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# Product datasheet for SC327059

## CLCNKB (NM_001165945) Human Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | CLCNKB (NM_001165945) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | CLCNKB |
| **Synonyms:** | ClC-K2; ClC-Kb; CLCKB |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

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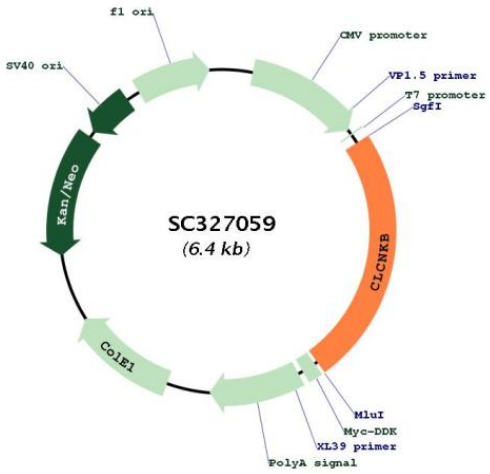
**Fully Sequenced ORF:**

>SC327059 representing NM_001165945.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCCTGCCCTCCCCTCCTGTCTGTCCCTGTCCGGGCTGCAGGAGAGCAGGACAGATGGGTCAGGGAG
GAGGTGACATGGGGAGGGGGTCCTACAGTCACAGGTGGGTGGGGGTGGAGGGCCCACCTGAGATCAGTG
TCGCCCCCAGGCGTCCTGTTCAGCATCGAGGTCATGTCTTCCCACTTCTCTGTCTGGGATTACTGGAGG
GGCTTCTTTGCGGCCACCTGCGGGGCCTTCATGTTCCGGCTCCTGGCGGTCTTCAACAGCGAGCAGGAG
ACCATCACCTCCCTCTACAAGACCAGTTTCCGGGTGGACGTTCCCTTCGACCTGCCTGAGATCTTCTTT
TTTGTGGCGCTGGGGGGTCTCTGTGGCATCCTGGGCAGCGCTTACCTCTTCTGTCAGCGAATCTTCTTT
GGCTTCATCAGGAACAATAGGTTCAGCTCCAAACTGCTGGCCACCAGCAAGCCTGTGTACTCCGCTCTG
GCCACCTTGGTTCTCGCCTCCATCACCTACCCACCCAGCGCCGGCCGCTTCCTAGCTTCTCGGCTGTCC
ATGAAGCAGCATCTGGACTCGCTGTTCGACAACCACTCCTGGGCGCTGATGACCCAGAACTCCAGCCCA
CCCTGGCCCGAGGAGCTCGACCCCCAGCACCTGTGGTGGGAATGGTACCACCCGCGGTTCACCATCTTT
GGGACCCTTGCCTTCTTCCTGGTTATGAAGTTCTGGATGCTGATTCTGGCCACCACCATCCCCATGCCT
GCCGGGTACTTCATGCCCATCTTTGTCTATGGAGCTGCTATCGGGCGCCTCTTTGGGGAGACTCTCTCT
TTTATCTTCCCTGAGGGCATCGTGGCTGGAGGGATCACCAATCCCATCATGCCAGGGGGGTATGCTCTG
GCAGGGGCTGCAGCCTTCTCAGGGGCTGTGACCCACACCATCTCCACGGCGCTGCTGGCCTTCGAGGTG
ACCGGCCAGATAGTGCATGCACTGCCCGTGCTGATGGCGGTGCTGGCAGCCAACGCCATTGCACAGAGC
TGCCAGCCCTCCTTCTATGATGGCACCGTCATTGTCAAGAAGCTGCCATACCTGCCACGGATTCTGGGC
CGCAACATCGGTTCCCACCGCGTGAGGGTGGAGCACTTCATGAACCACAGCATCACCACACTGGCCAAG
GACATGCCACTGGAGGAGGTGGTCAAGGTTGTGACCTCCACAGACGTGGCCAAGTATCCCCTGGTGGAG
AGCACAGAGTCCCAGATCCTGGTGGGCATAGTGCGAAGGGCCCAGCTGGTGCAGGCCCTGAAGGCTGAG
CCTCCTTCCTGGGCTCCTGGACACCAGTGTCTCCAGGACATCTTGGCTGCAGGCTGCCCCACAGAACCA
GTGACCCTGAAGCTGTCCCCAGAGACTTCCCTGCATGAGGCACACAACCTCTTTGAGCTGTTGAACCTT
CATTCCCTCTTTGTGACGTCGCGGGGCAGAGCTGTGGGCTGCGTGTCCTGGGTGGAGATGAAGAAAGCA
ATTTCCAACCTGACAAATCCGCCAGCCCCAAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**




**ACCN:** NM_001165945

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| **Insert Size:** | 1554 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). |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001165945.2 |
| **RefSeq Size:** | 2174 bp |
| **RefSeq ORF:** | 1554 bp |
| **Locus ID:** | 1188 |
| **UniProt ID:** | P51801 |
| **Cytogenetics:** | 1p36.13 |
| **Protein Families:** | Druggable Genome, Transmembrane |
| **MW:** | 57 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]<br>Transcript Variant: This variant (2) has a different 5' UTR, uses an alternate splice site in the 3' coding region, and initiates translation from a different start codon compared to variant 1. This results in a shorter isoform (2) with a distinct N-terminus compared to isoform 1.<br>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. |