

## Product datasheet for **MG226020**

### Msi1 (NM\_008629) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Msi1 (NM_008629) Mouse Tagged ORF Clone                                     |
| Tag:                      | TurboGFP  |
| Symbol:                   | Msi1  |
| Synonyms:                 | m-Msi-1; Msi1h; Musahi1   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG226020 representing NM_008629<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGACTGACGCGCCCGACGCCCGCCTCGCCTCCCCGGACTCGCCGCACGACCCCTGCAAGATGTTCA  
TCGGAGGACTCAGTTGGCAGACCACGCAGGAAGGGCTGCGCGAATACTTCGGCCAGTTCGGGGAGGTGAA  
AGAGTGTCTGGTGTGCGGGACCCCTGACAAAAGATCCAGGGTTTCGGCTTCGTCACATTTTCATGGAC  
CAGGCGGGGGTGGATAAAGTGTGGCGCAATCGCGGCACGAGCTCGACTCAAAACAATTGACCCCAAGG  
TGGCCTTTCCTCGAAGAGCACAGCCTAAGATGGTCACTCGGACGAAGAAGATCTTCGTGGGGGGCTGTC  
TGTGAACACCACGGTGAAGATGTGAAACACTATTTTCGAGCAGTTCGGAAGGTGGATGATGCCATGCTG  
ATGTTTCGACAAAACCAACAGGCACAGAGGGTTGGATTTGTCACGTTTGAGAGCGAGGACATCGTAG  
AGAAAAGTTTGAGATCCACTTCCATGAAATCAACAACAAAATGGTGGAAATGCAAGAAAGCCAGCCAAA  
GGAGGTGATGTCCCGACAGGCTCAGCCCGGGCAGGTCTCGGGTTCATGCCCTACGGAATGGATGCCCTC  
ATGCTGGGTATTGGGATGCTGGGTTACCCAGGGTTCCAAGCCACGACCTACGCCAGCCGGAGTTACACAG  
GCCTTGCCCTGGTTACACCTACCAGTTCGCCGAATTCGTGTAGAGCGGAGCCCTCTCCCGAGCGCCCC  
AGTCTCCCGAGCTCACAGCTATCCCTCACGGCTTATGGGCCATGGCGGCGCAGCGGGCGGGCA  
GCTGTAGTTCGAGGGACAGGCTCACCCCTGGACGATGGCTCCCCCTCCAGGTTCCACTCCCGAGCCGCA  
CAGGGGGCTTCTAGGGACCACAAGCCCCGGCCCCATGGCTGAGCTCTACGGGGCAGCCAACAGGACTC  
CGGGGTACGAGTTACATCAGCGCCGCCAGCCCCGCCCCAGCACTGGTTTCGGCCACAGTCTTGGGGT  
CCCTTGATTGCCACAGCCTTACCAATGGGTACCAC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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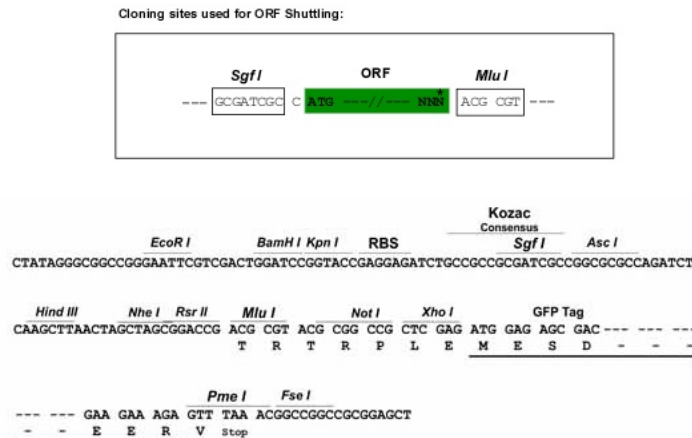
**Protein Sequence:** >MG226020 representing NM\_008629  
 Red=Cloning site Green=Tags(s)

```
METDAPQPGLASPDSPHDPCMKFIGGLSWQTTQEGLREYFGQFGEVKECLVMRDPLTKRSRGFGFVTFMD
QAGVDKVLQSRHELDSKTIDPKVAFPRRAQPKMVRTKKIFVGGLSVNTTVEDVKHYFEQFGKVDAML
MFDKTTNRHRGFGFVTFESEDIVEKVCEIHFHEINNKMVECKKAQPKVMSPTGSARGRSRVMPYGMDF
MLGIGMLGYPGFQATTYASRSYTLAPGYTYQFPEFRVERSPLPSAPVLPeltaIPLTAYGPMAAAAAAA
AVVRGTGSHPWMTAPPPGSTPSRTGGFLGTTSPGPMaelYGAANQDSGVSSYISAASPAPSTGFGHSLGG
PLIATAFTNGYH
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_008629

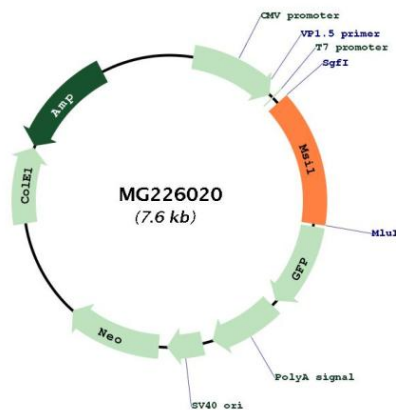
**ORF Size:** 1086 bp

**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>                | <a href="#">NM_008629.2</a>   |
| <b>RefSeq Size:</b>           | 1551 bp   |
| <b>RefSeq ORF:</b>            | 1089 bp   |
| <b>Locus ID:</b>              | 17690   |
| <b>UniProt ID:</b>            | <a href="#">Q61474</a>  |
| <b>Cytogenetics:</b>          | 5 F   |
| <b>Gene Summary:</b>          | RNA binding protein that regulates the expression of target mRNAs at the translation level. Regulates expression of the NOTCH1 antagonist NUMB. Binds RNA containing the sequence 5'-GUUAGUUAGUUAGUU-3' and other sequences containing the pattern 5'-[GA]U(1-3)AGU-3'. May play a role in the proliferation and maintenance of stem cells in the central nervous system.[UniProtKB/Swiss-Prot Function]  |

**Product images:**


Circular map for MG226020