

Product datasheet for **MG225812**

Pcdh8 (NM_001042726) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcdh8 (NM_001042726) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pcdh8
Synonyms:	1700080P15Rik; P; Papc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225812 representing NM_001042726
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTCTCGAAGCGCTGGGGCAGCCCTTGCCTTTTCCCTTGCAGCTATTTAGTCTCTGCTGGGTGC
 TCTCAGTGGCCCAGAGCAAGACAGTCCGATACAGCACGTTTGAAGAGGATGCCCTGGCACAGTCATCGG
 AACCCCTTGCAGAAGACCTGCACATGAAAGTGTCTGGAGACACAAGCTTCCGCCTGATGAACAAATCAAC
 AGCTCTCTGCTCCGGGTACGCGAGGGGACGGGCAGCTGACCGTCGGGGATGCGGGCCTGGACCGTGAGC
 GTCTGTGTGGCCCGTCCCACAGTGCCTGCTGGCCTTCGATGTTGTGACGTTCTCGCAGGAACAGTTCCG
 CCTGGTGCACGTGGAGGTGGAGGTGAGGGATGTAACGACCACGCGCCCCGCTTTCCCGAGCCAGATC
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 TGGGTGCCAACGGGCTGCAGAGTGTACGCCTAGCCGAGCCTCACAGCCCCCTCCGCGTGGAGCTGCAGAC
 GCGCGCGACGGTGCCAGTGTGCGGACCTGGTGTGCTACAGGAGTTGGACCGGAGAGCCAGGCTCC
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 GTTGTGTTACCTTCGGCGCCCGCACCCCTCCCAGGACCGCCACCTCTCCGGCTCGACCCGCGCTCTG
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 AGAGGCCGAAGTGGCCGCTCTGGGAAGCCGTGTCACCTACGCTCAGTAGACCCGGCTACCGGAGCC
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 GATCCTTGTGCATCCGGCGCCGGCTAATGGCTCCCTAGAAGTAGCGGTCCCTGGACGTTCCACCAAGGAC
 ACAGCTGTGGCGCGCATCCAGGCCCGGGATGCTGACGAAGGAGCCAACGGGGAAGTGGCCTTTGATCTGC
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 GACCTCATCAACCACATGCAGAGTGGACTGTGGGCGTGTACTGCTGAGTGAAGATCCTAGGTCAATCTG
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 AACCTTCTGTAAGAGCACGTCCCTGCCTCGGGATCCTCTGCGCAGGGACAATTACTATCAGGCCAGCTC
 CCCAAGACAGTAGGGTTGCAGAGCGTCTATGAGAAAGTACTGCATAGAGACTATGACAGGACAGTCACTT
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 TCCTGGTAGCAGATACGTGTCCCGAAGAAGGGAATCAATGAAAAATGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225812 representing NM_001042726
 Red=Cloning site Green=Tags(s)

MSPAKRWGSPCLFPLQLFSLCWVLSVAQSKTVRYSTFEEDAPGTVIGTLAEDLHMKVSGDTSFRLMKQFN
 SLLLRVREGDGQLTVGDAGLDRERLCGPSQCVLAFDVVSFSQEQFRLVHVEVEVRDNDHAPRFRAQI
 PVEVSESAPVGTTRIPLEVPVDEVDVANGLSVRLAEPHSPFRVELQTRADGAQCADLVLLQELDRESQAS
 YSLELVAQDGGRRPPTSATAALSVRVL DANDHSPAFPQGAVAEVELAEDAPVGSLLLDLDAADPDEGPNGD
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 SGANGQVRCALYGHEHFRLQPAYAGSYLVVTAASLDRERIAEYNLTLVAEDRGTPLRTRVRYTVRVGDE
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 IYALRSFDYETLRQLDVRVQASDGGSPQLSSNALVQVRVLDQNDHSPILVHPAPANGSLEVAVPGRSTKD
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 TTTATVSFVVTAGGSAVPASSGSPHSRPPGSR LAPSGLQWDTP LIVIIVLAGSCTLLAAIIAIAT
 TCNRRKKEPYGASPGFGKEPAAPPVAVWKGHSFNTISGREAEKFSGKDSGKGDSDFNDSDSISGDALKK
 DLINHMQSGLWACTAECKILGHSRDCWSPSCAGPNVHPPHPPAQMSTFCKSTSLPRDPLRRDNYQAQL
 PKTVGLQSVYKVLHRDYDRTVLLSPPRPGRLPDLQEIGVPLYESPPGSRVYVSPKKGINENV

TRTRPLE - GFP Tag - V

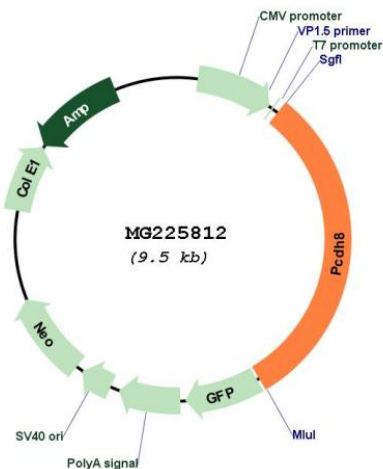
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001042726

ORF Size: 2919 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_001042726.3](#), [NP_001036191.1](#)

RefSeq Size: 3725 bp

RefSeq ORF: 2922 bp

Locus ID: 18530

UniProt ID: [Q7TSK3](#)

Cytogenetics: 14 42.76 cM

Gene Summary: This gene belongs to the protocadherin gene family, a subfamily of the cadherin superfamily. The gene encodes a type I transmembrane protein composed of an extracellular domain including 6 cadherin ectodomains, a single-pass transmembrane domain and a cytoplasmic tail. Unlike classical cadherins, which are generally encoded by 15-17 exons, this gene includes only 3 exons with the first large exon encoding the extracellular and transmembrane region. Although this gene product is capable of homophilic interaction, it appears to affect cell-cell adhesion indirectly by initiating signaling events that regulate classical cadherin-mediated adhesion. Based on studies on this protein and its orthologs, this protocadherin mainly functions in developing embryos and the central nervous system, but can also function as a tumor suppressor. Alternative splicing yielding isoforms with unique cytoplasmic tails has been reported. [provided by RefSeq, Sep 2009]