

Product datasheet for **MC216315**

Slc25a23 (NM_025877) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a23 (NM_025877) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc25a23
Synonyms:	2310067G05Rik; SCaMC-3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216315 representing NM_025877
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATCGGGGGGGCTCAAGCGACGGAGCGCGGCAGCGCTGGGGTCGCCTGTTTCGAGGAAGTACAGCA
ACAAGGACGGCCGCGTGGACGTGCACGAGTTGCGCCAGGGGCTGGCCAGGCTGGGAAGGGGAGATCCGGA
CCGTGCACAGCAGGGTGTCTCCTCTGACTGGGATGCTGATCCTGATGGTGGCCTCAGCCTGGAGGATTT
ACTCGCTACCTGCAGGAACGGGAGCAGCGCCTTCTGCTCATGTTTCACAGCCTTGACCGGAACCAAGATG
GTCACATAGATGTCTCTGAGATTC AACAGAGCTTCCGAGCACTAGGTATCTCCATCTCACTGGAGCAAGC
AGAGAAAATCCTACACAGCATGGACCGCATGGCACCATGACCATTGATTGGCAGGAATGGCGAGACCAC
TTTCTGTGCACTCTCTGGAGAACGTGGAGGATGCTCTGATTTCTGGAAGCATTCTACAGTCTGGACA
TCGGTGAATGCCTGACGGTGCCTGATGAGTTCTCCAGGAAGAGAACTTACAGGAATGTGGTGGAAACA
GCTGGTGGCTGGTGCAGTGGCTGGCGTGTGTCACGGACAGGCACAGCTCCTCTGGACCGACTCAAGGTA
TTCATGCAGTCCACGCCTCAAAGTCAAACCGGCTTAACATTCTAGGGGGCTGAGAAAACATGATTCAAG
AAGGGGTGTCTTGTCCCTCTGGCGGGCAACGGCATCAACGTGCTCAAGATAGCCCCGAGTCTGCCAT
CAAATTCATGGCTTATGAACAGATCAAGCGGGCCATCCGGGGCAACAGGAGACTGCACGTTCCAGGAG
CGCTTCGTGGCTGGTTCCTGGCCGGGGCCACAGCTCAAACCATCATATACCCCATGGAGGTAATAAGA
CTCGGCTGACTCTACGCAGAAGTGGCAATACAAGGGGCTCCTGGATTGTGCAAAGCGGATCTTAGAACG
TGAAGGGCCCCGCGCCTTCTACCGTGGCTACCTGCCTAATGTGCTGGGCATCATCCCTATGCAGGAATC
GACCTAGCTGTCTACGAGACCTGAAGAATCGCTGGCTTACAGCAGTACAGCCACGAATCCGCTAACCCAG
GCATTCTCGTGCCTTAGGCTGTGGCACCATCTCCAGCACCTGTGGCCAGATTGCCAGTTACCCCTGGC
ACTGGTCCGTACCGAATGCAGGCCAAGCCTCCATTGAGGGTGGCCCGCAGGTCTCCATGGTGGGTCTA
CTTCGACACATCTGTCCAGGAGGGTGTATGGGGCTCTACCGGGCATTGCCCCAACTTCATGAAGG
TCATTCCAGCGTGAGCATCTCTACGTGGTCTACGAGAACATGAAGCAGGCTCTGGGGTACATCCAG
GTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_025877

Insert Size: 1404 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_025877.4](#), [NP_080153.2](#)

RefSeq Size: 3376 bp

RefSeq ORF: 1404 bp

Locus ID: 66972

UniProt ID: [Q6GQS1](#)

Cytogenetics: 17 D

Gene Summary: Calcium-dependent mitochondrial solute carrier. Mitochondrial solute carriers shuttle metabolites, nucleotides, and cofactors through the mitochondrial inner membrane. May act as a ATP-Mg/Pi exchanger that mediates the transport of Mg-ATP in exchange for phosphate, catalyzing the net uptake or efflux of adenine nucleotides into or from the mitochondria. Acts as a regulator of mitochondrial calcium uptake via interaction with MCU and MICU1. [UniProtKB/Swiss-Prot Function]