

## Product datasheet for **SC123906**

### CLCA1 (NM\_001285) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLCA1 (NM_001285) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCA1
Synonyms:	CACC; CaCC-1; CACC1; CLCRG1; GOB5; hCaCC-1; hCLCA1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC123906 sequence for NM\_001285 edited (data generated by NextGen Sequencing)

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ATGGGGCCATTTAAGAGTTCCTGTGTTTCATCTTGATTCTTCACCTTCTAGAAGGGGCCCTG
AGTAATCACTCATTGCTGAAACAACATGGCTATGAAGGCATTGTCGTTGCAATCGAC
CCCAATGTGCCAGAAGATGAAACACTCATTCAACAATAAAGGACATGGTGACCCAGGCA
TCTCTGTATCTGTTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAATGTTGCCATTTG
ATTCTGAAACATGGAAGACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAA
AATGCTGATGTTCTGGTTGCTGAGTCTACTCCTCCAGGTAATGATGAACCTACACTGAG
CAGATGGGCAACTGTGGAGAGAAGGTGAAAGGATCCACCTCACTCCTGATTTTCATTGCA
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CTACGATGGGGAGTATTTGACGAGTACAATAATGATGAGAAATCTACTTATCCAATGGA
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CAGGGAGGCAGCTGTTACACCAAAAGATGCACATTCAATAAAGTTACAGGACTCTATGAA
AAAGGATGTGAGTTTGTCTCCAATCCCGCCAGACGGAGAAGGCTTCTATAATGTTTGCA
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GACTTTAAGAAAACCACTCCTATGACAACACAGCCACCAATCCACCTTCTCATTGCTG
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CCAACTGATGGATCTGAAATTGTCTGCTGACGGATGGGGAAGACAACACTATAAGTGGG
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GGCTTTGTAGTGGACAAAACACCAAAATGGCCTACCTCAAATCCAGGCATTGCTAAG
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GAACTACTGGATAATGGAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGG
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GATGTCCCAAATGCTCCATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAG
GCGGAAATTCACGGGGCAGTCTCATTAACTGACTTGGACAGCTCCTGGGGATGATTAT
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TCTGAGGAAGTCTTTTTGTTTAAACCAGAAAACATTACTTTTGAAAATGGCACAGATCTT
TTCATTGCTATTTAGGCTGTTGATAAGGTGATCTGAAATCAGAAATATCCAACATTGCA
CGAGTATCTTTGTTTATCCTCCACAGACTCCGCCAGAGACACCTAGTCTGATGAAACG
TCTGCTCCTTGTCTAATATTTCATATCAACAGCACCATTCTGGCATTACATTTTAAAA
ATTATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATAGCCTAG

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Clone variation with respect to NM\_001285.3  
645 a=>t;1070 a=>g;1571 t=>c;2436 t=>c;2533 c=>t

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001285 unedited TCCGGGCCAGGATAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTCAGG AAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTGGGGTTTTTTTTTTTT TTTTTTTTTCCCAGTTGTTTAGCATTATTTTATCGCCCCCTACAGGAAGTCTAAAA TACATTTAGTATATCGCCCCCTACAGGAATACATTTAGTATAAATGTACTATACATTT AGTATATCGCCCCCTACAGGAAGTCTAAAAACATTTTAGAAAAATTTATAATCAAAAA AAGGATGAATGATTTATTTTATTTATCTGACAAAAATTCAGCCCTAGGCTATTGACAGCT GCAGTTCTCCTATCCACTTCCACATAATTTTTAAAATGTGAATGCCAGGAATGGTGTGT TGATATGAATATTAGGACAAGGAGCAGACGTTTCATCAGGACTAGGTGTCTCTGGCGGAG TCTGTGGAGGAATAAACAAAGATACTCGTGAATGTTGGATATTTCTGATTTAGATCGA CCTTATCAACAGCCTAAATAGCAATGAAAAGATCTGTGCCATTTTCAAAAGTAATGTTTT CTGTTTTAAACAAAAAGACTTCTCAGAGTTGGCTTCTTTGGGATGAGAGCGGTAGTAT TCACTTGAAGAGATTCATTGAACTGTCTCTGAGATCAAGAATACTTGTACTTATTCGAA TGATATACTTGTGAGCTGTTCCATGGCATAAT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001285
<b>Insert Size:</b>	3500 bp
<b>OTI Disclaimer:</b>	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.  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. <a href="#">More info</a>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001285.1</a> , <a href="#">NP_001276.1</a>
<b>RefSeq Size:</b>	3311 bp
<b>RefSeq ORF:</b>	3123 bp
<b>Locus ID:</b>	1179

UniProt ID: [A8K7I4](#)

Cytogenetics: 1p22.3

Protein Families: Druggable Genome, Ion Channels: Other

Protein Pathways: Olfactory transduction

**Gene Summary:** This gene encodes a member of the calcium sensitive chloride conductance protein family. To date, all members of this gene family map to the same region on chromosome 1p31-p22 and share a high degree of homology in size, sequence, and predicted structure, but differ significantly in their tissue distributions. The encoded protein is expressed as a precursor protein that is processed into two cell-surface-associated subunits, although the site at which the precursor is cleaved has not been precisely determined. The encoded protein may be involved in mediating calcium-activated chloride conductance in the intestine. [provided by RefSeq, Jul 2008]