

## Product datasheet for **SC332410**

### MSTO1 (NM\_001256532) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MSTO1 (NM\_001256532) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** MSTO1  
**Synonyms:** LST005; MMYAT; MST  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332410 representing NM\_001256532.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCGGGCGGGGCCGGGAGGTGCTCACACTGCAGTTGGGACATTTTGCCGTTTCGTGGGCGCGCAC
TGGTGGAAACCAGCAGGATGCTGCGCTGGGCCGAGCGACCGATTCCAAGGAGCCCCGGGAGAGCTGTGC
CCCAGCTCCTGTATCGTACGGGCCGACGCTGCACGGCCAGGAGACCTACACGCCGCGACTCATCCTC
ATGGATCTGAAGGTAGTTTGTAGCTCCATAAAAGAGGAAGGTGGACTCTACAGGGACAAACAGTTGGAT
GCTGCAATAGCATGGCAGGGGAAGCTCACCACACAAAAGAGGAAGTCTATCCCAAGAACCCTTATCTC
CAAGACTTCTGAGTGCAGAGGGAGTGTGAGTAGTGATGGTGTCTGGAGGGTCAAATCCATTCCCAAT
GGCAAAGGTTCCCTCACCCTCCCAACCGCTACAACCTCAAAACCACTTATCCCTACAGAGGCCAGCATC
AGGGTCTGGTCAGACTTCTCAGAGTCCATCTCCATCCCCGGAGCATCTGTATGATTGAGAAGTACAAC
CACGATGGGGAAGCAGGTCGGCTGGAGGCTTTGGCCAAGGGGAAAGTGTCTAAAGGAACCCAAGTAC
CAGGAAGAGCTGGAGGACAGGCTGCATTCTACGTGGAGGAATGTGACTACTTGCAGGGCTTCCAGATC
CTGTGTGACCTGCACGATGGCTTCTCTGGGGTAGGCGCGAAGGCCGGCAGAGCTGTACAAGATGAATAT
TCAGGGCGGGGAATAATAACCTGGGGCTGCTACCTGGTCCCTACCATCGTGGGGAGGCCAGAGAAAC
ATCTATCGTCTATTAACACAGCTTTTGGTCTCGTGCACCTGACTGCTCACAGCTCTCTTGTCTGCCCC
TTGTCTTGGGTGGGAGCCTGGGCCTGCGACCCGAGCCACCTGTCAGCTTCCCTTACCTGCATTATGAT
GCCACTTGCCCTTCCACTGCAGTGCCATCCTGGCTACAGCCCTGGACACAGTCACTGTTCTTATCGC
CTGTGTTCTCTCCAGTTTCCATGGTTCATCTGGCTGACATGCTGAGCTTCTGTGGGAAAAGGTGGTG
ACAGCAGGAGCAATCATCCCTTTCCCTTGGCTCCAGGCCAGTCCCTTCTGATTCCCTGATGCAGTTT
GGAGGAGCCACCCATGGACCCACTGTCTGCATGTGGGGAGCCTTCTGGAACACGTTGCTTTGCCAG
TCAGTGGTGTGAGGGGTATAGACAGAGCATGCCACACAAGCCAGCTCACCCAGGGACACCTCCACCC
TCTGCCCTTCATGCATGTACCACTGGGGAAGAAATCTTGGCTCAGTATTTACAACAGCAGCAGCCTGGA
GTCATGAGTTCTCCCATCTGCTGCTGACTCCCTGCAGGGTGGCTCCTCCTTACCCACCTCTTCTCA
AGCTGCAGTCCACCGGTATGGTCTGGATGGTCCCCCAAGGGAGCAGTGGAGAGCATCCCAGTGTTC
GGGCACTGTGTTCTCTTCTGCTCCCTGCACCAGACCTGGAAGCCTTGGCCAGAGACCTCACAAACTC
GACTTGGCGGCTGGGCCAGCTTATGGATGCTGGAGTGGAGCACGATGACGTAGCAGAGCTGCTGCAG
GAGCTACAAGCCTGGCCAGTGTACCAGGGTGGTGACAGCCTCGTGGACTAA
  
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**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001256532



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<b>Insert Size:</b>	1710 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001256532.1</a></u>
<b>RefSeq Size:</b>	2497 bp
<b>RefSeq ORF:</b>	1710 bp
<b>Locus ID:</b>	55154
<b>UniProt ID:</b>	<u><a href="#">Q9BUK6</a></u>
<b>Cytogenetics:</b>	1q22
<b>MW:</b>	61.8 kDa
<b>Gene Summary:</b>	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 (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform b), compared to isoform a.