

Product datasheet for **SC311578**

HMGA1 (NM_145905) Human Untagged Clone

Product data:

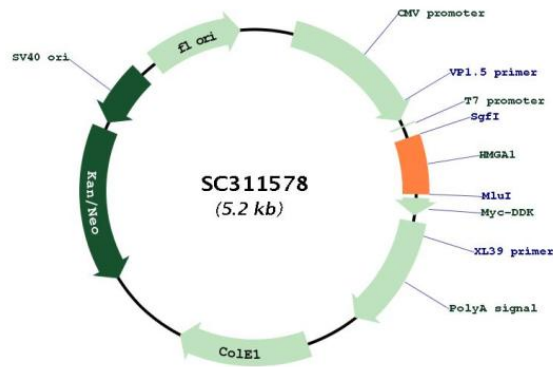
Product Type:	Expression Plasmids
Product Name:	HMGA1 (NM_145905) Human Untagged Clone
Tag:	Tag Free
Symbol:	HMGA1
Synonyms:	HMG-R; HMGA1A; HMG1Y
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311578 representing NM_145905. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GTCGTTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGTGAGTCGAGCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGACGGCACTGAGAAG
CGGGGCCGGGCAGGCCGCGCAAGCAGCCTCCGAAGGAGCCAGCGAAGTGCCAACACCTAAGAGACCT
CGGGGCCGACAAAGGGAAGCAAAAACAAGGTGCTGCCAAGACCCGAAAACCACCACAACCTCCAGGA
AGGAAACCAAGGGGCAGACCCAAAAAAGTGGAGAAGGAGGAAGAGGAGGGCATCTCGCAGGAGTCTCG
GAGGAGGAGCAGTGA
ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_145905

Insert Size: 291 bp

OTI Disclaimer: 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.

RefSeq: [NM_145905.2](#)

RefSeq Size: 1887 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]

Transcript Variant: This variant (7) 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.