

Product datasheet for **SC119019**

R Cadherin (CDH4) (NM_001794) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	R Cadherin (CDH4) (NM_001794) Human Untagged Clone
Tag:	Tag Free
Symbol:	R Cadherin
Synonyms:	CAD4; R-CAD; RCAD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_001794 edited

AGCGGGCGGGTGGTCTCGGCGGGCGGCGGGCGGGCAGGGAGCGGGCTCCCGGT
GCCGGGACCGGGCGGGCGGGGAAGATGACCGGGCGGGCGGTGCTCTTCTGCT
GCTCTCGCTCTCCGGCGGCTCCGGGCCATAATGAGGATCTTACAACTAGAGAGACCTG
CAAGGCTGGGTTCTGAAGATGATTACACGGCATTAATCTCCAAAATATTCTAGAAGG
GGAAAAGCTACTTCAAGTCAAGTTCAGCAGCTGTGTGGGACCAAGGGGACACAATATGA
GACCAACAGCATGGACTTCAAAGTTGGGGCAGATGGGACAGTCTCGCCACCGGGAGCT
GCAGGTCCTCCGAGCAGGTGGCGTTACGGTACTGTCATGGGACAGCCAGACAGCAGA
GAAATGGGACGCGTGGTGGGTGCTGGTGGCCAGACCTCGTCCCGACTCTGGACA
CAAGCCGAGAAAGGAAAGAAGGTGCTGGTCTGGACCCCTCTCCGCTCCGAAGGACAC
CCTGCTGCGTGGCCCCAGCACCGAACGCAACGGGCTGAGGCGGCGAAACGGGACTG
GGTCATCCCGCCATCAACGTGCCCCGAGAAGTCCGCGGGGCCCTTCCCGCAGCAGCTCGT
GAGGATCCGTCGACAAAGACAATGACATCCCATCCGTTACAGCATCACGGGAGTGGG
CGCCGACCAGCCCCATGGAGGTTTTCAGCATTGACTCCATGTCCGGCCGGATGTACGT
CACAAGGCCATGGACCGGGAGGAGCACGCTCTTACCACCTCCGAGCCCAGCTGTGGA
CATGAATGGCAACAAGGTGGAGAACCCATCGACTGTACATCTACGTATCGACATGAA
TGACAACCGCCCTGAGTTTCAACAGGTCTACAACGGCTCCGTGGACGAGGGCTCCAA
GCCAGGCACCTACGTGATGACCGTACGCGCAACGATGCTGACGACAGCACACGGCCAA
CGGGATGGTGGGTACCGGATCGTGACCAGACCCACAGAGCCCGTCCGAGAATATGTT
CACCATCAACAGCGAGACTGGAGATATCGTACAGTGGCGGCTGGCCTGGACCGAGAGAA
AGTTCAGCAGTACACAGTATCGTTCAGGCCACAGATATGGAAGGAAATCTAACTATGG
CCTCTCAAACACAGCCACAGCCATCATCACGGTACAGATGTGAATGACAACCGGCCAGA
ATTTACCGCCAGCAGTTTTCAGGGGAGGTCCCGAAAACCGCGTGGAGACCGTGTCGC
AAACTCACGGTATGGACCGAGATCAGCCCCACTCTCAAACGTAATGCGGTTTACC
CATCATAGTGGGATCCATCCGGGCACTTACGGTCCGACAGATCCCGTAACCAACGA
GGGCATGGTCACCGTGGTGAAGGCAGTCGACTACGAGCTCAACAGAGCTTTCATGCTGAC
AGTGATGGTGTCCAACAGGCGCCCTGGCCAGCGGAATCCAGATGTCTTCCAGTCCAC
GGCAGGGGTGACCATCTCCATCATGGACATCAACGAGGCTCCCTACTTCCCTCAAACCA
CAAGCTGATCCGCTGGAGGAGGGCGTCCCGGGCACCGTGTGACACGTTTTTCAGC
TGTGGACCCTGACCGTTTCATGCAGCAGGCTGTGAGATACTCAAAGCTGTGAGCCAGC
GAGCTGGTGCACATCAATGCCACCAACGGCCAGATCACCACGGGGCAGTGTGACCG
TGAGTCCCTCTACACAAAACAAACGCTTACGAGGCCACCTTCCGCGAGCTGACAATGG
GATACCCCGGCAAGCGGCACCGGGACCCTCCAGATCTATCTATTGACATCAACGACAA
CGCCCTGAGCTGCTGCCAAGGAGGCAGATCTGCGAGAAGCCAACTGAACGCCAT
CAACATCACGGCGGCGAGCTGACGTCGACCCCAACATCGGCCCTACGTCTTTCAGCT
GCCCTTGTCCCGGCGCGTGCAGGAAGAACTGGACCATCACCCGCTGAACGGTACTA
TGCCCACTCAGTTGCGCATCTGTACTTGGAGGCGGGATGTATGACTCCCCATCAT
CGTCACAGACTTGGAACCCCTCCCTGTCCAACAGTCCATCATCAAAGTCAAGGTGTG
CCATGTGATGACAACGGGGAGTGCACCACCATTGGCGCAGTGGCAGCGGCTGGTCTGG
CACCAGTGCATCGTGCCATCTCATCTGCATCTCATCCTGTGACCATGGTCTCTGCT
GTTTGTACATGTGATGAAGCGGCGAGAGAAGGAGCGCCACACGAAGCAGTGTCTATTGA
CCCCGAGGACGACGTCCGCGACAACATCTCAAGTATGACGAGGAAGGCGGTGGCAGGA
GGACCAGGACTACGACCTCAGCCAGCTGCAGCAGCGGAAGCCATGGGGCAGTGCACA
CAAAGCCCTGGCGTGCCTCGCTGGATGAGCGGCGGTGGCGCTGAGCCCCAGTACCC
GATCAGGCCCATGGTCCCGCACCGGACATCGGTGACTTTCATCAATGAGGGACTCCG
CGTGTGACAACGACCCACGGCACCCCTATGACTCCCTGCTGGTCTTCGACTACGA
GGGAGCGGCTCCACCGAGGCTCGTCAAGCTCCCTGAAGTCCAGTTCCGGGGACCA
AGACTACGATTACCTCAACGACTGGGGGCCAGATTCAAGAAGCTGGCGGACATGTATGG
AGGTGGTGAAGAGGATTGACTGACCTCGCATCTTCGGACCGAAGTGAAGCCGTGCTCGG
ACGCCGAGGAGCAGGACTGAGCAGAGGCGG

Restriction Sites:

NotI-NotI

ACCN:	NM_001794
Insert Size:	2900 bp
OTI Disclaimer:	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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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:	<u>NM_001794.2</u> , <u>NP_001785.2</u>
RefSeq Size:	3063 bp
RefSeq ORF:	2751 bp
Locus ID:	1002
UniProt ID:	<u>P55283</u>
Cytogenetics:	20q13.33
Domains:	Cadherin_C_term, CA
Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)

Gene Summary:

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest 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.