

## Product datasheet for SC311255

### MST4 (STK26) (NM\_001042453) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MST4 (STK26) (NM_001042453) Human Untagged Clone
Tag:	Tag Free
Symbol:	MST4
Synonyms:	MASK; MST4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311255 representing NM_001042453. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCCACTCGCCGGTGGCTGTCCAAGTGCCTGGGATGCAGGGGTCTAAATTATGGATAAATGGAA
TACCTGGCGGGTGGTTCAGCACTGGATCTTCTTCGAGCTGGTCCATTTGATGAGTTCAGATTGCTACC
ATGCTAAAGGAAATTTTAAAGGCTGGACTATCTGCATTAGAAAAGAAATTCACCGAGACATAAAA
GCTGCCAATGCTTGTCTCAGAACAGGAGATGTTAACTTGTGATTTGGAGTTGCTGGTCAGCTG
ACAGATACACAGATTAAGAAATACCTTTGTGGGAATCCATTTGGATGGCTCCTGAAGTTATCAA
CAGTCAGCTTATGACTCAAAGCTGACATTTGGTCAATGGGAATTACTGCTATTGAACTAGCCAAGGGA
GAGCCACCTAACTCCGATATGCATCCAATGAGAGTTCTGTTTCTATTCCAAAAACAATCCTCCAAC
CTTGTTGGAGACTTTACTAAGTCTTTAAGGAGTTTATTGATGCTTGCCTGAACAAAGATCCATCATTT
CGTCTACAGCAAAGAATCTTCTGAAACACAAATTCATTGTAATAAAATTCAAAGAAGACTTCTTATCTG
ACTGAACTGATAGATCGTTTTAAGAGATGGAAGGCAGAAAGACACAGTATGATGAATCTGATCCGAG
GGCTCTGATTCGGAATCTACCAGCAGGGAAAACAATACTCATCTGAATGGAGCTTTACCACCGTACGA
AAGAAGCCTGATCAAAGAAAGTACAGAATGGGGCAGAGCAAGATCTTGTGCAAACCTGAGTTGTTTG
TCTATGATAATCACACCTGCATTTGCTGAACTTAACAGCAGGACGAGAATAACGCTAGCAGGAATCAG
GCGATTGAAGAAGTACGAGAAAAGTATTGCTGGCTGAAGCCGCTGTCGCCGCATCACAGATAAAATG
GTGAAGAACTAATTGAAAAATTTCAAAAAGTGTTCAGCAGACGAATCCCCCTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001042453
Insert Size:	1020 bp



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<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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="#">NM_001042453.1</a>
<b>RefSeq Size:</b>	3121 bp
<b>RefSeq ORF:</b>	1020 bp
<b>Locus ID:</b>	51765
<b>UniProt ID:</b>	<a href="#">Q9P289</a>
<b>Cytogenetics:</b>	Xq26.2
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>MW:</b>	37.8 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter isoform (2), compared to isoform 1.</p>