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Product datasheet for RC239942

PCDH1 (NM_001278613) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH1 (NM_001278613) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDH1
Synonyms:	PC42; PCDH42
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC239942 representing NM_001278613 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGATTCAGGGATCTGAGTTTCTGGAATCGGGGTTCTGTGCTGGGACTGACTGCTCTTGTGGAGAATC GTGTGTCAGTGGGAGAGGCCCTCCTGATTCTGGGGCCTCCCAGGATGGAGCACCTGAGGCACAGCCCAGG CCCTGGGGGGCAACGGCTACTGCTGCCCTCCATGCTGCTAGCACTGCTGCTCCTGCTGGCTCCATCCCCA GGCCACGCCACTCGGGTAGTGTACAAGGTGCCGGAGGAACAGCCACCCAACACCCTCATTGGGAGCCTCG CAGCCGACTATGGTTTTCCAGATGTGGGGCACCTGTACAAGCTAGAGGTGGGTGCCCCGTACCTTCGCGT GGATGGCAAGACAGGTGACATTTTCACCACCGAGACCTCCATCGACCGTGAGGGGCTCCGTGAATGCCAG AACCAGCTCCCTGGTGATCCCTGCATCCTGGAGTTTGAGGTATCTATCACAGACCTCGTGCAGAATGGCA GCCCCCGGCTGCTAGAGGGCCAGATAGAAGTACAAGACATCAATGACAACACACCCAACTTCGCCTCACC AGTCATCACTCTGGCCATCCCTGAGAACACCAACATCGGCTCACTCTTCCCCATCCCGCTGGCTTCAGAC CGTGATGCTGGTCCCAACGGTGTGGCATCCTATGAGCTGCAGGCTGGGCCTGAGGCCCAGGAGCTATTTG GGCTGCAGGTGGCAGAGGACCAGGAGGAGAAGCAACCACAGCTCATTGTGATGGGCAACCTGGACCGTGA GCGCTGGGACTCCTATGACCTCACCATCAAGGTGCAGGATGGCGGCAGCCCCCCACGCGCCAGCAGTGCC CTGCTGCGTGTCACCGTGCTTGACACCAATGACAACGCCCCCAAGTTTGAGCGGCCCTCCTATGAGGCCG AACTATCTGAGAATAGCCCCATAGGCCACTCGGTCATCCAGGTGAAGGCCAATGACTCAGACCAAGGTGC CAATGCAGAAATCGAATACACATTCCACCAGGCGCCCGAAGTTGTGAGGCGTCTTCTTCGACTGGACAGG AACACTGGACTTATCACTGTTCAGGGCCCGGTGGACCGTGAGGACCTAAGCACCCTGCGCTTCTCAGTGC TTGCTAAGGACCGAGGCACCAACCCCAAGAGTGCCCGTGCCCAGGTGGTTGTGACCGTGAAGGACATGAA TGACAATGCCCCCACCATTGAGATCCGGGGCATAGGGCTAGTGACTCATCAAGATGGGATGGCTAACATC TCAGAGGATGTGGCAGAGGAGACAGCTGTGGCCCTGGTGCAGGTGTCTGACCGAGATGAGGGAGAGAATG CAGCTGTCACCTGTGTGGTGGCAGGTGATGTGCCCTTCCAGCTGCGCCAGGCCAGTGAGACAGGCAGTGA CAGCAAGAAGAAGTATTTCCTGCAGACTACCACCCCGCTAGACTACGAGAAGGTCAAAGACTACACCATT GAGATTGTGGCTGTGGACTCTGGCAACCCCCCACTCTCCAGCACTAACTCCCTCAAGGTGCAGGTGGTGG

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Protein Sequence:

>RC239942 representing NM_001278613
Red=Cloning site Green=Tags(s)

MRFRDLSFWNRGSVLGLTALVENRVSVGEALLILGPPRMEHLRHSPGPGGQRLLLPSMLLALLLLLAPSP
GHATRVVYKVPEEQPPNTLIGSLAADYGFPDVGHLYKLEVGAPYLRVDGKTGDIFTTETSIDREGLRECQ
NQLPGDPCILEFEVSITDLVQNGSPRLLEGQIEVQDINDNTPNFASPVITLAIPENTNIGSLFPIPLASD
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LEPEPAAKGLFTISPETGEIQVKTSLDREQRESYELKVVAADRGSPSLQGTATVLVNVLDCNDNDPKFML
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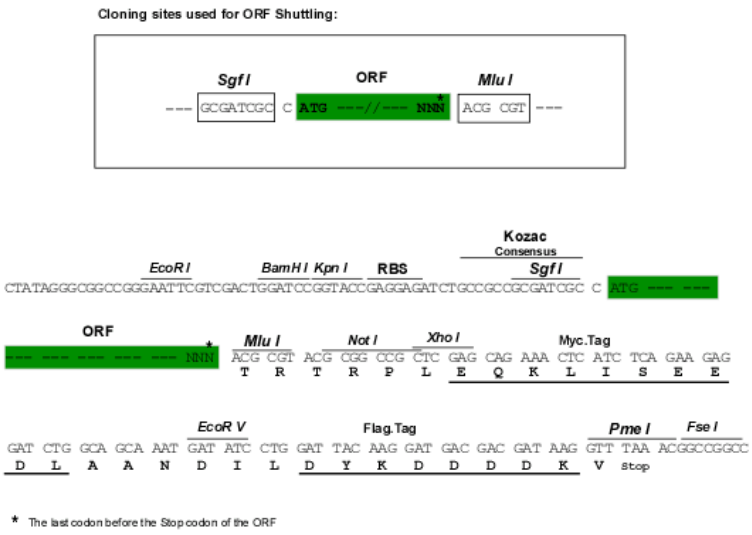
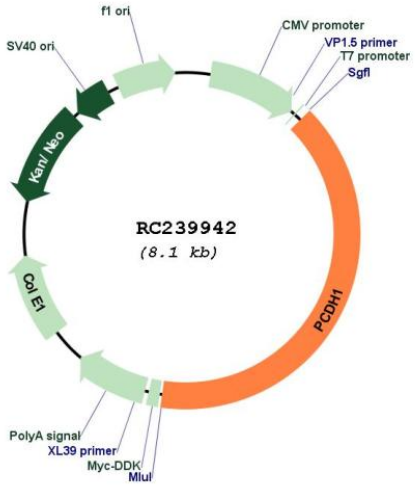
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278613

ORF Size: 3228 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_001278613.2
RefSeq Size:	3768 bp
RefSeq ORF:	3231 bp
Locus ID:	5097
UniProt ID:	Q08174
Cytogenetics:	5q31.3
Protein Families:	Transcription Factors, Transmembrane
MW:	117.2 kDa
Gene Summary:	This gene belongs to the protocadherin subfamily within the cadherin superfamily. The encoded protein is a membrane protein found at cell-cell boundaries. It is involved in neural cell adhesion, suggesting a possible role in neuronal development. The protein includes an extracelllular region, containing 7 cadherin-like domains, a transmembrane region and a C-terminal cytoplasmic region. Cells expressing the protein showed cell aggregation activity. Alternative splicing occurs in this gene. [provided by RefSeq, Jul 2008]