

Product datasheet for **RG215764**

SLC6A20 (NM_020208) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A20 (NM_020208) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC6A20
Synonyms:	IMINO; SIT1; XT3; Xtrp3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215764 representing NM_020208
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAAAGCGCGGCCGCTGTGGGCCAACTCGCTACAGTTCGTGTTGCGCTGCATCTCGTACGCCGTGG
 GCCTGGGCAACGTGTGGCGATTCCCGTACCTGTGCCAGATGTACGGCGGAGGTAGTTTCTGGTCCCTA
 CATCATCATGCTTATCGTGGAGGAATGCCGCTTGTACCTGGAAGTGGCTGTGGGGCAGCGCATGCGG
 CAGGGCAGCATCGGCGCCTGGAGGACCATCAGCCCGTACCTCAGTGGTGTGCGGGTGCAGCGTGGTGG
 TCTCTTTCTTCTCTCCATGTAACAACGTATCAACGCCTGGGCTTCTGGTACCTCTTCCACTCCTT
 CCAGGATCCCCTGCCGTGGTCTGTCTGCCACTGAATGGTAACCACACGGGCTACGATGAGGAGTGCAG
 AAGGCGTCTCCACACAGTACTTCTGGTACAGGAAAACCTCAATATCTCGCCGTCCTCCAGGAGAACG
 GGGGTGTGAGTGGGAGCCGGCGCTGTGCCTCCTCTGGCCTGGTGGTGTACTGTGCATCCTGCG
 TGGCACCAGTCCACTGGCAAGTGGTGTATTTACGGCGTCACTGCCCTATTGCGTGCTCATCATCTAC
 TCATCAGGGGCCCTCACGCTCCACGGAGCCACCAATGGCCTCATGTACATGTTCACTCCCAAGATAGAGC
 AGCTGGCCAACCCCAAGGCTGGATCAATGCAGCCACCCAGATCTTCTTCTCACTTGGCCTGGGCTTCGG
 CAGCCTGATCGCCTTCGCCAGCTACAATGAGCCATCCAACAACCTGCCAGAAGCACGCCATCATCGTGCC
 CTCATCAACAGCTTACCTCCATATTTGCCAGCATTGTACCTTCTCCATCTATGGCTTCAAGGCCACCT
 TCAATTATGAAAACCTGCTTGAAGAAGGTGAGTCTGCTGCTGACCAACACTTTTGACCTTGAAGATGGCTT
 TTTGACAGCCAGCAACCTGGAGCAGGTGAAGGGTACCTCGCATCTGCCTACCAAGCAAATACAGCGAG
 ATGTTCCCGCAAATCAAAAACCTGCAGCTTGAATCGGAGCTAGACACGGCCGTCAGGGCACTGGCTGG
 CATTCTCGTCTATACAGAGGCCATTA AAAACATGGAGGTGCCAGTGTGGTGGTGTGCTACTTCTT
 CATGCTGCTGATGCTGGGCATTGGGAGCATGCTGGGGAACACAGCGGCCATCCTCACCCCTCTGACAGAC
 AGCAAGATCATCTCCAGCCACCTGCCAAGGAGGCCATCTCAGGTCTGGTGTGCCTGTCAACTGTGCCA
 TTGGCATGGTGTTCACGATGGAGGCTGGAACTACTGGTTTGACATATTCAACGACTACGCGGCCACACT
 GTCCCTGCTGCTCATCGTGTGGTGGAGACGATTGCCGTGTGCTACGTGTACGGGCTGAGGAGATTTGAA
 AGTGACCTTAAGGCCATGACCGGCCGAGCTGTGAGCTGGTACTGGAAGGTGATGTGGGCTGGCGTAAGCC
 CACTGTGATTGTGAGCCTTTTGTCTTCTACCTGAGCGACTACATCCTCACGGGACCCGTAAGTATCA
 AGCCTGGGACGCCTCCAGGGCCAGCTCGTGACCAAAGATTACCCGGCCTATGCACTGGCTGTATCGGG
 CTGCTTGTGGCCTCCTCCACCATGTGCATCCCCCTGGCGGCCCTGGGGACTTTTGTTCAGCGTGCCTCA
 AGAGGGGAGACGCAGACCCCGTGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG215764 representing NM_020208
 Red=Cloning site Green=Tags(s)

MEKARPLWANSLQFVFACISYAVGLGNVWRFPYLCQMYGGGSFLVPYIIMLIVEGMPLLYLELAVGQRM
 QGSIGAWRTISPYLSGVGVASVVVFFLSMYNVINAWAFWYLFHSFQDPLPWSVCPLNGNHTGYDEECE
 KASSTQYFWYRKLNISSPLQENGGVQWEPALCLLLAWLVVYLCILRGTESTGKVVYFTASLPYCVLI
 LIRGLTLHGATNGLMYMFTPKEIQLANPKAWINAATQIFFSLGLGFGSLIAFASYNEPSNQCXKHA
 IIVSLINSFTSIFASIVTFSIYGFKATFNENCLKKVSLLLTNTFDLEDGFLTASNLEQVKGYLASAY
 PSKYSEMFPPQIKNCSLESELDTAVQGTGLAFIVYTEAIKNMEVSQLWSVLFFFMLMLGIGSMLGNT
 AAILTPLTDSKIISHLPKAISGLVCLVNCAIGMVFTMEAGNYWFDIFNDYAATL SLLLIVLVETI
 AVCYVYGLRRFESDLKAMTGRAVSWYWKVMWAGVSPLLIVSLFVYFLSDYILTGTLKYQAWDASQ
 GQLVTKDYPAYALAVIGLLVASSTMCIPLAALGTFVQRRLKRGDADPVA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_020208

ORF Size: 1776 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_020208.2](#), [NP_064593.1](#)

RefSeq Size: 5350 bp

RefSeq ORF: 1779 bp

Locus ID: 54716

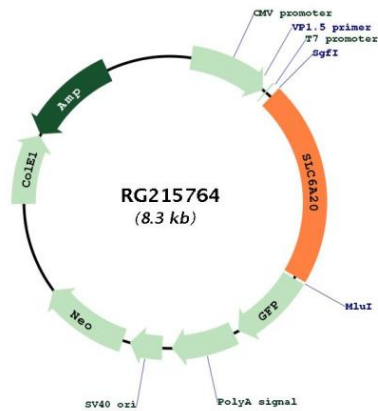
UniProt ID: [Q9NP91](#)

Cytogenetics: 3p21.31

Protein Families: Druggable Genome, Transmembrane

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 RG215764