

Product datasheet for **MG221841**

Hmga2 (NM_010441) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hmga2 (NM_010441) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Hmga2
Synonyms: 9430083A20Rik; HMGI-C; Hmgic; pg; pygmy
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG221841 representing NM_010441
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCGCACGCGGTGAGGGCGCCGGCAGCCGTCCACATCAGCCAGGGACAACCTGCCGCCCCGGTGC
 CACAGAAGCGAGGACGCGGCCGACCCAGGAAGCAGCAGCAAGAGCCAACCTGTGAGCCCTCTCTAAGAG
 ACCCAGAGGAAGACCCAAAGGCAGCAAAAACAAGAGCCCTCTAAAGCAGCCAGAAGAAAGCAGAGACC
 ATTGGAGAAAAACGCCAAGAGGCAGACCTAGGAAATGGCCACAACAAGTCGTTCAAGAAGCCTGCTC
 AGGAGACTGAAGAGACATCCTCGCAAGAGTCCGCAGAGGAGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221841 representing NM_010441
 Red=Cloning site Green=Tags(s)
 MSARGEGAGQPSTSAQGQPAAPVPQKRGRGRPRKQQQEPTCEPSPKRPRGRPKGSKNKSPSKAAQKKAET
 IGEKRPRGRPRKWPQVVQKKPAQETEETSSQESAEED

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

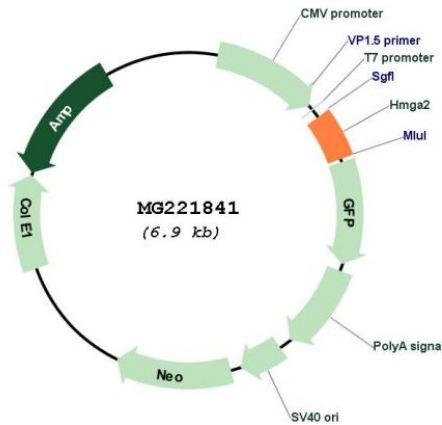


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Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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
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]