

Product datasheet for **MG204477**

Slc25a11 (NM_024211) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc25a11 (NM_024211) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Slc25a11
Synonyms: 2oxoc; 2310022P18Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204477 representing NM_024211
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGACGGCGAGTCCTGGGGCTGGCCGGATGGACGGGAAACCCCGTACCTCCCCTAAGTCTGTCA
AGTTCCTGTTGGGGGCCTGGCTGGGATGGGTGCTACAGTCTTTGTGCAGCCCTGGACCTGGTGAAGAA
CCGGATGCAGTTGAGTGGTGAAGGGCCAAGACTCGAGAGTACAAAACCAGTTCCATGCCCTCACCAGC
ATCCTGAAGACAGAAGGCCTGAAGGGCATTACACTGGGCTGTCAGCTGGTCTACTGCGCCAGGCCACCT
ACACCACTACTCGCCTTGAATATATACTGTGTTGTTGAGCGCCTGACTGGGGCTGATGGTACACCCCC
TGGCTTCTTCTGAAAGCCCTGATTGGCATGACTGCAGGTGCAACTGGTGCATTTGTGGGAACGCCAGCT
GAGGTGGCTCTCATCAGGATGACTGCTGATGGTCGGCTTCCAGCTGACCAGCGCCGTGGTACAAAAATG
TGTTTAATGCCCTAGTTAGGATTGCCAGGGAAGAAGGAGTCCCCACACTGTGGCGGGGCTGCATCCCTAC
CATGGCTCGAGCTGTCGTTGTCAATGCCGCCAGCTTGCCTCTTACTCTCAATCTAAGCAGTTCTTGTCTG
GACTCAGGCTACTTCTGACAATATTCTGCCACTTCTGCGCCAGCATGATCAGTGGCCCTCGTTACCA
CTGCTGCTTCCATGCCTGTGGACATCGTCAAACTAGGATCCAGAATATGCGGATGATTGATGGGAAGCC
AGAATAACAAGAAATGGGCTGGATGTGCTGCTGAAAGTCGTCGCTATGAGGGTTTCTTCAAGCTGTGAAG
GGCTTACACCATACTATGCCCGACTGGGCCCCACACTGTCTCACCTCATCTTCTTGAACAGATGA
ACAAGGCCTACAAGCGTCTCTTCTCAGTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204477 representing NM_024211
 Red=Cloning site Green=Tags(s)

MAATASPGAGRMDGKPRTPSPKSVKFLFGGLAGMGATVFVQPLDLVKNRMQLSGEGAKTREYKTSFHALTS
 ILKTEGLKGIYTGLSAGLLRQATYTTTTLGIYTVL FERLTGADGTPPGFLLKALIGMTAGATGAFVGT
 PA EVALIRMTADGRLPADQRRGYKNVFNALVRIAREEGVPTLWRGCIPTMARAVVVNAAQLASYSQSKQFLL
 DSGYFSDNILCHFACSMISGLVTTAASMPVDIVKTRIQNMRMIDGKPEYKNGLDVLLKVVRYEGFFSLWK
 GFTPYARLGPHTVLTFFIFLEQMNKAYKRLFLSG

TRTRPLE - GFP Tag - V

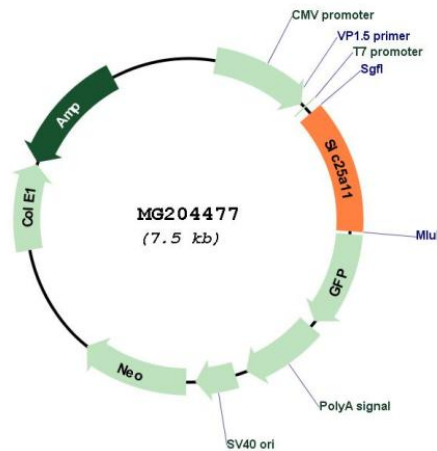
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_024211

ORF Size: 942 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:	<ol style="list-style-type: none">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:	1652 bp
RefSeq ORF:	945 bp
Locus ID:	67863
UniProt ID:	Q9CR62
Cytogenetics:	11 43.21 cM
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]