

## Product datasheet for **SC117907**

### **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:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_003576 edited  
GGGCGGCCGGAATTCGGCACGAGGCTCCGGCCGGCCCCGGCCGAGGGCTGCGCGCG  
GCCCGCGGCCCTCGCCGCCCGCGGGATCGTCGCGGCCCGCGCGTCCCCTCCAGGAAG  
TGGCCGTCTGAGCGCCATGGCTCACTCCCGGTGCAGTCGGGCCCTGCCGGCATGCAGA  
ACCTAAAGGCAGACCCAGAAGAGCTTTTTACAAAAGTAGAGAAAATTGGGAAGGGCTCCT  
TTGAGAGGTGTTCAAAGGCATTGACAATCGGACTCAGAAAGTGGTTGCCATAAAGATCA  
TTGATCTGGAAGAAGCTGAAGATGAGATAGAGGACATTCAACAAGAAATCACAGTGCTGA  
GTCAGTGTGACAGTCCATATGTAACCAATATTATGGATCCTATCTGAAGGATACAAAAT  
TATGGATAAATAATGGAATATCTTGGTGGAGGCTCCGCACTAGATCTATTAGAACCTGGCC  
CATTAGATGAAACCCAGATCGCTACTATATTAAGAGAAAATACTGAAAGGACTCGATTATC  
TCCATTCCGAGAAGAAAATCCACAGAGACATTAAGCGGCCAACGTCCTGCTGTCTGAGC  
ATGGCGAGGTGAAGCTGGCGGACTTTGGCGTGGCTGGCCAGTGACAGACACCCAGATCA  
AAAGGAACACCTTCGTGGCACCCATTCTGGATGGCACCCGAGGTCATCAAACAGTTGG  
CCTATGACTCGAAGGCAGACATCTGGTCCCTGGGCATAACAGCTATTGAACTTGCAAGAG  
GGGAACCACTCATTCCGAGCTGCACCCATGAAAGTTTTATTCCCTATTCCAAAGAAACA  
ACCCACCGACGTTGGAAGGAACTACAGTAAACCCCTCAAGGAGTTTGTGGAGGCCTGTT  
TGAATAAGGAGCCGAGCTTTAGACCCACTGCTAAGGAGTTATTGAAGCACAAGTTATAC  
TACGCAATGCAAAGAAAACCTTCTACTTGACCGAGCTCATCGACAGGTACAAGAGATGGA  
AGGCCGAGCAGAGCCATGACGACTCGAGCTCCGAGGATCCGACGCGGAAACAGATGGCC  
AAGCCTCGGGGGCAGTGATTCTGGGGACTGGATCTTCACAATCCGAGAAAAAAGATCCCA  
AGAATCTCGAGAATGGAGCTCTTCAGCCATCGGACTTGGACAGAAATAAGATGAAAGACA  
TCCCAAAGAGGCCTTTCTCAGTGTTTATCTACAATTATTTCTCCTCTGTTTGCAGAGT  
TGAAGGAGAAGAGCCAGGCGTGCAGGAGGAACTTGGGGTCCATTGAAGAGCTGCGAGGGG  
CCATCTACCTAGCGGAGGAGGCGTGCCTGGCATCTCCGACACCATGGTGGCCAGCTCG  
TGCAGCGGCTCCAGAGATACTCTAAGTGGTGGAGGAACTTCATCCCACTGA



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003576 unedited  
 TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTCCGGCCGGCCCC  
 GCCGCCGAGGGCTGCGCGCGGCCCGGGGCTCGCCGCCCGCGCGGATCGTCGCGGCC  
 CGGCCGTCCCCTCCAGGAAGTGGCCGTCTGAGCGCCATGGCTCACTCCCCGGTGCAGT  
 CGGGCTGCCCGGCATGCAGAACCTAAAGGCAGACCCAGAAGAGCTTTTTACAAACTAG  
 AGAAAAATTGGGAAGGGCTCCTTTGGAGAGGTGTTCAAAGGCATTGACAATCGGACTCAGA  
 AAGTGGTTGCCATAAAGATCATTGATCTGGAAGAAGCTGAAGATGAGATAGAGGACATTC  
 AACAAAGAAATCACAGTGTGAGTCACTGAGTGTGACAGTCCATATGTAACCAAATATTATGGAT  
 CCTATCTGAAGGATACAAAATTATGGATAATAATGGAATATCTTGGTGGAGGCTCCGCAC  
 TAGATCTATTAGAACCTGGCCATTAGATGAAACCCAGATCGCTACTATATTAAGAGAAA  
 TACTGAAAGGACTCGATTATCTCCATTCGGAGAAGAAAATCCACAGAGACATTAAGCGG  
 CCAACGTCTGTCTGAGCATGGCGAGGTGAAGCTGGCGGACTTTGGCGTGGCTGGCC  
 AGCTGACAGACACCCAGATCAAAGGAACACCTTCGTGGGCACCCCATNCTGGNATGG  
 CAACCCGAGTCATCAAACAGTTGGCCTATGACTCGAAGCAGACATCTGGTCCCTGGCATA  
 CAGCTATTGAACTTGAGAGGGGACCCCTTTNCGACTGACCCTTGGGAGTTTTATTCTA  
 TTCAAGACACCACCCGGTTTGAAGAAGCTCAGTACCTCAGGGGTC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_003576 unedited  
 TAGAGTCGAGTTTTTTTTTTTTTTTTTTCGCGTGTATAAAATTTATTTGTGAAGCATT  
 AGACATTTTTAGGTGGGAAAGATGATATGCAGAAATCCACTACAAGGTGCAACAGAAAATC  
 GTATTGAAAGGACGGTACATCTGGCGCAGACCAGCAGTGGCACGATTCCAAACAATGT  
 CAGACGAGAGCGCTTCATGGGGAGAACTGAAAATTATAATTTAAAGCTTCATGAGGCAA  
 GATATGTTCCAATTTAAACACTAAGAAATAGTACCATCGATGAAAAAGGAAATCAACCT  
 CTAGGTGTACAAAAGGGGCGTAGGGCAAACGGGGAAAATTTGCATTTGTTGAGGTACAA  
 ATAGGAGTGTCTGTAAGAGAGGGGCATTAATTATTAATGACAAAACCTGCAAATACAAA  
 ATAAAACCCAAATCACTGGTCACAGAATTCAAATGTACATGTAATAAAGGCAAGGCAAT  
 AGACTCAAGTTATGGCCTGTGCAATATTTACTCCACTGACGTTATCTACAGAAGCACTTG  
 GCCAGTTTGTACACAGTATTCTTATGCACGCCGAAAGGGTTTNCGTAAAAATGACATT  
 ATATAAAATCTGTACACCCATTACCAGAGCGATTCTCCAGCTNCCAGAGGGGAGTATC  
 AACTTTAAGCAGGATACCTGAGGNTTCATGTCTTTAGNTGCCTTATCATATCCCAATATA  
 CATTNAGGGNTTTGTTTTGNTTTTAANGACACTTTTCTGGNATATGTGCACTTTGGGNT  
 AAATTAACAAAAGATATAAATAAATAAAGATCGCTGGAGGAGCTGACCTNCCCACCAT  
 CTGAAGACTTCATCTGCTGAGCACANTGAACTGGTGTGTTCTGACGGGCGCTGCATGG  
 GTTGGCTCANGGCGCACTCTTCGTGAGTCGCGAGCTTTCGTGCTTTAAAAGGGGGNTGA  
 GAGGAANAGAAAACAACCCATGCCAGGATCTGGGGTGGAGTCTCCCTAAAGATCTTGAG  
 CTTCCACTGCCCTGGGTCAGAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003576

**Insert Size:**

2440 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

**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:**

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:** [NM\\_003576.1](#), [NP\\_003567.1](#)

**RefSeq Size:** 1970 bp

**RefSeq ORF:** 1296 bp

**Locus ID:** 8428

**UniProt ID:** [Q9Y6E0](#)

**Cytogenetics:** 13q32.2

**Domains:** pkinase, TyrKc, S\_TKc

**Protein Families:** 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 (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.