

Product datasheet for **MR218451**

Slc25a18 (NM_001081048) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a18 (NM_001081048) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc25a18
Synonyms:	1500015I14Rik; AW125787
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218451 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGATCGCCTGCAGGATGTCCAGCCAGGACCTGAGCATCTCCGAAAACATCAATGGAGGTATAGCAG
GTCTTGTGGGGTGACCTGCGTGTTCCTTCCATTGACCTTGCCAAGACCCGACTACAGAACCAGCAGGGGAA
AGATGTGTACAGAGGAATGACAGATTGCCTGATGAAGACTGCACGTGCTGAGGGCTTCTGGGCATGTAC
CGAGGGGCTGCAGTAAACCTCACCTGGTCACTCCAGAGAAGGCAATCAAGCTGGCAGCCAATGACTTCT
TGCGGCAGCTGCTCATGCAAGATGGGACGACGCGAACCTGAAGATGGAGATGCTGGCCGGGTGTGGGGC
TGGAAATATGCCAGGTGGTGATTACCTGTCCCATGGAAATGCTCAAGATTAGCTGCAGGATGCTGGCCGC
TTAGCTGTCTGTATCAGGCTTCTGCCTCAGCCACACCCACCTCCCGGCCCTACAGCACTGGCTCGACTT
CCACCCACAGGCGCCATCGGCCACCTCATTGCCCGGAGCTGCTCCGCACTCAGGGCCTCTCTGGTCT
CTACAGGGGCTGGGTGCCACGCTCCTCAGGGACATTCCCTTCTCCATCATCTACTTCCCTTTGTTTGCA
AACCTGAACCAACTCGGAGTCAGCGAGCTACCGGCAAGGCCTCCTTACACACTCCTTTGTAGCAGGCT
GCACAGCAGGTTCTGTGGCAGCGGTAGCCGTACCCCTCTGGATGTTCTGAAGACTCGAATTCAGACCT
CAAGAAAGGCTGGGTGAGGACCTACAGCGGAGTCACTGACTGTGCCAGGAAGCTCTGGACACAGGAG
GGGCCAGCAGCTTCATGAAAGGAGCAGGCTGCCGTGCCCTGGTCATAGCCCCCTCTTTGGGATCGCCC
AGGGCGTCTACTTCATTGGCATCGGAGAGCGCATCTTGAAGTGCTTTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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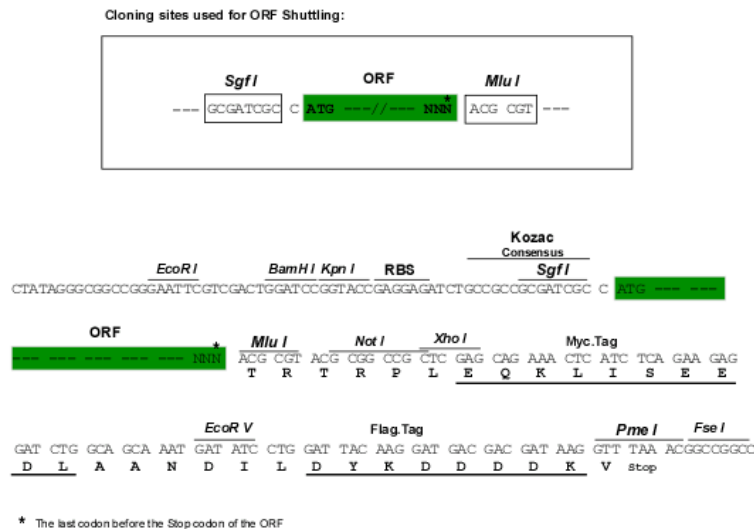
Protein Sequence: >MR218451 protein sequence
 Red=Cloning site Green=Tags(s)

MIACRMSSQDLISAKLINGGIAGLVGVTCVFPIDLAKTRLQNQQGKDVYRGMTDCLMKTARAEGFLGMY
 RGAAVNLTIVTPEKAIKLAANDFLRQLMQDGTQRNLKMEMLAGCGAGICQVVITCPMEMLKIQDAGR
 LAVCHQASASATPTSRPYSTGSTSTHRRPSATLIARELLRTQGLSGLYRGLGATLLRDIPFSIIYFPLFA
 NLNQLGVSELTGKASFTHSFVAGCTAGSVAAVAVTPLDVLKTRIQTLKKGLGEDTYSGVTDCAKRLWTQE
 GPAAFMKGAGCRALVIAPLFGIAQGVYFIGIGERILKCFE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081048

ORF Size: 960 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001081048.2](#), [NP_001074517.1](#)

RefSeq Size: 1367 bp

RefSeq ORF: 963 bp

Locus ID: 71803

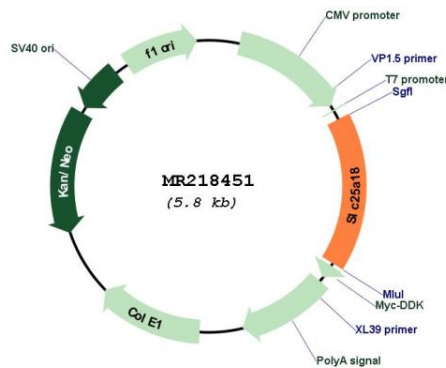
UniProt ID: [Q9DB41](#)

Cytogenetics: 6 57.0 cM

MW: 34.2 kDa

Gene Summary: Involved in the transport of glutamate across the inner mitochondrial membrane. Glutamate is cotransported with H⁽⁺⁾ (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218451