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Product datasheet for RC213762

PCDHA10 (NM_018901) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHA10 (NM_018901) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHA10
Synonyms:	CNR8; CNRN8; CNRS8; CRNR8; PCDH-ALPHA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC213762 representing NM_018901
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

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CGCGCAGGACCTGGGGCTGGAGCTGGCGGAGCTGGTGCAGCGCCTGTTCCGGGTGGCGTCCAAAAGACAC
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CCAATGATAACGCCCCTATCTTTGACAGACCGGTTTATGAAGTTAAGATGTATGAAAATCAAGTGAACCA
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TGGATTACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC213762 representing NM_018901
Red=Cloning site Green=Tags(s)

MVSRCSCLGVQCLLLSLLLLAAWEVGSGQLHYSVYEEARHGTFVGRIAQDLGLELAELVQRLFRVASKRH
GDLLEVNLQNGILFVNSRIDREELCGRSVECSIHLEVIVDRPLQVFHVDVEVKDINDNPPRFSVTEQKLS
IPESRLLDSRFPLEGASDADVGENALLTYKLSPNEYFVLDIINKKDKDKFPVLVLRKLLDREENPQLKLL
LTATDGGKPEFTGSVSLLILVLDANDNAPIFDRPVYEVKMYENQVNQTLVIRLNASDSDEGINKEMMYSF
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VTSLSLPVKEDAQVGTVIALISVSDHDSGANGQVTCSLTPHVPFKLVSTYKNYYSLVLDSALDRERVSAY
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YSLVERRLGERSLSSYVSVHAESGKVYALQPLDHEELELLQFQVSARDGGVPPLGSNLTLQVFVLDENDN
APALLASPAGSAGGAVSELVLRSVVAGHVVAKVRAVDADSGYNAWLSYELQSAAVGARIPFRVGLYTGEI
STTRALDETDSPRQRLLVLVKDHGEPSLTATATVLVSLVEGSQAPKASSRASVGVAPEVALVDVNVYLII
AICAVSSLLVLTLLLYTALRCSAAPTEGACGPVKPTLVCSSAVGSWSYSQQRRQRVCSGEGLPKADLMAF
SPSLPPCPMVDVDGEDQSIGGDHSRKPRQPNPDWRYSASLRAGMHSSVHLEEAGILRAGPGGPDQQWPTV
SSATPEPEAGEVSPPVGAGVNSNSWTFKYGPGNPKQSGPGELPDKFIIPGSPAIISIRQEPTNSQIDKSD
FITFGKKEETKKKKKKKKGNKTQEKKEKGNSTTDNSDQ

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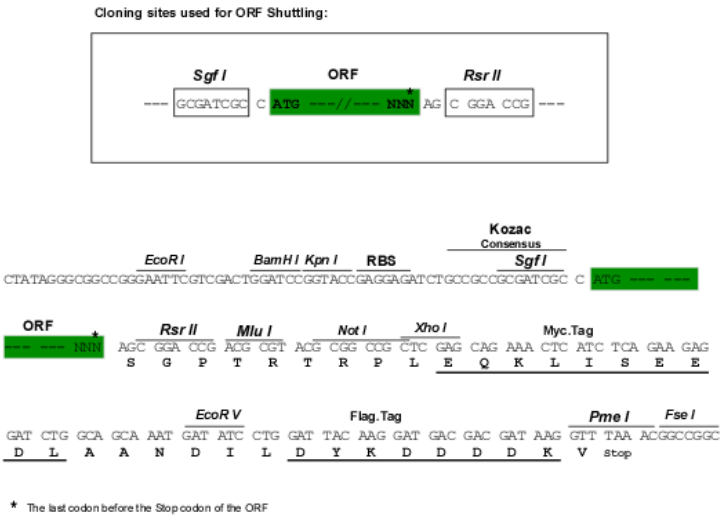
Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_018901

ORF Size: 2844 bp

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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_018901.4
RefSeq Size:	5254 bp
RefSeq ORF:	2847 bp
Locus ID:	56139
UniProt ID:	Q9Y5I2
Cytogenetics:	5q31.3
Protein Families:	Secreted Protein
MW:	99.9 kDa
Gene Summary:	This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha gene cluster is composed of 15 cadherin superfamily genes related to the mouse CNR genes and consists of 13 highly similar and 2 more distantly related coding sequences. The tandem array of 15 N-terminal exons, or variable exons, are followed by downstream C-terminal exons, or constant exons, which are shared by all genes in the cluster. The large, uninterrupted N-terminal exons each encode six cadherin ectodomains while the C-terminal exons encode the cytoplasmic domain. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins that most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been observed and additional variants have been suggested but their full-length nature has yet to be determined. [provided by RefSeq, Jul 2008]

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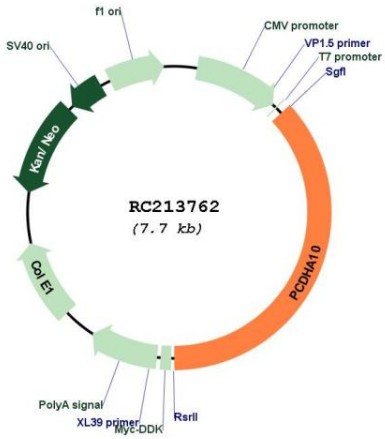
Product images:



Circular map for RC213762

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