

## Product datasheet for **SC332188**

### R Cadherin (CDH4) (NM\_001252338) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	R Cadherin (CDH4) (NM_001252338) Human Untagged Clone
Tag:	Tag Free
Symbol:	R Cadherin
Synonyms:	CAD4; R-CAD; RCAD
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

**Fully Sequenced ORF:** >SC332188 representing NM\_001252338.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGAACGGCAGCTGTGACTTCATTCTCAGCGCCTCCTTTCTACCCTGCTTTAAAGAAGTCAAGTTCAGC
AGCTGTGTGGGGACCAAGGGGACACAATATGAGACCAACAGCATGGACTTCAAAGTTGGGGCAGATGGG
ACAGTCTTCGCCACCCGGGAGCTGCAGGTCCCCCTCCGAGCAGGTGGCGTTCACGGTGACTGCATGGGAC
AGCCAGACAGCAGAGAAATGGGACGCCGTGGTGGGTTGCTGGTGGCCAGACCTCGTCCCCGACTCT
GGACACAAGCCGAGAAAAGGAAAGAGTCTGGCTCTGGACCCCTCTCCGCCTCCGAAGGACACCCCTG
CTGCCGTGGCCCAAGCAGCAGAACGCCAACGGGCTGAGGCGGCGCAAACGGGACTGGGTCATCCCCGCC
ATCAACGTGCCCGAGAACTCGCGCGGGCCCTTCCCGCAGCAGCTCGTGAGGATCCGGTCCGACAAAGAC
AATGACATCCCCATCCGTACAGCATCACGGGAGTGGGCGCCGACCAGCCCCCATGGAGGTCTTCAGC
ATTGACTCCATGTCCGGCCGGATGTACGTCACAAGGCCCATGGACGGGAGGAGCAGCCTCTTACCAC
CTCCGAGCCCACGCTGTGGACATGAATGGCAACAAGGTGGAGAACCCCATCGACCTGTACATCTACGTC
ATCGACATGAATGACAACCGCCCTGAGTTCATCAACCAGGTCTACAACGGCTCCGTGGACGAGGGCTCC
AAGCCAGGCACCTACGTGATGACCGTACGGCCAACGATGCTGACGACAGCACCAGGCCAACGGGATG
GTGCGGTACCGGATCGTGACCCAGACCCACAGAGCCCGTCCAGAAATATGTTTACCATCAACAGCGAG
ACTGGAGATATCGTCACAGTGGCGGCTGGCCTGGACCGAGAGAAAAGTTCAGCAGTACACAGTCACTGTT
CAGGCCACAGATATGGAAGGAAATCTCAACTATGGCCTCTCAAACACAGCCACAGCCATCATCACGGTG
ACAGATGTGAATGACAACCCGCCAGAAATTTACCGCCAGCAGTTCAGGGGAGGTCCCCGAAAACCGC
GTGGAGACCGTGGTCGAAAACCTCACGGTATGGACCGAGATCAGCCCCACTCTCCAAATGGAATGCC
GTTTACCGCATCATCAGTGGGGATCCATCCGGGCACTTACGCTCCGACAGACCCCGTAACCAACGAG
GGCATGGTACCCTGGTGAAGGCAGTGCAGTACGAGCTCAACAGAGCTTTCATGCTGACAGTGTGGTG
TCCAACAGGCGCCCTGGCCAGCGGAATCCAGATGTCCCTCCAGTCCACGGCAGGGGTGACCATCTCC
ATCATGGACATCAACGAGGCTCCCTACTTCCCCTCAAACCAACAAGCTGATCCGCCTGGAGGAGGGGTG
CCCCCGGCACCGTGTGACACGTTTTTCACTGTGGACCTGACCGGTTTATGCAGCAGGCTGTGAGA
TACTCAAAGCTGTGACACCCAGCGAGCTGGCTGCACATCAATGCCACCAACGGCCAGATCACACGGCG
GCAGTGTGGACCGTGTGCTTCTACACCAAAAAACAAGTCTACGAGGCCACCTTCTGGCAGCTGAC
AATGGGATACCCCGGCCAGCGGACCGGGACCTCCAGATCTATCTCATTGACATCAACGACAACGCC
CCTGAGCTGTGCCCAAGGAGGCGCAGATCTGCGAGAAGCCAACTGAACGCCATCAACATCACGGCG
GCCGACGCTGACGTCGACCCCAACATCGGCCCTACGCTTTCGAGCTGCCCTTTGTCCCGGCGCCGTG
CGGAAGAACTGGACCATACCCGCTGAACGGTACTATGCCAACTCAGCTTGGCATCCTGTACCTG
GAGGCCGGGATGTATGAGTCCCATCATCGTCAACAGACTCTGGAAACCTCCCTGTCCAACACGTCC
ATCATCAAAGTCAAGGTGTGCCATGTGATGACAACGGGGACTGCACCACCATTTGGCGAGTGGCAGCG
GCTGGTCTGGGACCGGTGCCATCGTGGCCATCCTCATCTGCATCCTCATCTGTGACCATGGTCTG
CTGTTTGTGATGTGGATGAAGCGGCGAGAGAAGGAGCGCCACACGAAGCAGCTGCTATTGACCCCGAG
GACGAGTCCCGGACAACATCCTCAAGTATGACGAGGAAGGCGGTGGCGAGGAGGACCAGGACTACGAC
CTCAGCCAGCTGCAGCAGCCGGAAGCCATGGGGCAGTCCAAGCAAAGCCCTGGCGTGGTCCGCTG
GATGAGCGGCCGTGGGCGCTGAGCCCCAGTACCCGATCAGGCCATGGTGCCGACCCAGGCGACATC
GGTGACTTCATCAATGAGGGACTCCGCGCTGTGACAACGACCCACGGCACCCCTATGACTCCCTG
CTGGTCTTCGACTACGAGGGGAGCGGCTCCACCGCAGGCTCCGTGACGCTCCCTGAATCATCCAGTTCC
GGGACCAAGACTACGATTACCTCAACGACTGGGGGCCAGATTCAAGAAGCTGGCGGACATGTATGGA
GGTGGTGAAGAGGATGA
  
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001252338  
**Insert Size:** 2640 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_001252338.1</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>	96.4 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) has an alternate exon in place of the first two exons compared to variant 1, and the alternate exon has an in-frame translation start site. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>