

Datasheet for ABIN4942930

Human PCDHgB3 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	PCDHgB3
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PEXP)

Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human PCDHGB3 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	2445 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGGAAATA GCTCCGGATG GAGGGGCCCA GCAGGGCAGA GGCGAATGCT ATTTCTCTTC CTGCTCTCTT TGTTAGACCA GGCTCTCTCC GAACCGATCC GCTACGCTAT TCCCGAGGAG CTGGACAGGG GCTCGCTGGT AGGGAACCTC GCCAAGGACC TGGGGTTTGG CGTGGGGGAT TTACCTACTA GGAACCTGCG GGTTATTGCA GAGAAGAAAT TCTTTACCGT GAGCCCCGAA

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AATGGGA ACT TACTTGTGAG CGACCGTATA GACCGAGAGG AGATTTGTGG CAAGAAGTCG
ACGTGTGTTT TGGAAATTTGA AATGGTTGCT GAAAAGCCTT TAAACTTTTT TCATGTA ACT
GTGCTGATCC AGGATATTA CGACAACCCA CCGACCTTTA GCCAAAATAT CACTGAGCTG
GAAATCAGCG AACTGGCTCT CACTGGAGCC ACATTTGCCC TGGAACTCTGC GCAAGATCCT
GATGTAGGTG TCAATTCGCT GCAGCAGTAC TACCTCAGCC CTGATCCGCA CTTCTCTTTG
ATTCAGAAGG AGAACCTGGA TGGCAGTAGG TACCCAGAGC TAGTACTGAA AGCACCCCTG
GACAGGGAAG AGCAGCCACA TCACCACCTG GTCCTCACAG CTGTGGATGG GGGCGAGCCC
TCCAGAAGCT GTACCACCCA GATCAGGGTA ATTGTGCGAG ATGCAAATGA TAACCCCCCA
GTATTTACTC AGGACATGTA CAGGGTCAAT GTTGCAGAGA ACCTGCCCGC TGGCTCCTCC
GTATTAAG TGATGGCCAT TGACATGGAT GAGGGCATCA ATGCCGAAAT CATCTATGCC
TTCATCAATA TTGGCAAGGA AGTGAGACAA CTGTTCAAGC TGGACAGTAA AACGGGGGAA
CTCACCACTA TTGGAGA ACT GGACTTTGAA GAGAGAGATA GCTACACAAT TGGGGTGGAA
GCAAAGGATG GTGGACATCA CACTGCATAT TGTAAGTAC AGATAGATAT TTCAGATGAA
AATGACAATG CCCC GGAGAT AACCTGGCT TCTGAATCCC AACATATACA AGAAGATGCT
GAGCTGGGGA CTGCCGTTGC CCTGATCAAA ACACATGATC TAGATTCTGG ATTTAATGGA
GAAATCCTAT GCCAACTAAA AGGAAACTTC CCCTTTAAAA TCGTTCAAGA TACCAAAAAC
ACATACAGGT TGGTGACAGA TGGAGCCCTG GACCGGGAGC AGATCCCAGA ATACAATGTG
ACGATCACAG CTACCGACAA AGGCAATCCA CCGCTCTCCT CCAGCAAGAC CATCACTCTG
CACATCCTTG ATGTCAACGA CAACGTTCCC GTTTTCCACC AGGCCTCCTA CACCGTGCAT
GTAGCTGAGA ACAATCCGCC TGGAGCCTCC ATTGCGCATG TCAGAGCCTC GGATCCCGAC
TTGGGACCTA ATGGCCTTGT CTCCTACTAC ATCGTGGCCA GTGACCTGGA GCCGCGGGAG
CTGTCGTCCT ACGTGTCCGT GAGCGCGCGG AGCGGGGTGG TGTTGCGGCA GCGAGCCTTC
GACCACGAGC AGCTGCGTGC CTTGAGCTC ACTCTGCAGG CCCGCGACCA GGGCTCGCCT
ACGCTCAGCG CCAACGTGAG CCTGCGCGTG TTGGTGGACG ACCGCAACGA CAATGCACCG
CTGGTGCTGT ACCCAGCTCT GGGCCCCGAA GGCTCTGCGC TCTTCGATAT GGTGCCGCGC
TCTGCAGAGC CTGGCTACCT GGTGACCAAG GTGGTGGCGG TGGACGCAGA CTCGGGATAC
AACGCTGGC TGTCTACCA CATTGTGCAG GCCAGCGAGC CCGGGCTGTT CAGCCTGGGC
CTGCGCACGG GTGAGGTGCG CACGGCGCGT ACCTTGGGCG ACAGGGAGGC CGCCCGCCAG
CGCCTGCTGG TCACTGTGCG TGATGGAGGA CAGCAGCCTC TTTAGCCAC CGTCATGCTG
CACCTAATCT TCGCAGATAG CTTGCAAGAG ATACAACCTG ACCTTAGCGA CCGCCCCACT
CCCTCTGACC CTCAGGCGGA GCTACAGTTT CACCTAGTAG TGGCGTTGGC CTTGATCTCA
GTGCTCTTCC TCCTCGCGGT GATTCTGGCA ATCTCCCTGC GCCTGCGATG CTCCTCCAGA
CCCGCCACTG AGGGCTACTT TCAGCCTGGT GTCTGCTTCA AGACTGTACC TGGAGTTCTC
CCCACCTACA GCGAAAGGAC TTTGCCTTAT TCCTACAATC CGTGTGCTGC CTCACATTCC
TCAAACACCG AGTTTAAATT TCTCAATATA AAGGCTGAAA ATGCTGCACC ACAAGATCTT
CTATGTGATG AAGCCTCTTG GTTTGAAAGT AATGACAATC CAGAAATGCC TTCTAATTCA

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Product Details

GGCAATTTGC AAAAGGTGAG TTTCTTCAA CCTTCCTTC CATAA

Specificity: ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology

Characteristics: Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.

Sequencing Primer:

- Forward primer: 5'-TAATACGACTCACTATAGGG-3'
- Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'

Grade: End-sequenced

Components: The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

Target Details

Gene: PCDHgB3

Alternative Name: PCDHGB3 ([PCDHgB3 Products](#))

Background: 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].

Gene ID: 56102

NCBI Accession: [NM_032097](#)

Application Details

Restrictions: For Research Use only

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Handling

Format: Lyophilized

Storage: RT/-20 °C

Storage Comment:

- Keep the vial sealed and store at -20°C for long-term storage.
- Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C.
- Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA.
- If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA.
- Close the lid and vortex the vial for 1 minute.
- Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.

Expiry Date: 12 months

Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)