

Product datasheet for **SC328366**

Claudin 2 (CLDN2) (NM_001171092) Human Untagged Clone

Product data:

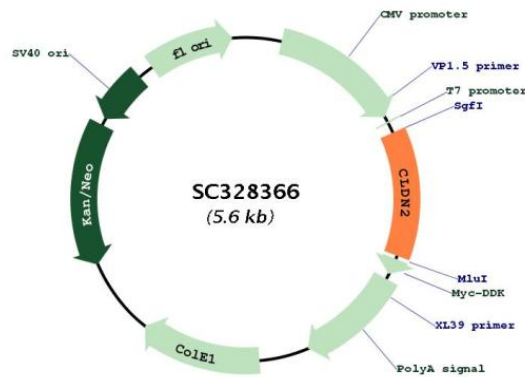
Product Type:	Expression Plasmids
Product Name:	Claudin 2 (CLDN2) (NM_001171092) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLDN2
Synonyms:	OAZON
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328366 representing NM_001171092. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCTCTCTTGGCCTCCAACCTGTGGGCTACATCCTAGGCCTTCTGGGGCTTTTGGGCACACTGGTT
GCCATGCTGCTCCCAGCTGGAAAACAAGTTCTTATGTCGGTGCCAGCATTGTGACAGCAGTTGGCTTC
TCCAAGGGCCTCTGGATGGAATGTGCCACACAGCACAGGCATCACCCAGTGTGACATCTATAGCACC
CTTCTGGGCTGCCCGCTGACATCCAGGCTGCCAGGCCATGATGGTGACATCCAGTGAATCTCCTCC
CTGGCCTGCATTATCTCTGTGGTGGCATGAGATGCACAGTCTTCTGCCAGGAATCCCGAGCCAAAGAC
AGAGTGGCGGTAGCAGGTGGAGTCTTTTCATCCTTGGAGGCCTCTGGGATTCAATCCTGTTGCCTGG
AATCTTCATGGGATCCTACGGGACTTCTACTACCACTGGTGCCTGACAGCATGAAATTTGAGATTGGA
GAGGCTCTTACTTGGGATTATTTCTTCCCTGTTCTCCCTGATAGCTGGAATCATCCTCTGCTTTTCC
TGCTCATCCCAGAGAAATCGCTCCAACCTACTACGATGCCTACCAAGCCCAACCTCTTGCCACAAGGAGC
TCTCCAAGGCCTGGTCAACCTCCCAAAGTCAAGAGTGAGTTCAATTCCTACAGCCTGACAGGGTATGTG
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_001171092

Insert Size: 693 bp

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.

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_001171092.1](#)

RefSeq Size:	3163 bp
RefSeq ORF:	693 bp
Locus ID:	9075
UniProt ID:	P57739
Cytogenetics:	Xq22.3
Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
MW:	24.5 kDa
Gene Summary:	<p>This gene product belongs to the claudin protein family whose members have been identified as major integral membrane proteins localized exclusively at tight junctions. Claudins are expressed in an organ-specific manner and regulate tissue-specific physiologic properties of tight junctions. This protein is expressed in the intestine. Alternatively spliced transcript variants with different 5' untranslated region have been found for this gene.[provided by RefSeq, Jan 2010]</p> <p>Transcript Variant: This variant (2) uses an alternate 5' non-coding exon compared to variant 1. Variants 1-3 encode the same protein.</p>