

## Product datasheet for **MR221529**

### **Pcdhga4 (NM\_033587) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pcdhga4 (NM_033587) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcdhga4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR221529 representing NM\_033587  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGCTCCTTACAAATCAGACCGCAGGGGACTAATCTGGATCTGCATTTTCCTTGGATCCCTATGCG  
 ACATCCGCGCGAACAGATCCGGTACTCTGTGCCGGAGGAGCTGGAAAGGGGCTCTGTGGTGGGTAATCT  
 CGCCGCGGACCTGGGGCTGGAGCCTGGAAAACCTGGCAGAACCGGAGTCCGCATCGTCTCCAGAGGTAAG  
 ACCCAGCTCTTTGCTCTGAACCCGCGAAGCGGCAGTTTGGTGACAGCAGGGAGGGTCGACAGAGAAGGGC  
 TCTGTGACAGATCCCAAAGTGTACCGCAAATCTGGAGATTCTCCTAGAGGATAAAGTGAGGATTCTAGC  
 CATAGAAGTGGAGATTATCGATGTTAATGATAATGCCCCAGCTTTGGAGCACAGCAGAGAGAAAATAAAA  
 GTCGCTGAAAGTGAATACTCTGGACAAGATTTCTCTTCTGAAGCCTTTGATCTGGACATAGGGGTGA  
 ACGCCTTGCAAGGTTACCAGCTCAGCTCCAATGATCACTTCTCCCTGGATGTGCAAAGTGGACCGGATGG  
 GATTAAGTATCCAGAGCTAGTGTGGAAAATGCCTTAGACCGCGAGGAAGAAGCCGTTTCATCACCTGGTT  
 CTACCCGCTTCGACGGAGGCGACCCGGTTCGCTCTGGTACTGCCACAATTCAAGTAACACTCGTGGACA  
 CCAACGACAATGCTCCTGTATTCACTCAGCCAGAGTACCACATTAGTGTGAAAGAGAATTTGCCTGTAGG  
 CACCCGGCTGCTTACCATAAAAGCCACTGACCCGGATGAAGGAGTCAACGGAGAAGTGACGTATTCTTTC  
 CGGAACGTAAGAGAGAAAATCTCCAGCTCTTCCAGCTGAATTCTCTGACTGGGGACATTACAGTGTGG  
 GGGAACTGGATTATGAAGACTCTGGATTCTACGATGTTGACGTAGAAGCCATGATGGGCTGGTCTTCCG  
 AGCCAGAAGTAAGTACTGGTGACAGTTCTGGATGTAATGACAATGCCCGGAAGTACAGTCACTCT  
 CTCACAGCTCTATCCAGGAAGCTTCTCCAGCAGCAGTATTGCACCTTCAACGTCACGACAGCCG  
 ACTCTGGAGAGAACGGCCTTGCACTTGTCTATTCCAGATAATCTTCCATTCAAGTGGAAAAGACCTA  
 TGGAAATTATCATCGGTTGTTGATACACAGGACTCTGGACAGGAAGAAGTCTCTGACTATAACATTACA  
 ATAACGCAACCGACAGGAACTCCACCTCTGTCTACAGAGACTTATATCTCATTGCAGGTGGTAGATA  
 TTAATGACAACCCGCGACCTTACCCATGCCTCCTATTCTGCTTACATTCCAGAAAACAACCTAGAGG  
 AGCTTCCATCTTATCCATAACAGCCAGGACCCAGACAGTGGTGAGAATGCCAGGTTATCTATTCTCTG  
 TCAGAGGACACTATCCAGGGGCACCTATGTCCTCCTACGTCTCCATAAACTCCAATACCGGTGTCCTTT  
 ATGCACGCGTTCCTTTGATTATGAGCAGTTTCAAGACTTGAAGTACTGGTGACAGCCAGGACAGTGG  
 GACTCCTCCACTCAGCAGCAACGTGTCCTGAGCTTGTCTGTGCTGGACCAGAACGATAACACCCCTGAG  
 ATCCTGTATCCCACCATCCCAGTATGTTTCTACTGGTGTGGAGCTGACACCTCGTTCTGCAGATCCTG  
 GATACCTGGTGACCAAGTGGTGGCCGTAGACAAAGACTCAGGACAGAACGCCTGGCTGTCTACCGCT  
 GCTCAAGGCCAGCGAGCCAGGGCTCTTCTCAGTGGGGCTGCACACAGGTGAGGTACGCACTGCTCGGGCC  
 CTGCTGGACAGAGATGCTCTCAAGCAGAGCCTGGTGGTGACCGTGCAGGACCATGGCCAGCCCCCTCT  
 CCGCCACTGTCACACTACCATAGCTGTGTGACACAACATTCCAGACATCCTGGCTGATCTGGTCAACAT  
 TAACGCCCCATTGACCAGGAGGATTGACAGATCACATTGTACCTGGTGGTAGCTGTGGCTGCGGTCTCT  
 TGTGTCTTCTTAGCCTTTGTCATTGTGTCTGATACACAGGCTCCGTCGCTGGCACTCACTCGCCTGC  
 TTCAGGCTGCAGGTAATGGGTTGTCATCCTTGCCTGCCTCACATTTTGTGGGTGGATGGTGTACACGC  
 TTTCTACAGACCTATTCTCATGAGTCTCACTCACAGCAGACTCTGGGAAGAGTCACTGATCTTCCCA  
 CAGCCCAACTACGCAGACACACTCATCAGCCAGGAGAGCTGTGGGAAGAGTGATCCTCTCCTGGTATCTC  
 AAGACTTGCTTGAATAAAAGGAGACTCCAGTCTGCAGCAAGCCCGCCCAACACTGACTGGCGTTTCTC  
 TCAAGCCAGAGACCCGGCACGAGCGGATCCAAAATGGTGTGAAACTGGCACCTGGCCCAACAACAG  
 TTTGATACAGAGATGCTGCAAGCCATGATCTTGGCCTCTGCCAGCGAAGCTGCTGATGGGAGCTCTACCC  
 TGGGAGGGGGCGCTGGCACCATGGGTCTGAGCGCTCGATACGGACCCAGTTTACCCTGCAGCACGTGCC  
 TGACTACCGCCAGAACGTGTACATCCCTGGCAGCAATGCCAGCTGACCAATGCCCTGGCAAACGAGAT  
 GGCAAGGCTCCAGCAGGTGTAATGGCAACAAGAAGAAAATCGGGCAAGAAAGAGAAGAAG

**ACGCGT**ACGCGGCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAAGTTTAA

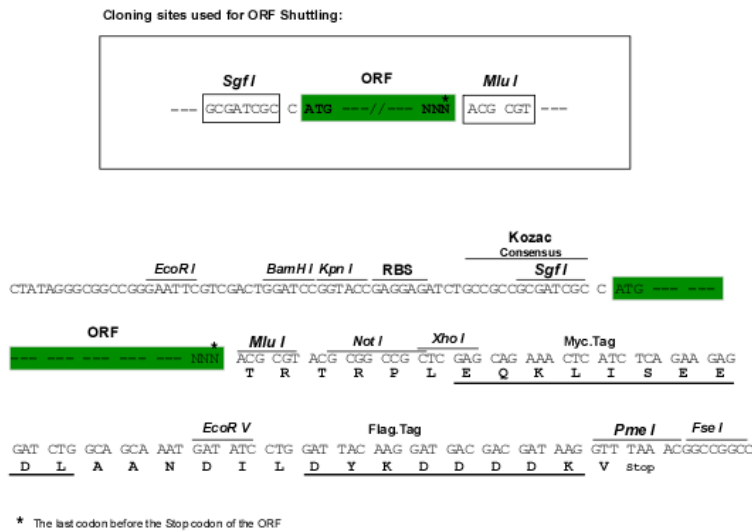
**Protein Sequence:** >MR221529 representing NM\_033587  
 Red=Cloning site Green=Tags(s)

MAAPYKSDRRGLIWICIFLGSLCDIRAEQIRYSVPEELERGSVVGNAADLGLEPGKLAERGVRIVSRGK  
 TQLFALNPRSGSLVTAGRVDREGLCDRSPKCTANLEILLEDKVRILAIEVEIIDVNDNAPSFGAQQREIK  
 VAESENPGTRFPLPEAFDLDIGVNALQGYQLSSNDHFLSDVQSGPDGIKYPVLLENALDREEEAVHHLV  
 LTAFDGGDPVRSQTATIQTIVLVDNDNAPVFTQPEYHISVKENLPVGTRELLTIKATDPDEGVNGETVYSF  
 RNVREKISQLFQLNSLTGDITVLGELDYESGFYDVDVEAHDGGLRARSKVLVTVLDVNDNAPEVTVTS  
 LTSSIQEASSPGTVIALFNVHSDSNGENLVTCSPDNLPFRLEKTYGNYHRLLIHRTLDREEVSDYNYIT  
 ITATDQGTPLSTETYISLQVVDINDNPPTFTHASYSAYIPENNPRGASILSITAQDPDSENAQVIYSL  
 SEDTIQGAPMSSYVSINSNTGVL YALRSFDYEQFDLKLVTARDSGTPPLSSNVSLSLVLDQNDNTP  
 ILYPTIPTDGSTGVELTPRSADPGYLVTKVAVDKDSGQNAWLSYRLKASEPGLFSVGLHTGEVRTARA  
 LLDRDALQSLVTVQDHGQPLSATVTLTIAVSDNIPDILADLVNINAPIDQEDSDITLYLVVAVAAVS  
 CVFLAFVIVLLIHRLRRWHSTRLLQAAGNGLSSLPASHFVGVGVHAFVLTQTSHEVSLTADSGKSHLIFP  
 QPNYADTLISQESCGKSDPLLVSQDLLEIKGSSSLQQAPPNTDWRFSQAQRPGTSGSQNGDETGTWPNNQ  
 FDTFMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSNATLTNAAGKRD  
 GKAPAGGNGNKKKSGKKEKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

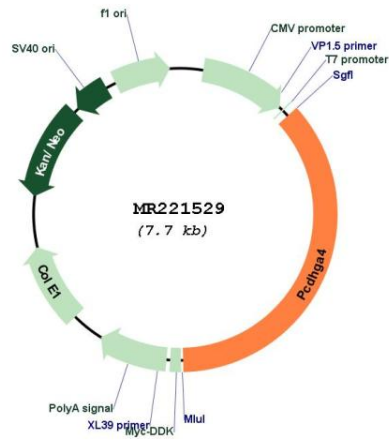
**Cloning Scheme:**



**ACCN:** NM\_033587

<b>ORF Size:</b>	2790 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>RefSeq:</b>	<a href="#">NM_033587.4</a>
<b>RefSeq Size:</b>	4534 bp
<b>RefSeq ORF:</b>	2793 bp
<b>Locus ID:</b>	93712
<b>UniProt ID:</b>	<a href="#">Q91XY4</a>
<b>Cytogenetics:</b>	18 B3
<b>MW:</b>	100.8 kDa
<b>Gene Summary:</b>	Potential calcium-dependent cell-adhesion protein. May be involved in the establishment and maintenance of specific neuronal connections in the brain (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221529