

## Product datasheet for **RG213200**

### PCDH7 (NM\_002589) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH7 (NM_002589) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDH7
Synonyms:	BH-Pcdh; BHPCDH; PPP1R120
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213200 representing NM_002589 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGAGGATGCGGACCGCGGGATGGGCGCGGGCTGGTGTGGGCTGCTGCCTCCTCTGCCGCTCT  
CGCTCAGCCTGGCGGCCCAAGCAGCTCCTCCGGTACCGGCTGGCCGAGGAGGGCCCGCCGACGTCCG  
CATCGGCAACGTGGCTTACAGCTGGGCATCGTGACCGGATCGGGTGGAGTGACTTTCAGCCTGGAGTCC  
GGTCCGAGTACCTGAAGATCGACAACCTACTGGCGAGCTGAGCAGGAGCGAGCGGCATCGACCGCG  
AGAAGCTGCCCCAGTGTGATGATCTTCGACGAGAACGAGTGCTTCTGGACTTCGAGGTGTCGGTGAT  
CGGGCCCTCGCAGAGCTGGGTGGACCTGTTTGGGGTTCAGGTTCATCGTGTGTTGACATCAACGACAACAG  
CCCACCTTCCCGTCGCCCCGTGCTCACGCTCACGGTGGAGGAGAATCGGCCGGTGGGCACACTTTACCTGC  
TGCCACAGCCACCGACCGGACTTCGGCCGCAACGGCATCGAGCGCTACGAGCTGCTCCAGGAGCCCGG  
AGGCGGCGGCGAGCGGCGGAGACCGCGCGCCGGGGCGGCGGACAGCGCCCCATCCCGGGGGCGGC  
GGGAACGGCGGAGCGGCGGCGGCTCGGGAGGCTCCAAGCGGCGGCTGGACGCATCAGAGGGCGGCGGC  
GCACCAACCCCGGCGGCGCAGCAGCGTGTTCGAGCTGCAGGTGGCGGACACCCCGGACGGCGAGAAGCA  
GCCGACGTGATCGTGAAGGGGGCGCTGGACCGGAGCAGCGGACTCCTACGAGCTGACCTGCGAGTG  
CGCGAGGCGGCGACCCGCTCGCTCCTCGAGGCCATCCTACGGGTCTCATCACCAGCTGAACGACA  
ACAGCCCCGCTTCGAGAAGAGCGTGTACGAGGCCGACTTGGCTGAGAACAGCGCCCCGGGACCCCAT  
CCTGCAACTGCGCGCAGCCGACTTGGACGTGGGGTCAACGGGCAGATCGAATACGTGTTGCGGGCGGCC  
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ACCGGAGGAGGTGAACCAGCTGCGCTTACGGTTCATGGCCCGGACCGCGGCGAGCCCCCAAGACCGA  
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GGGCGCATCCCCCTCAAGGACGGGGTGGCAACGTGGCCGAGGACGTTCTGGTCGACACCCCATCGCTC  
TGGTGCAGGTGTCGACCGAGACCAAGGCGAGAACGGGGTGGTCACTGCACCGTGGTGGCGACGTGCC  
CTTCCAGCTCAAGCCAGCCAGCAGCACCCGAGGGCGACCAGAACAAGAAAAAGTACTTCTGCACACCTCG



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ACCCCTCTGGAATATGAGGCCACCCGGGAGTTCAACGTGGTCATCGTGGCGGTGGACTCAGGCAGCCCCA
GCCTCTCGAGCAACAACCTCCCTGATTGTCAAGGTGGGAGACACCAACGACAACCCGCCATGTTCCGGCCA
GTCGGTGGTGGAGGTTTACTTCCCTGAGAACAACATCCCGGGCGAGAGGGTGGCCACGGTCTGGCGACA
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TAAAGTTAACGCCAAAGACAAAGGCATCCCGTGTGCTGACAGGCAGCACTACGGTGATTGTGCAGGTGGCT
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CCAACAGCCCTGTGGGGATGGTACCGTGTGGATGCTGACAAGGGGCGGAATGCAGAGATGAGCCTGTA
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CATTATGACGGTATTCTAATCATCTTAATTGTAGTGTGGCAAGGACTGCAGGTCCAAAAATAAAAAAT
GGCTATGAAGCCGGCAAAAAAGATCACGAAGACTTTTTTACCCCAACAGCATGACAAAATCTAAAAAGC
CTAAAAAGGACAAGAAAAACAAAAATCTAAGCAGCCTCTCTACAGCAGCATTGTCACTGTGGAGGCTTC
TAAGCCAAATGGCAGAGGTATGATAGTGTCAATGAGAAGCTGTCAGACAGCCCAAGCATGGGGCGATAC
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CTGTTTCAGCTTCACTCCCACTACCAACTGCAGGAAAAAACACCAGGCCGTACAAGATCTACCACCAGC
CAACACATTTGTGGGAGCAGGAGACAACATTTCAATTGGATCAGATCACTGCTCTGAGTACAGCTGTCAA
ACCAATAACAAGTACAGCAACAGATGCGTCTACATCCATACATTACTGTGTTTGGC
    
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG213200 representing NM\_002589  
 Red=Cloning site Green=Tags(s)

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MLRMRTAGWARGWCLGCLLLLPLSLSLAAAKQLLRYRLAEEGPADVRIGNVASDLGIVTGSSEVTFSLSES
GSEYLIKIDNLTEGELSTERRIDREKLPQCQMIFDENECFLDFEVSIVIGPSQSWVDLFEQQVIVLDINDNT
PTFPSPVLTVEENRPVGTLYLLPTATDRDFGRNGIERYELLQEPGGGSGGESRRAGAADSAPYPGGG
GNGASGGGSGGSKRRLDASEGGGTNPGRSSVFELQVADTPDGEKQPQLIVKALDREQRDSYELTLRV
RDGGDPPRSSQAILRVLITDVNDNSPRFEKSVYEADLAENSAPGTPILQLRAADLDVGVNGQIEYVFGAA
TESVRRLLRLDETSGLSVLHRIDREEVNLRFVVMARDRGQPPKTDKATVVLNIKDENDNVPSIEIRKI
GRIPLKDGVANVAEDVLVDTPIALVQVSDRDQGENGVVCTTVVGDVFPQLKPASDTEGDQNKKKYFLHTS
TPLDYEATREFNVVIVAVDSGSPSLSSNNSLIVKVGDTNDNPPMFGQSVVEVYFPENNIPGERVATVLAT
DADSGKNAEIAYSLDSSVMGIFAIDPDSGDILVNTVLDREQTDREYEFKVNADKDGIPVLQGSTTVIVQVA
DKNDNDPKFMQDVFTFYVKENLQPNSPVMVTVMADKGRNAEMSLYIEENNNIFSIENDTGTIYSTMSF
DREHQTTYTRFKAVDGGDPPRSATATVSLFVMDENDNAPTTLVTLVTLVTLVTLVTLVTLVTLVTLVTLV
SDDGINADLNYSIVGGNPFKLFEDPTSGVVS LVGKL TQKH YGLHRL VVQVNDSGQPSQSTTTLVHVFVN
ESVSNATAIDSQIARSLHIPLTQDIAGDPSYEISKQRLSIVIGVVAGIMTVILIIILIVVMARYCRSKNKN
GYEAGKKDHEDFFTPQQHDKSKPKKDKKNKSKQPLYSIVTVEASKPNGQRYDSVNEKLSDSPSMGRY
RSVNGGPGSPDLARHYKSSSPLPTVQLHPQSPTAGKKHQAVQDLPPANTFVGAGDNI SIGSDHCSEYSCQ
TNNKYSKQMLRHPYITVFG
    
```

TRTRPLE – GFP Tag – V

**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](#)

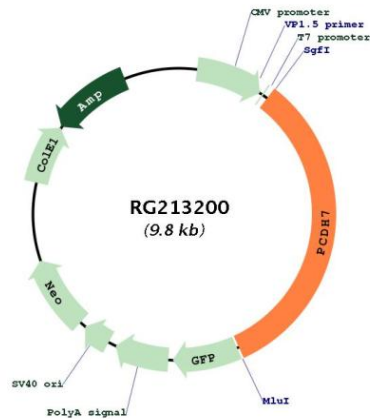
RefSeq Size: 4646 bp

RefSeq ORF: 3210 bp

Locus ID: 5099

UniProt ID: [O60245](#)  
 Cytogenetics: 4p15.1  
 Protein Families: Druggable Genome, Transmembrane  
 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 RG213200