

Product datasheet for **MG226662**

Pcdha4 (NM_007766) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcdha4 (NM_007766) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pcdha4
Synonyms:	Cnr1; Crnr1; R75250
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG226662 representing NM_007766
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATTTTCTGGGAAGTGCCAGGAATCCCAGCGCTTGCTTCTTTCTTTCTGCTTCTTGCAATCT
 GGGAGGCAGGGAACAGCCAGATCCACTACTCCATCCCTGAGGAGGCCAAACACGGCACCTTCGTGGGCCG
 CATCGCGCAGGACCTGGGGCTGGAGCTGACGGAGCTGGTCCCCCGCTGTTCCAGAGTGGCGTCCAAGGAC
 CGCGGAGACCTTCTGGAGGTAATCTGCAGAATGGCATTGTTGTTGTGAATTCTCGGATCGACCGGGAGG
 AGCTGTGCGGGCGGAGCGGGAGTGCAGCATCCACCTGGAGGTGATCGTGGACAGGCCGTTGCAGGTTTT
 CCACGTGGAGGTGGAGGTGAGGGACATTAACGACAACCCCTCCAGGTTCCCAACAACACAAAAGAATCTG
 TTCATTGCAGAATCAAGGCCACTTGACACTTGGTTTCCACTAGAGGGCGCTTCAGACGCAGATATCGGAA
 TCAATGCTGTACTGACTACAGACTGAGTCCAAATGATTACTTTTCTTTGGAAAAACCATCAACGACGA
 ACGGGTAAAAGGTCTTGGACTTGTATTACGAAATCTTTAGACCGGGAGGAACTCCAGAGATAATTTTA
 GTGCTTACTGTCACGGACGGAGGAAAGCCAGAGCTGACCGGCAGTGTTCAGTTACTCATCACTGTGCTGG
 ATGCCAATGATAATGCTCCAGTTTTTGACAGATCTCTGTATACCGTGAAATTACCAGAAAACGTTCCAAA
 TGGGACATTGGTAGTCAAAGTCAATGCCTCAGATTTAGACGAAGGGGTAATGGGGATATTATGACTCA
 TTTTCTACAGATATTTACCAAAATGTGAAATACAAATCCACATAGACCCGTGTTAGCGGAGAGATTATTG
 TAAAGGGATACATTGATTTTGAAGAATGCAAAATCCTATGAAATTCATAGAGGGAAATGACAAGGGACA
 ACTTCCACTCTCTGGGCACTGTAAGTCATTGTACAAGTTGAAGACATCAACGATAATGTTCCAGAATTG
 GAATTCAAATCTCTATCACTTCCAATACGAGAGAATTCACAGTGGGCACTGTATCGCACTCATTAGTG
 TGCTGATCGGGACCGGGTGTCAACGGGCAAGTGCCTGCTCCCTGACAAGTCATGTCCTTCAAGT
 GGTGTCCACATTAAGAATTACTATTCCGCTCGTGTGGACAGCGCCCTGGACAGAGAGACAACAGCGGAC
 TATAAGGTGGTGGTACAGCGCGGGATGGGGCTCTCCCTCGCTGTGGCCACGGCTAGCGTGTCTGTTG
 AGGTTGCTGACGTGAACGACAATGCACCTGTGTTGCGCAGCCGAATACACGGTGTTCGTGAAGGAGAA
 CAACCCGCTGGTGCACATCTTACGGTGTGAGCGATGGATGCGGACGCACAGGAGAACGCGTGGTG
 TCCTACTCGTGGTGGAGCGGAGGGTGGGCGAGCGCTTGTGTGAGCTATGTGTCTGTGCACGGGAGA
 GCGGCAAGGTGTTCGCGTGCAGCCTCTGGACATGAGGAGCTGGAGCTGCTGCGGTTCCAGGTGAGCGC
 GCGGGATGCTGGTGTACCTGCCCTGGGAGCAATGTGACTCTGCAGGTGTTTGTGCTGGACGAGAATGAC
 AACCGCCACACTGCTGGAACCTGAGGCAGGAGTCTCTGGTGGAAATCGTGAAGCCGTTGGTGTCCAGAT
 CAGTGGGTGCAGGCCATGTGGTGGCTAAGGTGCGCGCGGTGGATGCAGACTCTGGCTATAATGCATGGCT
 CTCTTATGAGCTGCAATCGTCAGAAGGCAATCCCGTAGCCTTTTCCGCGTAGGTTGTATACGGGCGAG
 ATTAGTACTACGCGCATACTGGATGAAGCAGATTCGCCACGTGAGCGCCTTCTGGTGTGGTGAAGGACC
 ATGGTGACCCAGCAATGATTGTTACCGCCACAGTGTGGTGTCTCTGGTAGAGAAATGGCCCGGTACCAAA
 GGCTCCATCGCGAGTATCCACGAGTGTACACACTCTGAGGCGTCACTGGTGGATGTCAACGTGTACCTG
 ATCATTGCCATCTGTGAGTGTCCAGCCTGCTAGTGTCTACGCTGCTGTACACAGCGCTGCGCTGTT
 CCACTGTCCCACTGAGAGCGTGTGCGGGCCTCCAAAACCGGTAATGGTGTGCTCCAGTGCAGTGGGGAG
 CTGGTCATACTCCCAACAAGGAGGCAAGGGTGTGCTCTGGGGAGTACCCACCTAAGACCGACCTCATG
 GCCTTCAGCCCCAGTTTATCTGATTCAAGGGACAGAGAGGATCAATTGCAGTCTGCAGAGGATTCCTCTG
 GAAAGCCCCGGCAGCCCAACCTGACTGGCGTACTCTGCCTCGCTAAGAGCAGGCATGCACAGCTCTGT
 GCACCTGGAGGAGGCTGGCATTCTACGGGCTGGTCCAGGAGGGCCTGATCAGCAGTGGCCAAACAGTATCC
 AGTGCAACACCAGAACCTGAGGCAGGAGAGGTGTCCCCTCCGGTGGGCGCGGTTGTAACAGCAACAGCT
 GGACCTTTAAATACGGACCAGGCAACCCCAACAGTCCGGTCCCGGTGAGTTGCCAGACAAATTCATTAT
 CCCAGGATCTCCTGCAATCATCTCCATCCGCGAGGAGCCTGCTAACAAACCAATTGACAAAAGCGATTTT
 ATAACCTTCGGCAAAAAGGAGGAGACCAAGAAAAAGAAGAAAAAGAAGGGTAACAAGACCCAGGAGA
 AAAAAGAGAAAGGGAACAGCACGACGACAACAGTGACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226662 representing NM_007766
 Red=Cloning site Green=Tags(s)

MEFSWGSQGQESQRLLLSFLLLAWEAGNSQIHYSIPEEAKHGTFVGRIAQDLGLELTELVPRLFRVASKD
 RGDLLLEVLQNGILFVNSRIDREELCGRSAECSIHLEVIIVDRPLQVFHVEVEVRDINDNPPRFPTTQKNL
 FIAESRPLDTWFPLEGASDADIGINAVLTYRLSPNDYFSLEKPSNDERVKGLGLVLRKSLDREETPEIIL
 VLTVDGGKPEL TGSVQLLITVLDANDNAPVFDRLSYTVKLPENVPNGTLVVKVNASDLDEGVNGDIMYS
 FSTDISPVKYKFHIDPVSQEIIVKGYIDFEECKSYEILIEGIDKQQLPLSGHCKVIVQVEDINDNVPEL
 EFKSLSLPIRENSPVGTVIALISVSDRDTGVNGQVTCSLTSHVPFKLVSTFKNYSLVLDSDALDRETTAD
 YKVVVTARDGGSPSLWATASVSVEVADVNDNAPVFAQPEYTVFKENPPGAHIFTVSAMDADAQENALV
 SYSLVERRVGERLLSSYVSVHAESGKVFALQPLDHEEELLRFQVSARDAGVPALGSNVTLQVFLDEND
 NAPTLLEPEAGVSGGIVSRLVSRVSGAGHVVAKRAVDADSGYNWL SYELQSSEGNRSRSLFRVGLYTGE
 ISTTRILDEADSPRQLLVLDKDHGDPAMIVTATVLVSLVENGPVPKAPSRVSTSVTHSEASLDVNVYL
 IIAICAVSLLVLTLLLYTALRCSTVPSESVCGPPKPMVMVCSAVGWSYSQRRQRVCSGEYPPKTDLM
 AFSPSLSDSRDREDQLQSAEDSSGKPRQPNPDWRYASLRAGMHSSVHLEEAGILRAGPGGPDQQWPTVS
 SATPEPEAGEVSPPVGAGVNSNSWTFKYGPNPKQSGPGLPDKFIIPGSPAIISIRQEPANNQIDKSDFI
 ITFGKKEETKKKKKKKKGNKTQEKKEKGNSTTDNSDQ

TRTRPLE - GFP Tag - V

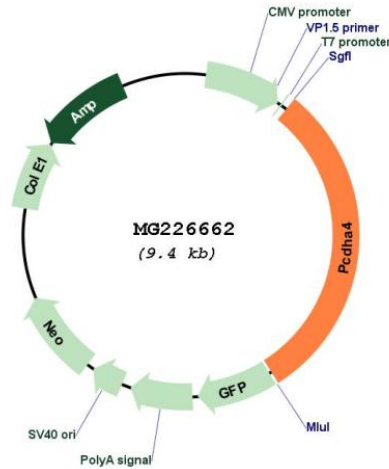
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_007766

ORF Size: 2841 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: [NM_007766.2](#), [NP_031792.1](#)

RefSeq Size: 5322 bp

RefSeq ORF: 2844 bp

Locus ID: 12936

UniProt ID: [O88689](#)

Cytogenetics: 18 B2- B3

Gene Summary:

Calcium-dependent cell-adhesion protein involved in cells self-recognition and non-self discrimination (Probable). Thereby, it is involved in the establishment and maintenance of specific neuronal connections in the brain (PubMed:27161523).[UniProtKB/Swiss-Prot Function]