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Product datasheet for SC110544

PCDHGB6 (NM_018926) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGB6 (NM_018926) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHGB6
Synonyms:	PCDH-GAMMA-B6
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_018926, the custom clone sequence may differ by one or more nucleotides

ATGGGAGGGAGCTGCGCGCAGAGGCGCCGGGCCGGCCCGCGGCAGGTGCTATTTCCTTTGCTGCTGCCTT
TGTTCTACCCCACCCTGAGTGAGCCGATCCGCTACTCGATTCCGGAGGAGCTGGCCAAGGGCTCGGTGGT
GGGGAACCTCGCTAAGGATCTAGGGCTCAGTGTCCTGGATGTGTCGGCTCGCAAGCTGCGAGTGAGCGCG
GAGAAGCTGCACTTCAGCGTAGACGCGGAGAGCGGGGACTTACTTGTGAAGAACCGAATAGACCGTGAGC
AAATATGCAAAGAGAGAAGAAGATGTGAGTTGCAATTGGAAGCTGTGGTGGAAAATCCTTTAAATATTTT
TCATGTCATTGTGGTGATTGAGGATGTTAATGACCACGCCCCTCAATTTGATAAAAAGGAAATACATTTA
GAAATTTTCGAATCTGCATCCGCTGGTACACGACTATCGCTTGACCCTGCCACGGATCCTGATATAAACA
TAAACTCAATTAAAGATTATAAGATAAACTCTAATCCTTATTTTTCATTAATGGTTAGAGTTAATTCCGA
TGGTGGCAAATACCCAGAGTTATCTCTGGAGAAACTCCTAGACCGGGAAGAACAGAGATCTCATAGCTTG
ATATTGACTGCCTTGGACGGAGGGGACCCACCAAGAAGTGCCACCGCTCACATAGAAATTTCTGTCAAGG
ATACCAATGATAACCCCCCGGTTTTCAGCAGAGACGAATATAGAATTAGTCTTAGTGAAAATCTGCCCCC
TGGGTCCCCTGTGTTGCAAGTGACAGCCACTGACCAGGATGAGGGGGTCAATGCTGAGATAAACTACTAC
TTCCGAAGCACTGCCCAGAGCACAAAACATATGTTCTCATTGGATGAGAAAACAGGTATGATTAAGAATA
ACCAGTCATTTGATTTTGAAGATGTAGAAAGGTACACCATGGAAGTGGAAGCGAAGGACGGAGGTGGTCT
CTCTACCCAGTGTAAAGTAATCATAGAAATCCTTGATGAAAACGACAACAGCCCAGAAATAATCATCACT
TCTCTCTCTGATCAGATTTTGGAGAATTCACCTCCAGGAATGGTTGTTGCCCTCTTCAAAACACGGGATC
TGGATTTCGGAGGAAATGGAGAAGTCAGGTGTAATATAGAAACAGACATTCCATTCAAGATTTATTCTTC
TTCCAATAACTACTACAAACTGGTGACAGATGGAGCCCTGGACCGAGAGCAGACACCAGAATACAATGTC
ACCATCGTAGCCACTGACAGGGGCAAGCCGCCTCTTTCTTCCAGTAGAAGCATCACCTTGTATGTCGCTG
ACATCAACGACAACGCCCCAGTTTTCGACCAGACGTCCTACGTGGTCCACGTGGCCGAGAACAACCCGCC
AGGAGCCTCCATTGCGCAAGTGAGCGCCTCTGACCCGGATTTGGGGCTCAATGGCCACATCTCCTACTCT
ATAGTGGCGAGTGACCTAGAGCCCCTGGCGGTGTCGTCATACGTGTCAGTGAGCGCGCAGAGCGGGGTGG
TGTTCGCGCAGCGCGCCTTTGATCACGAGCAGCTGCGCGCCTTCGCGCTCACGCTGCAGGCCCGCGACCA
CGGCTCGCCCACGCTCAGCGCCAACGTGAGCCTGCGCGTGTTGGTGGGAGACCGCAATGACAACGCACCG
CGGGTGCTGTACCCAGCTCTGGGTCCTGACGGCTCCGCGTTCTTCGATATGGTACCTCGCTCTGCAGAGC
CCGGCTACCTAGTGACTAAGGTGGTAGCGGTGGACGCCGACTCGGGACACAACGCCTGGCTGTCCTACCA
CGTGCTGCAGGCCAGTGAGCCCGGACTCTTCAGCCTGGGGCTGCGCACTGGGGAGGTGCGCACGGCTCGA
GCCTTAGGCGACAGGGACGCAGCCCGCCAGCGCCTGCTGGTCGCTGTGCGTGACGGTGGACAGCCGCCAC
TCTCTGCCACCGCCACGCTTCATCTGGTCTTCGCAGACAACTTGCAAGAGATACTGCCAGACCTCAGCGA
CCGCCCTGTACTCTCTGACCCCCAGGCTGAACTGCAGTTTTACCTGGTGGTGGCCTTGGCCTTAATCTCA
GTGCTCTTCCTCCTCGCCGTGATTCTGGCCATTGCCTTGCGCCTGCGACGCTCTCTCAGCCCTGCTACTT
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TTTGCCTTATTCTTATAATCTGTGCATTGCACATACGGGTACAAAAGAGTTTAATTTCCTAAAATGCAGT
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GGGAGGATTTGACTTCACATCCTGAGACTCTGACTTCGCAAGCCCCGCCCAACACGGACTGGCGTTTCTC
TCAGGCCCAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACCAG
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TGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCCAGTTCACCCTGCAGCACGTGCC
CGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGAT
GGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018926 unedited
CATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCAGCTCCGAAACCCG
GGACTCCTCCTGTCCTGGGCCGAATGCTCTTTTAGCGCGGTAGAGTGCACTTTCTCCAAC
TGGGAAAAGCGGGGACCCAGCGAGAACCCGAGCGAACGATGGGAGGGAGCTGCGCGCAGA
GGCGCCGGGCCGGCCCGCGGCAGGTACTATTTCCTTTGCTGCTGCCTTTGTTCTACCCCA
CGCTGTGTGAGCCGATCCGCTACTCGATTCCGGAGGAGCTGGCCAAGGGCTCGGTGGTGG
GGAACCTCGCTAAGGATCTAGGGCTTAGTGTCCTGGATGTGTCGGCTCGCGAGCTGCGAG
TTAGCGCGGAGAAGCTGCACTTCAGCGTAGACGCGCAGAGCGGGGACTTACTTGTGAAGG
ACCGAATAGACCGTGAGCAAATATGCAAAGAGAGAAGAAGATGTGAGTTGCAATTGGAAG
CTGTGGTGGAAAATCCTTTAAATATTTTTCATGTCATTGTGGTGATTGAGGATGTTAATG
ACCACGCCCCTCAATTCCGGAAAGATGAAATAAACTTAGAAATCAGTGAATCCGTCAGCC
TGGGGATGGGAACAATTCTTGAGTCTGCAGAAGATCCTGATATTAGTATGAATTCGCTGA
GCAAATACCAACTAAGTCCTAACGAGTATTTCTCATTGGTGGAGAAAGACAATCCTGATG
GTGGCAAATATCCAGAATTAGTATTGCAGAAGACTCTGGACCGAGNAACGCAGAGCGCTC
ACCACTTGGTACTGACCGCCTTAGATGGTGGGGACCCTNCCCGAAAGCGTACTGCTCAGA
NAGAATCCTGGNTATAGATGCCATGACAACCCNCCATGTTCAGCCGGACGTGTACAGGGN
TAGCCTTCGGGAAGAGTGCCTNNCAGCACCTCTNCTGAGATGAAGGCACTGACCAGACAG
GGCATN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018926 unedited
TAGCTTGGCCGCGGCCGCAATCTAGGATCGAGNTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTCAAAAAAAACGTTTTATTATTTTTTTGTCGAAAAAAAAAAGCCTATAAATATTAG
AGTATAAAACTTGCGTGAGACACAGGAAAAGGGTGGGGGGGGAGCTACGTGACTATGCGA
AGAGAAGCGCTTATAGGAAAAGTCAGTACGGGGGAGGGGGTCGCCTTAGCGCGGGGACAC
AGCACAAAACACAACACGGGCCGCCGGGGGCAAATCAAGGACAGACGGTTGCGCGGAGCC
CGCCGCCCGTTGCCCACCCGCCTTCACGTAAAAGCACACCGCACTACACTACTGGCTATT
CTACACCAGCCGAAAGAGGGAGGGGGCGCTACACTACTGTAAGGGCAGGTCTGGGGTTCT
CTGGCAGCCCCGCTGGATGGCCGGGGACCCAGGGGCAAAAGGGGGTGGGAGAACAAGGTC
TATGCCCAAGGAGGCACTGGGGAACTTTACCCAGGTTATGGCCACTAGGGGGCGCACTGG
GGACCTGGGCAGGGCCCTTCACGGAAGAAACCCGCCCCTGCCAGGGTGAAGGCCTGAGGC
TTCAGGAGGGCAGGGGCCCTGTTAAAAAACCCCCTCCCTGGGCTGACAACTTCGGTTCAT
TTGGACCCCGGCCTTATTTTCTTGCTTTCCCAACCCAGGGACTAAAAAAGGCCGTGGCTG
GCCCCCCCCTCCTGCGGGGGCTCCCGCGACCCTCCCACCAGGGGTACTCCGTGGGTTCCC
GCGCCCCAAAGGGCCCTGTTGCCCTCTAAGGGCACCCGCGTCTAACCCGCCTTCTACACT
CCCTCGCCTGAATGCACCCACACACCTTGCAGCTGGCTACCCAACTGATAGCTGGGCCGT
GGGCNGGCCCCTTTTTGCCTCGGCAAGGGCATCCCTCCTACTTGCATATCGCG

Restriction Sites: NotI-NotI

ACCN: NM_018926

Insert Size: 4880 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_018926.2, NP_061749.1
RefSeq Size:	4599 bp
RefSeq ORF:	2793 bp
Locus ID:	56100
UniProt ID:	Q9Y5F9
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 (1) includes the constant region exons and encodes the longest isoform (1).