

## Product datasheet for **RG214998**

### SLC13A2 (NM\_003984) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC13A2 (NM_003984) 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)



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**ORF Nucleotide Sequence:**

>RG214998 representing NM\_003984  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCACCTGCTGGCAGGCCCTGTGGCCTATCGCTCCTACCTGATCGTGTCTTCGTCGCCATTCTCC  
 TGCTGCCTCTGCCATCCTCGTCCCAAGTAAGGAGGCCTACTGCGGTATGCCATCATCCTCATGGCGCT  
 CTTCTGGTGCCTGAGGCCCTGCCCTGGCCGTAAGTGCCTCTTCCCTTAATCCTGTTCCCTATGATG  
 GGCATCGTGGATGCCTCTGAGGTTGCCGTGAGTATCTTAAGGACTCCAACCTCCTGTTCTTCGGGGGGC  
 TGCTGGTGGCCATCGCGGTGGAACACTGGAACCTGCATAAACGCATCGCCCTCCGTGCTCCTCATCGT  
 TGGGGTGGCCCTGCCCGCTAATCCTGGGCTTTCATGCTGGTACGCGCTTCTGTCCATGTGGATCAGC  
 AACACGGCCACCTCAGCCATGATGGTGGCCATCGCACATGCCGTCTGGACCAGTGCACAGCTCGCAAG  
 CCAGCAGCAACGTCGAGGAGGGCAGCAACAACCCACCTTCGAGCTCCAGGAACCAAGTCCCCAGAAGGA  
 GGTGACCAAGCTTGATAATGGGCAGGCCCTCCCTGTCAGTCTGCCTCTTCGGAGGGGAGGGCACATCTC  
 AGCCAGAAGCATCTCACCTCACCCAGTGCATGAGCCTGTGCGTGTGCTACTCCGCCAGCATCGGGGGCA  
 TCGCCACGCTGACTGGCACCCGACCCAACTGGTGTGCAAGGCCAGATCAACTCGCTCTTCCCCAAAA  
 CGGCAACGTGGTGAACCTCGCCTCCTGGTTCAGCTTCGCCTTCCCACCATGGTCACTTGTCTGCTGCTG  
 GCCTGGTGTGGCTGCAGATCCTCTTCTGGGCTTCAACTCCGGAAGAACTTTGGCATTGGGAAAAAGA  
 TGCAGGAGCAACAGCAGGCAGCCTACTGCGTCATCCAGACCGAGCACAGGCTGCTGGGCCCATGACCTT  
 TTTCTTGGCTGGGCAATTTGGCTTTCCCAATGCCAAGGGGGAGAGCATGGTGTCCGATGGGACAGTGG  
 CCATCTTCATCGCATAATTATGTTTCATACATACCTCCAAGTCCAGGGCTGACCCAGGCCAGAAAA  
 CCCAGGGAAGCTGAAGGCCCTCTTGGCTCCTCGACTGGAAGACGGTGAACCAGAAGATGCCGTGGAAT  
 ATCGTGTATTGCTGGTGGTGGCTATGCCCTGGCCAAGGCAAGTGAAGGATCGGGCCTGTGAGAGTGGC  
 TGGGAAACAAGCTGACCCACTGCAGAGTGTGCCAGCTCCAGCCATTGCCATCATCCTCTCCCTCCTGGT  
 GGCCACCTTACCAGTGCCTAGCAACGTGGCCACCCTACGATCTTCTGCCATCCTAGCCTCCATG  
 GCCAGGCCATCTGCCTCACCTCTCTACGTATGCTCCCTGCACTCTGGCCACCTCCCTGGCCTTCA  
 TGTTGCCTGTGGCCACCCGCCAATGCCATCGTCTTCTTTCGGGGACCTCAAAGTGTGGATATGGC  
 CCGGGCAGGATTCCTCCTCAACATATTGGAGTCTGATCATCGCACTGGCCATCAACAGCTGGGGCATC  
 CCCCTCTCAGCCTGCACTCTTCCCTCCTGGGCACAGTCCAACACCACAGCCAGTGCCTGCCAAGCC  
 TGCCAACACCACACCAAGCCCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG214998 representing NM\_003984  
 Red=Cloning site Green=Tags(s)

MATCWQALWAYRSYLIVFFVPIILLPLPILVPSKEAYCAYAIILMALFWCTEALPLAVTALFPLILFPM  
 GIVDASEVAVEYLKDSNLLFFGGLLVIAIEHWNLHKRIALRVLLIVGVRPAPLILGFMLVTAFLSMWIS  
 NTATSAMMVPPIAHAVLDQLHSSQASSNVEEGSNPTFELQEPSPQKEVTKLDNGQALPVTSASSEGRAHL  
 SQKHLHLTQCMSLCVCYSASIGGIATLTGTAPNLVLQGINSLFPQNGNVNFAWFSFAFPTMVI  
 AWLWLQILFLGFNFRKNFGIGEKMQEQQAAYCVIQTEHRLGPMTEFAEKASILFVILVLLWFTREPGF  
 FLGWGNLAFPNAGKESMVSVDGTVAFIFIGIIMFIIPSKFPLTQDPENPGKLPKAPLGLLDWKT  
 VNVQKMPWNIVLLLGGGYALAKGSERSGLSEWLGKLTPLQSVPAIAIILSLLVATFTECTSNVATTTIFL  
 PILASMAQAIICLHPLYVMLPCTLATSLAFMLPVATPPNAIVFSFGDLKVLDMARAGFLLNIIGVLI  
 IALAINSWGILPLFSLHSFSPWAQSNNTAQCLPSLANTTTPSP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_003984

**ORF Size:** 1776 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\\_003984.4](#)

**RefSeq Size:** 1953 bp

**RefSeq ORF:** 1779 bp

**Locus ID:** 9058

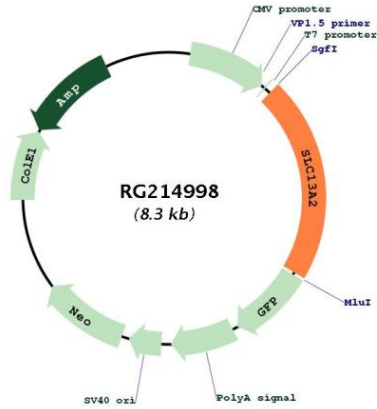
**UniProt ID:** [Q13183](#)

**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 RG214998