

## Product datasheet for **RR212005**

### **Clca2 (NM\_001013202) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Clca2 (NM_001013202) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clca2
Synonyms:	CLCA; Clca4; rbCLCA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR212005 representing NM\_001013202  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGCCAGTGTGAAGTCTTCTGTTCTCACCTGCACCTCTTGCAGGACACAAAAAGCTTCAAGG  
 TCCATCTCAACAACAATGGATATGAGGGTGTGGTCATTGCAATTAACCCAGTGTACCAGAGGATGAAAG  
 ACTCATCCCAAGCTTAAAGGAAATGGTCACTCAAGCCTCTACTTACCTGTTTGAAGCCAGCCAAGGAAGG  
 TTTTACTTCAGGAATGTAAGCATATTAGTCCCAGTACCTGGAAGTCAAAATCTGAGTACTTGATGCCAA  
 AACGAGAATCATATGACAAAGCAGATGTCATAGTTGCCAATTCTCATCTGAAATATGGAGACAATCCCTA  
 CACCTTCAATATGGGCAGTGTGGGGACAGAGGACGGTACATACATTTCACTCCAAACTTCTGCTCACT  
 GATAACGTGCGTAACTATGGACCCCGAGGCAGAGTCTTTGTCCATGAGTGGGCTCATCTCCGGTGGGGAG  
 TGTTTGATGAGTATAATGAGGACCGCCTTTCTACATATCTGAAAGAACACTATCGAAGTGACAAGGTG  
 TTCTACCGACATCAAGGGCTCTAAGGCGGTCCATGAGCGCCAGAGAGGCAGCGATGTGACAAGGTTATGC  
 CGATGGGACTCGAGGACAGGGCTGTATGAACCCAAATGTAATTTTTCCAGACAAAAATTCAGACTGCCA  
 GGGCTCCATAATGTTTATGCAAAATCTCAATTCGGTGTGAATTTTGACAGAAAAAACCCATAATAC  
 GGAAGCCCCAAACCTACAAAACAAAATATGCAATGGCAGAAGCACGTGGGACGTAATCAAGGAGTCCGCT  
 GACTTTCAGCAGGCCCTCCCATGAGAGGAACAGAAGCCCTCCTCCACCACGTTTTCTTGCTCAAGT  
 CCAGACAGCGAGTGATCTGCTTGGTGTGGATAAATCCGGAAGCATGGACACAGAAGACCGCCTTATTCCG  
 AATGAATCAAGCAGCGGAAGTACTTAACTCAAATTGTTGAAAAGGAATCTATGGTTGGATTAGTCACT  
 TTTGACAGCACTGCCAAATCCAAAATTACCTGATAAAAAAATACTAATACCGGTGACTACAAGAAAAATCA  
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 CAGCCTGATGGACGCTTTCAGTGGGATTTCTCTGCAAGTGGCAACTCTCCAGCAGGCTCTGCAGTTG  
 GAGAGCAAAGCCTTCAATATTGGAGGGGGACATGGATAAATGGTACAGTACCTGTGGACAGTACCATTG  
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 TGACAGTGACCACTCGAGCCAGAAGTCCCACCACAGCCCTCATGGCCACCGCTCACATGAGTCAGAG  
 CACAGCCAGTACCCTAGTCCGATGATTGTGTATGCACGGGTGAGCAAGGGTTTTTGCCTGTTCTGGGA  
 GCCAATGTCACAGCCGTCATAGAATCTGAAAATGGAAGTCGAGTACCCTGGAGCTCTGGGACAACGGGG  
 CAGGTGCTGACTGTCAAAAATGATGGCATCTACACGAGATATTTTACAGATTACACGGAAATGGTAG  
 ATACAGCTTAAAGTGCCTGTCCAGGCAAGAAAGAGCAAAGCCAGACTAAGTTTAAAGACAAAAGAACAAG  
 TCTTTATATACCTGGCTATGTTGAAAATGGTAAAATATACTGAATCCACCCAGACCGGAAGTCCCAG  
 AAGAAGCTACAGAAGCTGCAGTGAAGACTTACAGCAGACTAACCTCTGGAGAGTCGTTTACTGTGTCGG  
 AGCGCCCCCTGATGGCGGCCACGCTCATGTGTTCCACCCAGTAAAGTTACAGACCTGGAGGCCGAGTTT  
 AAAGGTGATCATATTCACCTTACCTGGACGGCCCTGGCAAGTTCTCGATAAAGGAAGAGCGCACAGAT  
 ACGTCATCAGAATGAGCCGGCATCCTCCTGGTCTCCAAGATTTTAAACGACGCTACTTTAGTGAATACTTC  
 CGGTCTGATACCTAAAGAGGCTGGCTCAGAAGAAACGTTTAAATCAAACCAGCAAGTTTTAAAATAGAA  
 AACGGCACCCAGCTCTACATTGCAATTCGGCCAACAATGAAGCCGGTCTCACCTCTGAGGTCTCCAACA  
 TCGCACAGGCTGTCAACTTTATTCCTCCAGAACATAGTTTCTCTACACTCAGCCCTGATATTTCTGCAAT  
 CTGTCTGACAATTTGGGGTTAACTGTGATTCTTAACGATATTTAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212005 representing NM\_001013202  
 Red=Cloning site Green=Tags(s)

MVPVLKVLFLTLHLLQDTKSFKVHLNNGYEGVVIAINPSVPEDERLIPSLKEMVTQASTYLFEASQGR  
 FYFRNVSILVPMTWKSSEYLMPKRESYDKADVI VANSHLKYGDNPYTLQYGQCGDRGRYIHFTPNFLT  
 DNVRNYPGRGRVFEVWAHLRWGVFDEYNEDRPFYISGKNTIEVTRCSTDIKGSKAVHERQSGSDVTRLC  
 RWDSTRGLYEPKCKFFPDKIQTARASIMFMQNLNSVVEFCTEKTHNTEAPNLQNKICNGRSTWDVIKESA  
 DFQQAPPMRGTEAPPPPTFSLKSRQRVICLVLDKSGSMDTEDRLIRMNQAAELYLTIQIVEKESMVLVT  
 FDSTAQIQNYLIKITNTGDYKKITGNLPQAVGGTICRGGLEAGFQAITSDDQSTSGSEIVLLTDGEDDL  
 ISSCFEVVKHSGAVIHTIALGPKAARELETLSDMTGGLRFYANKDVNSLMDAFSGISSASGNLSQQAQL  
 ESKAFNIGGGTWTWINGTVPVDSTIGNDTFFVITWTVQKPEIILRDPKRKYTTSDFDNKLNIRSARLQIP  
 GTAETGTWYSLFNKGVPQLLTVTTRARSPTTQPLMATAHMSQSTAQYSPMIVYARVSQGFPLVVG  
 ANVTAVIESENGSRVTLELWDNGAGADTVKNDGIYTRYFTDYHGNGRYSLKVRVQARKSKARLSLRQKNK  
 SLYIPGYVENGKIIILNPPRPEVPEEATEAAVEDFSRLTSGESFTVSGAPPDGGHAHVFPSPKVTDLAEAF  
 KGDHIIHLTWTAPGKVLDKGRAHRYVIRMSRHPPGLQDFNDATLVNTSGLIPKEAGSEETFKFKPASFKIE  
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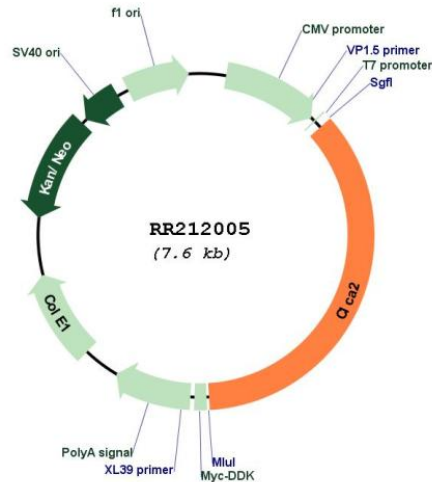
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001013202

**ORF Size:** 2709 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001013202.2](#), [NP\\_001013220.1](#)

**RefSeq Size:** 3324 bp

**RefSeq ORF:** 2712 bp

**Locus ID:** 362052

**Cytogenetics:** 2q44

**MW:** 100.3 kDa

**Gene Summary:** calcium-sensitive chloride channel which is expressed in endothelial cells [RGD, Feb 2006]