

Product datasheet for **SC309947**

SLC4A7 (NM_003615) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC4A7 (NM_003615) Human Untagged Clone
Tag: Tag Free
Symbol: SLC4A7
Synonyms: NBC2; NBC3; NBCN1; SBC2; SLC4A6
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_003615, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGATTTCTGCTGGAGAAGAAGTTACCTGGTCCTGATGAAGAAGCTGTTGTGGAT
CTTGGCAAAGTACTGCTCAACTGTGAACACCAAGTTTAAAAAGAAGAAGTAAAGTGCAT
AGAGCTGTATATATTGGTGTTCACGTCCTCGTTTAGTAAAGAGAGTCGTCGGCGTCATAGG
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GATGTTGAAGATGGCGGTGACCGATGGAGTAAACCTTATGTGGCAACTCTCTTTGCAC
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CTTTTTGGTGGTTTGATACTTGACATCAAAAGGAAAGCACCTTTTTCTTGAGTGACTTC
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CCAGTCAAGGCCCTAAAATATAGTCTGATAAACCTGTGAGTGTGAAAATAAGTTTTGAA
GATGAACCAAGAAAGAAATACGTGGATGCTGAACTTCATTATAG

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- Restriction Sites:** Please inquire
- ACCN:** NM_003615
- 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_003615.2](#), [NP_003606.2](#)

RefSeq Size: 7785 bp

RefSeq ORF: 7767 bp

Locus ID: 9497

UniProt ID: [Q9Y6M7](#)

Cytogenetics: 3p24.1

Domains: HCO3_cotransp

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This locus encodes a sodium bicarbonate cotransporter. The encoded transmembrane protein appears to transport sodium and bicarbonate ions in a 1:1 ratio, and is thus considered an electroneutral cotransporter. The encoded protein likely plays a critical role in regulation of intracellular pH involved in visual and auditory sensory transmission. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Apr 2012]
Transcript Variant: This variant encodes isoform a.