

Product datasheet for **SC300007**

CLCNKB (NM_000085) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCNKB (NM_000085) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCNKB
Synonyms:	CIC-K2; CIC-Kb; CLCKB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC300007 representing NM_000085.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGGAGGAGTTTGTGGGCTGCGTGAAGGCTCCTCAGGGAACCTGTGACTCTGCAGGAGCTGTGGGGC
CCCTGTCCCGCATCCGCCGAGGCATCCGAGGTGGCTGGAGTGGCTGAAGCAGAAGCTCTCCGCCTG
GGCGAGGACTGGTACTTCTGATGACCCTCGGGGTGCTCATGGCCCTGGTCACTGTGCCATGGACTTG
GCTGTTGAGAGTGTGGTCCGAGCGCACCACTGGCTGTACAGGGAGATTGGGGACAGCCACCTGCTCCGG
TATCTCTCCTGGACTGTGTACCCTGTGGCCCTCGTCTCTTTCTCTCAGGCTTCTCTCAGAGCATCACA
CCCTCCTCTGGAGTTCTGGAATCCCGGAGGTGAAGACCATGTTGGCGGGTGTGGTCTTGGAGGACTAC
CTGGATATCAAGAACTTTGGGGCAAAGTGGTGGGCTCTCTGCACCCTGGCCTGTGGCAGCACCTC
TTCTCGGAAAGTGGGCCCTTTCGTGCACCTGTCTGTGATGATGGTGCCTACCTGGGCCGTGTGCGC
ACCACGACCATCGGGGAGCCTGAGAACAAGAGCAAGCAAAACGAAATGCTGGTGGCAGCGCGGCAGTG
GGCGTGGCCACAGTCTTTCAGCTCCCTCAGCGCGTCTGTTGAGCATCGAGGTGATGCTTCCAC
TTCTCTGTCTGGGATTACTGGAGGGCTCTTTGCGGCCACCTGCGGGGCCCTTATGTTCCGGCTCCTG
GCGGTCTTCAACAGCGAGCAGGAGACCATCACCTCCCTCTACAAGACAGTTTCCGGGTGGACGTTCCC
TTGACCTGCCTGAGATCTTCTTTTTTGTGGCGTGGGGGTCTCTGTGGCATCCTGGGACGCGTTAC
CTTTCTGTGACGGAATCTTCTTTGGCTTCATCAGGAACAATAGGTTGAGCTCCAACTGCTGGCCACC
AGCAAGCTGTGTACTCCGCTCTGGCCACCTTGGTTCTCGCCTCCATCACCTACCCACCCAGCGCCGGC
CGCTTCTAGCTTCTCGGCTGTCCATGAAGCAGCATCTGGACTCGCTGTTGACAACCACTCCTGGGCG
CTGATACCCAGAATCCAGCCACCCTGGCCGAGGAGCTGACCCCAAGCAGCCTGTGGTGGGAATGG
TACCACCCGCGGTTACCATCTTTGGGACCCTTGCCCTTCTCTGGTTATGAAGTTCTGGATGCTGATT
CTGGCCACCACTCCCATGCCTGCCGGTACTTTCATGCCATCTTTGTCTATGGAGCTGCTATCGGG
CGCCTCTTTGGGAGACTCTCTTTTTATCTTCCCTGAGGGCATCGTGGCTGGAGGGATACCAATCCC
ATCATGCCAGGGGGTATGCTCTGGCAGGGGTGCAGCCTTCTCAGGGGTGTGACCCACACCATCTCC
ACGGCGTGTGGCCTTTCGAGGTGACCGGCCAGATAGTGCATGCACTGCCCGTGTGATGGCGGTGCTG
GCAGCCAACGCCATTGCACAGAGCTGCCAGCCCTCCTTCTATGATGGCACCGTATTGTCAAGAAGCTG
CCATACCTGCCACGATTCTGGGCCGAACATCGGTTCCACCCGCTGAGGGTGGAGCACTTTCATGAAC
CACAGCATCACCACTGGCCAAGGACATGCCACTGGAGGAGTGGTCAAGGTTGTGACCTCCACAGAC
GTGGCCAAGTATCCCCTGGTGGAGACACAGATCCAGATCCTGGTGGGCATAGTGCAGGGGCCAG
CTGGTGCAGGCCCTGAAGGCTGAGCCTCCTTCTGGGCTCCTGGACACCAGCAGTGTCTCCAGGACATC
TTGGCTGCAGGCTGCCCCACAGAACCAGTGACCCTGAAGCTGTCCCAGAGACTTCCCTGCATGAGGCA
CACAACCTCTTTGAGCTGTTGAACCTTCATTCCCTCTTTGTGACGTGCGGGGGCAGAGCTGTGGGCTGC
GTGCTCTGGTGGAGATGAAGAAAGCAATTTCAAACCTGACAAATCCGCCAGCCCCAAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: SgfI-MluI
ACCN: NM_000085
Insert Size: 2064 bp

OTI Disclaimer: 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 custsupport@origene.com 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. [More info](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_000085.4](#)

RefSeq Size: 2626 bp

RefSeq ORF: 2064 bp

Locus ID: 1188

UniProt ID: [P51801](#)

Cytogenetics: 1p36.13

Protein Families: Druggable Genome, Transmembrane

MW: 75.4 kDa

Gene Summary:

The protein encoded by this gene is a member of the family of voltage-gated chloride channels. Chloride channels have several functions, including the regulation of cell volume, membrane potential stabilization, signal transduction and transepithelial transport. This gene is expressed predominantly in the kidney and may be important for renal salt reabsorption. Mutations in this gene are associated with autosomal recessive Bartter syndrome type 3 (BS3). Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer 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.