

## Product datasheet for **RG226186**

### Chloride Channel 5 (CLCN5) (NM\_001127898) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chloride Channel 5 (CLCN5) (NM_001127898) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLCN5
Synonyms:	CIC-5; CLC5; CLCK2; DENTS; hCIC-K2; NPHL1; NPHL2; XLRH; XRN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG226186 representing NM\_001127898  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
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CCAAAAAGGATGTGTTAAAGCATATAGCACAGATGGCGAACCAAGATCCTGATTCCATTCTTCAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG226186 representing NM\_001127898  
 Red=Cloning site Green=Tags(s)

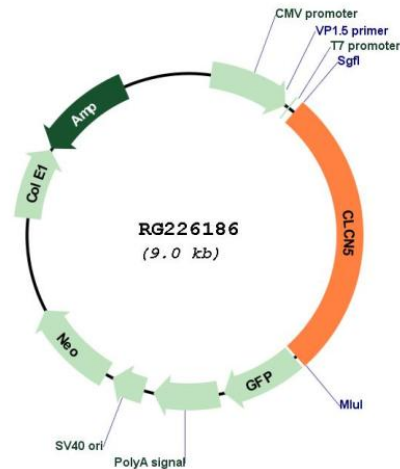
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FMYVLWALLFAFLAVSLVKVFAPYACGSGIPEIKTILSGFIIRGYLGKWTLVIKTITLVAVSSGLSLGK
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LVGFVLRRLIISIENARKKQDGVVSTSIYFTEHSPPLPPYTPPTLKLNRNILDLSPTFTDLTPMEIVV
DIFRKLGLRQCLVTHNGRLLGIITKKDVLKHIAQMANQDPDSILFN
  
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TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Plasmid Map:**


**ACCN:** NM\_001127898

**ORF Size:** 2448 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:** [NM\\_001127898.2](#)

**RefSeq Size:** 9849 bp

**RefSeq ORF:** 2451 bp

**Locus ID:** 1184

**UniProt ID:** [P51795](#)

**Cytogenetics:** Xp11.23

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

**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]