

Product datasheet for **SC116750**

SLC20A1 (NM_005415) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC20A1 (NM_005415) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC20A1
Synonyms:	Glvr-1; GLVR1; PiT-1; PIT1
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005415, the custom clone sequence may differ by one or more nucleotides

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ATGGCAACGCTGATTACCAGTACTACAGCTGCTACCGCCGCTTCTGGTCCTTTGGTGGACTACCTATGGA
TGCTCATCTGGGCTTCATTATTGCATTTGCTTGGCATTCTCCGTGGGAGCCAATGATGTAGCAAATTC
TTTTGGTACAGCTGTGGGCTCAGGTGTAGTGACCTGAAGCAAGCCTGCATCCTAGCTAGCATCTTTGAA
ACAGTGGGCTCTGTCTTACTGGGGGCCAAAGTGAGCGAAACCATCCGGAAGGGCTTGATTGACGTGGAGA
TGTACAACCTCGACTCAAGGGCTGCTGATGGCCGGCTCAGTCAGTGCTATGTTTGGTTCTGCTGTGTGGCA
ACTCGTGGCTTCGTTTTGAAGCTCCCTATTTCTGGAACCCATTGTATTGTTGGTGCAACTATTGGTTTTC
TCCCTCGTGGCAAAGGGCAGGAGGGTGTCAAGTGGTCTGAACTGATAAAAAATTGTATGTCTTGGTTTCG
TGTCCCACTGCTTTCTGGAATTATGTCTGGAATTTTATTCTTCTGTTCTGTCATTTCCTCCATAA
GGCAGATCCAGTTCCTAATGGTTTGGCAGCTTGGCAGTTTTCTATGCCTGCACAGTTGGAATAAACCTC
TTTTCCATCATGTATACTGGAGCACCGTTGCTGGGCTTGGACAACTTCTCTGTGGGTACCATCTCA
TCTCGGTGGGATGTGCAGTTTTCTGTGCCCTTATCGTCTGGTTCTTTGTATGTCCAGGATGAAGAGAAA
AATTGAACGAGAAATAAAGTGTAGTCTTCTGAAAGCCCTTAATGGAAGAAAAAGAAATAGCTTGAAGAAA
GACCATGAAGAAACAAAGTTGTCTGTTGGTGATATTGAAAACAAGCATCCTGTTTCTGAGGTAGGGCCTG
CCACTGTGCCCTCCAGGCTGTGGTGGAGGAGAGAACAGTCTCATTCAAACCTGGAGATTTGGAGGAAGC
TCCAGAGAGAGAGAGGCTTCCAGCGTGGACTTGAAAGAGGAAACCAGCATAGATAGCACCGTGAATGGT
GCAGTGCAGTTGCCTAATGGGAACCTTGTCCAGTTCAGTCAAGCCGTGAGCAACCAATAAACTCCAGTG
GCCACTACCAGTATCACACCGTGCATAAGGATTCGGCCTGTACAAAGAGCTACTCCATAAATTACATCT
TGCCAAAGTGGGAGATTGCATGGGAGACTCCGGTGACAAACCTTAAGGCGCAATAATAGCTATACTTCC
TATACCATGGCAATATGTGCATGCCTCTGGATTCAATCCGTGCCAAAGAAAGTGAACAGAAAGGGCGAAG
AAATGGAGAAGCTGACATGGCCTAATGCAGACTCAAGAAGCGAATTGGAATGGACAGTTACACCGTTA
CTGCAATGCTGTGCTGACCTTCACTCAGCATCTGAGATAGACATGAGTGTCAAGGCAGAGATGGGTCTA
GGTGACAGAAAAGGAAGTAATGGCTCTCTAGAAGAATGGTATGACCAGGATAAGCCTGAAGTCTCTCTCC
TCTTCCAGTTCCTGCAGATCCTTACAGCCTGCTTTGGGTCAATCGCCCATGGTGGCAATGACGTAAGCAA
TGCCATTGGGCCTCTGGTTGCTTTATATTTGGTTTATGACACAGGAGATGTTTCTCAAAGTGGCAACA
CCAATATGGCTTCTACTCTATGGTGGTGTGGTATCTGTGTGGTCTGTGGGTTGGGGAAGAAGAGTTA
TCCAGACCATGGGAAGGATCTGACACCGATCACACCTCTAGTGGCTCAGTATTGAACTGGCATCTGC
CCTCACTGTGGTATTGCATCAAATATTGGCCTTCCCATCAGTACAACACATTGTAAGTGGGCTCTGTT
GTGTCTGTTGGCTGGCTCCGGTCCAAGAAGGCTGTTGACTGGCGTCTCTTTCGTAACATTTTTATGGCCT
GGTTTGTACAGTCCCAATTTCTGGAGTTATCAGTGTGCCATCATGGCAATCTTCAGATATGTCATCCT
CAGAATGTGA
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_005415 unedited
TTGTGATACTACTTAGGCGCCGCGAATTCGCACGAGGCCTCGTGCCGAATTCGGCA
CGAGGCTCCAGCCGCTGCCGCCCTCGATCTCCTCGTCTCCCGCTCCGCCCTCCCTTTTCCC
TGGATGAACTTGCCTCTTTCTTCTCCGCCATGGAATTCGCTCCGTGCTTTTAGCCC
TCTTGAGCCAAAGAAACCCAGACAACAGATGCCATACGCAGGATATAGCAGTAACTCC
CCAGCTCGTTTTCTGTGCCGTAGTTTACAGTATTTAATTTTATATAATATATATTATTTA
TTATAGCATTTTTGATACCTCATATTCTGTTTACACATCTTGAAGGGCGCTCAGTAGTTC
TCTTACTAAACAACCACTACTCCAGAGAATGGCAACGCTGATTACCAGTACTACAGCTGC
TACCGCCGCTTCTGGTCTTTGGTGGACTACCTATGGATGCTCATCCTGNGCTTCATTAT
TGCATTTGTCTTGGCATTCTCCGTGGGAGCCAATGATGTANCAAATCTTTTGGTACAGC
TGTGGGCTCANGTGTAGTGACCCTGAAGCAAGCCTGCATCCTAGCTAGCATCTTTGAAAC
AGTGGGCTCTGTCTTACTGGGGGCCAAAGTGAGCGAAACCATCCGGAAGGGCTTGATTGA
CGTGGAGATGTAACTCGACTCAAGGGCTGCTGATGGCCGGCTCANTCAGTGCTATGTT
TGGTTCTGCTGTGTGGCACTCGTGGCTTCGTTTTGAAGCTCCCTATTCTGGAACCCATGT
ATTGGTGGTGCATATTGTTTTCTCCTCGGGCAAAGGGCANGAGGGTGTCAAGTGGCCTG
ACTGAAAAAATGGATGCCTTGGTGGGCCCCCGCTTCTGAATTATT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005415 unedited CCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCTAAAACTGTAGGCTT TTTTATTCAGTTAAGAGGTAGACAAATGAACATGGAAGGCTGTCCCATTTAACTTGCCCA AAGTTCACATTCCTCATTCCATCCCACACTGCCAGAAATCTTAAAGAAATAACC AAGATTGCCAACAGGCTTTTTCTTCTTACTTCTTCTTAGCAATAACAGTCAATAAACTG CTTGCAAAAAAGTTACTAATTTAAATTTCACTGTGTTCAAAGAACCTCATCCCTCTAAG AAGTCCCGAATATGCCAATAGATCCTGCCACTACTGACAGGAGGCAGAGTACCAAGGA CTCTACTTATATAAGAGACTACAAGGGAAGTTGTAGTTATATTTTTCTGTAAATCCCT GTGCATGTGAGGGCAGAAGCTGGTGAAACCAACAACGCATAGCATGCTCTGTCAAACGGC TCTTCATGGTTTTAAAAAAGACAAAAAATCACAAGTCATCTTCAGAGACAACATTA ACATAATGGAATTGAAGCCTGATACAAAAAGTAGAGAAATTGTACAGGAATCACAGCCCA GAAGGAAAGGGGACCTCAGCAGGAGCCAGTGAACCCGGGCTATTTTACCAGCTAATTT TGAAACAATTCATATTTATCACAAAAGCATTTTAGCCCAAGTACACTTCCCTCCTCTGGT TCCCACAAAAAGACCCTCGGCAGTNTTCCGCCACACTGGAATCATTCTCCAGGGACCCG GAACCCTAAAAGGCCCAACCTTGACACAACCTTTAATCCCAAATCCTCCCACTCCGAG GTGACATACTTGAACATGCCGAAGGCCCACTGTAACCCCGAATGGGGACTGGCCAAAC AGCCCTATAATGTCCGAAAAGACCCCTCCACCCCTTTGGCCCGACCCACCCN
Restriction Sites:	NotI-NotI
ACCN:	NM_005415
Insert Size:	3850 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
RefSeq:	NM_005415.3 , NP_005406.3
RefSeq Size:	3297 bp
RefSeq ORF:	2040 bp
Locus ID:	6574
UniProt ID:	Q8WUM9 , A7LNJ1
Domains:	PHO4
Protein Families:	Druggable Genome, Transmembrane

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]