

Product datasheet for **RC206551**

Cadherin 16 (CDH16) (NM_004062) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadherin 16 (CDH16) (NM_004062) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cadherin 16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC206551 representing NM_004062
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGTCCCTGGCTGGCTGTGGCTGCTTTGTGTCTCCGTCCCCAGGCTCTCCCCAAGGCCAGCCTGCAG
 AGCTGTCTGTGGAAGTTCCAGAAACTATGGTGGAAATTTCCCTTTATACCTGACCAAGTTGCCGTGCC
 CCGTGAGGGGGCTGAAGGCCAGATCGTGCTGTACAGGGGACTCAGGCAAGGCAACTGAGGGCCATTGTCT
 ATGGATCCAGATTCTGGCTTCTGCTGGTGACAGGGCCCTGGACCGAGAGGAGCAGGCAGAGTACCAGC
 TACAGGTACCCCTGGAGATGCAGGATGGACATGTCTTGTGGGTCCACAGCCTGTGCTTGTGCACGTGAA
 GGATGAGAATGACCAGGTGCCCATTTCTCTCAAGCCATCTACAGAGCTCGGCTGAGCCGGGGTACCAGG
 CCTGGCATCCCCCTTCTCTTCTTGAGGCTTCAGACCGGATGAGCCAGGCACAGCCAACCTCGGATCTTC
 GATTCCACATCTGAGCCAGGCTCCAGCCAGCCTTCCCAGACATGTTCCAGCTGGAGCCTCGGCTGGG
 GGCTCTGGCCCTCAGCCCCAAGGGGAGCACCAGCCTTGACCACGCCCTGGAGAGGACCTACCAGCTGTTG
 GTACAGGTCAAGGACATGGGTGACCAGGCCTCAGGCCACCAGGCCACTGCCACCGTGGAAGTCTCCATCA
 TAGAGAGCACCTGGGTGTCCCTAGAGCCTATCCACCTGGCAGAGAATCTCAAAGTCTATACCCGACCA
 CATGGCCAGGTACACTGGAGTGGGGTGATGTGCACTATCACCTGGAGAGCCATCCCCGGGACCCCTT
 GAAGTGAATGCAGAGGGAACCTCTACGTGACCAGAGAGCTGGACAGAGAAGCCAGGCTGAGTACCTGC
 TCCAGGTGCGGGCTCAGAATCCCATGGCGAGGACTATGCGGCCCTCTGGAGCTGCACGTGCTGGTGAT
 GGATGAGAATGACAACGTGCCTATCTGCCCTCCCGTGACCCACAGTCAGCATCCCTGAGCTCAGTCCA
 CCAGGTACTGAAGTGACTAGACTGTGAGCAGAGGATGCAGATGCCCCGGCTCCCCAATTCCCAGTTG
 TGTATCAGCTCCTGAGCCCTGAGCCTGAGGATGGGGTAGAGGGGAGAGCCTTCCAGGTGGACCCACTTC
 AGGCAGTGTGACGCTGGGGGTGCTCCCACTCCGAGCAGGCCAGAACATCCTGCTTCTGGTGTGGCCATG
 GACCTGGCAGGCGCAGAGGGTGGCTTCAGCAGCACGTGTGAAGTCGAAGTCGAGTCACAGATATCAATG
 ATCACGCCCTGAGTTTCACTTCCCAGATTGGGCCTATAAGCCTCCCTGAGGATGTGGAGCCCGGAC
 TCTGGTGGCCATGCTAACAGCCATTGATGCTGACCTCGAGCCCGCTTCCGCTCATGGATTTTGCATT
 GAGAGGGGAGACACAGAAGGGACTTTTGGCCTGGATTGGGAGCCAGACTCTGGGCATGTTAGACTCAGAC
 TCTGCAAGAACCCTCAGTTATGAGGCAGCTCCAAGTCATGAGGTGGTGGTGGTGGTGCAGAGTGTGGCGAA
 GCTGGTGGGGCCAGGCCAGGCCCTGGAGCCACCGCCACGGTGACTGTGCTAGTGAGAGAGTGTGCCA
 CCCCCAAGTTGGACCAGGAGAGCTACGAGGCCAGTGTCCCATCAGTGCCCCAGCCGGCTTTTCTGCTG
 TGACCATCCAGCCCTCCGACCCATCAGCCGAACCCTCAGGTTCTCCCTAGTCAATGACTCAGAGGGCTG
 GCTCTGCATTGAGAAATCTCCGGGGAGGTGCACACCGCCAGTCCCTGCAGGGCGCCAGCCTGGGGAC
 ACCTACACGGTGCTTGTGGAGGCCAGGATACAGATGAGCCGAGACTGAGCGCTTCTGCACCCCTGGTGA
 TCCACTTCTAAAGGCCCTCTGCCCCAGCCCTGACTCTTGCCCTGTGCCCTCCCAATACCTCTGCAC
 ACCCGCCAAGACCATGGCTTGATCGTGAGTGGACCCAGCAAGGACCCCGATCTGGCCAGTGGGCACGGT
 CCCTACAGCTTACCCTTGGTCCCAACCCACGGTGCAACGGGATTGGCGCTCCAGACTCTCAATGGTT
 CCCATGCCTACCTCACCTTGGCCCTGCATTGGGTGGAGCCACGTGAACACATAATCCCCGTGGTGGTCAG
 CCACAATGCCCAGATGTGGCAGCTCCTGGTTCGAGTGATCGTGTGCTGCAACGTGGAGGGGCAGTGC
 ATGCGCAAGGTGGGCCGATGAAGGGCATGCCACGAAGCTGTCGCGCAGTGGGCATCCTTTAGGCACCC
 TGGTAGCAATAGGAATCTTCTCATCTCATTTTACCCACTGGACCATGTCAAGGAAGAAGGACCCGGA
 TCAACCAGCAGACAGCTGCCCTGAAGGCGACTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206551 representing NM_004062
 Red=Cloning site Green=Tags(s)

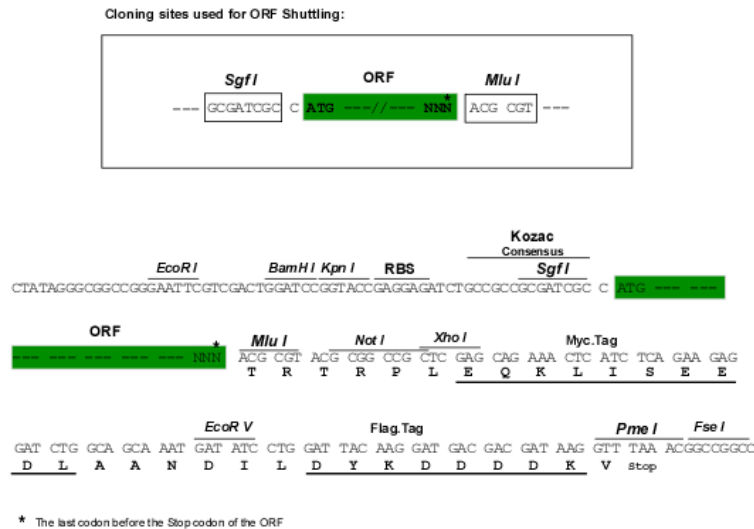
MVPAWLWLLCVSVPQALPKAQAELSVEVPENYGGNFPLYLTKLPLPREGAEGQIVLSGDSGKATEGPFA
 MDPDSGFLLVTRALDREEQAEYQLQVTLEMQDGHVLWGPQPVLVHVKDENDQVPHFSQAIYRRLSRGTR
 PGIPFLFLEASDRDEPGTANSDLRFHILSQAPAQSPDMFQLEPRLGALALSPKGSTSLDHALERTYQLL
 VQVKDMGDQASGHQATATVEVSIESTWVSLEPIHLAENLKVLYPHHMAQVHWSGGDVHYHLESHPPGPF
 EVNAEGNLYVTRELDREAQAEYLLQVRAQNSHGEDIAAPLELHVLVMDENDNVPICPPRDPTVSIPELSP
 PGTEVTRL SAEDADAPGSPNSHVYQLLSPEPEDGVEGRAFQVDPTSGSVTLGVLPRLRAGQNILLVLAM
 DLAGAEGGFSSTCEVEVAVTDINDHAPEFITSQIGPISLPEDVEPGTLVAMLTADADLEPAFRLMDFAI
 ERGDTEGTFGLDWEPSGHVRLRLCKNLSYEAAPSHEVVVVVQSVAKLVGPGPGGATATVTVLVERVMP
 PPKLDQESYEASVPI SAPAGSFLLTIQPSDPI SRTLRFSLVNDSEGWLCIEKFSGEVHTAQLQGAQPGD
 TYTVLVEAQDTDEPRLSASAPLVIHFLKAPPAPALTLAPVPSQYLCTPRQDHGLIVSGPSKDPDLASGHG
 PYSFTLGNPTVQRDWRLQTLNGSHAYLTLALHWVEPREHIIPVVVSHNAQMWQLLVRVIVCRCNVEGQC
 MRKVGRMKGMPKLSAVGILVGTLVAIGIFLILIFTHWTMSRKKDPDQPADSVPLKATV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3144_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004062

ORF Size: 2487 bp

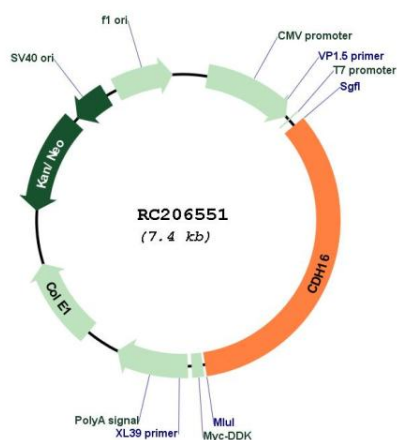
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

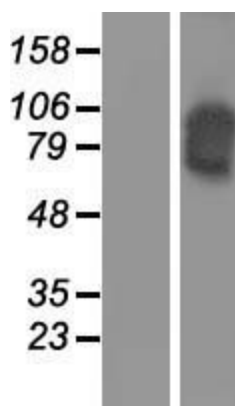
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_004062.4</u>
RefSeq Size:	2833 bp
RefSeq ORF:	2490 bp
Locus ID:	1014
UniProt ID:	<u>O75309</u>
Cytogenetics:	16q22.1
Protein Families:	Transmembrane
MW:	89.92 kDa
Gene Summary:	This gene is a member of the cadherin superfamily, genes encoding calcium-dependent, membrane-associated glycoproteins. Mapped to a previously identified cluster of cadherin genes on chromosome 16q22.1, the gene localizes with superfamily members CDH1, CDH3, CDH5, CDH8 and CDH11. The protein consists of an extracellular domain containing 6 cadherin domains, a transmembrane region and a truncated cytoplasmic domain but lacks the prosequence and tripeptide HAV adhesion recognition sequence typical of most classical cadherins. Expression is exclusively in kidney, where the protein functions as the principal mediator of homotypic cellular recognition, playing a role in the morphogenic direction of tissue development. Alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Mar 2011]

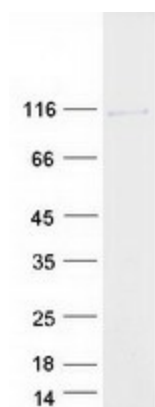
Product images:



Circular map for RC206551



Western blot validation of overexpression lysate (Cat# [LY418245]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206551 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CDH16 protein (Cat# [TP306551]). The protein was produced from HEK293T cells transfected with CDH16 cDNA clone (Cat# RC206551) using MegaTran 2.0 (Cat# [TT210002]).