

Product datasheet for **RC217347**

PCDHGA11 (NM_018914) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGA11 (NM_018914) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHGA11
Synonyms:	PCDH-GAMMA-A11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Protein Sequence: >RC217347 representing NM_018914
 Red=Cloning site Green=Tags(s)

MANRLQRGDRSRLLLLLCIFLGTLRGFRARQIRYSVPEETEKGSFVGNISKDLGLEPRELAKRGVRIVSR
 GKTQLFAVNPRSGSLITAGRIDREELCEVSSCFNMELLVEDTLKIYGVVEIIDIINDNAPSFQEDEVE
 IKVSEHAIPGARFALPNARDPDVGVNSLQSYQLSPNNYFSLQLRGRTDGAKNPVLVLEGLDREKEAAHL
 LLLTALDGGDPIRKGAVPIRVVLDVNDHIPMFTQSVYRVSVPENISSGTRVLMVNATDPDEGINGEVMI
 SFRNMEKASEIFQLDSQTGEVQVRGSLDFEKYRFYEMEIQQQDGGGLFTTTTMLITVVDVNDNAPEITI
 TSSINSILENSPPGTVIALLVNQDQDSGENGQVSCFIPNHLPFKLEKTYGNYKLIITSRVLDREL VQSYN
 ITLTATDQGSPPLSAETHVWLVNADDNDNPPVFPHSSYSAYIPENNPRGASIFSVTALDPSKQNALVTY
 SLTDDTVQGVPLSSYVSINSNTGVL YALQSF DYEQFRDLELRVIARDSGDPPLSSNVSLSLFVLDQNDNA
 PEILYPALPTDGTGVELAPRSAEPGYLVTKVAVDKDSGQNAWLSYRLLKASEPGLFAVGEHTGEVRTA
 RALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPEVLADLGSLESLANSETSDL SLYLVVAVAA
 VSCIFLVFVIVLLALRLWRWHKSRLQLQASEGLAGMPTSHFVGVDGVQAF LQYTSHEVSLIADSQKSHLI
 FPQPNYGDTLISQESCEKSEPLLIAEDSAIILGKCDPTSNQQAPPNTDWRFSQAQRPGTSGSQNGDDTGT
 WPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNATLNTNA
 AGKRDGKAPAGGNGNKKKSGKKEKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8108_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



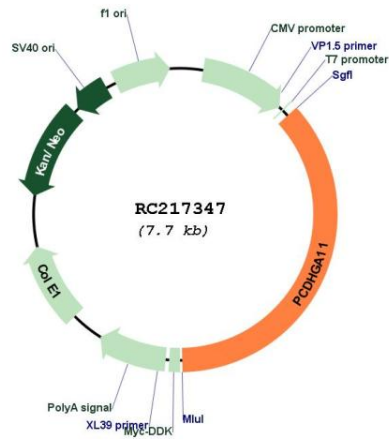
* The last codon before the Stop codon of the ORF

ACCN: NM_018914

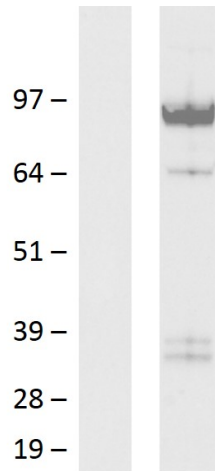
ORF Size: 2805 bp

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.
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:	<ol style="list-style-type: none"> 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_018914.3
RefSeq Size:	4872 bp
RefSeq ORF:	2808 bp
Locus ID:	56105
UniProt ID:	Q9Y5H2
Cytogenetics:	5q31.3
Domains:	CA
Protein Families:	Transmembrane
MW:	98.5 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for RC217347



Western blot validation of overexpression lysate (Cat# [LY412926]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217347 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).