*h*CLDN3 VersaClone cDNA

Catalog Number: RDC0079

Specifications:

Gene:	*h*CLDN3
Accession:	NP_001297
Insert size:	675bp
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

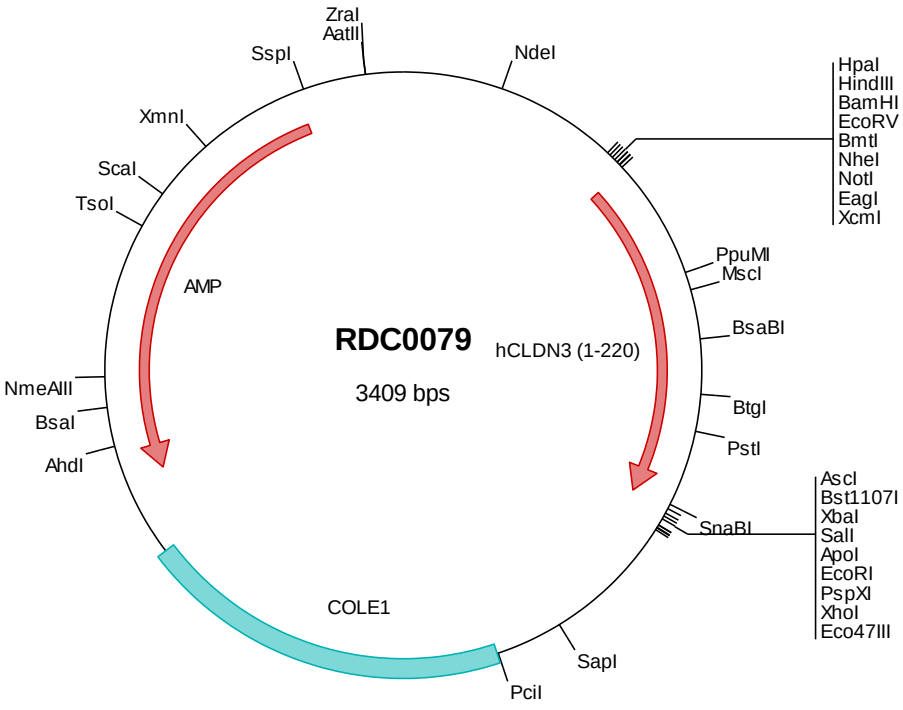
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*CLDN3 cDNA Plasmid

CLDN3 claudin 3
[*Homo sapiens*]

Also known as: RVP1; HRVP1; C7orf1; CPE-R2; CPETR2

Summary:
CLDN3 is a 23 kDa multi-pass membrane protein in the claudin family of epithelial tight junction proteins. CLDN3 is up-regulated by EGF, inflammation and a variety of epithelial cancers. CLDN3 expression is lost in the blood brain barrier during pathological disruptions of the BBB structure. CLDN3 binding to the *Clostridium perfringes* enterotoxin induces epithelial cell lysis.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0079 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 atgagcatgg gcctggagat cacgggcacc gcgctggccg tgctgggctg
 501  gctgggcacc atcgtgtgct gcgcgttgcc catgtggcgc gtgtcggcct tcatcggcag caacatcatc acgtcgcaga acatctggga gggcctgtgg
 601  atgaactgcg tggtgcagag caccggccag atgcagtgca aggtgtacga ctcgctgctg gcactgccac aggaccttca ggcggcccgc gccctcatcg
 701  tggtggccat cctgctggcc gccttcgggc tgctagtggc gctggtgggc gcccagtgca ccaactgcgt gcaggacgac acggccaagg ccaagatcac
 801  catcgtggca ggcgtgctgt tccttctcgc cgccctgctc accctcgtgc cggtgtcctg gtcggccaac accattatcc gggacttcta caaccccgtg
 901  gtgcccgagg cgcagaagcg cgagatgggc gcgggcctgt acgtgggctg ggcggcagcg gcgctgcagc tgctgggggg cgcgctgctc tgctgctcgt
1001  gtcccccacg cgagaagaag tacacggcca ccaaggtcgt ctactccgcg ccgcgctcca ccggcccggg agccagcctg ggcacaggct acgaccgcaa
1101  ggactacgta taaggcgcgc cagtatactc tagagtcgac acccggggaa ttcctcgagc gctcgtctct agcttggcgt aatcatggtc atagctgttt
1201  cctgtgtgaa attgttatcc gctcacaatt ccacacaaca tacgagccgg aagcataaag tgtaaagcct ggggtgccta atgagtgagc taactcacat
1301  taattgcgtt gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg ccaacgcgcg gggagaggcg gtttgcgtat
1401  tgggcgctct tccgcttcct cgctcactga ctcgctgcgc tcggtcgttc ggctgcggcg agcggtatca gctcactcaa aggcggtaat acggttatcc
1501  acagaatcag gggataacgc aggaaagaac atgtgagcaa aaggccagca aaaggccagg aaccgtaaaa aggccgcgtt gctggcgttt ttccataggc
1601  tccgcccccc tgacgagcat cacaaaaatc gacgctcaag tcagaggtgg cgaaacccga caggactata aagataccag gcgtttcccc ctggaagctc
1701  cctcgtgcgc tctcctgttc cgaccctgcc gcttaccgga tacctgtccg cctttctccc ttcgggaagc gtggcgcttt ctcaatgctc acgctgtagg
1801  tatctcagtt cggtgtaggt cgttcgctcc aagctgggct gtgtgcacga acccccgttc agcccgacc gctgcgcctt atccggtaac tatcgtcttg
1901  agtccaaccc ggtaagacac gacttatcgc cactggcagc agccactggt aacaggatta gcagagcgag gtatgtaggc ggtgctacag agttcttgaa
2001  gtggtggcct aactacggct acactagaag gacagtattt ggtatctgcg ctctgctgaa gccagttacc ttcggaaaaa gagttggtag ctcttgatcc
2101  ggcaaacaaa ccaccgctgg tagcggtggt ttttttgttt gcaagcagca gattacgcgc agaaaaaaag gatctcaaga agatcctttg atcttttcta
2201  cggggtctga cgctcagtgg aacgaaaact cacgttaagg gattttggtc atgagattat caaaaaggat cttcacctag atccttttaa attaaaaatg
2301  aagttttaaa tcaatctaaa gtatatatga gtaaacttgg tctgacagtt accaatgctt aatcagtgag gcacctatct cagcgatctg tctatttcgt
2401  tcatccatag ttgcctgact ccccgtcgtg tagataacta cgatacggga gggcttacca tctggcccca gtgctgcaat gataccgcga gacccacgct
2501  caccggctcc agatttatca gcaataaacc agccagccgg aagggccgag cgcagaagtg gtcctgcaac tttatccgcc tccatccagt ctattaattg
2601  ttgccgggaa gctagagtaa gtagttcgcc agttaatagt ttgcgcaacg ttgttgccat tgctacaggc atcgtggtgt cacgctcgtc gtttggtatg
2701  gcttcattca gctccggttc ccaacgatca aggcgagtta catgatcccc catgttgtgc aaaaaagcgg ttagctcctt cggtcctccg atcgttgtca
2801  gaagtaagtt ggccgcagtg ttatcactca tggttatggc agcactgcat aattctctta ctgtcatgcc atccgtaaga tgcttttctg tgactggtga
2901  gtactcaacc aagtcattct gagaatagtg tatgcggcga ccgagttgct cttgcccggc gtcaatacgg gataataccg cgccacatag cagaacttta
3001  aaagtgctca tcattggaaa acgttcttcg gggcgaaaac tctcaaggat cttaccgctg ttgagatcca gttcgatgta acccactcgt gcacccaact
3101  gatcttcagc atcttttact ttcaccagcg tttctgggtg agcaaaaaca ggaaggcaaa atgccgcaaa aaagggaata agggcgacac ggaaatgttg
3201  aatactcata ctcttccttt ttcaatatta ttgaagcatt tatcagggtt attgtctcat gagcggatac atatttgaat gtatttagaa aaataaacaa
3301  atagggggttc cgcgcacatt tccccgaaaa gtgccacctg acgtctaaga aaccattatt atcatgacat taacctataa aaataggcgt atcacgaggc
3401  cctttcgtc
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> RDC0079 Translated Insert Sequence

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101  aqctncvqdd takakitiva gvlfllaall tlvpvswsan tiirdfynpv vpeaqkremg aglyvgwaaa alqllggall ccscpprekk ytatkvvysa
201  prstgpgasl gtgydrkdyv
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