

## Product datasheet for **RC234659**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC20A2 (NM_001257180) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC20A2
Synonyms:	GLVR-2; GLVR2; IBGC1; IBGC2; IBGC3; MLVAR; PIT-2; PIT2; Ram-1; RAM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC234659 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCCATGGATGAGATTTGTGGATGGTCATTTTGGGTTTCATCATAGCTTTTCATCTTGGCCTTTTCTG  
TTGGTGCAAACGATGTTGCCAACTCCTTTGGTACAGCCGTGGGCTCTGGTGTGGTACCTTGAGGCAGGC  
ATGCATTTTAGCTTCAATATTTGAAACCACCGGCTCCGTGTTACTAGCGCCAAAGTAGGAGAAACCATT  
CGCAAAGGTATCATTGACGTGAACCTGTACAACGAGACGGTGGAGACTCTCATGGCTGGGAAGTTAGTG  
CCATGGTTGGTCCGCTGTGTGGCAGCTGATTGCTTCTCTGAGGCTTCCAATCTCAGGAACGCACTG  
CATTGTGGGTTCTACTATAGGATTCTCACTGGTCGCAATCGGTACCAAAGGTGTGCAGTGGATGGAGCTT  
GTCAAGATTGTTGCTTCTGGTTTATATCTCCACTGTTGTCTGGTTTCATGTCTGGCCTGCTGTTTGTAC  
TCATCAGAATTTTCATCTTAAAAAGGAAGACCCTGTTCCAATGGCCTCCGGGCACTCCAGTATTCTA  
TGCTGCTACCATAGCAATCAATGCTTTTCCATCATGTACACAGGAGCACCAGTGTCTGGCCTTGTCTC  
CCCATGTGGGCCATAGCCCTCATTTCCTTTGGTGTGCGCCCTCTGTTTCGCTTTTTTGTGTGGCTCTTCG  
TGTGTCCGTGGATGCGGAGGAAAATAACAGGCAAATTACAAAAAGAAGGTGCTTTATCACAGTATCTGA  
CGAAAGCCTCAGTAAGGTTCAGGAAGCAGAGTCCCCAGTATTTAAAGAGCTACCAGGTGCCAAGGCTAAT  
GATGACAGCACCATCCCGCTCACGGGAGCAGCAGGGGAGACACTGGGGACCTCGGAAGGCACTTCTGCGG  
GCAGCCACCCTCGGGCTGCATACGGAAGAGCACTGTCCATGACCCATGGCTCTGTGAAATCGCCCATCTC  
CAACGGCACCTTCGGCTTCGACGGCCACACCAGGAGCGACGGTCAATGTGTACCACACCGTGCACAAAGAC  
TCGGGGCTCTACAAAGATCTGCTGCACAAAATCCACATCGACAGGGGCCCCGAGGAGAAGCCAGCCAGG  
AAAGCAACTACCGGCTGCTGCGCCGAAACAACAGTTACACCTGCTACACCGCAGCCATTTGTGGGCTGCC  
AGTGACAGCCACCTTTCGAGCTGCGGACTCATCGGCCCCAGAGGACAGTGAGAAGCTGGTGGGCGACACC  
GTGTCCTACTCCAAGAAGAGGCTGCGCTACGACAGCTACTCGAGCTACTGTAACGCGGTGGCAGAGGCGG  
AGATCGAGGCGGAGGAGGCGCGGTGGAGATGAAGCTGGCGTCCGAGCTGGCCGACCCTGACCAGCCGCG  
AGAGGACCCTGCAGAGGAGGAGAAGGAGGAGAAGGACGCACCCGAGGTTACCTCCTGTTCCATTTCTG  
CAGGTCCTCACCGCCTGTTTCGGGTCCTTTGCTCACGGCGGCAATGACGTGAGTAATGCCATCGGTCCTC  
TGGTAGCCTTGTGGCTGATTTACAAACAAGGCGGGTAACGCAAGAAGCAGCTACACCCGCTGCGCTGCT  
GTTTTATGGAGGAGTTGGAATCTGCACAGGCTCTGGGCTGCGGGGAGAAGAGTATCCAGACCATGGG  
AAGGACCTCACTCCCATCAGCCGTCAGCGGCTTACAGATCGAGCTGGCCTCAGCCTTACAGTGGTGA  
TCGCCTCCAACATCGGGCTTCCAGTCAACAGCAGCACTGAAGGTGGGCTCGGTGGTGGCCGTGGGCTG  
GATCCGCTCCCGCAAGGCTGTGGACTGGCGCTCTTTCGGAACATCTTCGTGGCCTGGTTCGTGACCGTC  
CCTGTGGCTGGGCTGTTGAGCGCTGCTGTATGGCTCTTCTCATGTATGGGATCCTTCCATATGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234659 protein sequence  
Red=Cloning site Green=Tags(s)

MAMDEYLMWVILGFIIAFILAFSVGANDVANSFGTAVGSGVVTLRQACILASIFETTGSVLLGAKVGETI  
 RKGIIIDVNLVNETVETLMAGEVSAMVGSVAWQLIASFLRLPISGTHCIVGSTIGFSLVAIGTKGVQWML  
 VKIVASWFISPLLSGFMSGLLFLVLRIRIFILKKEDPVPNGLRALPVFYAATIAINVFSIMYTGAPVGLVL  
 PMWAIALISFGVALLFAFFVWLFVCPWMRRKITGKLQKEGALSRVSDLSKVVQEAESPVKELPGAKAN  
 DDSTIPLTGAAGETLGTSEGTSAGSHPRAYGRALSMTHGSVKSPISNGTFGFDGHTRSRGHVYHTVHKD  
 SGLYKDLLLHKIHDGRPEEKPAQESNYRLLRRNNSYTCYAAICGLPVHATFRAADSSAPEDSEKLVGDT  
 VSYSKRRLRYDSYSSYCNAAVAEAEIEAEEGGVEMKLAELADPDQPREDPAAEEKEEKDAPEVHLLFHFL  
 QVLTACFGSAHGGNDVSNIGPLVALWLIYKQGGVTQEATPVWLLFYGGVGICTGLWVWGRRIQTMG  
 KDLTPITSSGFTIELASAFTVVIASNIGLPVSTTHCKVGSVVAVGWIRSRKAVDWRLFRNIFVAWFVTV  
 PVAGLFSAAVMALLMYGILPYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6072\\_h11.zip](https://cdn.origene.com/chromatograms/mk6072_h11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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](#)

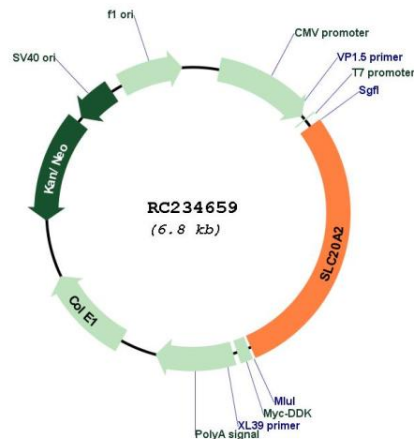
**Cytogenetics:** 8p11.21

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 70.4 kDa

**Gene Summary:** 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 RC234659