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Product datasheet for SC122220

CLCNKB (BC020873) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCNKB (BC020873) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCNKB
Synonyms:	Chloride channel, kidney, B; chloride channel Kb; ClC-K2; CLCKB; hClC-Kb; MGC24087; OTTHUMP00000011120
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

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>OriGene sequence for BC020873 edited
GGGGGGAGGATGTTGATTGTTGGAACACACACCTGTCCAGGTTCAGGGGAGCTGGAGGCT
CTGTGAGAGGAGGGCCAGCTCAGCCACAGCAGGAGGACTGACAGGGGCCTGATGGAGGAG
TTTGTGGGGCTGCGTGAAGGCTCCTCAGGGAACCCTGTGACTCTGCAGGAGCTGTGGGGC
CCCTGTCCCCGCATCCGCCGAGGCATCCGAGGTGGCCTGGAGTGGCTGAAGCAGAAGCTC
TTCCGCCTGGGCGAGGACTGGTACTTCCTGATGACCCTCGGGGTGCTCATGGCCCTGGTC
AGCTGTGCCATGGACTTGGCTGTTGAGAGTGTGGTCCGAGCGCACCAGTGGCTGTACAGG
GAGATTGGGGACAGCCACCTGCTCCGGTATCTCTCCTGGACTGTGTACCCTGTGGCCCTC
GTCTCTTTCTCTTCGGGCTTCTCTCAGAGCATCACACCCTCCTCTGGAGGTTCTGGAATC
CCGGAGGTGAAGACCATGTTGGCGGGTGTGGTCTTGGAGGACTACCTGGATATCAAGAAC
TTTGGGGCCAAAGTGGTGGGCCTCTCCTGCACCCTGGCCTGTGGCAGCACCCTCTTCCTC
GGCAAAGTGGGCCCTTTCGTGCACCTGTCTGTGATGATGGCTGCCTACCTGGGCCGTGTG
CGCACCACGACCATCGGGGAGCCTGAGAACAAGAGCAAGCCTGTGTACTCCGCTCTGGCC
ACCTTGGTTCTCGCCTCCATCACCTACCCACCCAGCGCCGGCCGCTTCCTAGCTTCTCGG
CTGTCCATGAAGCAGCATCTGGACTCGCTGTTCGACAACCACTCCTGGGCGCTGATGACC
CAGAACTCCAGCCCACCCTGGCCCGAGGAGCTCGACCCCCAGCACCTGTGGTGGGAATGG
TACCACCCGCGGTTCACCATCTTTGGGACCCTTGCCTTCTTCCTGGTTATGAAGTTCTGG
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TATGGAGCTGCTATCGGGCGCCTCTTTGGGGAGACTCTCTCTTTTATCTTCCCTGAGGGC
ATCGTGGCTGGAGGGATCACCAATCCCATCATGCCAGGGGGGTATGCTCTGGCAGGGGCT
GCAGCCTTCTCAGGGGCTGTGACCCACACCATCTCCACGGCGCTGCTGGCCTTCGAGGTG
ACCGGCCAGATAGTGCATGCACTGCCCGTGCTGATGGCGGTGCTGGCAGCCAACGCCATT
GCACAGAGCTGCCAGCCCTCCTTCTATGATGGCACCGTCATTGTCAAGAAGCTGCCATAC
CTGCCACGGATTCTGGGCCGCAACATCGGTTCCCACCGCGTGAGGGTGGAGCACTTCATG
AACCACAGCATCACCACACTGGCCATCACATTAATGAATGATGAGATTGGAGTACACTGT
CACCAAGGGCAGGCACAGATGGCTTCTGGGGTTGTCTGGTTCCCAGTGAGAGGCTCCTGA
GAAAAATAAAGCTGGTTCCCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

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>OriGene 5' read for BC020873 unedited
NNNCCACTTTGTTCGCATTTGTGTACGACTCATATAGGCGGCCGCGTAATTCGCCATTAC
GGCCGGGGGGGGGGGAGGATGTTGATTGTTGGAACACACACCTGTCCAGGTTCAGGGGAGC
TGGAGGCTCTGTGAGAGGAGGGCCAGCTCAGCCACAGCAGGAGGACTGACAGGGGCCTGA
TGGAGGAGTTTGTGGGGCTGCGTGAAGGCTCCTCAGGGAACCCTGTGACTCTGCAGGAGC
TGTGGGGCCCCTGTCCCCGCATCCGCCGAGGCATCCGAGGTGGCCTGGAGTGGCTGAAGC
AGAAGCTCTTCCGCCTGGGCGAGGACTGGTACTTCCTGATGACCCTCGGGGTGCTCATGG
CCCTGGTCAGCTGTGCCATGGACTTGGCTGTTGAGAGTGTGGTCCGAGCGCACCAGTGGC
TGTACAGGGAGATTGGGGACAGCCACCTGCTCCGGTATCTCTCCTGGACTGTGTACCCTG
TGGCCCTCGTCTCTTTCTCTTCGGGCTTCTCTCAGAGCATCACACCCTCCTCTGGAGGTT
CTGGAATCCCGGAGGTGAAGACCATGTTGGCGGGTGTGGTCTTGGAGGACTACCTGGATA
TCAAGAACTTTGGGGCCAAAGTGGTGGGCCTCTCCTGCACCCTGGCCTGTGGCAGCACCC
TCTTCCTCGGCAAAGTGGGCCCTTTCGTGCACCTGTCTGTGATGATGGCTGCCTACCTGG
GCCGTGTGCGCACCACGACCCATCGGGAGCCTGAGAACAAGAGCAAGCCTGTGTACTCCG
CTCTGGCCCCTTGGTTCTCGCCTTCATCACCTACCCACCCAGCGCCGGCCGCTTCCTAGC
TTCTCGGCTGTC
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3' Read Nucleotide Sequence:

>OriGene 3' read for BC020873 unedited
GCATGTCACTTCCACGCCAGGAGAGGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGA
TCTGTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGGGCCGAGGCGGCCG
ACATGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCGGGGAACCAGCTTTATTTTCTCA
GGAGCCTCTCACTGGGAACCAGACAACCCCAGAAGCCATCTGTGCCTGCCCTTGGTGACA
GTGTACTCCAATCTCATCATTCATTAATGTGATGGCCAGTGTGGTGATGCTGTGGTTCAT
GAAGTGCTCCACCCTCACGCGGTGGGAACCGATGTTGCGGCCCAGAATCCGTGGCAGGTA
TGGCAGCTTCTTGAACAATGACGGTGCCATCATAGAAAGAGGGCTGGCAGCTCTGTGCAA
TGGCGTTGGGCTGCCAGCCACNCGCCATCAGCACGGGCCAGTGCATTGCACTTATCTTGC
CCGGGTCACCCTCGAAAGGGCCANCAANCGCCCGTTGGNAAAATGGGTGGTGGGGGTTCA
CCAAGGCCCCCCTGTAAGAAAGGGGCTTGGCAAGCCCCCCCTTGCCCCAGGAGAGCATTT
ACCCCCCCCCCTTGGGCCATTGTGATGGGGGGAATTTGGGGGTGGATTCCCCCTTTCCCA
AGCCCCACCGGAATTGGCCCCTCCAGGGGGAGAGGAATATAAAAGGAAGAGGAGTTCTTC
CCCCAAAAAGAAGGCCGCCCCGGATTAGCAAGCTTCCATAAGACAAAAGATGGGGCATGA
AAGTACCCCGGCAGGCATGGGNGATGGTGGTTGCCAAGAATCAGCATCCAGAACTTCTAA
CCCGGAAGAAGGCAAGGTCCCA

Restriction Sites: Please inquire

ACCN: BC020873

Insert Size: 1552 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).

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: BC020873.1, AAH20873.1

RefSeq Size: 1552 bp

RefSeq ORF: 1386 bp

Locus ID: 1188

Cytogenetics: 1p36.13

Protein Families: Druggable Genome, Transmembrane

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]