

## Product datasheet for **RC228442**

### SLC13A2 (NM\_001145976) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC13A2 (NM_001145976) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC13A2
Synonyms:	NaCT; NaDC-1; NADC1; SDCT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC228442 representing NM\_001145976  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCACCTGCTGGCAGCCCTGTGGCCTATCGCTCCTACCTGATCGTGTTCCTCGTGCCATTCTCC  
 TGCTGCCTCTGCCATCCTCGTCCCAAGTAAGGTTGCCGTCGAGTATCTTAAGGACTCCAACCTCCTGTT  
 CTTGCGGGGGCTGCTGGTGGCCATCGCGGTGGAACACTGGAACCTGCATAAACGCATCGCCCTCCGTGTC  
 CTCCTCATCGTTGGGGTGCAGCCTGCCCGCTAATCCTGGGCTTCATGCTGGTACGCGCCTCCTGTCCA  
 TGTGGATCAGCAACACGGCCACCTCAGCCATGATGGTGGCCATCGCACATGCCGCTCCTGGACCAGCTGCA  
 CAGCTCGCAAGCCAGCAGCAACGTCGAGGAGGGCAGCAACAACCCACCTTCGAGCTCCAGGAACCAAGT  
 CCCCAGAAGGAGGTGACCAAGCTTGATAATGGGAGGCCCTCCTGTACGCTCGCTCCTCGGAGGGGA  
 GGGCACATCTCAGCCAGAAGCATCTCCACCTCACCCAGTGCATGAGCCTGTGCGTGTGCTACTCCGCCAG  
 CATCGGGGGCATCGCCACGCTGACTGGCACCGCACCAACCTGGTGTGCAAGGCCAGATCAACTCGCTC  
 TTCCCCAAAACGGCAAGTGGTGAACCTCGCCTCCTGGTTCAGCTTCGCTTCCCACCATGGTCACT  
 TGCTGCTGCTGGCCTGGTGTGGCTGCAGATCCTCTCCTGGGCTTCAACTTCCGGAAGAACTTTGGCAT  
 TGGGAAAAGATGCAGGAGCAACAGCAGGCAGCCTACTGCGTCATCCAGACCGAGCACAGGCTGCTGGGC  
 CCCATGACCTTTGCAGAAAAGGCCATCAGCATCCTATTCGTCATCCTGGTGTGCTGCTGGTTACCCGGG  
 AGCCGGGCTTTTTCTGGCTGGGGCAATTTGGCTTTCCCAATGCCAAGGGGGAGAGCATGGTGTCCGA  
 TGGGACAGTGGCCATCTCATCGGCATAATTATGTTTCATACCTCCAAGTCCCAGGGCTGACCCAG  
 GACCCAGAAAACCCAGGGAAGCTGAAGGCCCTCTGGCCTCCTCGACTGGAAGACGGTGAACCAAGA  
 TGCCGTGGAATATCGTGTATTGCTGGGTGGTGGCTATGCCCTGGCCAAGGGCAGTGAGCATCGGGCT  
 GTCAGATGGCTGGGAAACAAGCTGACCCCACTGCAGAGTGTGCCAGCTCCAGCCATTGCCATCATCCTC  
 TCCTCCTGGTGGCCACCTTACCCGAGTCACTAGCAACGTGGCCACCACTACGATCTTCTGCCCCATCC  
 TAGCCTCCATGGCCAGGCCATCTGCCTCCACCCTCTCTACGTCATGCTCCCTGCACTCTGGCCACCTC  
 CCTGGCCTTATGTTGCCTGTGGCCACCCCGCCAATGCCATCGTCTTCTCTTTCGGGGACCTCAAAGTG  
 TTGGATATGGCCCGGGCAGGATTCTCCTCAACATCATTGGAGTCTGATCATCGCACTGGCCATCAACA  
 GCTGGGGCATCCCCCTTTCAGCCTGCACTCTTCCCCTCCTGGGCACAGTCCAACACCACAGCCAGTG  
 CCTGCCAAGCCTGGCCAACACCACCAACCAAGCCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228442 representing NM\_001145976  
 Red=Cloning site Green=Tags(s)

MATCWQALWAYRSLIVFFVPIILLPLPILVPSKVAVEYLKDSNLLFFGGLLVIAIVEHWNLHKRIALRV  
 LLIVGVRPAPLILGFMLVTAFLSMWISNTATSAMMVPIDHAVLDQLHSSQASSNVEEGSNPTFELQEPS  
 PQKEVTKLDNGQALPVTSASSEGRAHLSQKHLHLTQCMSLCVCYSASIGGIATLTGTAPNLVLQGGINSL  
 FPQNGNVNFAWFSFAFPTMVIILLLAWLWLQILFLGFNFRKNFGIGEKMQEQQQAAYCVIQTEHRLLG  
 PMTFAEKAIISILFVILVLLWFTREPGFFLWGNLAFPNAGKESMVS DGTVAIFIGIIMFIIPSKFPLTQ  
 DPENPGKLGKAPLGLLDWKTVNQKMPWNI VLLGGGYALAKGSERSGLSEWLG NKL TPLQSV PAPAIAIIL  
 SLLVATFTECTSNVATTTIFLPI LASMAQAICLHPLYVMLPCTLATSLAFMLPVATPPNAIVFSFGDLKV  
 LDMARAGFLLNIIGVLI IALAINSWGIPLFSLHSFPSWAQSNTTAQCLPSLANTTTTSP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8066\\_g04.zip](https://cdn.origene.com/chromatograms/mk8066_g04.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001145976

ORF Size: 1647 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\\_001145976.1](#), [NP\\_001139448.1](#)

RefSeq ORF: 1649 bp

Locus ID: 9058

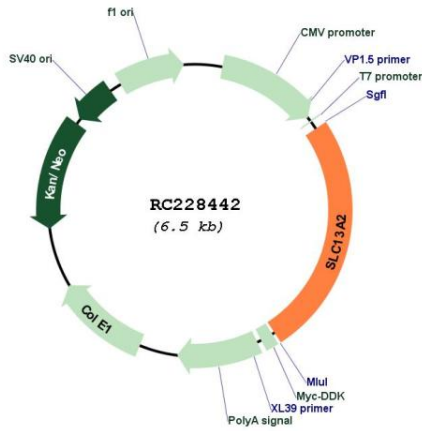
Cytogenetics: 17q11.2

Protein Families: Transmembrane

MW: 59.5 kDa

Gene Summary: The protein encoded by this gene is a sodium-coupled citrate transporter that is regulated by the chaperone activity of cyclophilin b. The encoded protein may play a role in the formation of kidney stones. [provided by RefSeq, Oct 2016]

Product images:



Circular map for RC228442