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Product datasheet for SC327408

Claudin 14 (CLDN14) (NM_001146078) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Claudin 14 (CLDN14) (NM_001146078) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLDN14
Synonyms:	DFNB29
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001146078, the custom clone sequence may differ by one or more nucleotides ATGGCCAGCACGGCCGTGCAGCTTCTGGGCTTCCTGCTCAGCTTCCTGGGCATGGTGGGC ACGTTGATCACCACCATCCTGCCGCACTGGCGGAGGACAGCGCACGTGGGCACCAACATC CTCACGGCCGTGTCCTACCTGAAAGGGCTCTGGATGGAGTGTGTGTGGCACAGCACAGGC ATCTACCAGTGCCAGATCTACCGATCCCTGCTGGCGCTGCCCCAAGACCTCCAGGCTGCC CGCGCCCTCATGGTCATCTCCTGCCTGCTCTCGGGCATAGCCTGCGCCTGCGCCGTCATC GGGATGAAGTGCACGCGCTGCGCCAAGGGCACACCCGCCAAGACCACCTTTGCCATCCTC GGCGGCACCCTCTTCATCCTGGCCGGCCTCCTGTGCATGGTGGCCGTCTCCTGGACCACC AACGACGTGGTGCAGAACTTCTACAACCCGCTGCTGCCCAGCGGCATGAAGTTTGAGATT GGCCAGGCCCTGTACCTGGGCTTCATCTCCTCGTCCCTCTCGCTCATTGGTGGCACCCTG CTTTGCCTGTCCTGCCAGGACGAGGCACCCTACAGGCCCTACCAGGCCCCGCCCAGGGCC ACCACGACCACTGCAAACACCGCACCTGCCTACCAGCCACCAGCTGCCTACAAAGACAAT CGGGCCCCCTCAGTGACCTCGGCCACGCACAGCGGGTACAGGCTGAACGACTACGTG
Restriction Sites:	Please inquire
ACCN:	NM_001146078
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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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_001146078.1, NP_001139550.1
RefSeq Size:	1346 bp
RefSeq ORF:	720 bp
Locus ID:	23562
UniProt ID:	O95500
Cytogenetics:	21q22.13
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
Gene Summary:	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] Transcript Variant: This variant (gamma) differs in the 5' UTR compared to variant 1. All five variants encode the same protein.