

Product datasheet for **RC223080**

PCDHA5 (NM_018908) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHA5 (NM_018908) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDHA5
Synonyms:	CNR6; CNRN6; CNRS6; CRNR6; PCDH-ALPHA5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC223080 representing NM_018908
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTATATCCCGAGAGGAAGTCTGGGATCCCGGCTCTGCTGCTCTGGCTTCTCCTTGCCACTGGA
 AGGCAGGAGCGCCAGCTCCACTACTCGATCCCGGAGGAAGCCAAACACGGAACCTTCGTTGGCCGAT
 CGCGCAGGACCTAGGGCTGGAGCTGGCGGAGCTGGTGCCGCGCCTGTTCCGGGTGGCGTCCAAGGGCCG
 GGGACCTTCTGGAGGTAATCTGCAGAAATGGCATTGTTGTTGTGAATTCTCGGATCGACCGGGAGGAGC
 TGTGCCGCGGAGGGCGGAGTGCAGCATCCACCTGGAGGTGATCGTGGACAGGCCGCTGCAGTTTTCCA
 TGTGGAGGTGGCAGTGAAGGACATCAATGACAATCCGCCAGGTTCTCCAGACAAGAACAAGATTATTC
 ATTTTAGAGTCAAGAATGCCAGATTCGCGGTTTCCGCTAGAGGGCGCGTGGATTGGATATTGGAGCAA
 ATGCACAATTGAGATACAGGTTAAATCCAAACGAATATTTGACTTAGATGTTAAAACAATGAAGAAGA
 AACGAACTTTTAGAGCTGGTTTTGAGGAAATCCTTAGATAGAGAAGAAACACAAGAACACCGTTTTATTA
 GTGATTGCAACTGATGGAGGAAAACCCGAATAACAGGTACAGTTCAGTTGTTGATCAATGTATTGGATG
 CTAATGATAACGCCCCAGAATTTGATAAATCCATTTATAATGTCAGATTGTTGAAAAATGCACCAAGTGG
 GACATTAGTTATTAACCTGAACGCTCAGATGCAGATGAGGGCATCAATAAGGAAATAGTGTATTTCTTT
 AGTAATCTTGTCTTGACGATGTAAGTCCAAATTTATAATTAATTCTAACTGGTGAATAAAAGTTA
 ACGGGAACTGGATTATGAAGACTATAACTCATATGAAATTAATATTGATGCCATGGATAAAAGTACATT
 CCCATTATCAGGACACTGTAAGTAGTAGTAACTCCTGGATGTGAATGATAATACCCAGAGATGGCC
 ATAACCACCTTTTTCTGCCTGTCAAAGAGGACGCTCCACTCAGCACGGTATTGCTCTGATCAGCGTGT
 CTGACCGTGACTCAGGTGCCAACGGGACGCTGCTCCCTAATGCCACGTTCCCTCAAGCTGGT
 GTCACCTTCAAGAATTACTACTCGTTGGTGTCTGGACAGCGCCCTGGACCGGAGAGCGTGTCTGGTCTAT
 GAGCTGGTGGTGACCGCGCGGGACGGGGCTCGCCTTCGCTGTGGGCCACCGCCAGCGTGTCTGTGGAAG
 TGGCCGACGTGAACGACAACGCTCCGGCTTCGCGCAGCCCCAGTATACCGTGTCTGTGAAGGAGAACA
 CCCGCCAGGCTGCCACATCTTACGGTGTCTGCACGGGACGCGGACGCGCAGGAGAACGCCCTGGTGTCC
 TACTCGCTGGTGGAGCGGGTGGGCGAGCGCCGCTGTGAGTTACGTTTCGTTGCACGCGGAGAGCG
 GCAAGGTGACGCGTGCAGCCGCTGGACCAGGGAAGTGGAGCTGCTGCAGTTCAGGTGAGCGCGCG
 CGACGCGGGCGTCCGCCTCTGGCAGCAACGTGACGCTGCAGGTGTTCTGTGCTGGACGAGAACGACAAC
 GCGCCGGCGCTGCTGGTCCCTCGAGTGGTGGCACCGGCGCGCAGTGAAGGAGTGGTCCGAGGTCAG
 TGGGTGCGGGCCACGTGGTGGCGAAGGTGCGCGCAGTGGACCCTGATTCCGGCTACAACGCTTGGCTTTC
 GTATGAGCTGCAGCCAGCGCTGGCAGTGCAGCATCCCGTTCCGCGTGGGGCTGTACACAGGCGAGATC
 AGCACAACACGCTCTCTGGATGAGACCGAAGCACCAGCGCCACCGCCTTCTGGTGTGGTGAAGGACCATG
 GAGAGCCCCCGTGCAGCCACAGCCACAGTGTGGTGTCTGGTGGAAAGTGGCCAGGCGCCGAAGGC
 CTCATCGCGGGCGTGGCGGGCGCTGTGGTCCCGAGGCTGCCCTGGTGGATGTCAACGTGTACCTGATC
 ATCGCCATCTGTGCGGTGCCAGCTGTGGTGTCTCACGCTGTCTGTACACCGCGTGGCGTGTCTCGG
 CGCAGCCACCGAGGCGGTGTGCACAGGGGCAAGCCACTCTGTTGTGCTCCAGCGCGTGGGGAGCTG
 GTCGTAATCGCAGCAGAGGAGACAGAGGTGTGCTCTGGGAAGCTCCACCCAAAACAGACCTCATGGCC
 TTCAGTCCAAGCCTTCTCAGGGTCCCACCTCTACAGACAACCCACGACGCCCAACCTGACTGGCGTT
 ACTCTGCCTCCCTGAGAGCAGGCATGCACAGCTCTGTGCACCTAGAGGAGGCTGGCATTCTACGGCTGG
 TCCAGGAGGGCTGATCAGCAGTGGCCAACAGTATCCAGTGAACACCAGAACCAGAGGCAGGAGAAGTG
 TCCCTCCAGTCCGTGCGGGTGTCAACAGCAACAGCTGGACCTTTAAATACGGACCAGGCAACCCAAAAC
 AATCCGGTCCCGGTGAGTTGCCGACAAATTCATTATCCAGGATCTCCTGCAATCATCTCCATCCGGCA
 GGAGCCTACTAACAGCCAAATTGACAAAAGTGACTTCATAACCTTCGGCAAAAAGGAGGAGACCAAGAAA
 AAGAAGAAAAAGAAGAAGGTAACAAGACCCAGGAGAAAAAGAGAAAGGGAACAGCAGCTGACAACA
 GTGACCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223080 representing NM_018908
 Red=Cloning site Green=Tags(s)

MVYSRRGSLGSRLLLLWLLLAYWKAGSGQLHYSIPEEAKHGTFVGRIAQDLGLELAELVPRLFRVASKGR
 GDLLLEVNLRQNGILFVNSRIDREELCRRRAECSIHLEVI VDRPLQVFHVEVAVKIDINDNPPRFSRQEQLF
 ILESRMPDSRFPLEGASDLDIGANAQLRYRLNPNEYFDLDVKTNEEETNFLELVLRKSLDREETQEHRL
 VIATDGGKPELTGTVQLLINVLDANDNAPEFDKSIYNVRLLENAPSGTLVIKLNASDADEGINKEIVYFF
 SNLVLDDVKSKFIINSNTGEIKVNGELDYEDYNSYEINIDAMDKSTFPLSGHCKVVVKLLDVNDNTPEMA
 ITTLFLPVKEDAPLSTVIALISVSDRDSGANGQVTCSLMPHVPFKLVSTFKNYSLVLDSDALDRESVSVY
 ELVVTARDGGPSLWATASVSVEVADVNDNAPAFAPQPYTVFVKENPPGCHIFTVSARDADAQENALVS
 YSLVERRVGERPLSSYVSVHAESGKVVYALQPLDHEEVELLQFQVSARDAGVPPLGNSVTLQFVLDENDN
 APALLVPRVGGTGGAVSELVPRSVGAGHVVAKRAVDPPDSGYNWL SYELQPAPGSARIPFRVGLYTGEI
 STTRSLDETEAPRHLLVLVKDHGEPPLTATATVLSLVESGQAPKASSRASAGAVGPEALVDNVYLI
 IATCAVSSLLVLTLLLYALRCSAQPTAVCTRGKPTLLCSSAVGSWSYSQRRQRVCSGEAPPKDLMA
 FSPSLPQGPSTNDNPRQPNPDWRYASLRAGMHSSVHLEEAGILRAGPGGPDQWPTVSSATPEPEAGEV
 SPPVGAGVNSNSWTFKYGPGNPKQSGGELPKDFIIPGSPAIISIRQEPNSQIDKSDFITFGKKEETK
 KKKKKKGNKTQEKKEKGNSTTDNSDQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8009_h11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



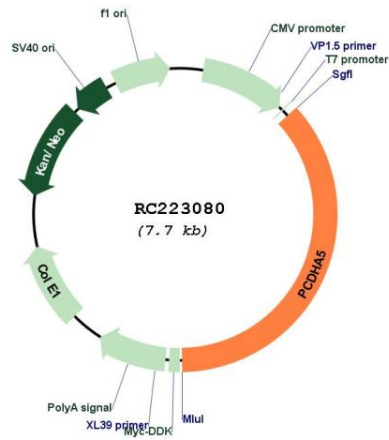
* The last codon before the Stop codon of the ORF

ACCN: NM_018908

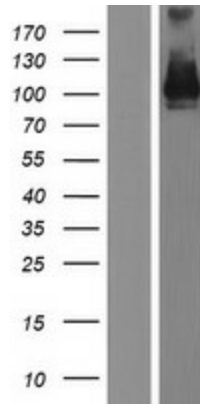
ORF Size: 2808 bp

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_018908.3
RefSeq Size:	5218 bp
RefSeq ORF:	2811 bp
Locus ID:	56143
UniProt ID:	Q9Y5H7
Cytogenetics:	5q31.3
Domains:	CA
Protein Families:	Transmembrane
MW:	98.8 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]

Product images:



Circular map for RC223080



Western blot validation of overexpression lysate (Cat# [LY412920]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223080 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).