

## Product datasheet for **MG222079**

### Msc (NM\_010827) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Msc (NM\_010827) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Msc  
**Synonyms:** bHLHa22; MyoR  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG222079 representing NM\_010827  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCCACCGGCTCGGTGAGTGACCCGAAGACTCGGAGATGAGGGGGCTGCAGAGGGTCTACCCGGCCC  
 CGGCCTCAAGAGGCCGCCCTGCTCCGCATGGAGCGGGTTACGGCTCGCCAGCGACATTTCTTCTGC  
 GGAAGAGGAGGACGGTGAAGAGGAGCCCGGCTCCCTGGGAGCCGGGAGGATGCAAGAGGAAGCGGCTC  
 CGTGGGGCTGACGCTGGCGGCGCAGGTGGCCGCGCAGGCGGTGCGGGGAAGAAGCCGCTCCCGCCTAAGG  
 GCTCGGCCGAGAGTGAAGCAGTGCAGCGGAATGCGGCCAACGCCCGGAACGCGCCCGGATGCGCGT  
 GCTGAGCAAAGCCTTCTCCAGACTGAAGACCAGCCTGCCCTGGGTGCCGCCGACACCAAGCTTTCCAAA  
 CTGGACACGCTGCGCCTGGCTTCCAGCTACATCGCGCACCTGCGCCAGCTGCTGCAGGAGACCGCTACG  
 AGGACAGCTATGTGCACCTGTGAACCTGACGTGGCCATTGCTGGTCTCTGGACGCCAGACTCTGACAG  
 CAAAGACGTTTCTGCAGCCAACAGGCTTTGTGGAACCTCCGCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG222079 representing NM\_010827  
 Red=Cloning site Green=Tags(s)

MSTGSVSDPEDSEMRLQRVYPAPASKRPPLLRMERGYGSPSDISSAEEEDGEEEPGSLGAAGGCKRKRL  
 RGADAGGAGGRAGGAGKKPLPPKGSAAECKQSQRNAANARERARMRVLKAFSRLKTSLPWVPPDTKLSK  
 LDTLRLASSYIAHLRQLLQEDRYEDSYVHPVNLWPFVVSGRPDSKDVSAANRLCGTSA

**TRTRPLE** - GFP Tag - V

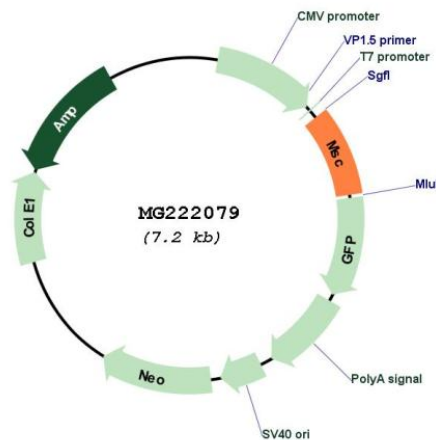
**Restriction Sites:** Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM\_010827

ORF Size: 603 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\\_010827.2](#), [NP\\_034957.1](#)

**RefSeq Size:** 1717 bp

**RefSeq ORF:** 606 bp

**Locus ID:** 17681

**UniProt ID:** [O88940](#)

**Cytogenetics:** 1 4.5 cM

**Gene Summary:** Transcription repressor that blocks myogenesis and activation of E-box dependent muscle genes.[UniProtKB/Swiss-Prot Function]