

## Product datasheet for **RG234160**

### CDHH (CDH13) (NM\_001220490) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDHH (CDH13) (NM_001220490) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDHH
Synonyms:	CDHH; P105
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234160 representing NM\_001220490  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGAAGGGTCACCCACAGGCACCACAGTGATGCGGATGACAGCCTTTGATGCAGATGACCCAGCCACCG  
 ATAATGCCCTCCTGCGGTATAATATCCGTCAGCAGACGCCTGACAAGCCATCTCCAACATGTTCTACAT  
 CGATCCTGAGAAAAGGAGACATTGCACTGTTGTGTACCTGCGCTGCTGGACCGAGAGACTCTGGAAAAAT  
 CCCAAGTATGAACTGATCATCGAGGCTCAAGATATGGCTGGACTGGATGTTGGATTAACAGGCACGGCCA  
 CAGCCACGATCATGATCGATGACAAAAATGATCACTACCAAAAATTCACCAAGAAAGAGTTTCAAGCCAC  
 AGTCGAGGAAGGAGCTGTGGGAGTTATTGTCAATTTGACAGTTGAAGATAAGGATGACCCACCACAGGT  
 GCATGGAGGGCTGCCTACACCATCATCAACGAAACCCCGGCAGAGCTTGAATCCACACCAACCCTC  
 AAACCAACGAAGGGATGCTTTCTGTTGTCAAACCATTGGACTATGAAATTTCTGCCTTCCACACCCTGCT  
 GATCAAAGTGAAAAATGAAGACCCTCGTACCGACGCTCCTACGGCCCCAGTCCACAGCCACCGTC  
 CACATCACTGTCTGGATGTCAACGAGGGCCAGTCTTCTACCCAGACCCATGATGGTGACCAGGCAGG  
 AGGACCTCTGTGGCAGCGTGTGCTGACAGTGAATGCCACGACCCCGACTCCCTGCAGCATAAAC  
 CATCAGGTATTCTGTTTACAAGGACCCAGCAGGTTGGTGAATATTAACCCCATCAATGGGACTGTTGAC  
 ACCACAGCTGTGCTGGACCGTGAAGTCCCATTTGTGACAAACAGCGTGTACACTGCTCTTCTCTGGCAA  
 TTGACAGTGGCAACCCTCCCGCTACGGGCACTGGGACTTTGCTGATAACCCTGGAGGACGTGAATGACAA  
 TGCCCCGTTTCAATTTACCCACAGTAGCTGAAGTCTGTGATGATGCCAAAAACCTCAGTGTAGTCATTTTG  
 GGAGCATCAGATAAGGATCTTCAACCCGAATACAGATCCTTTCAAATTTGAAATCCACAAACAAGCTGTT  
 CTGATAAAGTCTGGAAGATCTCCAAGATCAACAATACACACGCCCTGGTAAGCCTTCTTCAAATCTGAA  
 CAAAGCAAACATAACCTGCCATCATGGTGACAGATTACGGGAAACACCCATGACGAATATCACAGAT  
 CTCAGGGTACAAGTGTGCTCCTGCAGGAATCCAAAGTGGACTGCAACGCGGCAGGGCCCTGCGCTTCA  
 GCCTGCCCTCAGTCTGCTCCTCAGCCTCTCAGCTTAGCTTGTCTG

ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG234160 representing NM\_001220490  
 Red=Cloning site Green=Tags(s)

MEGSPTGTTVMRMTAFDADDPATDNALLRYNIRQQTDPDKPSNMFYIDPEKGDIVTVVSPALLDRETLEN  
 PKYELIIEAQDMAGLDVGLTGTATATIMIDDKNDHSPKFTKKEFQATVEEGAVGVIVNLTVEDKDDPTTG  
 AWRAAYTIINGNPGQSFEIHTNPQTNEGMLSVVKPLDYEISAFHTLLIKVENEDPLVPDVSYPSSSTATV  
 HITVLDVNEGPVFPDPMVTRQEDLSVGSVLLTVNATDPDSLQHQTIIRYSVYKDPAGWLNINPINGTVD  
 TTAVLDRESPPFDNSVYALFLAIDSGNPPATGTGTLITLEDVNDNAPFIYPTVAEVCDDAKNLSVVIL  
 GASDKDLHPNTDPFKFEIHKQAVPDKVVKISKINNTHALVSLQLNKNANYNLPIMVTDGSKPPMTNITD  
 LRVQVCSRNKSKVDCNAAGALRFSLSVLLLLSLFSLACL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001220490

**ORF Size:** 1377 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.

**RefSeq:** [NM\\_001220490.2](#)

**RefSeq Size:** 3819 bp

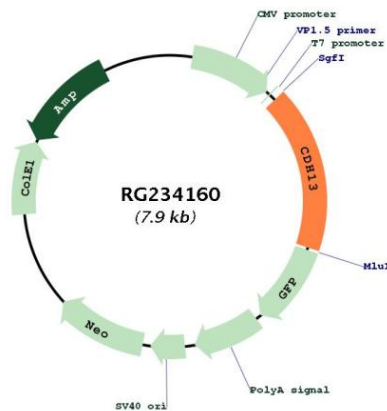
**RefSeq ORF:** 1380 bp

**Locus ID:** 1012

**Cytogenetics:** 16q23.3

**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 RG234160