

Product datasheet for **RG228442**

SLC13A2 (NM_001145976) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC13A2 (NM_001145976) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC13A2
Synonyms:	NaCT; NaDC-1; NADC1; SDCT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG228442 representing NM_001145976
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCTGCTGGCAGCCCTGTGGCCTATCGCTCCTACCTGATCGTGTCTTCGTCGCCATTCTCC
 TGCTGCCTCTGCCATCCTCGTCCCAAGTAAGGTTGCCGTCGAGTATCTTAAGGACTCCAACCTCCTGTT
 CTTGCGGGGGCTGCTGGTGGCCATCGCGGTGGAACACTGGAACCTGCATAAACGCATCGCCCTCCGTGTC
 CTCCTCATCGTTGGGGTGCAGCCCTGCCCGCTAATCCTGGGCTTCATGCTGGTACAGCCCTCCTGTCCA
 TGTGGATCAGCAACACGGCCACCTCAGCCATGATGGTGGCCATCGCACATGCCGTCCTGGACCAGCTGCA
 CAGCTCGCAAGCCAGCAGCAACGTCGAGGAGGGCAGCAACAACCCACCTTCGAGCTCCAGGAACCAAGT
 CCCCAGAAGGAGGTGACCAAGCTTGATAATGGGCAGGCCCTCCCTGTACGTCGCTCCTCGGAGGGGA
 GGGCACATCTCAGCCAGAAGCATCTCCACCTCACCCAGTGCATGAGCCTGTGCGTGTGCTACTCCGCCAG
 CATCGGGGGCATCGCCACGCTGACTGGCACCGCACCAACCTGGTGTGCAAGGCCAGATCAACTCGCTC
 TTCCCCAAAACGGCAAGTGGTGAACCTCGCCTCCTGGTTCAGCTTCGCCTTCCCACCATGGTCACT
 TGCTGCTGCTGGCCTGGTGTGGCTGCAGATCCTCTCCTGGGCTTCAACTTCCGGAAGAACTTTGGCAT
 TGGGAAAAGATGCAGGAGCAACAGCAGGCAGCCACTACTGCGTCATCCAGACCGAGCACAGGCTGCTGGGC
 CCCATGACCTTTGCAGAAAAGGCCATCAGCATCCTATTCGTCATCCTGGTGTGCTCTGGTTACCCGGG
 AGCCGGGCTTTTTCTGGCTGGGGCAATTTGGCTTTCCCAATGCCAAGGGGGAGAGCATGGTGTCCGA
 TGGGACAGTGGCCATCTCATCGGCATAATTATGTTATCATACCCTCCAAGTCCCAGGGCTGACCCAG
 GACCCAGAAAACCCAGGGAAGCTGAAGGCCCTCTGGCCTCCTCGACTGGAAGACGGTGAACCAAGA
 TGCCGTGGAATATCGTGTATTGCTGGGTGGTGGCTATGCCCTGGCCAAGGGCAGTGAGCATCGGGCT
 GTCAGAGTGGCTGGGAAAACAAGCTGACCCCACTGCAGAGTGTGCCAGCTCCAGCCATTGCCATCATCCTC
 TCCTCCTGGTGGCCACCTTACCCGAGTGCAGTGCAGCAACGTGGCCACCACTACGATCTTCTGCCATCC
 TAGCCTCCATGGCCAGGCCATCTGCCTCCACCCTCTCTACGTCATGCTCCCTGCACTCTGGCCACCTC
 CCTGGCCTTATGTTGCCTGTGGCCACCCCGCCAATGCCATCGTCTTCTCTTTCGGGGACCTCAAAGTG
 TTGATATGGCCCGGGCAGGATTCTCCTCAACATCATTGGAGTCTGATCATCGCACTGGCCATCAACA
 GCTGGGGCATCCCCCTTTCAGCCTGCACTCTTCCCCTCCTGGGCACAGTCCAACACCACAGCCAGTG
 CCTGCCAAGCCTGGCCAACACCACCAACCAAGCCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG228442 representing NM_001145976
 Red=Cloning site Green=Tags(s)

MATCWQALWAYRSYLIVFFVPIILLPLILVPSKVAVEYLKDSNLLFFGGLLVIAIEVHWNLHKRIALRV
 LLIVGVRPAPLILGFMLVTAFLSMWISNTATSAMMVPIAHAVLDQLHSSQASSNVEEGSNPTFELQEPS
 PQKEVTKLDNGQALPVTSASSEGRAHLSQKHLHLTQCMSLCVCYSASIGGIATLTGTAPNLVLQGGQINSL
 FPQNGNVNFAWFSFAFPTMVIILLWLLWLQILFLGFNFRKNFGIGEKMQEQQAAYCVIQTEHRLLG
 PMTFAEKAISILFVILVLLWFTREPGFFLWGNLAFPNAGESMVS DGTVAIFIGIIMFIIIPSKFPLGTQ
 DPENPGKLGKAPLGLLDWKTVNQMPWNI VLLGGGYALAKGSERSGLSEWLG NKL TPLQSVPAIAIIL
 SLLVATFTECTSNVATTTIFLPILASMAQAICLHPLYVMLPCTLATSLAFMLPVATPPNAIVFSFGDLKV
 LDMARAGFLLNIIGVLI IALAINSWG IPLFSLHSFSPSWAQSNTTAQCLPSLANTTTTSP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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 Size: 2255 bp

RefSeq ORF: 1649 bp

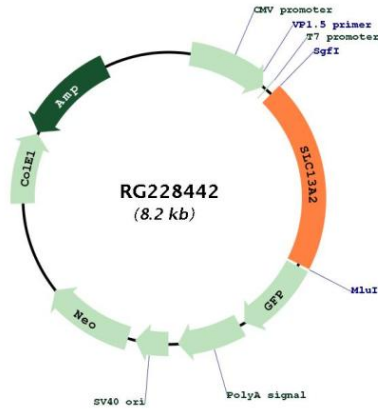
Locus ID: 9058

Cytogenetics: 17q11.2

Protein Families: Transmembrane

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 RG228442