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Product datasheet for SC311491

CLCNKA (NM_001042704) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLCNKA (NM_001042704) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLCNKA
Synonyms:	ClC-K1; CLCK1; hClC-Ka
Vector:	pCMV6 series

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001042704, the custom clone sequence may differ by one or more nucleotides

ATGGAGGAGTTGGTGGGGCTGCGTGAGGGCTTCTCAGGGGACCCTGTGACTCTGCAGGAG
CTGTGGGGCCCCTGTCCCCACATCCGCCGAGCCATCCAAGGTGGCCTGGAGTGGCTAAAG
CAGAAGGTGTTCCGCCTGGGAGAAGACTGGTACTTCCTGATGACCCTCGGGGTGCTCATG
GCCCTGGTCAGCTATGCCATGAACTTTGCCATCGGGTGTGTGGTCCGAGCACACCAGTGG
CTGTACAGGGAGATTGGGGACAGCCACCTGCTCCGGTATCTTTCCTGGACTGTGTACCCT
GTGGCCCTCGTCTCTTTCTCCTCAGGCTTCTCCCAGAGCATCACGCCCTCCTCTGGAGGT
TCTGGAATCCCGGAGCTGAAGACCATGTTGGCGGGTGTGATCTTGGAGGACTACCTGGAT
ATCAAGAACTTTGGGGCCAAGGTGGTGGGCCTCTCCTGCACCCTGGCCACCGGCAGCACC
CTGTTCCTGGGCAAAGTGGGCCCTTTCGTGCACCTGTCTGTAATGATCGCTGCCTACCTG
GGCCGTGTGCGCACCACGACCATCGGGGAGCCTGAGAACAAGAGCAAGCAAAACGAAATG
CTGGTGGCAGCGGCGGCAGTGGGCGTGGCCACAGTCTTTGCAGCTCCCTTCAGCGGCGTC
CTGTTCAGCATCGAGGTCATGTCTTCCCACTTCTCTGTCCGGGATTACTGGAGGGGCTTC
TTTGCGGCCACCTGCGGGGCCTTCATATTCCGGCTCCTGGCAGTCTTCAACAGCGAGCAG
GAGACCATCACCTCCCTCTACAAGACCAGTTTCCGGGTGGACGTTCCCTTCGACCTGCCT
GAGATCTTCTTTTTTGTGGCGCTGGGTGGCATCTGCGGCGTCCTGAGCTGTGCTTACCTC
TTCTGTCAGCGAACCTTCCTCAGCTTCATCAAGACCAATCGGTACAGCTCCAAACTGCTG
GCTACTAGCAAGCCTGTGTACTCCGCTCTGGCCACCTTGCTTCTCGCCTCCATCACCTAC
CCGCCTGGTGTGGGCCACTTCCTAGCTTCTCGGCTGTCCATGAAGCAGCATCTGGACTCG
CTGTTCGACAACCACTCCTGGGCGCTGATGACCCAGAACTCCAGCCCACCCTGGCCCGAG
GAGCTCGACCCCCAGCACCTTTGGTGGGAATGGTACCACCCGCGGTTCACCATCTTTGGG
ACCCTTGCCTTCTTCCTGGTTATGAAGTTCTGGATGCTGATTCTGGCCACCACCATCCCC
ATGCCTGCCGGGTACTTCATGCCCATCTTTATCCTTGGAGCTGCCATCGGGCGCCTCTTG
GGAGAGGCTCTTGCCGTCGCCTTCCCTGAGGGCATTGTGACTGGAGGGGTTACCAATCCC
ATCATGCCCGGGGGGTATGCTCTGGCAGGGGCTGCAGCCTTCTCAGGGGCTGTGACCCAC
ACCATCTCCACGGCGCTGCTGGCCTTTGAGCTGACCGGCCAGATAGTGCATGCACTGCCC
GTGCTGATGGCGGTGCTGGCAGCCAACGCCATTGCACAGAGCTGCCAGCCCTCCTTCTAT
GATGGCACCATCATTGTCAAGAAGCTGCCATACCTGCCACGGATTCTGGGCCGCAACATC
GGCTCCCACCATGTGAGGGTGGAGCACTTCATGAACCACAGCATCACCACACTGGCCAAG
GACACGCCGCTGGAGGAGGTGGTCAAGGTTGTGACCTCCACAGACGTGACCGAGTATCCC
CTGGTGGAGAGCACAGAGTCCCAGATCCTGGTAGGCATCGTGCAGAGGGCCCAGCTGGTG
CAGGCCCTCCAGGCTGAGCCTCCTTCCAGGGCTCCAGGACACCAGTGTCTCCAGGACATC
TTGGCCAGGGGCTGCCCCACGGAACCAGTGACCCTGACGCTATTCTCAGAGACCACCTTG
CACCAGGCACAAAACCTCTTTAAGCTGTTGAACCTTCAGTCCCTCTTCGTGACATCGCGG
GGCAGAGCTGTGGGCTGCGTGTCCTGGGTGGAGATGAAGAAAGCAATTTCCAACCTGACA
AATCCGCCAGCTCCAAAGTGA

Restriction Sites: Please inquire

ACCN: NM_001042704

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. 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_001042704.1, NP_001036169.1
RefSeq Size:	2553 bp
RefSeq ORF:	2061 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 (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1, resulting in a protein (isoform 2) that is one amino acid shorter than isoform 1.