

Product datasheet for **SC102841**

MST1 (STK4) (AK027088) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MST1 (STK4) (AK027088) Human Untagged Clone
Tag:	Tag Free
Symbol:	MST1
Synonyms:	KRS2; MST1; YSK3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK027088, the custom clone sequence may differ by one or more nucleotides

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TTTTGTTTCAGGAATGTGTGCACCCAGCTTGCTGATCCAACAAAGTCTATTGCTTACCAGTCTAGCTTGA
TGAAGCCTTTTGGCCAGAAGTCAATTTGTTTGGATCAGAGAAATTCCTGACAAGGTATATTTGTTTTTC
TAGTGACAGAAAGGCAAAGGAACAAGTCTAGTTGTTGTTGTTGTTGTTGAATACTAAATTTAAGATATG
TCAGCTTGCTTTCAATGAGCCTTGGGCTTCTGTTATTGCTTGAGCATTGGAACTCGAGCTTCCAGAGAA
ATTTGAGTCTCGCTTGTCTCTGCCTCAAGAAACAATGACCTGATTCTGTCTTTAAAAAAAATCT
CAGAATCTTTTTTGTGTGTTTTTTTTTTTTTTTGGAGACAGAGTCTCACTCTGTTGCCAGGCTGGAG
TGCAGTGGCGCCATCTCGGCTCACTGCAACCTCCGCTCCAGGTTCAAGCAATTCTCCTGCCTCAGCCT
CCCAGGTAGCTGCCACTACAGGTGCTGCACCACCGCCCGGCTAATTTTGTATTTTAGTAGAGACAG
GGTTTCACCATATTAGCCAGGTGGTCTTGAACCTCTGACCTTGTGATCCACCCGCTCGGCTCCACGC
TTGTCAGGAGGCTGAAGTGGGAGGATCACCTGGGCCAGGGAGGTCAAGGATGCAGTGAGCCATGGTCTC
ACCACTGCACTCTAGCCTGGGTGACAGAATGAGACCCCGTCTCAAAAAAAAAAAGAAGTAGATAATCTG
AATAGCCCTATATCTATAGAACTTAATAGTGTGGGAGATATAGGTATTATTATCTCATTTTACAGAT
GTGAAAATTGAGGCTCAGAGAAGTAAAGTCTATTGCTCAAGGTCATGTGGCTAGAATATGGCAGAGCCAT
GATTCAGATCCAGGCTTCTGATTCTTATTCCAGTGTCTTTCTAGCATAACCATGTTGCCTCTAAGATT
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TGTACAGTTTAAAAATGTGAAGTTTGTAGCTTTAACTTTTTGTAAGAAAATCTAATAACACTGGCTTAAG
TGCTGACTTGAATGCTATTTTGAAGTTTGGATGTAAGTAATCAATTGAGGTCAGCAGTTTGTATGAG
ACATAGCTTCTCCATTGCCCCACTCCTTTTTCTTTTTTAAGTTTGAAGTCTCCTGTGTTTTTATG
TTAGAATTGTTGTTCTCCTTCTTTCTTCTTCTATACCTCATCACGTTTGTGTTTAAATAAACTGCCTT
TGGACCACAAACCCTTATTAACGAGAACCTCAATAAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for AK027088 unedited
 ATTTTGTAAATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGNANAAAGCCCAT
 TTTCTCCCTTCTAAGCTAGATCCAAATAAAAGAAAGTTCAGTTTTCCCCATAACTATT
 CTTGGGTCATGAACCTTGTATCTGGAGTTTGTGTTTTCAGGAATGTGTGCACCCAGCTT
 GCTGATCCAACAAAGTCTATTGCTTACCAGTCTAGCTTGATGAAGCCTTTGGCCAGAAG
 TCAATTTGTTTGGATCAGAGAAATTCCTGACAAGGTATATTTGTTTCTAGTGACAGA
 AAGGCAAAGGAACAAGTCTAGTTGTTGTTGTTGTTGTTGAATACTAAATTTAAGATATG
 TCAGTTGCTTTCAATGAGCCTTGGGCTTCTGTTATTGCTTGAGCATTGGAACTCGAGC
 TTCCAGAGAAATTTGAGGTCCTCGCTTGTCTCTGCCTCAAGAAACAATGACCTGATTC
 TGTCTTTAAAAAATACTCAGAATCTTTTTTGTGTTGTTTGTGTTTTTTTTTTTTTTGG
 AGACGGAGTCTCGCTCTGTTGCCAGGCTGGAGTGCAGTGGCGCCATCTCGGCTCACTGC
 AACCTCCGCTCCAGGTTCAAGGAGTCTCTGCCTCAGCTCCAGGTAGCTGCCACT
 ACAGGTGCTGCACCACCGCCGCTAATTTTTGTATTTTAGTAGAGACAGGTTTTCA
 CCATATTAACCAGGTGGGTCTTGAACCTCTGACCTTNGATCCACCCGCTCTGCCTCC
 CAGCTTGTGAGGAGCCTGAAGTGAAGGATCACCTGGCCCCAGGGGTCGAGGATGCAN
 TGAGCCATGGTCTCACCCTGACTCTAGCCTGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for AK027088 unedited
 NGGTTCACTATGNNACCGCGCCGCATNCTAGNGATCGATTTTTTTTTTTTTTTTTTTGTG
 GTCCAAAGGACAGTTTATTTAAAACAACGTGATGAGGTATAGGAAGAAGAAAAGGA
 GAACAACAATTCTAACATAAAAACACAGGAAGCATCTCAAACCTAAAAAAGAAAAAGGA
 GTGGGGCAATGGAGGAAGCTATGTCTCATAAACTGCTGACCTCAATTGATTACTTAC
 ATCCAAACCTTACAAAATAGCATTTCAGTCAGCACTTAAGCCAGTGTATTAGATTTTC
 TTACAAAAGTTAAAGCTACAACTTCACATTTTTAACTGTACATAGCAAAAACATTTA
 AGCTTTTTTTTTTCCAAGTTGGTCCGAGTGCAAGCTGGTAAAAGAGATTTTTTTTCCAAA
 CACAAACAAGAACATGTATTCCAAAGACAATGAATATAATACTGATAAAAACACAAACAT
 AGTGCTTAAGAAAAGATGGGGTGGAGTGGAGATGTAGATTGGGCAGGAACAATTTCTAG
 TAAATAAGGAGCTGCAATCTTTAGAGGCAACATGGTATGCTAGAAAGGACACTGGAATAA
 GAATCAGAAGACCTGGATCTGAATCATGGCTCTGCCATATTCTAGCCACATGACCTTGAG
 CAATAGACTTTACTTCTCTGAGCCTCAATTTTACATCTGTAAAATGAGGATAATAATAC
 CTATATCTCCAGCACTATTAAGTTTCTATAGATATAGGGCTATTCAGATTATCTACTTC
 TCTTTTTTTGGAGAAAAGGGGCTCACTCTGGGACCCAGGCAAGAATGCATTGGTGA
 AGACATGGGTTCACTGCATCCTCGAACCCTGGGGCCCCAGTGATCCTCCATTAAAGC
 CTCTTGACAGGCTGGAG

Restriction Sites:

NotI-NotI

ACCN:

AK027088

Insert Size:

1710 bp

OTI Disclaimer:

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).

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: [AK027088.1](#)

RefSeq Size: 1523 bp

RefSeq ORF: 1523 bp

Locus ID: 6789

Cytogenetics: 20q13.12

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: 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]