

Product datasheet for **SC316998**

LI Cadherin (CDH17) (NM_004063) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LI Cadherin (CDH17) (NM_004063) Human Untagged Clone
Tag:	Tag Free
Symbol:	LI Cadherin
Synonyms:	CDH16; HPT-1; HPT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004063 edited
GGAAGAAAAGGACTTTTAAACCACATTTTGTGACTTACAGAAAAGGAATTTGAATAAAGAA
AACTATGATACTTCAGGCCATCTTCACTCCCTGTGCTTCTTATGCTTTATTTGGCAAC
TGGATATGGCCAAGAGGGGAAGTTTAGTGGACCCCTGAAACCCATGACATTTTCTATTTA
TGAAGGCCAAGAACCGAGTCAAATTATATTCCAGTTTAAGGCCAATCCTCCTGCTGTGAC
TTTTGAACTAACTGGGAGACAGACAACATATTTGTGATAGAACGGGAGGGACTTCTGTA
TTACAACAGAGCCTTGGACAGGGAACAAGATCTACTACAATCTCCAGTTGCAGCCCT
GGACGCTAATGGAATTATAGTGGAGGTCCAGTCCCTATCACCATAAAAGTGAAGGACAT
CAACGACAATCGACCCACGTTTCTCCAGTCAAAGTACGAAGGCTCAGTAAGGCAGAATC
TCGCCACGAAAGCCCTTCTGTATGTCAATGCCACAGACCTGGATGATCCGGCCACTCC
CAATGGCCAGCTTATTACCAGATTGTCATCCAGCTTCCCATGATCAACAATGTCATGTA
CTTTCAGATCAACAACAAACGGGAGCCATCTCTTACCAGAGGGATCTCAGGAATT
GAATCCTGCTAAGAATCCTTCTATAATCTGGTATCTCAGTGAAGGACATGGGAGGCCA
GAGTGAGAATTCCTTCAGTGATACCACATCTGTGGATATCATAGTGACAGAGAATATTTG
GAAAGCACAAAACCTGTGGAGATGGTGGAAAACCTCAACTGATCCTCACCCCATCAAAAT
CACTCAGGTGCGGTGGAATGATCCCGGTGCACAATATTCCTTAGTTGACAAAGAGAAGCT
GCCAAGATTCCCATTTTCAATTGACCAGGAAGGAGATTTACGTGACTCAGCCCTTGA
CCGAGAAGAAAAGGATGCATATGTTTTTATGCAGTTGCAAAGGATGAGTACGGAAAACC
ACTTTCATATCCGCTGGAATTCATGTAAGTTAAAGATATTAATGATAATCCACCTAC
ATGTCCGTCAACAGTAACCGTATTTGAGGTCCAGGAGAATGAACGACTGGGTAACAGTAT
CGGGACCCCTTACTGCACATGACAGGGATGAAGAAAATACTGCCAACAGTTTTCTAAACTA
CAGGATTTGTGGAGCAAACCTCCAAACTTCCCATGGATGGACTCTTCTAATCCAAACCTA
TGCTGGAATGTTACAGTTAGCTAAACAGTCTTGAAGAAGCAAGATACTCCTCAGTACAA
CTTAACGATAGAGGTGTCTGACAAAGATTTCAAGACCCTTTGTTTTGTGCAAATCAACGT
TATTGATATCAATGATCAGATCCCCATCTTTGAAAAATCAGATTATGGAAACCTGACTCT
TGCTGAAGACACAAACATTGGGTCCACCATCTTAACCATCCAGGCCACTGATGCTGATGA
GCCATTTACTGGGAGTTCTAAAATCTGTATCATATCATAAAGGGAGACAGTGAGGGACG



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CCTGGGGTTGACACAGATCCCCATACCAACACCGGATATGTCATAATTA AAAAGCCTCT
 TGATTTTGAACAGCAGCTGTTTCCAACATTGTGTTCAAAGCAGAAAAATCCTGAGCCTCT
 AGTGTGGTGTGAAGTACAATGCAAGTTCTTTTGCCAAGTTCACGCTTATTGTGACAGA
 TGTGAATGAAGCACCTCAATTTTCCAACACGTATTCCAAGCGAAAGTCAGTGAGGATGT
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 CTTTAGTGTGGCTCCATTGGACAGAGAAGCCGGAAGTCCATATCGGGTACAAGTGGTGGC
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 CAGCTCACTGCAACCTCCGCCTCCTGGGTTACATGATTCTCCTGCCTCAGCTTCCTAAG
 TAGCTGGGTTTACAGGCACCCACCACCATGCCAGCTAATTTTTGTATTTTTAATAGAGA
 CGGGGTTTCGCCATTTGGCCAGGCTGGTCTTGAACCTCTGACGTCAAGTGTGCTGCCTGC
 CTTGGTCTCCCAATACAGGCATGAACCACTGCACCCACCTACTTAGATATTTTCATGTGCT
 ATAGACATTAGAGAGATTTTTTCAATTTTTCCATGACATTTTTCTCTGCAAATGGCTTA
 GCTACTTGTGTTTTTCCCTTTTGGGGCAAGACAGACTCATTAAATATTCTGTACATTTTT
 TCTTTATCAAGGGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004063 unedited
 GACACTTGTATACGACTCTATAGGGCGCCGCGAATTCGGCACCAGGAAGAAAAGGACT
 TTTAACCACCATTTTGTGACTTACAGAAAGGAATTTGAATAAAGAAAACATGATACTTC
 AGGCCATCTTACTCCCTGTGTCTTCTTATGCTTTATTTGGCAACTGGATATGGCCAAG
 AGGGGAAGTTTAGTGACCCCTGAAACCCATGACATTTTCTATTTATGAAGGCCAAGAAC
 CGAGTCAAATTATATTCCAGTTAAGGCCAATCCTCCTGCTGTGACTTTTGAACAACTG
 GGGAGACAGACAACATATTTGTGATAGAACGGGAGGGACTTCTGTATTACAACAGAGCCT
 TGGACAGGAAACAAGATCTACTACAATCTCCAGTTGCAGCCCTGGACGCTAATGGAA
 TTATAGTGGAGGGTCCAGTCCCTATCACCATAAAAGTGAAGGACATCAACGACAATCGAC
 CCACGTTTCTCCAGTCAAAGTACGAAGGCTCAGTAAGGCAGAACTCTCGCCAGGAAAGC
 CCTTCTTGATGTCAATGCCACAGACCTGGATGATCCGGCCACTCCAATGGCCAGCTTT
 ATTACCAGATTGTCATCCAGCTTCCCATGATCAACAATGTCATGTACTTTAGATCAACA
 ACAAAAACGGGAGCCATCTCTTACCCGAGAGGGATCTCAGAATTGAATCCTGCTAAGAA
 TCCTTCTATAATCTGGTGTCTCAGTGAAGGACATGGGAGCCAGAGTGAGAATTCCTTC
 AGTGATACCACATCTGTGGATATCATAGTGACAGAGATATTTGAAAAGCACCAAACCTGT
 GAGATGTGAAACTCACTGATCCTCACCCATCAAATCACTCAGTGGCGGTGGATGATCCC
 GGTGCACAATATCCTAGTTGACAAAGAGAAGCCTGCCAGGATCCCATTTCATTTGAC
 CAGG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004063 unedited CGCGATGTCACTTCAGGGCCGGAGAGGCACTGGGGAGGGGTCACAGGGATGCCACCCGGG ATCTGTTCAAGAAACAGCTATGACCCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTTGATAAAAAAAAAATGTACAAAATATTTA ATGATTCTGTCTTGCCCCAAAAGGAAAAACACAATTACCTAACCTTTTGAAAAAGGA AAAATGTCATGGAAAAATGAAAAATCTCTAATGTCTATAGCACATGAAATATCTAATT AGGGGGTGCAGGGGTTTCATGCCTGTTTTGGGAAACCAAGGCAGGCAAATCACTTGACGT CAGGAGTTCAAAACCACCTGGCCAAATGGCGAACCCCGTCTCTATTAATAACAAAA ATTAGCTGGGCATGGGGGGGGTGCCTGTAAACCCAGCTACTTAGGAAGCTGAGGCAGGA AAATCATGTGAACCCAGGAGGCGGAGGTTGCACTGAGCTGGGATCACACCACTGTACTCC AGCCTGGGCGACAGAGCAAGACTCCCCCTAAAAAAGAAATATTTAGCAAATATTAAGG ACAAGAGGGAATATCTGTTTAAAAAATTATAATGCACGTTAGATGAAAAGTAATAGGATG AGATGGTTGTTGCTGAAATAGCACTTGCTATATAAATTCAAACATTCCTTTCAAATTCA GCTTCTCAGAGGTTTGACTTCAGATGCTTGAGCACTTTCAACATTATCTTTGCCTTTATC CTTCTTTATGCGGATAAACCAACTGCTAAAATAATACCAATCACCAGAGGGTGGTCAGC AGTATACAACATGCATGCCCCAGTGGGTATCCAGTCTGGTGACTGCTGCGAACACTCTCC AACACTGCAGATGTACTGTAAGAACATGCTCAGGTGGCCGA
Restriction Sites:	NotI-NotI
ACCN:	NM_004063
Insert Size:	3100 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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_004063.2 , NP_004054.2
RefSeq Size:	3697 bp
RefSeq ORF:	2499 bp
Locus ID:	1015
UniProt ID:	Q12864

Cytogenetics: 8q22.1

Protein Families: Transmembrane

Gene Summary: This gene is a member of the cadherin superfamily, genes encoding calcium-dependent, membrane-associated glycoproteins. The encoded protein is cadherin-like, consisting of an extracellular region, containing 7 cadherin domains, and a transmembrane region but lacking the conserved cytoplasmic domain. The protein is a component of the gastrointestinal tract and pancreatic ducts, acting as an intestinal proton-dependent peptide transporter in the first step in oral absorption of many medically important peptide-based drugs. The protein may also play a role in the morphological organization of liver and intestine. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2009]
Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.