

## 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:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>&gt;OriGene ORF sequence for NM_003576 edited</p> <pre> GGGCGGCCGCAATTCGGCACGAGGCTCCGGCCGGCCCCGCCCGAGGGCTGCGCGCG GCCCCGGGGCCTCGCCGCCCCGCGCGGATCGTCGCGGGCCCGCGCTCCCGTCCCAGGAAG TGGCCGTCTGAGCGCCATGGCTCACTCCCCGGTGCAAGTCGGGGCTGCCCGGCATGCAGA ACCTAAAGGCAGACCCAGAAGAGCTTTTACAAAAGTAGAGAAAATTGGGAAGGGCTCCT TTGGAGAGGTGTTCAAAGGCATTGACAATCGGACTCAGAAAGTGGTTGCCATAAAGATCA TTGATCTGGAAGAAGCTGAAGATGAGATAGAGGACATTCAACAAGAAATCACAGTGCTGA GTCAGTGTGACAGTCCATATGTAACCAATATTATGGATCCTATCTGAAGGATACAAAAT TATGGATAATAATGGAATATCTTGGTGGAGGCTCCGCACTAGATCTATTAGAACCTGGCC CATTAGATGAAACCCAGATCGCTACTATATTAAGAGAAATACTGAAAGGACTCGATTATC TCCATTGCGAGAAGAAAATCCACAGAGACATTAAGCGGCCAACGTCCTGCTGTCTGAGC ATGGCGAGGTGAAGCTGGCGGACTTTGGCGTGGCTGGCCAGCTGACAGACACCCAGATCA AAAGGAACACCTTCGTGGGCACCCATTCTGGATGGCACCCGAGGTCAACAAACAGTTGG CCTATGACTCGAAGGCAGACATCTGGTCCCTGGGCATAACAGCTATTGAACTTGCAAGAG GGGAACCACTCATTCCGAGCTGCACCCCATGAAAGTTTTATTCTCATTCCAAAGAAC ACCCACCGACGTTGGAAGGAACTACAGTAAACCCCTCAAGGAGTTTGTGGAGGCCTGTT TGAATAAGGAGCCGAGCTTTAGACCCACTGCTAAGGAGTTATTGAAGCACAAGTTTATAC TACGCAATGCAAGAAAACTTCTACTTGACCGAGCTCATCGACAGGTACAAGAGATGGA AGGCCGAGCAGAGCCATGACGACTCGAGCTCCGAGGATCCGACGCGGAAACAGATGGCC AAGCCTCGGGGGCAGTGATTCTGGGGACTGGATCTTCAATCCGAGAAAAAGATCCCA AGAATCTCGAGAATGGAGCTCTTCAGCCATCGGACTTGGACAGAAATAAGATGAAAGACA TCCCAAAGAGGCCTTTCTCTCAGTGTATCTACAATTATTTCTCTCTGTTTGCAGAGT TGAAGGAGAAGAGCCAGGCGTGGGAGGGAAGTTGGGGTCCATTGAAGAGCTGCGAGGGG CCATCTACCTAGCGGAGGAGGCGTGGCCTGGCATCTCCGACACCATGGTGGCCAGCTCG TGCAGCGGCTCCAGAGATACTCTAAGTGGTGGAGGAATTCATCCCACTGA </pre>

Restriction Sites: Please inquire


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<b>ACCN:</b>	NM_001032296
<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.