

## Product datasheet for **RC228772**

### Claudin 14 (CLDN14) (NM\_001146077) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Claudin 14 (CLDN14) (NM_001146077) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Claudin 14
Synonyms:	DFNB29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228772 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAGCACGGCCGTGCAGCTTCTGGGCTTCTGCTCAGCTTCTGGGCATGGTGGGCACGTTGATCA  
CCACCATCCTGCCGACTGGCGGAGGACAGCGCACGTGGGCACCAACATCCTCACGGCCGTCTACCT  
GAAAGGGCTCTGGATGGAGTGTGTGGCACAGCACAGGCATCTACCAGTGCCAGATCTACCGATCCCTG  
CTGGCGCTGCCCCAAGACCTCCAGGCTGCCCGGCCCTCATGGTCATCTCCTGCCTGCTCTCGGGCATAG  
CCTGCGCCTGCGCCGTATCGGGATGAAGTGCACGCGCTGCGCCAAGGGCACACCCGCCAAGACCACCTT  
TGCCATCCTCGGCGGCACCCTTTCATCCTGGCCGGCCTCCTGTGCATGGTGGCCGTCTCCTGGACCACC  
AACGACGTGGTGCAGAACTTCTACAACCCGCTGCTGCCAGCGGCATGAAGTTTGAGATTGGCCAGGCC  
TGTACCTGGGCTTCATCTCCTCGTCCCTCTCGCTCATTGGTGGCACCCCTGCTTTGCCTGTCTGCCAGGA  
CGAGGCACCCTACAGGCCCTACCAGGCCCGCCAGGGCCACCACGACCACTGCAAAACCCGCACCTGCC  
TACCAGCCACCAGCTGCCTACAAAGACAATCGGGCCCCCTCAGTGACCTCGGCCACGCACAGCGGTACA  
GGCTGAACGACTACGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

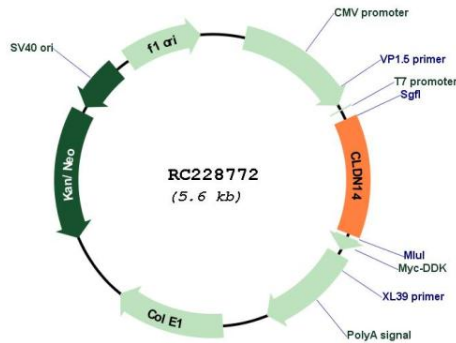


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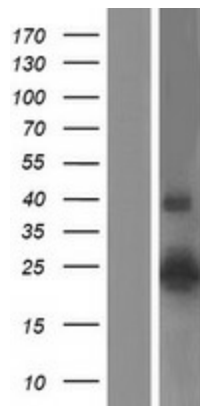


<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and 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><a href="#">NM_001146077.1</a></u> , <u><a href="#">NP_001139549.1</a></u>
<b>RefSeq Size:</b>	1469 bp
<b>RefSeq ORF:</b>	720 bp
<b>Locus ID:</b>	23562
<b>UniProt ID:</b>	<u><a href="#">O95500</a></u>
<b>Cytogenetics:</b>	21q22.13
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
<b>MW:</b>	25.7 kDa
<b>Gene Summary:</b>	<p>Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. The encoded protein also binds specifically to the WW domain of Yes-associated protein. Defects in this gene are the cause of an autosomal recessive form of nonsyndromic sensorineural deafness. It is also reported that four synonymous variants in this gene are associated with kidney stones and reduced bone mineral density. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jun 2010]</p>

Product images:



Circular map for RC228772



Western blot validation of overexpression lysate (Cat# [LY431801]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC228773] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).