

Product datasheet for **RC223591**

SLC36A3 (NM_181774) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC36A3 (NM_181774) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC36A3
Synonyms:	PAT3; TRAMD2; tramdorin2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC223591 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCATTGCTTGAAGGGACTACAACAGTGAGCTGAACCTCTTGACAACGGACCTCAGTCACCCTCAG
 AGAGCAGCAGTAGCATTACTTCAGAGAATGTCCATCCTGCTGGAGAAGCTGGACTATCGATGATGCAAAAC
 TTTGATCCACTTGTGAAATGCAACATTGGCACAGGGCTCCTGGGGCTTCCCCTGGCCATAAAGAATGCC
 GGCTTGTGGTGGTCTGTGAGCCTTCTGGCCATCGGGGTCTCACCGTGCATGGTGCATCCTGT
 TGAAGTGTGCTCAACACCTCAGCCAGAGACTGCAGAAGACTTTTGTGAAGTATGGAGAGGCCACGATGTA
 CGGCCTTGAAACCTGCCGAACACCTGGCTGAGGGCCATGCAGTGTGGGAAGGTACACTGTCAGCTTC
 TTATTAGTCATCACCCAGCTGGGCTTCTGCAGTGTATTTATTTATGTTTATGGCAGACAATTTACAACAGA
 TGGTGGAAAAAGCCACGTGACCTCCAACATCTGCCAGCCAGGGAGATTCTGACGCTGACCCCATCCT
 GGACATTCGTTTCTACATGCTGATAATCCTGCCCTTCTGATCCTGTTGGTGTATCCAGAACCTCAAG
 GTGCTGTCCGTCTTCTCGACATTGGCCAACATCACCACTTGGGAGCATGGCTCTGATCTTTGAGTATA
 TCATGGAGGGGATTCCATATCCAGCAACCTACCTTGTATGGCAAACCTGGAAGACCTTCTTGCTGTCTT
 TGGTACAGCCATCTTACATTTGAAGGCGTCGGTATGGTTCTGCCTCTCAAAAACCATGAAGCATCCA
 CAGCAGTTTTCTTTGTTCTGTACTTGGGGATGTCCATTGTATCATCCTCTATATCTTACTGGGACAC
 TGGGCTACATGAAGTTTGGGTGAGACACCCGGGCCAGCATCACCTCAACTGCCCAATTGCTGGTTGTA
 CCAGTCAGTCAAGCTGATGTACTCTATCGGCATCTTCTCACCTATGCCCTCCAGTTCACGTCCAGCT
 GAGATCATCATCCGTTTGCCATCTCCCAAGTGTGAGAGCTGGGCACTGTTTGTAGACCTGTCTGTCC
 GCTCAGCCTTGGTCTGTCTAACCTGTGTCTCAGCATCCTCATCCCCGCTGGACTTGGTATCTCCCT
 GGTAGGCTCCGTGAGCAGCAGCGCCCTGGCTCTCATCATCCAGCCCTCTGGAGATCGTCATCTTTTAC
 TCTGAGGACATGAGCTGTGTACCATGCCAAGGACATCATGATTAGCATCGTGGCCTTTTAGGGTGTA
 TATTTGGGACATACCAAGCCCTCTATGAGTTGCCCAACCCATCAGCCATTCCATGGCCAACTCCACAGG
 TGCCATGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223591 protein sequence
 Red=Cloning site Green=Tags(s)

MSLLGRDYNSELNSLDNGPQSPSESSSITSENVHPAGEAGLSMMQTLIHLLKCNIGTGLLGLPLAIKNA
 GLLVGPVSLLAIGVLTVMCMVILLNCAQHLSQRLQKTFVNYGEATMYGLETCPNTWLRHAVWGRYTVSF
 LLVITQLGFCSVYFMFADNLQQMVEKAHVTSNICQPREILTLTPILDIRFYMLIILPFLILLVFIQNLK
 VLSVFSTLANITTLGSMALIFEYIMEGIPYPSNLPLMANWKTFLFFGTAFITFEVGMVPLKNQMKHP
 QQFSFVLYLGMISIVIIYLLGLGYMKFGSDTRASITLNLPCWLYQSVKLMYSIGIFFTYALQFHVPA
 EIIIPFAISQVSESWALFVDLSVRSALVCLTCVSAILIPRLDLVISLVGSVSSSALALIIPALLEIVIFY
 SEDMSCVTIAKDIMISIVGLLGCIFGTQALYELPQPIHSMANSTGVHA

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

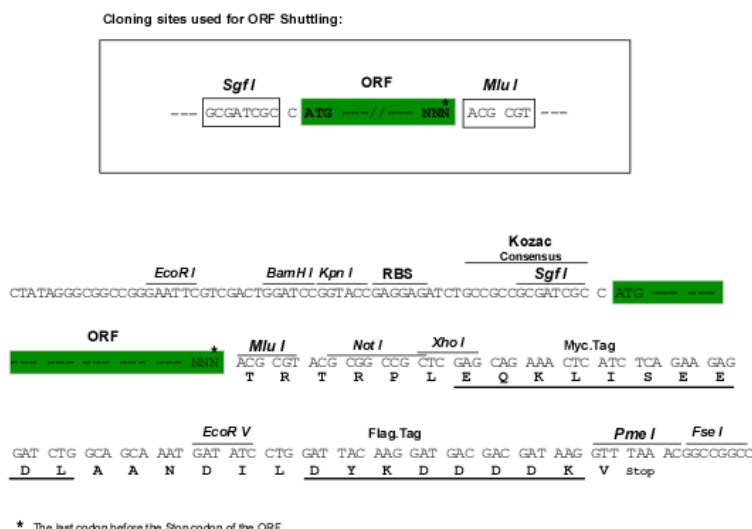
Chromatograms:

https://cdn.origene.com/chromatograms/mk6559_c01.zip

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.

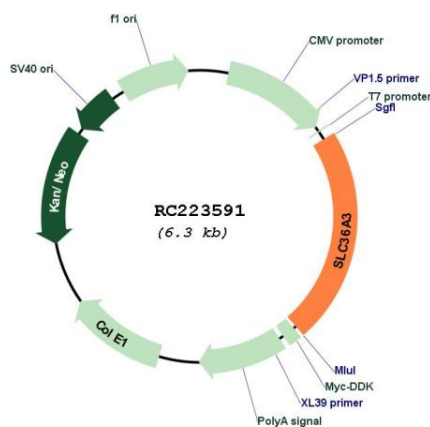
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

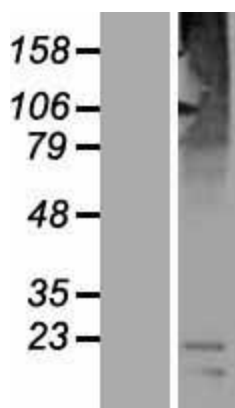
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_181774.4</u>
RefSeq Size:	2860 bp
RefSeq ORF:	1413 bp
Locus ID:	285641
UniProt ID:	<u>Q495N2</u>
Cytogenetics:	5q33.1
Protein Families:	Transmembrane
MW:	51.8 kDa

Product images:



Circular map for RC223591



Western blot validation of overexpression lysate (Cat# [LY405628]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223591 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).