

Product datasheet for **RC232051**

CDHH (CDH13) (NM_001220491) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CDHH (CDH13) (NM_001220491) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CDH13
Synonyms: CDHH; P105
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC232051 representing NM_001220491
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAGCCGAGAACTCCGCTCGTTCTGTGCGTTCTCCTGTCCCAGGTGCTGCTGCTAACATCTGCAGAAG
ATTTGGACTGCACTCCTGGATTCAGCAGAAAGTGTCCATATCAATCAGCCAGCTGAATTCATTGAGGA
CCAGTCAATTCTAACTTGACCTTCAGTGACTGTAAAGGAAACGACAAGCTACGCTATGAGGTCTCGAGC
CCATACTCAAGGTGAACAGCGATGGCGGCTTAGTTGCTCTGAGAAACATAACTGCAGTGGGCAAACTC
TGTTTCGTCATGCACGGACCCCCATGCGGAAGATATGGCAGAACTCGTGATTGTCGGGGGAAAGACAT
CCAGGGCTCCTTGAGGATATATTTAAATTTGCAAGAATTCTCCTGTCCCAAGACAAAAGAGGTCCATT
GTGGTATCTCCATTTTAAATCCAGAGAATCAGAGACAGCCTTTCCCAAGAGATGTTGGCAAGAGAACC
ACAATCTATTAACAGCGAACTTCTCTTGAATGAAGGCATTACAGCAGATTTAAATCCATGCATTACAAT
TTTAGCAATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC232051 representing NM_001220491
Red=Cloning site Green=Tags(s)

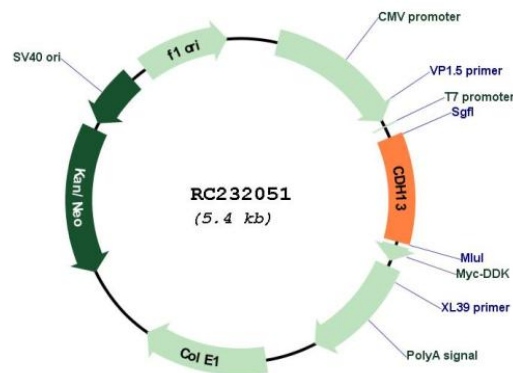
MQPRTPPLVLCVLLSQVLLLTSAEDLDCTPGFQQKVFHINQPAEFIEDQSILNLTFSDCCKGNDKLRVEVSS
PYFKVNSDGLVALRNITAVGKTLFVHARTPHAEDMAELVIVGGKDIQGSLLQDIFKFARTSPVPRQKRSI
VVSPILIPENQRQPFPRDVGKRTHNPINSELLLNNEGITADLNPCITILAI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001220491

ORF Size: 570 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_001220491.2](#)

RefSeq Size: 955 bp

RefSeq ORF: 573 bp

Locus ID: 1012

UniProt ID: [P55290](#)

Cytogenetics: 16q23.3

MW: 21.5 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]