

## Product datasheet for **MG219173**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a25 (NM_001164357) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc25a25
Synonyms:	1110030N17Rik; MCSC; mKIAA1896
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG219173 representing NM\_001164357  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGAGCAGTGTGTTGTGCCGTGCGTGGCCTCCCCGCGCCGGACGCCGCCACCGCTCGTCGT  
 CCGCCTCGTCGCCGGCTTCTGTAGGGGACCCGTGCGGCGGCGCCGTCTGTGGCGGCCGGACCACAGCT  
 ACGCCTGTGGAGCCTCTTCCAGACACTCGACGTCAACCGCGACGCGGCCCTGTGTGTCAACGACCTGGCG  
 GTGGGGCTGCGGCGCCTGGGACTGCACCGCACGGAGGGCGAGCTCCGAAAAATTGTGCAAGCAGGTGACA  
 AGGACCTTGATGGGCAACTGGACTTTGAAGAGTTGTACATTACCTCCAAGATCATGAGAAAAAAGTGA  
 GCTGGTGTCAAGAGTCTGGACAAAAAGAATGATGGTGAATCGATGCTCAGGAGATCATGCAGTCCCTG  
 CGGACCTGGGTGTCAAGATCTCGAACAGCAGGCGGAGAAGATTCTTAAGAGCATGGATAAGAATGGCA  
 CGATGACCATCGACTGGAACGAGTGGAGGGACTACCACCTCTGCACCCTGTGGAGAACATCCCGGAGAT  
 CATCCTGTACTGGAAGCACTCGACGATCTTCGATGTCGGTGAATCTGACAGTCCAGATGAGTTCACA  
 GTGGAGGAGAGGACAGCGGGATGTGGTGGAGGCACTGGTGGCAGGAGGTGGGGCAGGGGAGTTCCA  
 GAACCTGCACTGCCCCCTGGACAGACTGAAGGTGCTCATGCAGGTCCATGCCTCCCGCAGCAACAACAT  
 GTGCATCGTAGGTGGATTACACAGATGATTCGAGAAGGGGGAGCCAAGTCACTCTGGCGGGCAACGGC  
 ATCAATGTCTCAAAATTGCCCTGAGTCGGCCATCAAATTCATGGCATAATGAGCAGATGAAACGGCTTG  
 TCGGTAGTGATCAGGAGACGCTGAGGATCCACGAAAGGCTTGTGGCAGGCTCCTTGGCCGGAGCCATTGC  
 CCAGAGTAGCATCTACCAATGGAGTCTGAAGACCCGAATGCCCTGCGGAAAACAGGACAGTACTCC  
 GGCATGCTGGACTGTGCCAGGAGGATCTTGGCTAAAGAGGGTGTAGTGCCTTCTACAAAGGCTACATCC  
 CCAACATGCTGGGATCATCCCCATGCTGGCATCGACCTAGCTGTCTATGAGACATTGAAAAATACCTG  
 GCTCCAGCGCTACGCAGTAAACAGTGCAGACCCCGGTGTGTTCGTGCTCCTGGCCTGTGGTACTATCTCC  
 AGTACTTGTGGCCAGCTGGCCAGCTACCACTAGCCCTGGTCAGGACCCGGATGCAGGCACAAGCCTCCA  
 TTGAGGGCGCACCTGAGGTAACCATGAGCAGCCTCTTCAAACAGATTCTGCGGACTGAGGGGGCCTTTGG  
 GCTCTACCGGGGCTGGCCCCAACTTCATGAAGGTGATCCCGGCTGTGAGCATCAGCTACGTGCTCTAC  
 GAAAACCTGAAGATCACCTGGGCGTGCAGTCTCGG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG219173 representing NM\_001164357  
 Red=Cloning site Green=Tags(s)

MVSSVLCRCVASPPPDAATASSSASSPASVGDPCGGAVCGGPDHQLRLWSLFQTLDVNRDGGLCVNDLA  
 VGLRRLGLHRTEGELRKIVQAGDKLDGQLDFEEFVHYLQDHEKKLRLVFKSLDKKNDGRIDAQEIIMQSL  
 RDLGVKISEQQAELKILKSMKNGTMTIDWNEWRDYHLLHPVENIPEIILYWKHSTIFDVGENLTPDEFT  
 VEERQTMWWRHLVAGGGAGAVSRTCTAPLDRKVLMMQVHASRSNNMCI VGGFTQMIREGGAASLWRGNG  
 INVLKIAPESAIKFMAYEQMKRLVGSQETLRIHERLVAGSLAGAIQSSIYPMEVLKTRMALRKTGQYS  
 GMLDCARRILAKEGVAIFYKGYIPNMLGIIPYAGIDLAVYETLKNLWLRQYAVNSADPGVFVLLACGTIS  
 STCGQLASYPLALVRTRMQAQASIEGAPEVTMSSSLFKQILRTEGAFGLYRGLAPNFMKVIPAVSISYVVVY  
 ENLKITLGVQSR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



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

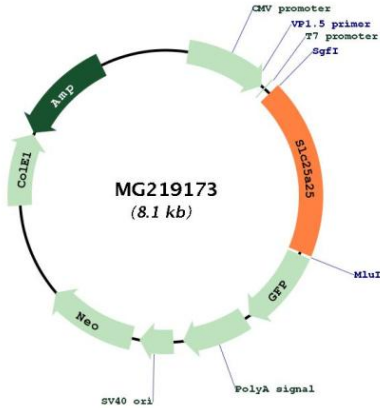
UniProt ID: [A2ASZ8](#)

Cytogenetics: 2 B

**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]

**Product images:**



Circular map for MG219173