OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC329221

Sodium bicarbonate transporter like protein 11 (SLC4A11) (NM_001174090) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sodium bicarbonate transporter like protein 11 (SLC4A11) (NM_001174090) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC4A11
Synonyms:	BTR1; CDPD1; CHED; CHED2; dJ794I6.2; NABC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>SC329221 representing NM_001174090.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCGTTTATGGCCCCCAGGACCGGTCTGAGAGTGAGAAGAGGGATGTGCAGAGAGATCCCCCGCCT
TGGCATCCGAGGAGAGAGGGGGAGAGGCCCGCTCGGGCCCGGTCCCTTCCTCTCGCTGCAGCGGGGCAG
GGTTTTCTCAGGAAAACCTGGATTAGCGAACATGAAAACTCTCCCACCATGTCGCAGAATGGATACTTC
GAGGATTCAAGCTACTACAAGTGTGACACAGATGACACCTTCGAAGCCCGAGAGGAGATCCTGGGGGAT
GAGGCCTTCGACACTGCCAACTCCTCCATCGTGTCTGGCGAGAGTATCCGTTTTTTTGTCAATGTCAAC
CTTGAGATGCAGGCCACCAACACTGAGAATGAAGCGACTTCCGGTGGCTGTGTGCTCCTGCACACCTCC
CGAAAGTACCTGAAGTTAAAGAACTTCAAGGAAGAGATCCGTGCGCACCGCGACCTAGATGGCTTCCTG
GCGCAGGCCAGCATCGTCCTGAACGAGACGGCCACCTCCCTGGATAACGTGCTGCGGACCATGCTTCGC
CGCTTCGCCAGGGACCCTGACAACAATGAGCCCAACTGCAACCTGGACCTGCTCATGGCCATGCTCTTC
ACCGATGCCGGGGCACCCATGCGGGGTAAAGTCCACCTGCTGTCAGATACCATCCAAGGGGTCACCGCC
ACAGTGACAGGGGTGCGGTACCAGCAGTCGTGGCTCTGCATCATCTGTACCATGAAGGCCCTACAGAAG
CGGCACGTGTGCATCAGCCGCCTGGTTCGCCCACAGAACTGGGGGGAGAATTCCTGTGAGGTTCGGTTC
GTCATCCTGGTGCTGGCCCCACCCAAGATGAAAAGCACTAAGACTGCGATGGAGGTGGCGCGCACGTTT
GCCACCATGTTCTCGGATATCGCCTTCCGCCAGAAGCTCCTGGAGACCCGCACAGAGGAGGAATTCAAG
GAGGCCTTGGTGCATCAGAGACAGCTGCTCACCATGGTGAGCCACGGTCCAGTGGCGCCGAGAACGAAG
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AGCCTGGTCATGAGTCTCTTCAAGAGGTCGACGGAGGAGATCATCGCCCTCTTCATTTCCATCACGTTT
GTGCTGGATGCCGTCAAGGGCACGGTTAAAATCTTCTGGAAGTACTACTATGGGCATTACTTGGACGAC
TATCACACAAAAAGGACTTCATCCCTTGTCAGCCTGTCAGGCCTCGGCGCCAGCCTCAACGCCAGCCTC
CACACTGCCCTCAACGCCAGCTTCCTCGCCAGCCCCACGGAGCTGCCCTCGGCCACACACTCAGGCCAG
GCGACCGCCGTGCTCAGCCTCCTCATCATGCTGGGCACGCTCTGGCTGGGCTACACCCTCTACCAATTC
AAGAAGAGCCCCTACCTGCACCCCTGCGTGCGAGAGATCCTGTCCGACTGCGCCCTGCCCATCGCGGTG
CTCGCCTTCTCCCTCATCAGCTCCCATGGCTTCCGGGAAATCGAGATGAGCAAGTTCCGCTACAACCCC
AGCGAGAGCCCCTTTGCGATGGCGCAGATCCAGTCGCTGTCCCTGAGGGCCGTCAGCGGTGCCATGGGC
CTCGGCTTCCTGCTGTCCATGCTCTTCTTCATCGAGCAGAACTTGGTGGCCGCCTTGGTGAATGCACCG
GAGAACAGGCTGGTGAAGGGCACTGCCTACCACTGGGACCTCCTGCTCCTCGCCATCATCAACACAGGG
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GCCTTAGTGGAGGAGCGTGTGGAGAACGGACACATCTATGACACGATTGTGAACGTGAAGGAGACGCGG
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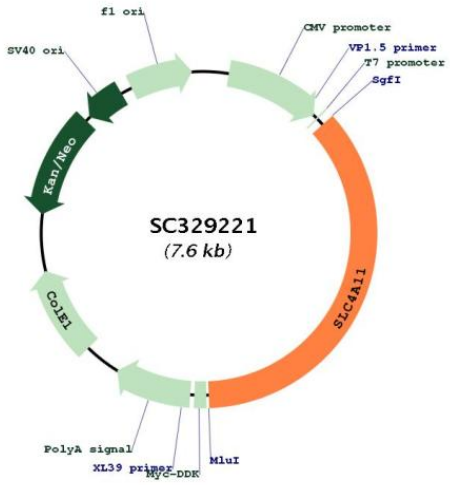
ATCCCCAAGCCCGTGCTCTATGGCCTCTTCCTCTACATCGCGCTCACCTCCCTCGATGGCAACCAGCTC
GTCCAGCGCGTGGCCCTGCTGCTCAAGGAGCAGACTGCGTACCCCCCGACACACTACATCCGGAGGGTG
CCCCAGAGGAAGATCCACTACTTCACGGGCCTGCAGGTGCTTCAGCTGCTGCTGCTGTGTGCCTTCGGC
ATGAGCTCCCTGCCCTACATGAAGATGATCTTTCCCCTCATCATGATCGCCATGATCCCCATCCGCTAT
ATCCTGCTGCCCCGAATCATTGAAGCCAAGTACTTGGATGTCATGGACGCTGAGCACAGGCCTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001174090

Insert Size: 2757 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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_001174090.1
RefSeq Size:	3268 bp
RefSeq ORF:	2757 bp
Locus ID:	83959
UniProt ID:	Q8NBS3
Cytogenetics:	20p13
Protein Families:	Transmembrane
MW:	103.1 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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).