

## Product datasheet for **SC302633**

### MST3 (STK24) (NM\_001032296) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MST3 (STK24) (NM\_001032296) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** MST3  
**Synonyms:** HEL-S-95; MST3; MST3B; STE20; STK3  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001032296 edited  
 ATGGCTCACTCCCGGTGCAGTCGGGCCTGCCCGCATGCAGAACCTAAAGGCAGACCCA  
 GAAGAGCTTTTTACAAAAGTAGAGAAAATTGGGAAGGGCTCCTTTGGAGAGGTGTTCAAA  
 GGCATTGACAATCGGACTCAGAAAAGTGGTTGCCATAAAGATCATTGATCTGGAAGAAGCT  
 GAAGATGAGATAGAGGACATTCAACAAGAAATCACAGTGTGAGTCAGTGTGACAGTCCA  
 TATGTAACCAAATATTATGGATCCTATCTGAAGGATACAAAATTATGGATAATAATGGAA  
 TATCTTGGTGGAGGCTCCGCACTAGATCTATTAGAACCTGGCCATTAGATGAAACCCAG  
 ATCGCTACTATATTAAGAGAAATACTGAAAGGACTCGATTATCTCCATTCGGAGAAGAAA  
 ATCCACAGAGACATTAAGCGGCCAACGTCCTGCTGTCTGAGCATGGCGAGGTGAAGCTG  
 GCGGACTTTGGCGTGGCTGGCCAGCTGACAGACACCCAGATCAAAGGAACACCTTCGTG  
 GGCACCCCATCTGGATGGCACCAGGTCATCAAACAGTTGGCCTATGACTCGAAGGCA  
 GACATCTGGTCCCTGGGCATAACAGCTATTGAACTTGCAAGAGGGGAACACCTCATTCC  
 GAGCTGCACCCCATGAAAGTTTTATTCCCTCATTCAAAGAACAACCCACCGACGTTGGAA  
 GGAAACTACAGTAAACCCCTCAAGGAGTTTGTGGAGGCCTGTTTGAATAAGGAGCCGAGC  
 TTTAGACCCACTGCTAAGGAGTTATTGAAGCACAGTTTATACTACGCAATGCAAAGAAA  
 ACTTCCTACTTGACCGAGCTCATCGACAGGTACAAGAGATGGAAGGCCGAGCAGACCCAT  
 GACGACTCGAGCTCCGAGGATCCGACGCGGAAACAGATGGCCAAGCCTCGGGGGCAGT  
 GATTCGGGGACTGGATCTTCACAATCCGAGAAAAAGATCCCAAGAATCTCGAGAATGGA  
 GCTCTTCAGCCATCGGACTTGGACAGAAATAAGATGAAAGACATCCCAAAGAGGCCTTTC  
 TCTCAGTGTATCTACAATTATTTCTCCTCTGTTTGCAGAGTTGAAGGAGAAGAGCCAG  
 GCGTGCAGGAGGAACTTGGGGTCCATTGAAGAGCTGCGAGGGGCCATCTACCTAGCGGAG  
 GAGGCGTGCCCTGGCATCTCCGACACCATGGTGGCCAGCTCGTGCAGCGGCTCCAGAGA  
 TACTCTAAGTGGTGGAGGAATTCATCCCACTGA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001032296



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<b>Insert Size:</b>	2400 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM_001032296.1.
<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>	<a href="#">NM_001032296.1</a> , <a href="#">NP_001027467.1</a>
<b>RefSeq Size:</b>	2636 bp
<b>RefSeq ORF:</b>	1296 bp
<b>Locus ID:</b>	8428
<b>UniProt ID:</b>	<a href="#">Q9Y6E0</a>
<b>Cytogenetics:</b>	13q32.2
<b>Protein Families:</b>	Druggable Genome, Protein Kinase

**Gene Summary:**

This gene encodes a serine/threonine protein kinase that functions upstream of mitogen-activated protein kinase (MAPK) signaling. The encoded protein is cleaved into two chains by caspases; the N-terminal fragment (MST3/N) translocates to the nucleus and promotes programmed cells death. There is a pseudogene for this gene on chromosome X. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2013]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (b) has a distinct N-terminus and is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.