

Product datasheet for MC208287

Cldn4 (NM_009903) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cldn4 (NM_009903) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cldn4
Synonyms:	Cep-r; Cpe; Cpet; Cpetr; Cpetr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208287 representing NM_009903 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCGTCTATGGGACTACAGGTCCTGGGAATCTCCTTGGCAGTCCTGGGCTGGCTGGGGATCATCCTGA
GTTGTGCGCTCCCATGTGGCGGGTGACCGCCTTCATCGGCAGCAACATCGTCACGGCACAGACCAGCTG
GGAGGGCCTCTGGATGAAGTGCCTGGTGCAGAGCACAGGTCAGATGCAGTGCAAGATGTACGACTCGATG
CTCGCCCTGCCGAGGACCTGCAGGCCGCCGAGCCCTTATGGTCATCAGCATCATCGTGGGTGCTCTGG
GGATGCTTCTCTCAGTGGTAGGGGGCAAGTGCACCAACTGCATGGAGGACGAGACCGTCAAGGCCAAGAT
CATGATCACCGCCGAGCCGTGTTTCATCGTGGCAAGCATGCTGATTATGGTGCCCGTGCTCTGGACCGCT
CACAACGTCATCCGCGACTTCTACAACCTATGGTGGCTTCCGGGCAGAGAGGAAATGGGGGCCCTCGC
TTTACGTCGGCTGGGCGGCCTCCGGGCTGCTGCTCCTGGGAGGAGGCCTCCTCTGCTGCAGTTGCCACAC
TCGTAGCAACGACAAGCCCTACTCGGCCAAGTACTCCGCCGCCGCTCTGTCCCCGCCAGCAACTATGTG
TAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3434_a05.zip

Restriction Sites: SgfI-MluI

ACCN: NM_009903

Insert Size: 633 bp



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OTI Disclaimer:	<p>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.</p> <p>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</p>
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_009903.2 , NP_034033.1
RefSeq Size:	1827 bp
RefSeq ORF:	633 bp
Locus ID:	12740
UniProt ID:	Q35054
Cytogenetics:	5 74.9 cM
Gene Summary:	<p>This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal transductions. The protein encoded by this gene is a high-affinity receptor for clostridium perfringens enterotoxin (CPE) produced by the bacterium Clostridium perfringens, and the interaction with CPE results in increased membrane permeability by forming small pores in plasma membrane. This protein augments alveolar epithelial barrier function and is induced in acute lung injury. It is highly expressed in pancreatic and ovarian cancers. [provided by RefSeq, Aug 2010]</p>