

Product datasheet for **RG206551**

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:	TurboGFP
Symbol:	Cadherin 16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG206551 representing NM_004062
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGTCCCTGCCTGGCTGTGGCTGCTTTGTGTCTCCGTCCCCAGGCTCTCCCCAAGGCCAGCCTGCAG
 AGCTGTCTGTGGAAGTTCCAGAAACTATGGTGGAAATTTCCCTTTATACCTGACCAAGTTGCCGTGCC
 CCGTGAGGGGGCTGAAGGCCAGATCGTGCTGTACAGGGGACTCAGGCAAGGCAACTGAGGGCCATTGTCT
 ATGGATCCAGATTCTGGCTTCTGCTGGTGACAGGGCCCTGGACCGAGAGGAGCAGGCAGAGTACCAGC
 TACAGGTACCCCTGGAGATGCAGGATGGACATGTCTTGTGGGTCCACAGCCTGTGCTTGTGCACGTGAA
 GGATGAGAATGACCAGGTGCCCATTTCTCTCAAGCCATCTACAGAGCTCGGCTGAGCCGGGGTACCAGG
 CCTGGCATCCCCCTTCTCTTCTTGAGGCTTCAGACCGGATGAGCCAGGCACAGCCAACCTCGGATCTTC
 GATTCCACATCCTGAGCCAGGCTCCAGCCAGCCTTCCCAGACATGTTCCAGCTGGAGCCTCGGCTGGG
 GGCTCTGGCCCTCAGCCCCAAGGGGAGCACCAGCCTTGACCACGCCCTGGAGAGGACCTACCAGCTGTTG
 GTACAGGTCAAGGACATGGGTGACCAGGCTCAGGCCACCAGGCCACTGCCACCGTGGAAGTCTCCATCA
 TAGAGAGCACCTGGGTGTCCCTAGAGCCTATCCACCTGGCAGAGAATCTCAAAGTCTATACCCGACCA
 CATGGCCAGGTACACTGGAGTGGGGTGATGTGCACTATCACCTGGAGAGCCATCCCCGGGACCCCTT
 GAAGTGAATGCAGAGGGAACCTCTACGTGACCAGAGAGCTGGACAGAGAAGCCAGGCTGAGTACCTGC
 TCCAGGTGCGGGCTCAGAATCCCATGGCGAGGACTATGCGGCCCTCTGGAGCTGCACGTGCTGGTGAT
 GGATGAGAATGACAACGTGCCTATCTGCCCTCCCGTGACCCACAGTCAGCATCCCTGAGCTCAGTCCA
 CCAGGTACTGAAGTGACTAGACTGTGAGCAGAGGATGCAGATGCCCCGGCTCCCCAATTCCCACGTTG
 TGTATCAGCTCCTGAGCCCTGAGCCTGAGGATGGGGTAGAGGGGAGAGCCTTCCAGGTGGACCCACTTC
 AGGCAGTGTGACGCTGGGGGTGCTCCCACTCCGAGCAGGCCAGAACATCCTGCTTCTGGTGTGGCCATG
 GACCTGGCAGGCGCAGAGGGTGGCTTCAGCAGCACGTGTGAAGTCGAAGTCGAGTCACAGATATCAATG
 ATCACGCCCTGAGTTTCACTTCCCAGATTGGGCCTATAAGCCTCCCTGAGGATGTGGAGCCCGGAC
 TCTGGTGGCCATGCTAACAGCCATTGATGCTGACCTCGAGCCCGCTTCCGCTCATGGATTTGCCATT
 GAGAGGGGAGACACAGAAGGACTTTTGGCCTGGATTGGGAGCCAGACTCTGGGCATGTTAGACTCAGAC
 TCTGCAAGAACCTCAGTTATGAGGCAGCTCCAAGTCATGAGGTGGTGGTGGTGGTGCAGAGTGTGGCGAA
 GCTGGTGGGGCCAGGCCAGGCCCTGGAGCCACCGCCACGGTGACTGTGCTAGTGGAGAGAGTGATGCCA
 CCCCCAAGTTGGACCAGGAGAGCTACGAGGCCAGTGTCCCATCAGTGCCCCAGCCGGCTTTTCTGCTG
 TGACCATCCAGCCCTCCGACCCATCAGCCGAACCCTCAGGTTCTCCCTAGTCAATGACTCAGAGGGCTG
 GCTCTGCATTGAGAAATCTCCGGGGAGGTGCACACCGCCAGTCCCTGCAGGGCGCCAGCCTGGGGAC
 ACCTACACGGTGCTTGTGGAGGCCAGGATACAGATGAGCCGAGACTGAGCGCTTCTGCACCCCTGGTGA
 TCCACTTCTAAAGGCCCTCTGCCCCAGCCCTGACTCTTGCCCTGTGCCCTCCCAATACCTCTGCAC
 ACCCGCCAAGACCATGGCTTGATCGTGAGTGACCCAGCAAGGACCCCGATCTGGCCAGTGGGCACGGT
 CCCTACAGCTTACCCTTGGTCCCAACCCACGGTGCAACGGGATTGGCGCCTCCAGACTCTCAATGGTT
 CCCATGCCTACCTCACCTTGGCCCTGCATTGGGTGGAGCCACGTGAACACATAATCCCCGTGGTGGTCAG
 CCACAATGCCAGATGTGGCAGCTCCTGGTTCGAGTGATCGTGTGCTGCAACGTGGAGGGGCAGTGC
 ATGCGCAAGGTGGCCCGCATGAAGGGCATGCCACGAAGCTGTCGCGCAGTGGGCATCCTTTAGGCACCC
 TGGTAGCAATAGGAATCTTCTCATCTCATTTTACCCACTGGACCATGTCAAGGAAGAAGGACCCGGA
 TCAACCAGCAGACAGCTGCCCTGAAGCGACTGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

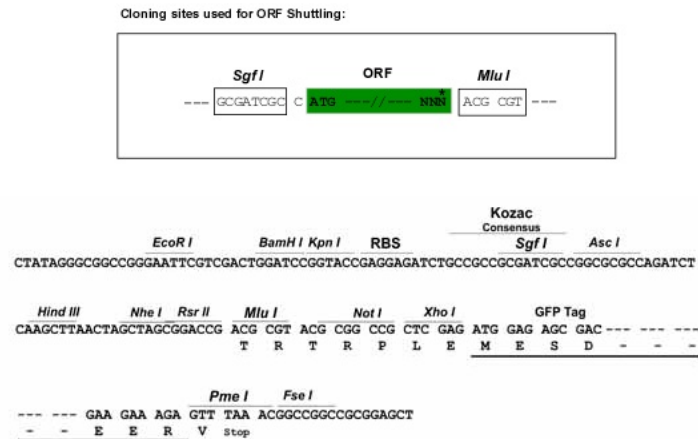
Protein Sequence: >RG206551 representing NM_004062
 Red=Cloning site Green=Tags(s)

MVPAWLWLLCVSVPQALPKAQAELSVEVPENYGGNFPLYLTKLPLPREGAEGQIVLSGDSGKATEGPFA
 MDPDSGFLLVTRALDREEQAEYQLQVTLEMQDGHVWGPQPVLVHVKDENDQVPHFSQAIYRRLSRGTR
 PGIPFLFLEASDRDEPGTANSDLRFHILSQAPAQSPDMFQLEPRLGALALSPKGSTSLDHALERTYQLL
 VQVKMDGDAQSGHQATATVEVSIESTWVSLEPIHLAENLKVLYPHHMAQVHWSGGDVHYHLESHPPGPF
 EVNAEGNLYVTRELDREAQAEYLLQVRAQNSHGEDIAAPLELHVLVMDENDNVPICPPRDPTVSIPELSP
 PGTEVTRLAEDADAPGSPNSHVYQLLSPEPEDGVEGRAQVDPVTPSGSVTLGVLPLRAGQNILLVLAM
 DLAGAEGFSSSTCEVAVTDINDHAPEFITSQIGPISLPEDVEPGTLVAMLTADADLEPAFRMLDFAI
 ERGDTETGFLDWEPPDSGHVRLRLCKNLSYEAAPSHVSVVVQSVAKLVGPGPGGATATVTVLVERVMP
 PPKLDQESYEASVPI SAPAGSFLTTIQSDPISRTLRFSLVNDSEGWLCIEKFSGEVHTAQLQGAQPGD
 TYTVLVEAQDTEPRLSASAPLVIHFLKAPPAPALTLAPVPSQYLCTPRQDHGLIVSGPSKDPDLASGHG
 PYSFTLGPNTVQRDWRQLTNGSHAYLTLALHWVEPREHIIPVVVSHNAQMWQLLVRVIVCRCNVEGQC
 MRKVGRMKGMPTKLSAVGILVGTLVAGIFLILIFTHWTMSRKKDPDQPADSVPLKATV

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004062

ORF Size: 2487 bp

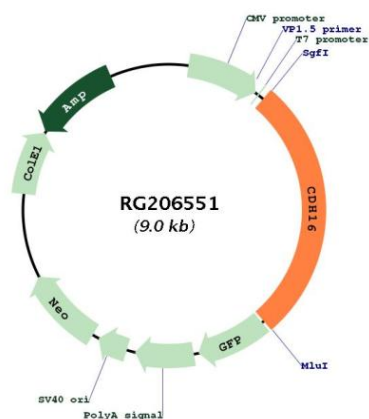
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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
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 RG206551