

## Product datasheet for **RG212607**

### **MST4 (STK26) (NM\_016542) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MST4 (STK26) (NM_016542) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MST4
Synonyms:	MASK; MST4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212607 representing NM_016542 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCACTCGCCGGTGGCTGTCCAAGTGCCTGGGATGCAGAATAACATAGCTGATCCAGAAGAACTGT  
TCACAAAATTAGAGCGCATTGGGAAAGGCTCATTTGGGGAAGTTTTCAAAGGAATTGATAACCGTACCCA  
GCAAGTCGTTGCTATTAATCATAGACCTTGAGGAAGCCGAAGATGAAATAGAAGACATTCAGCAAGAA  
ATAACTGTCTTGAGTCAATGTGACAGCTCATATGTAACAAAATACTATGGGTCATATTTAAAGGGGTCTA  
AATTATGGATAAATGAATACCTGGGCGGTGGTTCAGCACTGGATCTTCTTCGAGCTGGTCCATTTGA  
TGAGTTCCAGATTGCTACCATGCTAAAGGAAATTTAAAAGGTCTGGACTATCTGCATTCAGAAAAGAAA  
ATTCACCGAGACATAAAAGCTGCCAATGTCTTGCTCTCAGAACAAGGAGATGTTAAACTGCTGATTTTG  
GAGTTGCTGGTCAGCTGACAGATACACAGATTAAGAAAATACCTTTGTGGGAACTCCATTTTGGATGGC  
TCCTGAAGTTATCAACAGTCAGCTTAGACTCAAAGCTGACATTTGGTCATTGGGAATTACTGCTATT  
GAACTAGCCAAGGGAGAGCCACCTAACTCCGATATGCATCCAATGAGAGTTCTGTTTCTTATCCAAAA  
ACAATCCTCCAACCTTTGTTGGAGACTTACTGAGTCTTTAAGGAGTTTATTGATGCTTGCTGAACAA  
AGATCCATCATTTGCTCTACAGCAAAAGAACTCTGAAACACAAATTCATTGTAATAAATTCAAAGAAG  
ACTTCTTATCTGACTGAACTGATAGATCGTTTTAAGAGATGGAAGGCAGAAGGACACAGTATGATGAAT  
CTGATTCGAGGGCTCTGATTCGGAATCTACCAGCAGGAAAACAATACTCATCCTGAATGGAGCTTTAC  
CACCGTACGAAAGAAGCCTGATCCAAAGAAAGTACAGAATGGGGCAGAGCAAGATCTTGCAAAACCTG  
AGTTGTTTGTCTATGATAATCACACCTGCATTTGCTGAACTTAAACAGCAGGACGAGAATAACGCTAGCA  
GGAATCAGGCGATTGAAGAACTCGAGAAAAGTATTGCTGTGGCTGAAGCCGCTGTCCCGCATCACAGA  
TAAATGGTGAAGAACTAATTGAAAAATTTCAAAGTGTTCAGCAGACGAATCCCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG212607 representing NM\_016542  
 Red=Cloning site Green=Tags(s)

MAHSPVAVQVPGMQNNIADPEELFTKLERIGKGSFGEVFKGIDNRTQQVVAIKIIDLEEADEIEDIQQE  
 ITVLSQCDSSYVTKYYGSKLWIIMEYLGGSALDLLRAGPFDEFQIATMLKEILKGLDYLHSEKK  
 IHRDIKAANVLLSEQGDVKLADFGVAGQLTDTQIKRNTFVGTFFWMAPEVIQQSAYDSKADIWSLGITAI  
 ELAKGEPNSDMHMPRVLFLIPKNNPPTLVGDFTESFKEFIDACLNKDPFRPTAKELLKHKFIVKNSKK  
 TSYLTELIDRFKRWKAEGHSDDESSESTSESTSESTSESTSESTSESTSESTSESTSESTSESTSEST  
 SCLSMIITPAFAELKQQDENNASRNQAIEELEKSI AVAE AACPGITDKMVKKLIEKFQKCSADESP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016542

**ORF Size:** 1248 bp

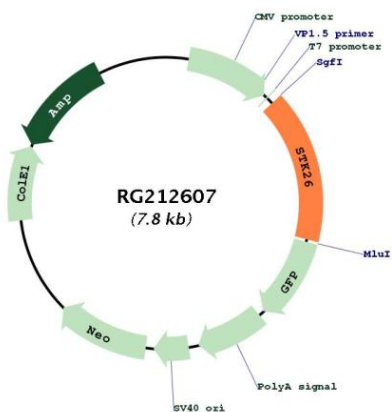
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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>	<u>NM_016542.4</u>
<b>RefSeq Size:</b>	3263 bp
<b>RefSeq ORF:</b>	1251 bp
<b>Locus ID:</b>	51765
<b>UniProt ID:</b>	<u>Q9P289</u>
<b>Cytogenetics:</b>	Xq26.2
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<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>

Product images:



Circular map for RG212607