

Product datasheet for RC217110L4

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PCDHGB3 (NM_018924) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PCDHGB3 (NM_018924) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: PCDHGB3

Synonyms: PCDH-GAMMA-B3

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

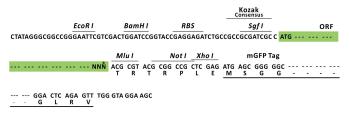
The ORF insert of this clone is exactly the same as(RC217110).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_018924

ORF Size: 2787 bp





PCDHGB3 (NM_018924) Human Tagged Lenti ORF Clone - RC217110L4

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: <u>NM 018924.2</u>, <u>NP 061747.1</u>

 RefSeq Size:
 4596 bp

 RefSeq ORF:
 2790 bp

 Locus ID:
 56102

 UniProt ID:
 Q9Y5G1

 Cytogenetics:
 5q31.3

Protein Families: Transmembrane

MW: 97.9 kDa

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 immunoglobulinlike 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

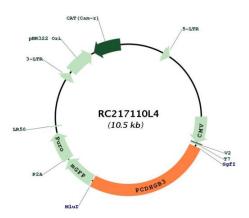
distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster.

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]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



Product images:



Circular map for RC217110L4