

Product datasheet for **SC309999**

SLC4A4 (NM_003759) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC4A4 (NM_003759) Human Untagged Clone
Tag: Tag Free
Symbol: SLC4A4
Synonyms: hhNMC; HNBC1; KNBC; kNBC1; NBC1; NBC2; NBCe1-A; pNBC; SLC4A5
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_003759, the custom clone sequence may differ by one or more nucleotides

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ATGTCCACTGAAAATGTGGAAGGGAAGCCAGTAACCTTGGGGAGAGAGGAAAGAGCCCGG
AGCTCCACTTTCCTCAGGGTTGTCCAGCCAATGTTTAACACAGTATTTCACTTCTGCA
GTCTCTCTGCTGCAGAACGCATCCGATTCATCTTGGGAGAGGAGGATGACAGCCAGCT
CCCCCTCAGCTCTTCACGGAAGTGGATGAGCTGCTGGCCGTGGATGGGCAGGAGATGGAG
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ATGGAGAAAGGATCCATCATGCTTGATCGGGAGGCTTCTTCTCTCCACAGTTGGTGGAG
ATGATTGTTGACCATCAGATTGAGACAGGCCTATTGAAACCTGAACTTAAGGATAAGGTG
ACCTATACTTTGCTCCGGAAGCACCGGCATCAAACCAAGAAATCCAACCTTCGGTCCCTG
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AGCCCAGCCATGACCCATAGGAATCTGACTTCCCTCCAGTCTGAATGACATTTCTGATAAA
CCGGAGAAGGACCAGCTGAAGAATAAGTTCATGAAAAAATGGCCAGTGATGCAGAAGCT
TCCAACGTGCTTGTGGGGAGGTTGACTTTTTGGATACTCCTTTCATTGCCTTTGTTAGG
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TTCATTTCTTAGGTCTAAGGGGAAAGCCAAGTCTACCACAGATTGGCAGAGCCATT
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GGACTAATTAAGACATAAAGAGGAAAGCGCCATTTTTGCCAGTGATTTTTATGATGCT
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GAGGAGGGCTTTTCTCTCTGATTAGCTTCATCTTTATCTATGATGCTTTCAAGAAGATG
ATCAAGCTTGAGATTACTACCCATCAACTCAAACCTTCAAAGTGGGCTACAACACTCTC

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TTTTCTGTACCTGTGTGCCACCTGACCCAGCTAATATCTCAATATCTAATGACACCACA
CTGGCCCCAGAGTATTTGCCAACTATGTCTTCTACTGACATGTACCATAATACTACCTTT
GACTGGGCATTTTTGTGCGAAGAAGGAGTGTCAAATACGGAGGAAACCTCGTCGGGAAC
AACTGTAATTTTGTCTCTGATATCACACTCATGTCTTTTATCCTCTTCTTGGGAACCTAC
ACCTCTTCCATGGCTCTGAAAAAATTCAAAAGTCTTATTTTCCAACCACAGCAAGA
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CTCTATGGTGTGTTCTGTATATGGGAGTAGCATCCCTAATGGTGTGCAGTTCATGGAT
CGTCTGAAGCTGCTTCTGATGCCTCTGAAGCATCAGCCTGACTTCATCTACCTGCCTCAT
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GTCATTCCAGAAAAGGACAAGAAAAAGAGGAGGATGAGAAGAAAAAGAAAAAGAAAG
GGAAGTCTGGACAGTGACAATGATGATTCTGACTGCCATACTCAGAAAAAGTTCCAAGT
ATTAATAATCCAATGGACATCATGGAACAGCAACCTTTCCTAAGCGATAGCAAACCTTCT
GACAGAGAAAGATCACCAACATTCCTTGAACGCCACACATCATGCTGA

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Restriction Sites:

Please inquire

ACCN:

NM_003759

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_003759.1](#), [NP_003750.1](#)

RefSeq Size:

7586 bp

RefSeq ORF:

3108 bp

Locus ID:	8671
UniProt ID:	Q9Y6R1
Cytogenetics:	4q13.3
Domains:	HCO3_cotransp
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	<p>This gene encodes a sodium bicarbonate cotransporter (NBC) involved in the regulation of bicarbonate secretion and absorption and intracellular pH. Mutations in this gene are associated with proximal renal tubular acidosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding region, compared to variant 1. These differences cause translation initiation at a downstream AUG and an isoform (2) with a shorter and distinct N-terminus compared to isoform 1.</p>