

Product datasheet for **SC321565**

Claudin 4 (CLDN4) (NM_001305) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Claudin 4 (CLDN4) (NM_001305) Human Untagged Clone
Tag:	Tag Free
Symbol:	Claudin 4
Synonyms:	CPE-R; CPER; CPETR; CPETR1; hCPE-R; WBSCR8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_001305.3
 GGCAGCTGTCGGCTGGAAGGAACTGGTCTGCTCACACTTGGCTGGCTTGCATCAGGACT
 GGCTTTATCTCCTGACTCAGGTGCAAAGGTGCACTCTGCGAACGTTAAGTCCGTCCCA
 GCGCTTGAATCTACGGCCCCACAGCCGGATCCCCTCAGCCTTCCAGGTCCTCAACT
 CCGCGGACGCTGAACAATGGCTCCATGGGGCTACAGTAATGGGCATCGCGTGGCCGT
 CCTGGGCTGGCTGGCCGTATGCTGTGCTGCGCGCTGCCCATGTGGCGGTGACGGCCTT
 CATCGGCAGCAACATTGTACCTCGCAGACCCTCTGGGAGGGCCTATGGATGAAGTGGCT
 GGTGCAGAGCACCGGCCAGATGCAGTGAAGGTGTACGACTCGCTGCTGGCACTGCCGCA
 GGACCTGCAGGGCGCCCGCCCTCGTCATCATCAGCATCATCGTGGCTGCTCTGGGCGT
 GCTGCTGTCCGTGGTGGGGGCAAGTGTACCAACTGCCTGGAGGATGAAAGCGCCAAGGC
 CAAGACCATGATCGTGGCGGGCGTGGTGTCTCTGTTGGCCGGCCTTATGGTGATAGTGCC
 GGTGCTCTGGACGGCCACAACATCATCAAGACTTCTACAATCCGCTGGTGGCCTCCGG
 GCAGAAGCGGGAGATGGGTGCCTCGCTCTACGTCGGCTGGGCCGCTCCGGCCTGCTGCT
 CCTTGGCGGGGGCTGCTTGTGCAACTGTCCACCCGCACAGACAAGCCTTACTCCG
 CAAGTATTCTGCTGCCCGCTCTGCTGCTGCCAGCAACTACGTGTAAGGTGCCACGGCTCC
 ACTCTGTTCTCTCTGCTTGTCTTCCCTGGACTGAGCTCAGCGCAGGCTGTGACCCCA
 GGAGGGCCCTGCCACGGGCCACTGGCTGCTGGGACTGGGACTGGGCAGAGACTGAGCC
 AGGCAGGAAGGCAGCAGCCTTACGCTCTCTGGCCACTCGGACAACCTCCCAAGGCCGC
 CTCCTGTAGCAAGAACAGAGTCCACCCTCCTCTGGATATTGGGGAGGGACGGAAGTGAC
 AGGGTGTGGTGGTGGAGTGGGGAGCTGGCTTCTGCTGGCCAGGATGGCTTAACCTGACT
 TTGGGATCTGCCTGCATCGGTGTTGGCCACTGTCCCAATTTACATTTTCCCCTCTGTC
 TGCTGCTCCTCTCTGTTGCGGGTAGGCCTTGATACACTCTGGGACTGTGCCTTGCT
 CACCGAAACCCGCGCCAGGAGTATGGCTGAGGCCTTGCCACCCACTGCCTGGGAAGT
 GCAGAGTGGATGGACGGGTTTAGAGGGGAGGGGCGAAGGTGCTGTAACAGGTTTGGGCA
 GTGGTGGGGAGGGGCCAGAGAGGGCGCTCAGGTTGCCAGCTCTGTGGCTCAGGACT
 CTCTGCCTCACCCGCTTACAGCCAGGGCCCTGGAGACTGATCCCTCTGAGTCTCTGC
 CCCTTCAAGGACACTAATGAGCCTGGGAGGGTGGCAGGGAGGAGGGGACAGCTTACCC
 TTGGAAGTCTGGGGTTTTCTCTTCTTCTTTGTGGTTTCTGTTTTGTAATTTAAGAA
 GAGCTATTCATCACTGTAATTATTATTATTTCTACAATAAATGGGACCTGTGCACAGGA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001305

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:	<u>NM_001305.3</u> , <u>NP_001296.1</u>
RefSeq Size:	1846 bp
RefSeq ORF:	630 bp
Locus ID:	1364
UniProt ID:	<u>O14493</u>
Cytogenetics:	7q11.23
Domains:	PMP22_Claudin
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
Gene Summary:	The protein encoded by this intronless gene belongs to the claudin family. Claudins are integral membrane proteins that are components of the epithelial cell tight junctions, which regulate movement of solutes and ions through the paracellular space. This protein is a high-affinity receptor for Clostridium perfringens enterotoxin (CPE) and may play a role in internal organ development and function during pre- and postnatal life. This gene is deleted in Williams-Beuren syndrome, a neurodevelopmental disorder affecting multiple systems. [provided by RefSeq, Sep 2013]