

Product datasheet for **RC223033**

PCDH7 (NM_032457) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH7 (NM_032457) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDH7
Synonyms:	BH-Pcdh; BHPCDH; PPP1R120
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223033 representing NM_032457 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGGATGCGGACCGCGGGATGGGCGCGGGCTGGTGTGGGCTGCTGCCTCCTCTGCCGCTCT
CGCTCAGCCTGGCGGCCCAAGCAGCTCCTCCGGTACCGGTGGCCGAGGAGGGCCCGCCGACGTCCG
CATCGGCAACGTGGCTTACAGCTGGGCATCGTGACCGGATCGGGTGGAGTGACTTTCAGCCTGGAGTCC
GGTCCGAGTACCTGAAGATCGACAACCTACTGGCGAGCTGAGCAGAGCGAGCGGCCATCGACCGCG
AGAAGCTGCCCCAGTGTGATGATCTTCGACGAGAACGAGTGTTCCTGGACTTCGAGGTGTCGGTGAT
CGGGCCCTCGCAGAGCTGGGTGGACCTGTTTGGGGTTCAGGTTCATCGTGTTCGATCAACGACAACAGC
CCCACCTTCCCGTCCCGTGTCTCACGCTCACGGTGGAGGAGAATCGGCCGGTGGGCACACTTTACCTGC
TGCCACAGCCACCGACCGGACTTCGGCCGCAACGGCATCGAGCGCTACGAGCTGCTCCAGGAGCCCGG
AGGCGGCGGCGAGCGGCGGAGACCGCGCGCCGGGGCGGCGGACAGCGCCCCATCCCGGGGGCGGC
GGGAACGGCGGAGCGGCGGCGGCTCGGGAGGCTCCAAGCGGCGGCTGGACGCATCAGAGGGCGGCGGC
GCACCAACCCCGGCGGCGCAGCAGCGTGTTCGAGCTGCAGGTGGCGGACACCCCGGACGGCGAGAAGCA
GCCGACGTGATCGTGAAGGGGGCGCTGGACCGGAGCAGCGGACTCCTACGAGCTGACCTGCGAGTG
CGCGAGCGGCGGACCCGCTCGCTCCTCGAGGCCATCCTACGGGTCTCATCACCAGCTGAACGACA
ACAGCCCCGCTTCGAGAAGAGCGTGTACGAGGCGGACTTGGCTGAGAACAGCGCCCCGGGACCCCAT
CCTGCAACTGCGCGCAGCCGACTTGGACGTGGGGTCAACGGGCAGATCGAATACGTGTTGCGGGCGGCC
ACCGAGTCGGTGAGGCGGCTGCTGCGCCTTACGAGACGTCCGGTGGCTCAGCGTCTGCACCGGATCG
ACCGCGAGGAGGTGAACCAGCTGCGCTTACGGTTCATGGCCCGGACCGCGGCGAGCCCCCAAGACCGA
CAAGGCCACCGTGGTCTTAACATCAAAGACGAGAACGACAACGTGCCGTCCATTGAAATCCGCAAGATT
GGGCGCATCCCCCTCAAGGACGGGGTGGCAACGTGGCCGAGGACGTTCTGGTCGACACCCCATCGCTC
TGGTGCAGGTGTCGACCGAGACCAAGGCGAGAACGGGGTGGTCACTGCACCGTGGTGGCGACGTGCC
CTTCCAGCTCAAGCCAGCCAGCAGCAGCCAGGCGGACGAGAACAAGAAAAGTACTTCTGCACACCTCG



ACCCCTCTGGA CTATGAGGCCACCCGGGAGTTCAACGTGGTCATCGTGGCGGTGGACTCAGGCAGCCCCA
GCCTCTCGAGCAACA ACTCCCTGATTGTCAAGGTGGGAGACACCAACGACAACCCGCCCATGTTCCGGCCA
GTCGGTGGTGGAGGTTTACTTCCCTGAGAACACATCCCAGGGGAGAGGGTGGCCACGGTCTGGCGACA
GACGCAGACAGCGGTAAAGACGCCGAGATCGCCTACTCGCTGGACTCCTCTGTGATGGGGATCTTTGCCA
TCGATCCCATTCTGGGGACATCCTGGTCAATACCGTGTGGACCGGAGCAGACTGACAGGTATGAGTT
TAAAGTTAACGCCAAAGACAAAGGCATCCCCGTGCTGCAGGGCAGCACTACGGTGATTGTGCAGGTGGCT
GATAAAAATGACAATGACCCTAAGTTTATGCAGGACGTCTCACCTTTTATGTGAAAGAAAACCTTGACG
CCAACAGCCCTGTGGGGATGGTCACCGTGATGGATGCTGACAAGGGGCGGAATGCAGAGATGAGCCTGTA
CATAGAGGAGAACAATAACATTTTTTCTATTGAAAATGACACGGGGACATTTACTCCACAATGTCTTTT
GACCGGGAACATCAGACCACATACACTTTCAGAGTCAAGGCTGTGGATGGGGGAGATCCTCCCAGATCTG
CCACAGCTACAGTCTCGCTTTTTGTGATGGATGAAAATGACAATGCTCCACAGTTACCCTTCCAAAAA
CATTTCTACACTTTACTGCCACCTTCGAGTAATGTCAGGACAGTAGTAGCTACAGTGTGGCAACAGAC
AGTGATGATGGCATAATGCAGACCTGAACTACAGCATTGTGGGAGGAAATCCCTTCAAGCTGTTTGAAA
TTGATCCCCTAGTGGTGTGGTTTCTTAGTGGGAAAACCTACCCAAAAGCATTATGGCTTGACAGGTT
GGTGGTCAAGTGAATGACAGTGGGAGCCTTCCAGTCCACCAGACTCTGGTGCAGTGTGTTGCAAT
GAAAGTGTCTAATGCAACTGCGATTGACTCCCAGATAGCTAGAAGTTTGCACATCCCCTCACCCAGG
ATATAGCTGGTGACCCAAGCTATGAAAATTAGCAAAACAGAGACTCAGTATTGTCATTGGCGTGGTTGCTGG
CATTATGACGGTGATTCTAATCATCTTAATTGTAGTGTGGCAAGGTA CTGCAGGTCCAAAAATAAAAA
GGCTATGAAGCCGGCAAAAAAGATCACGAAGACTTTTTTACCCCAACAGCATGACAAAATCTAAAAAGC
CTAAAAAGGACAAGAAAAACAAAAATCTAAGCAGCCTCTCTACAGCAGCATTGTCACTGTGGAGGCTTC
TAAGCCAAATGGACAGAGGTATGATAGTGTCAATGAGAAGCTGTCAGACAGCCCAAGCATGGGGCGATAC
AGGTCCGTTAATGGTGGGCCCGCAGTCTGACCTGGCAAGGCATTACAAATCTAGTTCCCATTGCCTA
CTGTTTCAGCTTTCATCCCCAGTCAACCACTGCAGGAAAAAACACCAGGCCGTACAAGATCTACCACCAGC
CAACACATTTGTGGGAGCAGGAGACAACATTTCAATTGGATCAGATCACTGCTCTGAGTACAGCTGTCAA
ACCAATAACAAGTACAGCAAACAGCCATTTCTGAGAGTACGTTTTCTGTTGTGAGTACGCTCAGGACC
CACATCAGGGGTCACTGCAGAGTTGCTATGACAGCGGGCTGGAGGAGTCAGAAACACCAAGCAGTAAGAG
TTCATCAGGGCCAAGACTGGGTGCGCTTCCACTCCCAGAGGACA ACTATGAAAGGACCACGCCGGATGGC
AGTGTGATTCAAGGCCTCTCCAGATGTAGCCCTGACTGGGAAGTCACTCGTGAGTGTGATGAGTATG
GCCACTCAGACTCCTGCTGGATGCCGTCCGACTTCTCCGGAGAGGAAGAAGAGCCAGCCTAAACTGTC
CACTTTCATGCCTGTTGATGAACGAGGAAGCCAGGAAAAGCTGGCCAATGGGGAGGCCGCCATCATGGGT
GACCGCAACAGAACTCCTGAACAAAAAGTTGACCTCATCTATGAGACCTTCAGTGCAGCTAGTTTCA
GCAAAAATGAGGAAGCCAACCCTGAGGATATCCCTTACAAAAACAGGGGAATATAAGCCATCTCTGT
CAATACTCTCACTAGAAGAGAAGTTTACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223033 representing NM_032457
 Red=Cloning site Green=Tags(s)

MLRMRTAGWARGWCLGCCLLLPLSLSLAAAKQLLRYRLAEEGPADVRIQNVASDLGIVTGSGEVTFSL
 GSEYLKIDNLTGELSTERRIDREKLPQCQMIFDENECFLDFEVSIVIGPSQSWDLFEGQVIVLDINDNT
 PTFPSPVLTLTVEENRPVGTLYLLPTATDRDFGRNGIERYELLQEPGGGGSGGESRRAGAADSAPYGGG
 GNGASGGGSGGSKRRDLASEGGGGTNPGGRSSVFELQVADTPDGEKQPQLIVKGDALDREQRDSYELTLRV
 RDGGDPPRSSQAILRVLITDVNDNSPRFEKSVYEADLAENSAPGTPILQLRAADLDVGVNGQIEYVFGAA
 TESVRRLLRLDETSGLSVLHRIDREEVNLRFVTVMARDRGQPPKTDKATVVLNIKDENDNVPSIEIRKI
 GRIPLKDGVANVAEDVLDVTPIALVQVSDRDQGENGVVCTVVGDVVPFQLKPPASDTEGDQNKKYFLHTS
 TPLDYEATREFNVVIVAVDSGSPSLSSNNSLIVKVGDTNDNPPMGQSVVEVYFPENNIPGERVATVLT
 DADSGKNAEIAVSLDSSVMGIFAIDPDSGDILVNTVLDREQTDREYEFKVNADKGIPLVQGGSTTVIVQVA
 DKNDNDPKFMQDVFTFYVKNLQPNSPVGMVTVMADKGRNAEMSLYIEENNNIFSIENDTGTIYSTMSF
 DREHQTTYFRVKAVDGGDPPRSATATVSLFVMDENDNAPTITLTKNISYTLPPSSNVRTVVATVLTAD
 SDDGINADLNYSIVGGNPFKLEIDPTSGVVS LVGKLTQKHYGLHRLVVQVNDSGQPSQSTTTLVHVFN
 ESVSNATAIDSQIARSLHIPLTQDIAGDPSYEISKQRLSIVIGVAGIMTVILILIVVMARYCRSKNKN
 GYEAGKKDHEDFFTPQQHDKSKKPKDKKKNKSKQPLYSSIVTVEASKPNQRYDSVNEKLSDSPSMGRY
 RSVNNGGSPDLARHYKSSSPLPTVQLHPQSPTAGKKHQAVQDLPPANTFVGAGDNI SIGSDHCSEYSCQ
 TNNKYSKQPFRRVTF SVVQPDPHQGS LQSCYDSGLEESETPSSKSSSGPRLGALPLPEDNYERTTPDG
 SVDSRPLPDVALTGKCTRECDEYGHSDSCWMPVRTSPERKKSQPKLSTFMPVDERGSQEKLANGEAAIMG
 DRNRLLNKKLTSSYETFSAASF SKNEEANPEDIPLTKTGEYKPSPVNTLTRREVYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



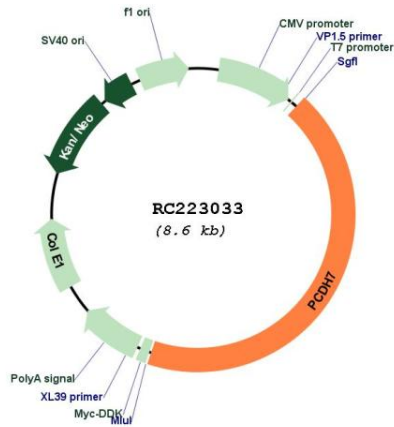
* The last codon before the Stop codon of the ORF

ACCN: NM_032457

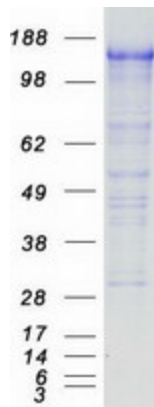
ORF Size: 3741 bp

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_032457.4
RefSeq Size:	4893 bp
RefSeq ORF:	3744 bp
Locus ID:	5099
Cytogenetics:	4p15.1
Domains:	CA
Protein Families:	Druggable Genome, Transmembrane
MW:	132.4 kDa
Gene Summary:	This gene belongs to the protocadherin gene family, a subfamily of the cadherin superfamily. The gene encodes a protein with an extracellular domain containing 7 cadherin repeats. The gene product is an integral membrane protein that is thought to function in cell-cell recognition and adhesion. Alternative splicing yields isoforms with unique cytoplasmic tails. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC223033



Coomassie blue staining of purified PCDH7 protein (Cat# [TP323033]). The protein was produced from HEK293T cells transfected with PCDH7 cDNA clone (Cat# RC223033) using MegaTran 2.0 (Cat# [TT210002]).