

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for RC228137

Claudin 10 (CLDN10) (NM_001160100) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Claudin 10 (CLDN10) (NM_001160100) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Claudin 10
Synonyms:	CPETRL3; HELIX; OSP-L; OSPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC228137 representing NM_001160100 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTCCAGGGCGCAGATCTGGGCTCTGGTGTCTGGTGTCGGAGGGTTTGGAGCTCTCGTTGCTGCTACCA CGTCCAATGAGTGGAAAGTGACCACGCGAGCCTCCTCGGTGATAACAGCCACTTGGGTTTACCAGGGTCT GTGGATGAACTGCGCAGGTTATATACAGGCATGTAGAGGACTTATGATCGCTGCTGCCAGCCTGGGCTTC TTTGGTTCCATATTTGCGCTCTTTGGAATGAAGTGTACCAAAGTCGGAGGCTCCGATAAAGCCAAAGCTA AAATTGCTTGTTTGGCTGGGATTGTATTCATACTGTCAGGGCTGTGCTCAATGACTGGATGTTCCCTATA TGCAAACAAAATCACAACGGAATTCTTTGATCCTCTCTTTGTTGAGCAAAAGTATGAATTAGGAGCCGCT CTGTTTATTGGATGGGCAGGAGCCTCACTGTGCATAATTGGTGGTGTCATATTTGCTTTTCAATATCTG ACAACAACAAAACACCCCAGATACACATACAACGGGGCCACATCTGTCATGTCTTCCGGACAAAGTATCA TGGTGGAGAAGATTTTAAAACAACAAACCCTTCAAAACAGTTTGATAAAAATGCTTATGTC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC228137 representing NM_001160100 <mark>Red</mark> =Cloning site Green=Tags(s)
	MSRAQIWALVSGVGGFGALVAATTSNEWKVTTRASSVITATWVYQGLWMNCAGYIQACRGLMIAAVSLGF FGSIFALFGMKCTKVGGSDKAKAKIACLAGIVFILSGLCSMTGCSLYANKITTEFFDPLFVEQKYELGAA LFIGWAGASLCIIGGVIFCFSISDNNKTPRYTYNGATSVMSSRTKYHGGEDFKTTNPSKQFDKNAYV
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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https://cdn.origene.com/chromatograms/ja1458 c08.zip **Chromatograms: Restriction Sites:** Sgfl-Mlul Cloning sites used for ORF Shuttling **Cloning Scheme:** ORF Mlu l Sgfl ACG CGT GCGATCGC Kozac EcoR I BamHI Kpn I RBS Sgfl ORF Mlu I Not ACG T GAG CAG AAA CTC E Q K L R EcoR V Pme I Flag. Tag Fse I CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGCC GAT CTG GCA GCA AAT GAT ATC А L D к D D D v * The last codon before the Stop codon of the ORF ACCN: NM 001160100 **ORF Size:** 621 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. The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube **Components:** 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 001160100.1, NP 001153572.1 **RefSeq ORF:** 624 bp Locus ID: 9071

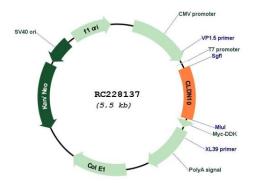
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P78369

UniProt ID:

	din 10 (CLDN10) (NM_001160100) Human Tagged ORF Clone – RC228137
Cytogenetics:	13q32.1
Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
MW:	22 kDa
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. The expression level of this gene is associated with recurrence of primary hepatocellular carcinoma. Six alternatively spliced transcript variants encoding different isoforms have been reported, but the transcript sequences of some variants are not determined.[provided by RefSeq, Jun 2010]

Product images:



Circular map for RC228137

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