

Product datasheet for **RC234660**

SLC20A2 (NM_001257181) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC20A2 (NM_001257181) 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)



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ORF Nucleotide
Sequence:

>RC234660 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCATGGATGAGTATTTGTGGATGGTCATTTTGGGTTTCATCATAGCTTTTCATCTTGGCCTTTTCTG
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CCTGTGGCTGGGCTGTTCAAGCTGCTGTATGGCTCTTCTCATGTATGGGATCCTTCCATATGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC234660 protein sequence
Red=Cloning site Green=Tags(s)

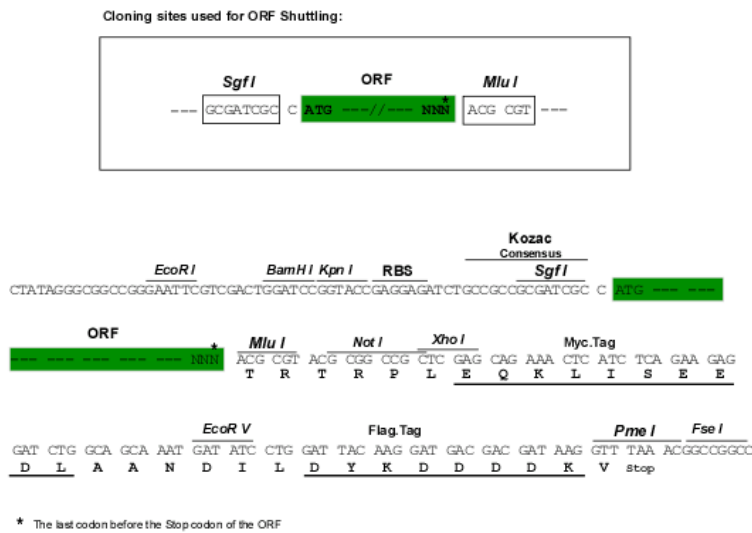
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 VSYSKRLRYDSYSSYCNAAVAEAEIEAEEGGVEMKLAELADPDQPREDPAAEEKEEKDAPEVHLLFHFL
 QVLTACFGSAHGGNDVSNIGPLVALWLIYKQGGVTQEATPVWLLFYGGVGICTGLWVWGRRIQTMG
 KDLTPITPSSGFTIELASAFTVVIASNIGLPVSTTHCKVGSVVAVGWIRSRKAVDWRLFRNIFVAWFVTV
 PVAGLFSAAVMALLMYGILPYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6072_h11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001257181

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_001257181.1](#), [NP_001244110.1](#)

RefSeq Size: 3639 bp

RefSeq ORF: 1959 bp

Locus ID: 6575

UniProt ID: [Q08357](#)

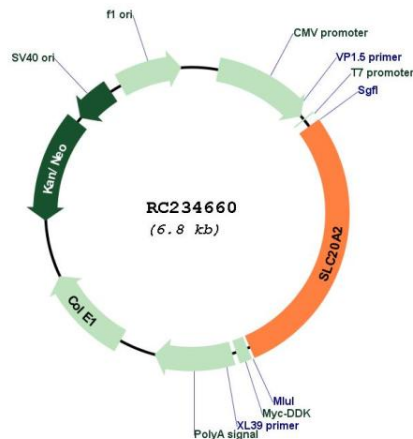
Cytogenetics: 8p11.21

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 RC234660