

Product datasheet for **MR225401**

Cldn14 (NM_019500) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cldn14 (NM_019500) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cldn14
Synonyms: AI851731
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR225401 representing NM_019500
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGCACAGCGGTCCAGCTCCTAGGCTTCTGCTTAGCTTCTGGGCATGGTAGGAACGCTCATCA
CCACCATCCTGCCACACTGGCGGAGGACGGCCATGTGGGCACCAACATCCTGACTGCCGTATCCTACCT
GAAGGGACTGTGGATGGAATGTGTGTGGCACAGCACAGGCATCTACCAGTGCAGATCTACCGCTCACTG
CTGGCGCTGCCCCGGGACTTGCAGGCCGCCGGCGCTCATGGTCATCTCCTGCCTGTTGTCGGGCATGG
CCTGCGCCTGCGCAGTAGTGGGCATGAAGTGCACACGCTGCGCCAAAGGCACACCCGCCAAGACCACCTT
TGCAGTGTGGGGGGCGGCTCTTCCTGCTGGCCGGCCTGCTGTGCATGGTGGCCGTGTCCTGGACCAGG
AATGACGTGGTGCAGAATTTTTATAACCCGCTGCTGCCAGTGGCATGAAGTTTAAATCGGCCAGGCC
TGTACCTGGGCTTCATCTCCTCATCCCTGTCTCATCGGGGACCCCTGCTCTGCTTATCCTGCCAGGA
CGAGGCCCCCTACAGACCCTACCCGCCAGTCCAGGGCCGGAGCTACCACCAGGCTACCGCCCTGCC
TACCGCCACCAGCGCCTACAAGGACAACCGTGCCTCGGTGACCTCAGCCGCGCACAGTGGGTACA
GGCTGAATGACTACGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225401 representing NM_019500
Red=Cloning site Green=Tags(s)

MASTAVQLLGFLLSFLGMVGLITTTILPHWRRTAHVGTNILTAVSYLKGLWMECVHSTGIYQCQIYRSL
 LALPRDLQAARALMVISCLLSGMACACAVVGMKCTRCAKGTPAKTTFAVLGGALFLLAGLLCMVAVSWTT
 NDVVQNFYNPLLPSPGMKFEIGQALYLGFISSSLSIGGTLLCLSCQDEAPYRPPYPPQSRAGATTTATAPA
 YRPPAAAYKDNRAPSVTSAAHSGYRLNDYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9030_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019500

ORF Size: 717 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.

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_019500.4](#), [NP_062373.3](#)

RefSeq Size: 1475 bp

RefSeq ORF: 720 bp

Locus ID: 56173

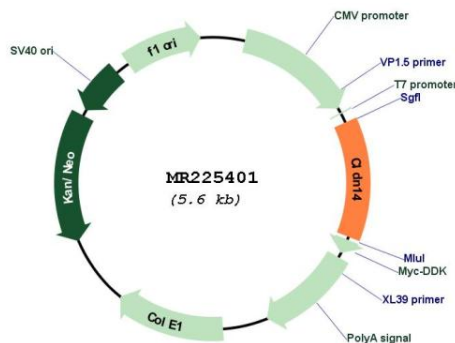
UniProt ID: [Q9Z0S3](#)

Cytogenetics: 16 C4

MW: 26.1 kDa

Gene Summary: This gene encodes a member of the claudin family of tight junction proteins. The encoded protein is an integral membrane protein that may function in maintaining apical membrane polarization in tight junctions located between outer hair cells and supporting cells. Loss of function of this gene is associated with hearing problems. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

Product images:



Circular map for MR225401