

## Product datasheet for **MG210105**

### Slc34a2 (NM\_011402) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc34a2 (NM_011402) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc34a2
Synonyms:	AA536683; D5Ertd227e; NaPi-2b; Npt2b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG210105 representing NM\_011402  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCTCCTTGGCCCCAGTTGAAAAATGCCAGCCCAACCCCGTAAATTCATCGAGGGGCTCTGGAC  
 CACAATCGAGCATACCTGCCAAAGACAAGGAGGCCAGCAAAACAATGACAACGGGACTCCTGTAGCCAA  
 GACTGAACTGCTACCCTCCTATTCCGCCCTGGTTCTCATAGAGGAGCATCCCAGGGGACGGACCCCTGG  
 GACCTGCCTGAACTCCAGGACACTGGGATCAAATGGTCAGAGAGAGACACCAAAGGGAAGACGCTGTGCA  
 TTTTCCAGGGGGTTGGGAAGTTCACTTCTCCTGGGGTTTCTCTACTTGTTCGTGTGCTCCCTGGATGT  
 ACTGAGCAGCGCCTTCCAGCTTGTGGAGGCAAAGTGGCCGGACAGTTCTTCAGCAACAACCTCCATCATG  
 TCTAATCCTGTGGCTGGACTGGTATAGGGGTTCTGGTGACAGTCATGGTTCAAAGCTCCAGCACCTCTT  
 CCTCCATCATCGTCAGCATGGTTGCTTCTTCATTGCTGACGGTTCGGGCTGCCATCCCCATCATATGGG  
 CGTAACATTGGAACCTCCATCACCAACACGATCGTGGCGTTATGCAGGCAGGAGACAGAAATGAGTTC  
 AGAAGGGCATTTCAGAGGACCCTGTTTCATGACTTCTTCAAAGCTCTCTGTGTTCGTGCTCTTGCCCTC  
 TGGAGGCTGCCACCCATTACCTGGAGATCCTGACCAACCTTGTGTTAGAAACCTTCAAGTTCAGAAATGG  
 AGAAGATGCCCCAGACATTCTGAAAGTCATCACAGACCCCTTCAAAAGCTCATCATCCAGCTGGATAAA  
 AAGGTCATCCAACAAATCGCAATGGGTGACTCAGCGGCCCAGAACAAGAGCCTGATCAAGATCTGGTGTA  
 AAAGTATAACCAATGTGACTGAGATGAATGTCACCGTCCCCTCGACTGATAACTGCACCTCTCCTTCATA  
 TTGCTGGACTGATGGCATAACAGACCTGGACCATCCAGAAGCTTACCCAAAAGGAGAACATTGCTAAATGT  
 CAGCACATCTTCGTGAATTCAGTCTCCAGACCTTGTGTGGGCATCATCTTGCTTACTGTCTCCCTGG  
 TGGTCTCTGTGGCTGTCTGATCATGATAGTCAAGCTGTTGGTTCTGTGCTCAGGGGACAAGTCGCTAC  
 TGCATCAAGAAGACCCTGAATACTGATTTCCCTTTCCCTTTGCTTGGCTGACTGGCTACCTGGCCATC  
 CTGTGGGGCAGGCATGACCTTCATCGTGCAAAGCAGCTCTGTGTTACGTCTGCCATGACTCCACTCA  
 TCGGTATTGGGGTATCAGCATTGAGAGGGCATAATCCACTCACGTTGGGCTCCAACATTGGCACCACCAC  
 CACCGCCATTCTGGCTGCTTTAGCCAGCCAGGCAACACCTTGAGGAGTTCTCTCCAGATTGCCCTGTGC  
 CATTCTCTTCAACATCTCTGGAATATTGCTTTGGTACCCAATCCCATTACCCGCTGCCCCATCCGTC  
 TGGCTAAAGGCCTAGGCAACATCTCTGCCAAGTATCGCTGGTTCGCAGTCTTCTATCTCATCTTCTTCTT  
 CTTTGTGACCCCGCTGACAGTGTGGCCGTCTCTGGCAGGCTGGCCAGTGTGGTGGGCGTGGGCGTA  
 CCCATCATCTGTGCTGCTCCTGGTTCTGTGCCCTCCGATGCTGCAGTTCGGCTGCCCTCGCATCTTGC  
 CCCTGAAGCTCCGGGACTGGAATTTCTACCCTTGTGGATGCACTCTCTGAAACCCTGGGACAACGTCAT  
 CTCCCTGGCCACCACCTGCTTCCAGAGGCGTTGCTGCTGCTGTTGCCGCTGTGCTGCCGTGCTGCTGC  
 ATGGTGTGCGGCTGCAAGTGTGTGCTGCAGCAAGTGTGCAGGGACCAGGGAGAGGAAGAGGAGGAGA  
 AGGAGCAGGATATCCCGTCAAGGCTTCTGGGGCCTTTGACAAATGCAGCTATGAGCAAAGAGTGCCAAGA  
 TGAGGGCAAGGGCCAAGTGAAGTTCTGAGCATGAAGGCCCTGTCCAACACTACAGTGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210105 representing NM\_011402  
 Red=Cloning site Green=Tags(s)

MAPWPELENAQPNPGKFI EGASGPQSSIPAKDKEASKTNDNGTPVAKTELLPSYSALVLEIEHPEGTDPW  
 DLPELQDTGIKWSERDTKGKTL CIFQGVGKFI LLLGFLYLFVCSLDVLSAFQLVGGKVAGQFFSNN SIM  
 SNPVAGLVIGVLVTVMVQSSSTSSIIIVSMVASSLLTVRAAIIIMGANIGTSITNTIVALMQAGDRNEF  
 RRAFAGATVHDFFNWLSV FVLLPLEAATHYLEILTNLVLETFFKQNGEDAPDILKVIITDPFTKLIQLDK  
 KVIQQIAMGDSAAQNKSLIKIWCKSITNVTEMNVTVPSTDNCTSPSYCWT DGIQTWTIQNVTKENIACK  
 QHIFVNFSLPDLAVGIILLTVSLVVL CGCLIMIVKLLGSLVLRGQVATVIKKT LNTDFPFPAWLTGYLAI  
 LVGAGMTFIVQSSSVFTSAMTPLIGIGVISIERAYPLTLGSGNIGTTTTAILAALASPGNLT RSSLQIALC  
 HFFFNISGILLWYPIPFTRLPIRLAKGLGNISAKYRWFV FYLIFFFVTPLVFGLSLAGWPVLVGVGV  
 PIILLLLLVLCRMLQFRCPRILPLKLRDWNFLPLWMHSLKPWDNVI SLATTCFQRRC CCCCRCRVCCRVCC  
 M VCGCKCCRC SKCCRDQGE EEEEEKEQDIPVKASGAFD NAAMSKECQDEGKGQVEVLSMKALSNTTVF

TRTRPLE - GFP Tag - V

Restriction Sites:

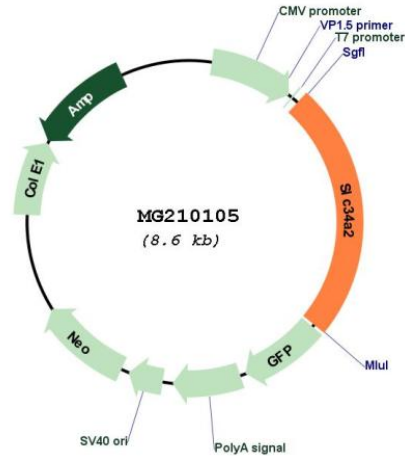
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_011402

ORF Size: 2091 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\\_011402.3](#), [NP\\_035532.2](#)

RefSeq Size: 4185 bp

RefSeq ORF: 2094 bp

Locus ID: 20531

UniProt ID: [Q9DBP0](#)

Cytogenetics: 5 28.92 cM

**Gene Summary:** May be involved in actively transporting phosphate into cells via Na(+) cotransport. It may be the main phosphate transport protein in the intestinal brush border membrane. May have a role in the synthesis of surfactant in lungs' alveoli.[UniProtKB/Swiss-Prot Function]