

## Product datasheet for **MG219311**

### Morf4I2 (NM\_001168225) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Morf4I2 (NM\_001168225) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Morf4I2  
**Synonyms:** 2410017O14Rik; mKIAA0026; Mrgx; Sid393p  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG219311 representing NM\_001168225  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTCCAGAAAGCAGGCTTCTCAAACCTCGTGGACAACAATCTGCTGAAGAAGACAACCTTAAGAAAC  
CAACTCGAAGCAATATGCAGAGAAGTAAGATGAGAGGATCTGCCTCGGAAAGAAGTCAGCTGGTTCGCA  
GCCAAAGAATCTCGATCCAGCCCTGCCCGAAGATGGGGAGGTCGCTCTGCTGAGAACCCCTTCCGGT  
TCTGTGCGGAAGACCAGGAAGAACAAGCAGAAGGCTCCTGGCAACGGAGACGGAGGCAGTACCAGTGAAG  
TCCCCAGCCCCCTCGGAAGAAAAGGGCACGGGCTGACCCCACTGTGGAGAGCGAGGAGGCATTCAAGAG  
TAGGATGGAGGTGAAGGTGAAGATCCCTGAAGAATTTAAACCGTGGCTGGTGGAGGACTGGGACTTGGTT  
ACGAGGCAGAAGCAGTTGTTCCAGCTCCCTGCTAAAAAGAATGTCGATGCCATTCTTGAGGAGTATGCCA  
ATTGTAAGAAGTCGCAGGGAAATGTTGATAATAAGGAGTACGCAGTTAATGAAGTTGAGGAGGGATAAA  
AGAGTATTTCAATGTGATGCTGGCACTCAGCTGCTGTACAAGTTTAAAAGGCCTCAGTATGCTGAGATT  
CTGCTGGCTCACCTGATGCGCCGATGTCGCAGATCTATGGGGCGCCACACCTCCTGAGATTATTCGTGA  
GAATTGGGCAATGTTGGCCTATACGCCCTTGATGAGAAAAGCCTGGCATTATTGCTGGGCTATCTGCA  
TGATTTCCCTTAAGTATCTGGCAAAGAATTCTGCCTCTCTGTTTACTGCCAGTGATTACAAAGTGGCTTCT  
GCTGACTATCATCGCAAAGCCCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG219311 representing NM\_001168225  
 Red=Cloning site Green=Tags(s)

MSSRKQASQTRGQQAEEEDNFKKPTRSNMQRSKMRGSASGKKSAGSQPKNLDPALPGRWGGRSAENPPSG  
 SVRKTRKNKQKAPGNGDGGSTSEVPQPPRKKRARADPTVESEEAFKSRMEVKVKIPEELKPWLVEDWDLV  
 TRQKQLFQLPAKKNVDAILEEYANCKKKSQGNVDNKEYAVNEVVGGIKEYFNVMLGTQLLYKFERPQYAEI  
 LLAHPDAPMSQIYGAPHLRLRFVRIGAMLAYTPLDEKSLALLLGYLHDFLKYLAKNASLFTASDYKVAS  
 ADYHRKAL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

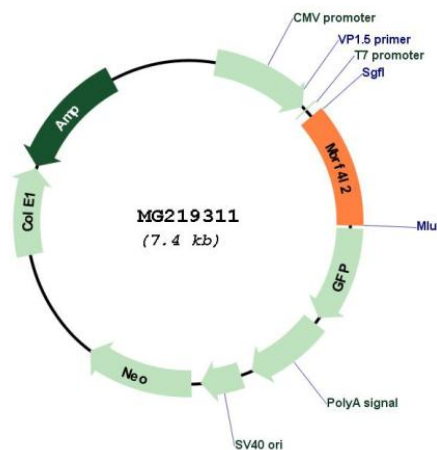
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001168225

**ORF Size:** 864 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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_001168225.1</a> , <a href="#">NP_001161697.1</a>
<b>RefSeq Size:</b>	1947 bp
<b>RefSeq ORF:</b>	867 bp
<b>Locus ID:</b>	56397
<b>UniProt ID:</b>	<a href="#">Q9R0Q4</a>
<b>Cytogenetics:</b>	X F1
<b>Gene Summary:</b>	Component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histone H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. The NuA4 complex ATPase and helicase activities seem to be, at least in part, contributed by the association of RUVBL1 and RUVBL2 with EP400. NuA4 may also play a direct role in DNA repair when directly recruited to sites of DNA damage. Also component of the MSIN3A complex which acts to repress transcription by deacetylation of nucleosomal histones (By similarity).[UniProtKB/Swiss-Prot Function]