

## Product datasheet for RC228634

### SLC12A4 (NM\_001145964) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC12A4 (NM_001145964) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC12A4
Synonyms:	CTC-479C5.17; hKCC1; KCC1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC228634 representing NM_001145964 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGGACACCCTGAGCCCCGGACATGGCAACCACAGAGAGAGCAGCCCTTTCTTTCCCCCTTGAGG  
CTTCCAGAGGAATTGACTACTATGACAGGAACCTGGCACTGTTTGAGGAAGAGCTGGACATCCGCCCAA  
GGTATCGTCTCTTCTGGAAAGCTCGTCAGCTACACCAACCTCACCCAGGGCGCCAAAGAGCATGAGGAG  
GCCGAGAGTGGGAGGGCACCCGCGGAGGGCAGCCGAGGCACCCAGCATGGGCACCCTCATGGGGTGT  
ACCTGCCCTGCCTGCAGAATATCTTTGGGGTTATCCTCTTCTGCGGCTGACCTGGATGGTGGGCACAGC  
AGGTGTGTACAGGCCCTCCTCATCGTGCTTATCTGCTGCTGTTGTACCCTGCTGACGGCCATCTCCATG  
AGTGCCATCGCCACCAACGGTGTGGTCCAGCTGGGGCTCCTATTTTCATGATCTCTCGTTCAGTGGGGC  
CAGAATTTGGAGGTGCTGTGGCCTGTGCTTCTACCTGGGAACAACATTCGCAGCAGCCATGTACATCCT  
GGGGGCCATCGAGATCTTGTGACCTACATTGCCCCACAGCTGCCATTTTTTACCCATCGGGTGTCTCAT  
GACACGTGAATGCCACTTTGAACAATATGCGTGTGTATGGGACCATTTTCTGACCTTCATGACCCTGG  
TGGTGTTTGTGGGGTCAAGTATGTGAACAAATTTGCCTCGCTTCTGCGCTGTGTGATCATCTCCAT  
CCTCTCCATCTATGCTGGGGCATAAAGTCTATATTTGACCCTCCCGTGTTCGGTATGCATGCTGGGC  
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CCACCCAGCTATGGAGTTTCTTCTGCCACAGCCCCAACCTTACGACCGACTCCTGTGACCCCTACTTCAT  
GCTCAACAATGTGACCGAGATCCCTGGCATCCCCGGGGCAGCTGCTGGTGTGCTCCAGGAAAACCTGTGG  
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AGGAGAGCCTGCCTCTGTACGTGGTCTGACATCGCCACATCCTTACCCTGCTGGTGGCATCTTCTT  
CCCTTCTGTAACAGGCATCATGGCTGGCTCAAACCGCTCTGGGACCTTCGTGACGCCCAGAAGTCTATC  
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CCTGCATTGAGGGTGTGGTCTCCGGGACAAGTATGGCGATGGTGTGAGCAGGAACCTGGTGGTGGGCAC  
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AGCCTCACAGGGGACCACGCCTATTGCAGGCCATTGCCAAGGACAACATCATCCCTTCTCCGGGTGT



TTGGCCACGGGAAGGTGAATGGTGAACCCACATGGGCACTCCTCCTGACGGCACTCATCGCCGAGCTGGG  
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 GTGAACCTCGCCTGTGCGGTGCAGACACTCCTGAGGACCCCAACTGGCGGCCCGGTTCAAGTACTATC  
 ACTGGGCGCTGTCTTCTGGGCATGAGTCTCTGCCTGGCCCTTATGTTTGTCTCCTCCTGGTACTATGC  
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 CTCACACCAAGAAGTGGCGCCGACGCTGGTGGTCTGCTGAAGCTGGACGAGGACCTCCACGTGAAGTA  
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 GACCAATCCAATGTGCGGCGCATGCACACTGCTGTGAAGCTCAATGAAGTATTGTCACGCGCTCCCACG  
 ACGCCCGCTGGTTCCTAAACATGCCTGGCCACCCAGAACAGTGAAGGCGACGAGAAGTACATGGA  
 GTTCTCGAGGTGCTGACCGAGGCGCTTGAGCGGGTGTGTTGGTGGCGGGTGGTGGCCGTGAAGTCATC  
 ACCATCTACTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228634 representing NM\_001145964  
 Red=Cloning site Green=Tags(s)

MGDTLSPGHGNHRESSPFLSPLEASRGIDYDRNLALFEEELDIRPKVSSLLGKLVSYTNLTQGAKEHEE  
 AESGEGTRRRAAEAPSMGTLMGVYLPCLQNI FGVILFLRLTWMVGTAGVLQALLIVLICCCCTLLTAISM  
 SA IATNGVVPAGGSYFMISRLGPEFGGAVGLCFYLGTTFAAAMYILGAIEILLTYIAPPAIFYPGSAH  
 DTSNATLNNMRVYGTIFLTFMFLVVFVGVKYNKFA SLFLACV IISILSIYAGGIKSI FDPVPVPCMLG  
 NRTL SRDQFDICAKTAVVDNETVATQLWSFFCHSPNLTTDSCDPYFMLNNVTEIPGIPGAAAGVLQENLW  
 SAYLEKGDIVEKHGLPSADAPSLKESLPLYVADIATSFTVLVGIFFPSVTGIMAGSNRSGDLRDAQKSI  
 PVGTILAIITTSLVYFSSVVLFGACIEGVVLRDKYGDGVSRLVVGTLAWPSPWVIVIGSFFSTCGAGLQ  
 SLTGAPRLLQAI AKDNIIPFLRVFGHGKVNGETWALLLTALIAELGILIASLDMVAPILSMFFLMCYLF  
 VNLACAVQTLLRTPNWRPRFKYHWALSFLGMSLCLALMFVSSWYVALVAMLIAGMIYKYIEYQGAKEW  
 GDGIRGLSL SAARYALLRLEEGPPHTKNWRPQLLVLLKLEDLHVYPRLLTFASQLKAGKGLTIVGSVI  
 QGSFLESYGEAAEQTIKNMMEIEKVKGFQVAVASKVREGLAHLIQSCGLGMRHNSVVLGWPYGWRQ  
 SEDPRAWKTFIDTVRCTTAAHLALLVPKNIAFYPSNHERYLEGHIDVWVIVHDGGMLMLLPFLLRQHVKV  
 RKCRMRIFTVAQMDDNSIQMKDLAVFLYHLRLEAEVEVEMHNSDISAYTYERTLMMEQRSQMLRQML  
 TKTEREREALVKDRHSALRLESLSYDEEDESAVGADKIQMTWTRDKYMETWDP SHAPDNFREL VHIKP  
 DQSNVRRMHTAVKLENIIVTRSHDARLVLLNMPGPPRNSEGDENYMEFLEVLTEGLERVLLVRGGGREVI  
 TIYS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

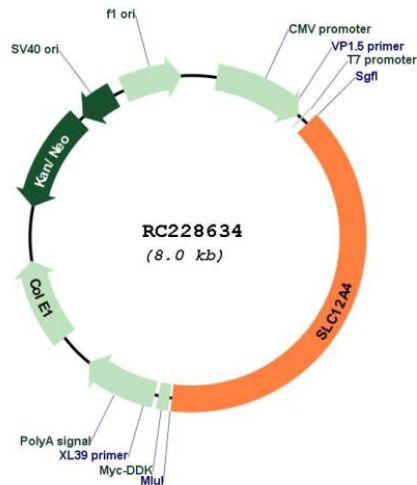
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001145964

ORF Size: 3162 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001145964.2</a></u>
<b>RefSeq ORF:</b>	3165 bp
<b>Locus ID:</b>	6560
<b>UniProt ID:</b>	<u><a href="#">Q9UP95</a></u>
<b>Cytogenetics:</b>	16q22.1
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	116.9 kDa
<b>Gene Summary:</b>	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]