

Product datasheet for **RG230583**

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

Product data:

Product Type:	Expression Plasmids
Product Name:	Sodium bicarbonate transporter like protein 11 (SLC4A11) (NM_001174090) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sodium bicarbonate transporter like protein 11
Synonyms:	BTR1; CDPD1; CHED; CHED2; dj794I6.2; NABC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230583 representing NM_001174090
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCGTTTATGGCCCCAGGACCGGTCTGAGAGTGAGAAGAGGGATGTGCAGAGAGATCCCCCGCTT
 GGCATCCGAGGAGAGAGGGGAGAGGCCCGCTCGGGCCCGTCCCTTCTCTCGCTGCAGCGGGCAGGG
 TTTTCTCAGGAAAACCTGGATTAGCGAACATGAAAACCTCCACCATGTGCGAGAATGGATACTTCGAG
 GATTCAAGCTACTACAAGTGTGACACAGATGACACCTTGAAGCCCGAGAGGAGATCCTGGGGGATGAGG
 CCTTCGACACTGCCAACTCCTCCATCGTGTCTGGCGAGAGTATCCGTTTTTTGTCAATGTCAACCTTGA
 GATGCAGGCCACCAACTGAGAATGAAGCGACTTCCGGTGGCTGTGTGCTCCTGCACACCTCCCGAAAAG
 TACCTGAAGTTAAAGAACTTCAAGGAAGAGATCCGTGCGCACCCGACCTAGATGGCTTCTGGCGCAGG
 CCAGCATCGTCTGAACGAGACGGCCACCTCCCTGGATAACGTGTGCGGACCATGCTTCGCGCTTCGC
 CAGGGACCTGACAACAATGAGCCCAACTGCAACCTGGACCTGCTCATGGCCATGCTTTCACCGATGCC
 GGGGCACCCATGCGGGGTAAAGTCCACCTGCTGTGAGATACCATCAAGGGGTACCGCCACAGTGACAG
 GGGTGGGTACCAGCAGTCTGGCTCTGCATCATCTGTACCATGAAGGCCCTACAGAAGCGGCACGTGTG
 CATCAGCCGCTGGTTCGCCACAGAAGTGGGGGAGAATTCCTGTGAGGTTTCGTTTCGTCATCCTGGTG
 CTGGCCCCACCAAGATGAAAAGCACTAAGACTGCGATGGAGGTGGCGCGCACGTTTCCACCATGTTCT
 CGGATATCGCCTTCCGCCAGAAGCTCCTGGAGACCCGCACAGAGGAGGAATCAAGGAGGCCCTGGTGCA
 TCAGAGACAGTGTCTACCATGGTGAGCCACGGTCCAGTGGCGCCGAGAACAAGGAACGCAGCACAGTC
 TCCCTCCCTGCCACAGACACCCAGAGCCCCAAAGTGAAGGACTTTGTCCCTTTGGGAAGGGCATCC
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 GGCTGTGGGCAAATACATCACACCACCCCTGTTCTCTACTTCGCTGCCTCCTGCCACCATCGCTTTC
 GGGTCTCTCAATGACGAGAACACAGACGGGCCATCGACGTGCAGAAGCCATAGCCGGGACAGATCG
 GGGCCTGCTCTACGCGCTTCTCTGGGCAGCCATTGGTGATTCTGCTGACCACCGCGCCCTGGCGCT
 CTACATCCAGGTGATTCTGTGTCATCTGTGATGACTATGACCTGGACTTCAACTCCTTCTACGATGGACG
 GGCCTGTGGAATAGTTTCTTCTTGCCTTTATGCCTTTTTCAACCTCAGCCTGGTCATGAGTCTTTCA
 AGAGGTCGACGGAGGAGATCATCGCCCTCTTCATTTCCATCACGTTTGTGCTGGATGCCGTAAGGGCAC
 GGTAAAAATCTTCTGGAAGTACTACTATGGGCATTACTTGGACGACTATCACAAAAAGGACTTCAATCC
 CTTGTGACGCTGTGAGGCTCGGCGCCAGCCTCAACGCCAGCCTCCACACTGCCCTCAACGCCAGCTTCC
 TCGCCAGCCCCACGGAGCTGCCCTCGGCCACACACTCAGGCCAGGCGACCGCCGTGCTCAGCCTCCCTCAT
 CATGCTGGGCACGCTCTGGCTGGGTACACCCTTACCAATTCAAGAAGAGCCCCCTACCTGCACCCCTGC
 GTGCGAGAGATCCTGTCCGACTGCGCCCTGCCATCGCGGTGCTCGCCTTCTCCCTCATCAGTCCCATG
 GCTTCCGGGAAATCGAGATGAGCAAGTTCGGTACAACCCAGCGAGAGCCCCCTTTCGATGGCGCAGAT
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 TGTCCCTGTTGCTGCTGCCGCTCCGCTTCAAGTGGATCCCCAAGCCCGTCTCTATGGCCTCTTCTCTA
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 GCGTACCCCCGACACACTACATCCGGAGGGTGGCCAGAGGAAGATCCACTACTTACGGGCTGCAGG
 TGCTTACGCTGCTGCTGTGTGCTTCCGATGAGCTCCCTGCCCTACATGAAGATGATCTTCCCT
 CATCATGATCGCCATGATCCCCATCCGCTATATCTGCTGCCCGAATCATTGAAGCCAAGTACTGGAT
 GTCATGGACGCTGAGCACAGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG230583 representing NM_001174090
 Red=Cloning site Green=Tags(s)

MGVYGPQDRSESEKRDVQRDPPPHPRREGERPARARSLPLAAAGQGFLRKTWISEHENSPTMSQNGYFE
 DSSYYKCDTDDTFEAREEILGDEAFDTANSSIVSGESIRFFVNVNLEMQATNTENEATSGGCVLLHTSRK
 YLKLKNFKEEIRAHRLDLGFLAQASIVLNETATSLDNVLRMTLRRFARDPDNNEPNCNLDLLMAMLFDA
 GAPMRGKVHLLSDTIQGVATVTVGVRYQQSWLCIICMTKALQKRHVCSIRLVRPQNWGENSCVRFVILV
 LAPPKMKSTKTAMEVARTFATFSDIAFRQKLETRTEEEFKALVHQRQLLTMVSHGVPVAPRTKERSTV
 SLPAHRHPEPPKCKDFVPFGKGIREDIARRFPLYPLDFTDGIIGKNKAVGKYITTTFLFYFACLLPTIAF
 GSLNDENTDGAIDVQKTIAGQSIGLLYALFSGQPLVILLTTAPLALYIQVIRVICDDYDLDFNSFYAWT
 GLWNSFFLALYAFFNLSLVMFLKIRSTEEIIALFISITFVLDAVKGTVKIFWKYYYGHYLDHYTKRTSS
 LVSLSGLGASLNASLHTALNASFLASPTELPSATHSGQATAVLSLLIMLGLWLGTYLYQFKKSPYLHPC
 VREILSDCALPIAVLAFSLISSHGFRIEMSKFRYNPSESPFAMAQIQSLSLRAVSGAMGLFLLSMLFF
 IEQNLVAALVNAPENRLVKGTAHWDLALLAIINTGLSLFGLPWIIHAAYPHSPLHVRALALVEERVENGH
 IYDTIVNVKETRLTSLGASVLVGLSLLLPVPLQWIPKPVLYGLFLYIALTSLDGNQLVQRVALLKEQT
 AYPPTHYIRRVQPKIHYFTGLQVLQLLLLCAFGMSSLPYMKMIFPLIMIAMIPIRYILLPRIIEAKYLD
 VMDAEHRP

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

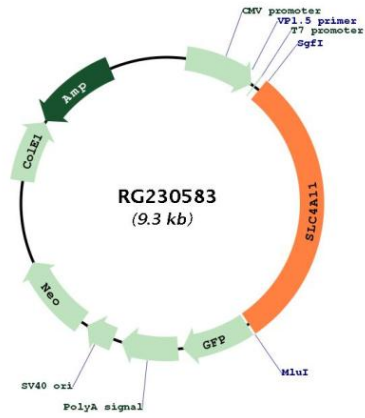


ACCN: NM_001174090

ORF Size: 2754 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_001174090.2
RefSeq Size:	3268 bp
RefSeq ORF:	2757 bp
Locus ID:	83959
UniProt ID:	Q8NBS3
Cytogenetics:	20p13
Protein Families:	Transmembrane
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG230583