

Product datasheet for **RG215810**

SLC6A20 (NM_022405) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC6A20 (NM_022405) 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:

>RG215810 representing NM_022405
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGAAAGCGCGGCCGCTGTGGGCCAACTCGCTACAGTTCGTGTTGCGCTGCATCTCGTACGCCGTGG
 GCCTGGGCAACGTGTGGCGATTCCCGTACCTGTGCCAGATGTACGGCGGAGGTAGTTTCCTGGTCCCTA
 CATCATCATGCTTATCGTGGAGGAATGCCGCTTGTACCTGGAAGTGGCTGTGGGGCAGCGCATGCGG
 CAGGGCAGCATCGGCGCCTGGAGGACCATCAGCCCGTACCTCAGTGGTGTGCGGGTCCGACGCGTGGTGG
 TCTCTTTCTTCTCTCCATGTAACAACGTATCAACGCCTGGGCTTCTGGTACCTCTTCCACTCCTT
 CCAGGATCCCCTGCCGTGGTCTGTCTGCCACTGAATGGTAACCACACGGGCTACGATGAGGAGTGTGAG
 AAGGCGTCTCCACACAGTACTTCTGGTACAGGAAAACCTCAATATCTCGCCGTCCTCCAGGAGAACG
 GGGGTGTGCAAGTGGGAGCCGGCGCTGTGCCTCCTCTGGCCTGGTGGTGTACCTGTGCATCCTGCG
 TGGCACCGAGTCCACTGGCAAGATAGAGCAGCTGGCCAACCCCAAGGCCTGGATCAATGCAGCCACCCAG
 ATCTTCTTCTCACTTGGCCTGGGCTTCCGACGCTGATCGCCTTCCGACGCTACAATGAGCCATCCAACA
 ACTGCCAGAAGCAGCCATCATCGTGTCCCTCATCAACAGCTTCACTCCATATTTGCCAGCATTGTAC
 CTTCTCCATCTATGGCTTCAAGGCCACCTTCAATTATGAAAAGTCTTGAAGAAGGTGAGTCTGCTGCTG
 ACCAACACTTTTGACCTTGAAGATGGCTTTTGGACAGCCAGCAACCTGGAGCAGGTGAAGGGCTACCTCG
 CATCTGCCTACCAAGCAAAACAGCGAGATGTTCCCGCAAAACAAAAGTGCAGCTTGGAAATCGGAGCT
 AGACACGGCCGTCCAGGGCACTGGCCTGGCATTTCATCGTCTACACAGAGGCCATTAACAAATGGAGGTG
 TCCAGCTGTGGTGGTGTCTACTTCTCATGCTGCTGATGCTGGGCATTGGGAGCATGCTGGGAACA
 CAGCGGCCATCCTCACCCCTCTGACAGACAGCAAGATCATCTCCAGCCACCTGCCAAGGAGGCCATCTC
 AGGTCTGGTGTGCCTTGTCAACTGTGCCATTGGCATGGTGTTCACGATGGAGGCTGGGAACACTGGTTT
 GACATATTCACGACTACGCGGCCACACTGTCCCTGCTGCTCATCGTGGTGGAGACGATTGCCGTGT
 GCTACGTGTACGGGCTGAGGAGATTTGAAAGTACCTTAAAGGCCATGACCGGCCGAGCTGTGAGCTGGTA
 CTGGAAGGTGATGTGGGCTGGCGTAAGCCCACTGCTGATTGTCAGCCTCTTTGTCTTCTACCTGAGCGAC
 TACATCTCACGGGGACCCTGAAGTATCAAGCCTGGGACGCTCCAGGGCCAGCTCGTGACCAAAGATT
 ACCCGGCCTATGCACTGGCTGTATCGGGCTGCTTGTGGCCTCTCCACCATGTGCATCCCCTGGCGGC
 CCTGGGACTTTTGTTCAGCGTCGCTCAAGAGGGGAGACGACACCCCGTGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG215810 representing NM_022405
 Red=Cloning site Green=Tags(s)

MEKARPLWANSIQVFACISYAVGLGNVWRFPYLCQMYGGGSFLVPYIIMLIVEGMPLLYLELAVGQRM
 QGSIGAWRTISPYLSGVGVASVVVSFFLSMYNVINAWAFWYLFHSFQDPLPWSVCLPNGNHTGYDEECE
 KASSTQYFWYRKTNLNISPQLQENGGVQWEPALCLLLAWLVVYLCILRGTESTGKIEQLANPKAWINAATQ
 IFFSLGLGFGSLIAFASYNPSNQCQKHAIIIVSLINSFTSIFASIVTFSIYGFKATFNENCLKKVSLLL
 TNTFDLEDGFLTASNLEQVKGYLASAYPSKYSEMFPQIKNCSLESELDTAVQGTGLAFIVYTEAIKNMEV
 SQLWSVLYFFMLMLGIGSMLGNTAAITPLTDSKIISSHLPEKAIISGLVCLVNCAIGMVFTMEAGNYWF
 DIFNDYAATLSLLLIIVL VETIAVCYVYGLRRFESDLKAMTGRAVSWYKVMWAGVSPLLIVSLFVYFVLS
 YILGTGLKYQAWDASQGLVTKDYPAYALAVIGLLVASSTMCIPLAALGTFVQRRLKRGDADPVA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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
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]