

Product datasheet for **SC323211**

Chloride Channel 5 (CLCN5) (NM_001127899) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chloride Channel 5 (CLCN5) (NM_001127899) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCN5
Synonyms:	CIC-5; CLC5; CLCK2; DENTS; hCIC-K2; NPHL1; NPHL2; XLRH; XRN
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001127899, the custom clone sequence may differ by one or more nucleotides

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ATGGCCATGTGGCAGGGTGCCATGGATAACAGAGGCTTTCAGCAGGGGAGTTTTAGTAGC
TTCCAGAACAGCTCCAGTGATGAAGACCTGATGGACATTCAGCAACCGCTATGGATTC
TCCATGAGAGATGATGTTCCCTTAGACCGAGAAGTAGGAGAGGACAAGTCGTACAAT
GGTGGAGGAATAGGTTCTTCAAATAGGATCATGGACTTCTGGAGGAGCCAATCCCTGGT
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GATAGGCACCGAGAGATTACCAATAAAAGCAAAGAGTCAACATGGGCCTTAATTCACAGT
GTGAGTGATGCTTTTTCCGGCTGGTTGTTGATGCTCCTATTGGGCTTTTATCAGGTTCCG
TTAGCTGGTTTGATAGACATCTCTGCTCATTGGATGACAGACTTAAAAGAAGGTATATGC
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GAAGAGAGAGACAAATGCCAGAGTGAATAGTTGGTCCCAGCTTATCATCAGCACAGAT
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GAGGGCCCTCTAGTGACGTGGCTTGTCTGTGGGAACATCCTGTGCCACTGCTTCAAC
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GCTCTTGGGCGGGAGGGCATCTATGATGCCACATCCGTCTCAATGGATACCCCTTTCTT
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AATGATCCTTTGTTGACTGTCCTTACTCAGGACAGTATGACTGTGGAAGATGTAGAGACC
ATAATCAGTGAACCCTTACAGTGGCTTCCAGTGGTGGTATCCCGGGAGTCCCAAAGA
CTTGTGGGCTTTGCTCCGAAGAGATCTATTATTTCAATTGAAATGCTCGAAAGAAA
CAGGATGGGTTGTTAGCACTTCCATCATTTATTTACGGAGCATTCTCCTCCATTGCCA
CCATACACTCCACCACTCTAAAGCTTCCGAACATCCTCGATCTCAGCCCTTCACTGTG
ACTGACCTTACACCCATGGAGATCGTAGTGATATTTTCCGAAAGCTGGGACTGCGGCAG
TGCTGTGTACACACAACGGGCGATTGCTTGGAAATCATTACCAAAAAGGATGTGTAAAG
CATATAGCACAGATGGCGAACCAAGATCCTGATTCATTCTCTTCAAC

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Restriction Sites: Please inquire

ACCN: NM_001127899

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:	<ol style="list-style-type: none">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_001127899.1 , NP_001121371.1
RefSeq Size:	10108 bp
RefSeq ORF:	2451 bp
Locus ID:	1184
UniProt ID:	P51795
Cytogenetics:	Xp11.23
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1, also known as type 2) represents the longest transcript and encodes the longest isoform (a). Both variants 1 and 2 encode the same isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>