

## Product datasheet for **RG234659**

### SLC20A2 (NM\_001257180) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | SLC20A2 (NM_001257180) Human Tagged ORF Clone                       |
| Tag:                      | TurboGFP  |
| Symbol:                   | SLC20A2   |
| Synonyms:                 | GLVR-2; GLVR2; IBGC1; IBGC2; IBGC3; MLVAR; PIT-2; PIT2; Ram-1; RAM1 |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |



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**ORF Nucleotide Sequence:**

>RG234659 representing NM\_001257180  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCCATGGATGAGATTTGTGGATGGTCATTTTGGTTTCATCATAGCTTTTCATCTTGGCCTTTTCTG  
 TTGGTGCAAACGATGTTGCCAACTCTTTGGTACAGCCGTGGGCTCTGGTGTGGTACCTTGAGGCAGGC  
 ATGCATTTTAGCTTCAATATTTGAAACCACCGCTCCGTGTTACTAGCGCCAAAGTAGGAGAAACCATT  
 CGCAAAGGTATCATTGACGTGAACCTGTACAACGAGACGGTGGAGACTCTCATGGCTGGGAAAGTTAGTG  
 CCATGGTTGGTCCGCTGTGTGGCAGCTGATTGCTTCTCTGAGGCTTCCAATCTCAGGAACGCACTG  
 CATTGTGGTTCTACTATAGGATTCTCACTGGTCGCAATCGGTACCAAAGGTGTGCAGTGGATGGAGCTT  
 GTCAAGATTGTTGCTTCTGGTTTATATCTCCACTGTTGTCTGGTTTCATGTCTGGCCTGCTGTTGTAC  
 TCATCAGAATTTTCATCTTAAAAAGGAAGACCCTGTTCCAATGGCCTCCGGGCACTCCAGTATTCTA  
 TGCTGCTACCATAGCAATCAATGCTTTTCCATCATGTACACAGGAGCACCAGTGTCTGGCCTTGTCTC  
 CCCATGTGGGCCATAGCCCTCATTTCCTTTGGTGTGCGCCCTCTGTTTCGCTTTTTTGTGTGGCTCTTCG  
 TGTGTCCGTGGATGCGGAGGAAAATAACAGGCAAATTACAAAAAGAAAGGTGCTTTATCACAGTATCTGA  
 CGAAAGCCTCAGTAAGGTTCAGGAAGCAGAGTCCCCAGTATTTAAAGAGCTACCAGGTGCCAAGGCTAAT  
 GATGACAGCACCATCCCCTCACGGGAGCAGCAGGGGAGACACTGGGGACCTCGGAAGGCACTTCTGCGG  
 GCAGCCACCCTCGGGCTGCATACGGAAGAGCACTGTCCATGACCCATGGCTCTGTGAAATCGCCCATCTC  
 CAACGGCACCTTCGGCTTCGACGGCCACACCAGGAGCGACGGTATGTGTACCACACCGTGCACAAAAGAC  
 TCGGGGCTCTACAAGATCTGCTGCACAAAATCCACATCGACAGGGGCCCCGAGGAGAAGCCAGCCGAGC  
 AAAGCAACTACCGGCTGCTGCGCCGAAACAACAGTTACACCTGCTACACCGCAGCCATTTGTGGCTGCC  
 AGTGCACGCCACCTTTCGAGCTGCGGACTCATCGGCCCCAGAGGACAGTGAAGAAGCTGGTGGGCGACACC  
 GTGTCCTACTCCAAGAAGAGGCTGCGCTACGACAGCTACTCGAGCTACTGTAACGCGGTGGCAGAGGCGG  
 AGATCGAGGCGGAGGAGGCGCGGTGGAGATGAAGCTGGCGTGGAGCTGGCCGACCCTGACCAGCCGCG  
 AGAGGACCCTGCAGAGGAGGAGAAGGAGGAGAAGGACGCACCCGAGGTTACCTCCTGTTCCATTTCTG  
 CAGGCTCTCACCGCTGTTTCGGGCTCTTGTCTCACGGCGCAATGACGTGAGTAAATGCCATCGGTCCCC  
 TGGTAGCCTTGTGGCTGATTTACAACAAGGCGGGGTAACGCAAGAAGCAGCTACACCCGCTGGCTGCT  
 GTTTTATGGAGGAGTTGGAATCTGCACAGGCTCTGGGCTGGGGGAGAAGAGTATCCAGACCATGGG  
 AAGGACCTCACTCCCATCAGCCGTCACGGGCTTACGATCGAGCTGGCCTCAGCCTTACAGTGGTGA  
 TCGCCTCAACATCGGGCTTCCAGTCAACAGCAGCACTGAAGGTGGGCTCGGTGGTGGCCGTGGGCTG  
 GATCCGCTCCCGCAAGGCTGTGGACTGGCGCTCTTTCGGAACATCTTCGTGGCCTGGTTCGTGACCGTC  
 CCTGTGGCTGGGCTGTTCAAGCGCTGCTGTATGGCTCTTCTCATGTATGGGATCCTTCCATATGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234659 representing NM\_001257180  
 Red=Cloning site Green=Tags(s)

MAMDEYLWMVILGFIIAFILAFSVGANDVANSFGTAVGSGVVTLRQACILASIFETTGSVLLGAKVGETI  
 RKGIIDVNLVNETVETLMAGEVSAMVGSVAVWQLIASFLRPLISGTHCIVGSTIGFSLVAIGTKGVQWML  
 VKIVASWFI SPLLSGFMSGLLFLVLRIRIFILKKEDPVPNGLRALPVFYAATIAINVFSIMYTGAPVGLVL  
 PMWAIALISFGVALLFAFFVWLVCPWMRRKITGKLQKEGALSRVDESLSKVQEAESPVKELPGAKAN  
 DDSTIPLTGAAGETLGTSEGSAGSHPRAAAYGRALSMTHGSVKSPISNGTFGFDGHRSDGHVYHTVHKD  
 SGLYKDLLHKIHIHIDRGPEEKPAQESNYRLLRRNNSYTCYTAACICGLPVHATFRAADSSAPEDSEKLVGDT  
 VSYSKRLRYDSYSSYCNAAVAEAEIEAEEGGVEMKLAELADPDQPREPAEEEEKEKDAPEVHLLFHL  
 QVLTACFGSFAHGGNDVSNIGPLVALWLIYKQGGVTQEAAATPVWLLFYGGVGICTGLWWGRRVIQTMG  
 KDLTPITPSSGFTIELASAFTVVIASNIGLPVSTTHCKVGSVAVGWIRSRKAVDWRLFRNIFVAWFVTV  
 PVAGLFSAAVMALLMYGILPYV

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_001257180

ORF Size: 1956 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\\_001257180.2](#)

RefSeq Size: 4008 bp

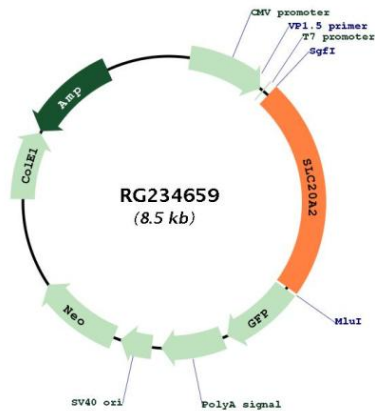
RefSeq ORF: 1959 bp

Locus ID: 6575

UniProt ID: [Q08357](#)

|                          |  |
|--------------------------|--|
| <b>Cytogenetics:</b>     | 8p11.21  |
| <b>Protein Families:</b> | Druggable Genome, Transmembrane  |
| <b>Gene Summary:</b>     | This gene encodes a member of the inorganic phosphate transporter family. The encoded protein is a type 3 sodium-dependent phosphate symporter that plays an important role in phosphate homeostasis by mediating cellular phosphate uptake. The encoded protein also confers susceptibility to viral infection as a gamma-retroviral receptor. Mutations in this gene may play a role in familial idiopathic basal ganglia calcification. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012] |

### Product images:



Circular map for RG234659