

## Product datasheet for **RC212755**

### **PCDH8 (NM\_032949) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PCDH8 (NM_032949) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCDH8
Synonyms:	ARCADLIN; PAPC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC212755 representing NM\_032949  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTCTGTGAGGCGTTGGGGCAGCCCTGCCTTTTCCCTTGCAGCTCTTCAGCCTCTGCTGGGTGC  
 TCTCAGTGGCCAGAGCAAAACAGTCCGATACAGCACCTTCGAGGAGGATGCCCCCGGCACGGTCAATCGG  
 GACCTTGCCGAGGACCTGCATATGAAAGTATCGGGTGACACAAGCTTCCGCCTGATGAAGCAATTAAC  
 AGCTCTCTGCTCCGGGTGCGCGAAGGCGACGGGACGTGACCGTCGGGGACGCCGGCCTGGACCGGAGC  
 GGCTGTGTGGCCAGGCCCGCAGTGCCTGCTGGCCTTCGATGTGGTCAGCTTCTCGCAGGAGCAGTTCCG  
 GCTGGTGCACGTGGAGGTAGAGGTGAGGGACGTCAACGACCACGCCGCCGCTTCCCCAGGGCCAGATC  
 CCGGTAGAGGTGTCCGAGGTGCGGCAGTGGGCACGCGCATCCCCTTGGAGGTGCCGGTGGACGAGGACG  
 TGGGCGCAACGGGCTGCAGACCGTGCCTGGCCGAGCCGCACAGCCCTTTCGCGTGGAGCTGCAGAC  
 GCGAGCGGACGGCGCTCAGTGCAGACCTGGTGTGCTGCAGGAGCTGGACCGGAGAGCCAGGCCGCC  
 TACAGCCTGGAGCTGGTGGCCAGGACGGCGGCCGCCCGCGCTCCGCCACGGCTGCCCTCAGCGTGC  
 CGTCTGGATGCGAATGACCACAGCCCGCCTTCCCGCAGGGCGCCGTGGCCGAAGTGGAGCTGGCGGA  
 AGACGCGCCCGTGGGCTCCCTGCTTCTCGACCTGGACGCAGCCGACCCCGACGAGGGACCTAACGGCGAC  
 GTGGTGTTCGATTTGGCGCCCGCACCCCGCGGAGGGCGCGCCCTCTTTCGGCTTGACCCGCGATCAG  
 GCCGCCTCACCTGGCCGGGCGCGTGGACTACGAGCGTCAGGACACCTACGAGCTGGACGTGCGGGCGCA  
 GGACCGCGGACCCGGGCCCGCGCTGCCACCTGCAAGGTATCGTGCATCCGAGACGTCAATGACAAC  
 GCACCCGACATCGCCATCACCCGCTGGCCGCCAGCGCGCCGGCAACCTCACCTTCGCGCTGCCG  
 CGCCCGCGCTGCACCTGGGGGAGCGGACGTAGCTCGCCGGCGGAGCCGGGACGCCGGTGGTGC  
 CACTTCGCTGGTCCCGGAGGGGGCGCGCGAGAGCCTGGTGGCCCTGGTGCAGCACCTCGGACAGGGAC  
 TCGGGCGCAACGGGCAAGTGCCTGCGCCCTCTATGGGCACGAGCACTTCCGGTGCAGCCGGCCTACG  
 CGGGCAGTACCTGGTGGTACCAGCGCGCTCGCTGGACCGCAACGCATCGCCGAGTACAATTGACGCT  
 GGTGGCCGAGGATCGCGGCGCGCCCGCTGCGCACAGTGCAGCCCTACACGGTGCCTGTGGGCGACGAG  
 AACGACAACGCGCGCTTTCACGCGCCGGTCTATGAGGTGTGGTGCAGGAGAACAACCCGCCAGGGC  
 CCTACCTGGCCACGGTGGCCGCCGCGACCGGGACCTGGCCGCAACGGCCAGGTACCTACCGGCTGCT  
 GGAGGCCGAGGTGGCCCGCGCCGGGGCGCGTGTCCACTTATGTCTCGGTGGACCCAGTACCGGAGCC  
 ATCTACGCGCTGCGCAGTTCGACTATGAGACGCTGCGCCAACCTGCAGCTTCGCATCCAAGTAGCGACG  
 GCGGCTCCCTCAGCTTTCAGCAGCGCCCTAGTGAAGTGCAGCTGCTGGACCAGAACGACCATGCGCC  
 AGTCTGGTGCACCCGGCGCCAGCAATGGCTCCCTAGAAGTGGCGGTGCCTGGGCGCACCCGAAAGGAC  
 ACGGTTGTGGCCCGTGTGCAGGCCCGGGATGCAGACGAGGGAGCAACGGGGAGCTGGCGTTCGAGCTGC  
 AGCAGCAGGAGCCGCGCAAGCCTTCGCCATCGGCCCGCCAGCGGGGAGATACTGCTCACCGGCGACCT  
 CTCGACGAGGCCACCCGGTGCCTGTTTCCAGGGCGCTCCTGGTCAATCCGACGGCGGCCGTCCCCGCTC  
 ACCACCACCGCAACTGTCAGCTTCGTGGTAACAGCAGGGGGCGGGCGTGGCCGGCTGCGCTGCCAGTG  
 CAGGAAGCCCGGAGCGTTCGCCCGCCCTGGCTCTCGGCTCGGGTGTCCGGTGCCTGCAATGGGA  
 CACGCCGCTGATCGTCAATCATCGTGTGGCCGGGAGCTGCAGCTGCTGCTGGCCGCATCATCGCCATC  
 GCCACCCTGCAACCGCGCAAGAAGGAGCCCTACGGTGCCTCCCGGGTTTTGGAAAGGAGCCGGCGC  
 CCCCTGTGGCGGTGTGGAAGGACACTCCTTAACACCATTTCTGGCAGAGAAGCAGAGAAGTTCAGCGG  
 CAAAGACAGCGGTAAAGGGGACAGTGAATTAACGACAGCGATTCCGACATCAGCGGGGACGCTCTGAAA  
 AAGGATCTCATCAACCACATGCAGAGTGGACTGTGGCGTGCACCGCTGAGTGAAGATCTGGGCCACT  
 CTGACCGTCTGGAGCCATCCTGCAGCGGGCCCAACGCACATCCATCGCTCACCCACGAGCCAGAT  
 GTCAACCTTCTGTAAGAGCAGTCACTGCCTCGGGATCCTCTGCGCAGGGACAATTACTACCAGGCCAG  
 CTGCCAAAGACAGTGGGCTGCAGAGCTCATGAGAAAGTACTGCACAGAGACTATGACAGGACAGTCA  
 CTCTGCTCTCCCTCCCGTCCAGGGAGGCTCCAGACCTGCAGGAGATTGGAGTACCCCTACCAGTC  
 CCCTCTGGCAGTACCTGTCCCGAAGAAGGGAGCCAATGAAAATGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212755 representing NM\_032949  
 Red=Cloning site Green=Tags(s)

MSPVRRWGSPCLFPLQLFSLCWVLSVAQSKTVRYSTFEEDAPGTVIGTLAEDLHMKVSGDTSFRLMKQFN  
 SSSLRVREGDGLTVGDAGLDRERLCGQAPQCVLAFDVVFSFQEQFRLVHVEVEVRDNDHAPRFRAQI  
 PVEVSEGAAGVTRIPLEVPVDEVDGANGLQTVRLAEPHSPFRVELQTRADGAQCADLVLLQELDRESQAA  
 YSLELVAQDGGRRPRSATAALSVRVL DANDHSPAFPQGAVAEVELAEDAPVGSLLLDLDAADPDEGPNGD  
 VVFAFGARTPPEARRLFRLDPRSGRLTLAGPVDYERQDTYELDVRAQDRGPGPRAATCKVIVRIRDVNDN  
 APDIAITPLAAPGAPATSPFAAAAAAAAAALGGADASSPAGAGTPEAGATSLVPEGAARESLVALVSTSDRD  
 SGANGQVRICALYGHEHFRLLQPAYAGSYLVVTAASLDRERIAEYNLTLVAEDRGAPPLRTRVRYTVRVGDE  
 NDNAPLFRTRPVYEVSVRENNPPGAYLATVAARDRDLGRNGQVTVYRLLAEVGRAGGAVSTYVSDPATGA  
 IYALRSFDYETLRQLDVRIQASDGGSPQLSSSALVQVRVLDQNDHAPVLVHPAPANGSLEVAVPGRTAKD  
 TVVARVQARDADEGANGELAFELQQQEPREAF AIGRRTGEILLTGDLSQEPGRVFRALLVISDGGRPPL  
 TTTATVSFVVTAGGGRGPAAPASAGSPERSRPPGSRLLVSGSVLQWDTPLIVIIVLAGSCTLLLAIIAI  
 ATTCNRRKKEPYGASPGFGKEPAPPVAVWKGHSFNITISGREAEKFSKGKDSGKSDSFNDSDDISDALK  
 KDLINHMQSGLWACTAECKILGHSDRCWSPSCSGPNAHPSPHPPAQMSTFCKSTSLPRDPLRRDNYQAQ  
 LPKTVGLQSVYEKVLHRDYDRTVTLSPRRPGRLPDLQEI G VPL YQSPPGRYLSPKKGANENV

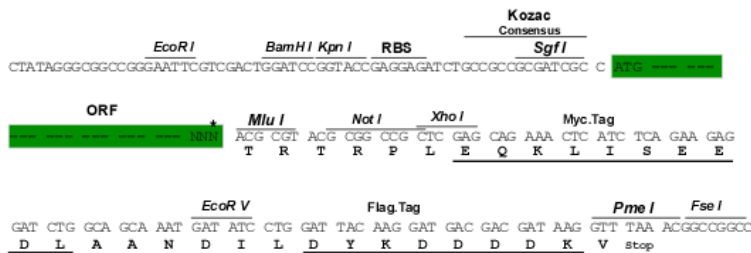
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk8011\\_e08.zip](https://cdn.origene.com/chromatograms/mk8011_e08.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



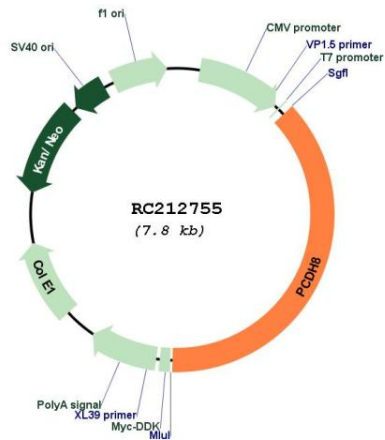
\* The last codon before the Stop codon of the ORF

ACCN: NM\_032949

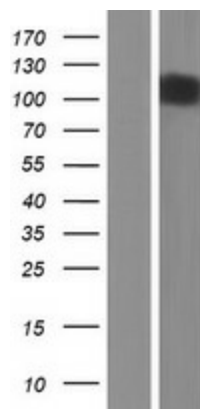
ORF Size: 2919 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_032949.3</a>
<b>RefSeq Size:</b>	3785 bp
<b>RefSeq ORF:</b>	2922 bp
<b>Locus ID:</b>	5100
<b>UniProt ID:</b>	<a href="#">O95206</a>
<b>Cytogenetics:</b>	13q14.3
<b>Domains:</b>	CA
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	100.5 kDa
<b>Gene Summary:</b>	This gene belongs to the protocadherin gene family, a subfamily of the cadherin superfamily. The gene encodes an integral membrane protein that is thought to function in cell adhesion in a CNS-specific manner. Unlike classical cadherins, which are generally encoded by 15-17 exons, this gene includes only 3 exons. Notable is the large first exon encoding the extracellular region, including 6 cadherin domains and a transmembrane region. Alternative splicing yields isoforms with unique cytoplasmic tails. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC212755



Western blot validation of overexpression lysate (Cat# [LY409835]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212755 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).