

Product datasheet for **SC303797**

KCC4 (SLC12A7) (NM_006598) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCC4 (SLC12A7) (NM_006598) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCC4
Synonyms:	KCC4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006598 edited
AGCCATGCCACGAACTTTACGGTGGTGCCCGTGGAGGCTCACGCCGACGGCGGGGGA
CGAGACTGCCGAGCGGACGGAGGCTCCGGGCACCCCGAGGGCCCGAGCCCGAGCGCC
CAGCCCGGGAGATGGAAATCCAAGAGAAAACAGCCATTCTCAACAATGTCGAGGTGGA
ACAAGAGAGCTTCTTTGAAGGGAAGAACATGGCACTTTTCGAGGAGGAGATGGACAGTAA
CCCCATGGTGTCTCGTCTCAACAAGCTGGCCAACTACACCAACTGAGCCAGGGCGT
GGTGGAGCAGGAGGACGAGGAGAGCCGGCGGGGAGGCCAAGGCTCCGCGCATGGG
CACCTTCATCGGCGTCTACCTGCCGTGCCTGCAGAACATCCTGGGCGTCATCCTTCTCT
GCGCTGACGTGGATCGTGGGGTGGCTGGTGTCTGGAGTCTTCTCATCGTGGCCAT
GTGCTGCACATGTACAATGCTGACCGCCATTTCCATGAGTGCATCGCTACCAACGGTGT
GGTCCCAGCTGGCGGGTCTACTACATGATATCGCGCTCGCTGGGACCCGAGTTTGGAGG
CGCTGTCGGCCTCTGCTTCTACCTGGGCACGACGTTTGCAGGGGCCATGTATATTTGGG
GACCATCGAGATTTTTCTGACGTACATCTCCCCGGGTGCGGCCATCTTCCAGGCGGAGGC
TGCAGGTGGCGAGGCGGCCCATGCTGCACAACATGCGTGTGTACGGCACGTGCACGCT
CGTGTCTATGGCCCTGGTGGTCTTCGTGGGCGTCAAGTATGTCAACAAGCTGGCGTGGT
CTTCTGGCCTGCGTCTGTCTCCATCCTGGCCATCTATGCCGGCGTCATCAAGTCTGC
CTTCGACCCCGGACATCCCGGTCTGCCTCCTGGGAACCGCACGCTGTACGGCGCAG
GGCCTTTCTGCAACGGCTCCCAGGCCAGCCCGCCTGTGACGAGTACTTCATCCAGAA
CAAGTCAACGAAATCCAGGGCATCCCGGGCGCGCCAGTGGTGTCTTCTGGAGAACCT
GTGGAGTACGTACGCGCACGCGGGGCGTTTGTGGAGAAGAAAGTGTGCCCTCGGTGCC
CGTGGCAGAGGAGCCGTGCCAGCACACTGCCCTACGTGCTCACCGACATCGCGGCCTC
TTCCACCTGCTGGTTGGCATCTACTTCCCTTCCGTGACCGGTATCATGGCGGGTTCAA
CCGGTCCGGGGACCTCAAGGATGCACAGAAGTCCATCCCCACGGGGACCATCTGGCCAT
AGTGACGACGCTTTTCATCTATCTCTCCTGCATTGTGCTGTTGGGGCCTGCATTGAAGG
CGTGGTCTTACGAGATAAGTTCGGGGAGGCCCTGCAGGGGAACCTGGTTCATCGGCATGCT
GGCCTGGCCCTCCCCTGGGTTCATCGTATCGGCTCCTTCTTCTCCACCTGCGGTGCCG



[View online >](#)

CCTGCAGACCCTCACGGGGCACCGCGCCTACTGCAGGCCATTGCCCGTGACGGCATCGT
 CCCCTTCTGCAGGTGTTTGGCCACGGGAAGCCAACGGGGAGCCACGTGGGCGTGCT
 GCTGACAGTCTCATCTGCGAGACTGGCATCCTCATCGCCTCTCTGGACAGCGTGGCCCC
 GATCCTCTCCATGTTCTTCTCATGTGTACCTGTTCTGTGAACCTGGCCTGCGCCGTGCA
 GACCCTGTACGTACCCCAACTGGCGTCCACGCTTCAAGTTCTACCACTGGACCCTGTC
 CTTTCTGGGTATGAGCCTGTGCCTGGCGTGATGTTTCTGCTCCTGGTACTACGCGCT
 GTCCGCCATGCTCATCGTGGCATCTACAAGTACATCGAGTACCGCGGGGCGAGAA
 GGAGTGGGGCGATGGCATCCGTGGCCTATCCCTGAACGCCGCCGCTACGCCCTGCTGCG
 CGTGGAGCACGGTCCCCCCACACCAAGAACTGGAGGCCCCAGGTGCTGGTGATGCTGAA
 CCTGGACGCGGAGCAGGCCGTGAAGCACCCCGCCTGCTGTCCTTACGTCGACGCTGAA
 GGCCGGCAAGGGCCTGACCATCGTGGGCTCGGTGCTGGAGGGACGTACCTGGACAAGCA
 CATGGAGGCTCAGCGGGCCGAGGAGAACATACGGTCCCTAATGAGCACAGAGAAGACCA
 GGGCTTCTGCCAGCTGGTGGTCTCGTCCAGCCTGCGGGATGGCATGTCCACCTGATCCA
 GTCGGCCGGCCTGGGCGCCTGAAGCACACACGGTGTCTATGGCCTGGCCCGCATCCTG
 GAAGCAGGAGGACAACCCCTTCTCTGGAAGAAGTTTGTAGACACCGTCCGCGACACCAC
 CGCCGCGCACCAGGCTCTGCTGGTGGCCAAGAAGTTCGACTCGTTTCCGCAAAAACAGGA
 GCGCTTCCGGCGGGGCCACATCGACGTGTGGTGGATCGTGCACGACGGCGCATGCTCAT
 GCTGCTGCCCTTCTGCTGCGCCAGCACAAAGGTGTGGAGGAAGTCCCGATGCGTATCTT
 CACCGTGGCCAGGTGGACGACAACAGCATCCAGATGAAGAAGGACCTGCAGATGTTCTT
 GTATCACTTGGCATCAGCGCCGAGGTGGAGGTGGTGGAGATGGTTGAAAACGACATATC
 TGCTTTACCTACGAGAGGACACTAATGATGGAGCAGAGTCCGAGATGCTGAAGCAGAT
 GCAGCTGTCCAAGAACGAGCAGGAGCGAGAGGCCAGCTGATCCACGACAGGAACACCGC
 GTCCACACCGCGGGCAGCCAGGACCAAGCGCCGCTACGCCAGACAAGTGCAGAT
 GACCTGGACACAGGAGAAGCTGATCGCTGAGAAGTACAGGAGCAGAGACACCGCCTATC
 CGGTTTTCAAAGACCTTCTCAGCATGAAGCCGACAGTCCAACGTGAGGCGGATGCACAC
 GGCTGTGAAGCTCAATGGCGTCTCTCAACAAGTCCCAGGATGCGCAGCTGGTCTGCT
 CAACATGCCAGGTCTCCAAAAACCGGCAGGAGACGAGAAGTACATGGAGTTTCTTGA
 AGTCTGACCGAGGGGTGAACAGAGTCTCTGGTCAAGGGTGGCGCCGGGAGGTGAT
 CACCATTAATGCCCCAACAGCATCACGGCACTCTGGACAGGCACGGAGGACGG
 CGTGGGACGCTGGCCCTGGGCTTGGCCAGGGAACAGACGGCAGACACACTGTCCCC
 CAGTGATGCCACCAAGCTGCCATGGGGCTTCTACGGAAGTTTCTAGGCCGTCACTT
 AGGGCTCTCTGTTACAGCTTAAACAGGCTCAGCAAATCAGGGCGTGGCTGGACGATTTCC
 TTGCATCTGAGGGCAGACGCTGCTACCGGAGTGACCTGGACGTGGCCAGATCTTCTCGCA
 GGTCAAGAAGCCAGTGAAGCCCTTGCCTTGGTTTCTGGAAGTCTTTTCTTGGCTGGA
 TTTACCCAGTGGTTAGGTTGCATTTCTACCCCATCCAGAATCTTGAAGAGCACCCG
 GAGCTGAAGCTGTCCCTGATGATGAAGGTGAAACGTGACCCCTGGCCATGGCTCCGCTCA
 GGGCCCCGGTACCTCCGAGTCACTCTGTTCTTGAAGTGTCTTTGTGTTTCTGTACCTCA
 AGGCATGAAGCTGGAGGACTCTGTCCATGCCCCGTGTCACCCTCGTGTGGGAGCCTTGG
 GCTCGGACAGTCCACATTTTATGAGTGAAGCGTGGGCCAGGCCATCTGGAAGGGAA
 TCGGCTTTTCCAGAACGTGGTGGATCATCTGTGCGGTGTGGTGAACAGGTTCAAGTTCA
 TCAAGGCCCTACGCTCCGGGAAGGGGCCCCAGCTGTGGCTCTGCCATGCCGGGCTGTGTT
 TGCAGTGTCCGAGTCTCCATCCACCTTTAGAAAACAGTCACTTCTTTTATAAGCACT
 GACAGGGCCAGCCACAGCCACAGGTGCGATCAGTGCCTCACGCAGGCAATGCACTGA
 AACCCAGGGGCACACGCGCGCAGAGTGAACAGTGAAGTCCCCCGACGCCACGACAGCC
 AGGACTGCCCTCCCCACCCACCCACCCAGGAGCACGGCACACAGTTACGCTCTGAG
 CTGGCTCACACGTGCCATCCCCACCCGGTGTCCAGGGAAGGAGACACGGACCCGACG
 TGGGAGGTCTCAGGCAGCAGTGGCGCCTGGTGTGAGTCTGTCTGGCTGAGTCCCGGGC
 GTCCCCTGCCATGGCCTGTGCCTTGCATGGAGGCGCGGTGGCACTGAAGAGATAGCTTT
 CAAGGGCCCAACACTTTGCACTTCCGGCTGGCTGTGAGTTTCTGCTTTGTAGGTTGTGGT
 ACATTTGCAGGCTGCGGGCAGTGGCACCAGTGGGCTCCCTTTCTATGTGGCATATTT
 ATTTATTTAAACACCCAGGGAGTTACGTGGTAAACAGGTTGTCCATAAAGAGGTTGCTT
 CTATACTAGAGGCCCCAGATGGCAGGCTTGGGCTACGCTGGCTTGCATGGTCTCCC

AAGGGAATCAACCCCATCAACAAAGTTCAAATCGGGGCAGAGGCTGCACTTGTGCCCCA
 GATGTTTCTGAGGAGCCAGATTAGGGCTGGCATTGCTGTAGAGTGACGGCTGCTGCCAG
 AGCGTGTCCCAGACATCACAGCGGGGCTCAGCAGTTCACACAGCCTCTGCCTGCCTTGGC
 TAAGCATGAGTTAAGCAGCAAACGCTCCTCCATGTCTGGATGGGGCCGGCAGGTCTGT
 GTCCCCTGACCTGGAGGAGAGCAGGCTAGAGGCACAGCGCCACATGGTGTGGCTCTG
 AACGTTGGTTGGTGGCTGAAAAACAGCCCTGCTTCTGAGGGCCGCTCAGTTCTGCACAG
 AAACCACTCCTGAGGGCTCAGCTGCCCCCGCCCTGGGCTGCAGCCTCTGCACGCAAG
 CACAGGCATCCTTTGTGTTGTCAACTCCGTGTAAACAGTAACTACAGCCATTTACAATT
 GACTCCGTTTCTTTGTAGTTTCCCTGTCTGTGTAGTAGAAAAATAAAATCCT
 ATGAAATCTGAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006598 unedited
 GGTTTACATTTGTAACAGACTCATATAGGCGGCCGATAAATTCGTATAGCATAATTA
 TACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGAGCGCG
 GCCGGCCGGGACGGGGACTGTCGGCTGCAGGCGCCATGCCACCAACTTCACCGTGT
 GCCCGTGGAGGCTCACGCCGACGCGGGGGACGAGACTGCCGAGCGGACGGAGGCTCC
 GGGCACCCCGAGGGCCCGAGCCGAGCGCCAGCCGGGAGATGAAATCCAAGAGA
 AAACAGCCATTCTCAACAATGTCGAGGTGGAACAAGAGAGTTCTTTGAAGGGAAGAA
 CATGGCACTTTTCGAGGAGGAGATGGACAGTAACCCATGGTGTCTCGCTGCTCAACAA
 GCTGGCCAACTACACCACTGAGCCAGGGCGTGGTGGAGCACGAGGAGGACGAGGAGAG
 CCGGCGGGGAGGCCAAGGCTCCGCGCATGGGCACCTTCATCGGCGTCTACCTGCCGTG
 CCTGCAGAACATCTGGGCGTCATCTCTCTCGCCTGACGTGGATCGTGGGGTGGC
 TGGTGTCTGGAATCCTTCTCATCGTGCCATGTGCTGCACATGTACAATGCTGACCGC
 CATTTCCATGAGTGCATCGCTACCAACGGTGTGGTCCCAGCTGGCGGGTCTAATACAT
 GATATCGCGCTCGCTGGGACCCCAATTTTGAAGCCGCTGTCGGGCCTCTGGCTTCTAC
 CTGGGGCACCAAGTTTTCAGGGGGCCATGGTATATTTTGGGGACCCAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006598 unedited
 NAGCACTGGAGNAGGGTACAGGNTGCCACCCGGGATCTGTTTCAGAAAAGCTATGACCG
 CGGCCGCAATCTAGAGTCGACAAGCTTGATATCGGTACCGGGCCCCCCTCGAAGATCAG
 GCCCTTATGGCCGGATCCAGCGCTGGAGAGTTTTTTTTTTTTTTTTCAGATTTTCATAGGA
 TTTTATTTTTCTACTAACACAGACAGACAGGAAACCTACAAAAGGAAACGGAGTCAATT
 GTAAATGGCTGTAGTTACTGGTTACACGGAGTTGACAACAAAGGATGCCTGGTGTG
 CGTGCAGAGGCTGCAGCCAGGGCGGGGACAGCTGAGCCCTCAGGAGGTGGTTTCGTG
 TGCAGAACTGAGCGGCCCTCAGAAGCAGGGCTGTTTTCCAGCCACCAACCAACGTTTCA
 GCCAGCACCATGTGGCCGCTGTGCCTTAGCCTGCTCCTCCAGGTGCAGGGGACACAG
 GACCTGCCGGCCCATCCAGACATGGAGGAGCGTTTTGCTGCTTAACTCATGCTTAAACCA
 AGGCAGGCAGAGGCTGTGGACCTGCTTGACCCCGCTGTGATGTCTGGGACACGCTTTGG
 GCAAGCACCGGTACTCTACAGCAATGCCAGCCCTATTCTGGCTCCTCAAAACATCTGGGG
 CCCAAGTGCAGCCTCTGAGCCGATTTGAACTTTGTTGAAGGGGCTTGTCTCCCTTGGGGA
 GAACCTGCAAAACCAAACTATGCCAAAGGCCCTGGCCCTTTTGGGGCCCTTTTATTTTT
 TAAAAAACAACTTTTTTTTGGGCAACCCTTTGTACCCCCCTTCTTCCCTGGAGGTGT
 TAAAAATAATAAAATTTGCCCTTAAGAAG

Restriction Sites:

Please inquire

ACCN:

NM_006598

Insert Size:

5300 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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_006598.1 , NP_006589.1
RefSeq Size:	5239 bp
RefSeq ORF:	3252 bp
Locus ID:	10723
UniProt ID:	Q9Y666
Cytogenetics:	5p15.33
Protein Families:	Transmembrane
Gene Summary:	Mediates electroneutral potassium-chloride cotransport when activated by cell swelling. May mediate K(+) uptake into Deiters' cells in the cochlea and contribute to K(+) recycling in the inner ear. Important for the survival of cochlear outer and inner hair cells and the maintenance of the organ of Corti. May be required for basolateral Cl(-) extrusion in the kidney and contribute to renal acidification (By similarity).[UniProtKB/Swiss-Prot Function]