

## Product datasheet for **RG218273**

### **MTSS1 (NM\_014751) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MTSS1 (NM_014751) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTSS1
Synonyms:	MIM; MIMA; MIMB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG218273 representing NM\_014751  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGCTGTGATTGAGAAGGAATGCAGCGCGCTCGGAGGCCTCTTCCAGACCATCATCAGCGACATGA  
 AGGGGAGCTATCCAGTTTGGGAAGATTTATAAACAAAGCAGGAAAGCTGCAGTCCCAGCTTCGGACAAC  
 AGTAGTAGCAGCAGCTGCCTTCTTGAGCGCCTTTCAGAAAAGTGGCTGACATGGCCACCAACACACGTGGT  
 GGGACCAGGGAGATTGGATCTGCTCTACCAGGATGTGCATGAGGCACAGAAGCATTGAAGCCAAGCTGA  
 GGCAGTTTTGAGCGCTTAATTGATTGTCTGATAAACCCACTTCAAGAACAGATGGAAGAATGGAAGAA  
 AGTGGCCAACCAGCTGGATAAAGACCACGCAAAAGAATAAAGAAAGCCCGCAAGAGATAAAAAAGAAG  
 TCCTCGGATACGCTGAACTGCAGAAGAAAGCAAAAAAGGGAGAGGTGATATCCAGCCTCAGTTGGACA  
 GTGCTCTCCAAGATGTCAATGATAAGTATCTCTATTGGAAGAAACAGAAAAGCAGGCTGTCCGGAAGGC  
 TTTGATTGAAGAAGCTGGCCGATTCTGTACCTTCTCTATGCTGCGGCCAGTGATTGAAGAAGAATC  
 TCAATGCTAGGGGAAATAACCCACCTTCAGACCATCTCGGAAGATCTAAAAGCCTGACCATGGACCCTC  
 ACAAAGTCCCTCCTCAAGTGAACAGGTGATTCTGGACTTGAAAGTTCTGATTACAGCTGGTCGTATCA  
 GAGCCACCCTCTTCCCCAGCACCACCATGTCCAGAAAGTCCAGTGTCTGCAGCAGCCTGAACAGTGTG  
 AACAGCAGTGACTCCCGTCCAGCGGCTCCCACTCGCATTCCCCAGCTCACATTACCGCTACCGCAGCT  
 CCAACCTGGCCAGCAGGCTCCTGTGAGGCTGTCCAGCGTGTCTCCCATGACTCAGGATTCATATCCCA  
 GGATGCCTTCCAGTCCAAGTACCATCCCCATGCGCCAGAGGCCCCCAACAGTTGTCTAACGGGTTT  
 TCTCACTATAGTTTCAAGTGAAGTCCCACGTGGGGCCACGGGTGCAGGCCTTTTCCCTCATTGCCTGC  
 CTGCCTCCCGCTGCTCCCTCGGTCACCTCTGTCCACCTTCCAGACTACGCTCATTATTACACCATTTG  
 GCCCGGCATGTTCCCGTCACTCAGATCCCTAGCTGGAAGGACTGGGCTAAGCCTGGGCCCTATGACCAG  
 CCTCTGGTGAACACCCTGCAGCGCCGCAAGAGAAAGCGAGAACCAGCCCAACGGGGGAGGACCCACTA  
 CCGCCAGCGGCCACCTGCAGCAGCTGAGGAGGCTCAGAGACCAGGAGCATGACTGTATCGGCTGCCAC  
 CAGGCTGGTGAAGAGATGGAGGCTTGTGAGGAGCTGGCCCTGGCCCTGTCTCGGGGCTGCAGCTGGAC  
 ACCCAGAGGAGCAGCCGGGACTCGTTCAGTGTCCAGCGGCTACAGCACCCAGACAACCACCCCTGCT  
 GCTCTGAGGACACCATCCCTTCCAAGTTTCAGATTATGATTATTTCTCTGTAAGTGGTACCAGGAGGC  
 AGATCAGCAGGAGTTCGACAAGTCTCCACCATTCCAAGAAACAGCGACATCAGCCAGTCTACCGACGG  
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 TCCCATCCCCATCAAGACACCCGTGATCCCTGTCAAGACCCCAACCGTCCCAGACCTCCCAGGGGTGTTG  
 CCAGCCCTCCAGATGGGCCAGAAGAGCGGGGGGAGCACAGCCCTGAGTCGCCATCTGTGGGTGAGGGCC  
 CCCAAGGTGTACCAGCATGCCCTCCTCAATGTGGAGCGGCAAGCTTCCGTTAACCCCTCCACTTCCAGG  
 CCCGAAGCCAGTATCCCTGAGGAGCACAGACAGGCAATTCAGAAAAGTGAAGCTGAAGACCAGGAACGG  
 GAACCCCAAGTGCCACTGTCTCCCAGGCCAGATTCCAGAGAGTGACCTGCAGACCTGAGCCCAAGGG  
 ATACTCCAAGGAGAAGACATGCTGAACGCCATCCGAAGGGCGTGAACTGAAGAAGACCACGACAAA  
 CGATCGCTCAGCCCTCGCTTTTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG218273 representing NM\_014751  
Red=Cloning site Green=Tags(s)

```
MEAVIEKECSALGGLFQTIISDMKGSYPVWEDFINKAGKLQSQLRTTVVAAAFLDAFQKVADMATNTRG
GTREIGSALTRMCMRHRSEIAKLRQFSSALIDCLINPLQEQMEEWKKVANQLDKDHAKEYKARQEIKKK
SSDTLKLQKAKKGRGDIQPQLDSALQDVNDKYLLLEETEKAQVRKALIEERGRFCTFISMLRPVIEEEI
SMLGEITHLQTI SEDLKSLTMDPHKLPSSSEQVILDLKGSYDYSWSYQTPPSSPSTTMSRKSVCSSLNSV
NSSDSRSGSHSPSSHYRYSNLAQQAPVRLSSVSSHDSGFI SQDAFQSKSPSPMPPEAPNQLSNGF
SHYLSSESHVGP TGAGLFP HCLPASRLLPRVTSVHL PDYAHYYTIGPGMFPSSQIPSWKDWAKPGPYDQ
PLVNTLQRRKEKREPDPNGGGPTTASGPPAAEEEAQRPRSMTVSAATRPGEE EACEELALALSRGLQLD
TQRSSRDSLQCSSGYSTQTTTPCCSEDTIPSQVSDYDYFSVSGDQ EADQQEFDKSSTIPRNSDISQSYRR
MFQAKRPASTAGLPTTLGPAMVTPGVATIRRTPTKPSVRRGTIGAGPIIKTPVIPVKTPVDP LPGVL
PAPPDGP EERGEHSPESPSVGE GPQVTSMPSSMWSGQASVNPPLPGPKPSIPEEHRQAIP ESEAEDQER
EPPSATVSPGQIPESDPADLSPRDTPQGEDMLNAIRRGVKLKKTTTNDRSAPRFS
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014751

**ORF Size:** 2265 bp

**OTI Disclaimer:** 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.

**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\\_014751.6](#)

**RefSeq Size:** 4932 bp

**RefSeq ORF:** 2268 bp

**Locus ID:** 9788

**UniProt ID:** [O43312](#)

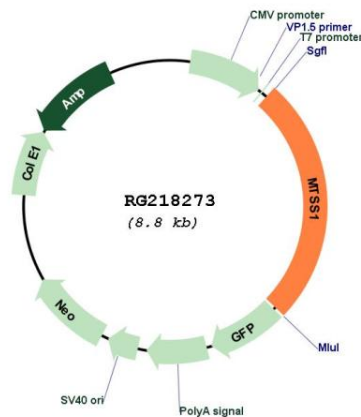
**Cytogenetics:** 8q24.13

**Domains:** WH2

**Protein Families:** Druggable Genome

**Gene Summary:** May be related to cancer progression or tumor metastasis in a variety of organ sites, most likely through an interaction with the actin cytoskeleton.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG218273