

Product datasheet for **MC220169**

Slc20a2 (NM_011394) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc20a2 (NM_011394) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc20a2
Synonyms:	MolPit2; Pit-2; Pit2; Ram-1; Ram1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220169 representing NM_011394
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCATGGACGGGTATCTGTGGATGGTCATTTTGGGTTTCATTATTGCTTTCATCCTGGCGTTTTTCAG
 TCGGTGCCAACGATGTTGCCAATTCCTTCGGAACCGCGGTGGGCTCTGGCGTGGTACCCTGAGACAGGC
 ATGCATTTCTGGCTTCCATATTTGAAACCACTGGCTCTGTGCTGCTGGGGCGAAGGTGGGGGAGACCATT
 CGGAAAGGCATCATTGACGTGAATCTCTACAACGAGACCGTGAAACGCTAATGGCTGGGGAAGTGAGCG
 CCATGGTTGGTTCAGCTGTCTGGCAGTTGATCGCGTCTTCTGAGACTGCCAATCTCGGGGACTCACTG
 CATCGTCGGCTCCACCATCGGCTTCTACTCGTGGCGATTGGCCCGAAAGGAGTGCAAGTGGAGCTC
 GTCAAGATTGTCGCTCCTGGTTTATATCGCCACTTCTTCTGGCTTTCATGTCCGGCGTGTCTTTCATAC
 TAATCAGAATGTTTCATCCTTACTAAGGAGGACCCTGTTCCAAACGGTCTCCAGGCACTGCCTCTGTTTTA
 TGCTGCTACCATAGCAATAAATGTCTTTCCATCATGTACACAGGAGCGCCAGTGTGGGCTGTGCTC
 CCCATCTGGGCAATAGCGCTCATATCCTTCGGCGTTGCTCTGCTGTTTCGCTTCTTCGTGTGGCTATTTCG
 TGTGTCCATGGATGAAGAGGAAGATAGCAGGCAGATTAGAGAAGGAGAGCGCTCTGTCCCGCGCTTCCGA
 TGAAAGCCTCAGGAAAGTACAGGAAGCTGAGTCCCTGGCTTCAAGGAGCTCCCTGGTGCCAAACCCAGC
 GATGACAGCGCTGTCCCCTCACCAGCCTGGCTGGGGAGGCCGTGGGGCCCTCAGAAGGCACGTCAGCAG
 GGAACCACCCCGGGCTTCTATGGACGGGCACCTTCCATGACTCACGGCTCTGCCAAGTCAACCCATCTC
 CAATGGTACATTTGGCTTTGAAGGCCACATGAGGAATGACGGTACGTTTATCATACTGTACACAAAAGAC
 TCGGGGCTCTACAAGACTTGTGCACAAAATCCACGTAGACAGGGGCTCCGAGGAGAAACCCACTCAGG
 AAAAACAACACAGGCTGCTTCGGAGGAACAACAGTTACACTGCTACACTGCGGCCATCTGCGGCATGCC
 GGTCACACCCTTTAGAGCCTCGGACACCTCCTCTGCCCCGAGGACAGTGAGAAGCTGGTGGGTGAC
 AGTGTGCTCTATTCCAAGAAGAGGCTCCGCTACGACAGCTACTCCAGCTACTGCAACGCAGTGGCTGAGG
 CCGAGATTGAGGCCAAGAGGGTGGTGTGGAAATGAGGCTGGCCTCTGAGCTGGCCGACCCTGACCGGCC
 TCACGAGGACCCACGGAGGAAGAGAAGGAGGAGAAGGACTCGGCAGAGGTCCACCTGCTTCCACTTC
 CTGCAAGTCTCACTGCCTGCTTCGGTCTTCTGCTCACGGTGGCAATGACGTGAGCAATGCTATTGGTC
 CCCTTGTGGCTTTGTGGTGATATCAACAAGGCGGAGTTACACAAGAAGCTGCTACTCCAGTCTGGCT
 GCTGTTTTACGGAGGAGTTGGCATTGTCACAGGCTCTGGGTTTGGGCGAGAAGAGTGATCCAGACCATG
 GGAAGGACCTCACGCCATCACACCGTCCAGTGGCTTCACTATTGAGCTGGCCTCTGCCTCACCGTGG
 TGATTGCCTCAAACATCGGGCTTCTGTGACACCACGCACTGCAAGGTGGGCTCCGTGGTGTGTTGGG
 CTGGATCCGCTCGCGGAAGGCTGTGGACTGGCGCCTTCCGGAACATTTTTGTTGCCTGGTTCGTGACT
 GTGCCCGTGGCTGGACTTTCAGTGTGCTATCATGGCTCTCCTCATGTACATATGTGGTCTTTTTCTT
 CCAGTCGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_011394
- Insert Size:** 1971 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_011394.3](#), [NP_035524.2](#)

RefSeq Size: 3658 bp

RefSeq ORF: 1971 bp

Locus ID: 20516

UniProt ID: [Q80UP8](#)

Cytogenetics: 8 11.42 cM

Gene Summary: Sodium-phosphate symporter which seems to play a fundamental housekeeping role in phosphate transport by absorbing phosphate from interstitial fluid for normal cellular functions such as cellular metabolism, signal transduction, and nucleic acid and lipid synthesis. In vitro, sodium-dependent phosphate uptake is not significantly affected by acidic and alkaline conditions, however sodium-independent phosphate uptake occurs at acidic conditions. May play a role in extracellular matrix, cartilage and vascular calcification. Functions as a retroviral receptor (By similarity).[UniProtKB/Swiss-Prot Function]