

Product datasheet for **MR208808**

Msto1 (NM_144898) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Msto1 (NM_144898) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Msto1
Synonyms:	BC008103; mst
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208808 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCGGGGCCCGCGAGGTGCTCAGCTGCAGTTGGACATTTCCGGGTTTCGTGGGGCGCACT
 GGTGGAACCAGCAGGATGCTGCGCTGGGACGCATGGCCGAGGACGAAGAGTCGCCAGGCGAGCTGTGCC
 CGACGTCTGTACAGAACAGGCCGGACTGCATGGCCAGGAACTATACGCCTCGACTCATCCTAATG
 GATCTGAAAGGTAGTCTGAACACTCTAAAAGAAGAAGTAACTCTACAGAGACCAGAGCTAGAGGCTG
 CAGTAGCGTGGCAGGGGAAGCTCAGCACACAGAGAAGACGCCAACCAAGAACCCTCCAGGG
 CCTTCTGAGTGCAGAGGGAGTGCAGGAGTGTGACGGTGCCTGGAGGGCCAACTGATTGAGAATATCCAA
 AATGGCAAAGAGAACAGCATCAAAGTCTGGTCAGACTTCTCAGAGTCCATCTCCATCCACGGAGCATCT
 GTGTGATCCACAAGTACCACCATGATGGGGAGACAGGCCGGCTGGAGGCTTTTGGCCAAGGGGAGAGTGT
 CCTGAAGGAGCCAGGACTTGGAAAGAGCTGGAGGACAGACTACACTTCTATGTGGAGGAATGTGACTAC
 TTGCAGGGCTTCCAGCTCCTGTGTGACCTGCACGATGGCTTCTCTGGAGTAGGTGCTAAAACCTGCAGAGC
 TACTACAAGACGAGTATGCAGGGCGGGGAGTCTAACCTGGGGCCTGCTCCCGGGCCCTACAGTCTTGG
 GGAGCCTCAGAAAAACATCTATCGTCTCTTAAACACGGCATTGGTCTGGTGCACCTGACTGGATACAGC
 TCCTTCGTCTGTCCCTTATCCCTTGGAGGGAACCTGGGCTGCGACCCAAGCCGCTGTCAACTTCCCTT
 CCCTACATTATGATGCCACTCTGCCCTTCCACTGTAGCGCCATCCTGGCGACAGCGCTGGACACGGTGAC
 TGTTCCCTATCGCTGCGCTCCTCAATGGTTACCATGGCTCACTTGGCTGATGTGCTAAGTTTCTCTGGG
 AAAAAGGTGGTGACAGCAGAAGCAATCATCCCCTCCCCTGGTTCGAGGCCAGTCCCTTCTGACATCC
 TGACGCAGCTTGGAGAAGCCACCCATGGACCTCCCTGTGGCATGCGGGGATTCTGCTGGACATCGGTG
 CTTTGCCAGTCTGTGGTGTCTCAGAGGCATAGACAGAGCTAGCCACACCAGTAAGCTCAACCCAGGGACA
 CCTCTGCCCTCTGCTCTCCACGCATGCGCCTCTGGAGAAGAAGTCTTGGCCAGTACTTACAGCAGCAGC
 ATCCTAGAGTCTTGTGATCGTACATCTGCTGCTGACTCCCTGCAAAGTGGCTCCTCCATACCCACACTT
 CTTCTCAAGCTTCAGTCAGAAAGGGCTGGCCATGGACAGTACCCCAAGGGCGCAGCAGTACAGAGCATC
 CCTGTGTTTGGGGCCTTGCCTTCAACTTCACTTGCACCGTACGCTGGGAGACTTGGCTGAAGAGCTCA
 GCAGACTTGACCTGCGGGCTGGCTAGCTTATGGACGCTGGCGTGGAGCAGGATGACATGGAAGAGAT
 GCTGCACGAGTTACACAGTTGGCCAGTGTACCAGGAGGGTGACAGTCTCTCGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208808 protein sequence
 Red=Cloning site Green=Tags(s)

MAGGAREVLTQLGHFAGFVGAHWWNQDAALGRMAEDEESPGELCPDVLVRTGLHMQEYTPRLILM
 DLKGSNLTKKEENLYRDRQLEAAVAWQKLSHREDAQPKNPQLQGLLSAEGVRSSDGAWRAKLIQNIQ
 NGKENSIVWSDFLRVHLHPRICVHKYHHDGETGRLEAFQGQESVLEKEPRYLEELEDRLHFYVEECDY
 LQGFQLLCDLHDGFSVGVAKTAELLQDEYAGRGVLTWGLLPGPYSLGEPQKNIYRLLNTAFGLVHLTGYS
 SFVCPPLSLGGNLGLRPKPPVNFPSLHYDLPFHCSAILATALDVTVPYRLRSMVMTMAHLADVLSFSG
 KKVVTAEAIIPFPLVRGQSLPDILTQLGEATPWTSLSACGDSAGHRCFAQSVVLRGIDRASHTSKLNPGT
 PLPSALHACASGEEVLAQYLQQQHPRVLSHLLLTTPCKVAPPYPHFFSSFQKGLAMDSTPKGAAVQSI
 PVFGALRSTSSLHRTLGDLAEELSRDLRRWASFM DAGVEQDDMEMLHELHRLAQCYQEGDSLNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_144898

ORF Size: 1671 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 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](#)

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_144898.1](#), [NP_659147.1](#)

RefSeq Size: 1825 bp

RefSeq ORF: 1671 bp

Locus ID: 229524

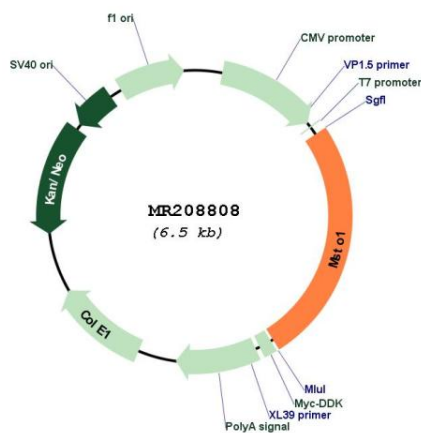
UniProt ID: [Q2YDW2](#)

Cytogenetics: 3 F1

MW: 61.2 kDa

Gene Summary: Involved in the regulation of mitochondrial distribution and morphology. Required for mitochondrial fusion and mitochondrial network formation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208808