

## Product datasheet for **RC204972**

### HMGA1 (NM\_145903) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HMGA1 (NM\_145903) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** HMGA1  
**Synonyms:** HMG-R; HMGA1A; HMG1Y  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC204972 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGAGTCGAGCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGACGGCACTGAGAAGC  
GGGGCCGGGGCAGGCCGCGCAAGCAGCCTCCGAAGGAGCCAGCGAAGTGCCAACACCTAAGAGACCTCG  
GGGCCGACCAAAGGGAAGCAAAAACAAGGTGCTGCCAAGACCCGAAAACCACCACAACCTCCAGGAAGG  
AAACCAAGGGGCAGACCCAAAAAAGTGGAGAAGGAGGAAGAGGGGCATCTCGCAGGAGTCTCGGAGG  
AGGAGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC204972 protein sequence  
Red=Cloning site Green=Tags(s)  
MSESSSKSSQPLASKQEKDGTGTEKRGRGRPRKQPPKEPSEVPTPKRPRGRPKGSKNKGAATRKTTPGR  
KPRGRPKKLEKEEEEIGISQESSEEEQ

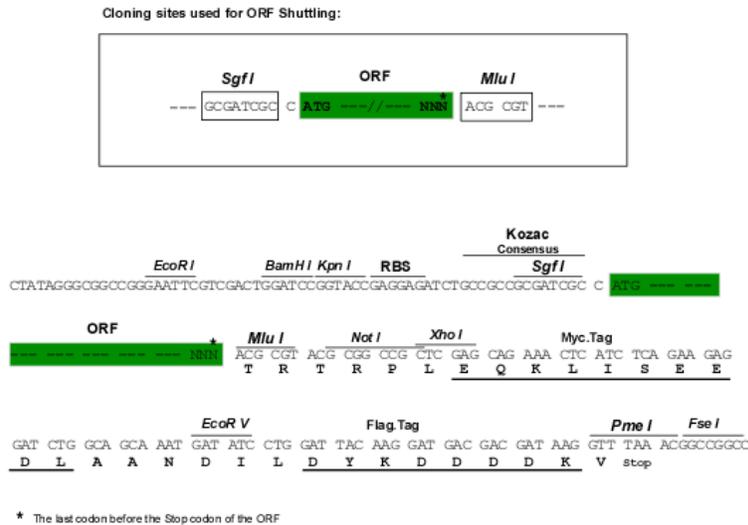
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6544\\_a09.zip](https://cdn.origene.com/chromatograms/mk6544_a09.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_145903

**ORF Size:** 288 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

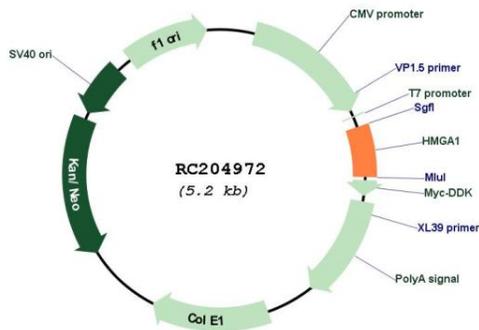
**RefSeq:** [NM\\_145903.3](#)

**RefSeq Size:** 1884 bp

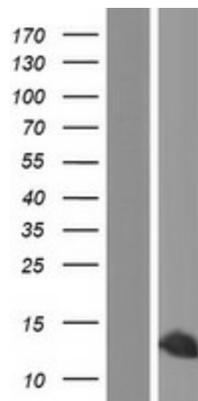
**RefSeq ORF:** 291 bp

**Locus ID:** 3159  
**UniProt ID:** [P17096](#)  
**Cytogenetics:** 6p21.31  
**Protein Families:** Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors  
**MW:** 10.7 kDa  
**Gene Summary:** This gene encodes a chromatin-associated protein involved in the regulation of gene transcription, integration of retroviruses into chromosomes, and the metastatic progression of cancer cells. The encoded protein preferentially binds to the minor groove of AT-rich regions in double-stranded DNA. Multiple transcript variants encoding different isoforms have been found for this gene. Pseudogenes of this gene have been identified on multiple chromosomes. [provided by RefSeq, Jan 2016]

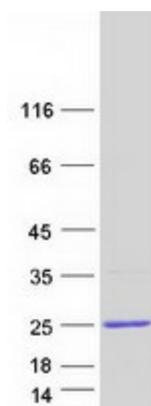
### Product images:



Circular map for RC204972



Western blot validation of overexpression lysate (Cat# [LY407839]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204972 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HMGA1 protein (Cat# [TP304972]). The protein was produced from HEK293T cells transfected with HMGA1 cDNA clone (Cat# RC204972) using MegaTran 2.0 (Cat# [TT210002]).