

Product datasheet for **RC215810**

SLC6A20 (NM_022405) Human Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RC215810 representing NM_022405
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAAAGCGCGCCGCTGTGGGCCAACTCGCTACAGTTCGTGTTGCGCTGCATCTCGTACGCCGTGG
 GCCTGGGCAACGTGTGGCGATTCCCGTACCTGTGCCAGATGTACGGCGGAGGTAGTTTCCTGGTCCCTA
 CATCATCATGCTTATCGTGGAGGAATGCCGCTTGTACCTGGAAGTGGCTGTGGGGCAGCGCATGCGG
 CAGGGCAGCATCGGCGCCTGGAGGACCATCAGCCCGTACCTCAGTGGTGTGCGGGTGCAGCGTGGTGG
 TCTCTTTCTTCTCTCCATGTAACAACGTATCAACGCCTGGGCTTCTGGTACCTCTTCCACTCCTT
 CCAGGATCCCCTGCCGTGGTCTGTCTGCCACTGAATGGTAACCACACGGGCTACGATGAGGAGTGTGAG
 AAGGCGTCTCCACACAGTACTTCTGGTACAGGAAAACCTCAATATCTCGCCGTCCTCCAGGAGAACG
 GGGGTGTGCAAGTGGGAGCCGGCGCTGTGCCTCCTCTGGCCTGGTGGTGTACTGTGCATCCTGCG
 TGGCACCGAGTCCACTGGCAAGATAGAGCAGCTGGCCAACCCCAAGGCCTGGATCAATGCAGCCACCCAG
 ATCTTCTTCTCACTTGGCCTGGGCTTCCGACGCTGATCGCCTTCCGACGCTACAATGAGCCATCCAACA
 ACTGCCAGAAGCAGCCATCATCGTGTCCCTCATCAACAGCTTCACTCCATATTTGCCAGCATTGTCCAC
 TTCTCCATCTATGGCTTCAAGGCCACCTTCAATTATGAAAAGTCTTGAAGAAGGTGAGTCTGCTGCTG
 ACCAACACTTTTGACCTTGAAGATGGCTTTTGGACAGCCAGCAACCTGGAGCAGGTGAAGGGCTACCTCG
 CATCTGCCTACCAAGCAAATACAGCGAGATGTTCCCGCAAATCAAAAAGTGCAGCTTGGAAATCGGAGCT
 AGACACGGCCGTCCAGGGCACTGGCCTGGCATTATCGTCTACACAGAGGCCATTAACAAATGGAGGTG
 TCCAGCTGTGGTGGTGTCTACTTCTCATGCTGCTGATGCTGGGCATTGGGAGCATGCTGGGAACA
 CAGCGGCCATCCTCACCCCTCTGACAGACAGCAAGATCATCTCCAGCCACCTGCCAAGGAGGCCATCTC
 AGGTCTGGTGTGCCTTGTCAACTGTGCCATTGGCATGGTGTTCACGATGGAGGCTGGGAACACTGGTTT
 GACATATTCAACGACTACGCGGCCACACTGTCCCTGCTGCTCATCGTGGTGGAGACGATTGCCGTGT
 GCTACGTGTACGGGCTGAGGAGATTTGAAAGTACCTTAAAGGCCATGACCGGCCGAGCTGTGAGCTGGTA
 CTGGAAGGTGATGTGGGCTGGCGTAAGCCCACTGCTGATTGTCAGCCTCTTTGTCTTCTACCTGAGCGAC
 TACATCTCACGGGGACCCTGAAGTATCAAGCCTGGGACGCTCCAGGGCCAGCTCGTGACCAAAGATT
 ACCCGGCCTATGCACTGGCTGTCATCGGGCTGCTTGTGGCCTCTCCACCATGTGCATCCCCTGGCGGC
 CCTGGGGACTTTTGTTCAGCGTCGCTCAAGAGGGGAGACGCAGACCCCGTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215810 representing NM_022405
 Red=Cloning site Green=Tags(s)

MEKARPLWANSLQFVFACISYAVGLGNVWRFPYLCQMYGGGSFLVPYIIMLIVEGMPLLYLELAVGQRM
 QGSIGAWRTISPYLSGVGVASVVVFFLSMYYNVINAWAFWYLFHSFQDPLPWSVCPLNGNHTGYDEECE
 KASSTQYFWYRKLNISSPSLQENGGVQWEPALCLLLAWLVVYLCILRGTESTGKIEQLANPKAWINAATQ
 IFFSLGLGFGSLIAFASYNEPSNQCQKHAIIIVSLINSFTSIFASIVTFSIYGFKATFNENCLKQVSLLL
 TNTFDLEDGFLTASNLEQVKGYLASAYPSKYSEMFPQIKNCSLESELDTAVQGTGLAFIVYTEAIKNMEV
 SQLWSVLVYFMLMLGIGSMLGNTAAILTPLTDSKIISSHLPKEAISGLVCLVNCAIGMVFMEAGNYWF
 DIFNDYAATLSLLLIVLVETIAVCYVYGLRRFESDLKAMTGRAVSWYKVMWAGVSPLLIVSLFVYFVLS
 YILTGTLKYQAWDASQQLVTKDYPAYALAVIGLLVASSTMCIPLAALGTFVQRRLKRGDADPVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8067_a08.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_022405

ORF Size: 1665 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_022405.4](#)

RefSeq Size: 5239 bp

RefSeq ORF: 1668 bp

Locus ID: 54716

UniProt ID: [Q9NP91](#)

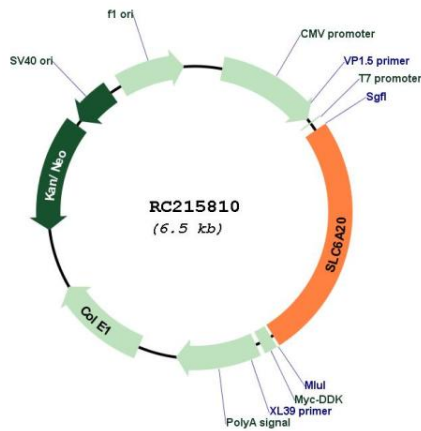
Cytogenetics: 3p21.31

Protein Families: Druggable Genome, Transmembrane

MW: 61.6 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]

Product images:



Circular map for RC215810