

Product datasheet for **MG204678**

Slc25a22 (NM_026646) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc25a22 (NM_026646) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Slc25a22
Synonyms: 1300006L01Rik; AI060884; Gc1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204678 representing NM_026646
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGATAAGCAGATCAGCCTGCCGGCCAAGCTCATCAATGGTGGCATCGCTGGGCTAATCGGGGTCA
 CCTGCGTGTTCCCATCGACCTGGCTAAGACACGGCTGCAGAACCAGCAGAATGGCCAGCGCATGTATGC
 CAGCATGTCTGATTGCCTCATCAAGACCATCCGCTCCGAGGGCTACTTCGGCATGTATAGGGGAGCAGCA
 GTAACCTGACCCTGGTACCCCGGAGAAGGCCATCAAGTTGGCAGCTAATGACTTCTTCAGACACCAGC
 TCTCTAAGGATGGACAGAAGCTGACCTTGCTAAGGAGATGCTGGCAGGCTGCGGGCCGGCACCTGCCA
 GGTGATTGTGACCACCCCATGGAGATGCTGAAGATCCAGTTGCAAGATGCAGGCCGATTGCTGCTCAG
 AGGAAGATTCTGGCTGCCAGGCTCAGCTCTCAGCCAGGGAGGTGCCAGCCCTCGGTAGAGGCTCCAG
 CCCCTCCTCGGCCACGGCCACCCAGCTGACCCGTGACCTGCTGCGGAATCATGGCATTGCTGGCCTCTA
 CAAGGGACTGGGGCCACGCTACTCAGGGATGTTCCCTTCTCCATTGTCTACTTCCCCTGTTTGCCAAC
 CTGAATCAGCTGGGCCGCCATCCTCTGAGGAGAAGTCGCTTTCTATGTGCTCCTAGCAGGCTGCG
 TGGCTGGGAGTGCAGCCGCTGTGGCCGTAACCCTTGATGTGGTGAAGACTCGGCTCCAGTCCCTTGA
 GAGAGGTGTTAATGAGGACACTACTCTGGGTTTCTGGACTGTGCAAGGAAGATCTGGAGACATGAAGT
 CCCTCAGCCTTCTGAAAGGCGCATACTGCCGTGCGCTGGTATTGCCCGCTGTTTGGCATCGCCAGG
 TGGTCTACTTTCTGGCATTGCCGAGTCCCTGCTGGGGCTGCTGCAAGAACCAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204678 representing NM_026646
 Red=Cloning site Green=Tags(s)

MADKQISLPAKLINGGIAGLIGVTCVFPIDLAKTRLQNQQNGQRMYSMSDCLIKTIRSEGYFGMYRGAA
 VNLTLVPEKAIKLAANDFFRHQLSKDGQKLTLPKEMLAGCGAGTCQIVITTPMEMLKIQLQDAGRIAAQ
 RKILAAQAQLSAQGGAQPSVEAPAPRPTATQLTRDLLRNHGIAGLYKGLGATLLRDVFPFSIVYFPLFAN
 LNQLGRPSSEKSPFYVFLAGCVAGSAAAVAVNPCDVVKTRLQSLERGVNEDTYSGFDCARKIWRHEG
 PS AFLK GAYCRALVIAPLFGIAQVYVYFLGIAESLLG LLQEPQA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_026646

ORF Size: 2802 bp

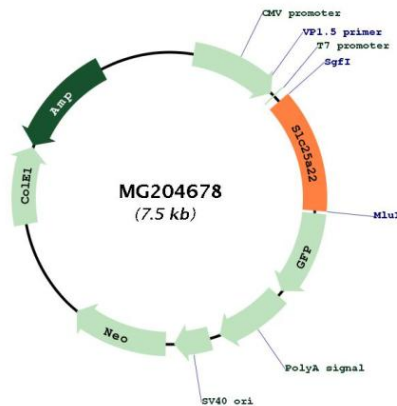
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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](#)

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_026646.3](#), [NP_080922.1](#)
- RefSeq Size:** 2531 bp
- RefSeq ORF:** 972 bp
- Locus ID:** 68267
- UniProt ID:** [Q9D6M3](#)
- Cytogenetics:** 7 F5
- Gene Summary:** 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 MG204678