

## Product datasheet for **RC234988**

### R Cadherin (CDH4) (NM\_001252338) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	R Cadherin (CDH4) (NM_001252338) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	R Cadherin
Synonyms:	CAD4; R-CAD; RCAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234988 representing NM\_001252338  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACGGCAGCTGTGACTTCATTCTCAGCGCCTCCTTTCTACCCTGCTTTAAAGAAGTCAAGTTACAGCA  
 GCTGTGTGGGGACCAAGGGGACACAATATGAGACCAACAGCATGGACTTCAAAGTTGGGGCAGATGGGAC  
 AGTCTTCGCCACCCGGGAGCTGCAGTCCCTCCGAGCAGGTGGCGTTACCGGTGACTGCATGGGACAGC  
 CAGACAGCAGAGAAATGGGACGCCGTGGTGCAGTTCGTTGGTGGCCAGACCTCGTCCCCGACTCTGGAC  
 ACAAGCCGCAGAAAGGAAAGAAGGTCTGGCTCTGGACCCTCTCCGCCTCCGAAGGACACCCTGCTGCC  
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 GTGCCCGAGAACTCGCGGGGCCCTTCCCGCAGCAGCTCGTGAGGATCCGGTCCGACAAAGACAATGACA  
 TCCCCATCCGGTACAGCATCACGGGAGTGGGCGCCGACCAGCCCCCATGGAGGTCTTCAGCATTGACTC  
 CATGTCCGGCCGGATGTACGTACAAGGCCATGGACCGGGAGGAGCAGCCTCTTACCACCTCCGAGCC  
 CACGCTGTGGACATGAATGGCAACAAGGTGGAGAACCCTATCGACTGTACATCTACGTATCGACATGA  
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 CCAGATTAAGAAGCTGGCGGACATGTATGGAGGTGGTGAAGAGGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234988 representing NM\_001252338  
 Red=Cloning site Green=Tags(s)

MNGSCDFILSASFPCFKEVKFSSCVGKTQYETNSMDFKVGADGTVFATRELQVPSEQVAVFTVAWDS  
 QTAEKWDAVVRLLVAQTSSPHSGHKPQKGGKVVVALDPSPPKDILLPWPQHONANGLRRRKRWDVIPPIN  
 VPENSRGPFPPQLVRIKSDKNDIPIRYSITGVGADQPPMEVFSIDSMGRMYVTRPMDREEHASVHLRA  
 HAVDMNGNKVENPIDLYIYVIDMNDNRPEFINQVYNGSVDEGSKPGTYVMTVTANDADDSTANGMVRYR  
 IVTQTPQSPSQNMFTINSETGDIPTVAAGLDREKVQYTVIVQATDMEGNLNYGLSNTATAIITVTDVND  
 NPPEFTASTFAGEVPENRVETVVANLTVMDRDQPHSPNWNNAVYRIISGDPSPGHFSVRTDPVTNEGMVTVV  
 KAVDYELNRAFMLTVMVSNQAPLASGIQMSFQSTAGVTISIMDINEAPYFSPNHKLIRLEEGVPPGTVLT  
 TFSAVDPDRFMQAVRYSKLSDPASWLHINATNGQITTAAVLDRESLYTKNNVYEATFLAADNGIPPASG  
 TGTLQIYLIDINDAPELLPKEAQICEKPNLNAINITAADADVPNIGPYVVFELPFVPAAVRKNWITRL  
 NGDYAQLSLRILYLEAGMYDVP IIVTDSGNPPLSNTSIIKVKVCPDDNGDCTTIGAVAAAGLTGAIVA  
 ILICILILLTMVLLFVMMKREKERHTKQLLIDPEDDVRDNIKYDEEGGGEEDQDYDLSQLQQPEAMG  
 HVPSKAPGVRRVDERPVGAEQPYPVIRMPVPHPGDIGDFINEGLAADNDPTAPPYDLSLVFDYEGSGSTA  
 GSVSSLNSSSSGDQDYDYLNDWGPRFKKLADMYGGGEED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

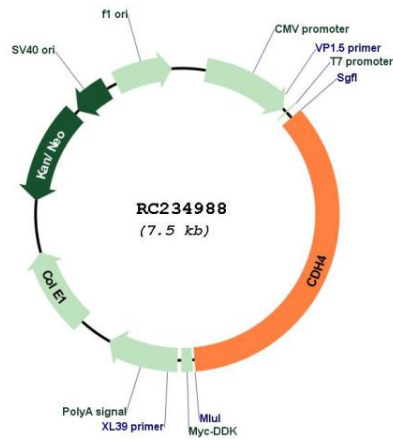
SgfI-MluI

Cloning Scheme:



<b>ACCN:</b>	NM_001252338
<b>ORF Size:</b>	2637 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_001252338.2</a>
<b>RefSeq Size:</b>	6343 bp
<b>RefSeq ORF:</b>	2640 bp
<b>Locus ID:</b>	1002
<b>Cytogenetics:</b>	20q13.33
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs)
<b>MW:</b>	96.8 kDa
<b>Gene Summary:</b>	This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Based on studies in chicken and mouse, this cadherin is thought to play an important role during brain segmentation and neuronal outgrowth. In addition, a role in kidney and muscle development is indicated. Of particular interest are studies showing stable cis-heterodimers of cadherins 2 and 4 in cotransfected cell lines. Previously thought to interact in an exclusively homophilic manner, this is the first evidence of cadherin heterodimerization. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RC234988