

Product datasheet for **SC323356**

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>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003576, the custom clone sequence may differ by one or more nucleotides

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ATGGACTCCAGAGCCCAGCTTTGGGGACTGGCCTTGAATAAAAGGAGGGCCACTCTACCTCATCCTGGAG
GGAGCACGAACCTAAAGGCAGACCCAGAAGAGCTTTTTACAAAAGTAGAGAAAATTGGGAAGGGCTCCTT
TGGAGAGGTGTTCAAAGGCATTGACAATCGGACTCAGAAAGTGGTTGCCATAAAGATCATTGATCTGGAA
GAAGCTGAAGATGAGATAGAGGACATTCAACAAGAAATCACAGTGCTGAGTCAGTGTGACAGTCCATATG
TAACCAAAATATTATGGATCCTATCTGAAGGATACAAAATATGGATAATAATGGAATATCTTGGTGGAGG
CTCCGCACTAGATCTATTAGAACCTGGCCATTAGATGAAACCCAGATCGCTACTATATTAAGAGAAATA
CTGAAAGGACTCGATTATCTCCATTCGGAGAAGAAAATCCACAGAGACATTAAGCGGCCAACGTCCTGC
TGTCTGAGCATGGCGAGGTGAAGCTGGCGGACTTTGGCGTGGCTGGCCAGCTGACAGACACCCAGATCAA
AAGGAACACCTTCGTGGGCACCCATTCTGGATGGCACCCGAGGTCATCAAACAGTCGGCCTATGACTCG
AAGGCAGACATCTGGTCCCTGGGCATAACAGCTATTGAACTTGCAAGAGGGGAACCACTCATTCCGAGC
TGCACCCCATGAAAGTTTTATTCCCTCATTCCAAAGAACAACCCACCGAGCTTGGAAGGAAACTACAGTAA
ACCCCTCAAGGAGTTTGTGGAGGCTGTTTGAATAAGGAGCCGAGCTTTAGACCCACTGCTAAGGAGTTA
TTGAAGCACAAGTTTATACTACGCAATGCAAAGAAAATTCCTACTTGACCGAGCTCATCGACAGGTACA
AGAGATGGAAGGCCGAGCAGAGCCATGACGACTCGAGCTCCGAGGATCCGACCGGAAACAGATGGCCA
AGCCTCGGGGGCAGTGATTCTGGGACTGGATCTTACAATCCGAGAAAAAGATCCCAAGAATCTCGAG
AATGGAGCTCTTCAGCCATCGGACTTGGACAGAAATAAGATGAAAGACATCCCAAAGAGGCCTTTCTCTC
AGTGTTTATCTACAATTATTTCTCTCTGTTTGCAGAGTTGAAGGAGAAGAGCCAGGCGTGCAGGAGGAA
CTTGGGTCCATTGAAGAGCTGCGAGGGCCATCTACCTAGCGGAGGAGGCGTGCCTGGCATCTCCGAC
ACCATGGTGGCCAGCTCGTGCAGCGGCTCCAGAGATACTCTAAGTGGTGGAGGAACTTCATCCCACT
GA

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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for mutant NM_003576 unedited</p> <pre>CCGCCGTTTGAGCAATGGGCGGTAGGCGTGTACGGCTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA ACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCAGGAGCTCCGGCCGCC CGCCGCCGAGGGCTGCGCGCGGCCCGGGCCTCGCCGCCCGCGGGATCGTCGCGGCCCGGCCGTCC CGTCCCAGGAAGTGGCCGTCTGAGCGCCATGGCTCACTCCCCGGTGCAGTCGGGCTGCCCGGCATGCA GAACCTAAAAGGCAGACCAGAAGAGCTTTTTACAAAATAAAAAAATGGGAAGGGCTTCTTTTGGAG TTGGTGTTCAAAAGGCATTTGACAATCGAACTAAAAGTGTGGTTGCCATAAGGATCAATTGTTCTGGG AGGAAGCCTGAAAAGAAAAAAGGACTTTTCAACAAAAATCCAGGGCTTGATTTATTGGGGAA CATTCCCTTTGGTACCAATTTTAGGGTTTCAACTAAAGGAACCAAAATTTGGGAAAAAAGGAAA TTTTTTGGGGGAGGGCCCGCCAATTTTTTTTAAACCGGCCCATTTATAAAAAACCCATTATCC TCTATATTTAAAAAATCTGGAGGGCGTATTTTCCCTTTTCAGAAAAAACCCTTCCAAA AATTTTAAAGGCCCAATCCTCCGTGTCGCAATAGGGGAGAGAAAAATAGGGGAGATTTTGTGGGTG GGTCGCATAAAAAAACCCTGATAAAAAGAGAGCAACTCTCGGGCGACCTCTGTAGGGTACCACGAG TGCTCACGATATGTGTACGAGTAGACAAGAGAA</pre>
Kinase Domain Sequence:	<p>>SC323356 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation</p> <pre>CGACGMGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC AGAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCAGGAGCTCCGGCCGCCCGCCG CCGAGGGCTGCGCGCGGCCCGGGCCTCGCCGCCCGCGGGATCGTCGCGGCCCGGCCGTCCCGTCC AGGAAGTGGCCGTCTGAGCGCCATGGCTCACTCCCCGGTGCAGT</pre>
Restriction Sites:	Please inquire
ACCN:	NM_003576
Insert Size:	2440 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
OTI Annotation:	<p>This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.</p>
Components:	<p>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).</p>

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.