

Product datasheet for **RC201882**

SLC20A1 (NM_005415) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC20A1 (NM_005415) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC20A1
Synonyms:	Glvr-1; GLVR1; PiT-1; PIT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC201882 representing NM_005415
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAACGCTGATTACCAGTACTACAGCTGCTACCGCCGCTTCTGGTCCTTTGGTGGACTACCTATGGA
TGCTCATCCTGGGCTTCATTATTGCATTTGTCTTGGCATTCTCCGTGGGAGCCAATGATGTAGCAAATTC
TTTTGGTACAGCTGTGGGCTCAGGTGTAGTGACCTGAAGCAAGCCTGCATCCTAGCTAGCATCTTTGAA
ACAGTGGGCTCTGTCTTACTGGGGCCAAAGTGAGCGAAACCATCCGGAAGGGCTTGATTGACGTGGAGA
TGTACAACCTCGACTCAAGGGCTGCTGATGGCCGGCTCAGTCAGTGCTATGTTTGGTTCTGCTGTGGCA
ACTCGTGGCTTCGTTTTTGAAGCTCCCTATTTCTGGAACCCATTGTATTGTTGGTGAACCTATTGGTTTC
TCCCTCGTGGCAAAGGGCAGGAGGGTGTCAAGTGGTCTGAAGTATAAAAAATTGTGATGTCTTGGTTCCG
TGTCCTCCACTGCTTTCTGGAATTATGTCTGGAATTTTATCTTCCCTGGTTCGTGCATTATCCTCCATAA
GGCAGATCCAGTTCCTAATGGTTTGCAGCTTTGCCAGTTTTCTATGCCTGCACAGTTGGAATAAACCTC
TTTTCCATCATGTATACTGGAGCACCGTTGCTGGGCTTTGACAACTTCCCTGTGGGGTACCATCTCTCA
TCTCGGTGGGATGTGCAGTTTTCTGTGCCCTTATCGTCTGGTTCTTTGTATGTCCAGGATGAAGAGAAA
AATTGAACGAGAAATAAAGTGTAGTCTTCTGAAAGCCCCTAATGGAAGAAAAAGAAATAGCTTGAAGAA
GACCATGAAGAAACAAAGTTGTCTGTGGTGATATTGAAACAAGCATCTGTTTCTGAGGTAGGGCCTG
CCACTGTGCCCTCCAGGCTGTGGTGGAGGAGAGAACAGTCTCATTCAAACCTGGAGATTTGGAGGAAGC
TCCAGAGAGAGAGAGGCTTCCAGCGTGGACTTGAAGAGGAAACCAGCATAGATAGCACCGTGAATGGT
GCAGTGCAGTTGCCTAATGGGAACCTTGTCCAGTTCAGTCAAGCCGTGAGCAACCAATAAACTCCAGTG
GCCACTACCAGTATCACACCGTGCATAAGGATTCGGCCTGTACAAAGAGCTACTCCATAAATTACATCT
TGCCAAGGTGGGAGATTGCATGGGAGACTCCGGTGACAAACCCTTAAGGGCAATAATAGCTATACTTCC
TATACCATGGCAATATGTGGCATGCCTCTGGATTATTCCGTGCCAAAGAAGGTGAACAGAGGGCGAAG
AAATGGAGAAGCTGACATGGCCTAATGCAGACTCCAAGAAGCGAATTCGAATGGACAGTTACACCAGTTA
CTGCAATGCTGTGTCTGACCTTCACTCAGCATCTGAGATAGACATGAGTGTCAAGGCAGAGATGGGTCTA
GGTGACAGAAAAGGAAGTAAATGGCTCTCTAGAAGAATGGTATGACCAGGATAAGCCTGAAGTCTCTCC
TCTTCCAGTTCCTGCAGATCCTTACAGCCTGCTTTGGGTATTGCCCCATGGTGGCAATGACGTAAGCAA
TGCCATTGGGCCCTCTGGTTGCTTTATATTTGGTTTATGACACAGGAGATGTTTCTCAAAGTGGCAACA
CCAATATGGCTTCTACTCTATGGTGGTGTGGTATCTGTGTTGGTCTGTGGGTTTGGGGAAGAAGAGTTA
TCCAGACCATGGGAAGGATCTGACACCGATCACACCCTTAGTGGCTTCAGTATTGAACTGGCATCTGC
CCTCACTGTGGTATTGCATCAAATATTGGCCTTCCCATCAGTACAACACATTGTAAGTGGGCTCTGTT
GTGTCTGTTGGCTGGCTCCGGTCCAAGAAGGCTGTTGACTGGCGTCTTTTCGTAACATTTTATGGCCT
GGTTTGTACAGTCCCCATTTCTGGAGTTATCAGTGTGCCATCATGGCAATCTTCAGATATGTCATCTC
CAGAATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201882 representing NM_005415
 Red=Cloning site Green=Tags(s)

MATLITSTTAATAASGPLVDYLWMLILGFIIAFVLAFVSGANDVANSFGTAVGSGVVTLKQACILASIFE
 TVGSVLLGAKVSETIRKGLIDVEMYNSTQGLLMAGSVSAMFGSAVWQLVASFLKLPISGTHCIVGATIGF
 SLVAKGQEGVKWSELIKIVMSWFVSPLLSGIMSGILFFLVRAFILHKADPVPNGLRALPVFYACTVGINL
 FSIMYTGAPLLGFDKLPWGTILISVGCADFVFCALIVWFFVCPMRKRIEREIKCSPSESPLEKKNLKE
 DHEETKLSVGDIEKNHPVSEVGPATVPLQAVVEERTVSFKLGDLEEAPERERLPSVDLKEETSIDSTVNG
 AVQLPNGNLVQFSQAVSNQINSSGHYQYHTVHKDGLYKELLHKLHLAKVGDCMGDSGDKPLRRNNSYTS
 YTMAICGMLDSFRAKEGEQKGEEMKLTWPNADSKKRIRMSYTSYCNVSDLHASEIDMSVKAEMGL
 GDRKGSNGSLEEWYDQDKPEVSLLFQFLQILTACFGSAFHGGNDVSNVIGPLVALYLVYDGDVSSKVAT
 PIWLLLYGGVGVICVGLWVWGRRIQTMGKDLTPITPSSGFSIELASALTVVIASNIGLPISTTHCKVGSV
 VSWGWLRSKKAVDWRLFRNIFMAWFVTVPISGVISAAIMAFRYVILRM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_005415

ORF Size: 2037 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_005415.5](#)

RefSeq Size: 3297 bp

RefSeq ORF: 2040 bp

Locus ID: 6574

UniProt ID: [Q8WUM9](#)

Cytogenetics: 2q14.1

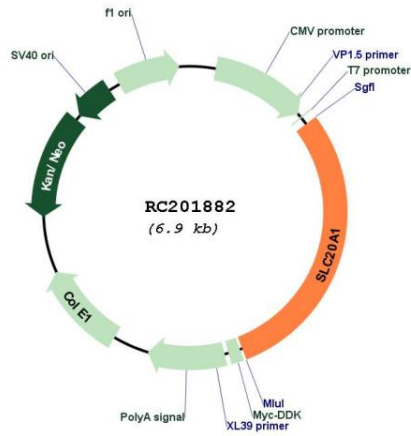
Domains: PHO4

Protein Families: Druggable Genome, Transmembrane

MW: 73.5 kDa

Gene Summary: The protein encoded by this gene is a sodium-phosphate symporter that absorbs phosphate from interstitial fluid for use in cellular functions such as metabolism, signal transduction, and nucleic acid and lipid synthesis. The encoded protein is also a retroviral receptor, causing human cells to be susceptible to infection by gibbon ape leukemia virus, simian sarcoma-associated virus, feline leukemia virus subgroup B, and 10A1 murine leukemia virus.[provided by RefSeq, Mar 2011]

Product images:



Circular map for RC201882