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Product datasheet for SC300568

SLC6A19 (NM_001003841) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A19 (NM_001003841) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC6A19
Synonyms:	B0AT1; HND
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

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>OriGene sequence for NM_001003841 edited
ATGGTGAGGCTCGTGCTGCCCAACCCCGGCCTAGACGCCCGGATCCCGTCCCTGGCTGAG
CTGGAGACCATCGAGCAGGAGGAGGCCAGCTCCCGGCCGAAGTGGGACAACAAGGCGCAG
TACATGCTCACCTGCCTGGGCTTCTGCGTGGGCCTCGGCAACGTGTGGCGCTTCCCCTAC
CTGTGTCAGAGCCACGGAGGAGGAGCCTTCATGATCCCGTTCCTCATCCTGCTGGTCCTG
GAGGGCATCCCCCTGCTGTACCTGGAGTTCGCCATCGGGCAGCGGCTGCGGCGGGGCAGC
CTGGGTGTGTGGAGCTCCATCCACCCGGCCCTGAAGGGCCTAGGCCTGGCCTCCATGCTC
ACGTCCTTCATGGTGGGACTGTATTACAACACCATCATCTCCTGGATCATGTGGTACTTA
TTCAACTCCTTCCAGGAGCCTCTGCCCTGGAGCGACTGCCCGCTCAACGAGAACCAGACA
GGGTATGTGGACGAGTGCGCCAGGAGCTCCCCTGTGGACTACTTCTGGTACCGAGAGACG
CTCAACATCTCCACGTCCATCAGCGACTCGGGCTCCATCCAGTGGTGGATGCTGCTGTGC
CTGGCCTGCGCATGGAGCGTCCTGTACATGTGCACCATCCGCGGCATCGAGACCACCGGG
AAGGCCGTGTACATCACCTCCACGCTGCCCTATGTCGTCCTGACCATCTTCCTCATCCGA
GGCCTGACGCTGAAGGGCGCCACCAATGGCATCGTCTTCCTCTTCACGCCCAACGTCACG
GAGCTGGCCCAGCCGGACACCTGGCTGGACGCGGGCGCACAGGTCTTCTTCTCCTTCTCC
CTGGCCTTCGGGGGCCTCATCTCCTTCTCCAGCTACAACTCTGTGCACAACAACTGCGAG
AAGGACTCGGTGATTGTGTCCATCATCAACGGCTTCACATCGGTGTATGTGGCCATCGTG
GTCTACTCCGTCATTGGGTTCCGCGCCACACAGCGCTACGACGACTGCTTCAGCACGAAC
ATCCTGACCCTCATCAACGGGTTCGACCTGCCTGAAGGCAACGTGACCCAGGAGAACTTT
GTGGACATGCAGCAGCGGTGCAACGCCTCCGACCCCGCGGCCTACGCGCAGCTGGTGTTC
CAGACCTGCGACATCAACGCCTTCCTCTCAGAGGCCGTGGAGGGCACAGGCCTGGCCTTC
ATCGTCTTCACCGAGGCCATCACCAAGATGCCGTTGTCCCCACTGTGGTCTGTGCTCTTC
TTCATTATGCTCTTCTGCCTGGGGCTGTCATCTATGTTTGGGAACATGGAGGGCGTCGTT
GTGCCCCTGCAGGACCTCAGAGTCATCCCCCCGAAGTGGCCCAAGGAGGTGCTCACAGGC
CTCATCTGCCTGGGGACATTCCTCATTGGCTTCATCTTCACGCTGAACTCCGGCCAGTAC
TGGCTCTCCCTGCTGGACAGCTATGCCGGCTCCATTCCCCTGCTCATCATCGCCTTCTGC
GAGATGTTCTCTGTGGTCTACGTGTACGGTGTGGACAGGTTCAATAAGGACATCGAGTTC
ATGATCGGCCACAAGCCCAACATCTTCTGGCAAGTCACGTGGCGCGTGGTCAGCCCCCTG
CTCATGCTGATCATCTTCCTCTTCTTCTTCGTGGTAGAGGTCAGTCAGGAGCTGACCTAC
AGCATCTGGGACCCTGGCTACGAGGAATTTCCCAAATCCCAGAAGATCTCCTACCCGAAC
TGGGTGTATGTGGTGGTGGTGATTGTGGCTGGAGTGCCCTCCCTCACCATCCCTGGCTAT
GCCATCTACAAGCTCATCAGGAACCACTGCCAGAAGCCAGGGGACCATCAGGGGCTGGTG
AGCACACTGTCCACAGCCTCCATGAACGGGGACCTGAAGTACTGA
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Restriction Sites: Please inquire

ACCN: NM_001003841

Insert Size: 1900 bp

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_001003841.1, NP_001003841.1
RefSeq Size:	1905 bp
RefSeq ORF:	1905 bp
Locus ID:	340024
UniProt ID:	Q695T7
Cytogenetics:	5p15.33
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a system B(0) transmembrane protein that actively transports most neutral amino acids across the apical membrane of epithelial cells. Mutations in this gene may result in Hartnup disorder, an inherited disease with symptoms such as pellagra, cerebellar ataxia, and psychosis. The expression and function of B0AT1 (SLC6A19) in intestinal cells depends on the presence of the accessory protein angiotensin-converting enzyme 2 (ACE2) which, among other functions, acts as a chaperone for membrane trafficking of B0AT1. The ACE2 is also the cellular receptor for severe acute respiratory syndrome-coronavirus (SARS-CoV) and for SARS-CoV-2 that is causing the coronavirus 2019 (COVID-19) pandemic [provided by RefSeq, Jul 2020]