

Product datasheet for **RG200848**

PCDHB5 (NM_015669) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PCDHB5
Synonyms:	PCDH-BETA5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG200848 representing NM_015669
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGACTGCGCTAGCAAAAACGCCACAGAAAAGGCAAGTTATGTTTCTTGCTATATTGTTGCTTTTGT
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 GGCCCCAGGCCAGGCCGACTCGCTCACTGTCTACCTGGTGGTGGCATTGGCCTCGGTGTCGTGCTCTTC
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 CTACCACTACGAGGTGTGTTTACCGGAGACTCAGGGCGCGCGAGTTCAAGTTCCTGAAGCCGATTATT
 CCTAACCTTTTGGCCAGGGCGCTGGTGAAGAAATAGGAAAACCTGCTGCCTCCGGAATAGCTTTGGAT
 TAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200848 representing NM_015669

Red=Cloning site Green=Tags(s)

METALAKTPQKRQVMFLAILLLLWEAGSEAVRYSIPEETESGYSVANLAKDLGLGVGELATRGARMHYKG
NKELLQLDIKTGNLLLYEKLDRVEMCGATEPCILHFQLLLENPVQFFQTDLQLTDINDHAPEFPEKEMLL
KIPESTQPGTVFPLKIAQDFDIGSNTVQNYTISPNSHFHVATHNRGDGRKYPELVLDKALDREERPELSL
TLTALDGGAPPRSGTTTIRIVLNDNDNAPEFLQSFYEVQVPENSPLNSLVVVVSARDLDAGAYGSVAYA
LFQGDEVTPFVIDEKTAEIRLKRALDPEATPYNVEIVATDGGGLSGKCTVAIEVVDVNDNAPELTMST
LSSPTPENAPETVVAVFSVSDPDSGDNGRMICSIQNDLPFLKPTLKNFYTLVTQRTLDRESQAEYNITI
TVTDMGTPLRKTEHNITVLVSDVNDNAFAFTQTSYTLFVRENNSPALHIGSVSATDRDSTNAQVTYSLL
PPQNPHRLRLASLVSINADNGHLFALRSLDYEALQAFEFVRGATDRGSPALSSEALVRVLVLDANDNSPFV
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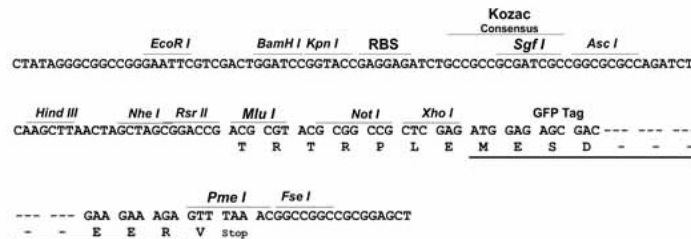
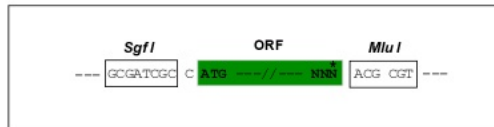
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN:

NM_015669

ORF Size:

2385 bp

OTI Disclaimer:

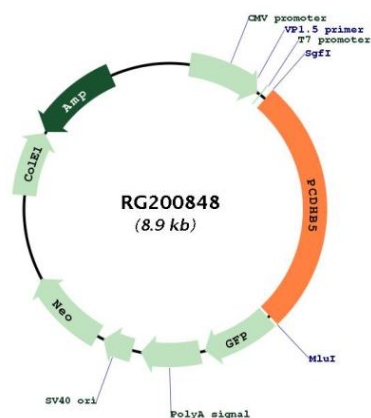
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_015669.2 , NP_056484.1
RefSeq Size:	2925 bp
RefSeq ORF:	2388 bp
Locus ID:	26167
UniProt ID:	Q9Y5E4
Cytogenetics:	5q31.3
Domains:	CA
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	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]

Product images:



Circular map for RG200848