

Product datasheet for **SC320614**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_018116.2
 GGCGGCCCGTGGAGCAGCGCAGTATGGCGGGCGGGCCCGGGAGGTGCTCACACTGCAG
 TTGGGACATTTTGCCTGTTTCGTGGCGCGCACTGGTGGAAACCAGCAGGATGCTGCGCTG
 GGCCGAGCGACCGATTCCAAGGAGCCCCCGGGAGAGCTGTCCCCGACGTCCTGTATCGT
 ACGGGCCGGACGCTGCACGGCCAGGAGACCTACACGCCGCGACTCATCCTCATGGATCTG
 AAGGGTAGTTTGGAGCTCCCTAAAAGAGGAAGGTGACTCTACAGGGACAAACAGTTGGAT
 GCTGCAATAGCATGGCAGGGGAAGCTCACCACACACAAAGAGGAAGTCTATCCCAAGAAC
 CCTTATCTCCAAGACTTTCTGAGTGCAGAGGGAGTGTGAGTAGTGATGGTGTCTGGAGG
 GTCAAATCCATTCCCAATGGCAAAGTTCCTCACCCTCCACCGCTACAACCTCAAAA
 CCCTTATCCCTACAGAGGCCAGCATCAGGGTCTGGTCAGACTTCTCAGAGTCCATCTC
 CATCCCCGGAGCATCTGTATGATTACAGAAAGTACAACCACGATGGGGAAGCAGGTGCGCTG
 GAGGCTTTTGGCCAAGGGGAAAGTGTCTAAAGGAACCAAGTACCAGGAAGAGCTGGAG
 GACAGGCTGCATTCTACGTGGAGGAATGTGACTACTTGCAGGGCTTCCAGATCCTGTGT
 GACCTGCACGATGGCTTCTGTTGGGTAGGCGGAAGGCGGAGAGCTGCTACAAGATGAA
 TATTCAGGGCGGGGAATAATAACCTGGGGCCTGCTACCTGGTCCCTACCATCGTGGGGAG
 GCCCAGAGAAACATCTATCGTCTATTAACACAGCTTTTGGTCTCGTGCACCTGACTGCT
 CACAGCTCTTTGTCTGCCCTTGTCTTGGGTGGGAGCCTGGGCTGCGACCCGAGCCA
 CCTGTACAGCTTCCCTTACCTGCATTATGATGCCACTCTGCCCTTCCACTGCAGTGCATC
 CTGGCTACAGCCCTGGACACAGTCACTGTTCTTATCGCCTGTGTTTCTTCCAGTTTCC
 ATGGTTCATCTGGCTGACATGCTGAGCTTCTGTGGGAAAAAGGTGGTGACAGCAGGAGCA
 ATCATCCCTTTCCCTTGGCTCCAGGCCAGTCCCTTCTGATTCCCTGATGCAGTTTGGAG
 GGAGCCACCCATGGACCCCACTGTCTGCATGTGGGAGCCTTCTGGAACACGTTGCTTT
 GCCCAGCTCAGTGGTGTGAGGGGTATAGACAGAGCATGCCACACAAAGCCAGCTCACCCCA
 GGGACACCTCCACCCTTGGCCCTCATGCATGTACCACTGGGGAAGAAATCTTGGCTCAG
 TATTTACAAACAGCAGCAGCCTGGAGTATGAGTCTTCCCATCTGCTGCTGACTCCCTGC
 AGGGTGGCTCCTCTTACCCCACTCTTCTCAAGCTGCAGTCCACCGGGTATGGTTCTG
 GATGGTCCCCCAAGGGAGCAGCAGTGGAGAGCATCCCAGTGTGGGGCACTGTGTTCC
 TCTTCGTCCTGCACCAGACCCTGGAAGCCTTGGCCAGAGACCTACCAAACCTCGACTTG
 CGGCGCTGGGCCAGCTTTCATGGATGCTGGAGTGGAGCACGATGACGTAGCAGAGCTGCTG
 CAGGAGCTACAAAGCCTGGCCAGTGTACCAGGGTGGTACAGCCTCGTGGACTAAAGT
 TCCCAGTGTGGGAGAAAGGAGCTAGTTTGAATAAAAACAGCTGGATGCAAGAAAAA
 AA

Restriction Sites: Please inquire

ACCN: NM_018116

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).