

Product datasheet for **SC305021**

SLC6A20 (NM_022405) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A20 (NM_022405) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC6A20
Synonyms:	IMINO; SIT1; XT3; Xtrp3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC305021 representing NM_022405.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGAGAAAGCGCGCCCGCTGTGGGCAACTCGCTACAGTTCGTGTTTCGCTGCATCTCGTACGCCGTG
GGCCTGGGCAACGTGTGGCGATTCCCGTACCTGTGCCAGATGTACGGCGAGGTAGTTTCTGGTCCCC
TACATCATCATGCTTATCGTGGAGGGAATGCCGCTCTTGTACCTGGAACGGCTGTGGGGCAGCGCATG
CGGCAGGGCAGCATCGGGCCTGGAGGACCATCAGCCCGTACCTCAGTGGTGTGGGGTCCGCCAGCGTG
GTGGTCTCTTTCTCCTCTCCATGTACTACAACGTCAACGCCTGGGCCTTCTGGTACCTCTTCCAC
TCCTTCCAGGATCCCCTGCCGTGGTCTGTCTGCCACTGAATGGTAACCACAGGGCTACGATGAGGAG
TGTGAGAAGGCGTCTCCACACAGTACTTCTGGTACAGGAAAACCCTCAATATCTCGCCGTCCTCCAG
GAGAACGGGGTGTGCAGTGGGAGCCGGCCTGTGCCTCCTGGCCTGGCTGGTGGTGTACCTGTGC
ATCCTGCGTGGCACCAGTCCACTGGCAAGATAGAGCAGCTGGCCAACCCCAAGGCCTGGATCAATGCA
GCCACCCAGATCTTCTTCTCACTTGGCCTGGGCTTCGGCAGCCTGATCGCCTTCGCCAGTACAATGAG
CCATCCAACAACCTGCCAGAAGCAGCCATCATCGTGTCCCTCATCAACAGCTTCACTCCATATTTGCC
AGCATTGTCACCTTCTCCATCTATGGCTTCAAGGCCACCTTCAATTATGAAAACCTGCTTGAAGAAGTG
AGTCTGCTGCTGACCAACACTTTTGACCTTGAAGATGGCTTTTGGACAGCCAGCAACCTGGAGCAGGTG
AAGGGCTACCTCGCATCTGCCTACCCAAGCAAATACAGCGAGATGTTCCCGCAAATCAAAAACCTGCAGC
TTGGAATCGGAGCTAGACACGGCCGTCCAGGGCACTGGCTGGCATTATCGTCTACACAGAGGCCATT
AAAAACATGGAGGTGCCAGCTGTGGTGGTGTCTACTTCTCATGCTGCTGATGTGGGCATTGGG
AGCATGCTGGGGAACACAGCGCCATCCTCACCCCTCTGACAGACAGCAAGATCATCTCCAGCCACTG
CCCAAGGAGCCATCTCAGGTCTGGTGTGCCTTGTCAACTGTGCCATTGGCATGGTGTCCAGTGGAG
GCTGGGAACACTGTTGACATATTCAACGACTACGCGGCCACACTGTCCCTGCTGCTCATCGTGTGCTG
GTGGAGACGATTGCCGTGTGCTACGTGTACGGGCTGAGGAGATTTGAAAGTGACCTTAAGGCCATGACC
GGCCGAGCTGTGAGCTGGTACTGGAAGGTGATGTGGGCTGGCGTAAGCCCACTGCTGATTGTCAGCCTC
TTTGTCTTCTACCTGAGCGACTACATCCTCACGGGACCCTGAAGTATCAAGCCTGGGACGCCTCCCAG
GGCCAGCTCGTGACCAAAGATTACCCGGCCTATGCACTGGCTGTCATCGGGCTGCTTGTGGCCTCCTCC
ACCATGTGCATCCCCTGGCGGCCCTGGGGACTTTTGTTCAGCGTGCCTCAAGAGGGGAGACGCAGAC
CCCGTGGCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
  
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_022405
- Insert Size:** 1668 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_022405.3](#)

RefSeq Size: 5344 bp

RefSeq ORF: 1668 bp

Locus ID: 54716

UniProt ID: [Q9NP91](#)

Cytogenetics: 3p21.31

Protein Families: Druggable Genome, Transmembrane

MW: 61.8 kDa

Gene Summary: Transport of small hydrophilic substances across cell membranes is mediated by substrate-specific transporter proteins which have been classified into several families of related genes. The protein encoded by this gene belongs to the sodium:neurotransmitter symporter (SNF) family and functions as a proline transporter expressed in kidney and small intestine. Mutations in this gene are associated with Hyperglycinuria and Iminoglycinuria. [provided by RefSeq, Jul 2020]
Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform 2) compared to isoform 1.