OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC219199

CLCNKB (NM_000085) Human Tagged ORF Clone

Product data:

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

ORF Nucleotide Sequence:

>RC219199 representing NM_000085
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAGTTTGTGGGGCTGCGTGAAGGCTCCTCAGGGAACCCTGTGACTCTGCAGGAGCTGTGGGGCC
CCTGTCCCCTCATCCGCCGAGGCATCCGAGGTGGCCTGGAGTGGCTGAAGCAGAAGCTCTTCCGCCTGGG
CGAGGACTGGTACTTCCTGATGACCCTCGGGGTGCTCATGGCCCTGGTCAGCTGTGCCATGGACTTGGCT
GTTGAGAGTGTGGTCCGAGCGCACCAGTGGCTGTACAGGGAGATTGGGGACAGCCACCTGCTCCGGTATC
TCTCCTGGACTGTGTACCCTGTGGCCCTCGTCTCTTTCTCTTCGGGCTTCTCTCAGAGCATCACACCCTC
CTCTGGAGGTTCTGGAATCCCGGAGGTGAAGACCATGTTGGCGGGTGTGGTCTTGGAGGACTACCTGGAT
ATCAAGAACTTTGGGGCCAAAGTGGTGGGCCTCTCCTGCACCCTGGCCTGTGGCAGCACCCTCTTCCTCG
GCAAAGTGGGCCCTTTCGTGCACCTGTCTGTGATGATGGCTGCCTACCTGGGCCGTGTGCGCACCACGAC
CATCGGGGAGCCTGAGAACAAGAGCAAGCAAAACGAAATGCTGGTGGCAGCGGCGGCAGTGGGCGTGGCC
ACAGTCTTTGGCGCTCCCTTCAGCGGCGTCCTGTTCAGCATCGAGGTCATGTCTTCCCACTTCTCTGTCT
GGGATTACTGGAGGGGCTTCTTTGCGGCCACCTGCGGGGCCTTCATGTTCCGGCTCCTGGCGGTCTTCAA
CAGCGAGCAGGAGACCATCACCTCCCTCTACAAGACCAGTTTCCGGGTGGACGTTCCCTTCGACCTGCCT
GAGATCTTCTTTTTTGTGGTGCTGGGGGGTCTCTGCGGCATCCTGGGCAGCGCTTACCTCTTCTGTCAGC
GAATCTTCTTTGGCTTCATCAGGAACAATAGGTTCAGCTCCAAACTGCTGGCCACCAGCAAGCCTGTGTA
CTCCGCTCTGGCCACCTTGGTTCTCGCCTCCATCACCTACCCACCCAGCGCCGGCCGCTTCCTAGCTTCT
CGGCTGTCCATGAAGCAGCATCTGGACTCGCTGTTCGACAACCACTCCTGGGCGCTGATGACCCAGAACT
CCAGCCCACCCTGGCCCGAGGAGCTCGACCCCCAGCACCTGTGGTGGGAATGGTACCACCCGCGGTTCAC
CATCTTTGGGACCCTTGCCTTCTTCCTGGTTATGAAGTTCTGGATGCTGATTCTGGCCACCACCATCCCC
ATGCCTGCCGGGTACTTCATGCCCATCTTTGTCTATGGAGCTGCTATCGGGCGCCTCTTTGGGGAGACTC
TCTCTTTTATCTTCCCTGAGGGCATCGTGGCTGGAGGGATCACCAATCCCATCATGCCAGGGGGGTATGC
TCTGGCAGGGGCTGCAGCCTTCTCAGGGGCTGTGACCCACACCATCTCCACGGCGCTGCTGGCCTTCGAG
GTGACCGGCCAGATAGTGCATGCACTGCCCGTGCTGATGGCGGTGCTGGCAGCCAACGCCATTGCACAGA
GCTGCCAGCCCTCCTTCTATGATGGCACCGTCATTGTCAAGAAGCTGCCATACCTGCCACGGATTCTGGG
CCGCAACATCGGTTCCCACCGCGTGAGGGTGGAGCACTTCATGAACCACAGCATCACCACACTGGCCAAG
GACACGCCACTGGAGGAGGTGGTCAAGGTTGTGACCTCCACAGACGTGGCCGAGTATCCCTTGGTGGAGA
GCACAGAGTCCCAGATCCTGGTGGGCATAGTGCGAAGGGCCCAGCTGGTGCAGGCCCTGAAGGCTGAGCC
TCCTTCCTGGGCTCCTGGACACCAGCAGTGTCTCCAGGACATCTTGGCTGCAGGCTGCCCCACAGAACCA
GTGACCCTGAAGCTGTCCCCAGAGACTTCCCTGCATGAGGCACACAACCTCTTTGAGCTGTTGAACCTTC
ATTCCCTCTTTGTGACGTCGCGGGGCAGAGCTGTGGGCTGCGTGTCCTGGGTGGAGATGAAGAAAGCAAT
TTCCAACCTGACAAATCCGCCAGCCCCAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219199 representing NM_000085
Red=Cloning site Green=Tags(s)

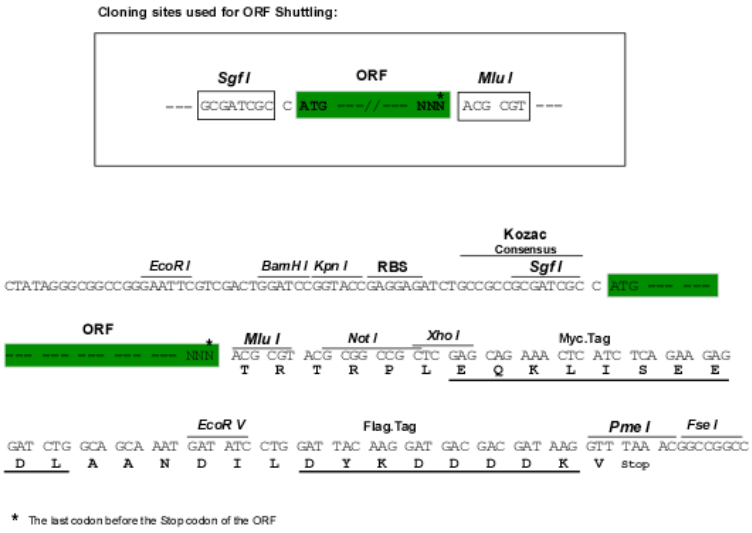
MEEFVGLREGSSGNPVTLQELWGPCPLIRRGIRGGLEWLKQKLFRLGEDWYFLMTLGVLMALVSCAMDLA
VESVVRAHQWLYREIGDSHLLRYLSWTVYPVALVSFSSGFSQSITPSSGGSGIPEVKTMLAGVVLEDYLD
IKNFGAKVVGLSCTLACGSTLFLGKVGPFVHLSVMMAAYLGRVRTTTIGEPENKSKQNEMLVAAAAVGVA
TVFGAPFSGVLFSIEVMSSHFSVWDYWRGFFAATCGAFMFRLLAVFNSEQETITSLYKTSFRVDVPFDLP
EIFFFVVLGGLCGILGSAYLFCQRIFFGFIRNNRFSSKLLATSKPVYSALATLVLASITYPPSAGRFLAS
RLSMKQHLDSLFDNHSWALMTQNSSPPWPEELDPQHLWWEWYHPRFTIFGTLAFFLVMKFWMLILATTIP
MPAGYFMPIFVYGAAIGRLFGETLSFIFPEGIVAGGITNPIMPGGYALAGAAAFSGAVTHTISTALLAFE
VTGQIVHALPVLMAVLAANAIAQSCQPSFYDGTVIVKKLPYLPRILGRNIGSHRVRVEHFMNHSITTLAK
DTPLEEVVKVVTSTDVAEYPLVESTESQILVGIVRRAQLVQALKAEPPSWAPGHQQCLQDILAAGCPTEP
VTLKLSPETSLHEAHNLFELLNLHSLFVTSRGRAVGCVSWVEMKKAISNLTNPPAPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8001_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000085

ORF Size: 2061 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 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_000085.1, NP_000076.1

RefSeq Size: 2163 bp

RefSeq ORF: 2064 bp

Locus ID: 1188

UniProt ID: P51801

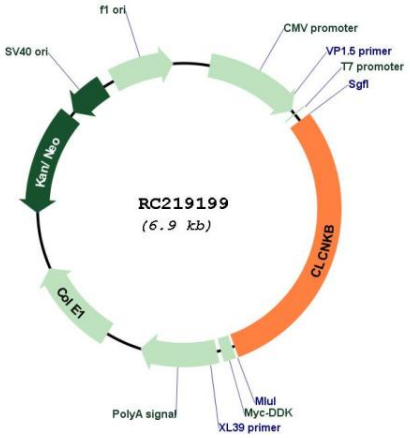
Cytogenetics: 1p36.13

Protein Families: Druggable Genome, Transmembrane

MW: 75.3 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]

Product images:



Circular map for RC219199