

Product datasheet for MR225328

Cldn12 (NM_001193660) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cldn12 (NM_001193660) Mouse Tagged ORF Clone

Tag:Myc-DDKSymbol:Cldn12

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR225328 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225328 protein sequence

Red=Cloning site Green=Tags(s)

MGCRDVHAATVLSFLCGIASVAGLFAGTLLPNWRKLRLITFNRNEKNLTIYTGLWVKCARYDGSSDCLMY DRTWYLSVDQLDLRVLQFALPLSIVIAMGALLLCLIGMCNTAFNSSVPNIKLAKCLVNSAGCHLVAGLLF FLAGTVSLSPSIWAIFYNSHLNRKFEPVFTFDYAVFVTIASSGGLFMTALLLFVWYCACKSLSSPFWQPL YSHAPGMHTYSQPYSSRSRLSAIEIDIPVVSHST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



CTATAGGGCGGCCGG	_EcoR1 GAATTCGTC		HI Kpn I	RBS		Kozac Consensi Sg	ıs f	c M	rg -		
ORF	* NNN	Miu i ACG CGT T R			c and a	AG AAA Q K	Myc CTC L	.Tag ATC I	TCA S	GAA E	GAG E
GAT CTG GCA GCA		ATC CTG	GAT TAC	Flag.Tag AAG GA1 K D	GAC GA	C GAT D	AAG K	GTT '	me / TAA Stop	F: ACGG	se I COGGOC

^{*} The last codon before the Stop codon of the ORF

ACCN: NM 001193660

ORF Size: 732 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.

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: <u>NM 001193660.1</u>, <u>NP 001180589.1</u>

 RefSeq Size:
 3752 bp

 RefSeq ORF:
 735 bp

 Locus ID:
 64945

 UniProt ID:
 Q9ET43

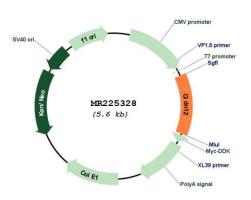
 Cytogenetics:
 5 A1

 MW:
 27 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. This gene, along with several other family members, is expressed in the inner ear. The protein encoded by this gene and another family member, claudin 2, are critical for vitamin D-dependent Ca2+ absorption between enterocytes. Multiple alternatively spliced transcript variants encoding the same protein have been found. [provided by RefSeq, Oct 2011]

Product images:



Circular map for MR225328