

## Product datasheet for **MR221841**

### Hmga2 (NM\_010441) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hmga2 (NM\_010441) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Hmga2  
**Synonyms:** 9430083A20Rik; HMGI-C; Hmgic; pg; pygmy  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR221841 representing NM\_010441  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCGCACGGGTGAGGGCGCCGGCAGCCGTCCACATCAGCCAGGGACAACCTGCCGCCCCGGTGC  
CACAGAAGCGAGGACGCGCCGACCCAGGAAGCAGCAGCAAGAGCCAACCTGTGAGCCCTCTCTAAGAG  
ACCCAGAGGAAGACCCAAAGGCAGCAAAAACAAGAGCCCTCTAAAGCAGCCAGAAGAAAGCAGAGACC  
ATTGGAGAAAAACGGCCAAGAGGCAGACCTAGGAAATGGCCACAACAAGTCGTTCAAGAAGCCTGCTC  
AGGAGACTGAAGAGACATCCTCGCAAGAGTCCGCAGAGGAGGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR221841 representing NM\_010441  
Red=Cloning site Green=Tags(s)  
MSARGEGAGQPSTSAQGQPAAPVPQKRGRGRPRKQQQEPTCEPSPKRPRGRPKGSKNKSPSKAAQKKAET  
IGEKPRGRPRKWPQQVVQKKAQETEETSSQESAED

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9033\\_d11.zip](https://cdn.origene.com/chromatograms/mm9033_d11.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_010441

**ORF Size:** 324 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\\_010441.3](#)

**RefSeq Size:** 4226 bp

**RefSeq ORF:** 327 bp

**Locus ID:** 15364

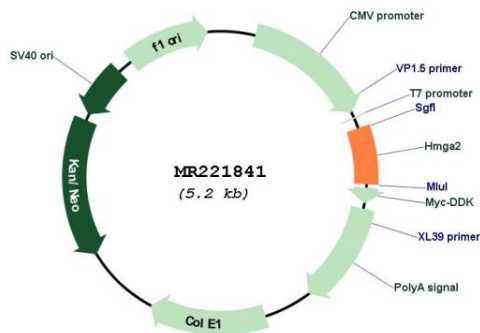
UniProt ID: [P52927](#)

Cytogenetics: 10 67.94 cM

MW: 12.3 kDa

Gene Summary: Functions as a transcriptional regulator. Functions in cell cycle regulation through CCNA2. Plays an important role in chromosome condensation during the meiotic G2/M transition of spermatocytes. Plays a role in postnatal myogenesis, is involved in satellite cell activation (PubMed:27446912).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR221841