

Product datasheet for **MG211225**

Pcdhga4 (BC049814) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcdhga4 (BC049814) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pcdhga4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG211225 representing BC049814
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCTCCTTACAAATCAGACCGCAGGGGACTAATCTGGATCTGCATTTTCCTTGGATCCCTATGCC
 ACATCCGCGCGGAACAGATCCGGTACTCTGTGCCGGAGGAGCTGGAAAGGGGCTCTGTGGTGGGTAATCT
 CGCCGCGGACCTGGGGCTGGAGCCTGGAAAACCTGGCAGAACCGGAGTCCGCATCGTCTCCAGAGGTAAG
 ACCCAGCTCTTTGCTCTGAACCCGCGAAGCGGCAGTTTGGTGACAGCAGGGAGGGTCGACAGAGAAGGGC
 TCTGTGACAGATCCCAAAGTGTACCGCAAATCTGGAGATTCTCCTAGAGGATAAAGTGAGGATTCTAGC
 CATAGAAGTGGAGATTATCGATGTTAATGATAATGCCCCAGCTTTGGAGCACAGCAGAGAGAAATAAAA
 GTCGCTGAAAGTAAAACTCTGGACAAGATTTCTCTTCTGAAGCCTTTGATCCGGACATAGGGGTGA
 ACGCCTTGCAAGGTTACCAGCTCAGCTCCAATGATCACTTCTCCCTGGATGTCAAAGTGGACCGGATGG
 GATTAAGTATCCAGAGCTAGTGTGGAAAATGCCTTAGACCGCGAGGAAGAAGCCGTTTCATCACCTGGTT
 CTACCCGCTTCGACGGAGGCGACCCGGTTCGCTCTGGTACTGCCACAATTCAAGTAACACTCGTGGACA
 CCAACGACAATGCTCCTGTATTCACTCAGCCAGAGTACCACATTAGTGTGAAAGAGAATTTGCCTGTAGG
 CACCCGGCTGCTTACCATAAAAGCCACTGACCCGGATGAAGGAGTCAACGGAGAAGTGACGTATTCTTTC
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 CTCACAGCTCTATCCAGGAAGCTTCTCCAGCAGCAGTATTGCACCTTCAACGTGCACGACAGCG
 ACTCTGGAGAGAACGGCCTTGCACTTGTCTATTCCAGATAATCTTCCATTCAAGTGGAAAAGACCTA
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 ATAACGCAACCGACAGGAACTCCACCTCTGTCTACAGAGACTTATATCTCATTGCAGGTGGTAGATA
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 ATCCTGTATCCCACCATCCCCTGATGGTTCTACTGGTGTGGAGCTGACACCTCGTTCTGCAGATCCTG
 GATACCTGGTGACCAAGGTGGTGGCCGTAGACAAAGACTCAGGACAGAACGCCTGGCTGTCTACCGCT
 GCTCAAGGCCAGCGAGCCAGGGCTCTTCTCAGTGGGGCTGCACACAGGTGAGGTACGCACTGCTCGGGCC
 CTGCTGGACAGAGATGCTCTCAAGCAGAGCCTGGTGGTACCCTGCAGGACCATGGCCAGCCCCCTCTCT
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 CAGCCCAACTACGCAGACACACTCATCAGCCAGGAGAGCTGTGGGAAGAGTGATCCTCTCCTGGTATCTC
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 TGACTACCGCCAGAACGTGTACATCCCTGGCAGCAATGCCAGCTGACCAATGCCCTGGCAAACGAGAT
 GGCAAGGCTCCAGCAGGTGTAATGGCAACAAGAAGAAATCGGGCAAGAAAGAGAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211225 representing BC049814
Red=Cloning site Green=Tags(s)

MAAPYKSDRRGLIWICIFLGSLCDIRAEQIRYSVPEELERGSVVGNAADLGLEPGKLAERGVRIIVSRGK
 TQLFALNPRSGSLVTAGRVDRGLCDRSPKCTANLEILLEDKVRILAIEVEIIDVNDNAPSFGAQQREIK
 VAESENPGTRFPLPEAFDPDIGVNALQGYQLSSNDHFLSDVQSGPDGIKYPVELVLENALDREEEAVHHLV
 LTAFDGGDPVRSGTATIQTIVLVDNDNAPVFTQPEYHISVKENLPVGTRELLTIKATDPDEGVNGEVTYSF
 RNVREKISQLFQLNSLTGDITVLGELDYEDSGFYDVDVEAHDGGLRARSKVLVTVLDVNDNAPEVTVTS
 LTSSIQEASSPGTVIALFNVHSDSNGENLVTCSPDNLPRLEKTYGNYHRLLIHRTLDRREEVSDNYIT
 ITATDQGTPLSTETYISLQVVDINDNPPTFTHASYSAYIPENNPRGASILSITAQDPDSENAQVIYSL
 SEDTIQGAPMSSYVSINSNTGVLVALRSFDYEQDLKLLVTARDSGTPPLSSNVSLSLVLDQNDNTP
 ILYPTIPTDGTGVELTPRSADPGYLVTKVAVDKDSGQNAWLSYRLLKASEPGLFSVGLHTGEVRTARA
 LLDRDALKQSLVTVQDHGQPLSATVTLTIAVSDNIPDILADLVNINAPIDQEDSDITLYLVVAVAAVS
 CVFLAFVIVLLIHRLRRWHSTRLLQAAGNGLSSLPASHFVGVGVHAFVLTYSHEVSLTADSGKSHLIFP
 QPNYADTLISQESCGKSDPLLVSQDLLEIKGSSSLQQAPPNTDWRFSQAQRPGTSGSQNGDETGTWPNNQ
 FDTFMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSNATLTNAAGKR
 GKAPAGGNGNKKKSGKKEKK

TRTRPLE - GFP Tag - V

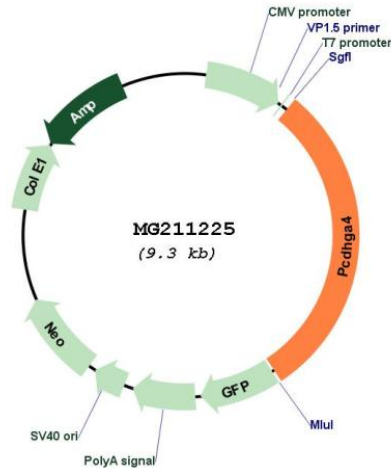
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:

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

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]