

Product datasheet for **SC323250**

SLC12A3 (NM_001126107) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC12A3 (NM_001126107) Human Untagged Clone
Tag: Tag Free
Symbol: SLC12A3
Synonyms: NCC; NCCT; TSC
Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM_001126107, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGAACTGCCACAAACAGAGACGCCTGGGGACGCCACTTTGTGCAGCGGGCGCTTC
ACCATCAGCACACTGCTGAGCAGTGATGAGCCCTCTCCACCAGCTGCCTATGACAGCAGC
CACCCAGCCACCTGACCACAGCAGCACCTTCTGCATGCGCACCTTTGGCTACAACACG
ATCGATGTGGTGCCACATATGAGCACTATGCCAACAGCACCCAGCCTGGTGAGCCCGG
AAGGTCGGGCCACACTGGCTGACCTGCACTCCTTCTCAAGGAAGGCAGACACCTGCAT
GCCCTGGCCTTTGACAGCCGGCCAGCCACGAGATGACTGATGGGCTGGTGGAGGGCGAG
GCAGGCACCAGCAGCGAGAAGAACCCCGAGGAGCCAGTGCCTTCGGCTGGGTCAAGGGG
GTGATGATTCTGTCATGCTCAACATTTGGGGCGTGATCTCTACCTGCGGCTGCCCTGG
ATTACGGCCCAGGCAGGCATCGTCTGACCTGGATCATCATCCTGCTGTGGTACCGGTG
ACCTCCATCACAGGCCTCTCCATCTCAGCCATCTCCACCAATGGCAAGGTCAAGTCAGGT
GGCACCTACTTCTCATCTCCCGGAGTCTGGGCCAGAGCTTGGGGGCTCCATCGGCCTC
ATTTTCGCTTTCCGCAATGCCGTGGGTGTGGCCATGCACACGGTGGGCTTTGCAGAGACC
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GGTGACCTCAAGGACCTGCTATAGCCATCCCCAAGGGGACCCTCATGGCCATTTTCTGG
ACGACATTTCTACCTGGCCATCTCAGCCACATTGGCTCCTGCGTGGTGCATGATGCC
TCTGGGGTCTGAATGACACAGTGACCCCTGGCTGGGGTGCCTGCGAGGGGCTGGCCTGC
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AACTATTACCAGACCATGAGCATGGTGTGAGGCTTCGCGCCCCTGATCACGGCTGGCATC
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TGCCCTTTCGAGGACCAGCTGTACCCACTGATCGGCTTCTTCGGCAAAGGCTATGGCAAG
AACAAAGGAGCCCGTGGCTGCTACCTGCTGGCCTACGCCATCGCTGTGGCCTTCATCATC
ATCGCTGAGCTCAACACCATAGCCCCATCATTCCAACCTTCTTCTCTGCTCCTATGCC
CTCATCAACTTACAGTGTCTCCACGCCTCCATCACCAACTCGCCTGGGTGGAGACCTTCA
TTCCAATACTACAACAAGTGGCGGGCGCTGTTGGGGCTATCATCTCCGTGGTATCATG

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TTCTCTCACCTGGTGGGCGGCCCTCATCGCCATTGGCGTGGTCTCTTCTCTCTGCTC
TATGTCATCTACAAGAAGCCAGAGGTAATTTGGGGCTCCTCGGTACAGGCTGGCTCTAC
AACCTGGCCCTCAGTACTCGGTGGGCCTCAATGAGGTGGAAGACCACATCAAGAACTAC
CGCCCCCAGTGCCTGGTCTCACGGGGCCCCCAACTCCGCCCGGCCCTGGTGGACTTT
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CACAAGCAGAGGATGCCTGAGCTCCAGCTCATCGCCAACGGGCACACCAAGTGGCTGAAC
AAGAGGAAGATCAAGGCCTTCTACTCGGATGTCATTGCCGAGGACCTCCGCAGAGGCGTC
CAGATCCTCATGCAAGCCGAGGTCTCGGGAGAATGAAGCCCAACATTCTGGTGGTTGGG
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CATGATGCCTTTGATTTCAACTATGGCGTGTGTGTGATGAGGATGCGGGAGGGACTCAAC
GTGTCCAAGATGATGCAGGCGCACATTAACCCCGTGTGTTGACCCAGCGGAGGACGGGAAG
GAAGCCAGCGCCAGAGGTGCCAGGCCATCAGTCTCTGGCGCTTTGGACCCCAAGGCCCTG
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GACCAGGAGAGAAAGCCGATCATTTCTCTGCTGAGCAAGTTCCGACTGGGATTCCATGAA
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GACATGATTGCACCCCTTCGTGATGATGGCTTCAAGGATGAGGCCACTGTCAACGAG
ATGCGGCGGGACTGCCCTGGAAGATCTCAGATGAGGAGATTACGAAGAACAGAGTCAAG
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ATCGTCATCACTTTGCCATAGGGAGGAAGGGGAAGTCCCCAGCTCGCTGTACATGGCC
TGGCTGGAGACCCTGTCCAGGACCTCAGACCTCCAGTCATCCTGATCCGAGGAAACCAG
GAAAACGTGCTCACCTTTTACTGCCAG
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_001126107
- 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_001126107.1](#), [NP_001119579.1](#)
- RefSeq Size:** 5579 bp
- RefSeq ORF:** 3090 bp

Locus ID: 6559

UniProt ID: [P55017](#)

Cytogenetics: 16q13

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a renal thiazide-sensitive sodium-chloride cotransporter that is important for electrolyte homeostasis. This cotransporter mediates sodium and chloride reabsorption in the distal convoluted tubule. Mutations in this gene cause Gitelman syndrome, a disease similar to Bartter's syndrome, that is characterized by hypokalemic alkalosis combined with hypomagnesemia, low urinary calcium, and increased renin activity associated with normal blood pressure. This cotransporter is the target for thiazide diuretics that are used for treating high blood pressure. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1, resulting in a protein (isoform 2) that is 1 aa shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.