

## Product datasheet for **SC123756**

### MST1 (STK4) (BC005231) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MST1 (STK4) (BC005231) Human Untagged Clone
Tag:	Tag Free
Symbol:	MST1
Synonyms:	dj211D12.2 (serine/threonine kinase 4 (MST1, KRS2)); DKFZp686A2068; kinase responsive to stress 2; KRS2; mammalian sterile 20-like 1; MST1; OTTHUMP00000043418; serine/threonine kinase 4; yeast Ste20-like; YSK3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC005231 edited AGGTCCGCGGGAGGATGGAGCAGTGAGCGGGTCTGGGCGGCTGCTGGCAGCGCCATGGAG ACGGTACAGCTGAGGAACCCGCCGCGCCGCGCAGCTGAAAAAGTTGGATGAAGATAGTTTA ACCAAACAACCAGAAGAAGTATTTGATGTCTTAGAGAACTTGGAGAAGGGTGAGTGTA AGAAACTATAGGTAGGTCAATGGGTCCCAGTCTTTTTCTGCCCCAGAAGAAGCAGAAGG ATATGAACCTTTACAGATTGTTCTAGGTGGGGTGAAGGTAATTTACAGCTTGTGATGT CCTTCTTCGCTTTACTCCAATCCCTATTATAGACAGATTTAGTGATTCTGGTCTTTTTA ACACGAAGAATATCTATTGTTTTCTTTTTGTAGGATCTGTATGATTTTACTACTTAAC AGATAGCACTAATTAGATTAATAATTCTATAAGAACTTTTTAATTTGCTGTTCAATTT CTGATTGGTATGCAATAACTGTTTCAATGAAAATCAATGTAATTTAGTATTTAATATTT GCACCTTTGTGAAATATAGTAAATAAATTAAGCACTATCACACCTTCACAGCTACTTAG GAGATCCACAATCCTGGGTTGGGAGCCAGTGGATTTCTGAAACACAGATTTGTTAATGC GTTTATAAAATACTGATGAAATGATATTAGTAATGTGCAGTGACCATCATTGACTTTTCAT GATACAATTAAGTTTACATAATTTTATACTTTTATATATCATTTTAATTC AATCCTGTG TATTTATTCCTTCTTCTGTAATGACCAGGAAATTAATGTTAATGACACCATTTCTTAA GTTTTTCTTGTTAATTTTGAATAGCGGATACAATCATATGATTCAAATTTAAAAAAT ATTAAGACGCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC005231 unedited NCCTGTTCCGGATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCCATTACGGCCGG GGAGGTCCGCGGGAGGATGGAGCAGTGAGCGGGTCTGGGCGGCTGCTGGCAGCGCCATGG AGACGGTACAGCTGAGGAACCCGCGCCGCGCAGCTGAAAAAGTTGGATGAAGATAGTT TAACCAACAACCAGAAGAAGTATTTGATGTCTTAGAGAACTTGGAGAAGGGTGAGTGT AAAGAACTATAGGTAGGTCATTGGGTCCCAGTCTTTTCTGCCCCAGAAGAAGCAGAA GGATATGAACCTTTCAGCATTGTTCTAGGTGGGTGGAAGGTAATTTACAGCTTGTGAT GTCCTTCTCGCTTTACTCCAATCCCTATTATAGACAGATTTAGTGATTCTGGTCTTTT TAACACGAAGAATATCTATTGTTTTCTTTTTGTAGGATCTGTATGATTTTATCTACTTA ACAGATAGCACTAATTAGATTAATAATTCTATAAGAACTTTTTAATTTGCTGTTCCATAAT TTCTGATTGGTATGCAATAACTGTTTCAATGAAAATCAATGTAATTTAGTATTTAATAT TTGCACCTTTGTAAATATAGTAAATAAATTAAGCACTATCACCACCTTCACAGCTACTT AGGAGATCCACAATCCTGGGTTGGGAGCCAGTGGATTTCTGANACACAGATTTGTTAAT GCGTTTATAAAAATACTGATGAAATGATATTAGTAAATGTGCAGTGACCATCATTGACTTTC ATGATACAATTAAGTTTACATAATTTTTATACTTTTATATATCATTTTAATTCAATCCTG TGTATTTATTCTTCTNCTGTAATGACCAGGAAATTAATGTTTATGACACCTT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC005231
<b>Insert Size:</b>	942 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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="#">BC005231.1</a> , <a href="#">AAH05231.1</a>
<b>RefSeq Size:</b>	942 bp
<b>Locus ID:</b>	6789
<b>Cytogenetics:</b>	20q13.12
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	MAPK signaling pathway, Non-small cell lung cancer, Pathways in cancer

**Gene Summary:**

The protein encoded by this gene is a cytoplasmic kinase that is structurally similar to the yeast Ste20p kinase, which acts upstream of the stress-induced mitogen-activated protein kinase cascade. The encoded protein can phosphorylate myelin basic protein and undergoes autophosphorylation. A caspase-cleaved fragment of the encoded protein has been shown to be capable of phosphorylating histone H2B. The particular phosphorylation catalyzed by this protein has been correlated with apoptosis, and it's possible that this protein induces the chromatin condensation observed in this process. [provided by RefSeq, Jul 2008]