

Product datasheet for **MC228194**

Slc37a1 (NM_001242427) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc37a1 (NM_001242427) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc37a1
Synonyms:	G3PP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228194 representing NM_001242427
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCTGCTTCCCGTGGGCATCCGCTTCATCATCTCCTTCTCCAGGGATCAGTGGTACCGGGCTTTCA
 TTTTATGCTGACCTTTCTGCTCTATGCAAGCTTCCACTTATCCCGAAAGCCTATCAGCATAGTGAAGGG
 CGAGCTTCACAAGCAGTGTACTGCAGGAGATGGCCTGAGTCTCCATTAGTGACCTAGCAGCAGCACC
 AGGCATGGCCCCACCACTGGCTCCTGAACAATGAGACCGACTGTGGCTGGGCCCTTCGATAAGAACA
 ATTACCAGCAGCTGCTTGGAGCCCTGGACTACGCCTTCTGTGCGCCTATGCCATTGGAATGTACCTGAG
 TGAATAATAGGGGAACGCCTGCCGATTAGGTATTACCTGACTTTCGGGATGCTGGCCAGCGGCCCTTC
 ACAGCCCTGTTCCGGCTTGGGCTATTTCTACAACATCCACAGCCTGGGATTCTACGTGGTGACCCAGATCA
 TTAATGGACTGGTGCAGACCACAGGCTGGCCAGCGTTGTACCTGCCTCAGCAACTGGTTTGGAAAAGG
 AAGGCGTGGCCTGATCATGGGGATTTGAACTCCACACCTCCGTGGGCAACATTCTGGGGTCTTGATT
 GCCGGCTACTGGGTGTCTACGTGCTGGGCCTGTCAATTTATCGTCCCTGGGGCCATCGTGGCAGCCATGG
 GGATAGTGTGCTTCTCTTTCTCATCGAACACCCTAAGGACGTCAAGTGCTCCTCCACCCTCCCCACGCA
 CCCTAGAGCCTCTGAGAAATGGCATAAACAGATTTAGACTGCAGAAGCAAACACGTACAGTGAAGAAGAT
 GGACCTCTGGACCAGAGCTTCACTGCTTACTCTCCGACGGGAAGAACCCCTTCACCCAAGCCATA
 TTGTTGCTCCTCCCTGCTGATGGCAACATGGCCGCCATCAGCTTACGGGAGCCCTGAGGATCCCGGGCGT
 GATTGAGTTTTCTGTGTTTGTGTTTGCCAAGCTGGTACAGTACACATTCCTGTTCTGGCTCCCGCTG
 TACATCACCAGTGTAGATCACCTGGATGCCAAGAAAGCTGGGGAGCTGTCCACATTGTTTGACGTGGCGG
 GGATCTTTGGTGGGATTCTAGCAGGCGTATCTCCGACCGTCTGGAGAAACGAGCCTCCACTTGTGGTCT
 GATGCTATTGCTGGCAGCACCCACGCTCTATGTCTTCTCCTCCGTCAGCAGAATGGGCCTAGAAGCCACC
 ATAGCCATGTTGCTCCTCAGTGGGGCCCTGGTGAAGCGGCCCTACGCACTGATCACCCTGCGTCTCTG
 CAGACTTGGGACTCACAAAGTCTGAAAGGAACTCCACGCCCTGTCCACCCTGACAGCCATCATCGA
 CGGCACTGGGTCTGTAGGAGCTGCCTTGGGGCCCTGCTGGCAGGGCTCATCTCCCCTCTGGATGGAGC
 AACGTGTTCTACATGCTGATGTTTGCAGATGCCTGTGCCTTACTGTTCTGGTCCGCCTCATACACAAGG
 AGTTGAGCTGTCCAGGCCAGCCGAGGATCCAGGCTCCGCTGAAGGAACAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001242427

Insert Size: 1596 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001242427.1](#), [NP_001229356.1](#)

RefSeq Size: 3362 bp

RefSeq ORF: 1596 bp

Locus ID: 224674

UniProt ID: [Q8R070](#)

Cytogenetics: 17 B1

Gene Summary: Inorganic phosphate and glucose-6-phosphate antiporter. May transport cytoplasmic glucose-6-phosphate into the lumen of the endoplasmic reticulum and translocate inorganic phosphate into the opposite direction. Independent of a luminal glucose-6-phosphatase. May not play a role in homeostatic regulation of blood glucose levels.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein.