

Product datasheet for **RC222743**

Sodium bicarbonate transporter like protein 11 (SLC4A11) (NM_032034) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sodium bicarbonate transporter like protein 11 (SLC4A11) (NM_032034) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC4A11
Synonyms:	BTR1; CDPD1; CHED; CHED2; dj794I6.2; NABC1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC222743 representing NM_032034
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCAGGTCGGGGGCGGGGAGACAGGTGCACACAGGAGTCCAGGGCTTGGTCCATGGGGCTGGTG
 ACCTTTCTGCTTCCCTTGAGAAAACCTCTCCACCATGTCGCAGAATGGATACTTCGAGGATTCAAGCTA
 CTAACAAGTGTGACACAGATGACACCTTCGAAGCCCGAGAGGAGATCCTGGGGGATGAGGCCTTCGACACT
 GCCAACTCCTCCATCGTGTCTGGCGAGAGTATCCGTTTTTTTTGTCAATGTCAACCTTGAGATGCAGGCCA
 CCAACTGAGAATGAAGCGACTCCGGTGGTGTGTGCTCCTGCACACCTCCCGAAAAGTACCTGAAGTT
 AAAGAACTTCAAGGAAGAGATCCGTGCGCACCGCGACCTAGATGGCTTCTGGCGCAGGCCAGCATCGTC
 CTGAACGAGACGGCCACCTCCCTGGATAACGTGCTGCGGACCATGCTTCGCCGCTTCGCCAGGGACCCTG
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 GCGGGGTAAAGTCCACCTGCTGTGAGATACCATCAAGGGGTACCGCCACAGTGACAGGGGTGCGGTAC
 CAGCAGTCGTGGCTCTGCATCATCTGTACCATGAAGGCCCTACAGAAGCGGCACGTGTGCATCAGCCGCC
 TGGTTCGCCCACAGAACTGGGGGGAGAATTCTGTGAGGTTTCGGTTCGTATCCTGGTGTGGCCCCACC
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 GTCAGGCCTCGGCCAGCCTCAACGCCAGCCTCCACTGCCCCTCAACGCCAGCTTCTCGCCAGCCCC
 ACGGAGCTGCCCTCGGCCACACTCAGGCCAGGCGACCCTGCTCAGCCTCCTCATCATGCTGGGCA
 CGCTCTGGCTGGGCTACACCCTCTACCAATTCAAGAAGAGCCCTACCTGCACCCCTGCGTGCGAGAGAT
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ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222743 representing NM_032034
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MSQVGGGRDRCCTQEVQGLVHGAGDLSASLAENSPTMSQNGYFEDSSYYKCDTDDTFEAREEILGDEAFDT
 ANSSIVSGESIRFFVNVNLEMQATNTENEATSGGCVLLHTSRKYLKLNFKKEIRAHRLDGLAQASIV
 LNETATSLDNVLRMTLRRFARDPDNNEPNCNLDLLMAMLF TDAGAPMRGKVHLLSDTIQGVATVTGVRY
 QQSWLCCIICMKALQKRHVCI SRLVRPQNWGENSCEVRFVILVLAPPKMKSTKTAMEVARTFATMFSDIA
 FRQKLLERTRTEEEFKREALVHQRLLLTMVSHGPVAPRTKERSTVSLPAHRHPEPPKCKDFVPFGKGIREDI
 ARRFPLYPLDFTDGIIGKNKAVGKYITTTLLFLYFACLLPTIAFGSLNDENTDGAIDVQKTIAGQSIGLL
 YALFSGQPLVILLTTAPLALYIQVIRVICDDYDLDFNSFYAWTGLWNSFFLALYAFFNLSLVMSLFKRST
 EEIIALFISITFVLDAVKGTVKIFWKYYGHYLDYHTKRTSSLVSLGASLNASLHTALNASFLASP
 TELPSATHSGQATAVLSLLIMLGLWLGTYLYQFKKSPYLHPCVREILSDCALPIAVLAFSLISSHGFRE
 IEMSKFRYNPSESPFAMAQIQSLSLRAVSGAMGLGFLLSMLFFIEQNLVAALVNAPENRLVKGTAYHWDL
 LLLAIINTGLSLFGLPWIHAAYPHSPLHVRALALVEERVENGHIYDTIVNVKETRLTSLGASVLVGLSLL
 LLPVPLQWIPKPVLYGLFLYIALTSLDGNQLVQRVALLLKEQTAYPPPTHYIRRVQPKIHYFTGLQVLQL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

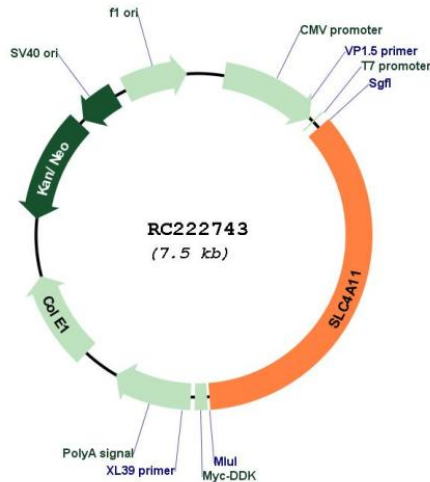
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_032034

ORF Size: 2673 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.

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_032034.4](#)

RefSeq Size: 3110 bp

RefSeq ORF: 2676 bp

Locus ID: 83959

UniProt ID: [Q8NBS3](#)

Cytogenetics: 20p13

Protein Families: Transmembrane

MW: 99.6 kDa

Gene Summary: This gene encodes a voltage-regulated, electrogenic sodium-coupled borate cotransporter that is essential for borate homeostasis, cell growth and cell proliferation. Mutations in this gene have been associated with a number of endothelial corneal dystrophies including recessive corneal endothelial dystrophy 2, corneal dystrophy and perceptive deafness, and Fuchs endothelial corneal dystrophy. Multiple transcript variants encoding different isoforms have been described. [provided by RefSeq, Mar 2010]