

## Product datasheet for **SC317726**

### **MST3 (STK24) (NM\_003576) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MST3 (STK24) (NM_003576) Human Untagged Clone
Tag:	Tag Free
Symbol:	MST3
Synonyms:	HEL-S-95; MST3; MST3B; STE20; STK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317726 representing NM_003576. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACTCCAGAGCCAGCTTTGGGACTGGCCTTGAATAAAAGGAGGGCCACTCTACCTCATCCTGGA
GGGAGCACGAACCTAAAGGCAGACCCAGAAGAGCTTTTTACAAAAGTAGAGAAAATTGGGAAGGGCTCC
TTTGGAGAGGTGTTCAAAGGCATTGACAATCGGACTCAGAAAGTGGTTGCCATAAAGATCATTGATCTG
GAAGAAGCTGAAGATGAGATAGAGGACATTCAACAAGAAATCACAGTGCTGAGTCAGTGTGACAGTCCA
TATGTAACCAAAATATTATGGATCCTATCTGAAGGATACAAAATTATGGATAATAATGGAATATCTGGT
GGAGGCTCCGACTAGATCTATTAGAACCTGGCCATTAGATGAAACCCAGATCGCTACTATATTAAGA
GAAATACTGAAAGGACTCGATTATCTCCATTCCGAGAAGAAAATCCACAGAGACATTAAGCGGCCAAC
GTCCTGCTGTCTGAGCATGGCGAGGTGAAGCTGGCGGACTTTGGCGTGGCTGGCCAGCTGACAGACACC
CAGATCAAAGGAACACCTTCGTGGGCACCCATTCTGGATGGCACCCGAGGTCAACAAAGTCGGCC
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CATTCCGAGCTGCACCCCATGAAAGTTTTATTCCTCATTCCAAAGAACAACCCACCGACGTTGGAAGGA
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CCCAAGAATCTCGAGAATGGAGCTTTCAGCCATCGGACTTGACAGAAAATAAGATGAAAGACATCCCA
AAGAGGCTTTCTCTCAGTGTATCTACAATTTCTCCTCTGTTTGCAGAGTTGAAGGAGAAGAGC
CAGGCGTGCAGGGAACCTGGGGTCCATTGAAGAGCTGCGAGGGGCCATCTACCTAGCGGAGGAGGCG
TGCCCTGGCATCTCCGACACCATGGTGGCCAGCTCGTGCAGCGGCTCCAGAGATACTCTCTAAGTGT
GGAGGAACCTCATCCACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_003576
<b>Insert Size:</b>	1332 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>	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.
<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_003576.4</a>
<b>RefSeq Size:</b>	4579 bp
<b>RefSeq ORF:</b>	1332 bp
<b>Locus ID:</b>	8428
<b>UniProt ID:</b>	<a href="#">Q9Y6E0</a>
<b>Cytogenetics:</b>	13q32.2
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>MW:</b>	49.3 kDa

**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 (1) encodes the longest isoform (a, also known as MST3b).

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.