

Product datasheet for **SC305966**

SLC4A5 (NM_133478) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC4A5 (NM_133478) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC4A5
Synonyms:	NBC4; NBCe2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_133478, the custom clone sequence may differ by one or more nucleotides

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ATGAAGGTGAAGGAGGAGAAGGCTGGGGTAGGAAAGCTGGACCACACTAACCACAGGAGG
AGATTTCCGGATCAGAAAGAATGCCCTCCTATCCACATTGGGCTTCCAGTACCCACTTAC
CCTCAAAGAAAACTGACCAGAAGGGACATCTTTCAGGCCTGCAAAAAGTCCACTGGGGC
CTGCGGCCAGACCAGCCACAGCAGGAAGTACTGGCCAGGGAGTGGGGCAAGCAGCCAG
GACAGCAGCATGGATCTTATCAGCAGGACTCGGTCCCCAGCTGCTGAGCAGCTCCAGGAC
ATCCTGGGGGAGGAAGATGAGGCTCCCAACCCACCTCTTTACAGAGATGGATACTCTG
CAGCATGACGGAGACCAGATGGAGTGGAAAGGAGTCAGCCAGGTGGATAAAGTTTGAAGAA
AAGGTAGAGGAAGCGGGCAACGCTGGAGCAAGCCCCACGTGTCCACACTATCCCTGCAC
AGCCTCTTCGAGCTCCGTACCTGCCTGCAGACGGGGACGGTGTCTGGATTTGGACAGT
GGCTCCTTACCACAGATCATAGATGATGTCATTGAGAAGCAGATTGAGGATGGTCTCCTG
CGGCCAGAGCTCCGGGAGAGGGTCAGTTACGTCCTCCTGAGGAGGCCACGCCACCAAACC
AAGAAGCCCATCCACCGCTCCTTAGCTGACATTGGGAAGTCAGTCTCCACCACAAATCGC
AGTCTGCCCGGAGCCCTGGTGTGGCCGAGTCTACACCACTCCACGGAAGACCTGCGG
ATGCGGCAGAGTGCAAATTACGGACGCTGTGTTCATGCCAGAGCAGAAGCATGAATGAC
ATTTCTCTACCCCAAACACAGACCAGCGGAAAAACAAATTCATGAAGAAGATCCCCAAG
GACTCAGAAGCGTCCAACGTGCTCGTGGGCGAGGTGGACTTCTAGACCAGCCATTCATC
GCGTTCGTGCGCCTCATCCAGTCGCGCATGCTGGGAGGAGTGACCGAGGTGCCTGTCCCC
ACCAGATTTCTGTTTATACTACTGGGACCTTCTGGGAGAGCAAAATCCTACAATGAAATT
GGCCGTGCCATTGCAACCCTCATGGTAGATGATCTCTTCAAGTACGCTGGCCTACAAAGCC
CGCAATCGGGAAGATCTGATCGCAGGAATTGATGAATTTCTGGATGAGGTCATCGTCCTT
CCTCCTGGAGAATGGGACCCAAATATCCGGATTGAGCCCCCAAGAAGGTGCCCTCTGCT
GACAAGAGGAAAATCTGTGTTCTCCCTAGCAGAGCTGGGCCAGATGAATGGCTCTGTGGGA
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GGGGCTGCGAGTGGCGGGGCCGGCGGAACAAGCAGCGGGATGATGGAGAGATGCCAGCC
ATGCATGAAATCGGGGAGGAACCTTATCTGGACAGGAAGTTCTTCGTTGGCTGTGTCTG
GATATCAAGAGGAAGTTGCCCTGGTTCCCAAGTGACTTCTATGATGGCTTCCACATTCAG
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GGGCTTCTGGGGGATGCCACCGACAATTATCAGGGAGTGATGGAGAGCTTCTGGGCACT
GCCATGGCTGGCTCCTTGTCTGCTCTTCTCGGGACAGCCTCTCATCATTCTCAGCAGC

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ACGGGGCCCATCCTCATCTTTGAGAAGCTCCTCTTCGACTTCAGCAAAGGCAATGGCCTG
GACTACATGGAGTTCCGCTCTGGATTGGCCTACACTCAGCTGTCCAGTGCCTTATCCTA
GTGGCCACAGATGCCAGCTTTATCATCAAATATACACCCGCTTCACCGAGGAGGCTTC
TCCACCCTTATCAGCTTCATCTTCATCTACGATGCCATCAAGAAGATGATCGGTGCCTC
AAGTACTACCCTATCAATATGGACTTCAAGCCAAACTTCATCACTACCTACAAGTGCAG
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GACACCAACGCTTCTCTGTACAACCTCCTTAACCTCACAGCGTTGACTGGTCCCTGCTG
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GAGAACAACCTGAAGAAGGCTGCCGGCTACCATCTGGACCTGTTCTGGGTGGGCATCCTC
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GCCACATCGACAGCCTCAAGATGGAGACAGAGACCAGTGCCCTGGGGAGCAGCCCCAG
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CTCTACATGGGCGTGGCCTCCCTGAATGGCATCCAGTTCTGGGAACGCTGCAAGCTCTTC
CTGATGCCAGCCAAGCACCAGCCGACCATGCCTTCTGCGGCACGTGCCGCTGCCCGG
ATCCACCTTTCCACCCTGGTGCAGATCCTCTGCCTGGCGGTGCTCTGGATCCTCAAATCC
ACGGTGGCTGCCATCATCTTCCCCTCATGATCCTGGGCTCATCATCGTTCGAAGGCTG
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GAAAAAAGGAGACAGACAAGAAGAGGAAGAGAAAAAAGGGGCCACAGGACTGTGAT
GAGGAGCCCCAGTTCCTCCTCCCTCGGTTATAAAGATCCCATGGAAAGTGTCCAATCA
GATCCCCAAAACGGTATCCACTGCATTGCCAGAAAAAGATCTTCCAGTTGGAGTTACTCA
CTCTGA

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- Restriction Sites:** Please inquire
- ACCN:** NM_133478
- 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_133478.1](#), [NP_597812.1](#)

RefSeq Size: 3746 bp

RefSeq ORF: 3366 bp

Locus ID: 57835

UniProt ID: [Q9BY07](#)

Cytogenetics: 2p13.1

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the sodium bicarbonate cotransporter (NBC) family, part of the bicarbonate transporter superfamily. Sodium bicarbonate cotransporters are involved in intracellular pH regulation and electroneutral or electrogenic sodium bicarbonate transport. This protein is thought to be an integral membrane protein. Multiple transcript variants encoding different isoforms have been found for this gene, but the biological validity of some variants has not been determined. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (c) lacks an internal exon in the coding region as compared to variant a. Variant c encodes a protein that lacks a 16 aa internal segment.