

Product datasheet for **RN202405**

Cldn15 (NM_001107135) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cldn15 (NM_001107135) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cldn15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN202405 representing NM_001107135 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCGATAGCTGTGGAGACCTTTGGTTTCTTCATGTCAGCCCTGGGACTGCTGATGCTGGGGGTGACCC
TTCCAAACAGCTACTGGAGAGTGTCTACCGTCCATGGGAACGTCATCACCCTAACACCATCTTCGAGAA
CCTGTGGTACAGCTGTGCCACCGACTCCCTGGGAGTCTCCAATGCTGGGACTTCCCGTCCATGCTGGCC
CTCTCTGGCTATGTCCAGGGCTGCCGAGCTCTCATGATCACC GCCATCCTCTGGGCTTCCTGGGCCTCT
TTCTAGGCATGGTGGGGCTCCGCTGCACCAACGTGGGCAACATCGACCTCTCCAGAAAGGCCAAGCTGCT
GGCCATTGCAGGGGCCTTCCACATACTTGTGGAGCCTGTGGCATGGTTGCTATCTCATGGTATGCTGTC
AACATCACCACCGACTTCTTCAACCCCTGTATGTTGGAACCAAGTATGAACTGGGCTCTGCCCTTACT
TGGGCTGGAGCGCCTCTCTGCTCTCCATCCTGGGCGGCATCTGTGTCTTCTCCACCTGCTGCTGTGACTC
CAAGGAGGACCCAGCCACCAGGGTGGGACTTCCCTACAAGCCTTCTACGGTTGTGACAGCCCGAGCCACT
TCCGATGAAAGTGACGTACGCTTTGGTAAATATGGCAAAATGCCTACGT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001107135
Insert Size:	684 bp


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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).
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_001107135.2, NP_001100605.1</u>
RefSeq Size:	684 bp
RefSeq ORF:	684 bp
Locus ID:	304388
UniProt ID:	<u>D3ZQJ0</u>
Cytogenetics:	12q12
Gene Summary:	<p>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]</p>