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Product datasheet for SC317428

Claudin 23 (CLDN23) (NM_194284) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Claudin 23 (CLDN23) (NM_194284) Human Untagged Clone
Tag:	Tag Free
Symbol:	Claudin 23
Synonyms:	CLDNL; hCG1646163
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_194284 edited ATGCGGACGCCGGTGGTGATGACGCTGGGCATGGTGTTGGCGCCCTGCGGGCTCCTGCTC AACCTGACCGGCACCCTGGCGCCCGGCTGGCGGCTGGTGAAGGGCTTCCTGAACCAGCCA GTGGACGTGGAGTTGTACCAGGGCCTGTGGGACATGTGTCGCGAGCAGAGCAGCCGCGAG CGCGAGTGCGGCCAGACGGACCAGTGGGGCTACTTCGAGGCCCAGCCCGTGCTGGTGGCG CGGGCACTCATGGTCACCTCGCTGGCCGCCACGGTCCTGGGGCTTCTGCTGGCGTCGCTG GGCGTGCGCTGCTGGCAGGACGAGCCCAACTTCGTGCTGGCAGGGCTCTCGGGCGTCGTG CTCTTCGTCGCTGGCCTCCTCGGCCTCATCCCGGTGTCCTGGTACAACCACTTCTTGGGG GACCGCGACGTGCTGCCCGCCCCGGCCAGCCCGGTCACGGTGCAGGTCAGCTACAGCCTG GTCCTGGGCTACCTGGGCAGCTGCCTCCTGCTGCTGGGCGGCTTCTCGCTGGCGCTCAGC TTCGCGCCCTGGTGCGACGAGCGTTGTCGCCGCCGCCGCAAGGGACCCTCCGCCGGGCCT CGCCGCAGCAGCGTCAGCACCATCCAAGTGGAGTGGCCCGAGCCCGACCTGGCGCCCGCC ATCAAGTACTACAGCGACGGCCAGCACCGACCGCCGCCTGCCCAGCACCGCAAGCCCAAG CCCAAGCCCAAGGTCGGCTTCCCCATGCCGCGGCCGCGGCCCAAGGCCTACACCAACTCG GTGGACGTCCTCGACGGGGAGGGGTGGGAGTCCCAGGACGCTCCCTCGTGCAGCACCCAC CCCTGCGACAGCTCGCTGCCCTGCGACTCCGACCTCTAG
Restriction Sites:	Please inquire
ACCN:	NM_194284
Insert Size:	2200 bp

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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 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 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.
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_194284.2, NP_919260.2
RefSeq Size:	1972 bp
RefSeq ORF:	879 bp
Locus ID:	137075
UniProt ID:	Q96B33
Cytogenetics:	8p23.1
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
Gene Summary:	This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal transductions. This gene is expressed in germinal center B-cells, placenta and stomach as well as in colon tumor. This gene is down-regulated in intestinal type gastric cancer. [provided by RefSeq, Aug 2010]