

Product datasheet for **MR230405**

Slc37a1 (NM_001242427) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR230405 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCTGCTTCCCGTGGGCATCCGCTTCATCATCTCCTTCTCCAGGGATCAGTGGTACCGGGCTTTCA
 TTTTATGCTGACCTTTCTGCTCTATGCAAGCTTCCACTTATCCCGAAAGCCTATCAGCATAGTGAAGGG
 CGAGCTTCAACAAGCAGTGTACTGCAGGAGATGGCCTGAGTCTCCATTAGTGACCTAGCAGCAGCACC
 AGGCATGGCCCCACCACTGGCTCCTGAACAATGAGACCGACTGTGGCTGGGCCCTTCGATAAGAACA
 ATTACCAGCAGCTGCTTGGAGCCCTGGACTACGCCTTCTGTGCGCCTATGCCATTGGAATGTACCTGAG
 TGGAAATAAGGGGAACGCCTGCCGATTAGGTATTACCTGACTTTCGGGATGCTGGCCAGCGGCCCTTC
 ACAGCCCTGTTCCGGCTTGGGCTATTTCTACAACATCCACAGCCTGGGATTCTACGTGGTGACCCAGATCA
 TTAATGGACTGGTGCAGACCACAGGCTGGCCAGCGTTGTACCTGCCTCAGCAACTGGTTTGGAAAAGG
 AAGGCGTGGCCTGATCATGGGGATTTGAACTCCACACCTCCGTGGGCAACATTCTGGGGTCTTGATT
 GCCGGCTACTGGGTGCTACGTGCTGGGCCTGTCAATTTATCGTCCCTGGGGCCATCGTGGCAGCCATGG
 GGATAGTGTGCTTCTCTTTCTCATCGAACACCCTAAGGACGTCAAGTGCTCCTCCACCCTCCCCACGCA
 CCCTAGAGCCTCTGAGAAATGGCATAAACAGATTTAGACTGCAGAAGCAAACACGTACAGTGAAGAAGAT
 GGACCTCTGGACCAGAGCTTCACTGCTTACTCTCCGACGGGAAGAACCCCTTACCCAAGCCATA
 TTGTTGCTCCTCCCTGCTGATGGCAACATGGCCGCCATCAGCTTACGGGAGCCCTGAGGATCCCGGGCGT
 GATTGAGTTTTCTGTGTTTGTGTTTGCAGCTGAGTACACATTCTGTTCTGGCTCCCGCTG
 TACATCACCAGTGTAGATCACCTGGATGCCAAGAAAGCTGGGGAGCTGTCCACATTGTTTACGTGGGCG
 GGATCTTTGGTGGGATTCTAGCAGGCTGATCTCCGACCGTCTGGAGAAACGAGCCTCCACTTGTGGTCT
 GATGCTATTGCTGGCAGCACCCACGCTCTATGTCTTCTCCTCCGTCAGCAGAATGGGCCAGAAAGCCACC
 ATAGCCATGTTGCTCCTCAGTGGGGCCCTGGTGGGCGCCCTACGCACTGATCACCCTGCGTCTCTG
 CAGACTTGGGACTCACAGAGTCTGAAAGGAACTCCCACGCCCTGTCCACCCTGACAGCCATCATCGA
 CGGCACTGGGCTGTAGGAGCTGCCTTGGGGCCCTGCTGGCAGGGCTCATCTCCCCTCTGGATGGAGC
 AACGTGTTCTACATGCTGATGTTTGCAGATGCCTGTGCCTTACTGTTCTGGTCCGCCTCATACACAAGG
 AGTTGAGCTGTCCAGGCCAGCCGAGGATCCAGGCTCCGCTGAAGGAACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230405 protein sequence
 Red=Cloning site Green=Tags(s)

MALLPVGIRFIIISFSRDQWYRAFIFMLTFLLYASFHLSRKPISIVKLGELHKQCTAGDGPESPFSDPSSST
 RHGPTHWLLNNETDCGWAPFDKNNYQQLLGALDYAFLCAYAIGMYLSGII GERLP IRYYLTFGMLASGAF
 TALFGLGYFYNIHSLGFYVVTQIINGLVQTTGWPSVVTCLSNWFGKRRRLIMGIWNSHTSVGNILGSLI
 AGYWVSTCWGLSFIVPGAIVAAMGIVCFLEHIEHPKDVKCSSTLPTHPRASENGINRFLQQTYYSEKN
 GPLDPELQCLLLSDGKNPLHPSHIVVLPADGNMAAISFTGALRIPGVIEFSLCLLFAKLVSYTFWLP
 YITSVDHLDAKKAGELSTLFDVGGIFGGILAGVISDRLEKRASTCGLMLLLAAPTLYVFSVSRMGLEAT
 IAMLLLSGALVSGPYALITTAVSADLGHKSLKGNHALSTVTAIIDGTGSVGAALGPLLAGLISPSGWS
 NVFYMLMFADACALLFLVRLIHKELSCPFAAGIQAPLKEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001242427

ORF Size: 1596 bp

OTI Disclaimer: 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_001242427.1](#), [NP_001229356.1](#)

RefSeq Size: 3362 bp

RefSeq ORF: 1596 bp

Locus ID: 224674

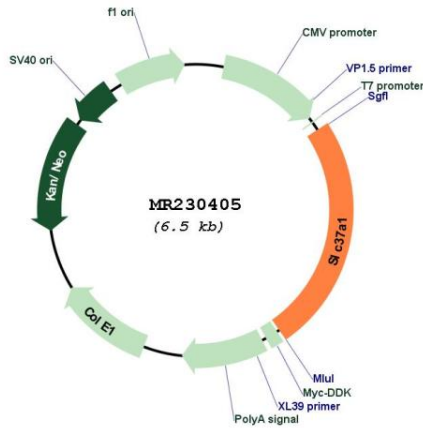
UniProt ID: [Q8R070](#)

Cytogenetics: 17 B1

MW: 57.4 kDa

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]

Product images:



Circular map for MR230405