

Product datasheet for **MG211383**

Jmy (NM_021310) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Jmy (NM_021310) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Jmy |
| Synonyms: | AA591059 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MG211383 representing NM_021310
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGTTGCGCGCTGGAGGAGACTCGAGTCCGACTGGGTGGCGGTGCGGCCACGTATTCGACGAGC
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 AGCTCTAAGAAGAATCAAAGAAGCGTCCCAGAGTCAGAGGATGAGGAAGAGGCTTTGCCGTGCACAGAC
 TGGGAGAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211383 representing NM_021310
 Red=Cloning site Green=Tags(s)

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MSFALEETLESDWVAVRPHVFDEREKHKFVIVAWNEIEGKFAITCHNRTAQRQRSGSREQAGTPASDGS
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GNER SIPKSASAPAAHLFDSSQLVSARKKLRTVEGLQRRRVSSPMDEVLASLKRGSFHLKKVEQRTLPP
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WEN
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TRTRPLE - GFP Tag - V

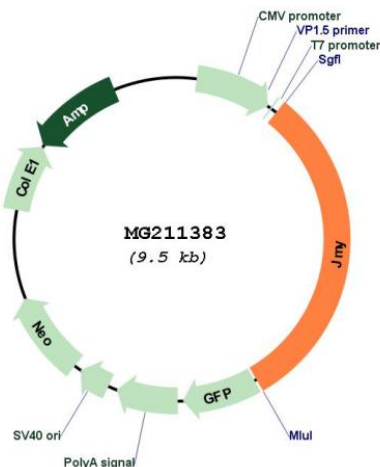
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021310

ORF Size: 2949 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_021310.3](#), [NP_067285.2](#)

RefSeq Size: 8780 bp

RefSeq ORF: 2952 bp

Locus ID: 57748

UniProt ID: [Q9QXM1](#)

Cytogenetics: 13 C3

Gene Summary:

Acts both as a nuclear p53/TP53-cofactor and a cytoplasmic regulator of actin dynamics depending on conditions. In nucleus, acts as a cofactor that increases p53/TP53 response via its interaction with p300/EP300. Increases p53/TP53-dependent transcription and apoptosis, suggesting an important role in p53/TP53 stress response such as DNA damage. In cytoplasm, acts as a nucleation-promoting factor for both branched and unbranched actin filaments. Activates the Arp2/3 complex to induce branched actin filament networks. Also catalyzes actin polymerization in the absence of Arp2/3, creating unbranched filaments. Contributes to cell motility by controlling actin dynamics. May promote the rapid formation of a branched actin network by first nucleating new mother filaments and then activating Arp2/3 to branch off these filaments. The p53/TP53-cofactor and actin activator activities are regulated via its subcellular location.[UniProtKB/Swiss-Prot Function]