

Product datasheet for **MR208046**

Slc37a2 (NM_020258) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc37a2 (NM_020258) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc37a2
Synonyms:	cl-2; ci2; G3PP; Slc37a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208046 representing NM_020258
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGGTCTCCCTGGCTCCTGGTGTCTGGTTCCTTCGCGCCTTCTCTAGGGACAGCTGGTTCGGTGGCT
 TCATCCTGCTGCTCACCTTCTCATTTATGCCTGTATACATGTCCAGAAAGCCCATCAGCATCGTCAA
 GAGCCGCCTGCACCAGAAGTCTCAGAGATGGTCAGACCTGTTAATGACACCCACGATCTCAATGATACC
 ACCTGGTGCAGCTGGAGTCCATTCGACAAAGATGACTACAAGGAGTTACTAGGAGCTGTGGACAATGCCT
 TCCTAGTGGCTTATGCCATTGGCATGTTTATTAGTGGAACTTTGGGGAGCGGCTGCCCTCGTACTA
 CCTCTCGGCTGGAATGGTCTAAGTGGCTATTCACCTCCCTCTTGGCCTGGGGTACTTCTGGAATATC
 CACATGCTCTGGTACTTTGTGCTCATCCAGATCTGCAACGGGCTTGTGCAGACTACAGGCTGGCCATCTG
 TGGTGACCTGTGTGGCAACTGGTTTGGGAAGGAAAGCGGGGATTCATCATGGGCATCTGGAACCTCA
 CACATCTGTGGCAACATTCTGGGCTCTCTGATTGCTGGAGTCTGGGTGAACCAGCACTGGGCCTGTCA
 TTCATCGTGCCTGGCATTACACTGCTATCATGGGTGTCATCACCTTCTCTTTCTTATTGAATATCCAG
 AAGATGTGGACTGTACCCCTCCTCGGCATCATGATGACCCGAGAAGGAACAGGACAACCCCTGAGGATCC
 TGTGAATAGTCCCTACAGCAGCAGGGAGAGTAATGTGGACATTGCAGCCAGCTCCTCAAGGAGCAGGGC
 CCTGAGCCTGAAGCCATCAGTTTCTGGGGCACTCAGAATTCGGGAGTGATCGAGTTCTTTTATGTC
 TGCTCTTTGCCAAGTTGGTCAGCTATACCTTCTCTACTGGTGCCTTGTACATCTTCAATGTGGCTCA
 CTTTAGTGCCAAGGAGGCTGGGGACCTATCCACGCTTTTGTATGTTGGTGGCATCATAGTGGCATCATG
 GCAGGGCTCATCAGCGACTACACCAATAGCAGGGCCACCACTTGCTGCATCATGCTGATCTTGGCTGCTC
 CCATGATGTTCTGTACAACACTACATTGGCCAGAATGGGATAACCCAGTTCATAGTATGTTAATTATCTG
 TGGGGTCTGGTCAATGGCCCTTACGCACTCATCACGACAGCGGTCTCTGCTGACCTGGGCACACATGAG
 AGCCTGAAGGGAACGCCAAGGCCCTCTCCACTGTCACGGCCATTATCGACGGCACTGGTCCATAGGTG
 CGGCTCTGGGGCCCTACTGGCCGGGCTCATTTCCCGACAGGCTGGAACAATGTGTTCTACATGCTCAT
 CTCTGCCGACGTCTTGGCTTGTGCTCTCTGCAGGTTGGTGTACAAAGAGATCCTGGCCTGGAAGACG
 GCCTGCGGCAGAAGCAGTGGGTACAAACAATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208046 representing NM_020258
 Red=Cloning site Green=Tags(s)

MRSSLAPGVWFLRAFSRDSWFRGFILLTFLIYACYHMSRKPISIVKSRLHQNCSEMRPVNDTHDLNDT
 TWCSWSPFDKDDYKELLGAVDNAFLVAYAIMFISGIFGERLPLRYL SAGMVL SGLFTSLFGLGYFWNI
 HMLWYFVLIQICNGLVQTTGWPSVVTVCGNWFGKGRGFIMGIWNSHTSVGNILGSLIAGVWVNHGWS
 FIVPGIITAIMGVITFLFLIEYPEDVDCTPPRHDDPEKEQDNPEDPVNSPYSSRESNVDIAASSSKEQG
 PEPEAISFLGALRIPGVIEFSLCLLFAKLVSYTFYWLPLYIFNVAHFSAKEAGDLSTLFDVGGIIGGIM
 AGLISDYNSRATTCCIMLILAAPMMFLYNYIGQNGITSSIVMLIICGVLVNGPYALITTAVSADLGTHE
 SLKGNALSTVTAIIDGTGSIGAALGPLLAGLISPTGWNNVFYMLISADVLACLLLCRLVYKEILAWKT
 AGRSSGYKQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9027_f09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_020258

ORF Size: 1503 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_020258.4](#), [NP_064654.3](#)

RefSeq Size: 4383 bp

RefSeq ORF: 1506 bp

Locus ID: 56857

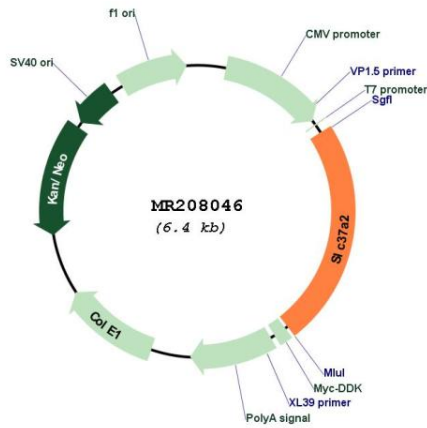
UniProt ID: [Q9WU81](#)

Cytogenetics: 9 A4

MW: 55.5 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 MR208046