

## Product datasheet for **RR206036**

### Pcdhac2 (NM\_201422) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pcdhac2 (NM_201422) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcdhac2
Synonyms:	rCNRvc2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR206036 representing NM_201422 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGCAGGCGGGCCAGACCTGGGGCGACAGAGCATCCGCGACCCCTGCGGCCCTGCCCGGCTGC  
TGCTTCTGTCTTCCGGCTGCTGCTGGTCTGCTGCCAGGCCAGCGCCCTCCAGCTACGGTACTCTGT  
GCCGGAGGAGCAGAGCCCTGGCGGCTCGTGGCAACGTGCCAGAGCCCTGGGGCTGGAAGTGGCGGC  
TTGGGACCCGGCTGTCTGCGCATCAACCATCTGGGTGCACCTAGCCCGCGCTACCTGGAAGTGGACTTGA  
CCAACGGAGCGCTCTTCGTCAACGAGCGTATAGATCGCGAGGCTCTGTGCGAGCAGCGGCCCTCGCTGCCT  
GCTCAGCTTGAAGTGTGGCTCACAACCCGGTGGCGGTGAGCGCGATCGAGGTGGAGATACTGGACATC  
AATGACAACCTCTCCGCGCTTCCCGCGGCCGATTATCAGCTTCAGGTAAGCGAATCCGTGGCACCTGGAG  
CGCGGTTTACATAGAGAGCGCACAGGACCCTGACGTTGGCGCCAACCTCAGTTCAGACCTACGAGCTCAG  
CCCCAGTGAGCACTTTGAGCTGGACCTAAACCCTTGCAGGAGAACAGCAAGGTGCTGGAGCTCGTGCTG  
CGGAAGGGCCTAGACCGGAGCAGACTGCCTTGCAACCTTGGTTCTCACTGCGGTGGATGGGGGCATCC  
CAGCTCGCTCAGGCACGGCTCAGATCTCCGTTCTGTCTGGACACGAATGACAATCTCCTGCTTTTGA  
CCAATCCACTTACCGCTCCAACCTGCGGGAGGACGCCCTCCAGGACCTTGGTAGTGAAGTAAATGCC  
TCTGACCCGACGAGGGCTCTAATGGTGAACCTCAGGACTCCTTGAAGTACACATCAGACCCGGGAGA  
GACAGCTTTCAGTATCGACGCCACTACAGGGGAAGTGAAGTAAAGTGGGACTCTGGATTACGAGGAGTC  
TTCCTCTACCAGATCTATGTGCAAGCTACTGACCGGGGACCAGTACCCATGGCGGGTCAATGCAAGGTG  
TTGGTGGACATTATAGATGTGAATGACAATGCTCCAGAGGTGGTGTACAGACTTATACAGCCAGTGC  
CTGAGGATGTTGCCCTCAACACTGTTGTGGCCCTTCTCAGTGTGAATGACCAAGATTCAGGTGCCAACCG  
GAAAGTAAAGCCTGGTCTGGAGGCTTCAATGCCCTTCAAGCTGAATGGCTTTGAAACTCCTATACCCCTG  
GTGGTGAAGTGGCCACTGGATCGGGAGCGGTAGCTGCCTACAACATCACAGTGACAGCCACTGATGGGG  
GAATACCACCACTCACATCTCAAAGGACTGACAGATTGAGATCTCTGACATAAATGACAATCCACCAAG  
CTTCTGAAGGACTCCTATTCCATCTACATCCAGGAGAACAAATTTGCCGGGTGTGTTGCTTTCAGCTGTG  
CAAGCCACAGACCAGATCAAAGGAGAATGCGGAGGTGACCTACTCACTCCTAGACAGGGAGATTCAAG



[View online >](#)

GGCTGCCAGTCACCTCCTATGTCTCCATTAACAGTGCCAGTGGCAGCCTTTATGCTGTCAACTCCTTTGA  
 CTATGAGAAATTCGAGAGTTTTTTGTGACTGTGGAGGCTCAGGATAAGGGGAGGCCACCATTAAGCAGC  
 ACTGTGACCGCCAACGTGTATGTGGTGGATGTGAACGACCACGCCCTCATATTCTATACCTACCTCAA  
 CTAACACATCAGCAGCCATTGAGTTGGTGCCACGGTCTGCCCCCTGCTGGCTACCTGGTCACCAAAGTCAT  
 AGCCATGGATTGAGACTCTGGGCAGAATGCTTGGCTCTTTACCATTTAGTCCCAACTTCTGACTCGGAC  
 CTCTTTAAAGTAGAACTCACACAGGAGAAATAGGATCACCAGGAAGATAGGAGACGAGAGTGGTACCA  
 CTTTCAACCTGACTGTGGTGGTCCGTGACAATGGTGAGCCACCTCTATCAGCTACCGTGGCCATTACAGT  
 AGCCGTGGTGGACAGGGTTTCGAAAATGCTCCCTGACACTCAGAGACATATAAAGAGTCCCTCGGACATAC  
 TCCGAGATCACACTTTATCTGATAATAGCACTAAGCACAGTGTCTTTTATATTTCTCTTGACAATATTG  
 TTCTGAGCATCATCAAGTGTACCCTACACTGCTTATGGCACGGCATGCTGTGGAGGCTTCTGTGGAGT  
 GAGGGAGCGGAGCCCTGCAGACCTGTACAAGCAGGCCAATAACAATATCGATGCCAGGATACCACATGGC  
 CTAAGTACAGCCTCACTTCATTGAGGTTGAGGCAATGGCTCCCTACCAAGACCTACTGCTACAAGG  
 CCTGCCTGACAGCAGGCTCCGGGAGTGACACTTTCATGTTTTACAACACAGGGGCCAGACAGGGCCAGG  
 GCCTGGGGAGCCCAAGCCTCAGTGACTGACAACAGGCAACTCACGGGCCAAAGTAGGCACAGTGTGGG  
 AACCTGATTATCCTAAAAATGATGCTGTCTCTCAAAATGAGCCCGACAGCCCAACCTGACTGGCGCT  
 ACTCTGCCTCGCTAAGAGCCGGCATGCACAGCTCTGTGCACCTGGAGGAGCTGGCATTCTACGGGCTGG  
 TCCAGGAGGGCCTGATCAACAGTGGCCAACAGTATCCAGTGCAACACCAGAACCAGAGGCAGGAGAGGTG  
 TCCCTCCAGTGGGCGCTGGTGTCAACAGCAACAGCTGGACCTTTAAATACGGACCCGGCAACCCAAAAC  
 AGCCCGGTCCCGGTGAGTTGCCAGACAAATTCATTATCCAGGATCTCCTGCAATCATCTCCATCCGGCA  
 GGAGTCTGCTAACACCAAAATTGACAAAAGCGATTTTATAACCTTCGGCAAAAAGGAGGAGACCAAGAAA  
 AAGAAGAAAAGAAGAAGGTAACAAGACCCAGGAGAAAAAGAGAAAGGGAACAGCACGACGGACAACA  
 GTGACCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGAT AAGTTTAA

**Protein Sequence:**

>RR206036 representing NM\_201422  
 Red=Cloning site Green=Tags(s)

MEQAGARPGATEHRPLRPLRLLLLLFRLLLLVLLPGPAASQLRYSVPPEEQSPGALVGNVARALGLELRR  
 LGPGCLRINHLGAPSPRYLELDLTNGALFVNERIDREALCEQRPRCLLSLEVLAHNPVAVSAIEVEILDI  
 NDNSPRFRPDYQLQVSESVAPGARFHIESAQDPDVGANSVQTYELSPSEHFELDLKPLQENSKVLELVL  
 RKGLDREQTALHHLVLTAVDGGIPARSGTAQISVRVLDTNDNSPAFDQSTYRVQLREDAPPGLVVKLNA  
 SDPDEGSNGELRYSLSYTSDRERQLFSIDATTGEVRVSGTLDYEESSSYQIYVQATDRGPVPMAGHCKV  
 LVDIIDVNDNAPEVVLTDLYSPVPEDVALNTVALLSVNDQDSGANRQVSLGLEASLPPRLNGFGNSYTL  
 VVSGPLDRERVAAYNITVTATDGGIPPLTSQRTLQIEISDINDNPPSFLKDSYSIYIQENNLPGVLLCTV  
 QATDPDQKENAETYSLLDREIQGLPVTSYVSINSASGLYAVNSFDYEKREFVTVVEAQDKGRPPLSS  
 TVTANVYVVDVNDHAPHILYPTSTNTSAAIELVPRSAPAGYLVTKVIAMSDSGQNAWLFYHLVPTSDSD  
 LFKVELHTGEIRITRKIGDESGTFFNLTVVVRDNGEPLSATVAITVAVVDRVSKMLPDTQRHIKSPRTY  
 SEITLYLIIALSTVSFIFLLTIIIVLSIIKCYRYTAYGTACCGGFCGVRERSPADLYKQANNIDARIPHG  
 LKVQPHFIEVRGNGSLTKTYCYKACLTAGSGSDTFMFYNTGAQTGPGGGAQASVTDNRQLTGQSRHSAG  
 NLIILKNDAVSQNEPRQPNPDWRYASLRAGMHSSVHLEEAGILRAGPGGPDQQWPTVSSATPEPEAGEV  
 SPPVGAGVNSNSWTFKYGPGNPKQPGGELPKFIIIPGSPAIIISIRQESANNQIDKSDFITFGKKEETKK  
 KKKKKKGNKTQEKKEKGNSTTDNSDQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

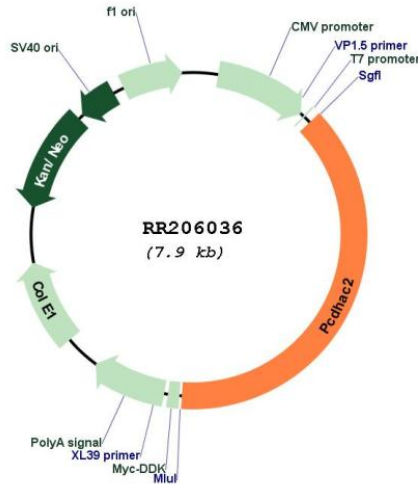
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_201422

ORF Size: 3018 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](#)

<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>	<u><a href="#">NM_201422.1</a></u> , <u><a href="#">NP_958825.1</a></u>
<b>RefSeq Size:</b>	5418 bp
<b>RefSeq ORF:</b>	3021 bp
<b>Locus ID:</b>	393092
<b>Cytogenetics:</b>	18p11
<b>MW:</b>	109.4 kDa
<b>Gene Summary:</b>	member of a family of synaptic cadherins and Reelin receptors, integral plasma membrane proteins that may play a critical role in maintaining specific cell-cell interactions in the brain [RGD, Feb 2006]