

Product datasheet for **MG221529**

Pcdhga4 (NM_033587) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcdhga4 (NM_033587) 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:

>MG221529 representing NM_033587
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCTCCTTACAAATCAGACCGCAGGGGACTAATCTGGATCTGCATTTTCCTTGGATCCCTATGCG
 ACATCCGCGCGGAACAGATCCGGTACTCTGTGCCGGAGGAGCTGGAAAGGGGCTCTGTGGTGGGTAATCT
 CGCCGCGGACCTGGGGCTGGAGCCTGGAAAAGTGGCAGAACCGGAGTCCGCATCGTCTCCAGAGGTAAG
 ACCCAGCTCTTTGCTCTGAACCCGCGAAGCGGCAGTTTGGTGACAGCAGGGAGGGTCGACAGAGAAGGGC
 TCTGTGACAGATCCCAAAGTGTACCGCAAATCTGGAGATTCTCCTAGAGGATAAAGTGAGGATTCTAGC
 CATAGAAGTGGAGATTATCGATGTTAATGATAATGCCCCAGCTTTGGAGCACAGCAGAGAGAAATAAAA
 GTCGCTGAAAGTAAAACTCTGGACAAGATTTCTCTTCTGAAGCCTTTGATCTGGACATAGGGGTGA
 ACGCCTTGCAAGGTTACCAGCTCAGCTCCAATGATCACTTCTCCCTGGATGTCAAAGTGGACCGGATGG
 GATTAAGTATCCAGAGCTAGTGTGGAAAATGCCTTAGACCGCGAGGAAGAAGCCGTTTCATCACCTGGTT
 CTACCCGCTTCGACGGAGGCGACCCGGTTCGCTCTGGTACTGCCACAATTCAAGTAACACTCGTGGACA
 CCAACGACAATGCTCCTGTATTCACTCAGCCAGAGTACCACATTAGTGTGAAAGAGAATTTGCCTGTAGG
 CACCCGGCTGCTTACCATAAAAGCCACTGACCCGGATGAAGGAGTCAACGGAGAAGTGACGTATTCTTTC
 CGGAACGTAAGAGAGAAAATCTCCAGCTCTTCCAGCTGAATTCTCTGACTGGGGACATTACAGTGTGG
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 AGCCAGAAGTAAGGACTGGTGACAGTTCTGGATGTAATGACAATGCCCGGAAGTACAGTCACTCT
 CTCACAGCTCTATCCAGGAAGCTTCTCCAGCAGCAGTATTGCACCTTCAACGTGCACGACAGCG
 ACTCTGGAGAGAACGGCCTTGCACTTGTCTATTCCAGATAATCTTCCATTCAAGTGGAAAAGACCTA
 TGGAAATTATCATCGGTTGTTGATACACAGGACTCTGGACAGGAAGAAGTCTCTGACTATAACATTACA
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 TCAGAGGACACTATCCAGGGGCACCTATGTCCTCCTACGTCTCCATAAACTCCAATACCGGTGTCCTTT
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 GACTCCTCCACTCAGCAGCAACGTGTCCTGAGCTTGTCTGTGCTGGACCAGAACGATAACACCCCTGAG
 ATCCTGTATCCCACCATCCCCTGATGGTTCTACTGGTGTGGAGCTGACACCTCGTTCTGCAGATCCTG
 GATACCTGGTGACCAAGGTGGTGGCCGTAGACAAAGACTCAGGACAGAACGCCTGGCTGTCTACCGCT
 GCTCAAGGCCAGCGAGCCAGGGCTCTTCTCAGTGGGGCTGCACACAGGTGAGGTACGCACTGCTCGGGCC
 CTGCTGGACAGAGATGCTCTCAAGCAGAGCCTGGTGGTGACCGTGCAGGACCATGGCCAGCCCCCTCT
 CCGCCACTGTCACACTACCATAGCTGTGTGACACAACATTCCAGACATCCTGGCTGATCTGGTCAACAT
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 AAGACTTGCTTGAATAAAAGGAGACTCCAGTCTGCAGCAAGCCCGCCCAACACTGACTGGCGTTTCTC
 TCAAGCCAGAGACCCGGCAGCAGCGGATCCAAAATGGTGTGAAACTGGCACCTGGCCCAACAACAG
 TTTGATACAGAGATGCTGCAAGCCATGATCTTGGCCTCTGCCAGCGAAGCTGCTGATGGGAGCTCTACCC
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 TGACTACCGCCAGAACGTGTACATCCCTGGCAGCAATGCCAGCTGACCAATGCCCTGGCAAACGAGAT
 GGCAAGGCTCCAGCAGGTGTAATGGCAACAAGAAGAAATCGGGCAAGAAAGAGAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221529 representing NM_033587
 Red=Cloning site Green=Tags(s)

MAAPYKSDRRGLIWICIFLGSLCDIRAEQIRYSVPEELERGSVVGNAADLGLEPGKLAERGVRIIVSRGK
 TQLFALNPRSGSLVTAGRVDRGLCDRSPKCTANLEILLEDKVRILAIEVEIIDVNDNAPSFGAQQREIK
 VAESENPGTRFPLPEAFDLDIGVNALQGYQLSSNDHFLSDVQSGPDGIKYPVLLENALDREEEAVHHLV
 LTAFDGGDPVRSGTATIQTIVLVDNDNAPVFTQPEYHISVKENLPVGTRELLTIKATDPDEGVNGEVTYSF
 RNVREKISQLFQLNSLTGDITVLGELDYEDSGFYDVDVEAHDGGLRARSKVLVTVLDVNDNAPEVTVTS
 LTSSIQEASSPGTVIALFNVHSDSNGENLVTCSPDNLPRLEKTYGNYHRLLIHRTLDREEVSDNYIT
 ITATDQGTPLSTETYISLQVVDINDNPPTFTHASYSAYIPENNPRGASILSITAQDPDSGENAQVIYSL
 SEDTIQGAPMSSYVSINSNTGVL YALRSFDYEQFDLKLVTARDSGTPPLSSNVSLSLVLDQNDNTP
 ILYPTIPTDGTGVELTPRSADPGYLVTKVAVDKDSGQNAWLSYRLKASEPGLFSVGLHTGEVRTARA
 LLDRDALKQSLVTVQDHGQPLSATVTLTIAVSDNIPDILADLVNINAPIDQEDSDITLYLVVAVAAVS
 CVFLAFVIVLLIHRLRRWHSTRLLQAAGNGLSSLPASHFVGVGVHAFVLTYSHEVSLTADSGKSHLIFP
 QPNYADTLISQESCGKSDPLLVSQDLLEIKGSSSLQQAPPNTDWRFSQAQRPGTSGSQNGDETGTWPNNQ
 FDTFMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSNATLTNAAGKRD
 GKAPAGGNGNKKKSGKKEKK

TRTRPLE - GFP Tag - V

Restriction Sites:

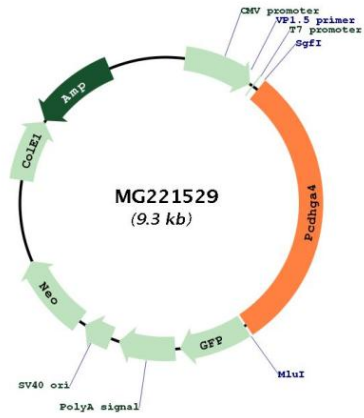
SgfI-MluI

Cloning Scheme:



ACCN:	NM_033587
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:	NM_033587.4
RefSeq Size:	4534 bp
RefSeq ORF:	2793 bp
Locus ID:	93712
UniProt ID:	Q91XY4
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]

Product images:



Circular map for MG221529