

## Product datasheet for **MC205958**

### Slc25a12 (NM\_172436) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a12 (NM_172436) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc25a12
Synonyms:	2610002D09Rik; AI839531; B230107K20Rik; BB129864
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC060505  
 CCGCTTCCGAGCACAGCATGGCGGTCAAGGTGCATACAACCAAACGAGGTGATCCTCATGAGCTGAGAAA  
 CATATTCCTCCAGTATGCCAGCACTGAGGTGGACGGGGAGCATTACATGACTCCAGAAGACTTCGTTCAA  
 CGCTATCTTGGCCTGTACAACGATCAAACAGCAAACCAAAGATTGTGCAGCTCTTGGCAGGAGTAGCTG  
 ATCAAACCAAGGATGGGTTGATCTCCTATCAAGAGTTTTTGGCATTGAACTGTCTATGTGCTCCAGA  
 TTCCATGTTTCATAGTGGCTTTCCAAGTGTGACAAGAGCGGAAATGGAGAGGTGACATTTGAAAATGTC  
 AAGGAGATTTTTGGGCAGACTATTATCCATCACCACATCCCTTTAACTGGGACTGCGAGTTCATCCGGC  
 TGCACTTTGGGCACAACGCAAGAAGCACCTGAACTATGTGGAATTCACACTGATTCTCCAGGAATTGCA  
 ATTGGAACACGCAAGGCAAGCCTTTGCACTGAAAAGACAAGAGCAAAGCGGCATGATCTCGGGTCTGGAT  
 TTCAGTGACGTATGGTACCATCCGGTCCCACATGCTCACTCCTTTTGTGGAGGAGAACCTGGTCTCAG  
 CTGCCGGAGGGGTACCTCACACCAAGTTAGCTTCTCCTACTTCAACGCATTTAACTCCTTACTCAACAA  
 CATGGAGCTTGTTCGAAAGATCTATAGCACTTTAGCAGGCACGAGGAAAGATATTGAAGTACCAAGGAG  
 GAATTTGCCAGAGCGCCATACGCTATGGACAGGTCACCTAGAAAATTGATATCTTGTACCAGCTTG  
 CAGACCTATAATGCCTCAGGGCGCTTACTCTGGCAGACATCGAGAGAATAGCTCCGCTGGCCGAGGG  
 GGCCTTACCTTACAACCTGGCAGAGCTTACAGGCAGCAATCTCCTGGCTTGGGCAGACCTATCTGGCTC  
 CAGATTGCCGAGTCTGCATACAGGTTCACTCTGGGCTCAGTTGCTGGAGCTGTGGGGCCACTGCCGTTG  
 ACCCCATAGACCTGGTGAAGACCCGGATGCAAAACCAGCGTGGTACGGGCTCTGTGGTCCGGGAGCTGAT  
 GTATAAAAACAGCTTCGACTGTTTTAAGAAAGTGTTCGCGTACGAGGGTTTTCTTTGGACTGTACCAGGT  
 CTGATCCACAGCTGATAGGGGTTGCACCAGAAAAAGCCATTAAGCTAACAGTTAATGATTTTGTCCGGG  
 ACAAATTTACAAAAGAGATGGCTCTATCCCACTGCCGGCGGAAATCCTTGTCTGGAGGTTGCGCTGGAGG  
 CTCGCAGGTACATTTACCAACCCTCTGGAGATAGTGAAGATCCGCCTGCAGGTAGCCGGAGAGATCACC  
 ACAGACCGAGAGTCAGTGCTCTGAATGTGCTTACAGACCTGGGACTTTTTCGGGCTGTACAAGGGTGCCA  
 AAGCCTGTTTTCTCCGAGACATTCCTTCTCCGCAATCTATTTTCCCGTGTACGCTCACTGCAAACTCCT  
 CCTGGCTGATGAGAACGGACGCGTGGGAGGCATCAATCTCCTGACAGCGGGAGCCTTGGCAGGCGTACCT  
 GCTGCTTCTCTGGTGACCCTGCTGATGTCATCAAGACAAGACTGCAAGTGGCCGCCAGGGCCGGCCAGA  
 CAACATACAGCGGGTCTCGACTGTTTCCGAAAGATTCTCCGGGAAGAAGGGCCCTCGGCATTTTGAA  
 AGGGACTGCAGCTCGGGTGTTCGATCCTCACCTCAGTTTGGTGTCACTCTGGTTACCTACGAGCTTCTG  
 CAGCGGTGGTTTTACATAGATTTTGGAGGCCTCAAACCTTCTGGCTCAGAACCAACGCCAAAGTCCCGCA  
 TCGCAGACCTCCCTCCTGCCAACCCGATCACATCGGTGGCTACAGACTTGCCACGGCCACTTTCGCTGG  
 CATTGAAAACAAGTTTGGCCTTTACCTCCCAAGTTTAAAGTCTCCTAGCGTAGCTGTGGCTCAGCCCAAG  
 GCGGCAGCAGCAGCCCAATGACATAGCAAGTACAGACCGAGGCCAGGAGAACGGGCGGTACCGTGTCCA  
 GTCAGCTGCATGGTACTGTCAGCGCTGGGGTCAACCACCTTCTATACGACCTATACATGTATTGTTTATA  
 AAGTGATCATAACCCAGGGAGAGCCGAGTGCAGTTTCAAGCTTTAGTCTTTACGTGTTGAAATGTTTT  
 CTGAGCCTTGGCATGAATTACGTGTTCTAGACTCTGCTTCGCACAGCTTGTACCTACAGTACTGTACAT  
 ATTGTACATCTTTGTACAGAGACACCTCGGCACCTCATCCCAACAAATCACGTTTATAAATGAAACGC  
 TGTTCTGAGTGGCTTGAAGTGTACAGAAGGTTTTGAAAGTGTTTTATTATGAATCATGTAAGAATAAATG  
 TACTAAAGTTAA AA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_172436  
**Insert Size:** 2034 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](#)

**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:** [BC060505](#), [AAH60505](#)

**RefSeq Size:** 2522 bp

**RefSeq ORF:** 2034 bp

**Locus ID:** 78830

**UniProt ID:** [Q8BH59](#)

**Cytogenetics:** 2 C2

**Gene Summary:** Mitochondrial and calcium-binding carrier that catalyzes the calcium-dependent exchange of cytoplasmic glutamate with mitochondrial aspartate across the mitochondrial inner membrane. May have a function in the urea cycle.[UniProtKB/Swiss-Prot Function]