

## Product datasheet for **RG207719**

### PCDHB15 (NM\_018935) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB15 (NM_018935) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDHB15
Synonyms:	PCDH-BETA15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG207719 representing NM\_018935  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAGCCTGCAGGGGAGCGCTTCCCGAACAAAGGCAAGTCCTGATTCTCCTTCTTTACTGGAAGTGA  
CTCTGGCAGGCTGGGAACCCCGTCGCTATTCTGTGATGGAGAAACAGAGAGAGGTTCTTTTGTAGCCAA  
CCTGGCCAATGACCTAGGGCTGGGAGTGGGGGAGCTAGCCGAGCGGGGAGCCCGGTAGTTTCTGAGGAT  
AACGAACAAGGCTTGCAGCTTGTCTGCAGACCGGGCAGTTGATATTAATGAGAAGCTGGACCGGGAGA  
AGCTGTGTGGCCCTACTGAGCCCTGTATAATGCATTTCCAAGTGTACTGAAAAACCTTTGGAAGTATT  
TCGAGCTGAACACTAGTGACAGACATAAACGATCATTCTCCTGAGTTTCTGAAAGAGAAATGACCCTG  
AAAATCCAGAACTAGTCCCTGGGACTGTGTTTCTCTGAAAAAGCTCGGGACTTGGACGTGGGCA  
GCAATAATGTTCAAACTACAATATTTCTCCAATTCTCATTTCATGTTTCCACTCGCACCCGAGGGGA  
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ACGCCAATGACAATGCCCGGAGTTTGTGACGGCGCTCTACGAGGTGCAGGTCCCAGAGAACAGCCCACT  
AGGCTCCCTAGTTGTCAAGGTCTCTGCTAGGGATTTAGACACTGGGACAAATGGAGAGATATCATACTCC  
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TCACTTACCAGCCCTATCCCGAGAATTCTCCAGAGACAGAAGTGGCCCTGTTTAGGATTAGAGACCGAG  
ACTCTGGGAAAAATGAAAAATGATTTGCTCAATTCAGGATGATGTTTCTTTTAAAGTAAACCTTCTGT  
TGAGAATTTCTACAGGCTGGTAACAGAAGGGCGCTGGACAGAGAGACCAGAGCCGAGTACAACATCACC  
ATCACCATCACAGACTTGGGACTCCAAGGCTGAAAACCGAGCAGAGCATAACCGTGCTGGTGTGCGACG  
TCAATGACAACGCCCCCGCTTACCCAAACCTCTACACCCTGTTCTGTCGCGGAGAACAACAGCCCGC  
CCTGCACATCGGCAGTGTCCGCGCAACAGACAGAGACTCGGGCACCAACGCCAGGTACCTACTCGCTG  
CTGCCGCCAGGACCCGACCTGCCCTCACCTCCCTGGTCTCCATTAAACGGACAACGGCCACCTGT  
TCGCTCTCCAGTCTGACTACGAGGCCCTGCAGGCTTTCGAGTTCGCGTGGGCGCCACAGACCGCGG  
CTTCCCGGCGCTGAGCAGCGAGGCGCTGGTGCAGTGTGGTGTGGACGCCAACGACAACCTCGCCCTC  
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ACCTGGTGACCAAGGTGGTGGCGGTGGACGGCGACTCGGGCCAGAACGCCTGGCTGTCTGACAGCTGT  
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AGCGAGCGCGACGTGGCCAAGCACAGGCTAGTGGTGTGGTCAAGGACAAATGGCGAGCCTCCGCGCTCGG  
CCACCGCCACGCTGCAAGTGTCTCTGGTGGACGGCTTCTCTCAGCCCTACCTGCCGCTCCAGAGGGCGC  
CCCGGCCAAGCCAGGCCGACTCGTTACCGTCTACCTGGTGGTGGCATTGGCCCTCGGTGTCTTCGCTC  
TTCCTCTTCTCGGTGTTCTGTTCTGTTGCGAGTGGCGCTGTGCAGGAGGAGCAGGGCGGCCCTCAGTGGGT  
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GAGCTACCAGTACGAGGTGTGTCTGACGGGAGGCTCTGAAAGTAATGATTTCAAGTCTTGAAGCCATA  
TTCCAAATATTGTAAGCCAGGACTCTAGGAGGAAATCAGAATTTCTAGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG207719 representing NM\_018935  
 Red=Cloning site Green=Tags(s)

```
MEPAGERFPEQRQVLILLLLLEVTLAGWEPRRYSVMEETERGSFVANLANDLGLGVGELAERGARVVSSED
NEQGLQLDLQTGQLILNEKLDREKLCGPTEPCIMHFQVLLKKPLEVFRALLVTDINDHSPEFPEREMTL
KIPETSSLGTVFPLKKARDLDVGSNNVQNYNISPNSHFHVSTRTRGDGRKYPELVLDTELDRREEQAE LRL
TLTAVDGGSPPRSGTVQILILVLDANDNAPEFVQALYEVQVPENSPVGSLLVVKVSARDLDTGTNGEISYS
LYYSSQEIDKPFELSSLSGEIRLIKKLD FETMSSYDL D IEASDGGGLSGKCSVSVKVLVDVNDNFPELSIS
SLTSP I PENSPE TEVALFRIRDRDSENGKMICSIQDDVPFKLKPSVENFYRLVTEGALDRETRAEYNIT
ITITDLGTPRLKTEQSITVLVSDVNDNAPFTQTSYTLFVRENNSPALHIGSVRATDRDSGTNAQVTYSL
LPPQDPHPLTSLVSINTDNHGLFALQSLDYEALQAFEFRVGATDRGFPAL SSEALVRVLVLDANDNSPF
VLYPLQNGSAPCTELVPRAAEPGYLVTKVVAVDGDSGQNAWLSYQLLKATEPGLFGVWAHNGEVRTARLL
SERDVAKHRLVVLVKDNGEPPRSATATLQVLLVDGFSQPYLPLPEAAPAQADSLTVYLVVALASVSSL
FLF SVFLFVAVRLCRRSRAASVGRCSVPEGPFPGHLVDVSGTGTL SQSYQYEVCLTGGSESNDFKFLKPI
FPNIVSQDSRRKSEFLE
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_018935

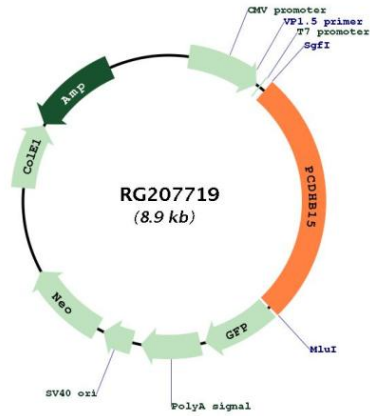
**ORF Size:** 2361 bp

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_018935.2</a></u> , <u><a href="#">NP_061758.1</a></u>
<b>RefSeq Size:</b>	2661 bp
<b>RefSeq ORF:</b>	2364 bp
<b>Locus ID:</b>	56121
<b>UniProt ID:</b>	<u><a href="#">Q9Y5E8</a></u>
<b>Cytogenetics:</b>	5q31.3
<b>Domains:</b>	CA
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>This gene is a member of the protocadherin beta gene cluster, one of three related gene clusters tandemly linked on chromosome five. The gene clusters demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The beta cluster contains 16 genes and 3 pseudogenes, each encoding 6 extracellular cadherin domains and a cytoplasmic tail that deviates from others in the cadherin superfamily. The extracellular domains interact in a homophilic manner to specify differential cell-cell connections. Unlike the alpha and gamma clusters, the transcripts from these genes are made up of only one large exon, not sharing common 3' exons as expected. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins. Their specific functions are unknown but they most likely play a critical role in the establishment and function of specific cell-cell neural connections. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG207719