

## Product datasheet for **MG205639**

### Slc25a25 (BC019978) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a25 (BC019978) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc25a25
Synonyms:	MGC36388, MCSC, mKIAA1896
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205639 representing BC019978 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGTCCCTGCGGGACCTGGGTGTCAAGATCTCGAACAGCAGGCGGAGAAGATTCTTAAGAGCATGG  
ATAAGAATGGCACGATGACCATCGACTGGAACGAGTGGAGGGACTACCACCTCTGCACCCTGTGGAGAA  
CATCCCGGAGATCATCTGTACTGGAAGCACTCGACGATCTTCGATGTCGGTGAGAATCTGACAGTCCCA  
GATGAGTTCACAGTGGAGGAGAGGCAGACGGGGATGTGGTGGAGGCACCTGGTGGCAGGAGGTGGGGCAG  
GGGCAGTTTCCAGAACCTGCACTGCCCCCTGGACAGACTGAAGGTGCTCATGCAGTCCATGCCTCCCG  
CAGCAACAACATGTGCATCGTAGGTGGATTACACAGATGATTGAGAAGGGGGAGCCAAGTCACTCTGG  
CGGGGCAACGGCATCAATGTCCTCAAAATTGCCCTGAGTCGGCCATCAAATTCATGGCATATGAGCAGA  
TGAAACGGCTTGTGGTAGTGATCAGGAGACGCTGAGGATCCACGAAAGGCTTGTGGCAGGCTCCTTGGC  
CGGAGCCATTGCCAGAGTAGCATCTACCAATGGAGGTTCTGAAGACCCGAATGGCCCTGCGGAAAACA  
GGACAGTACTCCGGCATGCTGGACTGTGCCAGGAGGATCTTGGCTAAAGAGGGTGTAGCTGCCTTCTACA  
AAGGCTACATCCCAACATGCTGGGGATCATCCCTATGCTGGCATCGACCTAGCTGTCTATGAGACATT  
GAAAAATACCTGGCTCCAGCGCTACGCAGTAAACAGTGCAGACCCCGGTGTGTTCTGCTCCTGGCCTGT  
GGTACTATCTCCAGTACTTGTGGCCAGCTGGCCAGTACCCACTAGCCCTGGTCAGGACCCGGATGCAGG  
CACAAGCCTCCATTGAGGGCGCACCTGAGGTAACCATGAGCAGCCTCTTCAAACAGATTCTGCGGACTGA  
GGGGGCTTTGGGCTCTACCGGGGGCTGGCCCCAACTTCATGAAGGTGATCCCGCTGTGAGCATCAGC  
TACGTGCTACGAAAACCTGAAGATCACCTGGGCGTGCAGTCTCGG

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205639 representing BC019978  
 Red=Cloning site Green=Tags(s)

MQSLRDLGVKISEQQAEEKILKSMKNGTMTIDWNEWRDYHLLHPVENIPEIILYWKHSTIFDVGENLTVP  
 DEFTVEERQTGMWWRHLVAGGGAGAVSRCTAPLDRKLVLMQVHASRSNNMCIVGGFTQMIREGGAKSLW  
 RGNGINVLKIAPESAIKFMAYEQMKRLVGSQDETLEIRHERLVAGSLAGAIQSSIYPMEVLKTRMALRKT  
 GQYSGMLDCARRILAKEGVAAFYKGYIPNMLGIIPYAGIDLAVYETLKNLWLRQYAVNSADPGVFLVLLAC  
 GTISSTCGQLASYPLALVRTRMQAASIEGAPEVTMSSLFKQILRTEGAFGLYRGLAPNFMKVIPAVSIS  
 YVYYENLKITLGVQSR

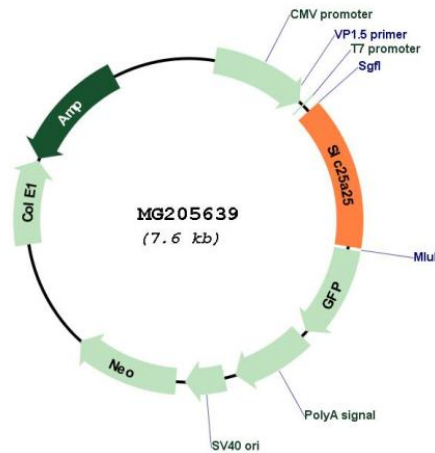
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC019978

<b>ORF Size:</b>	1098 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC019978.1</a>
<b>RefSeq Size:</b>	2555 bp
<b>RefSeq ORF:</b>	1100 bp
<b>Locus ID:</b>	227731
<b>Cytogenetics:</b>	2 B
<b>Gene Summary:</b>	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]