

Product datasheet for **SC333335**

Chloride Channel 5 (CLCN5) (NM_001272102) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chloride Channel 5 (CLCN5) (NM_001272102) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCN5
Synonyms:	CIC-5; CLC5; CLCK2; DENT1; DENTS; hCIC-K2; NPHL1; NPHL2; XLRH; XRN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333335 representing NM_001272102. Blue=Insert sequence Red=Cloning site Green=Tag(s)

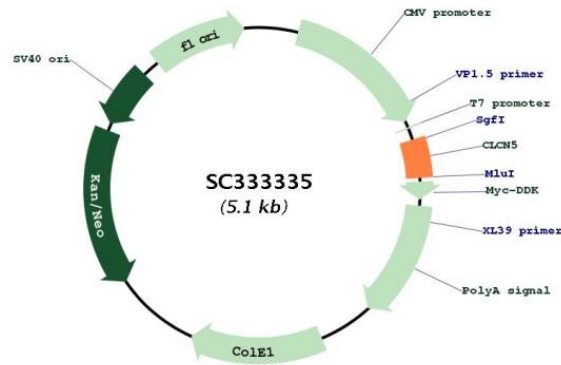
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGGCCATGTGGCAGGGTGCCATGGATAACAGAGGCTTTCAGCAGGGGAGTTTTAGTAGCTTCCAGAAC
AGCTCCAGTGATGAAGACCTGATGGACATTCAGCAACCGCTATGGATTCTCCATGAGAGATGATGT
CCTCCCTTAGACCGAGAAGTAGGAGGTATCATTATTGGTGATGATAATTTATCTTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM_001272102

Insert Size: 195 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).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10µg of transfection-ready, dried plasmid DNA (reconstitute with 100 µl 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_001272102.1](#)

RefSeq Size: 640 bp

RefSeq ORF: 195 bp

Locus ID: 1184

Cytogenetics: Xp11.23

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

MW: 7 kDa

Gene Summary: This gene encodes a member of the CIC family of chloride ion channels and ion transporters. The encoded protein is primarily localized to endosomal membranes and may function to facilitate albumin uptake by the renal proximal tubule. Mutations in this gene have been found in Dent disease and renal tubular disorders complicated by nephrolithiasis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2013]

Transcript Variant: This variant (5) uses an alternate splice site in the 5' UTR, it lacks several 3' exons but has an alternate 3' terminal exon, and it thus differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (c) has a distinct and shorter C-terminus, compared to isoform a.