

Product datasheet for **RC227976**

SLC46A3 (NM_001135919) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC46A3 (NM_001135919) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC46A3
Synonyms:	FKSG16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227976 representing NM_001135919
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGATTTTATTTGTAGAACCTGCCATTTTCCTTAGTGCATTTGCTATGACTTTGACCGGTCCACTGA
 CAACGCAATATGTTTATCGGAGAATATGGGAAGAACTGGCAACTACACTTTTTTCATCTGATAGCAATAT
 TTCTGAGTGTGAAAAAACAAGCAGCCCAATTTTGCATTCCAGGAGGAAGTTCAGAAAAAGTGCA
 CGTTTTAATCTGCAGATGGACATAAGTGGATTAATTCCTGGTCTAGTGTCTACATTCATACTTTTGTCTA
 TTAGTGATCACTACGGACGAAAATTCCTATGATTTTGTCTTCCGTTGGTGTCTTGCAACCAGCGTTTG
 GCTCTGTTTGTCTTGTATTTTGCCTTCCATTCCAGCTTTTGATTGCATCTACCTTCATTGGTGCATTT
 TGTGGCAATTATACCACATTTTGGGAGCTTGTTCCTATATAGTTGATCAGTGTAAAGAACACAAAC
 AAAAAACAATTCGAATAGCTATCATTGACTTTCTACTTGGACTTGTACTGGACTAACAGGACTGTCATC
 TGCTATTTTATTAGAGAGCTAGGTTTTGAGTGGTCGTTTCTAATTATTGCTGTGTCTCTTGTCTGTTAAT
 TTGATCTATATTTATTTTTTCTCGGAGATCCAGTGAAAGAGTGTTCATCTCAGAATGTTACTATGTCAT
 GTAGTGAAGGCTTCAAAAACCTATTTTACCGAACTTACATGCTTTTTAAGAATGCTTCTGGTAAGAGACG
 ATTTTTGCTCTGTTTGTACTTTTTACAGTAATCACTTATTTTTTGTGGTAATTGGCATTGCCCAATT
 TTTATCCTTTATGAATTGGATTCACCACTCTGCTGGAATGAAGTTTTTATAGGTTATGGATCAGCTTTGG
 GTAGTGCCTCTTTTTGACTAGTTTCTAGGAATATGGCTTTTTTCTTATTGTATGGAAGATTTTCATAT
 GGCCTTCATTGGGATTTTACCACGATGACAGGAATGGCTATGACCGCGTTTGCCAGTACAACACTGATG
 ATGTTTTTAGCCAGGGTCCGTTCTTTTCACTATTGTCCATTCTGTCTACGGTCCATGTTGTCAA
 AAGTGGTTCGTTTCGACTGAACAAGGCACCCTGTTTGTCTTATTGCTTTTCTAGAAACACTTGGAGGAGT
 CACTGCAGTTTCTACTTTTAAATGGAATTTACTAGCCACTGTTGCTTGGTACCCTGGCTTCACTTTCCTG
 CTGTCTGCTGGTCTGTTACTACTTCCAGCCATCAGTCTATGTGTTGTCAAGTGTACCAGCTGGAATGAGG
 GAAGCTATGAAGTCTTATACAAGAAGAATCCAGTGAAGATGCTTCCAGACAGAGCCTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227976 representing NM_001135919
 Red=Cloning site Green=Tags(s)

MKILFVEPAIFLSAFAMTLTGPLTTQYVYRRIWEETGNYTFSSDSNISECEKNKSSPIFAFQEEVQKKVS
 RFNLQMDISGLIPGLVSTFILLISDHYGRKFPMLSSVGLATSVWLCCLCYFAFPFQLLIASFTIGAF
 CGNYTTFWGACFAYIVDQCKEKKQKTIIRIAIIDFLLGLVTGLTGLSSGYFIRELGFWSFLIIAVSLAVN
 LIYILFFLGDPVKECSSQNVMTMSCSEGFKNLFYRTYMLFKNASGKRRFLLCLLFTVITYYFVVIIGIAPI
 FLYELDSPLCWNEVF IGYGSALGSASFLTSFLGIWLF SYCMEDIHMAFIGIFTTMTGMAMTAFASHTLM
 MFLARVPFLFTIVPFSVLRSM LSKVVRSTEQGTLFACIAFLETLGGVTAVSTFNGIYSATVAWYPGFFTL
 L SAGLLLLPAISLCVVKCTSWNEGSYELLIQEESSEDASDRAC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001135919

ORF Size: 1389 bp

OTI Disclaimer: 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_001135919.1](#), [NP_001129391.1](#)

RefSeq ORF: 1392 bp

Locus ID: 283537

UniProt ID: [Q7Z3Q1](#)

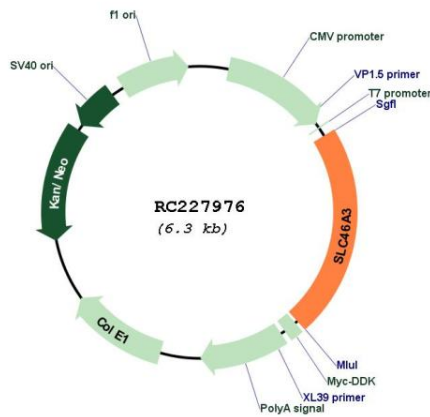
Cytogenetics: 13q12.3

Protein Families: Transmembrane

MW: 51.5 kDa

Gene Summary: The protein encoded by this gene is a member of a transmembrane protein family that transports small molecules across membranes. The encoded protein has been found in lysosomal membranes, where it can transport catabolites from the lysosomes to the cytoplasm. This protein has been shown to be an effective transporter of the cytotoxic drug maytansine, which is used in antibody-based targeting of cancer cells. [provided by RefSeq, Dec 2016]

Product images:



Circular map for RC227976