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Product datasheet for RC208431

SLC23A1 (NM_152685) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC23A1 (NM_152685) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC23A1
Synonyms:	SLC23A2; SVCT1; YSPL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208431 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGGCCCAGGAGGACCTCGAGGGCCGGACACAGCATGAAACCACCAGGGACCCCTCGACCCCGCTAC
CCACAGAGCCTAAGTTTGACATGTTGTACAAGATCGAGGACGTGCCACCTTGGTACCTGTGCATCCTGCT
GGGCTTCCAGCACTACCTGACATGCTTCAGTGGTACCATCGCCGTGCCCTTCCTGCTGGCTGAGGCGCTG
TGTGTGGGCCACGACCAGCACATGGTTAGTCAGCTCATCGGCACCATCTTCACGTGCGTGGGCATCACCA
CTCTCATCCAGACCACCGTGGGCATCCGGCTGCCGCTGTTCCAGGCCAGTGCCTTTGCATTTCTGGTTCC
AGCCAAAGCCATACTGGCTCTGGAGAGATGGAAATGCCCCCCGGAAGAGGAGATCTACGGTAACTGGAGT
CTGCCCCTGAACACCTCTCATATTTGGCACCCACGGATACGGGAGGTGGGTTTGCATGTCCAGGGTGCAA
TCATGGTGTCCAGCGTGGTGGAGGTGGTGATTGGCCTGCTGGGGCTGCCTGGGGCCCTGCTCAACTACAT
TGGGCCTCTCACAGTCACCCCCACTGTCTCCCTCATTGGCCTTTCTGTCTTCCAAGCTGCTGGCGACCGA
GCTGGCTCCCACTGGGGCATCTCAGCTTGCTCCATTCTCCTGATCATCCTCTTCTCCCAGTACCTGCGCA
ACCTCACCTTCCTGCTGCCTGTCTACCGCTGGGGCAAGGGCCTCACTCTCCTCCGCATCCAGATCTTCAA
AATGTTTCCTATCATGCTGGCCATCATGACCGTGTGGCTGCTCTGCTATGTCCTGACCTTGACAGACGTG
CTGCCCACAGACCCAAAAGCCTATGGCTTCCAGGCACGAACCGATGCCCGTGGTGACATCATGGCTATTG
CACCCTGGATCCGCATCCCCTACCCCTGTCAGTGGGGCCTGCCCACGGTGACTGCGGCTGCTGTCCTGGG
AATGTTCAGCGCCACTCTGGCAGGCATCATTGAGTCCATCGGAGATTACTACGCCTGTGCCCGCCTGGCT
GGTGCACCACCCCCTCCAGTACATGCTATCAACAGGGGCATCTTCACCGAAGGCATTTGCTGCATCATCG
CGGGGCTATTGGGCACGGGCAACGGGTCCACCTCGTCCAGTCCCAACATTGGCGTCCTGGGAATTACCAA
GGTGGGCAGCCGGCGCGTGGTGCAGTATGGTGCGGCTATCATGCTGGTCCTGGGCACCATCGGCAAGTTC
ACGGCCCTCTTCGCCTCGCTCCCTGACCCCATCCTGGGGGGCATGTTCTGCACTCTCTTTGGCATGATTA
CAGCTGTGGGGCTGTCCAACCTGCAATTTGTGGACATGAACTCCTCTCGCAACCTCTTCGTGCTGGGATT
TTCCATGTTCTTCGGGCTCACGCTGCCCAATTACCTGGAGTCCAACCCTGGCGCCATCAATACAGGCATT
CTTGAAGTGGATCAGATTCTGATTGTGCTGCTGACCACGGAGATGTTTGTGGGCGGGTGCCTTGCTTTCA
TACTTGACAACACAGTGCCAGGGAGCCCAGAGGAGCGTGGTCTGATACAGTGGAAAGCTGGGGCTCATGC
CAACAGTGACATGTCTTCCAGCCTCAAGAGCTACGATTTCCCCATTGGGATGGGCATAGTAAAAAGAATT
ACCTTTCTGAAATACATTCCTATCTGCCCAGTCTTCAAAGGATTTTCTTCAAGTTCAAAAGATCAGATTG
CAATTCCAGAAGACACTCCAGAAAATACAGAAACTGCATCTGTGTGCACCAAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208431 protein sequence
Red=Cloning site Green=Tags(s)

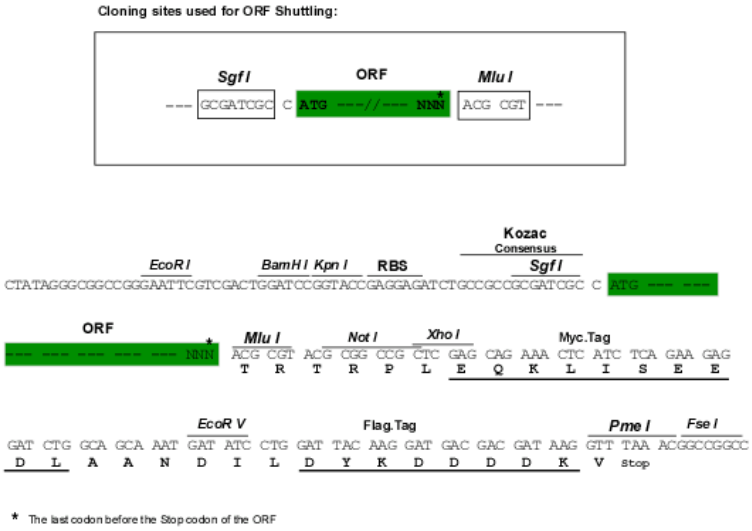
MRAQEDLEGRTQHETTRDPSTPLPTEPKFDMLYKIEDVPPWYLCILLGFQHYLTCFSGTIAVPFLLAEAL
CVGHDQHMVSQLIGTIFTCVGITTLIQTTVGIRLPLFQASAFAFLVPAKAILALERWKCPPEEEIYGNWS
LPLNTSHIWHPRIREVGLHVQGAIMVSSVVEVVIGLLGLPGALLNYIGPLTVTPTVSLIGLSVFQAAGDR
AGSHWGISACSILLIILFSQYLRNLTFLLPVYRWGKGLTLLRIQIFKMFPIMLAIMTVWLLCYVLTLTDV
LPTDPKAYGFQARTDARGDIMAIAPWIRIPYPCQWGLPTVTAAAVLGMFSATLAGIIESIGDYYACARLA
GAPPPPVHAINRGIFTEGICCIIAGLLGTGNGSTSSSPNIGVLGITKVGSRRVVQYGAAIMLVLGTIGKF
TALFASLPDPILGGMFCTLFGMITAVGLSNLQFVDMNSSRNLFVLGFSMFFGLTLPNYLESNPGAINTGI
LEVDQILIVLLTTEMFVGGCLAFILDNTVPGSPEERGLIQWKAGAHANSDMSSSLKSYDFPIGMGIVKRI
TFLKYIPICPVFKGFSSSSKDQIAIPEDTPENTETASVCTKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6347_b11.zip

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 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: 2378 bp

RefSeq ORF: 1809 bp

Locus ID: 9963

UniProt ID: Q9UHI7

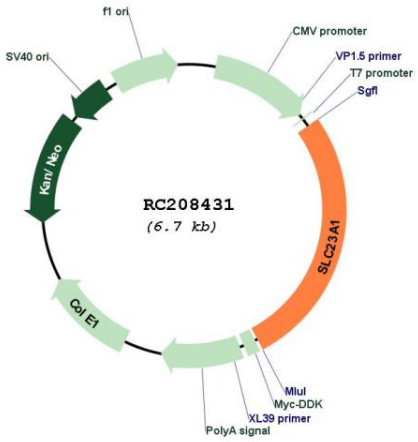
Cytogenetics: 5q31.2

Protein Families: Transmembrane

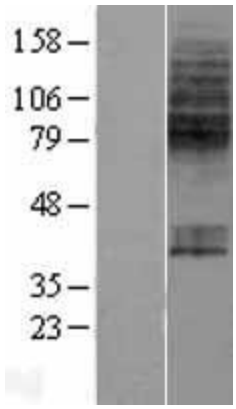
MW: 65.2 kDa

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 RC208431



Western blot validation of overexpression lysate (Cat# [LY407361]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208431 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).