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Product datasheet for SC107935

PCDHGB7 (NM_018927) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGB7 (NM_018927) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHGB7
Synonyms:	ME6; PCDH-GAMMA-B7
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>NCBI ORF sequence for NM_018927, the custom clone sequence may differ by one or more nucleotides

ATGGGAGGGAGCTGCGCGCAGAGGCGCCGGGCCGGCCCGCGGCAGGTACTATTTCCTTTGCTGCTGCCTT
TGTTCTACCCCACGCTGTGTGAGCCGATCCGCTACTCGATTCCGGAGGAGCTGGCCAAGGGCTCGGTGGT
GGGGAACCTCGCTAAGGATCTAGGGCTTAGTGTCCTGGATGTGTCGGCTCGCGAGCTGCGAGTGAGCGCG
GAGAAGCTGCACTTCAGCGTAGACGCGCAGAGCGGGGACTTACTTGTGAAGGACCGAATAGACCGTGAGC
AAATATGCAAAGAGAGAAGAAGATGTGAGTTGCAATTGGAAGCTGTGGTGGAAAATCCTTTAAATATTTT
TCATGTCATTGTGGTGATTGAGGATGTTAATGACCACGCCCCTCAATTCCGGAAAGATGAAATAAACTTA
GAAATCAGTGAATCCGTCAGCCTGGGGATGGGAACAATTCTTGAGTCTGCAGAAGATCCTGATATTAGTA
TGAATTCGCTGAGCAAATACCAACTAAGTCCTAACGAGTATTTCTCATTGGTGGAGAAAGACAATCCTGA
TGGTGGCAAATATCCAGAATTAGTATTGCAGAAGACTCTGGACCGAGAAACGCAGAGCGCTCACCACTTG
GTACTGACCGCCTTAGATGGTGGGGACCCTCCCCGAAGCGGTACTGCTCAGATAAGAATCCTGGTAATAG
ATGCCAATGACAACCCCCCAGTGTTCAGCCAGGACGTGTACAGGGTTAGCCTTCGGGAAGACGTGCCTCC
AGGCACCTCCATCCTGAGAGTGAAGGCCACTGACCAGGACGAGGGCATCAACTCAGAGATCACTTATTCC
TTCTTTGGTGTGGCTGACAAAGCTCAGCACGTGTTCTCTCTGGATTACACTACAGGAAACATTCTAACTC
AGCAGCCTTTGGATTTTGAAGAAGTAGAAAGATATACGATAAACATAGAAGCAAAAGACCGAGGATCTCT
CTCAACACGGTGTAAAGTAATTGTAGAAGTTGTAGACGAAAACGACAACAGCCCAGAAATAATCATCACG
TCACTCTCTGATCAGATTATGGAGGATTCCCCTCCAGGAGTGGTTGTTGCCCTCTTCAAAACACGGGACC
AAGACTCAGGGGAAAATGGGGAAGTCAGGTGTAGCTTAAGTAGAGGTGTTCCATTTAAGATTCATTCTTC
TTCTAATAATTACTACAAGCTAGTAACAGATGAGGCCCTGGATCGGGAGCAGACCCCAGAGTACAACGTC
ACCATCGCAGCCACAGACAGGGGCAAGCCTCCGTTATCCTCCAGCAAAACCATAACCCTGCACATTACTG
ACGTCAATGACAACGCGCCGGTTTTCGGACAGTCAGCCTACCTGGTCCACGTGCCAGAAAACAACCAGCC
GGGTGCCTCCATAGCGCAAGTCAGTGCCTCTGACCCAGACTTCGGGCTCAACGGCCGTGTCTCCTACTCT
CTCATTGCCAGCGACCTGGAGTCACGAACGCTGTCGTCCTACGTGTCCGTGAGCGCGCAGAGCGGGGTGG
TGTTCGCGCAGCGCGCCTTCGACCACGAGCAGCTGCGCACCTTCGAGCTCACGCTGCAGGCCCGCGACCA
GGGCTCGCCCGCGCTCAGCGCCAATGTGAGCCTGCGCGTGTTGGTGGGCGACCGTAACGACAACGCACCG
CGGGTGCTGTACCCTGCGCTGGGTCCCGACGGCTCCGCGCTCTTCGACACAGTGCCGCGGGCCGCGCAGC
CAGGCTACCTGGTGACCAAGGTGGTGGCCGTGGACGCGGACTCGGGGCACAATGCCTGGCTGTCCTACCA
CGTGGTGCAGGCCAGTGAGCCCGGGCTCTTCAGCCTGGGGCTGCGAACAGGCGAGGTGCGCATGGTGCGT
GCTTTGGGTGACAAGGACTCGGTCCGCCAGCGCCTGCTAGTCGCTGTAAGAGATGGAGGACAGCCACCCC
TTTCAGCCACTGCCACGCTGCACCTGGTGTTCGCAGATAGCTTGCAAGAGGTACTGCCGGATTTCAGCGA
CCATCCCACACCCTCTGACTCCCAGGCTGAGATGCAGTTTTACCTGGTGGTGGCCTTGGCCTTGATTTCT
GTGCTCTTTCTCCTCGCGGTGATTCTAGCTATTGCTCTACGCCTGCGACAGTCTTTCAGCCCTACTGCAG
GAGACTGCTTTGAGTCAGTTCTCTGCTCCAAGTCCGGACCTGTGGGTCCCCCCAACTACAGTGAGGGAAC
GTTGCCCTATGCCTATAATTTTTGTGTGCCTGGGGATCAAATGAATCCAGAATTTAATTTTTTCACATCT
GTTGATCATTGTCCAGCCACACAAGATAACCTCAACAAAGATAGCATGCTACTGGCTAGCATTTTAACTC
CCAGCGTTGAAGCAGATAAGAAGATTCTTAAACAGCAAGCCCCGCCCAACACGGACTGGCGTTTCTCTCA
GGCCCAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACCAGTTT
GACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGG
GAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCCAGTTCACCCTGCAGCACGTGCCCGA
CTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGC
AAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018927 unedited
TGTGCGCATTTGTATACGACTCACTATAGGCGGCCGCGATTCGGCACGAGGTCTTTTAGC
GCGGTAGAGTGCACTTTCTCCACTGGAAAACGGGGACCCAGCGAGAACCCGAGCGAACGA
TGGGAGGGAGCTGCGCGCAGAGGCGCCGGGCCGGCCCGCGGCAGGTGCTATTTCCTTTGC
TGCTGCCTTTGTTCTACCCCACCCTGAGTGAGCCGATCCGCTACTCGATTCCGGAGGAGC
TGGCCAAGGGCTCGGTGGTGGGGAACCTCGCTAAGGATCTAGGGCTCAGTGTCCTGGATG
TGTCGGCTCGCAAGCTGCGAGTGAGCGCGGAGAAGCTGCACTTCAGCGTAGACGCGGAGA
GCGGGGACTTACTTGTGAAGAACCGAATAGACCGTGAGCAAATATGCAAAGAGAGAAGAA
GATGTGAGTTGCAATTGGAAGCTGTGGTGGAAAATCCTTTAAATATTTTTCATGTCATTG
TGGTGATTGAGGATGTTAATGACCACGCCCCTCAATTTGATAAAAAGGAAATACATTTAG
AAATTTTCGAATCTGCATCCGCTGGTACACGACTATCGCTTGACCCTGCCACGGATCCTG
ATATAAACATAAACTCAATTAAAGATTATAAGATAAACTCTAATCCTTATTTTTCATTAA
TGGTTAGAGTTAATTCCGATGGTGGCAAATACCCAGAGTTATCTCTGTAGAAACTTCTAG
ACCGGGAAAGACAGAGATCTCATAGCTTGATATTGACTGCCTTGGACGGAGGGGACCCAC
CAAGGAATGCCACCGCTCACATAAAAATTTCTGTCAGGATACCAATGATAACCCCCCGGT
TTTAGCAGAGACGAATTTAGAATAAGTCTTATGAAAAATTGCCCCCTGGGTCCCTGTGTT
GCAAGTGACAACC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018927 unedited
NCCGTGGTGNACCGAACCGCAATCNANGATCGAGTTTTTTTTTTTTTTTTTCAGAAAAA
AACGTTTTATTATTTTTTGTCGAAGAAAAAAAGCCATATAAATATTAGAGTATAAAACTT
GCGTGAGACACAGGAAGAGGGTGGGGTGGGAGCTACGTGACTATGCGAAGAGAAGCGCTT
ATAGGAGAAGTCAGTACGGGGGAGGGGGTCGCCTTAGCGCGTGGACACAGCACAAAACAC
AACACGGGCCGCCGCGGGCAGATCAAGGACAGACGGCTGCGCGGAGCCCGCCGCCCGCTG
CCCACCCGCCATCACGTAAAAGCACACCGCACTACACTACTGGCTATTCTACACCAGCCG
AAAGAGGGAGGGGGCGCTACACTACTGTAAGGGCAGGTCTGGGGTTCTCTGGCAGCCCCG
CTGGATGGCCGGGGACCCAGGGGCAGAAGGGGGTGGGAGAAGAAGGTCTATGCTCATGGA
GGCTCTGGGGACCTTTAACCCGCCTATGGCCACTAGGGGGCGCCCTTGCGACCTGGGCCG
TGGCCCTCTCGGTTGCCTTTCGGCTCCTGCTCGGTGTTGGCCTGTGCCTTTTCGGGCTCG
TCCCTCTGTTGCCTCCCCTCTTTTCTGTCCTGTTTTCTTCCGCCCCCCCCGTCCCTCTCT
CCCTTCCCCGTCCCTCCTTTCTCCTCCTTCCCTTCCCGTTTCTCTTTCCTCCCTCCCTTC
CTTCTCCGCCCCCCTTTCCCTCCTCCCCCCCTTTCCTCCCTCCTCTCGCTTCCCGCTCTC
CGCTCCTCCCCTTTTTCTCGTCTCCCTGTCCTTTCTTTCCTCCTTTCCCCGCTGCCCCCG
TCTGTCCCCTTCTCCCTCGGCTTCCGTCCTCCCCCTCTTCTCTCTTCTTCCGCTACCTAN
CCCCCACCACAAACCAAAATA

Restriction Sites: NotI-NotI

ACCN: NM_018927

Insert Size: 4200 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_018927.2, NP_061750.1
RefSeq Size:	4765 bp
RefSeq ORF:	2790 bp
Locus ID:	56099
UniProt ID:	Q9Y5F8
Cytogenetics:	5q31.3
Domains:	CA
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 (1) includes the constant region exons and encodes the longer isoform (1).