

## Product datasheet for **RG219199**

### CLCNKB (NM\_000085) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLCNKB (NM_000085) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLCNKB
Synonyms:	CIC-K2; CIC-Kb; CLCKB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG219199 representing NM\_000085  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGAGTTTGTGGGCTGCGTGAAGGCTCCTCAGGGAACCCTGTGACTCTGCAGGAGCTGTGGGCC  
 CCTGTCCCCTCATCCGCCGAGGCATCCGAGGTGGCCTGGAGTGGCTGAAGCAGAAGCTCTCCGCCTGGG  
 CGAGGACTGGTACTTCTGATGACCCTCGGGTGTCTATGGCCCTGGTCAGCTGTGCCATGGACTTGGCT  
 GTTGAGAGTGTGGTCCGAGCGCACCAGTGGCTGTACAGGAGATTGGGGACAGCCACCTGCTCCGGTATC  
 TCTCTGGACTGTGTACCCTGTGGCCCTCGTCTCTTTCTCTTCGGGCTTCTCTCAGAGCATCACACCCTC  
 CTCTGGAGTTCTGGAATCCCGGAGGTGAAGACCATGTTGGCGGGTGTGGTCTTGGAGGACTACCTGGAT  
 ATCAAGAACTTTGGGGCCAAAGTGGTGGCCTCTCCTGCACCCTGGCCTGTGGCAGCACCCTCTTCTCG  
 GCAAAGTGGGCCCTTTCGTGCACCTGTCTGTGATGATGGCTGCCTACCTGGGCCGTGTGCGCACCACGAC  
 CATCGGGGAGCCTGAGAACAAGAGCAAGCAAAAACGAAATGCTGGTGGCAGCGCGGCAGTGGGCGTGGCC  
 ACAGTCTTTGGCGCTCCCTTCAGCGGCGTCTGTTTCAGCATCGAGGTGATGTCTTCCACTTCTCTGTCT  
 GGGATTACTGGAGGGGCTTCTTTGCGGCCACCTGCGGGGCTTTCATGTTCCGGCTCCTGGCGGTCTTCAA  
 CAGCGAGCAGGAGACCATCACCTCCCTCTACAAGACAGTTTCCGGGTGGACGTTCCCTTCGACCTGCCT  
 GAGATCTTCTTTTTGTGGTGTGGGGGTCTCTGCGGCATCCTGGGCAGCGCTTACCTCTTCTGTGACG  
 GAATCTTCTTTGGCTTCATCAGGAACAATAGGTTACAGTCCAAACTGCTGGCCACCAGCAAGCCTGTGTA  
 CTCCGCTCTGGCCACCTTGGTTCTCGCTCCATCACCTACCCACCCAGCGCCGGCCGCTTCTAGCTTCT  
 CGGCTGTCCATGAAGCAGCATCTGGACTCGTGTTCGACAACCACTCCTGGGCGTGTGACCCAGAAT  
 CCAGCCCACCTGGCCCGAGGAGCTCGACCCCGAGCACCCTGTGGTGGGAATGGTACCACCCGCGGTTAC  
 CATCTTTGGGACCCTTGCCTTCTTCTGGTTATGAAGTTCTGGATGCTGATTCTGGCCACCACCATCCCC  
 ATGCCTGCCGGTACTTCATGCCATCTTTGTCTATGGAGCTGCTATCGGGCGCCTCTTTGGGGAGACTC  
 TCTTTTTATCTTCCCTGAGGGCATCGTGGCTGGAGGGATCACCAATCCCATCATGCCAGGGGGTATGC  
 TCTGGCAGGGGCTGCAGCCTTCTCAGGGGCTGTGACCCACACCATCTCCACGGCGCTGTGGCCTTCGAG  
 GTGACCGGCCAGATAGTGCATGCACTGCCCGTGTGATGGCGGTGCTGGCAGCCAACGCCATTGCACAGA  
 GCTGCCAGCCCTCTTCTATGATGGCACCGTCATTGTCAAGAAGCTGCCATACCTGCCACGGATTCTGGG  
 CCGCAACATCGGTTCCACCGCGTGGGGTGGAGCACTTCATGAACCACAGCATACCACACTGGCCAAG  
 GACACGCCACTGGAGGAGTGGTCAAGGTTGTGACCTCCACAGACGTGGCCGAGTATCCCTTGGTGGAGA  
 GCACAGAGTCCCAGATCCTGGTGGGCATAGTGCGAAGGGCCAGCTGGTGCAGGCCTGAAGGCTGAGCC  
 TCCTTCTGGGCTCCTGGACACCAGCAGTGTCTCCAGGACATCTTGGCTGCAGGCTGCCCCACAGAACCA  
 GTGACCCTGAAGCTGTCCCAGAGACTTCCCTGCATGAGGCACACAACCTCTTTGAGCTGTTGAACCTTC  
 ATTCCTCTTTGTGACGTGCGGGGCGAGAGCTGTGGGCTGCGTGTCTGGGTGGAGATGAAGAAAGCAAT  
 TTCCAACCTGACAAATCCGCCAGCCCCAAAG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG219199 representing NM\_000085  
 Red=Cloning site Green=Tags(s)

MEEFVGLREGSSGNPVTLQELWGPCPLIRRGIRGGLEWLKQKLFRLGEDWYFLMTLGVLMALVSCAMDLA  
 VESVVRHQWLYREIGDShLLRYLSWTVYPVALVSFSSGFSQSIPTSSGGSGIPEVKTMLAGVVLEDYLD  
 IKNFGAKVVGLSCTLACGSTLFLGKVGPFVHLSVMMAAYLGRVRTTTIGEPENKSKQNEMLVAAAAVGVA  
 TVFGAPFSGVLFSEVMSSHFSVWDYWRGFFAATCGAFMFRLAVFNSEQETITSLYKTSFRVDVPPFDLP  
 EIFFFVVLGGLCGILGSAYLFCQRIFFGFIRNNRFSSKLLATSKPVYSALATLVLASITYPPSAGRFLAS  
 RLSMKQHLDLSLFDNHSWALMTQNSSPPWPEELDPQHLWWEWYHPRFTIFGTLAFFLVMKFWMLILATTIP  
 MPAGYFMPIFVYGAAIGRLFGETLSFIFPEGIVAGGITNPIMPGGYALAGAAAFSGAVTHTISTALLAFE  
 VTGQIVHALPVLMAVLAANAIAQSCQPSFYDGTIVVKKLPYLPRILGRNIGSHRVRVEHFMNHSITTLAK  
 DTPLEEVKVVSTSDVAEYPLVESTESQILVGIVRRAQLVQALKAEPSSWAPGHQQLQDILAAGCPTPE  
 VTLKLSPETSLHEAHNLFELNLHSLFVTSRGRAVGCVSWVEMKKAISNLTNPPAPK

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

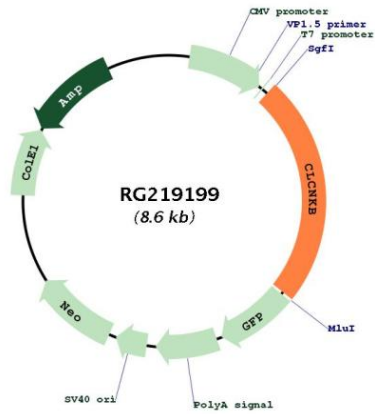


**ACCN:** NM\_000085

**ORF Size:** 2061 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_000085.1</a>, <a href="#">NP_000076.1</a></p>
<b>RefSeq Size:</b>	<p>2163 bp</p>
<b>RefSeq ORF:</b>	<p>2064 bp</p>
<b>Locus ID:</b>	<p>1188</p>
<b>UniProt ID:</b>	<p><a href="#">P51801</a></p>
<b>Cytogenetics:</b>	<p>1p36.13</p>
<b>Protein Families:</b>	<p>Druggable Genome, Transmembrane</p>
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RG219199