

## Product datasheet for **RG204972**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HMGA1 (NM\_145903) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** HMGA1  
**Synonyms:** HMG-R; HMGA1A; HMG1Y  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG204972 representing NM\_145903  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGAGTCGAGCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGACGGCACTGAGAAGC  
GGGGCCGGGGCAGGCCGCGCAAGCAGCCTCCGAAGGAGCCAGCGAAGTGCCAACACCTAAGAGACCTCG  
GGGCCGACCAAAGGGAAGCAAAAACAAGGTGCTGCCAAGACCCGAAAACCACCACAACCTCCAGGAAGG  
AAACCAAGGGGCAGACCCAAAAAAGTGGAGAAGGAGGAAGAGGGGCATCTCGCAGGAGTCTCGGAGG  
AGGAGCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG204972 representing NM\_145903  
Red=Cloning site Green=Tags(s)  
MSESSSKSSQPLASKQEKDGTEKRGRGRPRKQPPKEPSEVPTPKRPRGRPKGSKNKGAAKTRKTTTTTPGR  
KPRGRPKKLEKEEEEISQESSEEEQ

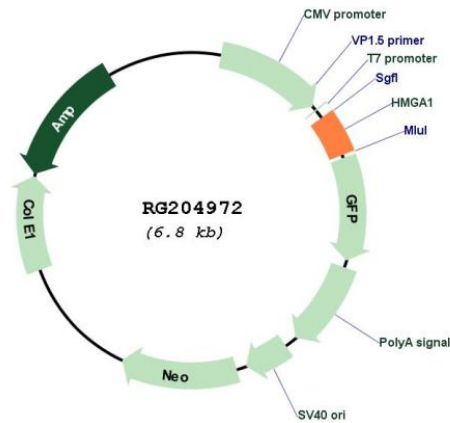
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**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](#)

<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_145903.3</a>
<b>RefSeq Size:</b>	1773 bp
<b>RefSeq ORF:</b>	291 bp
<b>Locus ID:</b>	3159
<b>UniProt ID:</b>	<a href="#">P17096</a>
<b>Cytogenetics:</b>	6p21.31
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors
<b>Gene Summary:</b>	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]