

## Product datasheet for **RC217748**

### **PCDHGA1 (NM\_018912) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PCDHGA1 (NM_018912) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHGA1
Synonyms:	PCDH-GAMMA-A1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RC217748 representing NM\_018912  
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC217748 representing NM\_018912  
 Red=Cloning site Green=Tags(s)

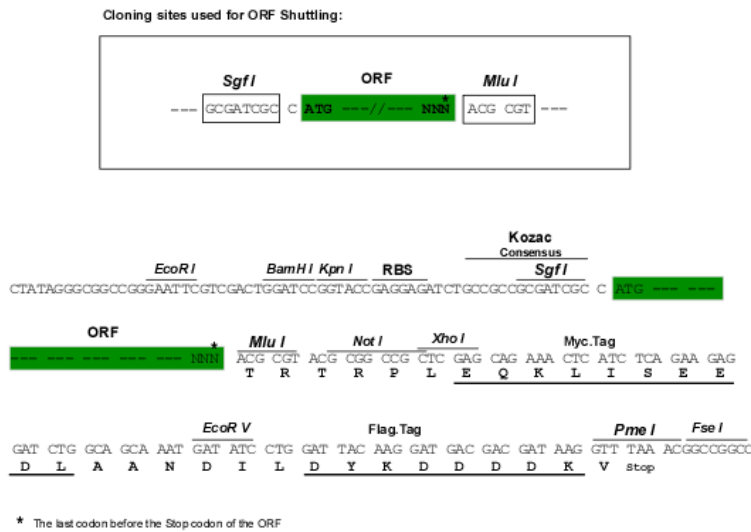
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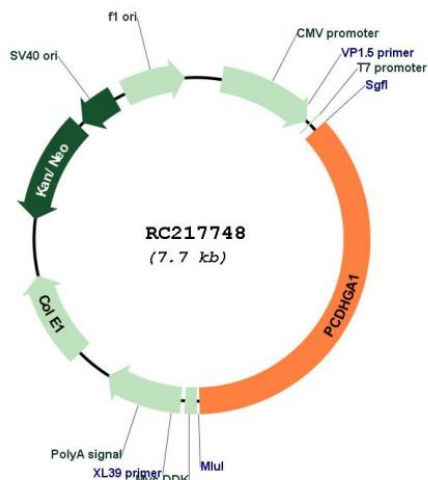
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Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_018912

**ORF Size:** 2793 bp

**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.

**RefSeq:** [NM\\_018912.2](#), [NP\\_061735.1](#)

**RefSeq Size:** 4602 bp

**RefSeq ORF:** 2796 bp

**Locus ID:** 56114

**Domains:** CA

**Protein Families:** Transmembrane

**MW:** 98.1 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 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]