

Product datasheet for **SC315166**

SLC4A10 (NM_022058) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC4A10 (NM_022058) Human Untagged Clone
Tag: Tag Free
Symbol: SLC4A10
Synonyms: NBCn2; NCBE
Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM_022058, the custom clone sequence may differ by one or more nucleotides

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ATGGAGATTAAGACCAGGGAGCCCAAATGGAGCCGCTGCTGCCACGAGAAATGATGAA
GAAGCAGTTGTGGATAGAGGTGGAACCTGTTCTATTCTCAAACACACTTTGAGAAAGAA
GATTTAGAAGGTCATCGAACACTATTTATTGGAGTACATGTGCCCTTGGGAGGAAGAAAA
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TTTATTCTTGAACCGAGGATGATGACGAGGAACACATTCCTCATGACCTTTTCACAGAA
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TTGAAGTTTGAAGAAGATGTGGAAGATGGAGGAGAAAGGTGGAGCAAGCCTTATGTGGCT
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CTGGACATGCATGCCAACACTTTAGAAGAAATTGCAGATATGGTCTTGACCAACAAGTG
AGCTCAGGTCAGCTGAATGAAGATGTACGCCATAGGGTCCATGAGGCATTGATGAAACAG
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TCTCCTCAGTCTGCTCCAGCCTGTGTTGAAAATAAAAAATGATGTTAGCAGAGAAAAACAGC
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CCAGTTTTGGTGTGTTGAAAAGATTTTGTAAATTTTGCAAGAATATGGGCTGTCATAC
CTATCTTAAGAGCTAGCATTGGACTTTGGACTGCAACTCTATGTATCATACTTGTGGCC

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ACAGATGCTAGTTCCTTGTCTGCTACATCACTCGGTTTACTGAAGAAGCTTTTGTCTCC
 CTGATTTGCATCATTTTCATTTATGAGGCCCTGGAGAAGTTGTTTGAAGTCAAGTGAAGCA
 TATCCAATCAACATGCATAATGATCTGGAAGTCTGACACAATACTCGTGTAACTGTGTG
 GAACCGCATAATCCCAGCAATGGCACATTGAAGGAATGGAGGGAATCCAATTTTCTGCC
 TCTGACATAATTTGGGAGAACCTAACTGTGCAGAATGCAAAATCATTGCATGGAGAGTAT
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 GAACTCTGCTGGTTGGATGATTTGATGCCTGAGAGTAAGAAAAAGAACTGGAATATGT
 GAAAAAGAAGAACAATGTGTGCTACCTATGGAAGATGAGGGCACAGTACAACCTCCA
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 ACTGCCTTGTGGAGAACCTTCTGATTACTGCCGATAACTCAAAAAGATAAGGAGTCAAGC
 TTTCTTCCAAAAGCTCCCTTCC

Restriction Sites:

Please inquire

ACCN:

NM_022058

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_022058.2](#), [NP_071341.1](#)

RefSeq Size: 3929 bp

RefSeq ORF: 3267 bp

Locus ID: 57282

UniProt ID: [Q6U841](#)

Cytogenetics: 2q24.2

Domains: HCO3_cotransp

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene belongs to a small family of sodium-coupled bicarbonate transporters (NCBTs) that regulate the intracellular pH of neurons, the secretion of bicarbonate ions across the choroid plexus, and the pH of the brain extracellular fluid. The protein encoded by this gene was initially identified as a sodium-driven chloride bicarbonate exchanger (NCBE) though there is now evidence that its sodium/bicarbonate cotransport activity is independent of any chloride ion countertransport under physiological conditions. This gene is now classified as a member A10 of the SLC4 family of transmembrane solute carriers. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, May 2010]
Transcript Variant: This variant (2) lacks an in-frame exon in the 5' coding region, compared to variant 1, and encodes a shorter protein (2), compared to isoform 1.