

Product datasheet for **SC327272**

SLC12A4 (NM_001145963) Human Untagged Clone

Product data:

| | |
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| Product Type: | Expression Plasmids |
| Product Name: | SLC12A4 (NM_001145963) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | SLC12A4 |
| Synonyms: | CTC-479C5.17; hKCC1; KCC1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001145963, the custom clone sequence may differ by one or more nucleotides |

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ATGGCAGCCGAAGGTGCTGTGTGCGGCTTCGTCTATCTGGAGGGCACTGCCTGGGCGGTC
CCTGAGGACACCGAACCCCTTGGCATCCTGCACATTGGGACATGGCAACCACAGAGAGAGC
AGCCCTTTTCTTTCCCCCTTGGAGGCTTCCAGAGGAATTGACTACTATGACAGGAACCTG
GCACTGTTTGAGGAAGAGCTGGACATCCGCCCAAAGGTATCGTCTCTTCTGGAAAGCTC
GTCAGCTACACCAACCTCACCCAGGGCGCCAAAGAGCATGAGGAGGCCGAGAGTGGGGAG
GGCACCCGCCGGAGGGCAGCCGAGGCACCCAGCATGGGCACCCTCATGGGGGTGTACCTG
CCCTGCCTGCAGAATATCTTTGGGGTTATCCTCTTCTGCGGCTGACCTGGATGGTGGGC
ACAGCAGGTGTGCTACAGGCCCTCCTCATCGTGCTTATCTGCTGCTGTTGTACCCTGCTG
ACGGCCATCTCCATGAGTGCCATCGCCACCAACGGTGTGGTTCCAGCTGGGGGCTCCTAT
TTCATGATCTCTCGTTCCTGAGGAGGCTGTGGGCTGTGCTTCTAC
CTGGGAACAACATTCGCAGCAGCCATGTACATCCTGGGGGCCATCGAGATCTTGCTGACC
TACATTGCCCCACCAGCTGCCATTTTTTACCCATCGGGTGCTCATGACACGTGCAATGCC
ACTTTGAACAATATGCGTGTGTATGGGACCATTTTCTGACCTTCATGACCCTGGTGGTG
TTTGTGGGGTCAAGTATGTGAACAAATTTGCCTCGCTCTTCTGGCCTGTGTGATCATC
TCCATCCTCTCCATCTATGCTGGGGGCATAAAGTCTATATTTGACCCTCCCGTGTTCGG
GTATGCATGCTGGGCAACAGGACCCTGTCCCGGACCAGTTTGACATCTGTGCCAAGACA
GCTGTAGTGGACAATGAGACAGTGGCCACCCAGCTATGGAGTTTCTTGCCACAGCCCC
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AGCCTGCCTCTGTACGTGGTGTGCTGACATCGCCACATCCTTACCCTGCTGGTGGCAGC
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GCCAGAAGTCTATCCCTGTGGGACCATTCTGGCCATCATTACAACCTCCCTCGTGTAC
TTCAGCAGTGTGGTTCTCTTTGGTGCCTGCATTGAGGGTGTGGTTCTCCGGGACAAGTAT
GGCGATGGTGTGACAGGAACCTTGGTGGTGGGCACACTGGCCTGGCCTTACCCTGGGTC

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ATCGTCATCGGCTCCTTCTTTTCAACGTGTGGCGCTGGCCTCCAGAGCCTCACAGGGCA
CCACGCCTATTGCAGGCCATTGCCAAGGACAACATCATCCCCTTCTCCGGGTGTTTGGC
CACGGGAAGGTGAATGGTGAACCCACATGGGCACTCCTCCTGACGGCACTCATCGCCGAG
CTGGGCATCCTCATCGCCTCCCTCGACATGGTGGCCCCCATCTTATCCATGTTCTTTCTG
ATGTGCTACCTGTTTCGTGAACCTCGCCTGTGCGGTGCAGACACTCCTGAGGACCCCAAC
TGGCGGCCCGGTTCAAGTACTATCACTGGGCGCTGTCTTCTGGGCATGAGTCTCTGC
CTGGCCCTTATGTTTGTCTCCTCCTGGTACTATGCCCTGGTGGCCATGCTCATCGCCGG
ATGATCTACAAATACATCGAGTACCAAGGGGCTGAGAAGGAGTGGGGTGACGGGATCCGA
GGCCTGTCCCTGAGCGCTGCCCGCTACGCGCTGTTGCGGCTGGAGGAGGGCCTCCTCAC
ACCAAGAAGTGGCGGCCGAGCTGCTGGTGTGCTGAAGCTGGACGAGGACCTCCACGTG
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CAGACCATCAAGAACATGATGAAATTGAGAAGGTGAAGGGCTTCTGCCAGGTGGTGGT
GCCAGCAAGGTGCGGGAGGGGCTGGCCACCTCATCCAGTCTGTGGCCTGGGAGGCATG
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GTGCCAAGAACATCGCCTTCTACCCAGCAACCACGAGCGCTACCTGGAGGGCCACATA
GACGTGTGGTGGATCGTGACAGATGGTGGCATGCTCATGCTTCTGCCCTTCTGTGCGC
CAGCATAAGGTCTGGAGGAAGTGCCGGATGCGCATCTTCACAGTGGCCAGATGGATGAC
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GAGGTGGAGGTGGTGGAGATGCATAACAGTGACATCTCTGCATACACCTACGAGCGGACG
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GAGCGAGAAGCCAGCTGGTCAAGGATCGGCACCTCGGCCCTGCGGCTGGAGAGCCTGTAC
TCGGACGAGGAAGATGAGTCTGCAAGTGGGGCTGACAAGATCCAGATGACGTGGACCAGG
GACAAGTACATGACTGAGACCTGGGACCCAGCCATGCCCTGACAATTTCCGGGAGCTG
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GAAGTCATTGTACGCGCTCCCACGACGCCCGCTGGTTCTCCTAAACATGCCTGGCCCA
CCCAGGAACAGTGAAGGCGACGAGAACTACATGGAGTTCCTCGAGGTGCTGACCGAGGGC
CTTGAGCGGGTGTGTTGGTGC GCGGTGGTGGCCGTAAGTCATCACCATCTACTCC
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_001145963
- 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_001145963.1](#), [NP_001139435.1](#)

RefSeq Size: 4652 bp

RefSeq ORF: 3240 bp

Locus ID: 6560

UniProt ID: [Q9UP95](#)

Cytogenetics: 16q22.1

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the SLC12A transporter family. The encoded protein mediates the coupled movement of potassium and chloride ions across the plasma membrane. This gene is expressed ubiquitously. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jan 2013]

Transcript Variant: This variant (4) contains an alternate 5' exon which includes a translational start codon, compared to variant 1. The encoded isoform (d) has a distinct N-terminus and is shorter than isoform a.