

Product datasheet for RC213200

PCDH7 (NM_002589) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH7 (NM_002589) 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:	>RC213200 representing NM_002589 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGGATGCGGACCGCGGGATGGGCGCGGGCTGGTGTGGGCTGCTGCCTCCTCCTGCCGCTCT
CGCTCAGCCTGGCGGCCCAAGCAGCTCCTCCGGTACCGGCTGGCCGAGGAGGGCCCGCCGACGTCCG
CATCGGCAACGTGGCTTACAGCTGGGCATCGTGACCGGATCGGGTGGAGTGACTTTCAGCCTGGAGTCC
GGTCCGAGTACCTGAAGATCGACAACCTACTGGCGAGCTGAGCAGGAGCGAGCGGCATCGACCGCG
AGAAGCTGCCCCAGTGTGATGATCTTCGACGAGAACGAGTGTTCCTGGACTTCGAGGTGTCGGTGAT
CGGGCCCTCGCAGAGCTGGGTGGACCTGTTTGGGGTCAAGTTCATCGTGTGACATCAACGACAACACG
CCCACCTTCCCGTCGCCCCGTGCTCACGCTCACGGTGGAGGAGAATCGGCCGGTGGGCACACTTTACCTGC
TGCCACAGCCACCGACCGGACTTCGGCCGCAACGGCATCGAGCGCTACGAGCTGCTCCAGGAGCCCGG
AGGCGGCGGCGAGCGGCGGAGACCGCGCGCCGGGGCGGCGGACAGCGCCCCATCCCGGGGGCGGC
GGAAACGGCGGAGCGGCGGCGGCTCGGGAGGCTCCAAGCGGCGGCTGGACGCATCAGAGGGCGGCGGC
GCACCAACCCCGGCGGCGCAGCAGCGTGTTCGAGCTGCAGGTGGCGGACACCCCGGACGGCGAGAAGCA
GCCGACGTGATCGTGAAGGGGGCGCTGGACCGGAGCAGCGGACTCCTACGAGCTGACCTGCGAGTG
CGCGACGGCGGCGACCCGCTCGCTCCTCGAGGCCATCCTACGGGTCTCATCCGACGTGAACGACA
ACAGCCCCGCTTCGAGAAGAGCGTGTACGAGGCCGACTTGGCTGAGAACAGCGCCCCGGGACCCCAT
CCTGCAACTGCGCGCAGCCGACTTGGACGTGGGGTCAACGGGCAGATCGAATACGTGTTGCGGGCGGCC
ACCGAGTCGGTGAGGCGGCTGCTGCGCCTTACGAGACGTCCGGTGGCTCAGCGTCTGCACCGGATCG
ACCGCGAGGAGGTGAACAGCTGCGCTTACGGTTCATGGCCCGGACCGCGGCGAGCCCCCAAGACCGA
CAAGGCCACCGTGGTCTTAACATCAAAGACGAGAACGACAACGTGCCGTCCATTGAAATCCGCAAGATT
GGGCGCATCCCCCTAAGGACGGGGTGGCAACGTGGCCGAGGACGTTCTGGTCGACACCCCATCGCTC
TGGTGCAGGTGTCGACCGAGACCAAGGCGAGAACGGGGTGGTCACTGCACCGTGGTGGCGACGTGCC
CTTCCAGCTCAAGCCAGCCAGCAGCAGCCAGGCGGACGAGAACAAGAAAAGTACTTCTGCACACCTCG



ACCCCTCTGGA CTATGAGGCCACCCGGGAGTTCAACGTGGTCATCGTGGCGGTGGACTCAGGCAGCCCCA
 GCCTCTCGAGCAACA ACTCCCTGATTGTCAAGGTGGGAGACACCAACGACAACCCGCCATGTTCCGGCCA
 GTCGGTGGTGGAGGTTTACTTCCCTGAGAACACATCCCGGGCGAGAGGGTGGCCACGGTCTGGCGACA
 GACGCAGACAGCGGTAAAGACGCCGAGATCGCCTACTCGTGGACTCCTCTGTGATGGGGATCTTTGCCA
 TCGATCCCGATTCTGGGGACATCCTGGTCAATACCGTGTGGACCGCGAGCAGACTGACAGGTATGAGTT
 TAAAGTTAACGCCAAAGACAAAGGCATCCCGTGTCTGCAGGCAGCACTACGGTGATTGTGCAGGTGGCT
 GATAAAAATGACAATGACCCTAAGTTTATGCAGGACGTCTCACCTTTTATGTGAAAGAAAACCTTGACGC
 CCAACAGCCCTGTGGGGATGGTCACCGTATGGATGCTGACAAGGGGCGGAATGCAGAGATGAGCCTGTA
 CATAGAGGAGAACAATAACATTTTTTCTATTGAAAATGACACGGGGACATTTACTCCACAATGTCTTTT
 GACCGGGAACATCAGACCACATACACTTTCAGAGTCAAGGCTGTGGATGGGGGAGATCCTCCAGATCTG
 CCACAGCTACAGTCTCGCTTTTGTGATGGATGAAAATGACAATGCTCCACAGTTACCCTTCCAAAAA
 CATTCTACACTTTACTGCCACCTTCGAGTAATGTCAGGACAGTAGTACAGTGTGGCAACAGAC
 AGTGATGATGGCACAATGCAGACCTGAACTACAGCATTGTGGGAGGAAATCCCTCAAGCTGTTTGAAA
 TTGATCCCACTAGTGGTGTGGTTTCTTAGTGGGAAAACCTACCCAAAAGCATTATGGCTGCACAGGTT
 GGTGGTCAAGTGAATGACAGTGGGCAGCCTTCCAGTCCACCAGACTCTGGTGCACGTGTTTGTCAAT
 GAAAGTGTCTAATGCAACTGCGATTGACTCCAGATAGCTAGAAGTTTGCACATCCCACTCACCCAGG
 ATATAGCTGGTGACCCAAGCTATGAAAATTAGCAACAGAGACTCAGTATTGTCATTGGCGTGGTGTCTGG
 CATTATGACGGTATTCTAATCATCTTAATTGTAGTGTGGCAAGGTA CTGCAGGTCCAAAAATAAAAAT
 GGCTATGAAGCCGGCAAAAAAGATCACGAAGACTTTTTTACCCCAACAGCATGACAAAATCTAAAAAGC
 CTAAAAAGGACAAGAAAAACAAAAATCTAAGCAGCCTCTCTACAGCAGCATTGTCACTGTGGAGGCTTC
 TAAGCCAAATGGCAGAGGTATGATAGTGTCAATGAGAAGCTGTGAGACAGCCCAAGCATGGGGCGATAC
 AGGTCCGTTAATGGTGGGCCCGCAGTCTGACCTGGCAAGGCATTACAAATCTAGTTCCCAATTGCCTA
 CTGTTTCAGCTTCACTCCCACTACCAACTGCAGGAAAAAACACCAGGCCGTACAAGATCTACCACCAGC
 CAACACATTTGTGGGAGCAGGAGACAACATTTCAATTGGATCAGATCACTGCTCTGAGTACAGCTGTCAA
 ACCAATAACAAGTACAGCAAACAGATGCGTCTACATCCATACATTACTGTGTTTGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213200 representing NM_002589
 Red=Cloning site Green=Tags(s)

MLRMRTAGWARGWCLGCLLLLPLSLSLAAAKQLLRYRLAEEGPADVRIGNVASDLGIVTGSSEVTFSL
 GSEYLIKIDNL TGELSTERRIDREKLPQCQMI FDENECF LDFEVS VIGPSQSWVDL FEGQVIVLDINDNT
 PTFPSPVLT LVEENRPVGL YLLPTA TDRDFGRNGIER YELLQEPGGGSGGESRRAGAADSAPYPGGG
 GNGASGGGSGSKRRLDASEGGGTNPGRSSVFELQVADTPDGEKQPQLIVK GALDREQRDSYELTLRV
 RDGGDPPRSSQAILRVLITDVNDNSPRFEKSVYEADLAENSAPGTPILQLRAADLDVGVNGQIEYVFGAA
 TESVRRLLRLDETSGLSVLHRIDREEVNQLRFTVMARDRGQPPKTDKATVVLNIKDENDNVPSIEIRKI
 GRIPLKDG VANVAEDVLVDTPIALVQVSDRDQGENGVVCTVVGDPVFPQLKPASDTEGDQNKKKYFLHTS
 TPLDYEATREFNVVIVAVDSGSPSLSSNNSLIVKVGDTNDNPPMFGQSVVEVYFPENNIPGERVATV
 LATDADSGKNAEIA YSLDSSVMGIFAIDPDSGDILVNTVLDREQTDREYEFKVNADKGI PVLQGSTTIVIVQA
 DKNDNDPKFMQDVFTFYVKENLQPNSPVMVTVMADKGRNAEMSLYIEENNNIFSIENDGTIYSTMSF
 DREHQTYYTFRVKA VDDGGPPRSATATVSLFVMDENDNAPT VTLPKNISYTLPPSSNVRTVVATV
 LATDSDGINADLNYSIVGGNPFKLEIDPTSGVVSLVGKLTQKH YGLHRLVVQVNDSGQPSQSTTTLVHVFVN
 ESVSNATAIDSQIARSLHIPLTQDIAGDPSYEISKQRLSIVIGVVAGIMTVIL IILIVVMARYCRSKNKN
 GYEAGKDHEDFFTPQQHDKSKPKKDKKNKSKQPL YSSIVTVEASKPNGQRYDSVNEKLSDSPSMGRY
 RSVNGGGSPDLARHYKSSSPLPTVQLHPQSPTAGKKHQAVQDLPPANTFV GAGDNI SIGSDHCSEYSCQ
 TNNKYSKQMLHPYITVFG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_002589

ORF Size: 3207 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_002589.3](#)

RefSeq Size: 4646 bp

RefSeq ORF: 3210 bp

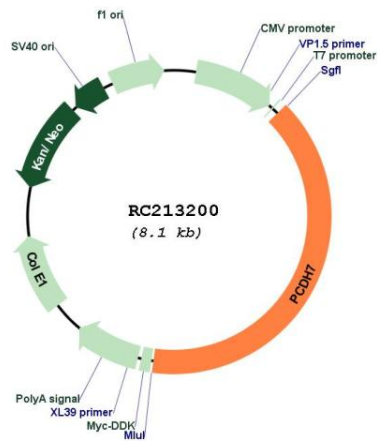
Locus ID: 5099

UniProt ID: [O60245](#)

Cytogenetics: 4p15.1
Protein Families: Druggable Genome, Transmembrane
MW: 116.07 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 RC213200