

## Product datasheet for **SC113074**

### **MST1 (NM\_020998) Human Untagged Clone**

#### **Product data:**

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | Expression Plasmids                   |
| Product Name:             | MST1 (NM_020998) Human Untagged Clone |
| Tag:                      | Tag Free                              |
| Symbol:                   | MST1                                  |
| Synonyms:                 | D3F15S2; DNF15S2; HGFL; MSP; NF15S2   |
| Mammalian Cell Selection: | None                                  |
| Vector:                   | <u><a href="#">pCMV6-XL4</a></u>      |
| E. coli Selection:        | Ampicillin (100 ug/mL)                |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_020998, the custom clone sequence may differ by one or more nucleotides

```
ATGGGGCTGTGGTGGGTACAGTGCAGCCTCCAGCCAGAAGGATGGGGTGGCTCCCCTCTGCTGCTTC
TGACTCAATGCTTAGGGGTCCCTGGGCAGCGCTCGCCATTGAATGACTTCCAAGTGTCCGGGGCACAGA
GCTACAGCACCTGCTACATGCGGTGGTGGCCGGCCTTGGCAGGAGGATGTGGCAGATGCTGAAGAGTGT
GCTGGTCGCTGTGGGCCCTTAATGGACTGCCGGGCCTTCCACTACAACGTGAGCAGCCATGGTTGCCAAC
TGCTGCCATGGACTCAACACTCGCCCCACAGAGGCTGCGGCGTTCTGGGCGCTGTGACCTCTCCAGAA
GAAAGACTACGTACGGACCTGCATCATGAACAATGGGGTTGGGTACCGGGGCACCATGGCCACGACCGTG
GGTGGCCTGCCCTGCCAGGCTTGGAGCCACAAGTCCCAAATGATCACAAGTACACGCCACTCTCCGGA
ATGGCCTGGAAGAGAACTTCTGCCGTAACCCTGATGGCGACCCCGGAGGTCTTGGTGCTACACAACAGA
CCCTGCTGTGCGCTTCCAGAGCTGCGGCATCAAATCCTGCCGGGAGGCCGCTGTGTCTGGTGCAATGGC
GAGGAATACCGCGCGCGGTAGACCGCACGGAGTCAGGGCGGAGTGCCAGCGCTGGGATCTTCAGCACC
CGCACCAGCACCCCTTCGAGCCGGCAAGTTCCTCGACCAAGGTCTGGACGACAACTATTGCCGGAATCC
TGACGGCTCCGAGCGCCATGGTGTACTACTACGGATCCGCAGATCGAGCGAGAGTTCTGTGACCTCCCC
CGCTGCGGGTCCGAGGCACAGCCCCGCCAAGAGGCCACAACCTGTGAGCTGCTCCGCGGGAAGGGTGAGG
GCTACCGGGGCACAGCCAATACCACCACTGCGGGCGTACCTTGCCAGCGTTGGGACGCGCAAATCCCGCA
TCAGCACCATTACGCCAGAAAAATACCGGTGCAAAAGACCTTCGGGAGAACTTCTGCCGGAACCCCGAC
GGCTCAGAGGCGCCCTGGTGCTTCACTGCGGCCCGGCATGCGCGCGCCCTTTTGTACCAGATCCGGC
GTTGTACAGACGACGTGCGGCCCCAGGACTGTACCACGGCGCAGGGGAGCAGTACCGCGGCACGGTCAG
CAAGACCCGCAAGGGTGTCCAGTGCCAGCGCTGGTCCGCTGAGACGCCGCAAGCCGAGTTCAGTTC
ACCTCCGAAACCGCATGCACAACGGAGGAGAATTCTGCCGGAACCCAGATGGGGATAGCCATGGGCCCT
GGTGTACACGATGGACCAAGGACCCATTGACTACTGTGCCCTGCGACGCTGCGCTGATGACCAGCC
GCCATCAATCCTGGACCCCCAGACCAGGTGCAAGTTGAGAAGTGTGGCAAGAGGGTGGATCGGCTGGAT
CAGCGGGTTCGAAGCTGCGCGTGGTTGGGGGCCATCCGGGCAACTCACCTGGACAGTCAGCTTCCGGA
ATCGGCAGGGCCAGCATTCTGCGGGGGTCTCTAGTGAAGGAGCAGTGGATACTGACTGCCCGGCAGTG
CTTCTCCTCTGCCATATGCCTCTACGGGCTATGAGGTATGGTTGGCACCCCTGTTCCAGAACCCACAG
CATGGAGAGCCAAGCCTACAGCGGGTCCAGTAGCCAAGATGGTGTGGGCCCTCAGGCTCCAGCTTG
TCCTGCTCAAGCTGGAGAGATCTGTGACCCTGAACCAGCGTGTGGCCCTGATCTGCCTGCCCTGAATG
GTATGTGGTGCCTCCAGGGACCAAGTGTGAGATTGCAGGCTGGGGTGAGACCAAAGTACGGGTAATGAC
ACAGTCCATAAATGTGGCCTTGTGAATGTATCTCAACCAAGGAGTGAACATCAAGCACCAGGACCGTG
TGCGGGAGAGTGAGATGTGCACTGAGGGACTGTTGGCCCTGTGGGGCCTGTGAGGGTGACTACGGGGG
CCCCTTGCCTGCTTACCCACAACCTGCTGGGTCTGGAAGGAATTATAATCCCCAACCGAGTATGCGCA
AGGTCCCCTGGCCAGCTGTCTTACGCGTGTCTGTGTTTGTGGACTGGATTCACAAGGTCATGAGAC
TGGGTTAG
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_020998 unedited  
 NGGTTACATTTGTAAACGACTCATATAGGCGGCCGNAATTCGCACCAGNAAGGAGGG  
 GTGGCTCCCACTCCTGCTGCTTCTGACTCAATGCTTAGGGGTCCCTGGGCAGCGCTCGCC  
 ATTGAATGACTTCCAAGTGCTCCGGGGCACAGAGCTACAGCACCTGCTACATGCGGTGGT  
 GCCCGGCCCTTGGCAGGAGGATGTGGCAGATGCTGAAGAGTGTGCTGGTCGCTGTGGGCC  
 CTTAATGGACTGCCGGCCTTCCACTACAACGTGAGCAGCCATGGTTGCCAACTGCTGCC  
 ATGGACTCAACACTCGCCACACGAGGCTGCGGCGTTCTGGGCGCTGTGACCTTTCCA  
 GAAGAAAGACTACGTACGACCTGCATCATGAACAATGGGGTTGGGTACCGGGGACCAT  
 GGCCACGACCGTGGGTGGCTGCCTGCCAGGCTTGGAGCCACAAGTTCCCGAATGATCA  
 CAAGTACACGCCCACTCTCCGGAATGGCCTGGAAGAGAACTTCTGCCGTAACCCTGATGG  
 CGACCCCGGAGGTCTTGGTGCTACACAACAGACCCTGCTGTGCGCTTCCAGAGCTGCGG  
 CATCAAATCCTGCCGGGAGGCCGCTGTGTCTGGTGCAATGGCGAGGAATACCGCGGCGC  
 GGTAGACCGCACGGAGTCAGGGCGGAGTGCCAGCGCTGGGATCTTACGACCCCGCACCA  
 GCACCCCTTCGAGCCGGCAAGTCCCTCGACCAAGTCTGGACGACAACCTATTGCCGGAA  
 TCCTGACGGCTCCGAGCGGCCATGGTGCTACACTACGGATCCGCGAGATCGAGCGAGAGTT  
 CTGTGACCTCCCGCTGCGGGTCCGAAGCACAGCCCCGCAAGAGCCACAACCTGTCAGC  
 TGCTTCCGCGGGAAGGGTGAGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_020998 unedited  
 TTGCCGCAAATTTACTGTGNACCGCGCCGCTTANCTANGATCGATTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTACAGGCATAAAGAGGAAACATGGCTTTATG  
 TCTGACAAAAAGTTTTGTCTCCCAAGGCATATGGCATCAAGGCTGGGCTAACCCAGT  
 CTATGACCTTGTGAATCCAGTCCACAAACACAAAAACCCCTTGAAAACAGCTGGCCAG  
 CGGGACCTTGCGCATACTCGGTTGGGGATTATAATTCCTTCCAGGACCCAACAGTTGTGG  
 GTAAAGCAGGCAAGTGGGCCCCCGTAGTCACCCTCACAGGCCCCACAGGGGCCAACAGT  
 CCCTCAGTGCACATTTTACTTTCCCGCACACGTCCTCGGGGCTTGATGTTACACTCCTGG  
 TTGAAATGACATTACAGCAAGGCCACATTTAGGACTGTGTATTACCCGTACCTTTGGTC  
 TCACCCAGCCTGCAATCTCACACTTGGTCCCTGGAGGCCACACATACCATTACAGGGGGC  
 AGGCAAAATCAGGGCCACACGCTGGTTCAGGGTCACAGATCTCTCCAGCTTGAGCAGGACA  
 AGCTGGGAGCCTGAGGGCCACACACCATCTTGGCTACTGGGACCCGCTGTAGGCTTGGC  
 TCTCCATGCTGTGGGTTCTGGAACAGGGTGCCCAACCATACCTCATAACCCGTGAAAGGC  
 ATATGGCAGGAGGAAAAACACTGCCGGCAATCAGTATCCACTGGTCCTTCACTAAAAAC  
 CCCCAGAAAAATGCTGGCCCTGCCGATTCCCGCAGCTGACTGGCCAGGGGGAATTTCCC  
 GGATGGCCCCCACCACGCN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_020998

**Insert Size:**

2400 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:** [NM\\_020998.2](#), [NP\\_066278.2](#)

**RefSeq Size:** 2348 bp

**RefSeq ORF:** 2136 bp

**Locus ID:** 4485

**UniProt ID:** [P26927](#)

**Cytogenetics:** 3p21.31

**Domains:** KR, Tryp\_SPC, PAN, PAN\_AP

**Protein Families:** Druggable Genome

**Gene Summary:** The protein encoded by this gene contains four kringle domains and a serine protease domain, similar to that found in hepatic growth factor. Despite the presence of the serine protease domain, the encoded protein may not have any proteolytic activity. The receptor for this protein is RON tyrosine kinase, which upon activation stimulates ciliary motility of ciliated epithelial lung cells. This protein is secreted and cleaved to form an alpha chain and a beta chain bridged by disulfide bonds. [provided by RefSeq, Jan 2010]  
Transcript Variant: This variant (1) represents the longer, protein-coding transcript.