

Product datasheet for **RG223591**

SLC36A3 (NM_181774) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC36A3 (NM_181774) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC36A3
Synonyms:	PAT3; TRAMD2; tramdorin2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG223591 representing NM_181774
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCATTGCTTGAAGGGACTACAACAGTGAGCTGAACTCCTTGACAACGGACCTCAGTCACCCTCAG
 AGAGCAGCAGTAGCATTACTTCAGAGAATGTCCATCCTGCTGGAGAAGCTGGACTATCGATGATGCAAAC
 TTTGATCCACTTGTGAAATGCAACATTGGCACAGGGCTCCTGGGGCTTCCCCTGGCCATAAAGAATGCC
 GGCTTGTGGTGGTCTGTGAGCCTTCTGGCCATCGGGGCTCCTACCGTGCATGCGTATGCTCCTGT
 TGAAGTGTGCTCAACACCTCAGCCAGAGACTGCAGAAGACTTTTGTGAAGTATGGAGAGGCCACGATGTA
 CGGCCCTTGAAACCTGCCGAACACCTGGCTGAGGGCCCATGCAGTGTGGGAAGGTACACTGTCAGCTTC
 TTATTAGTCATACCCAGCTGGGCTTCTGCAGTGTATTTATTTATGTTTATGGCAGACAATTTACAACAGA
 TGGTGGAAAAAGCCACGTGACCTCCAACATCTGCCAGCCAGGGAGATTCTGACGCTGACCCCATCCT
 GGACATTCGTTTCTACATGCTGATAATCCTGCCCTTCTGATCCTGTTGGTGTATCCAGAACCTCAAG
 GTGCTGTCCGTCTTCTCGACATTGGCCAACATCACCACTTGGGAGCATGGCTCTGATCTTTGAGTATA
 TCATGGAGGGGATTCCATATCCAGCAACCTACCTTGATGGCAAACCTGGAAGACCTTCTTGCTGTCTT
 TGGTACAGCCATCTTACATTTGAAGGCGTCGGTATGGTTCTGCCTCTCAAAAACCATGAAGCATCCA
 CAGCAGTTTTCTTTGTTCTGTACTTGGGGATGTCCATTGTATCATCCTCTATATCTTACTGGGACAC
 TGGGCTACATGAAGTTTGGGTGAGACACCCGGGCCAGCATCACCTCAACTTGCCCAATTGCTGGTTGTA
 CCAGTCAGTCAAGCTGATGTACTCTATCGGCATCTTCTCACCTATGCCCTCCAGTTCACGTCCAGCT
 GAGATCATCATCCGTTTGCCATCTCCCAAGTGTGAGAGCTGGGCACTGTTTGTAGACCTGTCTGTCC
 GCTCAGCCTTGGTCTGTCTAACCTGTGTCTCAGCATCCTCATCCCCGCTGGACTTGGTCATCTCCCT
 GGTAGGCTCCGTGAGCAGCAGCGCCCTGGCTCTCATCATCCAGCCCTCCTGGAGATCGTCATCTTTTAC
 TCTGAGGACATGAGCTGTGTACCAATTGCCAAGGACATCATGATTAGCATCGTGGGCCTTTTAGGGTGTA
 TATTTGGGACATACCAAGCCCTCTATGAGTTGCCCAACCCATCAGCCATTCCATGGCCAACTCCACAGG
 TGCCATGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223591 representing NM_181774
 Red=Cloning site Green=Tags(s)

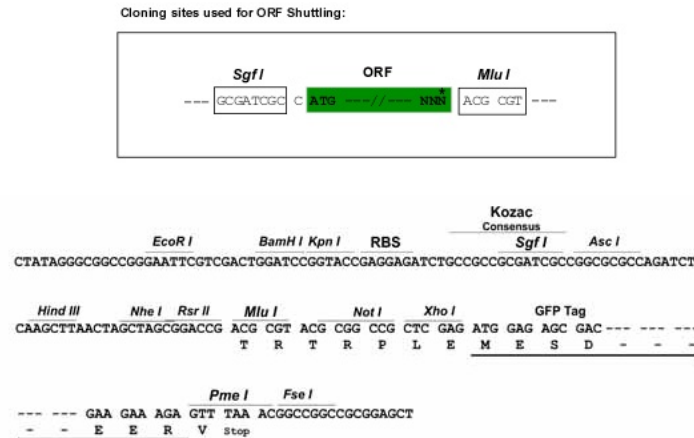
MSLLGRDYNSELNSLDNGPQSPSESSSSITSENVHPAGEAGLSMMQTLIHLLKCNIGTGLLGLPLAIKNA
 GLLVGPVSLLAIGVLTVMCMVILLNCAQHLSQLQKTFVNYGEATMYGLETCPNTWLRHAAVWGRYTVSF
 LLVITQLGFCSVYFMFADNLQQMVEKAHVTSNICQPREILTLTPILDIRFYMLIILPFLILLVFIQNLK
 VLSVFSTLANITTLGSMALIFEYIMEGIPYPSNPLMANWKTFLFFGTAFITFEGVGMVPLKNQMKHP
 QQFSFVLYLGMISIVIIILYILLGTLGYMKFGSDTRASITLNLPCWLYQSVKLMYSIGIFFTYALQFHVPA
 EIIIPFAISQVSESWALFVDLSVRSALVCLTCVSAILIPRLDLVISLVGSVSSSALALIIPALLEIVIFY
 SEDMSCVTIAKDIMISIVGLLGICFGTYQALYELPQPISHSMANSTGVHA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_181774

ORF Size: 1410 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.

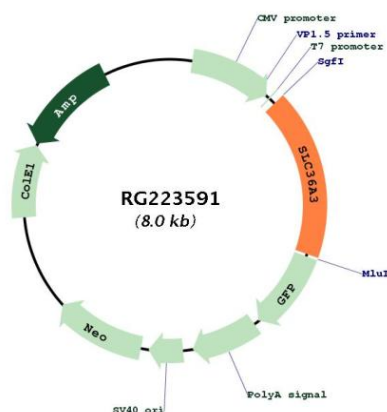
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_181774.2](#), [NP_861439.2](#)
 RefSeq Size: 2456 bp
 RefSeq ORF: 1413 bp
 Locus ID: 285641
 UniProt ID: [Q495N2](#)
 Cytogenetics: 5q33.1
 Protein Families: Transmembrane

Product images:



Circular map for RG223591