

Product datasheet for **RG217776**

MST3 (STK24) (NM_003576) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MST3 (STK24) (NM_003576) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: STK24
Synonyms: HEL-S-95; MST3; MST3B; STE20; STK3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG217776 representing NM_003576
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACTCCAGAGCCAGCTTTGGGGACTGGCCTTGAATAAAAGGAGGGCCACTCTACCTCATCCTGGAG
 GGAGCACGAACCTAAAGGCAGACCCAGAAGAGCTTTTTACAAAACCTAGAGAAAATTGGGAAGGGCTCCTT
 TGGAGAGGTGTTCAAAGGCATTGACAATCGGACTCAGAAAGTGGTTGCCATAAAGATCATTGATCTGGAA
 GAAGCTGAAGATGAGATAGAGGACATTCACAAGAAATCACAGTGCTGAGTCAGTGTGACAGTCCATATG
 TAACCAAATATTATGGATCCTATCTGAAGGATACAAAATTATGGATAAATGGAATATCTTGGTGGAGG
 CTCCGCACTAGATCTATTAGAACCTGGCCATTAGATGAAACCCAGATCGCTACTATATTAAGAGAAATA
 CTGAAAGGACTCGATTATCTCCATTCGGAGAAGAAAATCCACAGAGACATTAAGCGGCCAACGTCTCTGC
 TGTCTGAGCATGGCGAGGTGAAGCTGGCGGACTTTGGCGTGGCTGGCCAGCTGACAGACACCCAGATCAA
 AAGGAACACCTTCGTGGGCACCCATTCTGGATGGCACCCGAGGTGATCAACAGTCGGCCTATGACTCG
 AAGGCAGACATCTGGTCCCTGGGCATAACAGCTATTGAACTTGCAAGAGGGGAACCACTCATTCCGAGC
 TGCACCCCATGAAAGTTTTATTCCTCATTCCAAGAACAACCCACCGACGTTGGAAGGAACTACAGTAA
 ACCCCTCAAGGAGTTTGTGGAGGCTGTTTGAATAAGGAGCCGAGCTTTAGACCCACTGCTAAGGAGTTA
 TTGAAGCACAAAGTTTATACTACGCAATGCAAAGAAAACCTCCTACTTGACCGAGCTCATCGACAGGTACA
 AGAGATGGAAGGCCGAGCAGAGCCATGACGACTCGAGCTCCGAGGATTCCGACGCGGAAACAGATGGCCA
 AGCCTCGGGGGCAGTGATTCTGGGGACTGGATCTTACAATCCGAGAAAAAGATCCCAAGAATCTCGAG
 AATGGAGCTCTTCAGCCATCGGACTTGGACAGAAATAAGATGAAAGACATCCCAAAGAGGCCCTTCTCTC
 AGTGTCTTCTACAATTTCTCCTCTGTTTGCAGAGTTGAAGGAGAAGAGCCAGGCGTGGGAGGGAA
 CTTGGGTCCATTGAAGAGCTGCGAGGGGCCATCTACCTAGCGGAGGAGGCGTCCCTGGCATCTCCGAC
 ACCATGGTGGCCAGCTCGTGCAGCGGCTCCAGAGATACTCTCTAAGTGGTGGAGGAACTTCATCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217776 representing NM_003576
 Red=Cloning site Green=Tags(s)

MDSRAQLWGLALNKRRATLPHPGGSTNLKADPEELFTKLEIKGKGSFGEVFKGIDNRTQKVVAIKIIDLE
 EAEDEIEDIQEITVLSQCDSPTYTKYYGSYLKDTKLWIIMEYLGGSALDLEPGPLDETIATILREI
 LKGLDYLHSEKKIHRDIKAANVLLSEHGEVKLADFGVAGQLTDTQIKRNTFVGTFFWMAPEVIKQSAYDS
 KADIWSLGITAIELARGEPPHSELHPMKVLFLLIPKNNPPTLEGNYSKPLKEFVEACLNKEPSFRPTAKEL
 LKHKFILRNAKKTSYLTIDRYKRWKAEQSHDDSSSDAETDQASGGSDSGDWIFTIREKDPKNLE
 NGALQPSDLDRNKMKDIPKRPFSQCLSTIISPLFAELKEKSQACGGNLSIEELRGAIYLAEEACPGISD
 TMVAQLVQRLQRYSLSGGGTSSH

TRTRPLE – GFP Tag – V

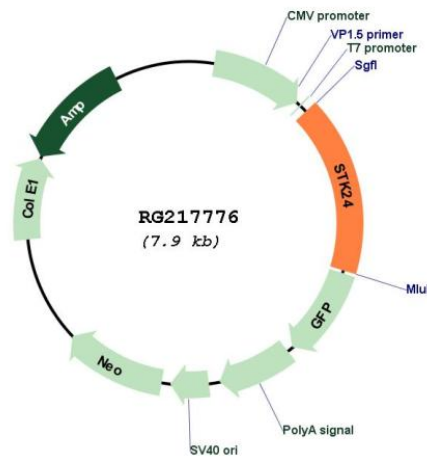
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_003576

ORF Size:	1329 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:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none"> 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_003576.4 , NP_003567.2
RefSeq Size:	4539 bp
RefSeq ORF:	1332 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]