

Product datasheet for **SC332411**

MSTO1 (NM_001256533) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MSTO1 (NM_001256533) Human Untagged Clone
Tag: Tag Free
Symbol: MSTO1
Synonyms: LST005; MMYAT; MST
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332411 representing NM_001256533.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCGGGCGGGGCCGGGAGGTGCTCACACTGCAGTTGGGACATTTTGCCGTTTCGTGGGCGCGCAC
TGGTGGAAACCAGCAGGATGCTGCGCTGGGCCGAGCGACCGATTCCAAGGAGCCCCGGGAGAGCTGTGC
CCCAGCTCCTGTATCGTACGGGCCGACGCTGCACGGCCAGGAGACCTACACGCCGCGACTCATCTC
ATGGATCTGAAGGTAGTTTGTAGCTCCATAAAAGAGGAAGGTGGACTCTACAGGGACAAACAGTTGGAT
GCTGCAATAGCATGGCAGGGGAAGCTCACCACACAAAAGAGGAAGTCTATCCCAAGAACCCTTATCTC
CAAGACTTCTGAGTGCAGAGGGAGTGTGAGTAGTGATGGTGTCTGGAGGGTCAAATCCATTCCCAAT
GGCAAAGTTTCTCACCCTCCCAACCGCTACAACCTCAAAACCACTTATCCCTACAGAGGCCAGCATC
AGGGTCTGGTCAGACTTCTCAGAGTCCATCTCCATCCCCGGAGCATCTGTATGATTGAGAAGTACAAC
CACGATGGGGAAGCAGGTCCGGCTGGAGGCTTTGGCCAAGGGGAAAGTGTCTAAAGGAACCCAAGTAC
CAGGAAGAGCTGGAGGACAGGCTGCATTCTACGTGGAGGAATGTGACTACTTGCAGGGCTTCCAGATC
CTGTGTGACCTGCACGATGGCTTCTCTGGGGTAGGCGCGAAGGCCGCGAGAGCTGTACAAGATGAATAT
TCAGGGCGGGGAATAATAACCTGGGGCTGCTACCTGGTCCCTACCATCGTGGGGAGGCCAGAGAAAC
ATCTATCGTCTATTAACACAGCTTTTGGTCTCGTGCACCTGACTGCTCACAGCTCTCTTGTCTGCCCC
TTGTCTTGGTGGGAGCCTGGGCTGCGACCCGAGCCACCTGTCAGCTTCCCTTACCTGCATTATGAT
GCCACTTGCCCTTCCACTGCAGTGCCATCCTGGCTACAGCCCTGGACACAGTCACTGTTCTTATCGC
CTGTGTTCTCTCCAGTTTCCATGGTTCATCTGGCTGACATGCTGAGCTTCTGTGGGAAAAGGTGGTG
ACAGCAGGAGCAATCATCCCTTTCCCTTGGCTCCAGGCCAGTCCCTTCTGATTCCCTGATGCAGTTT
GGAGGAGCCACCCATGGACCCACTGTCTGCATGTGGGGAGCCTTCTGGAACACGTTGCTTTGCCAG
TCAGTGGTGTGAGGGGTATAGACAGAGCATGCCACACAAGCCAGCTCACCCAGGGACACCTCCACCC
TCTGCCCTTTCATGCATGTACCACTGGGGAAGAAATCTTGGCTCAGTATTTACAACAGCAGCAGCCTGGA
GTCATGAGTTCTCCCATCTGCTGCTGACTCCCTGCAGGGTGGCTCCTCCTTACCCACCTCTTCTCA
AGCTGCAGTCCACCGGTGGAGAGCATCCCAGTGTGGGGCACTGTGTTCTCTTCGTCCTGCACCAG
ACCTTGAAGCCTTGGCCAGAGACTCACAAACTCGACTTGGCGGCTGGGCCAGCTTTCATGGATGCT
GGAGTGGAGCAGCATGACGTAGCAGAGCTGCTGCAGGAGCTACAAAGCCTGGCCAGTGCTACCAGGGT
GGTGCAGCCTCGTGGACTAA
  
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Restriction Sites: Sgfl-Mlul
ACCN: NM_001256533



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Insert Size:	1677 bp
OTI Disclaimer:	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).
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:	<u>NM_001256533.1</u>
RefSeq Size:	2464 bp
RefSeq ORF:	1677 bp
Locus ID:	55154
UniProt ID:	<u>Q9BUK6</u>
Cytogenetics:	1q22
MW:	60.8 kDa
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 (3) uses two alternate in-frame splice sites in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform c), compared to isoform a.