

Product datasheet for **MR222025**

Samm50 (NM_178614) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR222025 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGACAGTGCACGCCCGGAGTCTGGAGCCCCTCCCGTCGAGTGGAACTGACTTTGGAGCACTGGGGG
 AGGAAGCCGAGTTTGTGGAAGTTGAGCCGGAAGCGAAACAGGAAATCCTGGAAAACAAAGATGTGGTGGT
 TCAGCATGTTTATTTGATGGACTTGGCGGACTAAGGATGACATCATCATTTGTGAAATCGGAGAGGTC
 TTTAAGGCTAAAAACCTCATTGAGGTAATGCGGCGATCTCATGAAGCCCGGAAAAACTGCTTCGCCTAG
 GAATTTTTAGACAAGTGGATGTTTTGATCGATACATGTCATGGTGAAGATGCCCTGCCCAATGGGTAG
 TGTACCTTTGAAGTGACAGAGCTGAGGAGACTGACGGGCAGTTACAACACCATGGTTGGAACAACGAA
 GGCAGTATGGTACTCGGCCTCAAACCTCCCAACCTTCTGGGACGAGCAGAAAAAGTCACTTTCCAGTTTT
 CTTATGGAACCAAGAACTTCTACGGCTGTCTTCTCAAGCCACAGCCTGGAACTTCGAGAGAAA
 TTTCTCCGTAACTTATATAAAGTTACTGGGCAGTTCCCGTGGAGCTCACTTCGGGAGACAGACAGAGGA
 GTGTCTGCAGAGTACAGTTTTCCCTGTGGAAGACCAGTCACTGTCAAGTGGGAGGGTGTGTGGCGGG
 AGCTGGGCTGCCTCTCGAGGACTGCGTCGTTCCGCTGTGCGGAAGGAAAAGTGGACACTCACTGAAGTCGTC
 TCTCTCGCATGCCATGGTCATCGACTCTCGAAATTCATCTATCTTGCCAAGAAGAGGGGCCCTTGTTCAA
 GTCAACCAGGAGCTGGCAGGCTACACTGGAGGAGATGTGAGCTTCATCAAGGAAGACTTTGAGCTTCAGC
 TGAATAAGCCGCTCGCCTTGGACTCGGTATTCTCCACGCTCTCTGGGGTGAATGTGGTGGCCATCGG
 TGACAAGCCATCCAGCATTGCTGACAGGTTTTACCTGGGAGGCCACGAGTGTCCGAGGATTTAGCATG
 CACAGCATTGGACCCAGAGTGAAGGAGATTACCTGGGCGCGAGGCCTACTGGGCTGGGGCCTGCACC
 TCTACACCCCACTGCCCTCCGGCCAGGCCAGGTGGCTTCGGAGAGCTTTTCAGAACTCACTTTTTCTCT
 CAATGCGGGCAACTGTGCAACCTCAACTATGGTGAAGGCCCAAGCCATATCCGGAAGCTAGCTGAG
 TGCATCCGCTGGTCTATGGAGCAGGCGTCTCTCCGACTTGGCAACATCGCTCGGCTGGAGCTGAACT
 ACTGCATTCTATGGGCGTGACGGGGGCGACAGGATTTGTGATGGTGTCCAGTTTGGAGCTGGGATTTCG
 TTCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222025 protein sequence
 Red=Cloning site Green=Tags(s)

MGTVHARSLEPLPSSGTDGALGEEAEFVEVEPEAKQEILENKDVVVQHVHFDGLGRTKDDIIICEIGE
 FKAKNLEIVMRRSHEAREKLLRLGIFRQVDVLDITCHGEDALPNGLDVTFEVTELRRLTGSYNTMVGNN
 GSMVLGLKLPNLLGRAEKVTFQFSYGTETSYGLSFFKQPQGNFERNFSVNLKVTGQFPWSSLRETD
 VSAEYSFPLWKTSHTVKWEVWRELGLSRTASFVRKESGSHLKSLSHAMVIDSRNSSILPRRGLFK
 VNQELAGYTGDDVSFIKEDFELQNKPLALDSVSTSLWGGMLVPIGDKPSSIADRFYLGGPSTSVRGFS
 HSIQPQSEGDYLGGEAYWAGGLHLYTLPFRPQGGFELFRTHFFLNAGNLCNLNYGEGPKAHIRKLA
 CIRWSYAGVVLRLGNIARLELNYCIPMGVQGGDRICDGVQFGAGIRFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_178614

ORF Size: 1410 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_178614.5](#)

RefSeq Size: 1673 bp

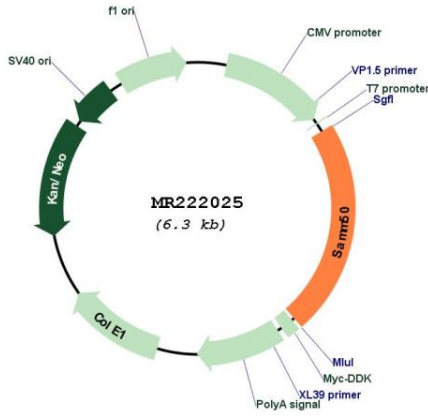
RefSeq ORF: 1410 bp

Locus ID: 68653

UniProt ID: [Q8BGH2](#)

Cytogenetics: 15 E2
MW: 51.9 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]

Product images:



Circular map for MR222025