

## Product datasheet for **MR204477**

### Slc25a11 (NM\_024211) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a11 (NM_024211) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc25a11
Synonyms:	2oxoc; 2310022P18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204477 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCACGGCGAGTCCTGGGGCTGGCCGGATGGACGGGAAACCCGTACCTCCCCTAAGTCTGTCA  
AGTTCCTGTTGGGGGCTGGCTGGGATGGGTGCTACAGTCTTTGTGCAGCCCTGGACCTGGTGAAGAA  
CCGGATGCAGTTGAGTGGTGAAGGGCCAAGACTCGAGAGTACAAAACAGTTTCCATGCCCTCACCAGC  
ATCCTGAAGACAGAAGGCCTGAAGGGCATTACACTGGGCTGTCAGCTGGTCTACTGCGCCAGGCCACCT  
ACACCACTACTCGCCTTGAATATATACTGTGTTGTTGAGCGCCTGACTGGGGCTGATGGTACACCCCT  
TGGCTTCTTCTGAAAGCCCTGATTGGCATGACTGCAGGTGCAACTGGTGCATTTGTGGGACGCCAGCT  
GAGGTGGCTCTCATCAGGATGACTGCTGATGGTGGCTTCCAGCTGACCAGCGCCGTGGTACAAAAATG  
TGTTTAATGCCCTAGTTAGGATTGCCAGGGAAGAAGGAGTCCCCACACTGTGGCGGGGCTGCATCCCTAC  
CATGGCTCGAGCTGTCGTTGTCAATGCCGCCAGCTTGCCTCTTACTCTCAATCTAAGCAGTTCTTGTCTG  
GACTCAGGCTACTTCTGACAATATTCTGCCACTTCTGCGCCAGCATGATCAGTGGCCTCGTTACCA  
CTGCTGCTCCATGCCTGTGGACATCGTCAAACTAGGATCCAGAATATGCGGATGATTGATGGGAAGCC  
AGAATAACAAGAAATGGGCTGGATGTGCTGCTGAAAGTCGTCGCTATGAGGGTTTCTCAGCCTGTGGAAG  
GGCTTACACCATACTATGCCCGACTGGGCCCCACACTGTCTCACCTCATCTTCTTGAACAGATGA  
ACAAGGCTACAAGCGTCTCTTCTCAGTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204477 protein sequence  
 Red=Cloning site Green=Tags(s)

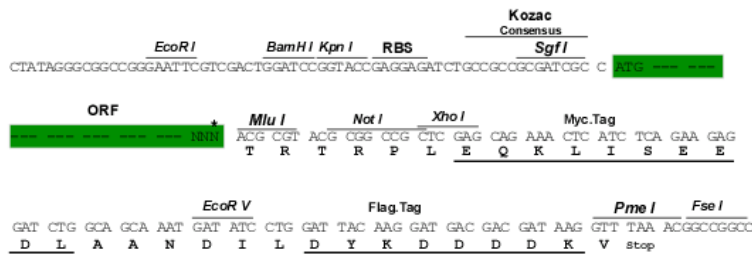
MAATASPGAGRMDGKPRTPSPKSVKFLFGGLAGMGATVFVQPLDLVKNRMQLSGEGAKTREYKTSFHALTS  
 ILKTEGLKGIYTGLSAGLLRQATYTTTTLGIYTVL FERL TGADGTPPGFLLKALIGMTAGATGAFVGT  
 PA EVALIRMTADGRLPADQRRGYKNVFNALVRIAREEGVPTLWRGCCIPTMARAVVVNAAQLASYSQSKQFLL  
 DSGYFSDNILCHF CASMISGLVTTAASMPVDIVKTRIQNMRMIDGKPEYKNGLDVLLKVVRYEGFFSLWK  
 GFTPYARLGPHTVLT FIFLEQMNKAYKRLFLSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_024211

**ORF Size:** 945 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\\_024211.3](#)

**RefSeq Size:** 1869 bp

**RefSeq ORF:** 945 bp

**Locus ID:** 67863

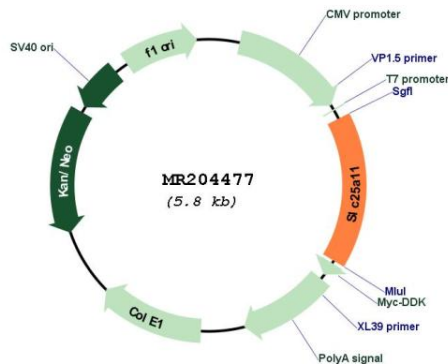
**UniProt ID:** [Q9CR62](#)

**Cytogenetics:** 11 43.21 cM

**MW:** 34.2 kDa

**Gene Summary:** Catalyzes the transport of 2-oxoglutarate across the inner mitochondrial membrane in an electroneutral exchange for malate or other dicarboxylic acids, and plays an important role in several metabolic processes, including the malate-aspartate shuttle, the oxoglutarate/isocitrate shuttle, in gluconeogenesis from lactate, and in nitrogen metabolism (By similarity). Maintains mitochondrial fusion and fission events, and the organization and morphology of cristae (By similarity). Involved in the regulation of apoptosis (PubMed:21448454).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR204477