

## Product datasheet for **SC109301**

### HMGA1 (NM\_145902) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HMGA1 (NM_145902) Human Untagged Clone
Tag:	Tag Free
Symbol:	HMGA1
Synonyms:	HMG-R; HMGA1A; HMG1Y
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145902, the custom clone sequence may differ by one or more nucleotides

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ATGAGTGAGTCGAGCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGACGGCACTGAGAAGC
GGGGCCGGGGCAGGCCGCGCAAGCAGCCTCCGAAGGAGCCAGCGAAGTGCCAACACCTAAGAGACCTCG
GGGCCGACCAAAGGGAAGCAAAAACAAGGGTGCTGCCAAGACCCGAAAACACCACAACCTCCAGGAAGG
AAACCAAGGGGCAGACCCAAAAAACTGGAGAAGGAGGAAGAGGAGGGCATCTCGCAGGAGTCTCGGAGG
AGGAGCAGTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_145902 unedited GATCGCGCCCGTTGCCGCTTTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAG AGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAA TTCCGGCAGGAGCCGAGCCGGGGCTATTCTGGCGCTGGCGCGGTCCAAGAAGGCATCC GCATTTGCTACCAGCGCGCGCCGCGGCGGATTTCTGCCGCTCCTCAGCGCCAGCACCGC CGCTCCCGGCAACCCGGAGCGCGCACCCGAGCCGGCGGCGAGCTCGCGCATCCCAGCC ATCACTCTTCCACCTGCTCCTTAGAGAAGGGAAGATGAGTGAGTCGAGCTCGAAGTCCAG CCAGCCCTTGGCCTCCAAGCAGGAAAAGGACGGCACTGAGAAGCGGGGCCGGGCGAGGCC GGCAAGCAGCCTCCGAAGGAGCCAGCGAAGTGCCAACACCTAAGAGACCTCGGGGCCG ACCAAAGGGAAGCAAAAACAAGGGTGCTGCCAAGACCCGGANAACCACCACAACCTCCAGG AAGGAAACCAAGGGGAGACCCAAAACTGGAGAAGAGGAAGAGGAGGGCATCTCGCAGG AGTCTTCGGAGAGGAGCAGTGACCCATGCGTGCCGCTGCTCCTCACTGGNAGAGCAGC TTNCCTTCTGGGACTGGACAGCTTTTGTTCGTTCCACCGGCCCGCCCTTTCCCAAGCC CACCATCACCACGGCCTCTGGCCGCCACCCCATCNTCACCTGTGCCCTCACCACCCCA CTACACAGAAAACAGCCGCTGGAAGGCTCCCATGGGCTGAGTGGGAAGCATTTTTCCCT GGCCTCATTTCCAATTTCCCGCCACCCCGACTACCACTGGCCTTCTGGACAGGGTTAA ATTCCATTTAACCGCCCTGGACCTGGTTGGTTCCCC
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_145902 unedited TTTTTTTTTTTTTTTTTCCAGAAAAGATTTTTTTTATTCAAGTAACTGCAAATAGGAAA CCAGAGGGGAGCCCGAGGCTGGGACAAAATAATGGCTACCCCTCCCAACAGAACAGGGGG AGGAGGTGGCCCTACACCTTTATGGTCCGATTGGGGCCCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_145902
<b>Insert Size:</b>	1800 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_145902.1</a> , <a href="#">NP_665909.1</a>
<b>RefSeq Size:</b>	1843 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>	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and uses an alternate in-frame splice site compared to variant 1. It encodes isoform b (also called HMG-Y), which is shorter than isoform a. Variants 2, 4, 5, 7, and 8 encode the same isoform (b). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>