

Product datasheet for **MC216323**

Samm50 (NM_178614) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Samm50 (NM_178614) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Samm50
Synonyms:	1110030L07Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216323 representing NM_178614
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGACAGTGCACGCCCGGAGTCTGGAGCCCCTCCCGTCGAGTGGAACTGACTTTGGAGCACTGGGGG
 AGGAAGCCGAGTTTGTGGAAGTTGAGCCGGAAGCGAAACAGGAAATCCTGGAAAACAAAGATGTGGTGGT
 TCAGCATGTTTATTTGATGGACTTGGCGGACTAAGGATGACATCATCATTTGTGAAATCGGAGAGGTC
 TTTAAGGCTAAAAACCTCATTGAGGTAATGCGCGATCTCATGAAGCCCGGAAAAACTGCTTCGCCTAG
 GAATTTTGTAGACAAGTGGATGTTTTGATCGATACATGTCATGGTGAAGATGCCCTGCCCAATGGGTTAGA
 TGTACCTTTGAAGTGACAGAGCTGAGGAGACTGACGGGCAGTTACAACACCATGGTTGGAACAACGAA
 GGCAGTATGGTACTCGGCCTCAAACCTCCCAACCTTCTGGGACGAGCAGAAAAAGTCACTTTCCAGTTTT
 CTTATGGAACCAAGAACTTCTACGGCTGTCTTCTCAAGCCACAGCCTGGAAACTTCGAGAGAAA
 TTTCTCCGTAAACTTATATAAAGTTACTGGGCAGTTCCCGTGGAGCTCACTTCGGGAGACAGACAGAGGA
 GTGTCTGCAGAGTACAGTTTTCCCTGTGGAAGACCAGTCACTGTCAAGTGGGAGGGTGTGTGGCGGG
 AGCTGGGCTGCCTCTCGAGGACTGCGTCGTTCCGCTGTGCGGAAGGAAAAGTGGACACTCACTGAAGTCGTC
 TCTCTCGCATGCCATGGTCATCGACTCTCGAAATTCATCTATCTTGCCAAGAAGAGGGGCCCTTGTTCAA
 GTCAACCAGGAGCTGGCAGGCTACACTGGAGGAGATGTGAGCTTCATCAAGGAAGACTTTGAGCTTCAGC
 TGAATAAGCCGCTCGCCTTGGACTCGGTATTCTCCACGTCTCTGCGGTGGAATGTGTGGTCCCATCGG
 TGACAAGCCATCCAGCATTGCTGACAGGTTTTACCTGGGAGGCCCAAGAGTGTCCGAGGATTTAGCATG
 CACAGCATTGGACCCAGAGTGAAGGAGATTACCTGGGCGGCGAGGCCTACTGGGCTGGGGCCTGCACC
 TCTACACCCCACTGCCCTCCGCGCCAGGCCAGGGTGGCTTCGGAGAGCTTTTCAGAACTCACTTTTTCT
 CAATGCGGGCAACTGTGCAACCTCAACTATGGTGGGGCCCAAGCCATATCCGGAAGCTAGCTGAG
 TGCATCCGCTGGTCTATGGAGCAGGCGTCGCTCCGACTTGGCAACATCGCTCGGCTGGAGCTGAACT
 ACTGCATTCTATGGGCTGCAGGGGGCGACAGGATTTGTGATGGTGTCCAGTTTGGAGCTGGGATTCG
 GTTCCTG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_178614
- 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_178614.4](#), [NP_848729.1](#)

RefSeq Size: 1673 bp

RefSeq ORF: 1410 bp

Locus ID: 68653

UniProt ID: [Q8BGH2](#)

Cytogenetics: 15 E2

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]