

## Product datasheet for **RC218583**

### CLCA1 (NM\_001285) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLCA1 (NM_001285) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLCA1
Synonyms:	CACC; CaCC-1; CACC1; CLCRG1; GOB5; hCaCC-1; hCLCA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC218583 representing NM\_001285  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCCATTTAAGAGTTCGTGTTTCATCTTGATTCTTCACCTTCTAGAAGGGCCCTGAGTAATTCAC  
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 AACACTCATTCAACAAATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGTACAGGAAAG  
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 CAAAACCTGAGACCTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCCTCCAGGTAATGATGAACC  
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 AGTAAGGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTGATCGTGGACAGCACCGTGGGAA  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC218583 representing NM\_001285  
 Red=Cloning site Green=Tags(s)

MGPFKSSVFILILHLLEGALSNSLIQLNNGYEGIVVAIDPNVPEDETLIQQIKDMVTQASLYLFEATGK  
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 LSIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

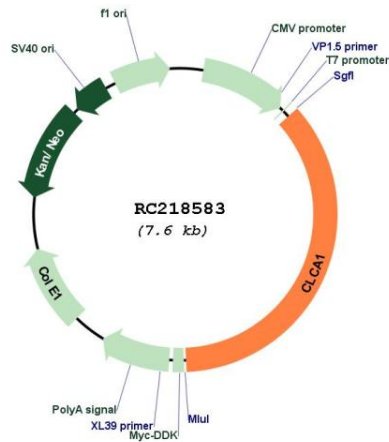


**ACCN:** NM\_001285

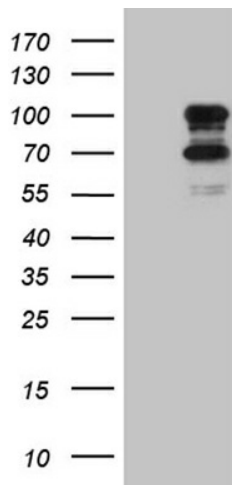
**ORF Size:** 2742 bp

<b>OTI Disclaimer:</b>	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>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001285.3</a> , <a href="#">NP_001276.2</a>
<b>RefSeq Size:</b>	3311 bp
<b>RefSeq ORF:</b>	2745 bp
<b>Locus ID:</b>	1179
<b>UniProt ID:</b>	<a href="#">A8K7I4</a>
<b>Cytogenetics:</b>	1p22.3
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other
<b>Protein Pathways:</b>	Olfactory transduction
<b>MW:</b>	100.26 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC218583



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CLCA1 (Cat# RC218583, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CLCA1 (Cat# [TA809864])(1:2000).