

Product datasheet for **SC331996**

CLCN3 (NM_001243374) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN3 (NM_001243374) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCN3
Synonyms:	CIC-3; CLC3
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC331996 representing NM_001243374.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGATGCTTCTCCGACCCTTATTTGCCTTATGACGGGGGAGGAGACAATATCCCTGAGGGAATTA
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CAAGACCCCGCTCAATAATGTTCAACTGA
  
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Restriction Sites: AscI-MluI

ACCN: NM_001243374

Insert Size: 2376 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 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_001243374.1](#)

RefSeq Size: 5891 bp

RefSeq ORF: 2376 bp

Locus ID: 1182

UniProt ID: [P51790](#)

Cytogenetics: 4q33

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

MW: 88 kDa

Gene Summary: This gene encodes a member of the voltage-gated chloride channel (ClC) family. The encoded protein is present in all cell types and localized in plasma membranes and in intracellular vesicles. It is a multi-pass membrane protein which contains a ClC domain and two additional C-terminal CBS (cystathionine beta-synthase) domains. The ClC domain catalyzes the selective flow of Cl⁻ ions across cell membranes, and the CBS domain may have a regulatory function. This protein plays a role in both acidification and transmitter loading of GABAergic synaptic vesicles, and in smooth muscle cell activation and neointima formation. This protein is required for lysophosphatidic acid (LPA)-activated Cl⁻ current activity and fibroblast-to-myofibroblast differentiation. The protein activity is regulated by Ca²⁺/calmodulin-dependent protein kinase II (CaMKII) in glioma cells. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]
Transcript Variant: This variant (c) lacks two exons from the 5' end but has an alternate 5' exon, compared to variant b. The resulting isoform (c) has a shorter and distinct N-terminus, compared to isoform b. 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.