

Product datasheet for **RG214418**

SLC5A3 (NM_006933) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A3 (NM_006933) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC5A3
Synonyms:	BCW2; SMIT; SMIT1; SMIT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG214418 representing NM_006933
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGAGCTGTAAGTGGACACAGCAGACATTGCCATAGTGGCCCTGTATTTTATCCTGGTCATGTGCATTG
 GTTTTTTGGCCATGTGGAAATGTAATAGAACACCGTGAGTGGATACTTCTGGCGGGCGCTCTATGAC
 CTGGGTAGCAATTGGTGCCTCTCTGTTTGTGAGCAATATTGGGAGTGAGCACTTCATTGGGCTGGCAGGA
 TCTGGAGCTGCAAGTGGATTTGCAGTGGGCGCATGGGAATTCAATGCCTTACTGCTTTTACAACCTCTGG
 GATGGGTTTTATCCCAATTTACATCCGGTCAGGGGTATATACCATGCCTGAATACTTGTCCAAGCGATT
 TGGTGGCCATAGGATTCAGGTCTATTTTGCAGCCTTGTCTCTGATTCTCTATATTTTACCAAGCTCTCG
 GTGGATCTGTATTCGGTGGCCCTTTTTATCCAGGAGTCTTTGGGTGGAATCTTTATGTGTCTGTACCC
 TGCTCATTGGCATGACTGCTTTGCTGACTGTACCGGAGGCCCTGTTGCAGTGATCTACACAGACTCT
 GCAGGCTCTGCTCATGATCATTGGGCACTTACACTTATGATTATTAGCATAATGGAGATTGGCGGGTTT
 GAGGAAGTTAAGAGAAGGTACATGTTGGCTCACCCGATGTCACCTCCATCTATTGACATACAACCTTT
 CCAACACAAATCTTGTAAATGTCTCCCCTAAGAAAGAAGCCCTGAAAATGCTGCGGAATCCAACAGATGA
 AGATGTTCTTGGCTGGATTCACTTCTTGGGCAGACCCAGCTTCAGTATGGTACTGGTGTGCTGACCAA
 GTCATCGTGCAGAGGGTCTTGCAGCAAAAACATTGCTCATGCCAAAGGCTCTACTCTTATGGCTGGCT
 TCTTAAAGCTCTGCCAATGTTTATCATAGTTGTCCCAGGAATGATTTCCAGGATACTGTTTACTGATGA
 TATAGCTTGCATCAACCCAGAGCACTGCATGCTGGTGTGTGGAAGCAGAGCTGGTTGCTCCAATATTGCT
 TACCCACGCTGGTGTGAAGCTGGTTCCTGTGGCCCTTCGGGGTTTAAATGATGGCAGTGATGATTGCAG
 CTCTGATGAGTACTTACTCTATCTTTAACAGTGCAGTACCATATTCACCTCGATGTGTACAACCT
 TATCCGCAAGAGCGCAAGCTCCCGGAGTTAATGATTGTGGGGAGGATATTTGTGGCATTATGGTGGTG
 ATCAGCATAGCATGGGTGCCAATCATCGTGGAGATGCAAGGAGGCCAGATGTACCTTTACATTACAGGAGG
 TAGCAGATTACCTGACACCCCGAGTGGCAGCCTTGTCTCTGCTGGCAATTTTCTGGAAGCGCTGCAATGA
 ACAAGGGGCTTTCTATGGTGGAAATGGCTGGCTTTGTTCTTGGAGCAGTCCGTTTGATACTGGCCTTTGCC
 TACCGTGCCCGAATGTGACCAACCTGATAATAGGCCGGCTTCATCAAAGACATCCATTATATGTATG
 TGGCCACAGGATTGTTTTGGGTACGGGACTCATTACTGTAATTGTGAGCCTTCTCACACCCTCCAC
 AAAGGAACAGATTCGAACCACCCTTTTGGTCTAAGAAGAACCCTGGTGGTGAAGGAGAACTGCTCCCA
 AAAGAGGAACCATACAAAATGCAAGAAAAGAGCATTCTGAGATGCAGTGAGAATAATGAGACCATCAACC
 ACATCATTCCCAACGGGAAATCTGAAGACAGCATTAAAGGCCCTCAGCCTGAAGATGTTAATCTGTTGGT
 AACCTGCAGAGAGGAGGGCAACCCAGTGGCATCCTTAGGTCATTAGAGGCGAGAAACACCAGTTGACGCT
 TACTCCAATGGGCAAGCAGCTCTCATGGGTGAGAAAGAGAGAAAGAAAGAAACCGGATGATGGAGGTCCGT
 ACTGGAAGTTCATAGACTGGTTTTGTGGCTTTAAAAGTAAAGACCTCAGCAAGAGGAGTCTCAGAGACCT
 GATGGAAGAGGAGGCTGTTTTGTTACAGATGCTAGAAGAGACTCGGCAAGTTAAAGTAATACTAAATATT
 GGACTTTTTGCTGTGTGTTCACTTGAATTTTCATGTTTGTATTTCTCCTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214418 representing NM_006933
 Red=Cloning site Green=Tags(s)

MRAVLDTADIAIVALYFILVMCIGFFAMWKCNRSTVSGYFLAGRSMTWVAIGASLFVSNIGSEHFIGLAG
 SGAASGFVAVGAWEFNALLLQLLGWVFIPIYIRSGVYTMPEYLSKRFGGHRIQVYFAALSLILYIFTKLS
 VDLYSGALFIQESLGNLYVSVILLIGMTALLTVTGLVAVIYDTLQALLMIIGALTLMIISIMEIGGF
 EEVKRRYMLASPDVTSILLTYNLSNTNSCNVSPKKEALKMLRNPTDEDVPWPGFILGQTPASVWYWCADQ
 VIVQRVLAAKNIAHAKGSTLMAGFLKLLPMFIIIVPGMISRILFTDDIACINPEHCLVCGSRAGCSNIA
 YPRLVMKLVVGLRGLMMAVMIAALMSDLDSIFNSASTIFTLDVYKLRKSASSRELMIVGRIFVAFMVV
 ISIAWVPIIVEMQGGQMYLYIQEVADYLTPPVAALFLLAIFWKRCNEQGAFYGGMAGFVLGAVRLILAF
 YRAPECDQPDNRPGFIKDIHYMYVATGLFWVTGLITVIVSLLTPPPTKEQIRTTTFSKKNLVVKENCSP
 KEEPYKMQEKSILRCSENNETINHIIPNGKSEDSIKGLQPEDVNLVTCREEGNPVASLGHSEAEPTVDA
 YSNGQAALMGEKERKKTDDGGRYWKFIDWFCGFKSKLSKRSLRDLMEEEAVCLQMLEETROVKVILNI
 GLFAVCSLGIFMFVYFSL

TRTRPLE - GFP Tag - V

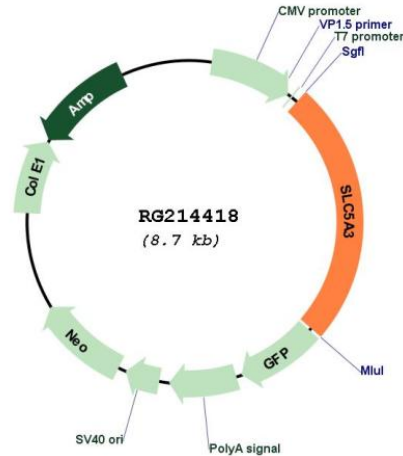
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_006933

ORF Size: 2154 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_006933.2](#), [NP_008864.2](#)

RefSeq Size: 2157 bp

RefSeq ORF: 2157 bp

Locus ID: 6526

Cytogenetics: 21q22.11

Protein Families: Transmembrane