

## Product datasheet for **MR208511**

### **Slc37a1 (NM\_153062) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc37a1 (NM_153062) 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:**

>MR208511 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCTGCTTCCCGTGGGCATCCGCTTCATCATCTCCTTCTCCAGGGATCAGTGGTACCGGGCTTTCA  
 TTTTATGCTGACCTTTCTGCTCTATGCAAGCTTCCACTTATCCCGAAAGCCTATCAGCATAGTGAAGGG  
 CGAGCTTCAACAAGCAGTGTACTGCAGGAGATGGCCTGAGTCTCCATTAGTGACCTAGCAGCAGCACC  
 AGGCATGGCCCCACCACTGGCTCTGAACAATGAGACCGACTGTGGCTGGGCCCTTCGATAAGAACA  
 ATTACCAGCAGCTGCTTGGAGCCCTGGACTACGCCTTCTGTGCGCCTATGCCATTGGAATGTACCTGAG  
 TGAATAATAGGGGAACGCCTGCCGATTAGGTATTACCTGACTTTCGGGATGCTGGCCAGCGGCCCTTC  
 ACAGCCCTGTTCCGGCTTGGGCTATTTCTACAACATCCACAGCCTGGGATTCTACGTGGTGACCCAGATCA  
 TTAATGGACTGGTGCAGACCACAGGCTGGCCAGCGTTGTACCTGCCTCAGCAACTGGTTTGGAAAAGG  
 AAGGCGTGGCCTGATCATGGGGATTTGAACTCCACACCTCCGTGGGCAACATTCTGGGGTCTTGATT  
 GCCGGCTACTGGGTGCTACGTGCTGGGCCTGTCAATTTATCGTCCCTGGGGCCATCGTGGCAGCCATGG  
 GGATAGTGTGCTTCTCTTTCTCATCGAACACCCTAAGGACGTCAAGTGCTCCTCCACCCTCCCCACGCA  
 CCCTAGAGCCTCTGAGAAATGGCATAAACAGATTTAGACTGCAGAAGCAAACCACGTACAGTGAAGAAGT  
 GGACCTCTGGACCAGAGCTTCACTGCTTACTCTCCGACGGGAAGAACCCCTTACCCAAGCCATA  
 TTGTTGCTCCTCCCTGCTGATGGCAACATGGCCGCCATCAGCTTACGGGAGCCCTGAGGATCCCGGGCGT  
 GATTGAGTTTTCTGTGTTTGTGTTTGCAGCTGAGTACACATTCTGTTCTGGCTCCCGCTG  
 TACATCACCAGTGTAGATCACCTGGATGCCAAGAAAGCTGGGGAGCTGTCCACATTGTTTACGTGGGGC  
 GGATCTTGGTGGGATTCTAGCAGGCTGATCTCCGACCGTCTGGAGAAACGAGCCTCCACTTGTGGTCT  
 GATGCTATTGCTGGCAGCACCCACGCTCTATGTCTTCTCCTCCGTCAGCAGAATGGGCCAGAAAGCCACC  
 ATAGCCATGTTGCTCCTCAGTGGGGCCCTGGTGGGCGCCCTACGCACTGATCACCCTGCGTCTCTG  
 CAGACTTGGGACTCACAGAGTCTGAAAGGAACTCCCACGCCCTGTCCACCCTGACAGCCATCATCGA  
 CGGCACTGGGCTGTAGGAGCTGCCTTGGGGCCCTGCTGGCAGGGCTCATCTCCCCTCTGGATGGAGC  
 AACGTGTTCTACATGCTGATGTTTGCAGATGCCTGTGCCTTACTGTTCTGGTCCGCCTCATACACAAGG  
 AGTTGAGCTGTCCAGGCCAGCCGAGGATCCAGGCTCCGCTGAAGGAACAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208511 protein sequence  
 Red=Cloning site Green=Tags(s)

MALLPVGIRFIIISFSRDQWYRAFIFMLTFLLYASFHLSRKPISIVKELHKQCTAGDGPESPFSDPSSST  
 RHGPTHWLLNNETDCGWAPFDKNNYQQLLGALDYAFLCAYAIGMYLSGII GERLP IRYYLTFGMLASGAF  
 TALFGLGYFYNIHSLGFYVVTQIINGLVQTTGWPSVVTCLSNWFGKRRRLIMGIWNSHTSVGNILGSLI  
 AGYWVSTCWGLSFIVPGAIVAAMGIVCFLEHIEHPKDVKCSSTLPHPRASENGINRFR LQQTYYSEKN  
 GPLDPELQCLLLSDGKNPLHPSHIVVLPADGNMAAISFTGALRIPGVIEFSLCLLFAKLVSYTFWLPPL  
 YITSVDHLDAKKAGELSTLFDVGGIFGGILAGVISDRLEKRASTCGLMLLLAAPTLYVVFSSVSRMGLEAT  
 IAMLLLSGALVSGPYALITTAVSADLGHKSLKGNSHALSTVTAIIDGTGSVGAALGPLLAGLISPSGWS  
 NVFYMLMFADACALLFLVRLIHKELSCPFAAGIQAPLKEH

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_153062

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\\_153062.2](#), [NP\\_694702.1](#)

RefSeq Size: 2942 bp

RefSeq ORF: 1596 bp

Locus ID: 224674

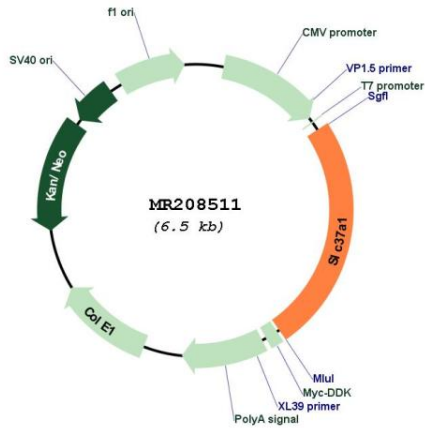
UniProt ID: [Q8R070](#)

**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 MR208511