

Product datasheet for **SC108104**

SLC20A2 (NM_006749) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC20A2 (NM_006749) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC20A2
Synonyms:	GLVR-2; GLVR2; IBGC1; IBGC2; IBGC3; MLVAR; PIT-2; PIT2; Ram-1; RAM1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006749 edited
 GAATTCGGCACGAGGCGTGTTCCTGCCTGCTGCTTGGCTGCAGTTAATTTTAGCCGGGT
 TAGTTCTATGAGTTGTAAGAGTAGAAGTTAGCAAGCTGAAATGTGACTTCTCGGCTAAT
 GTGGTAGGATATCTATTTTAGACTTCAGATTGTGTTTGTGATCAGGAGAGCAGTCTTCTG
 AAGAATTGTGGCTCAGTTTTCTGGAACTACTTGAGGAGACATCACAGCTTTCCAGAT
 CGGGAGGAAAAATATGGAATGTGTTTTACCGCTGACTGAACACAACAAATGAACTGTCC
 TGACAGTAGTTTGCAAACCAGCAGCTAGCAGTTTGTCCAGCCTCTAACATTGTCCAGCAC
 TTTCCAGAGCAAACCTCACTGTTTACAAGAACTCTTGGCCTTACGAAGTTTATAACCTCAA
 GCTTTGTTTATTTAAAAATTTCTGCAAAAAGAAAAGTACCCGGCACCCACTTTCCAAAAT
 GGCCATGGATGAGTATTTGTGGATGGTCATTTTGGGTTTCATCATAGCTTTCATCTTGGC
 CTTTTCTGTTGGTGCAAACGATGTTGCCAACTCCTTTGGTACAGCCGTGGGCTCTGGTGT
 GGTGACCTTGAGGCAGGCATGCATTTTAGCTTCAATATTTGAAACCACCGGCTCCGTGTT
 ACTAGGCGCCAAAGTAGGAGAAACCATTCGCAAAGGTATCATTGACGTGAACCTGTACAA
 CGAGACGGTGGAGACTCTCATGGCTGGGGAAGTTAGTGCCATGGTTGGTCCGCTGTGTG
 GCAGCTGATTGCTTCTTCTGAGGCTTCCAATCTCAGGAACGCAGTGCATTGTGGGTTT
 TACTATAGGATTCTCACTGGTCGCAATCGGTACCAAAGGTGTGCAGTGGATGGAGCTTGT
 CAAGATTGTTGCTTCTTGGTTTATCTCCACTGTTGTCTGGTTTTCATGTCTGGCCTGCT
 GTTTGTAATCATCAGAATTTTTCATCTTAAAAAAGGAAGACCCTGTTCCCAATGGCCTCCG
 GGCACCTCCAGTATTCTATGCTGCTACCATAGCAATCAATGTCTTTTCCATCATGTACAC
 AGGAGCACCAAGTGTCTGGCCTTGTCTCCCATGTGGGCCATAGCCCTCATTTCTTTGG
 TGTGCGCCCTCTGTTGCTTTTTTTTGTGTGGCTCTTCGTGTGTCGTTGGATGCGGAGGAA
 AATAACAGGCAAATTACAAAAAGAAGGTGCTTTATCACGAGTATCTGACGAAAGCCTCAG
 TAAGGTTTACGGAAGCAGAGTCCCCAGTATTTAAAGAGCTACCAGGTGCCAAGGCTAATGA
 TGACAGCACCATCCCGCTCACGGGAGCAGCAGGGGAGACTGGGGACCTCGGAAGGCAC
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 TGTGAAATCGCCATCTCAACGGCACCTTCGGCTTCGACGGCCACACCAGGAGCGACGG
 TCATGTGTACCACACCGTGCACAAGACTCGGGGCTCTACAAAGATCTGCTGCACAAAAT



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CCACATCGACAGGGGCCCGAGGAGAAGCCAGCCAGGAAAGCAACTACCGGCTGCTGCG
 CCGAAACAACAGTTACACCTGCTACACCGCAGCCATTTGTGGGCTGCCAGTGCACGCCAC
 CTTTCGAGCTGCGGACTCATCGGCCCCAGAGGACAGTGAGAAGCTGGTGGGCGACACCGT
 GTCCTACTCCAAGAAGAGGCTGCGCTACGACAGCTACTCGAGCTACTGTAACGCGGTGGC
 AGAGGCGGAGATCGAGGCGGAGGAGGGCGGCGTGGAGATGAAGCTGGCGTCGGAGCTGGC
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 CGAGGTTACCTCCTGTTCCATTTCTGCAGGTCCTCACCGCTGTTTCGGGTCCTTTGC
 TCACGGCGGCAATGACGTGAGTAATGCCATCGGTCCCCTGGTAGCCTTGTGGCTGATTTA
 CAAACAAGGCGGGTAACGCAAGAAGCAGCTACACCCGCTCTGGCTGCTGTTTTATGGAGG
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 TACGTAATAACTGTAATTTTTTAATGGTGTGCTTCCCTTATACTTTTTTGATCAGAGAATT
 TTGGAAAGTACCAAAGAAGCAGGGGAATCATTGGCCAGTGTACGTTTTTACATTGTCTG
 TCTCCACCTCACTGATCACGCCTGCCCCAGAGCAGTGTGTGGCGGTGACACCGTCACC
 CAGCATGCGCCACGCCGTGGCTCCCACCAGCAGTGCCACCGCCACCACACCCAGATCCC
 ACCCACCTTGAGTGGCCTTTCCCTTGTCATCAGAGTAGAGAATGCACAGGTGTTGGTGAG
 GCGGTGTGGCTGAGCACTACATGTCAAGTCCAGAGTCAGTTTCTATCCCAATTCTCCCTG
 CAGCCTGAAGAACGGATCCTTGTCTCCAATGTCAGCACAAAGGAGGCTTTTTCTGTGCTT
 TGACATTCAGCACTTACGGGATGAGAGGGAGGAGAATCCTGGATGCTGGATGGAGTAT
 TTCTCTGAGGCCACACAAAGCTGGACACCCCCAGGCTCTACTCCATCCCATTGGAGTCT
 CTTCTTTTTTTGATAGCGGGAGGAGGAAGTACGACTAATGTTGGAGCCTGAAACTATGG
 AAATGCTGCTAAAATTTTTATATTGACAAAATTTTCTTGGTACTTCATTGTCATTTTTTC
 ATTAATCAACCATATTAATTTATAATAAAAAATGCCCTCAGAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006749 unedited
 GTTCACATTTGTATACGACTCCTATAGGGCGGCCGCAATTTCGCACGAGGCGTGTTCCTG
 CCTGCTGCTTGGCTGCAGTTAATTTTAGCCGGGTTAGTTCTATGAGTTGTAAAAGTAGA
 AGTTAGCAAGCTGAAATGTGACTTCTCGGCCTAATGTGGTAGGATATCTATTTAGACTT
 CAGATTGTGTTTGTGATCAGGAGAGCAGTCTTCTGAAGAATTGTGGCTCAGTTTTCTTGG
 AAACACTTTGAGGAGACATCACAGCTTTCCAGATCGGGAGGAAAAATATGGAATGTGTT
 TTACCGTGACTGAACACAACCAATGAAGTGTCTGACAGTAGTTTGCAAACCCAGCAGC
 TAGCAGTTTGTCCAGCCTTAACATTGTCCAGCACTTTCCAGAGCAAACACTACTGTTTAC
 AAGAACTTTGGCCTTACGAAGTTTATAACCTCAAGCTTTGTTTATTTAAATATTCCTG
 CAAAAGAAAAGTACCCGGCACCCACTTTCCAAAATGGCCATGGATGAGTATTTGTGGATG
 GTCATTTTGGGTTTCATCATAGCTTTTCATCTTGGCCTTTTCTGTTGGTGCAAACGATGTT
 GCCAACTCCTTTGGTACAGCCGTGGGCTCTGGTGTGGTGACCTTGAGGCAGGCATGCATT
 TTAGCTTCAATATTTGAAACCACCGCTCCGTGTTACTAGGCGCAAAGTAGGAGAAACC
 ATTCGAAAGGTATCATTGACGTGAACCTGTACAACGAGACGGTGGAGACTCTCATGGCT
 GNNGAAGTTAGTCCATGGNTGGTTCGGCTGTGTGGCAGCTGATTGCTTCTTTNCTGAG
 CTTCATCTCAGAACGCCTGCATTGTGGGTCTCTATAGGATCTACTGGTCGCAATCGTA
 CCAAGGTGTGCAGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006749 unedited
 ACCGCGCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTCTGAGGGGCATTTTTTATTATAAATTTAATATGGGTGATTAATGAAAAATGACAATGA
 AGTACCAAGAAAATGTTTGTCAATATAAAAAATTTAGCAGCATTTCATAGTTTCAGGCT
 CCAACATTAGTCGTAATCTCCCTCCCCTATCAAAAAAAGAAAAGACTCCAATGGGAT
 GGAGTAAAGCCTGGGGGTGTCCAGCTTTGTGGGGGCTCAAAAAATACTCCATCCAGCA
 TCCAGGATTCTCCCTCCCTTTTATCCCTGAAGGGCTAAAATGTCAAAGCACAAAAAAGC
 CTCCTTTGTGCTGACATTGGAACAAGGATCCGTTCTTCAGGCTGCAGGGAAAATTGGGA
 TAAAAACTGACTCTGGACTTGACATGTAGTGCTCAGCCACACGCCCTACCAACACCTGT
 GCATTCTACTCTGATGACAAGGAAAGGCCACTGCAAGGTGGTGAATCTGGGGTGTG
 GTGGCGGTGGCACTGCTGGTGGGAGCCACGGCGTGGCGCATGCTGGGTGACGGTGTCAAC
 GCCACACACTGCTCTGGGGCAGGCGTGATCAGTGAGGGTGGGAGACAGACAATGTAAAAA
 CGTAACACTGGCCAATGATTCCTGCTTCTTTGGTACTTTTCNCAAAATCTCTGATCAAA
 AAAGTATAAGGGGAAGCACACCATTAATAAATACAGTTTTTACGTATTTACAAAAAGCA
 TGATGATATATTACACAANCATCAATACACAGTATATGAACAAATCTTCAGTGAAAGCAC
 TTGTGAGCTTCCGTCCCCTGTNATTCACAGNACGGACCTCTGNAGGGGAAGGNTGCC
 CTGTTCTGAACCTCATTACCTTACANNNTTTAGAAGGCANNAACTCATTTTGAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_006749

Insert Size:

1959 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_006749.3](#), [NP_006740.1](#)

RefSeq Size: 3685 bp

RefSeq ORF: 1959 bp

Locus ID: 6575

UniProt ID: [Q08357](#)

Cytogenetics: 8p11.21

Domains: PHO4

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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.