

Product datasheet for MR205639

Slc25a25 (BC019978) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a25 (BC019978) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc25a25
Synonyms:	MGC36388, MCSC, mKIAA1896
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205639 representing BC019978 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGTCCCTGCGGGACCTGGGTGTCAAGATCTCGAACAGCAGGCGGAGAAGATTCTTAAGAGCATGG
ATAAGAATGGCACGATGACCATCGACTGGAACGAGTGGAGGGACTACCACCTCTGCACCCTGTGGAGAA
CATCCCGAGATCATCTGTACTGGAAGCACTCGACGATCTTCGATGTCGGTGAGAATCTGACAGTCCCA
GATGAGTTCACAGTGGAGGAGAGGCAGACGGGGATGTGGTGGAGGCACCTGGTGGCAGGAGGTGGGGCAG
GGGCAGTTTCCAGAACCTGCACTGCCCCCTGGACAGACTGAAGGTGCTCATGCAGTCCATGCCTCCCG
CAGCAACAACATGTGCATCGTAGGTGGATTACACAGATGATTGAGAAGGGGGAGCCAAGTCACTCTGG
CGGGGCAACGGCATCAATGTCCTCAAAATTGCCCTGAGTCGGCCATCAAATTCATGGCATATGAGCAGA
TGAAACGGCTTGTGGTAGTGATCAGGAGACGCTGAGGATCCACGAAAGGCTTGTGGCAGGCTCCTTGGC
CGGAGCCATTGCCAGAGTAGCATCTACCCAATGGAGGTTCTGAAGACCCGAATGGCCCTGCGGAAAACA
GGACAGTACTCCGGCATGCTGGACTGTGCCAGGAGGATCTTGGCTAAAGAGGGTGTAGCTGCCTTCTACA
AAGGCTACATCCCAACATGCTGGGGATCATCCCTATGCTGGCATCGACCTAGCTGTCTATGAGACATT
GAAAAATACCTGGCTCCAGCGCTACGCAGTAAACAGTGCAGACCCCGGTGTGTTCTGCTCCTGGCCTGT
GGTACTATCTCCAGTACTTGTGGCCAGCTGGCCAGTACCCACTAGCCCTGGTCAGGACCCGGATGCAGG
CACAAGCCTCCATTGAGGGCGCACCTGAGGTAACCATGAGCAGCCTCTTCAAACAGATTCTGCGGACTGA
GGGGGCTTTGGGCTCTACCGGGGCTGGCCCCAACTTCATGAAGGTGATCCCGCTGTGAGCATCAGC
TACGTGCTACGAAAACCTGAAGATCACCTGGGCGTGCAGTCTCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205639 representing BC019978
Red=Cloning site Green=Tags(s)

MQSLRDLGVKISEQQAEEKILKSMDKNGTMTIDWNEWRDYHLLHPVENIPEIILYWKHSTIFDVGENLTVP
 DEFTVEERQTGMWWRHLVAGGGAGAVSRCTAPLDRKVLMLQVHASRSNNMCIVGGFTQMIREGGAKSLW
 RGNGINVLKIAPESAIKFMAYEQMKRLVGSDDQETLRIHERLVAGSLAGIAQSSIYPMEVLKTRMALRKT
 GQYSGMLDCARRILAKEGVAAFYKGYIPNMLGIIPYAGIDLAVYETLKNLWLRQYAVNSADPGVFVLLAC
 GTISSTCGQLASYPLALVRTRMQAASIEGAPEVTMSSLFKQILRTEGAFGLYRGLAPNFMKVIPAVSIS
 YVYYENLKITLGVQSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC019978

ORF Size: 1098 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: [BC019978.1](#)

RefSeq Size: 2555 bp

RefSeq ORF: 1100 bp

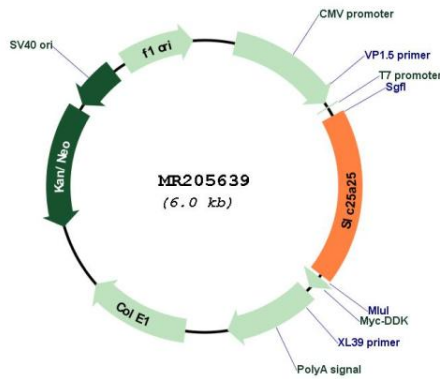
Locus ID: 227731

Cytogenetics: 2 B

MW: 93.6 kDa

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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205639