

## Product datasheet for **MG223001**

### **Slc34a3 (NM\_080854) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc34a3 (NM_080854) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc34a3
Synonyms:	AI649385; naPi-2c; Npt2c; Npt2c-v1; NptIIc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG223001 representing NM\_080854  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCGAATTCCTCGCCGGTGGCCAGGTCCTCAACCCTACTCTGGATGCCTTTGACCTGGTGGACCGGA  
 GTCTGAGAAATGCAGGAATCTCCGGTCCATTCCAGGCTTGAAGAGGGAGGTACAGATCCCTGGACCTT  
 CTCTCCGCTGAAGAACGCTGACCAACTGAAAGAGGTTGGCATGGCCAGCAGGCTTCGCCGGTGGTCCAGC  
 AGCTTTCTCAAGGCATGTGGACTCTGGGAAGCCTCTACTTTTTTCATCTGCTCCCTGGACATCTCAGCT  
 CTGCTTTCCAGCTACTAGGCAGCAAAAATGGCTGGAGACATTTTCAAGGACAATGTGGTGTGTCCAACCC  
 TGTGGCGGGCTTGGTCATTGGTGTGTGGTCCAGTCTTGTCCAGAGCTCCAGCACATCTTCTCTATC  
 GTGGTCCAGCATGGTGGCCTCTAAGTTGCTGACTGTCCAGGTGTCTGTGCCTATCATATGGGCGTCAATG  
 TGGTACTTCGATCACCAGCACCTGGTCTCAATGGCGCAGTCAGGGACCGGGATGAATTCAGAGGGC  
 CTTAGCGGGCTCGCCGTGCATGGCATCTCAACTGGCTCACAGTATTGGTATTGCTGCCCTGGAGAGT  
 GCCACCGCAGCATTAGAGAGACTGAGTGAAGTGGCCCTGGGTGTCTAGCCTGCAGCCAGGGCAGCAGG  
 CCCCCGACATCTCAAGGCACTGACTCGGCCTTTCACACACCTCATCATCCAGCTGGATAGCAGTGTGAT  
 AACCAGCGGTATTACCAGCAACACCACTAACAGCAGCCTGATTAAGCATTGGTGTGGCTTCAGGGGGAG  
 ACGCCCCAGGGAAGCAGTGAGGGATGTGGCCTCTTCAGCTCTGCACAGAGAGGAACAGCTCAGCATCTC  
 CAGAGGAGGACAGATTGCTCTGCCATCACCTGTTTGGCGGCTCAAACCTCACAGACTGGCTGTGGGCTT  
 CATCCTGCTGGCGGGCTCGTCTGGTGTCTGTGTCTGTCTGGTCTCATCGTTAAACTGCTCAACTCT  
 GTGTTGAAGGGCCGCATCGCACAGGCTGGAAGACTGTTATCAATGCAGATTTCCCTCCCTTTGGCT  
 GGCTCAGCGGCTACTTGGCTATCCTCGTTGGCGCAGGCCTAACCTTCTTGCTTCAGAGCAGTGTGTCTT  
 CACAGCAGCCATCGTGCCTCTCATGGGGTGGGGTATTGACCTGGAACGGGCCCTACCCCTCTCTTG  
 GGTCCAACATCGGCACCACCACACAGCCCTGCTGGCTGCCTTAGCCAGCCCTGCAGACATGTTAATCT  
 TCGCAGTTCAGTTGCTCTCATCCACTTCTTCAACCTGGCTGGCATACTGCTGTGGTACCTGGTGGC  
 TGTCTTGAGACTGCCAATCCACTGGCCAAGCGCTTGGAAACCTGACTGCCAGTATCGCTGGTGGCC  
 ATTGTCTACCTACTATTAACCTTCTGCTGCTACCCTAGCAGCCTTGGACTTTCCTGGCAGGGGGCA  
 CAGTGTGGTGCAGTAGGGGCTCTGGTGGGGCTGGTGTCTTATCATCTGGTTAATGCTCTGCA  
 ACAACCCGACCATTGGCTGCCCGCTGTCTCAATCTGGGCTGGTGGCCTCTGGCTCCATTCT  
 CTGGAGCCCTGGACCGCTGGTACTGCTTGTGCCCTGCAGGGCCTGCAGCAACTCTCTATGACCA  
 GCAAAGTGGCTACTGCTATGAGAACCACAAGTCATAGCTTCTCAGCAGTTG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG223001 representing NM\_080854  
 Red=Cloning site Green=Tags(s)

MPNSLAGGQVPNPTLDAFDLVDRSLRNAGISGSIPGLEEGGTDPTWTF SPLKNADQLKEVGMASRLRRVVS  
 SFLKACGLLGSLYFFICSLDILSSAFQLLGSKMAGDIFKDNVVL SNPVAGLVIGVLTVLVQSSSTSSSI  
 VVSMVASKLLTVQVSVPIIMGVNVTGTSITSTLVSMAQSGDRDEFQRAFSGSAVHGIFNWLTVLVLLPLES  
 ATAALERLSELALGAASLQPGQAPDILKALTRPFTHLIIQLDSSVITSGITSNTTNSL IKHWCGFRGE  
 TPQGSSEGCGLFSSCTERNSSASPEEDRLLCHHLFAGSKLTDLAVGFILLAGSLLVLCVCLVLIVKLLNS  
 VLKGRIAQAVKTVINADFPFPFGLWLSGYLAILVGAGLTFLLQSSSVFTAAIVPLMGVGVIDLERAYPLFL  
 GSNIGTTTTALLAALASPADMLIFAVQVALIHFFFNLAGILLWYLVPLRLPIPLAKRFGNLT AQYRWVA  
 IYVLLTFLLLPLAAFGLSLAGGTVLAAVGGPLVGLVLLIILVNVLQQHRPSWLPRCLQSWAWLPLWLHS  
 LEPWDRVTACPCRACNSPMTSKVAHCYENPQVIASQQL

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_080854

ORF Size: 2051 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\\_080854.3](#), [NP\\_543130.2](#)

RefSeq ORF: 1806 bp

Locus ID: 142681

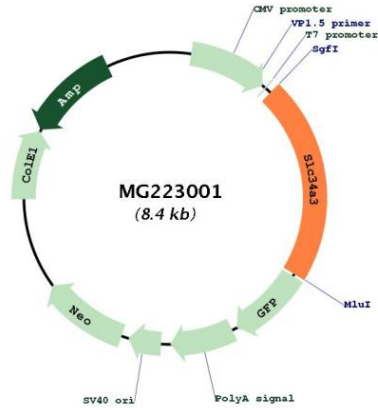
UniProt ID: [Q80SU6](#)

Cytogenetics: 2 A3

**Gene Summary:**

May be involved in actively transporting phosphate into cells via Na(+) cotransport in the renal brush border membrane. Probably mediates 20-30% of the apical influx.  
 [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG223001