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Product datasheet for RC210864

PCDHGA10 (NM_032090) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHGA10 (NM_032090) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHGA10
Synonyms:	PCDH-GAMMA-A10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC210864 representing NM_032090
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGCTCAAAGGAATCGCTCAAAGGAATCAAAGGATTGCAGCGGGCTGGTCCTGCTCTGCCTTTTCT
TCGGGATTCCATGGGAGGCTGGAGCCCGGCAGATCTCCTACTCAATTCCTGAGGAATTAGAGAAAGGCTC
TTTCGTGGGCAACATCTCCAAGGACTTGGGTCTGGCGCCCCGGGAGCTGGCGGAGCGCGGAGTCCGCATA
GTCTCCAGAGGTAGGACGCAGCTTTTCTCTCTGAACCCGCGCAGCGGCAGCTTGATCACCGCGGGCAGGA
TAGACCGGGAGGAGCTCTGCGCTCAGAGCGCGCGGTGCGTGGTGAGTTTTAATATCCTTGTGGAAGACAG
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CGGATGTGGGCGTGAACTCCCTGCAGAGCTATCAGCTCAGCCCCAATAAGCACTTCTCCCTAAGAGTTCA
GAGCCGTGCCAATGGCGTCAAGTACCCGGAGCTGGTACTGGAGCACTCCCTAGATCGCGAGGAAGAGGCC
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TGACTGTCTTCGATGCAAATGACAACGCGCCGGTCTTCACCTTGCCAGAATACCGAGTGAGTGTTCCTGA
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GCTCCGCAGAGCCCGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCCGGCCAGAACGCCTG
GCTGTCCTACCGTCTGCTCAAGGCCAGCGAGCCGGGACTCTTCGCGGTGGGGGAGCACACGGGCGAGGTG
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GTAAATGCTAAAACACTGATGAGTAGAATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC210864 representing NM_032090
Red=Cloning site Green=Tags(s)

MAAQRNRSKESKDCSGLVLLCLFFGIPWEAGARQISYSIPEELEKGSFVGNISKDLGLAPRELAERGVRI
VSRGRTQLFSLNPRSGSLITAGRIDREELCAQSARCVVSFNILVEDRVKLFGIEIEVTDINDNAPKFQAE
NLDVKINENVAAGMRFPLPEAIDPDVGVNSLQSYQLSPNKHFSLRVQSRANGVKYPELVLEHSLDREEEA
IHHLVLTASDGGDPLRSGTVLVSVTVFDANDNAPVFTLPEYRVSVPENLPVGTQLLTVTATDRDEGANGE
VTYSFRKLPDTQLLKFQLNKYTGEIKISENLDYEETGFYEIEIQAEDGGAYLATAKVLITVEDVNDNSPE
LTITSLFSPVTEDSPLGTVVALLNVHDLDSEQNGQVTCSILAYLPFKLEKSIDSYYRLVIHRALDREQVS
SYNITVTATDGGSPPLSTEAHFMLQVADINDNPPTFSQVSYFTYIPENNARGASIFSVTALDPDSKENAQ
IIYSLAEDTIQGVPLSSYISINSDTGVLYALRSFDYEQFHELQMQVTASDSGDPPLSSNVSLSLFVLDQN
DNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVVAVDRDSGQNAWLSYRLLKASEPGLFAVGEHTGEV
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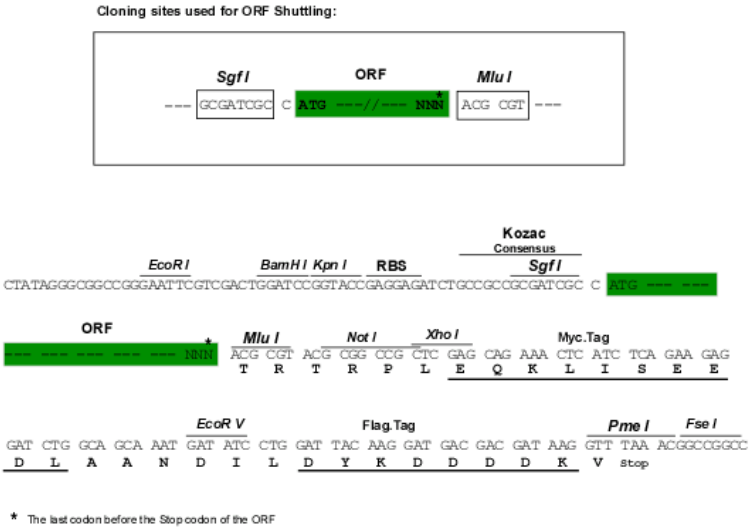
VAAVSCVFLAFVIVLLAHRLRRWHKSRLLQASGGGLTGVSGSHFVGVDGVRAFLQTYSHEVSLTADSRKS
HLIFPQPNYADTLISQESCEKNDPLSLLDDSKFPIEDTPLVPVSFIFIFTFVKKKKIGFYFEVCGMMVES
VNAKTLMSRI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8103_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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ACCN:	NM_032090
ORF Size:	2550 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_032090.1, NP_114479.1
RefSeq Size:	2553 bp
RefSeq ORF:	2553 bp
Locus ID:	56106
UniProt ID:	Q9Y5H3
Cytogenetics:	5q31.3
Domains:	CA
MW:	92.9 kDa
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. Alternative splicing has been described for the gamma cluster genes. [provided by RefSeq, Jul 2008]

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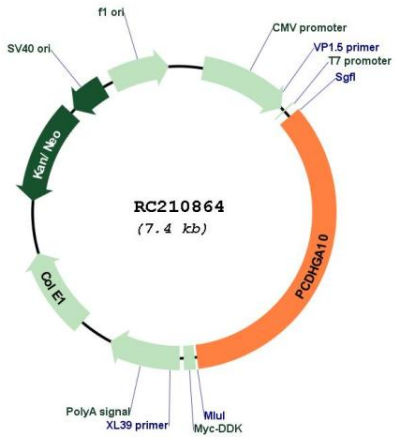
Product images:



Circular map for RC210864

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