

## Product datasheet for **RC223351**

### **PCDHGA11 (NM\_032091) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                             |
|---------------------------|---------------------------------------------|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | PCDHGA11 (NM_032091) 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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**ORF Nucleotide  
Sequence:**

>RC223351 representing NM\_032091  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGAATCGGCTACAGCGCGGGACCGCAGTCGGCTGCTGCTGCTGCTGTCATTTCTGGGACGC  
 TCGGGGGTTCCGGGCCAGGCAGATCCGATATTCGGTGCCAGAAGAGACCGAAAAGGGCTCCTTCGTGGG  
 CAATATCTCCAAGGACCTGGGGCTGGAGCCCCGGGAGCTGGCGAAGCGCGGAGTCCGCATCGTCTCCAGA  
 GGAAGACACAGCTTTTCGCTGTGAATCCGCGAAGCGGCAGCTTGATCACGGCAGGCAGGATAGACCGGG  
 AGGAGCTCTGTGAGACGGTGTCTCCTGTTTTTAAATATGGAACCTCTCGTGGAAGACACCTTGAAGAT  
 TTACGGAGTGGAGGTGAAATAATAGATATTAATGATAACGCCCCAGCTTCCAGGAGGACGAAGTGGAG  
 AAAAAAGTCAGTGAGCACGAATTCCTGGGGCGCGATTTGCTCTTCCTAATGCTAGGGATCCAGATGTGG  
 GCGTGAATCCCTCCAGAGCTACCAGCTCAGCCCTAATAATTACTTTTCCTTGAACCTGCGGGGCAGAAC  
 GGATGGGGCCAAGAATCCAGAGCTAGTACTGGAGGGAAGCCTGGACCGAGAGAAAAGAGGCTGCTCACCTG  
 CTCCTCCTCACAGCTTTAGATGGAGGCGATCCCATCCGAAAGGGCGCAGTTCCTCATTGCTGTGGTGGTCC  
 TCGATGTAATGATCACATCCCAATGTTTACACAGTCCGTATATCGCGTGAGTGTCCAGAAAACATCAG  
 CTCCGGAACCTCGGGTGCTGATGGTTAATGCAACGGATCCAGACGAGGGAATCAACGGGGAAGTAATGTAT  
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 TACGGGGTCTCTGGATTTTAAAAATATAGATTCTATGAGATGGAAATCAAGGCCAAGATGGTGGAGG  
 TCTCTTTACCACCACGACGATGTTGATCACTGTTGTGGATGTGAATGATAACGCTCCAGAAATACTATC  
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 CAGGGGTGCCTCCATCTTCTCAGTGACCGCCCTCGACCGGACAGCAAACAGAATGCCCTGGTCACTTAC  
 TCTCTGACGGATGACACTGTCCAGGGGTGCCTCTGTCTCTCTATGCTCTATTAACCTCAACACTGGTG  
 TTCTCTATGCCCTACAATCCTTCGACTATGAGCAGTTTCGAGACTTAGAACTGAGAGTGATAGCACGTGA  
 CAGCGGGGACCCGCCCTCAGCAGCAACGTGTCGCTGAGCCTGTTCTGTGCTGGACCAGAACGACAATGCG  
 CCCGAGATCCTGTACCCTGCCCTCCACAGACGGCTCCACTGGCGTGGAGCTGGCGCCCCGCTCTGCGG  
 AACCTGGCTACCTGGTGACCAAGGTGGTTGCGGTGGACAAAGATTAGGCCAGAACGCCTGGCTGTCCTA  
 TCGCCTGCTTAAGGCCAGCGAGCCGGGACTCTTCGCGGTGGGGGAGCACACGGGCGAGGTGCGTACAGCG  
 CGGGCACTGCTGGACAGAGACGCGCTCAAGCAGAGCCTCGTGGTGGCCGTCCAGGACCACGGCCAGCCCC  
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 TAGCTGAAGACTCAGCTATCATTTTAGGCAATGTGACCCGACAAGTAATCAGGTGAGATTTATTTCTCT  
 GCCTCCTAATTGTTGGTGTCTTGGCACAAGTCTTTAAGGAGATGTTTTTGGCCTGTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
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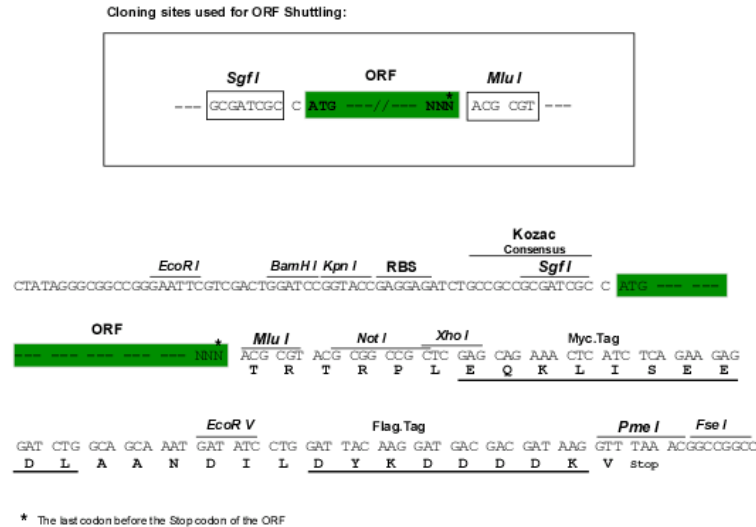
**Protein Sequence:** >RC223351 representing NM\_032091  
 Red=Cloning site Green=Tags(s)

MANRLQRGDRSRLLLLLCIFLGTLRGFRARQIRYSVPEETEGSFVGNISKDLGLEPRELAKRGVRIVSR  
 GKTQLFAVNPRSGSLITAGRIDREELCETVSSCFLNMELLVEDTLKIYGEVEIIDINDNAPSFQEDEVE  
 IKVSEHAIPGARFALPNARDPDVGVNSLQSYQLSPNNYFSLQLRGRTDGAKNPELVLEGLDREKEAAHL  
 LLLTALDGGDPIRKGAIPIRVVLDVNDHIPMFTQSVYRVSPENISSGTRVLMVNATDPDEGINGEVMY  
 SFRNMESKASEIFQLDSQTGEVQVRGSLDFEKYRFYEMEIQQQDGGGLFTTTTMLITVVDVNDNAPEITI  
 TSSINSILENSPPGTVIALLLNVQDQDSGENGVSCFIPNHLPFKLEKTYGNYYKLITSRVLDRELVSYN  
 ITLTATDQGSPLSAETHVWLVNADDNDNPPVFPHSSYSAYIPENNPRGASIFSVTALDPDSKQNALVTY  
 SLTDDTVQGVPLSSYVSINSNTGVLVALQSFQDYEQFRDLELRVIARDSGDPPLSSNVSLSLFVLDQNDNA  
 PEILYPALPTDGGSTGVELAPRSAEPGYLVTKVVAVDKDSGQNAWLSYRLLKASEPGLFAVGEHTGEVRTA  
 RALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPEVLADLGSLESLANSETSDLVSLVAVAA  
 VSCIFLVFVIVLLALRLWRWHKSRLQASEGGLAGMPTSHFVGVDGVQAFQTYSHEVSLIADSQKSHLI  
 FPQPNYGDTLISQESCEKSEPLLIAEDSAIILGKCDPTSNQVRFISLPPNCWCLGTSLLRRCFLSLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

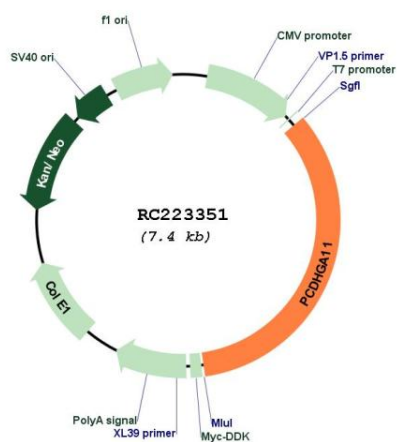
Cloning Scheme:



|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACCN:           | NM_032091                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ORF Size:       | 2511 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. <a href="#">More info</a> |
| 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).                                                                                                                                                                                                                                                               |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>RefSeq:</b>                | <u><a href="#">NM_032091.2</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq Size:</b>           | 3117 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>RefSeq ORF:</b>            | 2514 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Locus ID:</b>              | 56105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID:</b>            | <u><a href="#">Q9Y5H2</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Cytogenetics:</b>          | 5q31.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Protein Families:</b>      | Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>MW:</b>                    | 88.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Gene Summary:</b>          | <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 RC223351