

Product datasheet for **MR211225**

Pcdhga4 (BC049814) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Pcdhga4 (BC049814) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Pcdhga4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR211225 representing BC049814
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCTCCTTACAAATCAGACCGCAGGGGACTAATCTGGATCTGCATTTTCCTTGGATCCCTATGCG
 ACATCCGCGCGGAACAGATCCGGTACTCTGTGCCGGAGGAGCTGGAAAGGGGCTCTGTGGTGGTAACTCT
 CGCCGCGGACCTGGGGCTGGAGCCTGGAAAACCTGGCAGAACCGGAGTCCGCATCGTCTCCAGAGGTAAG
 ACCCAGCTCTTTGCTCTGAACCCGCGAAGCGGCAGTTTGGTGACAGCAGGGAGGGTCGACAGAGAAGGGC
 TCTGTGACAGATCCCAAAGTGTACCGCAAATCTGGAGATTCTCCTAGAGGATAAAGTGAGGATTCTAGC
 CATAGAAGTGGAGATTATCGATGTTAATGATAATGCCCCAGCTTTGGAGCACAGCAGAGAGAAAATAAAA
 GTCGCTGAAAGTGAATACTCTGGACAAGATTTCTCTTCTGAAGCCTTTGATCCGGACATAGGGGTGA
 ACGCCTTGCAAGGTTACCAGCTCAGCTCCAATGATCACTTCTCCCTGGATGTGCAAAGTGGACCGGATGG
 GATTAAGTATCCAGAGCTAGTGTGGAAAATGCCTTAGACCGCGAGGAAGAAGCCGTTTCATCACCTGGTT
 CTACCCGCTTCGACGGAGGCGACCCGGTTCGCTCTGGTACTGCCACAATTCAAGTAACACTCGTGGACA
 CCAACGACAATGCTCCTGTATTCACTCAGCCAGAGTACCACATTAGTGTGAAAGAGAATTTGCCTGTAGG
 CACCCGGCTGCTTACCATAAAAGCCACTGACCCGGATGAAGGAGTCAACGGAGAAGTGACGTATTCTTTC
 CGGAACGTAAGAGAGAAAATCTCCAGCTCTTCCAGCTGAATTCTCTGACTGGGGACATTACAGTGTGG
 GGGAACTGGATTATGAAGACTCTGGATTCTACGATGTTGACGTAGAAGCCATGATGGGCCTGGTCTTCCG
 AGCCAGAAGTAAGTACTGGTGACAGTTCTGGATGTAATGACAATGCCCGGAAGTACAGTCACTCT
 CTCACAGCTCTATCCAGGAAGCTTCTCCAGCAGCAGTATTGCACCTTCAACGTCACGACAGCG
 ACTCTGGAGAGAACGGCCTTGCTACTTGTCTATTCCAGATAATCTTCCATTCAAGTGGAAAAGACCTA
 TGGAAATTATCATCGGTTGTTGATACACAGGACTCTGGACAGGAAGAAGTCTCTGACTATAACATTACA
 ATAACGCAACCGACAGGAACTCCACCTCTGTCTACAGAGACTTATATCTCATTGCAGGTGGTAGATA
 TTAATGACAACCCGCGACCTTACCCATGCCTCCTATTCTGCTTACATTCCAGAAAACAACCTAGAGG
 AGCTTCCATCTTATCCATAACAGCCAGGACCCAGACAGTGGTGAAGATGCCAGGTTATCTATTCTCTG
 TCAGAGGACACTATCCAGGGGACCTATGTCCTCCTACGTCTCCATAAACTCCAATACCGGTGTCCTTT
 ATGCACGCGTTCCTTTGATTATGAGCAGTTTCAAGACTTGAAGTACTGGTGACAGCCAGGACAGTGG
 GACTCCTCCACTCAGCAGCAACGTGTCCTGAGCTTGTCTGTGCTGGACCAGAACGATAACACCCCTGAG
 ATCCTGTATCCCACCATCCCCTGATGGTTCTACTGGTGTGGAGCTGACACCTCGTTCTGCAGATCCTG
 GATACCTGGTGACCAAGTGGTGGCCGTAGACAAAGACTCAGGACAGAACGCCTGGCTGTCTACCGCT
 GCTCAAGGCCAGCGAGCCAGGGCTCTTCTCAGTGGGGCTGCACACAGGTGAGGTACGCACTGCTCGGGCC
 CTGCTGGACAGAGATGCTCTCAAGCAGAGCCTGGTGGTACCCTGCAGGACCATGGCCAGCCCCCTCTCT
 CCGCCACTGTCACACTACCATAGCTGTGTGACACAACATTCCAGACATCCTGGCTGATCTGGTCAACAT
 TAACGCCCCATTGACCAGGAGGATTGACAGATCACATTGTACCTGGTGGTAGCTGTGGCTGCGGTCTCT
 TGTGTCTTCTTAGCCTTTGTCATTGTGTGCTGATACACAGGCTCCGTCGCTGGCACTCACTCGCCTGC
 TTCAGGCTGCAGGTAATGGGTTGTCATCCTTGCCTGCCTCACATTTTGTGGGTGGATGGTGTACACGC
 TTTCTACAGACCTATTCTCATGAGTCTCACTCACAGCAGACTCTGGGAAGAGTCACTGATCTTCCCA
 CAGCCCAACTACGACAGACACTCATCAGCCAGGAGAGCTGTGGGAAGAGTGATCCTCTCCTGGTATCTC
 AAGACTTGCTTGAATAAAAGGAGACTCCAGTCTGCAGCAAGCCCGCCCAACACTGACTGGCGTTTCTC
 TCAAGCCAGAGACCCGGCACGAGCGGATCCAAAATGGTGTGAAACTGGCACCTGGCCCAACAACAG
 TTTGATACAGAGATGCTGCAAGCCATGATCTTGGCCTCTGCCAGCGAAGCTGCTGATGGGAGCTCTACCC
 TGGGAGGGGGCGCTGGCACCATGGGTCTGAGCGCTCGATACGGACCCAGTTTACCCTGCAGCAGTGGC
 TGACTACCGCCAGAACGTGTACATCCCTGGCAGCAATGCCAGCTGACCAATGCCCTGGCAAACGAGAT
 GGCAAGGCTCCAGCAGGTGTAATGGCAACAAGAAGAAATCGGGCAAGAAAGAGAAGAAG

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >MR211225 representing BC049814
 Red=Cloning site Green=Tags(s)

MAAPYKSDRRGLIWICIFLGSLCDIRAEQIRYSVPEELERGSVVGNAADLGLEPGKLAERGVRIVSRGK
 TQLFALNPRSGSLVTAGRVDREGLCDSPKCTANLEILLEDKVRILAIEVEIIDVNDNAPSFGAQQREIK
 VAESENPGTRFPLPEAFDPDIGVNALQGYQLSSNDHFLSDVQSGPDGIKYPVELLENALDREEEAVHHLV
 LTAFDGGDPVRSGBTATIQTIVLVDNDNAPVFTQPEYHISVKENLPVGTROLLTIKATDPDEGVNGEVTYSF
 RNVREKISQLFQLNSLTGDITVLGELDYEDSGFYDVDVEAHDGGLRARSKVLVTVLVDVNDNAPEVTVTS
 LTSSIQEASSPGTVIALFNVHSDSGENGLVTCSPDNLPFRLEKTYGNYHRLLIHRTLDREEVSDYNYIT
 ITATDQGTPLSTETYISLQVVDINDNPPTFTHASYSAYIPENNPRGASILSITAQDPDSENAQVIYSL
 SEDTIQGAPMSSYVSINSNTGVL YALRSFDYEQFDLKLLVTARDSGTPPLSSNVSLSLVLDQNDNTP
 ILYPTIPTDGSTGVELTPRSADPGYLVTKVAVDKDSGQNAWLSYRLLKASEPGLFSVGLHTGEVRTARA
 LLDRDALKQSLVVTVDHGQPPLSATVTLTIAVSDNIPDILADLVNINAPIDQEDSDITLYLVVAVAAVS
 CVFLAFVIVLLIHRLRRWHSTRLLQAAGNGLSSLPASHFVGDGVHAFVLTQTSHEVSLTADSGKSHLIFP
 QPNYADTLISQESCGKSDPLLVSQDLLEIKGDSLSLQAPPNTDWRFSQAQRPGTSGSQNGDETGTWPNNQ
 FDTFMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSNATLTNAAGKR
 GKAPAGNGNKKKSGKKEKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9062_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

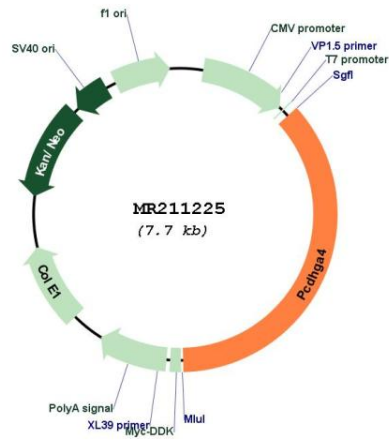


* The last codon before the Stop codon of the ORF

ACCN: BC049814

| | |
|-------------------------------|---|
| ORF Size: | 2790 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: | BC049814.1 |
| RefSeq Size: | 4743 bp |
| RefSeq ORF: | 2792 bp |
| Locus ID: | 93712 |
| Cytogenetics: | 18 B3 |
| MW: | 100.3 kDa |
| Gene Summary: | 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 MR211225