*h*CLDN1 VersaClone cDNA

Catalog Number: RDC0077

Specifications:

Gene:	*h*CLDN1
Accession:	NP_066924
Insert size:	648bp
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

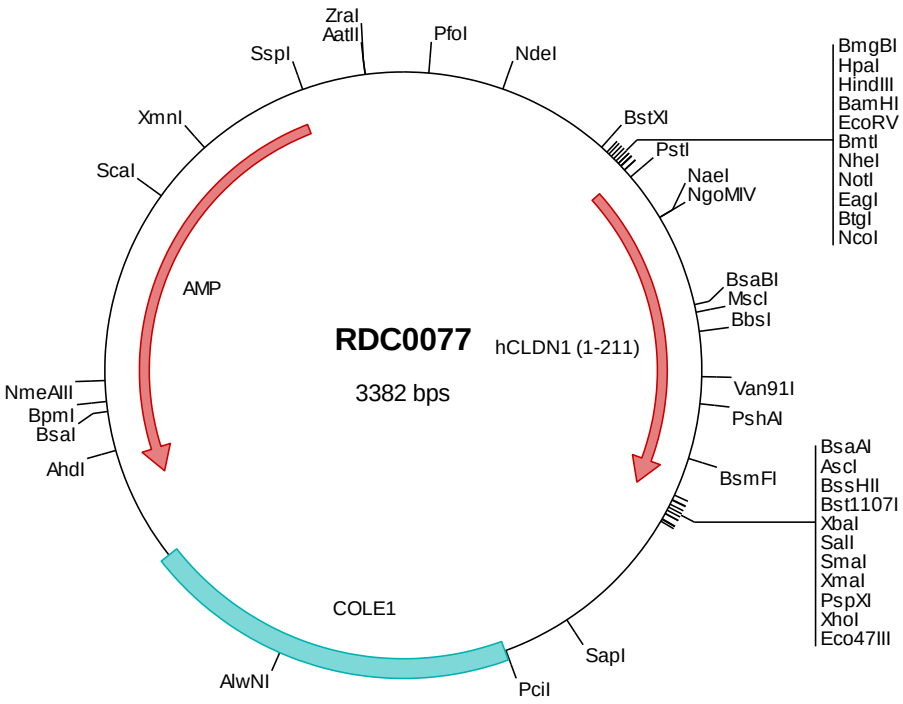
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*CLDN1 cDNA Plasmid

CLDN1 claudin 1
[*Homo sapiens*]

Also known as: CLD1; SEMP1; ILVASC

Summary:
CLDN1 is a multipass membrane protein in the Claudin family of epithelial tight junction proteins. It is expressed by epithelial cells in a wide variety of tissues, as well as, by Langerhans cells and dendritic cells. It can form homopolymers, or heteropolymers with other claudins. It also acts as a coreceptor for entry of hepatitis C virus into hepatocytes. CLDN1 may play a role in airway remodeling in asthmatic patients by means of regulation of airway smooth muscle cell proliferation, angiogenesis, and inflammation.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0077 Plasmid DNA Sequence

```
   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 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 atggctaacg cggggctgca gctgttgggc ttcattctcg ccttcctggg
 501  atggatcggc gccatcgtca gcactgccct gccccagtgg aggatttact cctatgccgg cgacaacatc gtgaccgccc aggccatgta cgaggggctg
 601  tggatgtcct gcgtgtcgca gagcaccggg cagatccagt gcaaagtctt tgactccttg ctgaatctga gcagcacatt gcaagcaacc cgtgccttga
 701  tggtggttgg catcctcctg ggagtgatag caatctttgt ggccaccgtt ggcatgaagt gtatgaagtg cttggaagac gatgaggtgc agaagatgag
 801  gatggctgtc attgggggcg cgatatttct tcttgcaggt ctggctattt tagttgccac agcatggtat ggcaatagaa tcgttcaaga attctatgac
 901  cctatgaccc cagtcaatgc caggtacgaa tttggtcagg ctctcttcac tggctgggct gctgcttctc tctgccttct gggaggtgcc ctactttgct
1001  gttcctgtcc ccgaaaaaca acctcttacc caacaccaag gccctatcca aaacctgcac cttccagcgg gaaagactac gtgtgaggcg cgccagtata
1101  ctctagagtc gacacccggg gaattcctcg agcgctcgtc tctagcttgg cgtaatcatg gtcatagctg tttcctgtgt gaaattgtta tccgctcaca
1201  attccacaca acatacgagc cggaagcata aagtgtaaag cctggggtgc ctaatgagtg agctaactca cattaattgc gttgcgctca ctgcccgctt
1301  tccagtcggg aaacctgtcg tgccagctgc attaatgaat cggccaacgc gcggggagag gcggtttgcg tattgggcgc tcttccgctt cctcgctcac
1401  tgactcgctg cgctcggtcg ttcggctgcg gcgagcggta tcagctcact caaaggcggt aatacggtta tccacagaat caggggataa cgcaggaaag
1501  aacatgtgag caaaaggcca gcaaaaggcc aggaaccgta aaaaggccgc gttgctggcg tttttccata ggctccgccc ccctgacgag catcacaaaa
1601  atcgacgctc aagtcagagg tggcgaaacc cgacaggact ataaagatac caggcgtttc cccctggaag ctccctcgtg cgctctcctg ttccgaccct
1701  gccgcttacc ggatacctgt ccgcctttct cccttcggga agcgtggcgc tttctcaatg ctcacgctgt aggtatctca gttcggtgta ggtcgttcgc
1801  tccaagctgg gctgtgtgca cgaaccccgc gttcagcccg accgctgcgc cttatccggt aactatcgtc ttgagtccaa cccggtaaga cacgacttat
1901  cgccactggc agcagccact ggtaacagga ttagcagagc gaggtatgta ggcggtgcta cagagttctt gaagtggtgg cctaactacg gctacactag
2001  aaggacagta tttggtatct gcgctctgct gaagccagtt accttcggaa aaagagttgg tagctcttga tccggcaaac aaaccaccgc tggtagcggt
2101  ggttttttgg tttgcaagca gcagattacg cgcagaaaaa aaggatctca agaagatcct ttgatctttt ctacggggtc tgacgctcag tggaacgaaa
2201  actcacgtta agggattttg gtcatgagat tatcaaaaag gatcttcacc tagatccttt taaattaaaa atgaagtttt aaatcaatct aaagtatata
2301  tgagtaaact tggtctgaca gttaccaatg cttaatcagt gaggcaccta tctcagcgat ctgtctattt cgttcatcca tagttgcctg actccccgtc
2401  gtgtagataa ctacgatacg ggagggctta ccatctggcc ccagtgctgc aatgataccg cgagacccac gctcaccggc tccagattta tcagcaataa
2501  accagccagc cggaagggcc gagcgcagaa gtggtcctgc aactttatcc gcctccatcc agtctattaa ttgttgccgg gaagctagag taagtagttc
2601  gccagttaat agtttgcgca acgttgttgc cattgctaca ggcatcgtgg tgtcacgctc gtcgtttggt atggcttcat tcagctccgg ttcccaacga
2701  tcaaggcgag ttacatgatc ccccatgttg tgcaaaaaag cggttagctc cttcggtcct ccgatcgttg tcagaagtaa gttggccgca gtgttatcac
2801  tcatggttat ggcagcactg cataattctc ttactgtcat gccatccgta agatgctttt ctgtgactgg tgagtactca accaagtcat tctgagaata
2901  gtgtatgcgg cgaccgagtt gctcttgccc ggcgtcaata cgggataata ccgcgccaca tagcagaact ttaaaagtgc tcatcattgg aaaacgttct
3001  tcggggcgaa aactctcaag gatcttaccg ctgttgagat ccagttcgat gtaacccact cgtgcaccca actgatcttc agcatctttt actttcacca
3101  gcgtttctgg gtgagcaaaa acaggaaggc aaaatgccgc aaaaaaggga ataagggcga cacggaaatg ttgaatactc atactcttcc tttttcaata
3201  ttattgaagc atttatcagg gttattgtct catgagcgga tacatatttg aatgtattta gaaaaataaa caaatagggg ttccgcgcac atttccccga
3301  aaagtgccac ctgacgtcta agaaaccatt attatcatga cattaaccta taaaaatagg cgtatcacga ggccctttcg tc
```

> RDC0077 Translated Insert Sequence

```
   1  managlqllg filaflgwig aivstalpqw riysyagdni vtaqamyegl wmscvsqstg qiqckvfdsl lnlsstlqat ralmvvgill gviaifvatv
 101  gmkcmkcled devqkmrmav iggaifllag lailvatawy gnrivqefyd pmtpvnarye fgqalftgwa aaslcllgga llccscprkt tsyptprpyp
 201  kpapssgkdy v
```