

Specifications:

Gene:	hCLDN2
Accession:	NP_065117
Insert size:	705bp
Package size:	10µg at 0.2µg/µL

hCLDN2 cDNA Plasmid

CLDN2 claudin 2
[*Homo sapiens*]

Also known as: claudin 2

Summary:

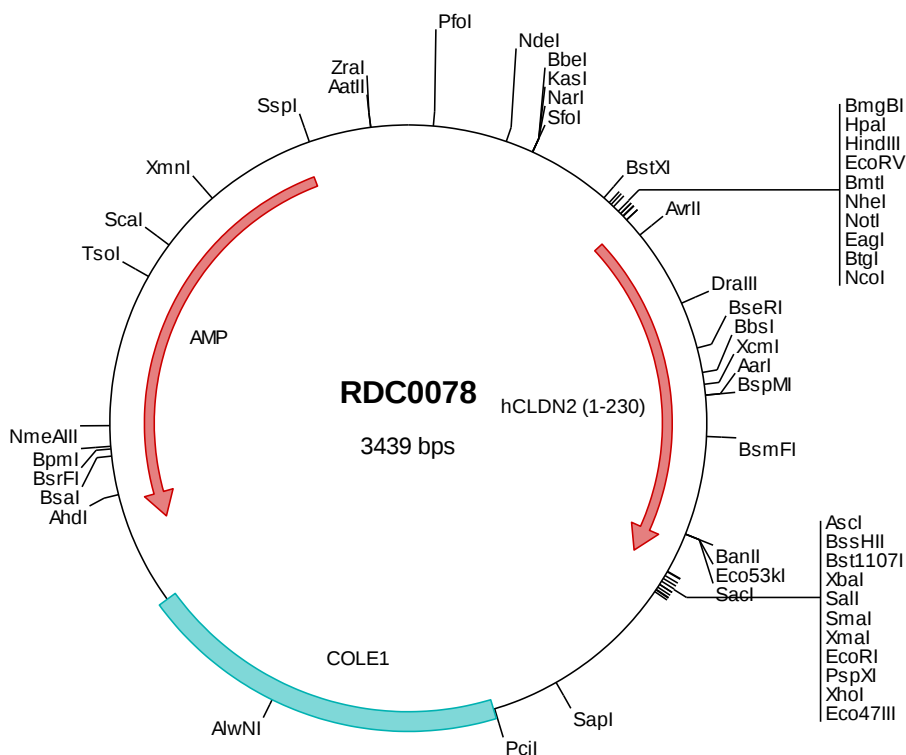
CLDN2 is a unique member of the claudin family of transmembrane proteins, as its expression is restricted to the leaky epithelium in vivo and correlates with epithelial leakiness in vitro. CLDN2 expression was significantly increased in severe form of coeliac disease in bulb and in distal duodenum. Evidence suggests potential functions of CLDN2 that are relevant to neoplastic transformation and growth. CLDN2 facilitates cell/matrix interactions by increasing the cell surface expression of $\alpha(2)\beta(1)$ - and $\alpha(5)\beta(1)$ -integrin complexes in breast cancer cells.

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.





> RDC0078 Plasmid DNA Sequence

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1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgcg tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaggg ggatgtgctg caaggcgatt aagtgggtg acgccagggt tttcccagtc acgacgttgt aaaacgacg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tccgtagcgc ggccgccacc atggcatctc ttggcctcca acttgtgggc tacatctag gccttctggg
501  gcttttgggc acaactgggtg ccattgctgt cccagctgg aaaacaagt ttatgtogg tgccagcatt gtgacagcag ttggcttctc caagggcctc
601  tggatggaat gtgccacaca cagcacaggc atcaccagc gtgacatcta tagcacctt ctgggcctgc ccgctgacat ccaggctgcc caggccatga
701  tgggtgacac cagtgcgaatc tcttccttgg cctgcattat ctctgtgtg ggcatgagat gcacagtctt ctgccaggaa tcccgagcca aagacagagt
801  ggcggtagca ggtggagttc ttttcaatct tggaggcctc ctgggattca ttctgttgc ctggaatctt catgggatcc tacgggaact ctactacca
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1301 ggggtgccta atgagttagc taactcacat taattgcgtt gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg
1401 ccaacgcgcg gggagaggcg gtttgcgtat tgggcgctct ccgcttctct cgtcactga ctgcgtgcgc ggctgcggcg agcggtatca
1501 gctcactcaa agcggttaat acggttatcc acagaaatcag gggataacgc tgacagcatc cacaaaaatc gacgctcaag tcagaggttg cgaacccgga caggactata
1601 aggcgcgctt gctggcgttt ttccatagga tccgcccccc cctcgtgcgc ttctctgttc cgacctgccc gcttaccgga tacctgtccg cctttctccc ttcgggaaagc
1701 aagataccag gcgtttccccc ctggaagctc cctcgtgcgc cgtgtgtaggt cgttcgctcc aagctgggct gtgtgcacga acccccgtt cagcccgaac
1801 gtggcgcttt ctcaatgctc acgctgtagg tatctcagtt cgtgtgtaggt ggttaagcac gacttatcgc cactggcagc agccactggt aacaggatta gcagagcgag
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2001 gtatgtaggc ggtgctacag agttcttgaa gtgggtggcct aactacggct cactagaaag gacagtattt ggtatctgcg ctctgctgaa gccagttacc
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2301 cttcacctag atccttttaa attaaaaaat aagttttaaa tcaatctaaa gtatatatga gtaaaacttg tctgacagtt accaatgctt aatcagtgag
2401 gcacctatct cagcgatctg tctatttctg tcatccatag ttgcctgact ccccgctcgt tagataaacta cgatacggga gggcttacca tctggcccca
2501 gtgctgcaat gatacccgga gacccacgct caccggctcc agatttatca gcaataaacc agccagccgg aagggccgag cgcagaagtg gtcctgcaac
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3001 gataataccg cgccacatag cagaacttta aaagtgtca tcaattgaaa acgttcttcg gggcgaaaaa tctcaaggat cttaccgctg ttgagatcca
3101 gttcgatgta acccactcgt gaccccaact gatcttcage atcttttact ttcaccagcg tttctgggtg agcaaaaaa ggaaggcaaa atgccgcgaa
3201 aaagggaata agggcgacac ggaatgttg aatactcata ctcttccttt ttcaatatta ttgaagcatt tatcagggtt attgtctcat gagcgatac
3301 atatttgaat gtattttaga aaataaacia atagggggtt cgcgcacatt tccccgaaa gtgccacctg acgtctaaga aaccattatt atcatgacat
3401 taacctataa aaataggcgt atcacgagcc cctttcgtc

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> RDC0078 Translated Insert Sequence

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1   maslglqlvg yilglglglg tlvamllpsw ktssyvgasi vtavgfskgl wmcathstg itqcdiystl lglpadiqaa gammvtssai sslaciisv
101  gmrctvfcqe srakdrvava ggvffilggl lgfipawnl hgildrfysp lvpdsmkfei gealylgiis slfsliaгии lcfcscssqrn rsnydayqa
201  qplatrsspr pgqppkvkse fnsysltgyv

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