

## Product datasheet for **RR209427**

### Cldn18 (NM\_001014096) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cldn18 (NM_001014096) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cldn18
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209427 representing NM_001014096 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCACCACCACGTGCCAGGTGGTAGGGCTCCTCCTGTCCCTCCTGGGTCTGGCCGGCTGCATAGCCG  
CCACTGGAATGGACATGTGGAGCACTCAGGACCTGTATGATAACCCAGTCACCTCCGTGTTCCAGTATGA  
AGGGCTCTGGAGGAGTTGCGTGAACAGAGCTCGGGTTCAGTGTGCCGCCATACTTCACCATCCTG  
GGCCTTCCAGCCATGCTGCAAGCAGTGCAGCCCTGATGATCGTGGGCATTGTTCTGGGGTTCATCGGCA  
TCCTGGTGTCCATCTTCGCCCTGAAGTGCATTGCGATTGGCAGCATGGATGACTCTGCCAAGCCAAGAT  
GACTCTGACTTCTGGGATTATGTTTCATCATCTCAGGAGTCTGTGCAATCATTGGTGTGTCTGTGTTTGC  
AACATGCTGGTAACCAACTTCTGGATGTCCACGGCCAACATGTACAGCGGCATGGGTGGGATGGTGCAGA  
CCGTTCCAGACCAGGTACTTTTTGGTGCAGCTCTGTTTGTGGCTGGATCGTGGAGGCCTCACACTAAT  
TGGAGGTGTGATGATGTGATTGCTTCCCGTGGCCTGACTCCTGATGACCGCAACTTCAAAGCCGTGTC  
TACCACGCTTCTGGCCAAAATGTTGCCTATAAGCCTGGAGGCTTAAAGGCCAGCACTGGCTTTGGGTCCA  
ACGCCAGAAACAAGAAGATATGATGGGGTGCCTGCACAGAAGACGATGAACAATCTCATCCTACCAA  
GTACGACTATGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR209427 representing NM\_001014096  
 Red=Cloning site Green=Tags(s)

MATTTTCQVVGLLLSLLGLAGCIAATGMDMWSTQDLYDNPVTSVVFQYEGLWRSCVQSSGFTECRPYFTIL  
 GLPAMLQAVRALMIVGIVLVGIVIGILVSIFALKCIRIGSMDDSAKAKMTL TSGIMFIIISGVCIIIGVSVFA  
 NMLVTNFMWSTANMYSMGMGMVQTVQTRYTFGAALFVGIAGGL TLIGGVMMCIACRGLTPDDRNFKAVS  
 YHASKQNVAYKPGGFKASTGFGSNARNKKIYDGGARTEDDEQSHPTKYDYV

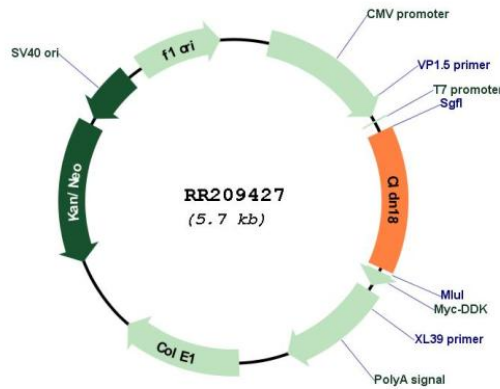
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001014096

**ORF Size:** 783 bp

**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](mailto: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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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\\_001014096.1](#), [NP\\_001014118.1](#)

**RefSeq Size:** 1574 bp

**RefSeq ORF:** 786 bp

**Locus ID:** 315953

**Cytogenetics:** 8q31

**MW:** 27.9 kDa