

Product datasheet for **SC126183**

CLCNKA (NM_004070) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCNKA (NM_004070) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCNKA
Synonyms:	CIC-K1; CLCK1; hCIC-Ka
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_004070 edited
GCCTGATGGAGGAGTTGGTGGGGCTGCGTGAGGGCTTCTCAGGGGACCCTGTGACTCTGC
AGGAGCTGTGGGGCCCTGTCCCCACATCCGCCGAGCCATCCAAGGTGGCCTGGAGTGGC
TAAAGCAGAAGGTGTTCCGCCTGGGAGAAGACTGGTACTTCTGATGACCCTCGGGGTGC
TCATGGCCCTGGTCAGCTATGCCATAAACTTTGCCATCGGGTGTGTGGTCCGAGCACACC
AGTGGCTGTACAGGGAGATTGGGGACAGCCACCTGCTCCGGTATCTTTCCTGGACTGTGT
ACCTGTGGCCCTCGTCTCTTTCTCCTCAGGCTTCTCCAGAGCATCACGCCCTCCTCTG
GAGGTTCTGGAATCCCGAGCTGAAGACCATGTTGGCGGGTGTGATCTTGAGGACTACC
TGGATATCAAGAACTTTGGGGCCAAGGTGGTGGCCTCTCCTGCACCCTGGCCACCGGCA
GCACCCTGTTCTGGGCAAAGTGGGCCCTTTCGTGCACCTGTCTGTAATGATCGTGCCT
ACCTGGGCCGTGTGCGCACCCAGACCATCGGGGAGCCTGAGAACAAGAGCAAGCAAAACG
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GCGTCTGTTTCAGCATCGAGGTGATGTCTTCCACTTCTGTCCGGGATTAAGGAGGG
GCTTCTTTCGGGCCACCTGCGGGCCTTCATATCCGGCTCCTGGCAGTCTTCAACAGCG
AGCAGGAGACCATCACCTCCCTCTACAAGACCAGTTTCCGGTGGACGTTCCCTTCGACC
TGCTGAGATCTTCTTTTTGTGGCGCTGGGTGGCATCTGCGGCTCCTGAGCTGTGCTT
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ACATCGGCTCCACCATGTGAGGGTGGAGCACTTTCATGAACCACAGCATCACCACACTGG
CCAAGGACACGCCGCTGGAGGAGGTGGTCAAGGTTGTGACCTCCACAGACGTGACCGAGT
ATCCCCTGGTGGAGAGCACAGAGTCCCAGATCCTGGTAGGCATCGTGCAGAGGGCCAGC
TGGTGCAGGCCCTCCAGGCTGAGCCTCCTTCCAGGGCTCCAGGACACCAGCAGTGTCTCC
AGGACATCTTGGCCAGGGGCTGCCCCACGGAACAGTGACCTGACGCTATTCTCAGAGA
CCACCTTGACACAGGCACAAAACCTCTTAAAGTGTGAACTTCAGTCCCTCTTCGTGA
CATCGCGGGGAGAGCTGTGGGCTGCGTGTCTGGGTGGAGATGAAGAAAGCAATTTCCA
ACCTGACAAAATCCGCCAGCTCCAAAGTGAAGTGGCCGAGCAAGATGAAACAGGGCACCCC
AGCTGACCTGGTACTGAGGTTGGGCTGAGACCTGCTTCTTCCCCATCACCACCTGC
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GAGGATGGCTCATCCTGGGTGGGACGATGGCTCCTGCCTTGAAAGACAAAAATCCACCT
TGGGCAGAGCTGAGTGTGAGAAGATGAAAACAGTATCTGCCAGGTGCTCAGTGACTGG
CCATCACATTAATGAATGACGAGATTGGAGTACACTGTCACCAAGGGCAGGCAAGATGC
CCTCTGGGTTGTCTGGTCCCAGTGAGAGGCTCCTGAGAAAAATAAAGCTGGTCCCAG
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004070 unedited AGTCATAATTTGTAACGACTCACTATAGGCGGCCGGAATCCCAGGCTGCCTCCACAGT TCTGGTTGGTTTGTCAAGGACGTTTTTAATCTCCACGGTGCAGTGGAGCTGGGAGCAAAG GAGGCTCTGTGAGAGGAGGGCCAGTTCAGCCGACGAGGAGGACTGACAGGGGCTGATG GAGGAGTTGGTGGGGCTGCGTGAGGGCTTCTCAGGGGACCCTGTGACTCTGCAGGAGCTG TGGGGCCCTGTCCCCACATCCGCCGAGCCATCCAAGGTGGCCTGGAGTGGCTAAAGCAG AAGGTGTTCCCGCTGGGAGAAGACTGGTACTTCCCTGATGACCCTCGGGGTGCTCATGGCC CTGGTCAGCTATGCCATGAACTTTGCCATCGGGTGTGTGGTCCGAGCACACCAGTGGCTG TACAGGGAGATTGGGGACAGCCACTGCTCCGGTATCTTCTGACTGTGTACCCTGTG GCCCTCGTCTTCTCCTCAGGCTTCTCCAGAGCATCACGCCCTCCTCTGGAGTTCT GGAATCCCGGAGCTGAAGACCATGTTGGCGGGTGTGATCTTGGAGGACTACCTGGATATC AAGAACTTTGGGGCCAAGGTGGTGGCCTCTCCTGCACCCTGGCCACCGGCAGCACCCCTG TTCCTGGGCAAAGTGGGCCCTTTCGTGCACCTGTCTGTAATGATCGTGCCTACCTGGGC CGTGTGCGCACCACGACCATCGGGGAGCCTGAGAAACAAGCAAGCAAAAACGAAATGCTG GTGGCAGCGGCGCAGTGGGCGTGGCCACAGTCTTTCAGCTCCCTTTCAGCGGCGTCTCT TTCAGCATCGAGTGCATGTCTTCCCACTTCTCTGTCCGATTACTNGGAGGGCTCTTT GCGGCCACCTGCGGGGCTTCATATTCCGGCTCCTGNCAT
Restriction Sites:	Please inquire
ACCN:	NM_004070
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:	<ol style="list-style-type: none"> 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_004070.2 , NP_004061.2
RefSeq Size:	2533 bp
RefSeq ORF:	2064 bp
Locus ID:	1187
UniProt ID:	P51800
Cytogenetics:	1p36.13
Protein Families:	Druggable Genome, Transmembrane

Gene Summary:

This gene is a member of the CLC family of voltage-gated chloride channels. The encoded protein is predicted to have 12 transmembrane domains, and requires a beta subunit called barttin to form a functional channel. It is thought to function in salt reabsorption in the kidney and potassium recycling in the inner ear. The gene is highly similar to CLCNKB, which is located 10 kb downstream from this gene. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).