

Product datasheet for **RG211321**

PCDHGB4 (NM_032098) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGB4 (NM_032098) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDHGB4
Synonyms:	CDH20; FIB2; PCDH-GAMMA-B4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG211321 representing NM_032098
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGGGAGCGCGCCGGGAGCTGGGCCGGCTGAGAGGCTGCCAGTGCTCTTTCTCTTCTGCTGTCTT
 TGTTCGCCCAGGCTCTGTGAGCAGATCCGCTACAGGATTCGCGAGGAAATGCCCAAGGGCTCCGTAGT
 GGGGAACCTCGCCACGGACCTGGGGTTCAGCGTCCAGGAGTTACCGACTCGAAAACCTGCGCGTCAGTTCTG
 GAGAAGCCTTACTTCACCGTGAGCGCAGAGAGCGGGGAGTTGCTTGTGAGCAGCAGGCTAGACAGGGAGG
 AGATATGCGGGAAGAAGCCAGCTTGTGCTCTGGAATTTGAGGCTGTTGCTGAAAACTCACTGAACCTTTTA
 TCACGTGAATGTGGAGATCGAGGACATTAATGACCACACGCCAAAATTCACGCAAAATTCCTTTGAGCTG
 CAAATAAGTGAGTCTGCACAGCCTGGCACACGATTTATATTAGGATCTGCCCATGATCGGATATTGGTA
 GCAACACACTGCAGAATTACCACTCAGTCCCAGTGATCATTTCTCACTGATAAAATAAGAGAAATCAGA
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 GGGGACCACGGTGTACAGGTGACTGCCACGGACAGGATGAGGGTGCAATGCCGAGATTACTTTCTCT
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 GCCAGTGACCTGGAGCAGCGGGAGCTGTCATCCTACGTGTCCATAAGCGCGGAGAGCGGGGTGGTGTTCG
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 GCCAGCGCTCAGCGCAACGTGAGCCTGCGCGTGTAGTGACGACCGCAACGACAATGCGCCACGGGTG
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 GGCGACAGGGACGCCGTCCGCCAGCGCCTTCTGGTCCCGTGCGTGACGGTGGACAGCCACCACTCTCGG
 CCACTGCCACGTTGCACCTGGTCTTCGCCGACAGCTTGCAGGAGGTGCTGCCGATATCACTGACCGCCC
 CGACCCCTCTGACCTCCAGGCTGAGCTGCAGTTTTACCTAGTGGTGGCCTTGGCCTTGATCTCAGTGCTC
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 TTATTCCTACAATCTATGTGTTGCACATACAGGAAAGACGGAGTTAATTTCTAAAATGTAGTGAGCAG
 TTGAGTTCAAGACAAGACATACTTTGCGGTGATTCATCTGGGGCCTTATTTCACTTTGTAATCCAGTG
 AATTGACTTCCCATCAGGTGAGTTTCCTT

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211321 representing NM_032098
 Red=Cloning site Green=Tags(s)

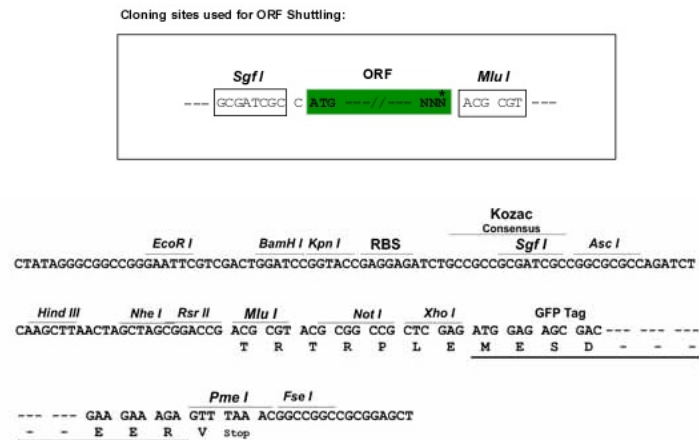
MSGAGELGRAERLPVLFLFLLSLFCPALCEQIRYRIPEEMPKGSSVVGNLATDLGFSVQELPTRKLRVSS
 EKP YFTVSAESGELLVSSRLDREEICGKKPACALEFEAVAENPLNFYHVNVEIEDINDHTPKFTQNSFEL
 QISESAQPGTRFILGSAHDADIGSNTLQNYQLSPSDHFSLINKEKSDGSKYPEMVLKTPLDREKQKSYHL
 TLTALDFGAPPLSSTAQIHVLVTDANDNAPVFSQDVYRVSLSENVYPGTTVLQVTATDQDEGVNAEITFS
 FSEASQITQFDLNSNTGEITVLNLTDFEEVKEYSIVLEARDGGGMIAQCTVEVEVIDENDNAPEVIFQSL
 PNLIMEDAELGTHIALLKVRDKDSRHNGEVTCKLEGDVPFKILTSSRNTYKLVTDVLDREQNPEYNITV
 TATDRGKPPSSSSSITLHIGDVNDNAPVFSQSSYIVHVAENPPGASISQVRASDPDLGPNGQVSYCIM
 ASDLEQRELSSYVSISAESGVVFAQRAFDHEQLRAFELTLQARDQGSPALSANVSLRVLVDDRNDNAPRV
 LYPALGPDGSALFDMVPHAAEPGYLVTKVVAVDADSGHNAWLSYHVLQASEPGLFSLGLRTGEVRTARAL
 GDRDAVRQRLLVAVRDGGQPPLSATATLHLVFADSLQEVLPDITDRPDSDLQAELOFYLVVALALISVL
 FLVAMILAIALLRRSSSPASWSCFQGLCVKSESVPVPPNYSEGTLPSYNLCVAHTGKTEFNFLKCSEQ
 LSSGQDILCGDSSGALFPLCNSSSELTSHQVSFL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



ACCN:	NM_032098
ORF Size:	2409 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_032098.1](#), [NP_115269.1](#)

RefSeq Size: 2412 bp

RefSeq ORF: 2412 bp

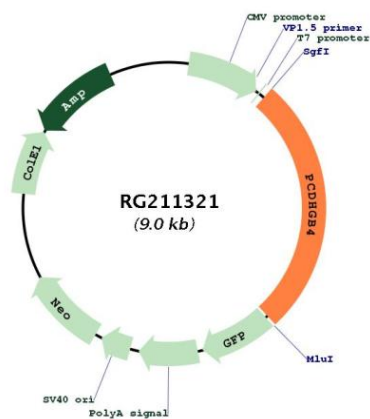
Locus ID: 8641

UniProt ID: [Q9UN71](#)

Cytogenetics: 5q31.3

Gene Summary: This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. This particular family member is expressed in fibroblasts and is thought to play a role in wound healing in response to injury. Alternative splicing has been described for the gamma cluster genes. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG211321