

## Product datasheet for MR221191

### Pcdhac2 (NM\_001003672) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pcdhac2 (NM_001003672) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcdhac2
Synonyms:	CNRc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221191 representing NM_001003672 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCAGGCGGGAGCCAGACCTGGGGCGACAGAGCATCCGCGACCCCTGCGGCCCTTGCCTGGCTGC  
TGCTTCTGTCTTTCCGACTGCTGCTGGTCTGCTGCCAGGCCAGCGGCCTCCAGCTACGATACTCCGT  
GCCGGAGGAGCAGAGCCCGGCGCTCGTGGCAACGTGGCCAGAGCCTTGGGGCTAGAAGTGCAGGCGC  
TTGGGACCTGGCTGTCTGCGCATCAACATTTGGGTGCACCCAGCCGCGCTACCTGGAAGTGGACTTGA  
CCAATGGAGCGCTCTTCGTCAACGAGCGGATAGATCGCGAGGCGCTGTGCGAGCAGCGGCCTCGTGCCT  
GCTCAGCTTGAAGTGTGGCTACAACCTGTGGCAGTGAGCGGATCGAGGTGAAATACTGGACATC  
AATGACAACCTCTCCGCGCTTCCCGCGGCCGATTATCAGCTTCAGGTAAGCGAATCCGTGGCACCTGGAG  
CGCGGTTTACATAGAGAGCGCACAGGACCCTGACGTCGGTGCCAACTCAGTGCAGACCTACGAGCTCAG  
CCCCAGCGAGCACTTTGAGCTGGATCTTAACCCCTTGCAAGGATAGCAAGGTGCTGGAGCTCGTGCTG  
CGGAAGGGCCTAGACCGGGAGCAGACTGCCTTGCACTACTTGGTTCTCACTGCGGTGGATGGGGGATCC  
CAGCTCGCTCAGGCACAGCTCAGATCGCGTTCGTGTCTGGACAGCAATGACAATCTCCTGCCTTTGA  
CCAATCCACTTACCGGTCCAGCTGCGAGAGGATGCTCCTCCGGGCACATTGGTAGTGAAGTTGAATGCC  
TCGGACCCGGATGAGGGTTCTAACGGTGAAGTCAAGTACTCCTTGAGCAGCTACACATCAGACCGGGAGA  
GACAGCTCTTCAGCATCGATGTGACTACAGGGGAAGTGAGAGTAAGTGGGACTCTGGATTATGAGGAGTC  
TTCTCCTACCAGATCTATGTGCAAGCTACTGACCGGGGACCGGTACCCATGGCGGGGACTGCAAGGTG  
TTGGTGGACATTATAGATGTGAATGACAACGCTCCAGAGGTGGTCTCACAGACTTATACAGCCAGTGC  
CTGAGGATGTTGCCCTCAACTGTTGTGGCCCTTCTCAGTGTGAATGACCAAGATTGAGGCTCCAACAG  
GAAAGTAAAGCTGGGTCTGGAGGCTTCACTGCCCTTCCGGCTGAATGGCTTTGGAACTCCTATACCCTG  
GTGGTGAAGTGGCCATTGGATCGGGAGCGGGTGTGCTTACCAACATCACAGTGCAGCTACTGATGGGG  
GAGTACCACCACTCACATCTCAAAGGACATTGCAGGTTGAGATCTCTGACATAAATGACAATCCACCAAG  
CTTCTGAAGGACTCCTATTCCATCTACATCGAGGAAAACAATTTACCAGGTGTGTTGCTCTGCACTGTG



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CAAGCCACAGACCCAGATCAAAAGGAGAATGCAGAGGTGACCTACTCACTCCTAGACAGGGAGATTCAAG  
 GGCTGCCAGTCACCTCCTATGTCTCCATTAACAGTGCCAGCGGCAGCCTTTATGTGTCTAACTCCTTTGA  
 CTATGAGAAATTCGAGAGTTTTTTGTGACTGTGGAGGCCAGGATAAGGGGAGGCCACCACTAAGCAGC  
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 CTAATACATCAGCAGCCATTGAAATGGTGCCACGGACTGCCCTGCTGGTACCTGGTCACCAAAGTCAT  
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 CTTTTAAAGTAGAACTTCACACAGGAGAAATTAGGATTACCAGGAAGATAGGAGATGAGAGTGGCACCA  
 CTTTCAACCTGACCGTGGTGGTCCGTGACAATGGAGAGCCACTCTATCAGCTACCGTGGCCATCACAGT  
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 GAGGGAGCGTGCCTGCAGAGCTGTACAAGCAGGCCAATAACAATATCGATGCCAGGATACCACATGGC  
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 AACCTGATTATCCTAAAAATGATGCTGGCTCTCAAAATGAGCCCGGCAGCCCAACCTGACTGGCGCT  
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 TCCCTCCGGTGGGCGCCGGTGTCAACAGCAACAGCTGGACCTTTAAATACGGACCAGGCAACCCAAAC  
 AGTCCGGTCCCGGTGAGTTGCCAGACAAATTCATTATCCAGGATCTCCTGCAATCATCTCCATCCGGCA  
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 AAGAAGAAAAGAAGAAGGTAACAAGACCCAGGAGAAAAAGAGAAAAGGGAACAGCACGACGGACAACA  
 GTGACCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221191 representing NM\_001003672  
 Red=Cloning site Green=Tags(s)

MEQAGARPGATEHRPLRPLPWL LLLSFRLLLVLLPSPAASQLRYSVPPEEQSPGALVGNVARALGLELRR  
 LGPGCLRINHLGAPSPRYLELDLTNGALFVNERIDREALCEQRPRCLLSLEVLAHNPVAVSAIEVEILD  
 NDNSPRFPRPDYQLQVSESVAPGARFHIESAQDPDVGANSVQTYELSPSEHFELDLKPLQENSKVLELVL  
 RKGLDREQTALHYLVLTAVDGGIPARSGTAQIAVRVLDTNDNSPAFDQSTYRVQLREDAPPGLVVKLNA  
 SDPDEGSNGELRYSLSSTSDRERQLFSIDVTTGEVRVSGTLDYEESSSYQIYVQATDRGPVPMAGHCKV  
 LVDIIDVNDNAPEVVLTDLYSPVPEDVALNTVALLSVNDQDSGNSNRKVSLGLEASLPFRLNGFGNSYTL  
 VVSGPLDRERVAAYNITVTATDGGVPLTSQRTLQVEISDINDNPPSFLKDSYSIYIEENLPGVLLCTV  
 QATDPDQKENAEVTYSLLDREIQGLPVTSYVSINSASGSLYAVNSFDYEFREFVTVAEADKGRPPLSS  
 TVTANVYVVDVNDHAPHILYPTSTNTSAAIEMVPRTPAPAGYLVTKVIAMDSDSGQNAWLFYHLVPTSDSD  
 LFKVELHTGEIRITRKIGDESGTTFNLTVVVRDNGEPPLSATVAITVAVVDRVSKMLPDTQRHIKSPRTY  
 SEITLYLIIALSTVSFIFLLTIIIVLSIIKCYRYTAYGTACGGFCGVRERCPAELYKQANNIDARIPHG  
 LKVQPHFIEVRGNGSLTKTYCYKACLTAGSGSDTFMFYNTGAQTGPGPGGAQASVTDNRQLTGQSRHSTG  
 NLIILKNDAGSQNEPRQPNDWRYSASLRAGMHSSVHLEEAGILRAGPGGPDQWPTVSSATPEPEAGEV  
 SPPVAGVNSNSWTFKYGPNPKQSGPGLPKFIIPGSPAIIISIRQEPANNQIDKSDFITFGKKEETKK  
 KKKKKKGNKTQEKKEKGNSTTDNSDQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9002\\_e09.zip](https://cdn.origene.com/chromatograms/mm9002_e09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**



**ACCN:** NM\_001003672

**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](#)

**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\\_001003672.2](#)

**RefSeq Size:** 5422 bp

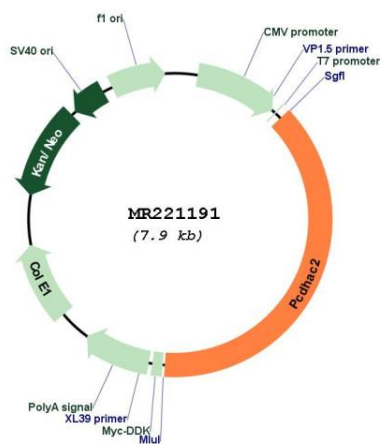
**RefSeq ORF:** 3021 bp

**Locus ID:** 353237

Cytogenetics: 18 B3

MW: 109.9 kDa

**Product images:**



Circular map for MR221191