

Product datasheet for **RR212340**

Pcdha4 (NM_053933) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcdha4 (NM_053933) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcdha4
Synonyms:	Cnr1; cnr5; Pcdha1; Pcdha2; Pcdha5; Pcdha6; Pcdha7; Pcdha8; Pcdha10; Pcdha11; Pcdha12; Pcdha13
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR212340 representing NM_053933
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATTTCTGGGAAGTGCCAGGAATCCCAGCGCTGCTTCTCTTTTCTGTTTCTTGCATCT
 GGGAGCCAGGAAACAGCCAGCTCCACTACTCCATCCCAGAGGAGGCCAAACACGGCACCTTCGTGGGCCG
 CATCGCACAGGACCTGGGGCTGGAGCTGGCGGAGCTGGTGCCTCGCTGTTTCAGGGTGGCGTCCAAGGAC
 CGCGGAGACCTTCTGGAGGTAATCTGCAGAATGGCATTGTTGTTGTGAATTCTCGGATCGATCGGGAGG
 AGCTGTGCGGGAGGAGTGGGAGTGTAGCATCCACTTGGAGGTGATCGTGGACAGGCCGCTGCAGGTTTT
 CCACGTGGAGGTAGAGGTGAGGGACATTAACGACAACCCTCCACGTTCCCAACCCACACAAAAGAATCTG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212340 representing NM_053933
 Red=Cloning site Green=Tags(s)

MEFSWGSQGESQRLLLSFLFLAIWEPGNSQLHYSIPEEAKHGTFVGRFAQDLGLELAELVPRLFRVASKD
 RGDLLLEVNQNGILFVNSRIDREELCGRSAECSIHLEVI VDRPLQVFHVEVEVRDINDNPPTFPPTQKNL
 FIAESRPLDTWFPLEGASDSIDGINAVLTYRLSPNDYFSLEKPTNSERVKGLGLILRKS LDREETPELFL
 VLTVDGDKPEL TGSVQLLITVLDANDNSPVFDRSLYTVKLPENVPNGTLVVKVNASDLDEGANGEMY
 FSTDISPVNKFKHIDPVTGEIAVKGYIDFEECTSYEILIEGIDKQPLPSGHCKVIVQVEDINDNAPEL
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 YKVVVIARDGGLPSLWATASVSVEVADVNDNAPAFAPQPEYTVFVKENPPGAHIFTVSAVDADSQENALV
 SYSLVERRVGERLLSSYVSVHAESGKVFALQPLDHEEELLLQFQVSARDAGVPALGSNVTLQVFLDEND
 NAPTLLPEEAGISGGIVSRLVSRVSGAGHVAVKRAVDADSGYNALSYELQSSEGNRSRSLFRVGLYTGE
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 IIAICAVSLLVLTLLLYSALRCSTVPSESVCGPPKPMVMVCSSAVGWSYSQRRQRVCSGEYPPKTDLM
 AFSPSLSDSRDREDQLQSTEDSSGKPRQPNPDWRYSASLRAGMHSSVHLEEAGILRAGPGGPDQWPTVS
 SATPEPEAGEVSPVVGAGVNSNSWTFKYGPNKQPGGELPKDFIIPGSPAIISIRQESANNQIDKSDFI
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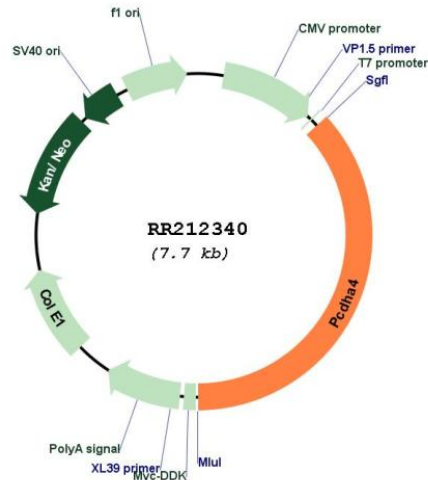
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053933

ORF Size: 2841 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_053933.1](#), [NP_446385.1](#)

RefSeq Size: 5241 bp

RefSeq ORF: 2844 bp

Locus ID: 116741

UniProt ID: [Q76718](#)

Cytogenetics: 18p11
MW: 103 kDa
Gene Summary: binds dental epithelial and mesenchymal cells; may play a role in enamel and dentin formation during incisor development [RGD, Feb 2006]