

## Product datasheet for **MR219173**

### Slc25a25 (NM\_001164357) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a25 (NM_001164357) 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:**

>MR219173 representing NM\_001164357  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGAGCAGTGTGTTGTGCCGTGCGTGGCCTCCCCGCGCCGGACGCCGCCACCGCCTCGTCGT  
 CCGCCTCGTCGCCGGCTTCTGTAGGGGACCCGTGCGGCGGCGCCGTCTGTGGCGGCCCGACCACAGCT  
 ACGCCTGTGGAGCCTCTTCCAGACACTCGACGTCAACCGCGACGCGGCCCTGTGTGTCAACGACCTGGCG  
 GTGGGGTGTGCGCGCCTGGGACTGCACCGCACGGAGGGCGAGCTCCGAAAAATTGTGCAAGCAGGTGACA  
 AGGACCTTGATGGGCAACTGGACTTTGAAGAGTTTGTACATTACCTCCAAGATCATGAGAAAAACTGAG  
 GCTGGTGTCAAGAGTCTGGACAAAAAGAATGATGGTGAATCGATGCTCAGGAGATCATGCAGTCCCTG  
 CGGGACCTGGGTGTCAAGATCTCGAACACGACGGCGAGAAGATTCTTAAGAGCATGGATAAGAATGGCA  
 CGATGACCATCGACTGGAACGAGTGGAGGGACTACCACCTCTGCACCCTGTGGAGAATATCCCGGAGAT  
 CATCCTGTACTGGAAGCACTCGACGATCTTCGATGTCGGTGAATCTGACAGTCCAGATGAGTTCACA  
 GTGGAGGAGAGGACAGCGGGATGTGGTGGAGGCACTGGTGGCAGGAGGTGGGGCAGGGCAGTTCCA  
 GAACCTGCACTGCCCCCTGGACAGACTGAAGGTGCTCATGCAGGTCCATGCCTCCCGCAGCAACAACAT  
 GTGCATCGTAGGTGGATTACACAGATGATTCGAGAAGGGGGAGCCAAGTCACTCTGGCGGGCAACGGC  
 ATCAATGTCTCAAAATTGCCCTGAGTCGGCCATCAAATTCATGGCATAATGAGCAGATGAAACGGCTTG  
 TCGGTAGTGATCAGGAGACGCTGAGGATCCACGAAAGGCTTGTGGCAGGCTCCTTGGCCGGAGCCATTGC  
 CCAGAGTAGCATCTACCAATGGAGTTCTGAAGACCCGAATGCCCTGCCGAAAACAGGACAGTACTCC  
 GGCATGCTGGACTGTGCCAGGAGGATCTGGCTAAAGAGGGTGTAGTGCCTTCTACAAAGGCTACATCC  
 CCAACATGCTGGGATCATCCCCATGCTGGCATCGACCTAGCTGTCTATGAGACATGAAAAATACCTG  
 GCTCCAGCGCTACGCAGTAAACAGTGCAGACCCGGTGTGTTCTGTGCTCCTGGCCTGTGGTACTATCTCC  
 AGTACTTGTGGCCAGCTGGCCAGCTACCCACTAGCCCTGGTCAGGACCCGGATGCAGGCACAAGCCTCCA  
 TTGAGGGCGCACCTGAGGTAACCATGAGCAGCCTCTTCAAACAGATTCTGCGGACTGAGGGGGCCTTTGG  
 GCTCTACCGGGGCTGGCCCCAACTTCATGAAGGTGATCCCGGCTGTGAGCATCAGCTACGTGGTCTAC  
 GAAAACCTGAAGATCACCTGGGCGTGCAGTCTCGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR219173 representing NM\_001164357  
 Red=Cloning site Green=Tags(s)

MVSSVLCRCVASPPPDAATASSSASSPASVGDPCGGAVCGGPDHQLRLWSLFQTLDVNRDGGGLCVNDLA  
 VGLRRLGLHRTEGELRKIVQAGDKLDGQLDFEEFVHYLQDHEKKLRLVFKSLDKKNDGRIDAQEIIMQSL  
 RDLGVKISEQQAEEKILKSMKNGTMTIDWNEWRDYHLLHPVENIPEIILYWKHSTIFDVGENLTPDEFT  
 VEERQTMWWRHLVAGGGAGAVSRTCTAPLDRLKVLMOVHASRSNNMCI VGGFTQMIREGGAKSLWRGNG  
 INVLKIAPESAIFMAYEQMKRLVGSQDQETLRIHERLVAGSLAGAIQSSIYPMEVLKTRMALRKTGQYS  
 GMLDCARRILAKEGVAAFYKGYIPNMLGIIPYAGIDLAVYETLKNLWLRQYAVNSADPGVFVLLACGTIS  
 STCGQLASYPLALVTRMQAQASIEGAPEVTMSSLFKQILRTEGAFGLYRGLAPNFMKVIPAVSISYVVY  
 ENLKITLGVQSR

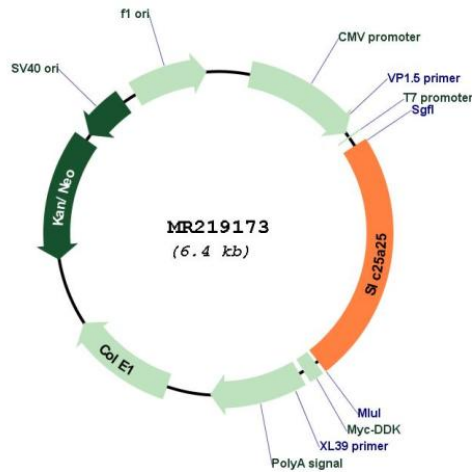
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



Plasmid Map:



ACCN: NM\_001164357

ORF Size: 1506 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\\_001164357.1](#), [NP\\_001157829.1](#)

**RefSeq Size:** 3323 bp

**RefSeq ORF:** 1509 bp

**Locus ID:** 227731

**UniProt ID:** [A2ASZ8](#)

**Cytogenetics:** 2 B

**MW:** 55.7 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]