

## Product datasheet for **RR202405**

### Cldn15 (NM\_001107135) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cldn15 (NM\_001107135) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cldn15  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR202405 representing NM\_001107135  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGATAGCTGTGGAGACCTTTGGTTTCTTCATGTGACCCCTGGGACTGCTGATGCTGGGGGTGACCC  
 TTCCAAACAGCTACTGGAGAGTGTCTACCGTCCATGGGAACGTCATCACCCTAACACCATCTTCGAGAA  
 CCTGTGGTACAGCTGTCCACCGACTCCCTGGGAGTCTCCAAGTCTGGGACTTCCCGTCCATGCTGGCC  
 CTCTCTGGCTATGTCCAGGGCTGCCGAGCTCTCATGATCACCGCCATCCTCTGGGCTTCCCTGGGCTCT  
 TTCTAGGCATGGTGGGGTCCGCTGCACCAACGTGGGCAACATCGACCTCTCCAGAAAGGCCAAGCTGCT  
 GGCCATTGCAGGGGCTTCCACATACTTGTGGAGCCTGTGGCATGGTTGCTATCTCATGGTATGCTGTC  
 AACATCACCACCGACTTCTCAACCCCTGTATGTTGGAACCAAGTATGAACTGGGCTCTGCCCTTACT  
 TGGGCTGGAGCGCTCTCTGCTCTCCATCCTGGGCGCATCTGTGCTTCTCCACCTGCTGCTGTGACTC  
 CAAGGAGGACCCAGCCACCAGGGTGGGACTTCCCTACAAGCCTTCTACGGTTGTGACAGCCCGAGCCACT  
 TCCGATGAAAGTGACGTACGCTTTGGTAAATATGGCAAAAATGCCTACGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR202405 representing NM\_001107135  
 Red=Cloning site Green=Tags(s)

MSIAVETFGFFMSALGLLMLGVTL PNSYWRVSTVHGNVITNTIFENLWYSCATDSLGVSNCWDFPMSLA  
 LSGYVQGRALMITAILLGLFLGLMVGLRCTNVGNIDL SRKAKLLAIAGAFHILAGACGMVAISWYAV  
 NITTDFFNPLYVGTKYELGSAL YLGWSASLLSILGGICVFSTCCCD SKEDPATRVGLPYKPSTVVTARAT  
 SDESDFSGKYGKNAYV

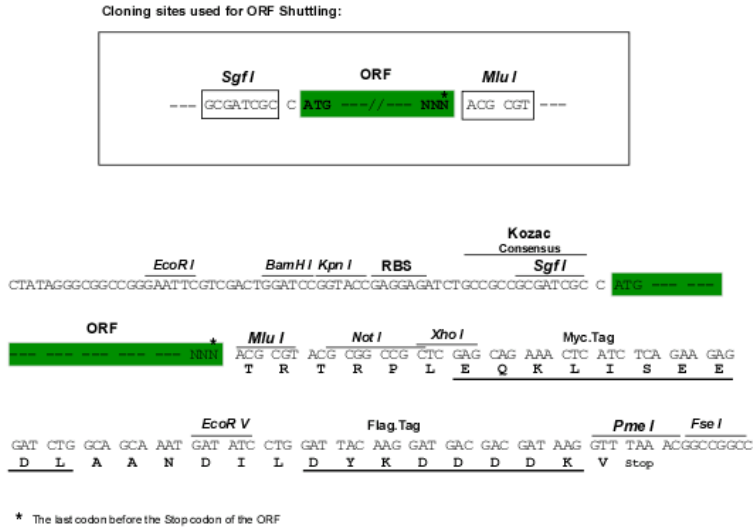
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV



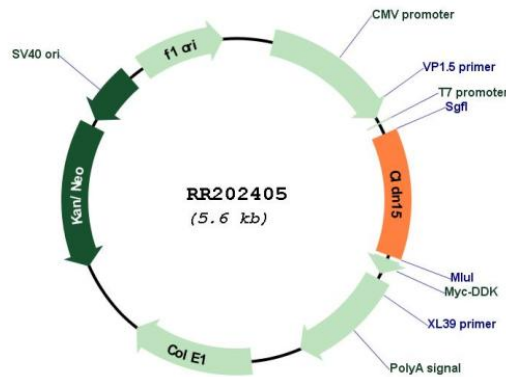
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001107135

ORF Size: 681 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001107135.2, NP_001100605.1</u>
<b>RefSeq Size:</b>	684 bp
<b>RefSeq ORF:</b>	684 bp
<b>Locus ID:</b>	304388
<b>UniProt ID:</b>	<u>D3ZQJ0</u>
<b>Cytogenetics:</b>	12q12
<b>MW:</b>	24.3 kDa
<b>Gene Summary:</b>	Claudins function as major constituents of the tight junction complexes that regulate the permeability of epithelia. While some claudin family members function as impermeable barriers, others mediate the permeability to ions and small molecules. Often, several claudin family members are coexpressed and interact with each other, and this determines the overall permeability. CLDN15 forms tight junctions that mediate the paracellular transport of small monovalent cations along a concentration gradient, due to selective permeability for Na(+), Li(+) and K(+) ions, but selects against Cl(-) ions. Plays an important role in paracellular Na(+) transport in the intestine and in Na(+) homeostasis. Required for normal Na(+)-dependent intestinal nutrient uptake (By similarity).[UniProtKB/Swiss-Prot Function]