OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC222946

Jmy (NM_021310) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Jmy (NM_021310) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Jmy
Synonyms:	AA591059
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC222946 representing NM_021310
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGTTCGCGCTGGAGGAGACACTCGAGTCCGACTGGGTGGCGGTGCGGCCCCACGTATTCGACGAGC
GCGAGAAGCACAAGTTTGTGTTCATTGTGGCCTGGAACGAGATCGAAGGCAAGTTTGCTATAACCTGTCA
CAACCGGACGGCCCAGAGACAGAGGAGCGGTTCCCGGGAACAGGCGGGGACGCCCGCGTCTGATGGGAGT
CGCGGTCCGGGCAGCCCCGCGGCCAGGGGTCGGTCAGAGGCCGCTGCCTCTGCTACAGCAGCGCTCCGGA
GTCCCGGGCCACGGAAAAGCCAGGCCTGGGCCGAGGGCGGCTCTCCGCGCAGCGCGCGCAGCCTGAAGGG
GGATCCTCCTCGGGGTCCCGCGGGCAGAGGACCGGAGAGTCCTCTCCGTAGCCCCGCGCGGGCTAAGGCC
AGCCCGCTCCGCAGAAGCGCCGAATCCCGAGATGCGACCGCCAGTGCCACGCCAGCCCCGCCGGCGCCCC
CGGTGCCCCCGGTGTCGTCGGTGCGGGTGGTGAGTGCCTCCGGGGCGGTCTCCGAGGAGATCGAGGTCCT
GGAAATGGTGAGGGAGGACGAGGCGCCACAGCCGCTCCCGGACTCGGAGCAGCCGCCGTCTGCCGCGGAG
CTGGAGTCTCCGGCCGAAGAATGCAGCTGGGCCGGGCTTTTCTCCTTCCAGGATCTGCGAGCCGTGCATC
AGCAGCTGTGCTCGGTAAACTCCCAGCTGGAGCCGTGTCTGCCGGTGTTCCCCGAAGAGCCGTCAGGCAT
GTGGACGGTGCTGTTTGGGGGCGCCCCCGAGATGACCGAGCAGGAGATCGACGCTCTATGTTACCAACTC
CAGGTATACCTGGGCCACGGCCTGGACACGTGTGGCTGGAAGATCCTTTCTCAGGTTCTTTTCACCGAGA
CGGATGATCCGGAGGAGTATTACGAAAGCCTCAGCGAGCTGCGGCAGAAGGGCTATGAAGAGGTGCTTCA
GCGGGCCAGGAGGCGCATCCAGGAGCTCTTGGACAAGCACAAGACTATAGAAAGCATGGTAGAGCTTTTG
GACTTGTATCAGATGGAGGATGAAGCCTACAGCAGCCTTGCAGAGGCCACAACTGAACTCTACCAGTATT
TACTTCAGCCATTCCGAGACATGCGAGAACTGGCCATGCTACGAAGACAGCAGATCAAGATTTCCATGGA
GAATGATTATTTGGGCCCTCGAAGAATTGAGAGTCTACAGAAAGAAGATGCTGACTGGCAGCGGAAAGCT
CACATGGCTGTTTTGTCTATTCAGGATCTCACCGTCAAATATTTTGAAATAACAGCAAAAGCTCAGAAAG
CTGTGTATGATCGGATGCGAGCAGATCAGAAGAAATTTGGCAAAGCATCGTGGGCAGCAGCTGCTGAGCG
AATGGAAAAACTCCAGTATGCAGTTTCTAAAGAGACTTTGCAGATGATGAGAGCTAAAGAAATTTGTCTG

View online »

GAACAGAAGAAACATGCACTAAAAGAAGAGATGCAAAGCTTACAGGGTGGTACAGAAGCTATAGCTCGAT
TGGATCAGCTGGAATCTGACTACTATGATCTGCAACTTCAGTTGTATGAAGTACAGTTTGAAATCTTGAA
GTGTGAAGAGTTGTTATTAACTGCACAGCTGGAGAGCATCAAGAGACTTATATCAGAAAAGAGAGATGAA
GTGGTGTACTACGACACTTACGAAAGCATGGAGGCCATGCTGGAGAAGGAAGAGATGGCAGCGTCTGTGC
ACGCCCAGAGGGAAGAGCTACAGAAACTGCAGCAGAAGGCACGCCAGCTGGAAGCAAGAAGGGGCCGTGT
CTCAGCCAAGAAAGCCTACCTCAGAAATAAAAAAGAAATTTGCATTGCAAAACACCATGAGAAGTTCCAG
CAGCGTTTTCAGAGTGAAGATGAATATAGAGCCCATCATACAATACAAATAAAGAGAGACAAATTGCATG
ATGAAGAGGAAAGAAAAAGTGCCTGGGTTAGCCAAGAGAGACAGAGGACACTGGATAGACTTCGAACATT
TAAGCAGAGGTACCCCGGGCAAGTCATCCTTAAGTCGACCAGATTACGAGTGGCGCATTCAAGAAGAAAA
AGCACAGCAAGCCCTGTGCCCTGTGAGGAGCAGTGTCACTCTCTGCCAACAGTGCTGCAGGGGCAGGAGA
AGACAGAGGTGGGAGGAGGAGGAAGCCAGCTTGGGCCTTCACAGACAGCAGAACCCCAGAGCCTTGTCCA
ACTTGAAGACACTTCATCAGAACAACTTGAATCCACCTCATTACCTCCTCGTGCTGTCGTCAGCTCTGAA
CTGCCTCCTCCACAGTCAGCTCCACTGTTGACTAGTATTGACCCCAAACCGTGTTCTGTTACTATAGATC
CTCTCCCACCCCCTCTTCCTCCAACACCTCCCCCTCCCCCACCCCCACCCCCACCTCCACCCCCACCCCT
GCCTGTTGCAAAGGACAATGGGGCCTCCACCACTGCAGAGACACTGGAGAAAGATGCACTTAGGACGGAG
GGCAATGAGAGGAGCATCCCAAAGTCGGCCAGTGCCCCCGCAGCACACCTCTTTGATAGCAGCCAGCTGG
TCAGCGCACGGAAAAAGCTCAGAAAGACTGTGGAAGGGCTGCAGAGGAGGAGAGTGAGTTCACCCATGGA
TGAAGTGTTAGCATCCTTGAAGCGTGGTAGCTTTCATCTGAAAAAGGTTGAACAGCGGACTCTGCCTCCT
TTTCCTGATGAAGATGATAGTAATAATATTTTGGCGCAGATAAGGAAAGGGGTAAAGTTGAAGAAGGTTC
AGAAGGAAGTTTTGAGAGAATCCTTCACACTTCTGCCTGATACCGACCCTTTGACACGGAGTATCCACGA
AGCTCTAAGAAGAATCAAAGAAGCGTCCCCAGAGTCAGAGGATGAGGAAGAGGCTTTGCCGTGCACAGAC
TGGGAGAACTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_021310

Insert Size: 2952 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_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]