

Product datasheet for **RC228424**

CLCNKB (NM_001165945) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCNKB (NM_001165945) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLCNKB
Synonyms:	CIC-K2; CIC-Kb; CLCKB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC228424 representing NM_001165945
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCTGCCCTCCCCTCCTGTCTGTCCCTGTCCGGGCTGCAGGAGAGCAGGACAGATGGGTGAGGGAGG
 AGGTGACATGGGGAGGGGTCTACAGTCACAGGTGGGTGGGGTGGAGGGCCACCTGAGATCAGTGTC
 GCCCCAGGCGTCTGTTCAGCATCGAGGTCATGTCTTCCCACTTCTCTGTCTGGGATTACTGGAGGGG
 TTCTTTGCGGCCACCTGCGGGCCCTTTCATGTTCCGGCTCCTGGCGGTCTTCAACAGCGAGCAGGAGACCA
 TCACCTCCCTCTACAAGACCAGTTTCCGGGTGGACGTTCCCTTCGACCTGCCTGAGATCTTCTTTTTTGT
 GCGCTGGGGGTCTCTGTGGCATCCTGGGCAGCGTTACCTCTTCTGTGACGGAATCTTCTTTGGCTTC
 ATCAGGAACAATAGTTTCAGCTCCAACTGCTGGCCACCAGCAAGCTGTGTACTCCGCTCTGGCCACCT
 TGGTTCTCGCTCCATCACCTACCCACCAGCGCCGGCGCTTCTAGCTTCTCGGCTGTCCATGAAGCA
 GCATCTGGACTCGCTGTTGACAACCACTCCTGGGCGCTGATGACCCAGAATCCAGCCACCCTGGCCC
 GAGGAGCTCGACCCAGCACCTGTGGTGGGAATGGTACCACCCGCGTTACCATCTTTGGGACCCCTTG
 CCTTCTTCTGGTTATGAAGTTCTGGATGCTGATTCTGGCCACCACCATCCCCATGCCTGCCGGGTA
 CATGCCATCTTTGTCTATGGAGCTGCTATCGGGCGCCTTTGGGGAGACTCTCTTTTATCTTCCCT
 GAGGGCATCGTGGCTGGAGGGATACCAATCCCATCATGCCAGGGGGTATGCTCTGGCAGGGGCTGCAG
 CCTTCTCAGGGGCTGTGACCCACACCATCTCCACGGCGCTGTGGCTTCGAGGTGACCGGCCAGATAGT
 GCATGCACTGCCCGTCTGATGGCGGTGCTGGCAGCCAACGCCATTGCACAGAGCTGCCAGCCCTCTTC
 TATGATGGCACCCTCATTGTCAAGAAGCTGCCATACCTGCCACGATTCTGGGCCGAACATCGTTCCC
 ACCGCGTGAGGGTGGAGCACTTTCATGAACCACAGCATCACCACTGGCCAAGGACATGCCACTGGAGGA
 GGTGGTCAAGGTTGTGACCTCCACAGACGTGGCCAAGTATCCCCTGGTGGAGAGCACAGAGTCCCAGATC
 CTGGTGGGCATAGTGCAGGGGCCAGCTGGTGCAGGCCCTGAAGGCTGAGCCTCCTTCTGGGCTCCTG
 GACACCAGTGTCTCCAGGACATCTTGGCTGCAGGCTGCCCCACAGAACCAGTGACCCTGAAGCTGTCCC
 AGAGACTTCCCTGCATGAGGCACACAACCTCTTTGAGCTGTTGAACCTTCATTCCCTCTTTGTGACGTCG
 CGGGCAGAGCTGTGGGCTGCGTGTCTGGGTGGAGATGAAGAAAGCAATTTCCAACCTGACAAATCCGC
 CAGCCCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228424 representing NM_001165945
 Red=Cloning site Green=Tags(s)

MPCPPLL SVPVRAAGEQDRWREEVTWGGGPTVTGGWGWRAHLRSVSPPGVLF SIEVMSSHFSVWDYWRG
 FFAATCGAFMFRL LAVFNSEQETITSLYKTSFRVDVDFDLPEIFFFVALGGLCGILGSAYLFCQRIFFGF
 IRNRFSSKLLATSKPVYSALATLVLASITYPPSAGRFLASRLSMKQHLDSLFDNHSWALMTQNSSPPWP
 EELDPQHLWWEVYHPRFTIFGTLAFFLVMKFWMLILATTIPMPAGYFMPIFVYGAAIGRLFGETLSFIFP
 EGIVAGGITNPIMPGGYALAGAAAFSGAVTHTISTALLAFEVTGQIVHALPVLMAVLAANAIAQSCQPSF
 YDGTIVKKL PYLPRILGRNIGSHRVRVEHFMNHSITTLAKDMPLEEVKVVSTDVAKYPLVESTESQI
 LVGIVRRAQLVQALKAEPSSWAPGHQCLQDILAAGCPTEPVTLKLSPELHSLFELLNLHSLFVTS
 RGRAVGCVSWVEMKKAISNL TNPPAPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8065_a11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001165945

ORF Size: 1487 bp

OTI Disclaimer: 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_001165945.2](#), [NP_001159417.2](#)

RefSeq ORF: 1554 bp

Locus ID: 1188

UniProt ID: [P51801](#)

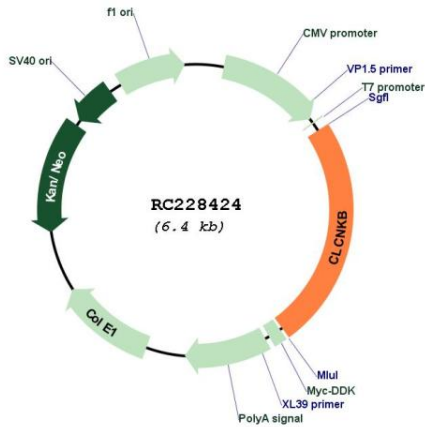
Cytogenetics: 1p36.13

Protein Families: Druggable Genome, Transmembrane

MW: 56.9 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 RC228424