

Product datasheet for **SC114204**

MST4 (STK26) (NM_016542) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MST4 (STK26) (NM_016542) Human Untagged Clone
Tag:	Tag Free
Symbol:	MST4
Synonyms:	MASK; MST4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_016542 edited
 ATGGCCCACTCGCCGGTGGCTGTCCAAGTGCCTGGGATGCAGAATAACATAGCTGATCCA
 GAAGAAGTGTTCACAAAATTAGAGCGCATTGGGAAAGGCTCATTGGGGAAGTTTCAA
 GGAATTGATAACCGTACCCAGCAAGTCGTTGCTATTAATCATAGACCTTGAGGAAGCC
 GAAGATGAAATAGAAGACATTCAGCAAGAAATAACTGTCTTGAGTCAATGTGACAGCTCA
 TATGTAACAAAATACTATGGGTCATATTTAAAGGGTCTAAATATGGATAATAATGGAA
 TACCTGGGCGGTGGTTCAGCACTGGATCTTCTTCGAGCTGGTCCATTTGATGAGTCCAG
 ATTGCTACCATGCTAAAGGAAATTTTAAAGGTCTGGACTATCTGCATTAGAAAAGAAA
 ATTCACCGAGACATAAAAGCTGCCAATGTCTTGCTCTCAGAACAAGGAGATGTTAACTT
 GCTGATTTTGGAGTTGCTGGTCACTGACAGATACACAGATTAAGAAAATACCTTTGTG
 GGAAGTCCATTTGGATGGCTCCTGAAGTTATTCAACAGTCAGCTTATGACTCAAAGCT
 GACATTTGGTCAATGGGAATTACTGCTATTGAACTAGCCAAGGGAGAGCCACCTAACTCC
 GATATGCATCCAATGAGAGTTCTGTTTCTTATTCCCAAAAACAATCCTCCAATCTTGT
 GGAGACTTTACTAAGTCTTTAAGGAGTTTATTGATGCTTGCCTGAACAAAGATCCATCA
 TTTTCGCTACAGCAAAAGAAGTCTGAAACACAAATTCATTGTAAAAATTCAAAGAAG
 ACTTCTTATCTGACTGAAGTATAGATCGTTTTAAGAGATGGAAGGCAGAAGGACACAGT
 GATGATGAATCTGATCCGAGGGCTCTGATTCGGAATCTACCAGCAGGAAAAACAATACT
 CATCCTGAATGGAGCTTTACCACCGTACGAAAGAAGCCTGATCCAAGAAAAGTACAGAAT
 GGGCAGAGCAAGATCTTGTGCAACCCGAGTTGTTTGTCTATGATAATCACACCTGCA
 TTTGCTGAACTTAAACAGCAGGACGAGAATAACGCTAGCAGGAATCAGGCGATTGAAGAA
 CTGAGAAAAGTATTGCTGTGGCTGAAGCCGCTGTCCCGGCATCACAGATAAAATGGTG
 AAGAACTAATTGAAAAATTTCAAAGTGTTCAGCAGACGAATCCCCCTAA



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5' Read Nucleotide Sequence: >OriGene 5' read for NM_016542 unedited
 CCATTCGCTCGAGGCGGCATCACTTTAGCCAGGTCCCAGCCACCACCCTCATTTCGC
 TCGGCGTTCAGGAAGAGGAGCAGCAGCGGAGGCGGCTGCTTCAGCGGCGGGCGGCCA
 GAAAGGCCCGATCGAAAAGCCTGGGAGGGCCGCCAATACCCCGGAGGTGAGGATCC
 AGTCCGAACCTATGCGCCTCCGCCGAGAAGCGGATCGAGGCAGCATTGCGCTCCATGG
 CCCACTGCGCGGTGGCTGTCTAGTGCCTGGGATGCAGAATAACATAGCTGATCCAGAAG
 AACTGTTCACAAAATTAGAGCGCATTGGGAAAGGCTCATTGGGGAAGTTTTCAAAGGAA
 TTGATAACCGTACCCAGCAAGTCGTTGCTATTAATAATCATAGACCTTGAGGAAGCCGAAG
 ATGAAATAGAAGACATTAGCAAGAAATAACTGTCTTGAGTCAATGTGACAGCTCATATG
 TAACAAAATACTATGGGTCAATTTAAAGGGTCTAAATTATGGATAAATGGAATACC
 TGGGCGGTGGTTCAGCACTGGATCTTCTCGAGCTGGTCCATTTGATGAGTTCAGATTG
 CTTCCATGCTAAAGGAAATTTAAAGGCTGGACTATCTGCATTAGAAAAGAAAATTC
 CCCGAGACATAAAAAGTCCCAATGTCTTCTCAGAACAGGAGATGTTAACTTGCTGA
 ATTTGGATTTGCTGGTCACTGACAGAACCAGATTAAGAAAACCCCTTTGGGGAACTC
 CATTGGGAGGGCTCCTGAAGTTATTCAACAGCAACCTTATGACTCANAAGCTGACCTTT
 GTCATTGGGAATACTGCTATGAACTAG

3' Read Nucleotide Sequence: >OriGene 3' read for NM_016542 unedited
 CCGCGGCCGAATCTAGAGTTTTTTTTTTTTTTGACTGTGAAATTTAAATATTTATTTT
 CAAAACCCCTAAAACACTGGAGTATGCTTACCTAGAAACAGATTACAGGACGAATAGCT
 ATAATGAATAAGCAATACAATTTGTATTTGGGATGCAATTGTGTTGTAAGTTTCAAATA
 ATCAATTTATAAATTTGCTGCTTTTACTTTTACAAAAATTTCAATTAACCCATAACATG
 AGTTGCAAAATATCTCCAGACTTCTACAGATGATTATAAACTGTAATTGTGTTTCAGCT
 ACACAGCAGGTGAAAAATTAACCTCGAACCGTACTTTAAAATACAATGCATTAACAATAA
 TTGTTACAATATAGGCACCAATAAAAAGAATTTCTGGCATAACACACCACCACAACCTT
 TTTAAGTATCCTGCATTATGCAAAATAACAAAGAGGGAGTAATGCCACTTTTCGCTAA
 AACTGTTTTCTTACCGACGAATATCTTCTTTAACTATTTACCCTACTCAAATTTT
 CTTTACCGGCTCTTCTTCACTACCCACATTTGTATATCCACCCCAATCCCCACCAT
 CAACCCCATTTCCACCTTTCTTTTCCACTCGCTCCCTTTTCTTTCCCCCCCC
 ACCTCTCTTTCTCCCTCTTCTCCCTATTTTTCCCCCTTCTCCTCTCCACCCCTTTCT
 TCTTCTCCTTTCTTTTTTTTCTTTATTTCCCTTTTCTTCTTCTCGGCTCCCTTTCT
 CCCCTTTCTTCCCTTATCTCCCCCATTTTCCCCCTCTCCATTCTTTCCCTCCCC
 CCCCTTCTTTCCCCCCCCCTTTCTCTCCTTTACCCACTTTCATTTATCTCTTCT
 CGTACCCCTCCCCCTACCACACTTCTTCTCCTTCTTCTTCTCTCTCCCTCCACCA
 TCTTCCCTTCCACTTCCCCATTTTCCACTACTCACT

Restriction Sites: NotI-NotI
ACCN: NM_016542
Insert Size: 3180 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 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_016542.2](#), [NP_057626.2](#)

RefSeq Size: 3263 bp

RefSeq ORF: 1251 bp

Locus ID: 51765

UniProt ID: [Q9P289](#)

Cytogenetics: Xq26.2

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: The product of this gene is a member of the GCK group III family of kinases, which are a subset of the Ste20-like kinases. The encoded protein contains an amino-terminal kinase domain, and a carboxy-terminal regulatory domain that mediates homodimerization. The protein kinase localizes to the Golgi apparatus and is specifically activated by binding to the Golgi matrix protein GM130. It is also cleaved by caspase-3 in vitro, and may function in the apoptotic pathway. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the predominant transcript and encodes the longest isoform (1).