

Product datasheet for **RG219924**

PCDHGB4 (NM_003736) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGB4 (NM_003736) 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:

>RG219924 representing NM_003736
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGAGCGCGCCGGGGAGCTGGGCCGGCTGAGAGGCTGCCAGTGCTCTTTCTCTTCTGCTGTCTT
 TGTTCTGCCCGGCTCTGTGAGCAGATCCGCTACAGGATCCCGAGGAAATGCCAAGGGCTCCGTAGT
 GGGAACTCGCCACGGACCTGGGGTTCAGCGTCCAGGAGTTACCGACTCGAAAACCTGCGCGTCAGTTCG
 GAGAAGCCTTACTTCACCGTGAGCGCAGAGAGCGGGGAGTTGCTTGTGAGCAGCAGGCTAGACAGGGAGG
 AGATATGCCGGAAGAAGCCAGCTTGTGCTCTGGAATTTGAGGCTGTTGCTGAAAACTCACTGAACTTTTA
 TCACGTGAATGTGGAGATCGAGGACATTAATGACCACACGCCAAAATTCACGAAAATTCCTTTGAGCTG
 CAAATAAGTGAGTCTGCACAGCTGGCACACGATTTATATTAGGATCTGCCATGATCGGATATTGGTA
 GCAACACACTGCAGAATACCAACTCAGTCCCAGTGATCATTTCTACTGATAAAATAAGAGAAATCAGA
 TGGCAGTAAATACCTGAGATGGTATTGAAGACACCTTTGGACAGAGAAAAGCAGAAATCCTACCACTTG
 ACTTTGACTGCCTTGGACTTTGGAGCTCCACCCCTAAGCAGCACTGCACAGATACAGTTCTAGTACTG
 ATGCCAATGATAATGCTCCAGTGTTCAGTCAAGACGTATACAGGGTGAGCCTTTCAGAAAACGTGTACCC
 GGGACCACGGTGTACAGGTGACTGCCACGGACCAGGATGAGGGTGTCAATGCCGAGATTACTTTCTCT
 TTCAGTGAAGCTAGCCAGATCACCAATTTGACCTGAACTCTAACACCGGGGAAATTAAGTGTAAATA
 CATTAGATTTTGAAGAAGTCAAAGAATATTCATAGTTTTGGAAGCAAGGGACGGTGGAGGAATGATTGC
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 CCCAACCTAATATGGAGGACCGGAGCTGGGAACACATATTGCTTTGCTCAAAGTCCGTGACAAGGAT
 CCAGACACAATGGAGAAGTGACTTGTAAATTTGGAAGGTGATGTTCCATTTAAAATATAACTTCTCAAG
 AAACACGTATAAATAGTGACAGATGCTGTTCTAGACCGCGAGCAGAATCCAGAGTACAATATAACCGTT
 ACGGCAACAGATCGGGCAAGCCTCCCCTCCTCCAGTTCAGCATCACCTGCACATTGGTGATGTAA
 ATGACAACGCTCCGGTTTTCTCACAGTCTTCTATATAGTCCACGTGGCCGAGAACAACCCGCTGGAGC
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 GCCAGTGACCTGGAGCAGCGGGAGCTGTCATCCTACGTGTCCATAAGCGCGGAGAGCGGGTGGTGTTCG
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 GGCGACAGGGACGCCGTCGCCACGCGCTTCTGGTCCGCGTGCCTGACGGTGGACAGCCACCCTCTCGG
 CCACTGCCACGTTGCACCTGGTCTTCGCCGACAGCTTGCAGGAGGTGCTGCCGATATCACTGACCGCCC
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 TTATTCCTACAATCTATGTGTTGCACATACAGGAAAGACGGAGTTAATTTCTAAAATGATAGTGAGCAG
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 TGGGATTGAGCGCCGCTACGGACCCAGTTCACCCTGCAGCAGTGCCTGACTACCGCCAGAATGTCTA
 CATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGCCCCAGCAGGTGGC
 AATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG219924 representing NM_003736
 Red=Cloning site Green=Tags(s)

MGSGAGELGRAERLPVLFLLSLFCPALCEQIRYRIPEEMPKGSSVGNLATDLGFSVQELPTRKLRVSS
 EKPYYFTVSAESGELLVSSRLDREEICGKKPACALEFEVAENPLNFYHVNVEIEDINDHTPKFTQNSFEL
 QISESAQPGTRFILGSAHDADIGSNTLQNYQLSPSDHFSLINKEKSDGSKYPEMVLKTPLDREKQKSYHL
 TLTALDFGAPPLSSTAQIHVLVTDANDNAPVFSQDVYRVSLSENVYPGTTVLQVTATDQDEGVNAEITFS
 FSEASQITQFDLNSNTGEITVLNLTLDFFEEVKEYSIVLEARDGGGMIAQCTVEVEVIDENDNAPEVIFQSL
 PNLIMEDAELGTHIALLKVRDKDSRHNGEVTCKLEGDVPFKILTSSRNTYKLVTDVLDREQNPEYNITV
 TATDRGKPPSSSSSITLHIGDVNDNAPVFSQSSYIVHVAENPPGASISQVRASDPDLGPNQVSYCIM
 ASDLEQRELSYVSI SAESGVVFAQRAFDEQLRAFELTLQARDQGSPALSANVSLRVLVDRNDNAPRV
 LYPALGPDGSALFDMVPHAAEPGYLVTKVVAVDADSGHNAWLSYHVLQASEPGLFSLGLRTGEVTRARAL
 GDRDAVRQRLLVAVRDGGQPPLSATATLHLVFAADSLQEVLPDITDRPDPSDLQAEQLFYLVVALALISVL
 FLVAMILAIALRLRRSSSPASWSCFQPGLCVKSESVPVPPNYSEGTLPSYNLCVAHTGKTEFNFLKCEQ
 LSSGQDILCGDSSGALFPLCNSELTS HQQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQ
 AMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSNATLTNAAGKRDGKAPAGG
 NGNKKKSGKKEKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

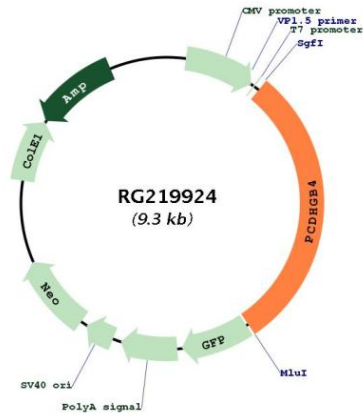
Cloning Scheme:



ACCN: NM_003736

ORF Size:	2769 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:	<ol style="list-style-type: none">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_003736.4
RefSeq Size:	4578 bp
RefSeq ORF:	2772 bp
Locus ID:	8641
UniProt ID:	Q9UN71
Cytogenetics:	5q31.3
Domains:	CA
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG219924