

Product datasheet for **SC113679**

MSTO1 (NM_018116) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MSTO1 (NM_018116) Human Untagged Clone
Tag:	Tag Free
Symbol:	MSTO1
Synonyms:	LST005; MMYAT; MST
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_018116, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGCGGGGCCCGGGAGGTGCTCACACTGCAGTTGGGACATTTTGCCGTTTCGTGGGCGCGCACT
GGTGAACACAGCAGGATGCTGCGCTGGGCCGAGCGACCGATTCCAAGGAGCCCCGGGAGAGCTGTGCC
CGACGTCCTGTATCGTACGGGCCGACGCTGCACGGCCAGGAGACCTACACGCCCGGACTCATCCTCATG
GATCTGAAGGGTAGTTTGTAGCTCCCTAAAAGAGGAAGGTGGACTCTACAGGGACAAAACAGTTGGATGCTG
CAATAGCATGGCAGGGGAAGCTCACACACACAAAAGAGGAAGTCTATCCCAAGAACCCTTATCTCCAAGA
CTTTCTGAGTGCAGAGGGAGTGTGAGTGTGATGGTGTCTGGAGGGTCAAATCCATTCCCAATGGCAAA
GGTTCCTCACCCTCCCAACCGTACAACCTCAAAAACCACTTATCCCTACAGAGGCCAGCATCAGGGTCT
GGTCAGACTTCTCAGAGTCCATCTCCATCCCCGGAGCATCTGTATGATTCAGAAGTACAACCACGATGG
GGAAGCAGGTGGCTGGAGGCTTTGGCCAAGGGGAAAGTGTCTAAAGGAACCAAGTACCAGGAAGAG
CTGGAGGACAGGCTGCATTTCTACGTGGAGGAATGTGACTACTTGCAGGGCTTCCAGATCCTGTGTGACC
TGCACGATGGCTTCTCTGGGTAGGCGCGAAGGCGGCAGAGCTGTACAAGATGAATATTCAGGGCGGGG
AATAATAACCTGGGGCCTGCTACCTGGTCCCTACCATCGTGGGGAGGCCAGAGAAAACATCTATCGTCTA
TTAAACACAGCTTTTGGTCTCGTGCACCTGACTGCTCACAGCTCTCTTGTCTGCCCTTGTCTTGGGTG
GGAGCCTGGGCCTGCGACCCGAGCCACCTGTGAGCTTCCCTTACCTGCATTATGATGCCACTCTGCCCTT
CCTGTCAGTGCATCCTGGCTACAGCCCTGGACACAGTCACTGTTTCTTATCGCTGTGTTCTCTCCA
GTTTCCATGGTTCATCTGGCTGACATGCTGAGCTTCTGTGGGAAAAAGGTGGTGACAGCAGGAGCAATCA
TCCCTTTCCCTTGGCTCCAGGCCAGTCCCTTCTGATTCCCTGATGCAGTTTGGAGGAGCCACCCCATG
GACCCCACTGTCTGCATGTGGGGAGCCTTCTGGAACACGTTGCTTTGCCAGTCACTGGTGTGAGGGGT
ATAGACAGAGCATGCCACACAAGCCAGTCAACCCAGGGACACCTCCACCCTCTGCCCTCATGCAATGTA
CCTACTGGGAAGAAATCTTGGCTCAGATTTTACAACAGCAGCAGCTGGAGTCATGAGTTCTTCCATCT
GCTGCTGACTCCCTGCAGGGTGGCTCCTCCTTACCCCACTTCTCAAGCTGCAGTCCACCGGGTATG
GTTCTGGATGGTTCCTCAAGGGAGCAGCAGTGGAGAGCATCCCAGTGTGGGGCACTGTGTTCTCTT
CGTCCCTGCACCAGACCTGGAAGCCTTGGCCAGAGACCTCACCAAACCTCGACTTGGCGCTGGGCCAG
CTTCATGGATGCTGGAGTGGAGCAGATGACGTAGCAGAGCTGCTGCAGGAGCTACAAGCCTGGCCAG
TGCTACCAGGGTGGTGCAGCCTCGTGGACTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018116 unedited

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GGTCACATTTGTATACGACTCACTATAGGCGGCCCGCGATTTCGGCAGGAGGGCCCCGTGG
AGCAGCGCAGTATGGCGGGCGGGGCCCGGGAGGTGCTCACACTGCAGTTGGGACATTTTG
CCGTTTTCGTGGGCGCGCACTGGTGAACACAGCAGGATGCTGCGCTGGGCCGAGCGACCG
ATTCCAAGGAGCCCCGGGAGAGCTGTGCCCGACGTCCTGTATCGTACGGGCCGGACGC
TGCACGGCCAGGAGACCTACACGCCGCGACTCATCCTCATGGATCTGAAGGGTAGTTTGA
GCTCCCTAAAAGAGGAAGGTGGACTCTACAGGGACAAAACAGTTGGATGCTGCAATAGCAT
GGCAGGGGAAGCTCACACACACAAAAGAGGAAGTCTATCCCAAGAACCCTTATCTCCAAG
ACTTTCTGAGTGCAGAGGGAGTGTGAGTGTGATGGTGTCTGGAGGGTCAAATCCATTC
CCAATGGCAAAGGTTCTCACCCTCCCAACCGTACAACCTCAAAAACCACTTATCCCTA
CAGAGGCCAGCATCAGGGTCTGGTCAGACTTCTCAGAGTCCATCTCCATCCCCGGAGCA
TCTGTATGATTCAGAAGTACAACCCACGATGGGGAAGCAGGTCGGCTGGAGGCTTTTGGC
CAAGGGGAAAGTGTCTAAAGGAACCAAGTACCAGGAAGAGCTGGAGGACAGGCTGCAT
TTCTACGTGGAGGAATGTGACTACTTGCAGGGCTTCCAGATCCTGTGTGACCTGCACGAT
GGCTTCTTTGGGGTAAGCCCAAAGCGGAAAGCTGCTACAACATGAATATTCAGGCGG
NGGAATAATAACCTGGGGCCTGCTACCTGGGTCTACCTCCGTGGGGAAGCCCAACAC
AACATCTATCGCCTATT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018116 unedited GAACGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCTTCATAAATGTAA CATGTTACTAAGGATCAGTGAATACAGCCCTCCTCTTCTTAGGTTTCCCACCATTTTC GAGAACTCATGCAGCTCTCCACACTGCCTGTGAAGCCAGCTCTGAGGATGAGGATGATG CAACCAGTACCAGCAATGCAGACCAGCTGTCTGACCATGGGGACCTTCTGTCTGAAGAGG AGCTGGATGAATGAGACTCTGGGAATCATCTACACAGGACCAAACCAACAGGCGCCCTG GCACCGGGGAGGGGTAGTTGTACTCTGCTTGTACAGTCCTTGAGCCCAGTTTACAGAT CTGGAGAGCAGGAGGCCAGGACAAGGACAAAGGCTGGAGGATGGAGTAGGACCCAGGGGC TCTGCCATCCTAGGCATCATTCAAGGTCTTTTATGAAGACTTTACAGATGTCCTCTGTAA GTAGCATCGAGAGTGGAGTTCAGCTCCTTTCTCTACTTTTTTTTTGGTCTGATGGCACATA TTTATTGGTCTGTGGTCTAATCACAGTGTCTAAATGAAAAAGTGCATATGTTGGGGT AGCTAGTCCCAGCATTGAGCTCCTCTGCATGAAGACTGGGCTCCTGCATCCAGCTG TTTTTATTGCAAAGTCTCTTCTCCCACTGGGAACCTTAGTCCCGGAGGCTGCC CCCACCCTGGGAACACTGGGCCAGGCTTGTAGCTCCTGAACCAGCTCTGGTACGTAAT GGGGCTCCACTTACGATCATGAAGCTGCCCCACGCCCAAGGTCAGCTTGGGGAGGCT CTGGCAAAGGTTCTAAGGGACTGTGGAGGGACAAAAGAACACCTGGCCCAACCCGGGAG GCTTCCATGGG
Restriction Sites:	NotI-NotI
ACCN:	NM_018116
Insert Size:	2440 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
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:	<ol style="list-style-type: none"> 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_018116.2 , NP_060586.2
RefSeq Size:	2446 bp

RefSeq ORF: 1713 bp

Locus ID: 55154

UniProt ID: [Q9BUK6](#)

Cytogenetics: 1q22

Gene Summary: Involved in the regulation of mitochondrial distribution and morphology (PubMed:17349998, PubMed:28554942, PubMed:28544275). Required for mitochondrial fusion and mitochondrial network formation (PubMed:28554942, PubMed:28544275).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the longest isoform (a).