

Product datasheet for **MC204441**

Slc25a22 (NM_026646) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a22 (NM_026646) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc25a22
Synonyms:	1300006L01Rik; AI060884; Gc1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC037949
 CCACGCGTCCGGTTCCTGGCTGCCTGGGAGGACGCCACGGGGAGGGCATTGAAGTGAATCCAGGTGGCAC
 AAGACTTGAAATTGCTTTGAAGGTGAGGACATCCCCTCCCCACCGCCAGCCACCACCAGCCACCTA
 CATCGTCTCATCAGCCCCTCCCATCAGTGCCTCCACCAACATCACCCGGCCTGACTCCTGTTCACTT
 GGTGTAATGGCTGATAAGCAGATCAGCCTGCCGGCCAAGCTCATCAATGGTGGCATCGCTGGGTAATC
 GGGGTACCTGCGTGTTCATCGACCTGGCTAAGACACGGCTGCAGAACCCAGCAGAATGGCCAGCGCA
 TGTATGCCAGCATGTCTGATTGCCTCATCAAGACCATCCGCTCCGAGGGCTACTTCGGCATGTATAGGGG
 AGCAGCAGTAAACCTGACCCTGGTCACCCCGGAGAAGGCCATCAAGTTGGCAGCTAATGACTTCTTCAGA
 CACCAGCTCTCTAAGGATGGACAGAAGCTGACCTTGCCTAAGGAGATGCTGGCAGGCTGCGGGGCCGGCA
 CCTGCCAGGTGATTGTGACCACCCCATGGAGATGCTGAAGATCCAGTTGCAAGATGCAGGCCGATTGC
 TGCTCAGAGGAAGATTCTGGCTGCCAGGCTCAGCTCTCAGCCAGGGAGGTGCCAGCCCTCGGTAGAG
 GCTCCAGCCCCTCCTCGGCCACGGCCACCCAGCTGACCCGTGACCTGCTGCGGAATCATGGCATTGCTG
 GCCTCTACAAGGGACTGGGGCCACGCTACTCAGGGATGTTCCCTTCTCCATTGTCTACTCCCCCTGTT
 TGCCAACCTGAATCAGCTGGGCCGCCATCCTCTGAGGAGAAGTCGCCTTCTATGTGTCCTTCTAGCA
 GGCTGCGTGGCTGGGAGTGCAGCCGCTGTGGCCGTCAACCCTTGATGTGGTGAAGACTCGGCTCCAGT
 CCCTTGAGAGAGGTGTTAATGAGGACACTACTCTGGGTTTCTGGACTGTGCAAGGAAGATCTGGAGACA
 TGAAAGTCCCTCAGCCTTCTGAAAGGGCATACTGCCGTGCGCTGGTCATTGCCCCGCTGTTTGGCATC
 GCCCAGGTGGTCTACTTCTGGGCATTGCCAGTCCCTGCTGGGGCTGCTGCAAGAACCCAGGCCCTGAG
 CCCATGGCTGTTCTCTCCAGCCTATGGGCAGGGGCCAGAACAGGGTGACCAGCACAAGCCTGAGGAGGA
 GTGGTCTCTCCCCGGTCTCCTCATTAAGATGGGAAGGCAAGGGGAGGGTGCCAGGTCCACATGGGTGAT
 GCACACATAAGCCCCTGTGTGGTCTGAAGGGACAACAATTGGGATCAAGGTCTATTTATGTAGAAAA
 TGCAGAAATCTGTACATTCCTCAAGCCAGTCTGTCCCATCCTTGACCTCAACCCAGTCCCACCTGGCC
 TGAACACCCCATGAGACAGAGCTGGTCTCTGGGCTGGGGCCCCAGGCCGTTTGGGCAGGCAGACCT
 ACCCTGTAGTCCACTGGCTCTGGTCTCTGAGGCTCCTGGTCTACATAGGGGACCCACACACCCAGA
 ATTATTTATTGAATTTTCCGTGCCCATGTGGCTCTCCTGTCTCCGTCCATCAGTCTTGGCCCTGCTGC
 TCTTCCCACCTCATCCAGGACCCCACTCTGCCTCCCCAGCCAGCCTTACAGGAGGCTGGAGGGTCTTAG
 CCTCATGTCAAGCTAGGATTCTAGGCTGGGTATGTTGCCGTAATCAGGTGTCATCCAGGCACCCACA
 CATCCACTTCCCGCTGAGCCTTTGGACCCCACTGTGGGACCCAGGTGCTTGGAGTCTTTGTGTGCC
 TGCGGTGGGCAGTTGCTCCCCACCCCAAGCAGTCACTGGCCAGGCTGCTTAGGATGGGGACCCATAA
 GGGTACAGCTGCCTTTTCCGTGGAGTCAAGCCACCTGTGCTTGTGTGCTTTTGGCTCAGGACTCTT
 CTGCTGACCCCGTCCAATAATTTAGTTCTCCAGCTTGGTACTCTCTGATAGAGCCCTACTCCTGGACA
 GAGATTGCTTTTGGGAGGTGGAGTGGGGCTTGAAGGTCAAGCATGAAGGCCAGTTAGCGTCTGGGCCCT
 CCCAGCTCTCTGGGCTCTGTCCATGTTTGGAAAGCCCCACCCCTACAGCCCTGGATCCTCTGTTAGAA
 TCAAAGCAGCCCTTCCCTGCCCGGCCATGTGATTGTGTTGGTATTGACTGAAGTGTGGTGTGTGT
 CCCTCAAGCCCAACCCCTCCATGGAGGCCCTTCCCAGTGAACCTACCTGGGGCTCCAGTCTGGGCTGC
 CCCTAGTTCACCGTTGCTCCTGGGAGCCACCCCTCCTCTACGTCTGTACCTTGAAGCTGCTGTGCTG
 CTTACAGAATTAATTTTTTCTTTTGAAGAGTTTTAAGAAGTTGTAACTTTTTGTGCTTGTATGTAA
 AAAATAAATAAATATTCTAAATAGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_026646
Insert Size: 972 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](#)

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: [BC037949](#), [AAH37949](#)

RefSeq Size: 2560 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]
 Transcript Variant: This variant (1) encodes the longer isoform (a). Variants 1, 2, and 3 all encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.