

Product datasheet for **MG219414**

Slc5a3 (NM_017391) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc5a3 (NM_017391) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc5a3
Synonyms:	AA623876; BF642829; Smit1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG219414 representing NM_017391
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGGGCTGTAAGGAGCAGCAGACATTGCCGTAGTGGCCCTGTATTTTATCCTGGTCATGTGCATTG
 GCTTTTTTGCCATGTGGAAATCTAATAGAAGCACTGTGAGTGGATACTTCTGGCCGGGCGCTCTATGAC
 CTGGGTGGCGATTGGTGCCTCTCTGTTTGTGAGCAATATTGGGAGTGAACACTTCATTGGGCTGGCAGGA
 TCTGGAGCAGCAAGTGGATTTGCAGTGGGCGCATGGGAATTCAATGCCTTACTGCTCTTGAACCTCTGG
 GATGGGTTTTATCCCCATTTACATCCGGTCAGGGGTATATACCATGCCTGAATACTTGTCCAAGAGGTT
 CGGTGGCCATAGGATTCAAGTCTATTTTGCAGCCTTGTCTCTGCTTCTATATCTTACCAAGCTCTCA
 GTGGATCTGTATTCAGGGGCCCTTTTATCCAGGAGTCCCTGGGTGGAACCTTTATGTGTCTGTACATCC
 TGCTCATTGGCATGACTGCTCTGCTGACTGTACCGGAGGCCCTGTTGCAGTGATCTACACAGACTCT
 GCAGGCCCTGCTCATGATCATTGGGGCGCTCACACTTATGGTTATTAGCATGGTGAAGATTGGAGGGTTT
 GAGGAAGTTAAGAGAAGGTACATGTTGGCTCACCTGATGTTGCTTCCATTTTGTGAAGTACAACCTTT
 CCAACACAAATGCTTGTATGGTCCATCCTAAGGCGAATGCCCTAAAAATGTTGAGAGACCAACAGATGA
 AGATGTTCCATGGCCTGGATTCACTTCTGGGCAAAACCCAGCCTCGGTATGGTACTGGTGTGCTGACCAA
 GTCATCGTACAGAGGGTCTAGCAGCAAAAACATTGCTCATGCCAAAGGCTCCACTCTAATGGCTGGCT
 TCTTGAAGCTTCTACCAATGTTTATCATAGTGTACCAGGAATGATTTCCAGGATAGTGTGTTGCTGATGA
 GATAGCTTGCATCAACCCAGAACACTGCATGCAAGTGTGTGGAAGCAGAGCTGGCTGCTCCAATATTGCT
 TACCCACGCCCTGGTGTACCTTGGTTCCTGTGGGCCCTCGGGCCTGATGATGGCAGTGATGATTGCAG
 CTCTGATGAGTGACTTGGACTCCATCTTTAACAGCGCCAGTACCATATTCACCTCGATGTGTACAACT
 TATCCGCAAGAGTGAAGCTCCCGGAACTAATGATTGTGGCAGGATATTTGTGGCTTTTATGGTTGTC
 ATCAGCATAGCATGGGTGCCAATTATTGTGGAGATGCAAGGAGGCCAAATGTACCTTTACATCCAGGAGG
 TGGCAGATTATCTGACTCCTCCCGTGGCAGCCCTCTTCTTCTGGCAATTTTCTGGAAACGCTGCAATGA
 GCAAGGGGCTTTTTATGGTGGAAATGGCAGGCTTTGTTCTTGGAGCTGTCCGTTTGATACTGGCTTTTACC
 TACCGTGTCTCTGAGTGTGATCAACCTGATAACAGGCCAGGCTTCATCAAAGACATCCATTATATGTACG
 TGGCTACGGCATTATTTGGATCACAGGACTCATTACTGTGATTGTTAGTCTTCTCACACCCTCCAC
 AAAGATCAGATTCGTACCACTACCTTTTGGTCAAAGAAGACCCTGGTGACAAAGGAGAGCTGTTCTCAG
 AAAGACGAACCATACAAAATGCAAGAGAAGAGCATCCTGCAGTGCAGCGAGAATAGCGAAGTCATCAGCC
 ATACTATCCCAACGGGAAGTCTGAAGACAGCATTAAAGGACTGCAACCTGAAGACGTTAATCTGCTGGT
 GACATGCCGAGAAGAGGGCAACCCAGTGGCTTCCATGGGTCAATCAGAGGCGAAGAACACCAAGTAGATGCT
 TATTCCAATGGGCAAGCAGCTCTCATGGGTGAGAGAGAAAAGAGAGAAGGAAACGGAAAAATAGAAGCCGGT
 ATTGGAAGTTCATAGACTGGTTTTGTGGCTTTAAGAGTAAAAGCCTTAGCAAGAGGAGCCTCAGAGACTT
 GATGGATGAGGAGGCTGTGTGTTTACAAATGTTAGAAGAGACTCCACAAGTTAAAGTGATCCTAACATT
 GGACTTTTTGCTGTGTGTTCACTTGAATTTTCATGTTTGTGTTATTTCTCCTTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG219414 representing NM_017391
 Red=Cloning site Green=Tags(s)

MRAVLEAADIIVALYFILVMCIGFFAMWKSNRSTVSGYFLAGRSMTWVAIGASLFVSNIGSEHFIFLAGL
 SGAASGFVAVGAWEFNALLLQLLGWVFIPIYIRSGVYTMPEYLSKRFGGHRIQVYFAALSLLLYIFTKLS
 VDLYSGALFIQESLGNLYVSVILLIGMTALLTVTGLVAVIYDTLQALLMIIGALTMVISMVIGGF
 EEVKRRYMLASPDVASILLKYNLSTNACMVHPKANALKMLRDPDDEDVWPWPGFILGQTPASVWYWCADQ
 VIVQRVLAAKNIAHAKGSTLMAGFLKLLPMFIIIVPGMISRIVFADEIACINPEHCMQVCGSRAGCSNIA
 YPRLVMTLVVGLRGLMMAVMIAALMSDLDSIFNSASTIFTLDVYKLRKSASSRELMIVGRIFVAFMVV
 ISIAWVPIIVEMQGGQMYLYIQEVADYLTPPVAALFLLAIFWKRCNEQGAFYGGMAGFVLGAVRLILAF
 YRAPECDQPDNRPGFIKDIHYMYVATALFWITGLITVIVSLLTPPPTKDQIRTTTFSKKTIVTKESCSQ
 KDEPYKMQEKSILQCSENSEVISHTIPNGKSEDSIKGLQPEDVNLVTCREEGNPVASMGEAETPVDA
 YSNGQAALMGEREREKETENRSRYWKFIDWFCGFKSKLSKRSLRDLMDDEAVCLQMLEETPQVKVILNI
 GLFAVCSLGIFMVFYFSL

TRTRPLE - GFP Tag - V

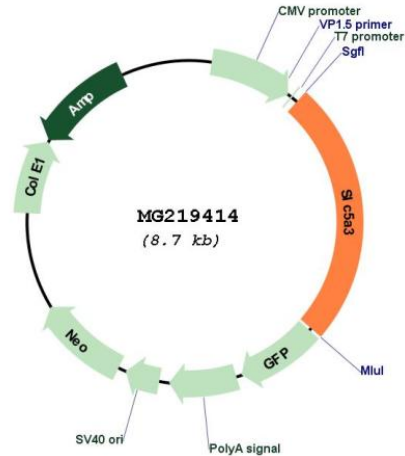
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_017391

ORF Size: 2154 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_017391.3](#), [NP_059087.2](#)

RefSeq Size: 10918 bp

RefSeq ORF: 2157 bp

Locus ID: 53881

UniProt ID: [Q9JKZ2](#)

Cytogenetics: 16 C4

Gene Summary: Prevents intracellular accumulation of high concentrations of myo-inositol (an osmolyte) that result in impairment of cellular function.[UniProtKB/Swiss-Prot Function]