

Product datasheet for **RG234660**

SLC20A2 (NM_001257181) Human Tagged ORF Clone

Product data:

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

>RG234660 representing NM_001257181
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCATGGATGAGATTTGTGGATGGTCATTTTGGTTTCATCATAGCTTTTCATCTTGGCCTTTTCTG
 TTGGTGCAAACGATGTTGCCAACTCTTTGGTACAGCCGTGGGCTCTGGTGTGGTACCTTGAGGCAGGC
 ATGCATTTTAGCTTCAATATTTGAAACCACCGCTCCGTGTTACTAGCGCCAAAGTAGGAGAAACCATT
 CGCAAAGGTATCATTGACGTGAACCTGTACAACGAGACGGTGGAGACTCTCATGGCTGGGAAAGTTAGTG
 CCATGGTTGGTCCGCTGTGTGGCAGCTGATTGCTTCTCTGAGGCTTCCAATCTCAGGAACGCACTG
 CATTGTGGTTCTACTATAGGATTCTCACTGGTCGCAATCGGTACCAAAGGTGTGCAGTGGATGGAGCTT
 GTCAAGATTGTTGCTTCTGGTTTATATCTCCACTGTTGTCTGGTTTCATGTCTGGCCTGCTGTTGTAC
 TCATCAGAATTTTCATCTTAAAAAGGAAGACCCTGTTCCAATGGCCTCCGGGCACTCCAGTATTCTA
 TGCTGCTACCATAGCAATCAATGCTTTTCCATCATGTACACAGGAGCACCAGTGTCTGGCCTTGTCTC
 CCCATGTGGGCCATAGCCCTCATTTCCTTTGGTGTGCGCCCTCTGTTTCGCTTTTTTTGTGTGGCTTTCG
 TGTGTCCGTGGATGCGGAGGAAAATAACAGGCAAATTACAAAAAGAGGTGCTTTATCACAGTATCTGA
 CGAAAGCCTCAGTAAGGTTCAGGAAGCAGAGTCCCCAGTATTTAAAGAGCTACCAGGTGCCAAGGCTAAT
 GATGACAGCACCATCCCGCTCACGGGAGCAGCAGGGGAGACACTGGGGACCTCGGAAGGCACTTCTGCGG
 GCAGCCACCCTCGGGCTGCATACGGAAGAGCACTGTCCATGACCCATGGCTCTGTGAAATCGCCCATCTC
 CAACGGCACCTTCGGCTTCGACGGCCACACCAGGAGCGACGGTATGTGTACCACACCGTGCACAAAAGAC
 TCGGGGCTCTACAAGATCTGCTGCACAAAATCCACATCGACAGGGGCCCCGAGGAGAAGCCAGCCGAGG
 AAAGCAACTACCGGCTGCTGCGCCGAAACAACAGTTACACCTGCTACACCGCAGCCATTTGTGGCTGCC
 AGTGCACGCCACCTTTCGAGCTGCGGACTCATCGGCCCCAGAGGACAGTGAAGAAGCTGGTGGGCGACACC
 GTGTCCTACTCCAAGAAGAGGCTGCGCTACGACAGCTACTCGAGCTACTGTAACGCGGTGGCAGAGGCGG
 AGATCGAGGCGGAGGAGGCGCGGTGGAGATGAAGCTGGCGTGGAGCTGGCCGACCCTGACCAGCCGCG
 AGAGGACCCTGCAGAGGAGGAGAAGGAGGAGAAGGACGCACCCGAGGTTACCTCCTGTTCCATTTCTG
 CAGGCTCTCACCGCTGTTTCGGGTCCTTTGCTCACGGCGCAATGACGTGAGTAATGCCATCGGTCCCC
 TGGTAGCCTTGTGGCTGATTTACAACAAGGCGGGGTAACGCAAGAAGCAGCTACACCCGCTGGCTGCT
 GTTTTATGGAGGAGTTGGAATCTGCACAGGCTCTGGGCTGGGGGAGAAGAGTGATCCAGACCATGGG
 AAGGACCTCACTCCCATCAGCCGTCACGGGCTTACGATCGAGCTGGCCTCAGCCTTACAGTGGTGA
 TCGCCTCAACATCGGGCTTCCAGTCAACAGCAGCACTGAAGGTGGGCTCGGTGGTGGCGTGGGCTG
 GATCCGCTCCCGCAAGGCTGTGGACTGGCGCTCTTTCGGAACATCTTCGTGGCCTGGTTCGTGACCGTC
 CCTGTGGCTGGGCTGTTCAAGCGCTGCTGTATGGCTCTTCTCATGTATGGGATCCTTCCATATGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234660 representing NM_001257181
 Red=Cloning site Green=Tags(s)

MAMDEYLWMVILGFIIAFILAFSVGANDVANSFGTAVGSGVVTLRQACILASIFETTGSVLLGAKVGETI
 RKGIIDVNLVNETVETLMAGEVSAMVGSVAVWQLIASFLRLPISGTHCIVGSTIGFSLVAIGTKGVQWML
 VKIVASWFI SPLLSGFMSGLLFLVLRIRIFILKKEDPVPNGLRALPVFYAATIAINVSIMYTGAPVGLVL
 PMWAIALISFGVALLFAFFVWLVCPWMRRKITGKLQKEGALSRVDESLSKVQEAESPVKELPGAKAN
 DDSTIPLTGAAGETLGTSEGTSAAGSHPRAYGRALSMTHGSKVSPISNGTFGFDGHTSRDGHVYHTVHKD
 SGLYKDLLHKIHIHIDRGPEEKPAQESNYRLLRRNNSYTCYTAACICGLPVHATFRAADSSAPEDSEKLVGDT
 VSYSKRLRYDSYSSYCNAAVAEAEIEAEEGGVEMKLAELADPDQPREPAEEEEKEKDAPEVHLLFHFLL
 QVLTACFGSFAHGGNDVSNIGPLVALWLIYKQGGVTQEAAATPVWLLFYGGVGICTGLWVWRRRIQTMG
 KDLTPITPSSGFTIELASAFTVVIASNIGLPVSTTHCKVGSVAVGWIRSRKAVDWRLFRNIFVAWFVTV
 PVAGLFSAAVMALLMYGILPYV

TRTRPLE – GFP Tag – V

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:	<ol style="list-style-type: none">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
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]