

Product datasheet for **RC206068**

CDHH (CDH13) (NM_001257) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDHH (CDH13) (NM_001257) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDHH
Synonyms:	CDHH; P105
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC206068 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGCCGAGAACTCCGCTCGTTCTGTGCGTTCTCCTGTCCCAGGTGCTGCTGCTAACATCTGCAGAAG
 ATTTGGACTGCACTCCTGGATTTTCAGCAGAAAGTGTTCATATCAATCAGCCAGCTGAATTCATTGAGGA
 CCAGTCAATTCTAACTTGACCTTCAGTACTGTAAAGGAAACGACAAGCTACGCTATGAGGTCTCGAGC
 CCATACTTCAAGGTGAACAGCGATGGCGGCTTAGTTGCTCTGAGAAACATAACTGCAAGTGGGCAAACTC
 TGTTCTGTCATGCACGGACCCCATGCGGAAGATATGGCAGAACTCGTGATTGTCGGGGGAAAGACAT
 CCAGGGCTCCTTGCAAGATATTTAAATTTGCAAGAATTCTCCTGTCCCAAGACAAAAGAGGTCCATT
 GTGGTATCTCCATTTTAAATCCAGAGAATCAGAGACAGCCTTCCCAAGAGATGTTGGCAAGGTAGTGC
 ATAGTGACAGGCCAGAAAGGTCCAAGTTCGGCTCACTGGAAAGGGAGTGGATCAAGAGCCTAAAGGAAT
 TTTCAGAATCAATGAGAACACAGGGAGCGTCTCCATGACACGGACCTTGGACAGAGAAGTAAATCGCTGTT
 TATCAACTATTTGTGGAGACCACTGATGTCATGGCAAACTCTCGAGGGCCGGTGCCTCTGGAAGTCA
 TTGTGATTGATCAGAATGACAACCGACCGATCTTCGGGAAGGCCCTACATCGGCCACGTCATGGAAGG
 GTCACCCACAGGCACCACAGTGTGCGGATGACAGCCTTTGATGCAGATGACCCAGCCACCATAATGCC
 CTCCTGCGGTATAATATCCGTGCGCAGACGCCTGACAAGCCATCTCCCAACATGTTCTACATCGATCCTG
 AGAAAGGAGACATTGTCACTGTTGTGTACCTGCGCTGCTGGACCGAGAGACTCTGGAAAATCCCAAGTA
 TGAAGTGTATCGAGGCTCAAGATATGGCTGGACTGGATGTTGGATTAAACAGGCACGGCCACAGCCACG
 ATCATGATCGATGACAAAAATGATCACTCACAAAATTCACCAAGAAAGAGTTTCAAGCCACAGTGGAGG
 AAGGAGCTGTGGGAGTTATTGTCAATTTGACAGTTGAAGATAAGGATGACCCCGCCACAGGTCATGGAG
 GGCTGCCTACCCATCATCAACGGAAACCCGGGCAGAGCTTTGAAATCCACACCAACCCTCAAACCAAC
 GAAGGGATGCTTTCTGTTGTCAAACATTGGACTATGAAATTTCTGCCTTCCACACCCTGCTGATCAAAG
 TGGAAAATGAAGACCCACTCGTACCCGACGCTCTCTACGGCCCCAGCTCCACAGCCACCCTCCACATCAC
 TGTCTGGATGTCAACGAGGGCCAGTCTTCTACCCAGACCCATGATGGTGACCAGGCAGGAGGACCTC
 TCTGTGGCAGCGTGTGCTGACAGTGAATGCCACGGACCCGACTCCCTGCAGCATCAAACCATCAGGT
 ATTCTGTTTACAAGGACCAGCAGGTTGGCTGAATTAACCCCATCAATGGGACTGTTGACACCACAGC
 TGTGCTGGACCGTGAGTCCACATTTGTCGACAACAGCGGTACTACTGCTCTTCTTCTGGCAATTGACAGT
 GGCAACCTCCCGCTACGGGCACTGGGACTTTGCTGATAACCCTGGAGGACGTGAATGACAATGCCCGT
 TCATTTACCCACAGTAGCTGAAGTCTGTGATGATGCCAAAAACCTCAGTGTAGTCAATTTGGGAGCATC
 AGATAAGGATCTTCAACCGAATACAGATCCTTTCAAATTTGAAATCCACAACAAGCTGTTCTGATAAA
 GTCTGGAAGATCTCCAAGATCAACAATACACACGCCCTGGTAAGCCTTCTTCAAATCTGAACAAAGCAA
 ACTACAACCTGCCATCATGGTGACAGATTCAAGGAAACCCATGACGAATATCACAGATCTCAGGGT
 ACAAGTGTGCTCCTGCAGGAATTCAAAGTGGACTGCAACGCGGGGGGGCCCTGCGCTTCAGCCTGCC
 TCAGTCTGCTCCTCAGCCTCTTACGCTTAGCTTGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206068 protein sequence
Red=Cloning site Green=Tags(s)

MQPRTPLVLCVLLSQVLLLTSAEDLDCTPGFQQKVFHINQPAEFIEDQSILNLTFSDCKGNDKLRVEVSS
 PYFKVNSDGGGLVALRNITAVGKTLFVHARTPHAEDMAELVIVGGKDIQGSLODIFKFARTSPVPRQKRSI
 VVSPILIPENRQPFPRDVGVVSDSRPERSKFRLTGKGVDPQEPKGI FRINENTGSVSMTRTLDREVIAY
 YQLFVETTDVNGKTLEGPVPLEVIVIDQNDNRPIFREGPYIGHVMEGSPGTGTTVMRMTAFDADDPATDNA
 LLRYNIRRQTPDKPSPNMFYIDPEKGDIVTVVSPALLDRETLENPKYELIEAQDMAGLDVGLTGTATAT
 IMIDDKNDHSPKFTKKEFQATVEEGAVGVIVNLTVEDKDDPATGAWRAAYTIINGNPGQSFEIHTNPQTN
 EGMLSVVKPLDYEISAFHTLLIKVENEDPLVPDVSYGPSSTATVHITVLDVNEGPVFPDPMVTRQEDL
 SVGSVLLTVNATDPDSLQHTIRYSVYKDPAGWLNINPINGTVDTTAVLDRESTFVDNSVYALFLAIDS
 GNPPATGTGTLITLEDVNDNAPFIYPTVAEVCDDAKNLSVVILGASDKDLHPNTDPFKFEIHKQAVPDK
 VWKISKINNTHALVSLQLNKNANYNLPIMVTDSGKPPMTNITDLRVQVCSRNKSVDCNAAGALRFSLP
 SVLLLSLFLACL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6029_h08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001257

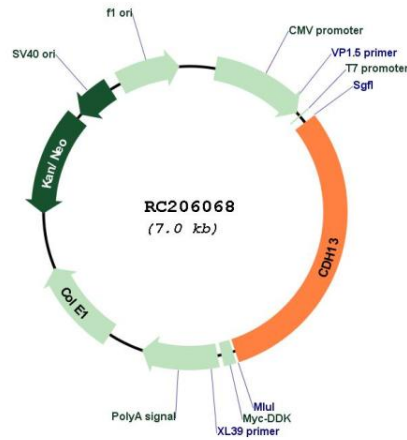
ORF Size: 2139 bp

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](#)

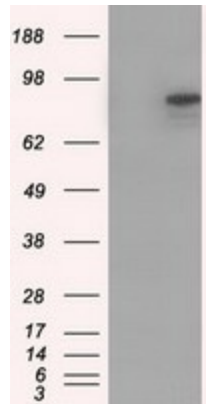
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001257.5
RefSeq Size:	4028 bp
RefSeq ORF:	2142 bp
Locus ID:	1012
UniProt ID:	P55290
Cytogenetics:	16q23.3
Domains:	CA
MW:	78.3 kDa
Gene Summary:	This gene encodes a member of the cadherin superfamily. The encoded protein is localized to the surface of the cell membrane and is anchored by a GPI moiety, rather than by a transmembrane domain. The protein lacks the cytoplasmic domain characteristic of other cadherins, and so is not thought to be a cell-cell adhesion glycoprotein. This protein acts as a negative regulator of axon growth during neural differentiation. It also protects vascular endothelial cells from apoptosis due to oxidative stress, and is associated with resistance to atherosclerosis. The gene is hypermethylated in many types of cancer. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2011]

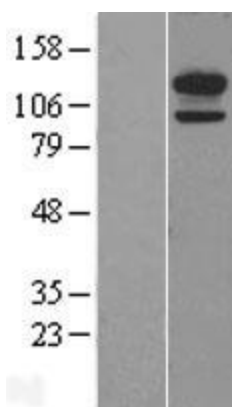
Product images:



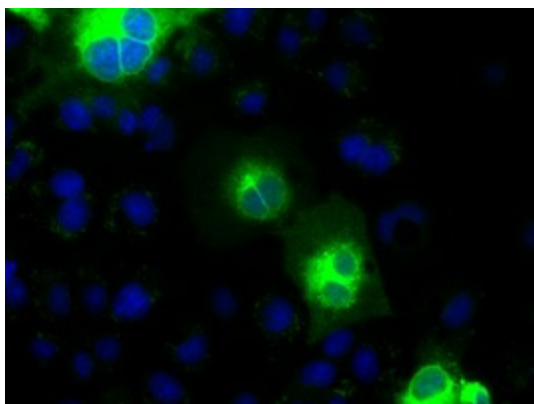
Circular map for RC206068



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CDH13 (Cat# RC206068, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CDH13 (Cat# [TA501158]). Positive lysates [LY400505] (100ug) and [LC400505] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400505]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206068 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Anti-CDH13 mouse monoclonal antibody ([TA501158]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY CDH13 (RC206068).