACAGAAC
CTGGCTACCTGGTGACCAAGGTGGTAGCGGTGGACAAAGATTAGGCCAGAACGCCTGGCTGTCTACCG
CCTGCTTAAGGCCAGCGAGCCAGGACTTTGCGGTTGGGCTGCACACGGGCGAGGTGCGCACAGCGCGA
GCCTGCTGGACAGAGACGCGCTCAAGCAGAGCCTCGTGGTGGCCGTCGAAGACCATGGCCAGCCCTC
TGTGAGCCACCTTACGGTACCGTTGCGGTGGCCGACAGGATCCCTGACATCCTGGCTGACCTAGGCAG
TATCAAGACCCCATGACCCTGAGGATCTGGACCTCACACTCTATCTTGTGGTGGCAGTGGCTGCAGTC
TCCTGCGTCTTCTGGCCTTCGTCATCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
TGCTTACAGGCTGAAGGCAGCAGGTTGGCGGGTGTGCCCGCTCGCACTTTGTGGGCGTGGATGGGGTTCC
GGCTTCTGACAGCCTATCCACGAGGTTCCCTCACCGGGACTCGAGGAAGAGTCACTGATCTTT
CCCCAGCCAACTACGCAGACAGCTCCTTAGTGAAGAGAGCTGTGAGAAAAGCGAGCCTCTTCTGATGT
CTGATAAGGTAGATGCAAACAAGAAGAACGGCGAGTTCAGGTTAGTTTTCTTTCCGGTAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032054 unedited GAATTCGGCACGAGGCAAGCTCCTACGAAAAGCCAACGCTCCACGCCATTTTCGTCAGG GAATATGTACCCATCGGCTTTAGATAAATAAGGAAACAGCAGGCTGAACCAGAATAAGA GAAAATTGGGCAGAGAGAAGGCAATGGCGAGTCCACCTAGGGGCTGGGGCTGCGGAGAGC TGCTGCTGCCCTTCATGCTCCTGGGGACGCTGTGCGAGCCAGGATCCGGGCAGATCCGCT ACTCGATGCCGGAGGAGCTGGACAAAGGCTCCTTCGTGGCAACATAGCCAAGGACCTTG GGCTGGAGCCCCAGGAGCTGGCGGAGCGCGGAGTCCGCATCGTCTCCAGAGGTAGGACGC AGCTTTTTGCCCCTGAACCCGCGAAGCGGCAGCTTGGTCACCGCGGCAGGATAGACCGGG AGGAGCTCTGCGCTCAGAGCCCCACTTGTGTGTGGTGAACCTNTAACATCTTGTTGAGAA CAAAATGAAAATTTATNGGAGTAGAAGTAGAAATAATCGATATTAATGATAAATTCNCCG CGTTTCCGGGATGAAAAGTTAAAAGTAAAAGTTAATGAAAATGCGGCTGCAGGGACACGG GTTAGTGCTTCCCTTCGCGGATACNGATTTTTNGGGTGTGACTCTTTCCGGAGTTAC CAGCTCAGCTCCAATCTGCACCTTCTTGGGATTGTGGNAAGCNGGAACTGATGGGACA AAGATCNGAGGCTTGTGGGTGTGGGAAACAGCCCCTAGACCGCAAAAAAAAAAACTGTTC ACGACCTTCTCTCAA
Restriction Sites:	NotI-NotI
ACCN:	NM_032054
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:	<ol style="list-style-type: none"> 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_032054.1 , NP_114443.1
RefSeq Size:	2442 bp
RefSeq ORF:	2442 bp
Locus ID:	56110
UniProt ID:	Q9Y5G8
Cytogenetics:	5q31.3
Domains:	CA

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).