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Product datasheet for SC112702

PCDHGB4 (NM_003736) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGB4 (NM_003736) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCDHGB4
Synonyms:	CDH20; FIB2; PCDH-GAMMA-B4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>NCBI ORF sequence for NM_003736, the custom clone sequence may differ by one or more nucleotides

ATGGGGAGCGGCGCCGGGGAGCTGGGCCGGGCTGAGAGGCTGCCAGTGCTCTTTCTCTTCCTGCTGTCTT
TGTTCTGCCCGGCGCTCTGTGAGCAGATCCGCTACAGGATTCCCGAGGAAATGCCCAAGGGCTCCGTAGT
GGGGAACCTCGCCACGGACCTGGGGTTCAGCGTCCAGGAGTTACCGACTCGAAAACTGCGCGTCAGTTCG
GAGAAGCCTTACTTCACCGTGAGCGCAGAGAGCGGGGAGTTGCTTGTGAGCAGCAGGCTAGACAGGGAGG
AGATATGCGGGAAGAAGCCAGCTTGTGCTCTGGAATTTGAGGCTGTTGCTGAAAATCCACTGAACTTTTA
TCACGTGAATGTGGAGATCGAGGACATTAATGACCACACGCCAAAATTCACGCAAAATTCCTTTGAGCTG
CAAATAAGTGAGTCTGCACAGCCTGGCACACGATTTATATTAGGATCTGCCCATGATGCGGATATTGGTA
GCAACACACTGCAGAATTACCAACTCAGTCCCAGTGATCATTTCTCACTGATAAATAAAGAGAAATCAGA
TGGCAGTAAATACCCTGAGATGGTATTGAAGACACCTTTGGACAGAGAAAAGCAGAAATCCTACCACTTG
ACTTTGACTGCCTTGGACTTTGGAGCTCCACCCCTAAGCAGCACTGCACAGATACACGTTCTAGTGACTG
ATGCCAATGATAATGCTCCAGTGTTCAGTCAAGACGTATACAGGGTGAGCCTTTCAGAAAACGTGTACCC
GGGGACCACGGTGCTACAGGTGACTGCCACGGACCAGGATGAGGGTGTCAATGCCGAGATTACTTTCTCT
TTCAGTGAAGCTAGCCAGATCACCCAATTTGACCTGAACTCTAACACCGGGGAAATTACTGTTTTAAATA
CATTAGATTTTGAAGAAGTCAAAGAATATTCCATAGTTTTGGAAGCAAGGGACGGTGGAGGAATGATTGC
GCAATGCACAGTGGAGGTAGAAGTCATAGATGAAAATGACAACGCCCCAGAAGTGATATTCCAGTCTCTA
CCCAACCTAATTATGGAGGACGCCGAGCTGGGAACACATATTGCTTTGCTCAAAGTCCGTGACAAGGATT
CCAGACACAATGGAGAAGTGACTTGTAAATTGGAAGGTGATGTTCCATTTAAAATATTAACTTCTTCAAG
AAACACGTATAAATTAGTGACAGATGCTGTTCTAGACCGCGAGCAGAATCCAGAGTACAATATAACCGTT
ACGGCAACAGATCGGGGCAAGCCTCCCCTCTCCTCCAGTTCCAGCATCACCCTGCACATTGGTGATGTAA
ATGACAACGCTCCGGTTTTCTCACAGTCTTCCTATATAGTCCACGTGGCCGAGAACAACCCGCCTGGAGC
CTCTATTTCACAAGTCAGGGCTTCTGATCCGGACTTGGGGCCCAACGGCCAAGTCTCTTACTGCATCATG
GCCAGTGACCTGGAGCAGCGGGAGCTGTCATCCTACGTGTCCATAAGCGCGGAGAGCGGGGTGGTGTTCG
CGCAGCGCGCCTTCGACCACGAGCAGCTGCGCGCCTTCGAACTCACACTGCAGGCCCGCGACCAGGGCTC
GCCAGCGCTCAGCGCGAACGTGAGCCTGCGCGTGTTAGTGGACGACCGCAACGACAATGCGCCACGGGTG
CTGTACCCCGCGCTGGGTCCCGACGGCTCTGCGCTCTTCGATATGGTGCCGCACGCTGCAGAGCCTGGCT
ACTTGGTGACCAAGGTAGTGGCGGTGGACGCAGACTCAGGACACAACGCCTGGCTGTCCTACCACGTGCT
GCAGGCTAGCGAGCCCGGGCTCTTCAGCCTGGGGCTGCGCACGGGCGAAGTGCGCACAGCGCGTGCCTTA
GGCGACAGGGACGCCGTCCGCCAGCGCCTTCTGGTCGCCGTGCGTGACGGTGGACAGCCACCACTCTCGG
CCACTGCCACGTTGCACCTGGTCTTCGCCGACAGCTTGCAGGAGGTGCTGCCGGATATCACTGACCGCCC
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CAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACCAGTTTGACACAGAGATGCTGCAA
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TGGGATTGAGCGCCCGCTACGGACCCCAGTTCACCCTGCAGCACGTGCCCGACTACCGCCAGAATGTCTA
CATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGC
AATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003736 unedited
TATACGACTACTATAGGCGGCCGCGACATTCGCACGAGGCCGCTTCCTCCTCGGAAAAAG
AAACTTTTTTCTTGAACTGGAACTGCAACTAAAGTCCGTTCGGAGATCCAAAAATCTGCA
ATACAGAGGTTATTTGTAACCCGGCGTCTCCAGGCTGGTGAGCAAGCTGAGGAGAGCAAG
AGGGATGGGGAGCGGCGCCGGGGAGCTGGGCCGGGCTGAGAGGCTGCCAGTGCTTCTTTC
TTCTTCCTGCTGTCTTTGTTCTGCCCGGCGCTCTGTGAGCAGATCCGCTACAGGATTCCC
GAGGAAATGCCCAAGGGCTCCGTAGTGGGGAACCTCGCCACGGACCTGGGGTTCAGCGTC
CAGGAGTTACCGACTCGAAAACTGCGCGTCAGTTCGGAGAAGCCTTACTTCACCGTGAGC
GCAGAGAGCGGGGAGTTGCTTGTGAGCAGCAGGCTAGACAGGGAGGAGATATGCGGGAAG
AAGCCAGCTTGTGCTCTGGAATTTGAGGCTGTTGCTGAAAATCCACTGAACTTTTATCAC
GTGAATGTGGAGATCGAGGACATTAATGACCACACGCCAAAATTCACGCAAAATTCCTTT
GAGCTGCAAATAAGTGAGTCTGCACAGCCTGGCACACGATTTATATTTANGATCTGCCCA
TGATGCGGATATTGGTAGCAACACACTGCAGAATTACCAACTCAGTCCCAGTGATCATTT
CTCACTGATAATAAAGAGAAATCAGATGGCAGTAAATACCTTGAGAGGTAATNGAAAGAC
ACCTTTGACAGAGAAAGCAGAAATNCTACACCTGACTTGGACTGNCTTNGACTTTTGAAG
CCTCACCCTAAGCACACTGACAGAAACACGTTCTAATGACTGATGCAATGATATGTTCCC
CNGGGTATNAAAAATTATAAAGGGTGAACCTTAAAAAAACGGACCCGGGGAACCCGGGTT
TAAAGGGATGCACGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003736 unedited
TTTATTATTCTTTTTTTTCGAANAAAAAAAGCCTATAAATATTAGAGTATAAAACTTGCT
TGAGACACAGGAAGAGGGTGGGGTGGGAGCTACGTGACTATGCGAAGAGAAGCGCTTATA
GGAGAAGTCAGTACGGGGGAGGGGGTCGCCTTAGCGCGTGGACACAGCACAAAACACAAC
ACGGGCCGCCGCGGGCAGATCAAGGACAGACGGCTGCGCGGAGCCCGCCGCCCGCTGCGC
ACCCGCCATCACGTAAAAGCACACCGCACTACACTACTGGCTATTCTACACCAGCCGAAA
GAGGGAGGGGGCGCTACACTACTGTAAGGGCAGGTCTGGGGTTCTCTGGCAGCCCCGCTG
GATGGCCGGGGACCCAGGGGCAGAAGGGGGTGGGAGAAGAAGGTCTATGCACAAGGAGGC
ACTGGGGAACTTTAACCAGGCTATGGCCACTAGGGGGCGCACTGGGGACCTGGGCAGTGG
CCTTCACGGAAGAGAAACGGCACCTGGCAAGGTGAAGGACTGAGGCTTCAGGAGGGCAGG
GGCCCTGTTGAAGAAGCCCCATCCTGGGCTGAGACTTTCTGTTCATTTGGTCCCTGCCCT
AGCTCCCTGCCTCCCCAACCCAGGGACTAAGAATGGCCTGGCTGGCCCACCCTTNCTGCT
GGGGCTCCGCTGACCCTTNCACCAGTGGCACCTCTGGAGTACCCAGCACCCACAGAGGCC
CCTCTGACCTCTCAAGGGGACCCTGTTCCTAAACCTGCTTCGAGCTTCCTTGGACTGAAA
TGCCAGTTAATCCATTGGGCCTGTTAGCTCAGCCCAAGCTGGCTGCCTGGGCTGAGCCCT
ATATGTAGTGGGAAAGGGTCCAGCCTAATATTGGGTTATGGCTGGGATCTGGAGGATGTT
GTCAGTTCCCTGAGACATACANAGCCTTCTCCAAGGCCTGATACTTGATTGTTAGGTTTG
TCCATGCCCACCATCCAATCACCACTTCCTTCTTTTTTACCCCCTAATGGTTGGAATGCG
GGG

Restriction Sites: NotI-NotI

ACCN: NM_003736

Insert Size: 4470 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_003736.2, NP_003727.1
RefSeq Size:	4578 bp
RefSeq ORF:	2772 bp
Locus ID:	8641
UniProt ID:	Q9UN71
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. This particular family member is expressed in fibroblasts and is thought to play a role in wound healing in response to injury. 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).