

Product datasheet for **SC109072**

CLCN6 (NM_021735) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCN6 (NM_021735) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCN6
Synonyms:	CLC-6; KIAA0046
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_021735, the custom clone sequence may differ by one or more nucleotides

```
ATGGCGGGGTGCAGGGGTCTCTGTGCTGCTGCTGCAGGTGGTGTGCTGCTGCTGCGGTGAGCGTGAGACCC
GCACCCCGAGGAGCTGACCATCCTTGGAGAAACACAGGAGGAGGAGGATGAGATTCTTCCAAGGAAAGA
CTATGAGAGTTTGGATTATGATCGCTGTATCAATGACCCTTACCTGGAAGTTTTGGAGACCATGGATAAT
AAGAAAGGTGAAGATATGAGGCGGTGAAGTGGATGGTGGTGTGGCCATTGGAGTCTGCACTGGCCTGG
TGGGTCTCTTTGTGGACTTTTTTGTGCGACTCTCACCCAACCAAGTTCGGAGTGGTACAGACATCGGT
GGAGGAGTGCAGCCAGAAAGGCTGCCTCGCTCTGTCTCTCCTTGAACCTCCTGGGTTTTAACCTCACCTT
GTCTTCTGGCAAGCCTCCTTGTCTCATTGAGCCGGTGGCAGCAGGTTCCGGGATACCCGAGGTCAAAT
GCTATCTGAATGGCGTAAAGGTGCCAGGAATCGTCCGTCTCCGGACCCTGCTCTGCAAGGTCTTGGAGT
GCTGTTCAAGTGTGGCTGGAGGGCTCTTCGTGGGAAGGAAGGCCCATGATCCACAGTGGTTCGGTGGT
GGAGCTGGCCTCCCTCAGTTTCAGAGCATCTCCTTACGGAAGATCCAGTTTAACTTCCCCTATTTCCGAA
GCGACAGGTATGGAAGAGACAAGAGAGACTTTGTATCAGCAGGAGCGGCTGCTGGAGTTGCTGCAGCTT
TCGGGGCGCCAATCGGGGTACCTTGTTCAGTCTAGAGGAGGGTTCGTCTTCTGGAACCAAGGGCTCAC
GTGGAAGTGTCTTTTGTCCATGTCTGCCACCTTACCCTCAACTTCTCCGTCTGGGATTCAGTTT
GGAAGCTGGGGTTCCTTCCAGCTCCCTGGATTGCTGAACCTTGGCGAGTTAA
```



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_021735 unedited</p> <pre>GGATTTATGTATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCACAGGTCTC GTTGGAGGCCGTGCCTTTATCGTCATGTGACGCGAGTCTCGCCCCACCCGTCTGCAGCC ACTCCTGGTCTCAGTCCCAGAGCTCGAGAGGGCCACGTGACCGTCCCAGGGCCAGTCACG TGAGGCGCAGATCCTGGCTGGGAGGGGTTGGTAGAGGGTCCAGAGTGGCAGTAAAGGA GGAAGATGGCGGGTGCAGGGGTTCTGTGCTGCTGTCAGGTGGTGTGCTGCTGCG GTGAGCGTGAGACCCGCACCCCGAGGAGCTGACCATCCTTGGAGAAACACAGGAGGAGG AGGATGAGATTCTTCCAAGGAAAGACTATGAGAGTTTGGATTATGATCGCTGTATCAATG ACCTTACCTGGAAGTTTTGGAGACCATGGATAATAAGAAAGGTGGAAGATATGAGGCGG TGAAGTGGATGGTGGTGTGGCATTGGAGTCTGCACTGGCCTGGTGGGTCTCTTTGTGG ACTTTTTTGTGCGACTCTTACCCTCAACTCAAGTTCGGAGTGGTACAGACATCGGTGGAGG AGTGCAGCCAGAAAGGCTGCCTCGCTCTGTCTCTCCTTGAACCTCGGGTTTTAACCTCA CCTTTGTCTTCTGGCAAGCCTCTTGTCTCATTGAGCCGGTGGCAGCAGGTTCCGGGA TACCCCGAGTCAAATGCTATCTGAATGGCGTTAAAGGTGCCAGGAATCGTCCGTCTCCGG ACCTGTCTGCAAGTCTTGGAGTGTGTTCAAGTGTGGCTGGAAGGCTCTTCTGGCGAA GGGAAGCCATGACCCACAGGGTTCGGGGTGGGAGCTGGCCNCCTTAGTTTAGACAT CCCCTTACGGAGATCCACTNTATTTCCCATTTCCGAGACGCCGAAACAAAGAGATTTGT ATACGCAGAGCG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_021735 unedited</p> <pre>ATGGACCGCGGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTGAAAAAAAAAATTTTATTCTCACATGTTAGGGTTACAATGAAAATCC CAAGTTCAAAGGTTCAAATAAAAAATAGCATTTACAAATTAATAAAAAATACAATTTATA TACCCAGGGGAATTAGCTAACATCATAACAACAACAGGGCAAACAGAAAAAGGAAGCT GCGACTGGGGCAATGGCCAAGGTCGCAAGCTGGGGGGCAACTGACATCAATACTG GAGGGCTGGCGAGGCCACCTTGGGCCTCTCGAAAGGCTTTCCTGTCAACCCAGGGTCATGT CAGTGCATAAATCTGCATCACAATGCCATACAGGGGACTGGGTCTGAAAGGGTCCCTT CCAGCTGGGAAGTGTAAAGTAAATCAAGGGCAGGAGCAAATCATCCCTCAGCACAAAGTC CCAAAGCCAGGGCCGGGGGCCATTGGCCCACTCCCTGATCACCTAGGGGCCAT GGAACACCAAGCTTTCAGGGGGCACTGGCTCAAAGTGTCTTCTTACTTTGGAAAAA AAAATGGTAGCATTCCCAGAGTTGAGTGAAGCTGCTTTATCCAGGAGTGCCTGCTTTT AACTAACTTTGGTGGGTGATGCCAAGATCCTCTGAGCTCTGCCTGCTTATCAGGAGACG GAGATCAAAACTTAAGGAAATGAAAAAGGATCTGGGTAGAAACGTGTTACTGGGGAGACT GGGAATAATCTGCAGATGGAAGAAACTGCAATGGTAAAATTAAGGTAAACGTAATCTGA TCCTATATCAGATGAACATCCAGGGTATTAGGGGATTTATCCCTTAGGTTCTGGGGGCG GGGGTCTTAGGAGAGTAACCCAGGGAGGACAGACCTTTGTTAACCAGACAAGAGGTTCC CTAAA</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_021735
Insert Size:	4600 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_021735.1](#), [NP_068503.1](#)

RefSeq Size: 3894 bp

RefSeq ORF: 963 bp

Locus ID: 1185

Cytogenetics: 1p36.22

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

Gene Summary: This gene encodes a member of the voltage-dependent chloride channel protein family. Members of this family can function as either chloride channels or antiporters. This protein is primarily localized to late endosomes and functions as a chloride/proton antiporter. Alternate splicing results in both coding and non-coding variants. Additional alternately spliced variants have been described but their full-length structure is unknown. [provided by RefSeq, Mar 2012]

Transcript Variant: This variant (CIC-6b) has an additional segment of 10 nts in the CDS and lacks multiple 3' coding exons, as compared to variant CIC-6a. The resulting isoform CIC-6b has a shorter and distinct C-terminus, as compared to isoform CIC-6a.