

## Product datasheet for **RG208431**

### SLC23A1 (NM\_152685) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC23A1 (NM_152685) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC23A1
Synonyms:	SLC23A2; SVCT1; YSPL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208431 representing NM\_152685  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGGCCAGGAGACCTCGAGGGCCGACACAGCATGAAACCACCAGGGACCCCTCGACCCCGCTAC  
 CCACAGAGCCTAAGTTTGACATGTTGTACAAGATCGAGGACGTGCCACCTTGGTACCTGTGCATCCTGCT  
 GGGCTTCCAGCACTACCTGACATGCTTCACTGGTACCATCGCCGTGCCCTTCTGCTGGCTGAGGCGCTG  
 TGTGTGGGCCACGACCAGCACATGGTTAGTCAGCTCATCGGCACCATCTTACGTCGCTGGGCATCACCA  
 CTCTCATCCAGACCACCGTGGGCATCCGGCTGCCGCTGTTCCAGGCCAGTGCCTTTGCATTTCTGGTTCC  
 AGCCAAAGCCATACTGGCTCTGGAGAGATGAAATGCCCCCGGAAGAGGAGATCTACGGTAACTGGAGT  
 CTGCCCTGAACACCTCTCATATTTGGCACCCACGGATACGGGAGGTGGGTTTGCATGTCCAGGGTGCAA  
 TCATGGTGTCCAGCGTGGTGGAGGTGGTATTGGCCTGCTGGGGCTGCCTGGGGCCCTGCTCAACTACAT  
 TGGGCCTCTCACAGTCAACCCACTGTCTCCCTCATTGGCCTTTCTGTCTTCCAAGCTGCTGGCGACCGA  
 GCTGGCTCCCAGTGGGGCATCTCAGCTTGTCCATTCTCCTGATCATCCTCTTCTCCAGTACCTGCGCA  
 ACCTCACCTTCTGCTGCCTGTCTACCGCTGGGGCAAGGGCCTCACTCTCCTCCGCATCCAGATCTTCAA  
 AATGTTTCTATCATGCTGGCCATCATGACCGTGTGGTCTGCTGCTATGTCTGACCTTGACAGACGTG  
 CTGCCACAGACCCAAAAGCCTATGGCTTCCAGGCACGAACCGATGCCCGTGGTACATCATGGCTATTG  
 CACCCTGGATCCGCATCCCCTACCCCTGTCACTGGGGCCTGCCACGGTGACTGCGGCTGCTGTCTGGG  
 AATGTTACAGCGCCACTCTGGCAGGCATCATTGAGTCCATCGGAGATTACTACGCTGTGCCCGCCTGGT  
 GGTGCACCACCCCTCCAGTACATGCTATCAACAGGGGCATCTTACCAGGCAATTTGCTGCATCATCG  
 CGGGGCTATTGGGCACGGGCAACGGGTCACCTCGTCCAGTCCCAACATTGGCGTCTGGGAATTACCAA  
 GGTGGGCAGCCGGCGCGTGGTGCAGTATGGTGGCGGTATCATGCTGGTCTGGGCACCATCGGCAAGTTC  
 ACGGCCCTCTTCGCTCGCTCCCTGACCCATCCTGGGGGCATGTTCTGCACTCTCTTTGGCATGATTA  
 CAGCTGTGGGGCTGTCCAACCTGCAATTTGTGGACATGAACTCCTCTCGCAACCTCTTCTGCTGGGATT  
 TTCCATGTTCTTCGGGCTCACGCTGCCAATTACCTGGAGTCCAACCTGGCGCCATCAATACAGGCATT  
 CTTGAAGTGGATCAGATTCTGATTGTGCTGCTGACCACGGAGATGTTTGTGGCGGGTGCCTTGCTTTCA  
 TACTTGACAACACAGTGCAGGGAGCCAGAGGAGCGTGGTCTGATACAGTGGAAAGCTGGGGCTCATGC  
 CAACAGTGACATGTCTTCCAGCCTCAAGAGCTACGATTTCCCATTGGGATGGGCATAGTAAAAAGAATT  
 ACCTTTCTGAAATACATTCTATCTGCCAGTCTTCAAAGGATTTCTTCAAGTTCAAAGATCAGATTG  
 CAATTCAGAAGACACTCCAGAAAATACAGAACTGCATCTGTGTGCCACCAAGGTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG208431 representing NM\_152685  
 Red=Cloning site Green=Tags(s)

MRAQEDLEGRTQHETTRDPSTPLPTEPKFDMLYKIEDVPPWYLCILLGFQHYLTCFSGTIAVPFLLAEAL  
 CVGHDQHMVSQLIGTIFTQVIGITLIQTTVGIRLPLFQASAFALVPAKAILALERWKCPPEEEIYGNWS  
 LPLNTSHIWHPRIREVGLHVQGAIMVSSVVEVIGLLGLPGALLNYIGPLTVTPTVSLIGLSVFAAGDR  
 AGSHWGISACSILLIILFSQYLRNLTFLLPVYRWGKGLTLLRIQIFKMFPIMLAIMTVWLLCYVLTLDV  
 LPTDPKAYGFQARTDARGDIMAIAPWIRIPYPCQWGLPTVTAAVLGMFSATLAGIIESIGDYYACARLA  
 GAPPPPVHAINRGIFTEGICCI IAGLLGTNGSTSSSPNIGVLTGKVGSRVQYGAAILVLGTIGKF  
 TALFASLPDPILGGMFCTLFGMITAVGLSNLQFVDMNSSRNLFVLGFSMFFGLTLPNYLESNPGAINTGI  
 LEVDQILIVLLTTEMFVGGCLAFILDNTVPGSPEERGLIQWKAGAHANSMSSSLKSYDFPIGMGIVKRI  
 TFLKYIPICPVFKGFSSSKDQIAIPEDTPENTETASVCTKV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_152685

ORF Size: 1806 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](mailto: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\\_152685.3](#)

RefSeq Size: 2338 bp

RefSeq ORF: 1809 bp

Locus ID: 9963

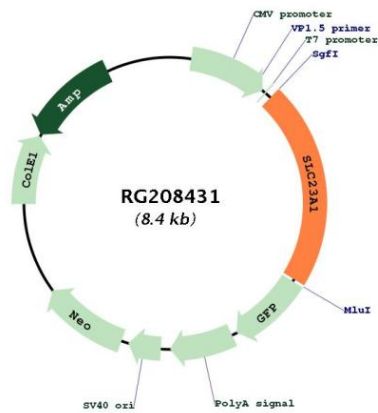
UniProt ID: [Q9UHI7](#)

Cytogenetics: 5q31.2

Protein Families: Transmembrane

**Gene Summary:** The absorption of vitamin C into the body and its distribution to organs requires two sodium-dependent vitamin C transporters. This gene encodes one of the two transporters. The encoded protein is active in bulk vitamin C transport involving epithelial surfaces. Previously, this gene had an official symbol of SLC23A2. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]

**Product images:**



Circular map for RG208431