

## Product datasheet for MR219651

### Slc25a22 (NM\_026646) Mouse Tagged ORF Clone

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | Slc25a22 (NM_026646) Mouse Tagged ORF Clone                                 |
| Tag:                      | Myc-DDK                                                                     |
| Symbol:                   | Slc25a22                                                                    |
| Synonyms:                 | 1300006L01Rik; AI060884; Gc1                                                |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-Entry (PS100001)                                                      |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                        |
| ORF Nucleotide Sequence:  | >MR219651 representing NM_026646<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGATAAGCAGATCAGCCTGCCGGCCAAGCTCATCAATGGTGGCATCGCTGGGCTAATCGGGGTCA  
CCTGCGTGTTCCCATCGACCTGGCTAAGACACGGCTGCAGAACCAGCAGAATGGCCAGCGCATGTATGC  
CAGCATGTCTGATTGCCTCATCAAGACCATCCGCTCCGAGGGCTACTTCGGCATGTATAGGGGAGCAGCA  
GTAACCTGACCCTGGTCACCCCGGAGAAGGCCATCAAGTTGGCAGCTAATGACTTCTTCAGACACCAGC  
TCTCTAAGGATGGACAGAAGCTGACCTTGCTAAGGAGATGCTGGCAGGCTGCGGGCCGGCACCTGCCA  
GGTGATTGTGACCACCCCATGGAGATGCTGAAGATCCAGTTGCAAGATGCAGGCCGATTGCTGCTCAG  
AGGAAGATTCTGGCTGCCAGGCTCAGCTCTCAGCCAGGGAGGTGCCAGCCCTCGGTAGAGGCTCCAG  
CCCCTCCTCGGCCACGGCCACCCAGCTGACCCGTGACCTGCTGCGGAATCATGGCATTGCTGGCCTCTA  
CAAGGGACTGGGGCCACGCTACTCAGGGATGTTCCCTTCTCCATTGTCTACTTCCCCTGTTTGCCAAC  
CTGAATCAGCTGGGCCGCCATCCTCTGAGGAGAAGTCGCTTTCTATGTGCTCCTAGCAGGCTGCG  
TGGCTGGGAGTGCAGCCGCTGTGGCCGTAACCCTTGTGATGTGGTGAAGACTCGGCTCCAGTCCCTTGA  
GAGAGGTGTTAATGAGGACACTTACTCTGGGTTTCTGGACTGTGCAAGGAAGATCTGGAGACATGAAGT  
CCCTCAGCCTTCTGAAAGGCGCATACTGCCGTGCGCTGGTATTGCCCGCTGTTTGGCATCGCCAGG  
TGGTCTACTTTCTGGGCATTGCCGAGTCCCTGCTGGGGCTGCTGCAAGAACCAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR219651 representing NM\_026646  
Red=Cloning site Green=Tags(s)

MADKQISLPAKLINGGIAGLIGVTCVFPIDLAKTRLQNQQNGQRMYSMSDCLIKTIRSEGYFGMYRGAA  
 VNLTLVTPKAIKLAANDFFRHQLSKDGQKLTLPKEMLAGCGAGTCQIVITTPMELMKIQLQDAGRIAAQ  
 RKILAAQAQLSAQGGAQPSVEAPAPRPTATQLTRDLLRNHGIAGLYKGLGATLLRDVPFSIVYFPLFAN  
 LNQLGRPSSEKSPFYVSFLAGCVAGSAAAVAVNPCDVVKTRLQSLERGVNEDTYSGFLLDCARKIWRHEG  
 PS AFLK GAYCRALVIAPLFGIAQVYVYFLGIAESLLGLLQEPQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9029\\_c04.zip](https://cdn.origene.com/chromatograms/mm9029_c04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_026646

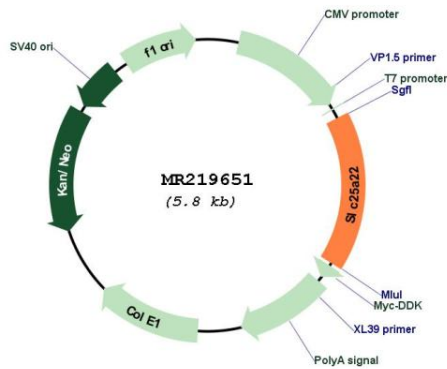
**ORF Size:** 969 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>                | <u><a href="#">NM_026646.3</a></u> , <u><a href="#">NP_080922.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq Size:</b>           | 2805 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 972 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Locus ID:</b>              | 68267                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u><a href="#">Q9D6M3</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 7 F5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MW:</b>                    | 35.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | Involved in the transport of glutamate across the inner mitochondrial membrane. Glutamate is cotransported with H(+) (By similarity).[UniProtKB/Swiss-Prot Function]                                                                                                                                                                                                                                                                                                                                                    |

**Product images:**



Circular map for MR219651