*h*CLDN4 VersaClone cDNA

Catalog Number: RDC0080

Specifications:

Gene:	*h*CLDN4
Accession:	NP_001296
Insert size:	642bp
Package size:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

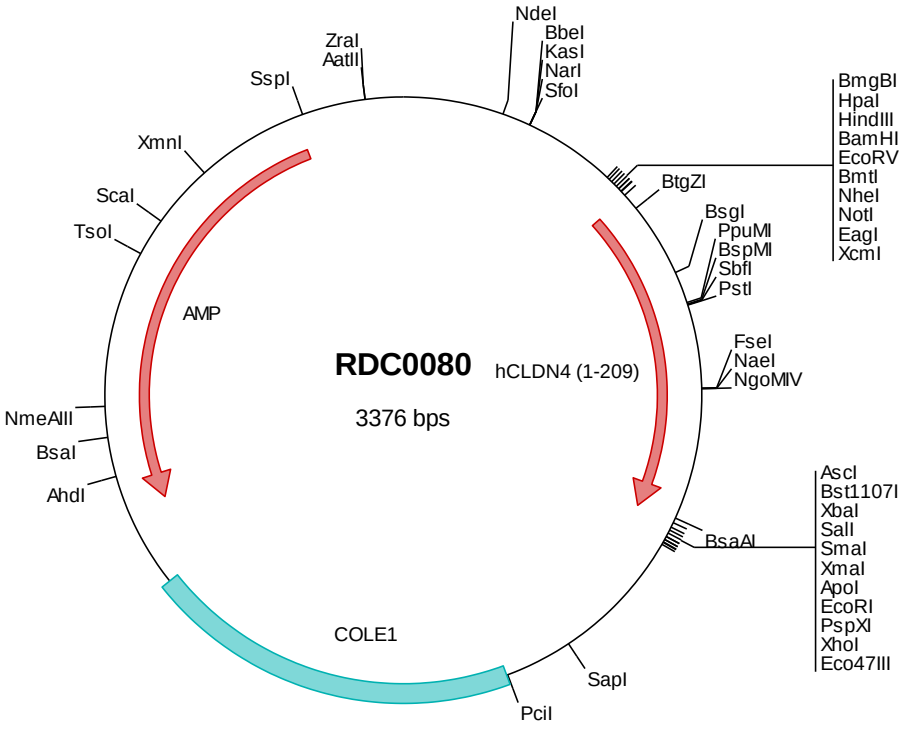
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*CLDN4 cDNA Plasmid

CLDN4 claudin 4
[*Homo sapiens*]

Also known as: CPER; CPE-R; CPETR; CPETR1; WBSCR8

Summary:
CLDN4 is a multipass membrane protein in the claudin family of tight junction proteins. It is preferentially expressed in intestinal mucosa epithelium and is involved in epithelial tissue development. Phosphorylation of CLDN4 regulates paracellular epithelial permeability. CLDN4 is deleted in Williams-Beuren syndrome, a neurodevelopmental disorder affecting multiple systems.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0080 Plasmid DNA Sequence

```
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 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggcatcca tggggctaca ggtaatgggc atcgcgctgg ccgtcctggg
 501  ctggctggcc gtcatgctgt gctgcgcgct gcccatgtgg cgcgtgacgg ccttcatcgg cagcaacatt gtcacctcgc agaccatctg ggagggccta
 601  tggatgaact gcgtggtgca gagcaccggc cagatgcagt gcaaggtgta cgactcgctg ctggcactgc cgcaggacct gcaggcggcc cgcgccctcg
 701  tcatcatcag catcatcgtg gctgctctgg gcgtgctgct gtccgtggtg gggggcaagt gtaccaactg cctggaggat gaaagcgcca aggccaagac
 801  catgatcgtg gcgggcgtgg tgttcctgtt ggccggcctt atggtgatag tgccggtgtc ctggacggcc cacaacatca tccaagactt ctacaatccg
 901  ctggtggcct ccgggcagaa gcgggagatg ggtgcctcgc tctacgtcgg ctgggccgcc tccggcctgc tgctccttgg cgggggctg ctttgctgca
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1101  agtcgacacc cggggaattc ctcgagcgct cgtctctagc ttggcgtaat catggtcata gctgtttcct gtgtgaaatt gttatccgct cacaattcca
1201  cacaacatac gagccggaag cataaagtgt aaagcctggg gtgcctaatg agtgagctaa ctcacattaa ttgcgttgcg ctcactgccc gctttccagt
1301  cgggaaacct gtcgtgccag ctgcattaat gaatcggcca acgcgcgggg agaggcggtt tgcgtattgg gcgctcttcc gcttcctcgc tcactgactc
1401  gctgcgctcg gtcgttcggc tgcggcgagc ggtatcagct cactcaaagg cggtaatacg gttatccaca gaatcagggg ataacgcagg aaagaacatg
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1601  gctcaagtca gaggtggcga aacccgacag gactataaag ataccaggcg tttcccccctg gaagctccct cgtgcgctct cctgttccga ccctgccgct
1701  taccggatac ctgtccgcct ttctcccttc gggaagcgtg gcgctttctc aatgctcacg ctgtaggtat ctcagttcgg tgtaggtcgt tcgctccaag
1801  ctgggctgtg tgcacgaacc ccccgttcag cccgaccgct gcgccttatc cggtaactat cgtcttgagt ccaacccggt aagacacgac ttatcgccac
1901  tggcagcagc cactggtaac aggattagca gagcgaggta tgtaggcggt gctacagagt tcttgaagtg gtggcctaac tacggctaca ctagaaggac
2001  agtatttggt atctgcgctc tgctgaagcc agttaccttc ggaaaaagag ttggtagctc ttgatccggc aaacaaacca ccgctggtag cggtggtttt
2101  tttgtttgca agcagcagat tacgcgcaga aaaaaaggat ctcaagaaga tcctttgatc ttttctacgg ggtctgacgc tcagtggaac gaaaactcac
2201  gttaagggat tttggtcatg agattatcaa aaaggatctt cacctagatc cttttaaatt aaaaatgaag ttttaaatca atctaaagta tatatgagta
2301  aacttggtct gacagttacc aatgcttaat cagtgaggca cctatctcag cgatctgtct atttcgttca tccatagttg cctgactccc cgtcgtgtag
2401  ataactacga tacgggaggg cttaccatct ggccccagtg ctgcaatgat accgcgagac ccacgctcac cggctccaga tttatcagca ataaaccagc
2501  cagccggaag ggccgagcgc agaagtggtc ctgcaacttt atccgcctcc atccagtcta ttaattgttg ccgggaagct agagtaagta gttcgccagt
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2701  cgagttacat gatcccccat gttgtgcaaa aaagcggtta gctccttcgg tcctccgatc gttgtcagaa gtaagttggc cgcagtgtta tcactcatgg
2801  ttatggcagc actgcataat tctcttactg tcatgccatc cgtaagatgc ttttctgtga ctggtgagta ctcaaccaag tcattctgag aatagtgtat
2901  gcggcgaccg agttgctctt gcccggcgtc aatacgggat aataccgcgc cacatagcag aactttaaaa gtgctcatca ttggaaaacg ttcttcgggg
3001  cgaaaactct caaggatctt accgctgttg agatccagtt cgatgtaacc cactcgtgca cccaactgat cttcagcatc ttttactttc accagcgttt
3101  ctgggtgagc aaaaacagga aggcaaaatg ccgcaaaaaa gggaataagg gcgacacgga aatgttgaat actcatactc ttcctttttc aatattattg
3201  aagcatttat cagggttatt gtctcatgag cggatacata tttgaatgta tttagaaaaa taaacaaata ggggttccgc gcacatttcc ccgaaaagtg
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> RDC0080 Translated Insert Sequence

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101  ggkctncled esakaktmiv agvvfllagl mvivpvswta hniiqdfynp lvasgqkrem gaslyvgwaa sgllllgggl lccncppртd kpysakysaa
201  rsaaasnyv
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