

## Product datasheet for **SC330572**

### CLCNKA (NM\_001257139) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLCNKA (NM_001257139) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCNKA
Synonyms:	CIC-K1; CLCK1; hCIC-Ka
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

**Fully Sequenced ORF:** >SC330572 representing NM\_001257139.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGAGGAGTTGGTGGGGCTGCGTGAGGGCTTCTCAGGGGACCCTGTGACTCTGCAGGAGCTGTGGGGC
CCCTGTCCCCACATCCGCCGAGCCATCCAAGGTGGCCTGGAGTGGCTAAAGCAGAAGGTGTTCCGCCTG
GGAGAAGACTGGTACTTCTGTGACCCCTCGGGTGCTCATGGCCCTGGTCAGCTATGCCATGAACCTT
GCCATCGGGTGTGTGGTCCGAGTTCTGGAATCCCGGAGCTGAAGACCATGTTGGCGGGTGTGATCTTG
GAGGACTACCTGGATATCAAGAACCTTTGGGGCCAAGGTGGTGGGCCTCTCCTGCACCCTGGCCACCGGC
AGCACCCCTGTTTCCTGGGCAAAGTGGGCCCTTTCGTGCACCTGTCTGTAATGATCGCTGCCTACCTGGGC
CGTGTGCGCACCACGACCATCGGGGAGCCTGAGAACAAAGAGCAAGCAAAACGAAATGCTGGTGGCAGCG
GCGGCAGTGGGCGTGGCCACAGTCTTTCAGCTCCCTTCAGCGCGTCTGTTCAGCATCGAGGTCATG
TCTTCCCCTTCTGTCCGGGATTACTGGAGGGCTTCTTTCGGGCCACCTGCGGGCCTTCATATTC
CGGCTCCTGGCAGTCTTCAACAGCGAGCAGGAGACCATCACCTCCCTCTACAAGACCAGTTTCCGGGTG
GACGTTCCCTTCGACCTGCCTGAGATCTTCTTTTTTGTGGCGCTGGTGGCATCTGCGGCGTCTGAGC
TGTGCTTACCTCTTCTGTGAGCAACCTTCTCAGCTTTCATCAAGACCAATCGGTACAGTCCAAACTG
CTGGCTACTAGCAAGCCTGTGTACTCCGCTCTGGCCACCTTGCTTCTCGCTCCATCACCTACCCGCT
GGTGTGGGCCACTTCTAGCTTCTCGGCTGTCCATGAAGCAGCATCTGGACTCGCTGTTGACAACCAC
TCTGGGCGCTGATGACCCAGAACTCCAGCCACCCTGGCCCAGGAGCTCGACCCACGACCTTTGG
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AAGAAGCTGCCATACCTGCCACGGATTCTGGGCCGAACATCGGCTCCCACCATGTGAGGGTGGAGCAC
TTCATGAACCACAGCATCACCACACTGGCCAAGGACACGCCGCTGGAGGAGGTGGTCAAGGTTGTGACC
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AGGGCCCAGCTGGTGCAGGCCCTCAGGCTGAGCCTCCTCCAGGGCTCCAGGACACCAGCAGTGTCTC
CAGGACATCTGGCCAGGGGCTGCCCCACGGAACCAGTACCCTGACGCTATTCTCAGAGACCACCTTG
CACCAGGCACAAAACCTCTTAAGCTGTTGAACCTTCAGTCCCTTCTCGTACATCGCGGGCAGAGCT
GTGGGCTGCGTGTCTGGGTGGAGATGAAGAAAGCAATTTCCAACCTGACAAATCCGCCAGCTCCAAAG
TGA
  
```

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001257139

**Insert Size:** 1935 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\\_001257139.1](#)

**RefSeq Size:** 2427 bp

**RefSeq ORF:** 1935 bp

**Locus ID:** 1187

**UniProt ID:** [P51800](#)

**Cytogenetics:** 1p36.13

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 70.5 kDa

**Gene Summary:** This gene is a member of the CLC family of voltage-gated chloride channels. The encoded protein is predicted to have 12 transmembrane domains, and requires a beta subunit called barttin to form a functional channel. It is thought to function in salt reabsorption in the kidney and potassium recycling in the inner ear. The gene is highly similar to CLCNKB, which is located 10 kb downstream from this gene. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. The resulting protein is shorter compared to isoform 1. 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.