

## Product datasheet for **SC327273**

### SLC12A4 (NM\_001145962) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC12A4 (NM_001145962) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC12A4
Synonyms:	CTC-479C5.17; hKCC1; KCC1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001145962, the custom clone sequence may differ by one or more nucleotides

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ATGCGAGCGGGCGGGCGTGTGCGCCCGGGCGGGGACAGCGCGGGGACAGCGGGC
GGCGGCTGGGACGGCGGGTGTGCGCGGGGCGAGCCCGACGATGCCTCACTTCACCGTGG
TGCCAGTGGACGGCCGAGGCGCGGCGACTATGACAACCTCGAGGGGCTCAGTTGGGTGG
ACTACGGGGAGCGCGCGAGCTGGATGACTCGGACGGAAGAGCTGGACATCCGCCAAAG
GTATCGTCTCTTCTGGGAAAGCTCGTCAGCTACACCAACCTCACCCAGGGCGCCAAAGAG
CATGAGGAGGCCGAGAGTGGGAGGGCACCCGCGGAGGGCAGCCGAGGCACCCAGCATG
GGCACCTCATGGGGGTGTACCTGCCCTGCCTGCAGAATATCTTTGGGGTATCCTCTTC
CTGCGGCTGACCTGGATGGTGGGCACAGCAGGTGTCTACAGGCCCTCCTCATCGTGCTT
ATCTGCTGCTGTGTACCCTGCTGACGGCCATCTCCATGAGTGCCATCGCCACCAACGGT
GTGTTCCAGCTGGGGGCTCCTATTTTCATGATCTCTCGTTCACTGGGGCCAGAATTTGGA
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GGTGTCTATGACACGTCGAATGCCACTTTGAACAATATGCGTGTGTATGGGACATTTTC
CTGACCTTCATGACCCTGGTGGTGTGTTGTGGGGTCAAGTATGTGAACAAATTTGCCTCG
CTCTTCTGGCCTGTGTGATCATCTCCATCCTCTCCATCTATGCTGGGGGCATAAAGTCT
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CAGTTTGACATCTGTGCCAAGACAGCTGTAGTGGACAATGAGACAGTGGCCACCCAGCTA
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CTCAACAATGTGACCGAGATCCCTGGCATCCCCGGGGCAGCTGCTGGTGTGCTCCAGGAA
AACCTGTGGAGCGCTACCTGGAGAAGGGTGCATCGTGGAGAAGCATGGGCTGCCCTCC
GCAGATGCCCGAGCCTGAAGGAGAGCCTGCCTCTGTACGTGGTGCCTGACATCGCCACA
TCCTTCACCGTGTGGTGGCATCTTCTCCCTTCTGTAACAGGCATCATGGCTGGCTCA
AACCGCTCTGGGGACCTTCGTGACGCCAGAAGTCTATCCCTGTGGGGACCATTTGGCC
ATCATTACAACCTCCCTCGTGTACTTCAGCAGTGTGGTCTCTTTGGTGCCTGCATTGAG
GGTGTGGTCTCCGGGACAAGTATGGCGATGGTGTGAGCAGGAACCTGGTGGTGGGCACA

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CTGGCCTGGCCTTCACCCTGGGTCATCGTCATCGGCTCCTTCTTTTCAACGTGTGGCGCT
GGCCTCCAGAGCCTCACAGGGGACCACGCCTATTGCAGGCCATTGCCAAGGACAACATC
ATCCCCCTCCTCCGGGTGTTTGGCCACGGGAAGGTGAATGGTGAACCCACATGGGCACTC
CTCCTGACGGCACTCATCGCCGAGCTGGGCATCCTCATCGCCTCCCTCGACATGGTGGCC
CCCATTATCCATGTTCTTTCTGATGTGCTACCTGTTTCGTGAACCTCGCCTGTGCGGTG
CAGACACTCCTGAGGACCCCAACTGGCGGCCCGTTCAAGTACTATCACTGGGCGTG
TCCTTCCTGGGCATGAGTCTCTGCCTGGCCCTTATGTTTGTCTCCTCCTGGTACTATGCC
CTGGTGGCCATGCTCATCGCCGGCATGATCTACAAATACATCGAGTACCAAGGGGCTGAG
AAGGAGTGGGGTGACGGGATCCGAGGCCTGTCCCTGAGCGCTGCCCGCTACGCGCTGTTG
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CAGTCCTGTGGCCTGGGAGGCATGCGGCATAACTCCGTGGTGTGGGCTGGCCCTACGGC
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TCTGCATACACCTACGAGCGGACGCTGATGATGGAGCAGCGGTGCGAGATGCTGCGGCAG
ATGAGACTGACCAAGACTGAGCGGGAGCGAGAAGCCAGCTGGTCAAGGATCGGCATCG
GCCCTGCGGCTGGAGAGCCTGTACTCGGACGAGGAAGATGAGTCTGCAGTGGGGGCTGAC
AAGATCCAGATGACGTGGACCAGGACAAGTACATGACTGAGACCTGGGACCCAGCCAT
GCCCTGACAATTTCCGGGAGCTGGTGCACATTAAGCCGGACCAATCCAATGTGCGGCGC
ATGCACACTGCTGTGAAGCTCAATGAAGTCATTGTACGCGCTCCACGACGCCCGCCTG
GTTCTCTAAACATGCCTGGCCACCCAGGAACAGTGAGGGCGACGAGAACTACATGGAG
TTCCTCGAGGTGCTGACCAGGGCCTTGAGCGGGTGTGTTGGTGGCGGGTGGTGGCCGT
GAAGTCATCACCATCTACTCC
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_001145962
- 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\\_001145962.1](#), [NP\\_001139434.1](#)

**RefSeq Size:** 4678 bp

**RefSeq ORF:** 3264 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 (3) lacks an alternate exon in the 5' coding region, and initiates translation at an alternate upstream start codon, compared to variant 1. The encoded isoform (c) has a distinct N-terminus and is longer than isoform a.