

## Product datasheet for **MR230067**

### Slc25a25 (NM\_001290558) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a25 (NM_001290558) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc25a25
Synonyms:	1110030N17Rik; MCSC; mKIAA1896
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR230067 representing NM\_001290558  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCTGCCTGTGCCTGTATGTGCCCATCGCCGGGGCGGCTCAGACTGAGTTCAGTACTTTGAGTCCA  
 AGGGGTTCTCTGCCGAGCTGAAAATCCATCTTCAAACACTAGTGTCTTTATCCCCTCTCAAGAGTTCTCCAC  
 ATACCGCCAATGGAAGCAGAAAATTGTGAAGCAGGTGACAAGGACCTTGATGGGCAACTGGACTTTGAA  
 GAGTTTGTACATTACCTCCAAGATCATGAGAAAAAAGTGGGCTGGTGTCAAGAGTCTGGACAAAAAGA  
 ATGATGGTCAATCGATGCTCAGGAGATCATGCAGTCCCTGCGGGACCTGGGTGTCAAGTCTCGGAACA  
 GCAGGCGGAGAAGATTCTTAAGAGCATGGATAAGAATGGCAGATGACCATCGACTGGAACGAGTGGAGG  
 GACTACCACCTCTGCACCCTGTGGAGAACATCCCGGAGATCATCTGTACTGGAAGCACTCGACGATCT  
 TCGATGTCGGTGAGAATCTGACAGTCCCAGATGAGTTCACAGTGGAGGAGAGGCAGACGGGGATGTGGT  
 GAGGCACCTGGTGGCAGGAGGTGGGGCAGGGGCAGTTTCCAGAACCTGCACTGCCCCCTGGACAGACTG  
 AAGGTGCTCATGCAGTCCATGCCTCCCGCAGCAACAACATGTGCATCGTAGGTGGATTCACACAGATGA  
 TTCGAGAAGGGGAGCCAAGTCACTCTGGCGGGCAACGGCATCAATGTCTCAAATGGCCCTGAGTC  
 GGCCATCAAATTCATGGCATATGAGCAGATGAAACGGCTTGTCCGTTAGTATCAGGAGACGCTGAGGATC  
 CACGAAAGGCTTGTGGCAGGCTCCTTGGCCGAGCCATTGCCAGAGTAGCATCTACCCAATGGAGGTTT  
 TGAAGACCCGAATGGCCCTGCGGAAAACAGGACAGTACTCCGGCATGCTGGACTGTGCCAGGAGGATCTT  
 GGCTAAGAGGGTGTAGCTGCCTTCTACAAAGGCTACATCCCAACATGCTGGGGATCATCCCCTATGCT  
 GGCATCGACCTAGCTGTCTATGAGACATTGAAAAATACCTGGCTCCAGCGCTACGCAGTAAACAGTGCAG  
 ACCCCGGTGTGTCGTGCTCCTGGCTGTGGTACTACTCCAGTACTTGTGGCCAGTGGCCAGCTACCC  
 ACTAGCCCTGGTCAGGACCCGGATGCAGGCACAAGCCTCCATTGAGGGCGCACCTGAGGTAACCATGAGC  
 AGCCTTCTCAAACAGATTCTGCGGACTGAGGGGGCCTTTGGGCTCTACCGGGGCTGGCCCCCAACTTCA  
 TGAAGGTGATCCCGGCTGTGAGCATCAGCTACGTGGTCTACGAAAACCTGAAGATCACCTGGGCGTGCA  
 GTCTCGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230067 representing NM\_001290558  
 Red=Cloning site Green=Tags(s)

MLCLCLYVPIAGAAQTEFQYFESKGLPAELKSIFKLSVFIQSFSTYRQWKQKIVQAGDKLDLQGLDFE  
 EFVHYLQDHEKKLRLVFKSLDKKNDGRIDAQEIMQSLRDLGVKISEQQAELKLSMDKNGTMTIDWNEW  
 DYHLLHPVENIPEIILYWKHSTIFDVGENLTVPDEFTVEERQTMWWRHLVAGGGAGAVSRTCTAPLDRL  
 KVLMLQVHASRSNNMCI VGGFTQMIREGGAKSLWRGNGINVLKIAPESAIKFMAYEQMKRLVGSQDQETLRI  
 HERLVAGSLAGIAQSSIYPMEVLKTRMALRKTGQYSGMLDCARRILAKEGVAAFYKGYIPNMLGIIPYA  
 GIDLAVYETLKNTWLQRYAVNSADPGVFVLLACGTISSTCGQLASYPLALVRTRMQAQASIEGAPEVTMS  
 SLFKQILRTEGAFGLYRGLAPNFMKVIPAVSISYVVYENLKITLGVQSR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

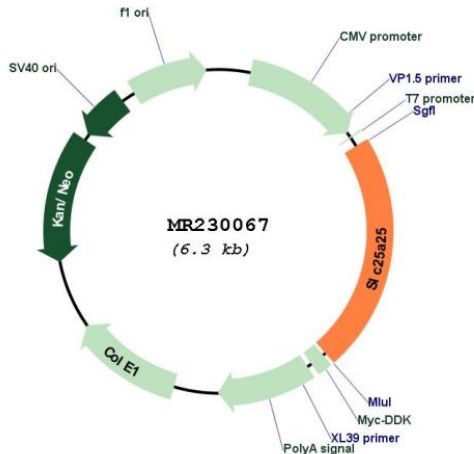
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001290558

ORF Size: 1407 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).

<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>	<u>NM_001290558.1, NP_001277487.1</u>
<b>RefSeq Size:</b>	3195 bp
<b>RefSeq ORF:</b>	1410 bp
<b>Locus ID:</b>	227731
<b>UniProt ID:</b>	<u>A2ASZ8</u>
<b>Cytogenetics:</b>	2 B
<b>MW:</b>	53.1 kDa
<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]