

Product datasheet for **MG213700**

Slc52a3 (NM_027172) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc52a3 (NM_027172) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc52a3
Synonyms:	2310046K01Rik; RFT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG213700 representing NM_027172
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCTTCTGACACACCTACTGGTCTGCGTCTTTGGCATGGGCTCCTGGGTGGCCATCAATGGGCTCT
 GGGTGGAGCTGCCCTGCTGGTGAAGTTGCCGAGGCTGGTACCTGCCTTCTTACCTCACTGTGGT
 CATCCAGCTGGCCAACATAGGCCCTCCTGGTACCCTGATGCACCGCTTCCGACCCGGCTGCCTGTCT
 GAGGTGCCTGTGATCTTCCTTATCCTGTGCGTAGGCACGGCTGCCTGCATTCTCCTAGCCTTCTGTGGA
 ACGTGACCTCCTGGATACAGGTGGACAGCATAGTGTGGCCTTCATCGTCTCACCTTCTTCTGGCCCT
 GGTGGACTGCACCTCTTGTACCTTCTTGCCTTCATGAGCCAGCTGCCTACGTACTATCTTACCACC
 TTCTTCATAGGCGAGGGGCTCAGTGGCCTCCTGCCTGCCCTGGTGGCCCTTGCCAAGGCTCCGGTATCA
 CCACCTGTGTCAATGTCACGGAGACACCAGGGACCACCTTGAACACTATGGAGACTCCCATCACTCAGGG
 AAACCTTAGCCCTTCCCTGCCGTGCGCCAGCTGGCACCAGGAGAGCCGCTACCTGGCCCTCGCTTCTCG
 CCACTGCTCTTCTTCTACTGCTGTCTTCTGACAGGCTGCTGTCTGGTGGCCTTCTTCTCTGCGAGA
 GGCAGCCCTGGGGACGGCAAGGCTCCATAGAGGACCTCCTCCACTCCAGGTACCCCTGCACTCTATCAG
 GCGCCGAGACACAGAGGACACCAGCTCCCTGGGTGCCCTGTGAGCAGCCAGGCAAGGGATCAGTGGAA
 GCCAGTGTGGCTTCGCTCCGCCAGCCAGCTGGCCTTCATCTACTCCGTGGTGGCCTTTGTCAATGCAC
 TCACCAATGGCGTTCTGCCCTCCGTGCAGACCTACTCCTGCCTGCCTTATGGGCCTGTGCTTACCACCT
 GTCTGCCACCTCAGTCCGTGGCCAGCCCTCGCCTGCTTCTCCCATCTTCTGCTAACAGGTGCG
 CTGTTATCTCTGGGGTGTCTACAGTGTGGGGACCGCTTTGGGGCTACAATATGGCCATGGCTGCTA
 TGAGCCCTGCCCTGTCTGCAGGTCACTGGGTGGAGAAGCTTATCGTGTCTCTGGGTGCTGTT
 TGAGCCCTGTCTCAGCTATGTCAAGGTGATGCTGGGTGTGATCTTGCCTGACCGGAGTCGAGTGCCTC
 TTGTGGTGTGGGCAGCGGTGCAGCTGGGCTCTCTGATTGGTGCCTGCTCATGTTCCACTGGTTAATG
 TACTGAACTCTTCTCATCTGCCGACTACTGCAGCCTGGACTGCTCCGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG213700 representing NM_027172
 Red=Cloning site Green=Tags(s)

MAFLTHLLVCVFGMSWVAINGLWVELPLLVTLPPEAWYLPSTLVVIQLANIGPLLVTLMHFRPGLS
 EVPVIFILICVGTAAACILLAFWNVTSWIQGGQHSVAFIVLTFFLALVDCTSSVTFLPFMSQLPTYYLTT
 FFIGELSGLLPALVALVQSGITTCVNVETETPGTTLNMTETPITQGNLSPSLPSPSWHQSRYLAPRFS
 PLLFFLLLSFLTGCCLVAFFLLQRQPWGRQGSIEDLLHSQVTLHSIRPRDTEDTSSLGAPVSSPGKGSVE
 ASVASLRPAQLAFIYSVVAFFNALTNGVLPVSVQTYSCLPYGPVAYHLSATLSSVASPLACFLPIFLPNRS
 LLFLGVLTVLGTGFGAYNMAMAAMSPCPVLQGHWGGEVLIVLSWVLAACLSYVKVYMLGVILRDRSRSL
 LWCGAAVQLGSLIGALLMFPLVNVKLKLFSSADYCSLDCSV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_027172

ORF Size: 1380 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.

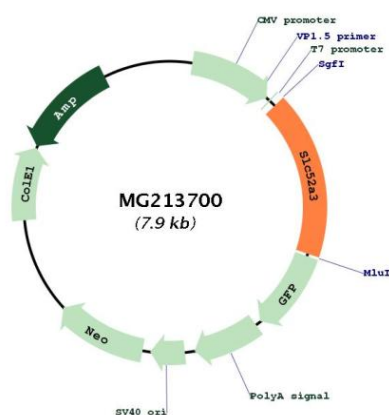
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_027172.3 , NP_081448.2
RefSeq Size:	2698 bp
RefSeq ORF:	1383 bp
Locus ID:	69698
UniProt ID:	Q9D6X5
Cytogenetics:	2 G3
Gene Summary:	Transporter for riboflavin, which must be obtained as a nutrient via intestinal absorption. Riboflavin transport is Na(+)-independent at low pH but significantly reduced by Na(+) depletion under neutral pH conditions.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG213700