

Product datasheet for **RN208059**

Samm50 (NM_001004241) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Samm50 (NM_001004241) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Samm50
Synonyms:	MGC94439
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >RN208059 representing NM_001004241
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGACAGTGCACGCCAGGAGTCTGGAGCCTCTCCATCAAGTGAAGTACTGTTGGAGCACTGGGG
 AGGAAGCGGAGTTTGTGGAAGTTGAACCTGAAGCAAAACAGGAAATCCTGGAAAACAAAGATGTGGTGGT
 TCAGCATGTTTATTTGATGGACTTGAACGGACCAAGGATGACATCATATATGTGAAATCGGAGAGGTT
 TTTAAGGCTAAAAACCTCATTGAGGTAATGCGGCGGTCTCATGAGGCCCGTGAAAACTGCTTCGCCTAG
 GAATTTTTAGACAAGTGGATGTTTTGATAGACAGTGTGCATGGCGAAGATGCCCTGCCAAATGGGCTAGA
 TGTACCTTTGAAGTTACAGAGCTAAGGAGACTGACGGGCAGTTACAACACCATGGTTGGAACAACGAA
 GGCAGTATGGTACTCGGCCTCAAACCTCCCAATCTTCTGGGACGTGCAGAAAAAGTACTTTCCAGTTTT
 CTTATGGAACCAAGAACTTCTACGGCCTGTCTTTCTCAAGCCACAGCCTGGGAACTTCGAGAAAA
 CTTCTCGGTAACTTATATAAAGTTACCGGCAGTTCCCATGGAGCTCACTTCGGGAGACGGACAGAGGA
 GTGTCTGCTGAGTACAGTTTTCCACTATGCAAGACCAGTCACTGTCAAGTGGGAGGGTGTGTGGCGGG
 AACTGGGCTGCCTCGCGCGGACTGCGTCATTTCGCTGTGCGGAAGGAAAAGTGGACACTCATTGAAGTCGTC
 TCTCTCGCATGCCATGGTCATTGACTCTCGGAATTCATCTATCTTGCCAAGAAGAGGGGCCCTTGCTCAA
 GTCAACCAGGAGCTGGCAGGCTACACTGGAGGAGATGTGAGCTTCATCAAGGAAGACTTTGAGCTCAGC
 TGAATAAGCCGCTGTATTGGATTCCGGTGTCTCCACGTCCCTCTGGGGTGAATGCTGGTGCCCATCGG
 TGACAAGCTATCCAGCATTGCTGACAGGTTTTACCTGGGAGGCCCCAGAGCGTCCGAGGATTTAGCATG
 CACAGCATCGGACCCAGAGCGAAGGAGATTACCTGGGCGGGGAGGCATACTGGCCGGGGCCTGCACC
 TCTATACCCCACTGCCTTCCGGCCAGGCCAGGTGGCTTCGGAGAGCTTTTCAGAACTCACTTTTTCTCT
 CAATGCTGGCAACCTGTGCAACCTCAACTACGGTGGAGGGCCAGAGCCACATCCGGAAGCTGGCTGAA
 TGCATCCGCTGGTCTATGGTGCAGGCATCGTCTCCGGCTTGGCAACATTGCTCGGCTGGAGCTGAACT
 ACTGCATTCTATGGGTGTGAGCGAGGCGACAGGATTTGTGATGGCGTCCAGTTTGGAGCTGGGATTCG
 GTTCTGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001004241

Insert Size: 1410 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001004241.1](#), [NP_001004241.1](#)

RefSeq Size: 1638 bp

RefSeq ORF: 1410 bp

Locus ID: 300111

UniProt ID: [Q6AXV4](#)

Cytogenetics: 7q34

Gene Summary: Plays a crucial role in the maintenance of the structure of mitochondrial cristae and the proper assembly of the mitochondrial respiratory chain complexes. Required for the assembly of TOMM40 into the TOM complex.[UniProtKB/Swiss-Prot Function]