

## Product datasheet for **RC236056**

### HMGA2 (NM\_001300919) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HMGA2 (NM\_001300919) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** HMGA2  
**Synonyms:** BABL; HMGI-C; HMGIC; LIPO; SRS5; STQTL9  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236056 representing NM\_001300919  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGCGCACGGGTGAGGGCGGGGCGAGCCGTCCTCACTCAGCCAGGGACAACCTGCCCCCCAGCGC  
CTCAGAAGAGAGGACGCGGCCGCCAGGAAGCAGCAGCAAGAACCAACCGGTGAGCCCTCTCCTAAGAG  
ACCCAGGGGAAGACCCAAAGGCAGCAAAAACAAGAGTCCCTCTAAAGCAGCTCAAAGAAAGCAGAAGCC  
ACTGGAGAAAAACGGCCAAGAGGCAGACCTAGGAAATGGGCTGGAGTGCAGTGGTACAATCTCGGCTCAT  
TGCAACCTCCACCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGGCTCCTGAGTAGTTGGGATTACAGGCA  
CCCACCACACCCAGCTAATTTTTGTATTTTAGTAGAGACAGGGTTTACCATGTTGGCCAGGCTGG  
TCTCGAACTCCTGACCTCAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236056 representing NM\_001300919  
Red=Cloning site Green=Tags(s)  
MSARGEGAGQPSTSAQQQPAAPAPQKRGRGRPRKQQQEPTGEPSPKRPRGRPKGSKNKSPSKAAQKKA  
TGEKRPRGRPRKWAGVQWYNLGSLOPPPPRFKQFSCLRLLSSWDYRHPHPANFCIFSRDRVSPCWPGW  
SRTPDLR

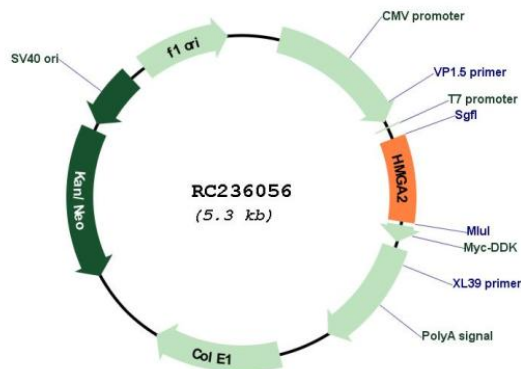
**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001300919

**ORF Size:** 441 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.

<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>	<u>NM_001300919.1, NP_001287848.1</u>
<b>RefSeq Size:</b>	1878 bp
<b>RefSeq ORF:</b>	444 bp
<b>Locus ID:</b>	8091
<b>Cytogenetics:</b>	12q14.3
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	16.9 kDa
<b>Gene Summary:</b>	<p>This gene encodes a protein that belongs to the non-histone chromosomal high mobility group (HMG) protein family. HMG proteins function as architectural factors and are essential components of the enhancosome. This protein contains structural DNA-binding domains and may act as a transcriptional regulating factor. Identification of the deletion, amplification, and rearrangement of this gene that are associated with myxoid liposarcoma suggests a role in adipogenesis and mesenchymal differentiation. A gene knock out study of the mouse counterpart demonstrated that this gene is involved in diet-induced obesity. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]</p>