

Product datasheet for **RR208059**

Samm50 (NM_001004241) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR208059 representing NM_001004241
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGACAGTGCACGCCAGGAGTCTGGAGCCTCTCCCATCAAGTGAAGTACTGTTGGAGCACTGGGGG
 AGGAAGCGGAGTTTGTGGAAGTTGAACCTGAAGCAAAAACAGGAAATCCTGAAAAACAAAGATGTGGTGGT
 TCAGCATGTTTATTTGATGGACTTGAACGACCAAGGATGACATCATCATATGTGAAATCGGAGAGGTT
 TTTAAGGCTAAAAACCTCATTGAGGTAATGCGGCGGTCTCATGAGGCCCGTGAAAACTGCTTCGCCTAG
 GAATTTTTAGACAAGTGGATGTTTTGATAGACAGTGTTCATGGCGAAGATGCCCTGCCAAATGGGCTAGA
 TGTACCTTTGAAGTTACAGAGCTAAGGAGACTGACGGGCAGTTACAACACCATGGTTGGAACAACGAA
 GGCAGTATGGTACTCGGCCTCAAACCTCCCAATCTTCTGGGACGTGCAGAAAAAGTACTTTCCAGTTTT
 CTTATGGAACCAAGAACTTCTACGGCCTGTCTTTCTCAAGCCACAGCCTGGGAACTTCGAGAAAA
 CTTCTCGGTAACTTATATAAAGTTACCGGCAGTTCCCATGGAGCTCACTTCGGGAGACGGACAGAGGA
 GTGTCTGCTGAGTACAGTTTTCCACTATGCAAGACCAGTCACTGTCAAGTGGGAGGGTGTGTGGCGGG
 AACTGGGCTGCCTCGCGCGGACTGCGTCATTCCGCTGTGCGGAAGGAAAGTGGACACTCATTGAAGTCGTC
 TCTCTCGCATGCCATGGTCATTGACTCTCGGAATTCATCTATCTTGCCAAGAAGAGGGGCCCTTGCTCAA
 GTCAACCAGGAGCTGGCAGGCTACACTGGAGGAGATGTGAGCTTCATCAAGGAAGACTTTGAGCTTCAGC
 TGAATAAGCCGCTGTATTGGATTCCGTTCTCCACGTCCCTCTGGGGTGAATGCTGGTGGCCATCGG
 TGACAAGCTATCCAGCATTGCTGACAGGTTTTACCTGGGAGGCCCCAGAGCGTCCGAGGATTTAGCATG
 CACAGCATCGGACCCAGAGCGAAGGAGATTACCTGGGCGGGAGGCATACTGGCCGGGGCCTGCACC
 TCTATACCCCACTGCCTTTCCGGCCAGCCAGGTTGGCTTCGGAGAGCTTTTCAGAACTCACTTTTTCTC
 CAATGCTGGCAACCTGTGCAACCTCAACTACGGTGGGGCCCGAGAGCCACATCCGGAAGCTGGCTGAA
 TGCATCCGCTGGTCTATGGTGCAGGCATCGTCTCCGGCTTGGCAACATTGCTCGGCTGGAGCTGAACT
 ACTGCATTCTATGGGTGTGACGCGAGGCGACAGGATTTGTGATGGCGTCCAGTTTGGAGCTGGGATTTC
 GTTCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208059 representing NM_001004241
 Red=Cloning site Green=Tags(s)

MGTVHARSLEPLPSSGTDGALGEEAEFVEVEPEAKQEILENKDVVVQHVHFDGLERTKDDIIICEIGEV
 FKAKNLIEVMRRSHEAREKLLRLGIFRQVDVLIDTCHGEDALPNGLDVTFEVTELRRLTGSYNTMVGNN
 GSMVLGLKLPNLLGRAEKVTFQFSYGTKETSYGLSFFKQPQGNFEKNFSVNLKVTGQFPWSSLRETDG
 VSAEYSFPLCKTSHTVKWEVWRELGLCLARTASFAVRKESGHSLKSSLSHAMVIDSRNSSILPRGALLK
 VNQELAGYTGDDVSFIKEDFELQLNKPLVLDVSTSLWGGMLVPIGDKLSSIADRFYLGPTSVRGFSM
 HSIQPGQSEGDYLGGEAYWAGGLHLYTLPFRPGQGGFELFRTHFFLNAGNLCNLNYGEGPRAHIRKLAE
 CIRWSYGAGIVLRLGNIARLELNYCIPMGVQRGDRI CDGVQFGAGIRFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

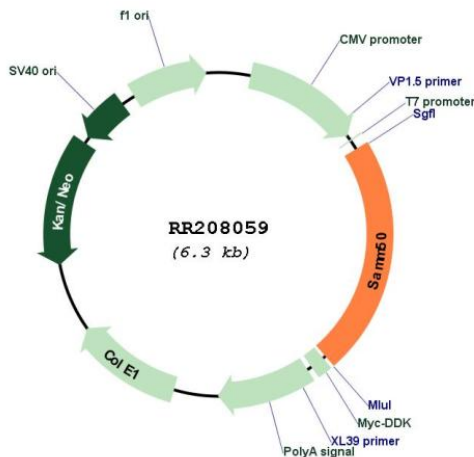
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001004241

ORF Size:

1407 bp

OTI Disclaimer:

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

RefSeq Size: 1638 bp

RefSeq ORF: 1410 bp

Locus ID: 300111

UniProt ID: [Q6AXV4](#)

Cytogenetics: 7q34

MW: 52 kDa

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]