

Product datasheet for **SC324540**

HMG1 (HMGB1) (NM_002128) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HMG1 (HMGB1) (NM_002128) Human Untagged Clone
Tag:	Tag Free
Symbol:	HMG1
Synonyms:	HMG-1; HMG1; HMG3; SBP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002128.4
 CAGTACATTGAGCTCCATAGAGACAGCGCCGGGCAAGTGAGAGCCGGACGGGCACTGGG
 CGACTCTGTGCCTCGCTGAGGAAAAATAACTAAACATGGGCAAAGGAGATCCTAAGAAGC
 CGAGAGGCAAAATGTCATCATATGCATTTTTGTGCAACTTGTCTGGGAGGAGCATAAGA
 AGAAGCACCCAGATGCTTCAAGAGAAAAGGAAAATTTGAAGATATGGCAAAAGCGGACAAGG
 CCCGTTATGAAAGAGAAAATGAAAACCTATATCCCTCCCAAAGGGAGACAAAAAGAAGT
 TCAAGGATCCCAATGCACCCAAGAGGCCTCCTTCGGCCTTCTTCTCTTCTGCTCTGAGT
 ATCGCCAAAAATCAAAGGAGAACATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAAAC
 TGGGAGAGATGTGGAATAACACTGCTGCAGATGACAAGCAGCCTTATGAAAAGAAGGCTG
 CGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGAAAGCCTG
 ATGCAGCAAAAAAGGGAGTTGTCAAGGCTGAAAAAGCAAGAAAAAGAAGGAAGAGGAGG
 AAGATGAGGAAGATGAAGAGGATGAGGAGGAGGAGGAAGATGAAGAAGATGAAGATGAAG
 AAGAAGATGATGATGATGAATAAGTTGGTTCTAGCGCAGTTTTTTTTTTTTCTTGTCTAT
 AAAGCATTTAACCCCTGTACACAACACTCCTTTTTAAAGAAAAAATTGAAATGTAA
 GGCTGTGTAAGATTTGTTTTAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACTA
 CCGAATGTGCTTTAGATAGCCCTGTCCTGGTGGTATTTTCAATAGCCACTAACCTTGCC
 TGGTACAGTATGGGGTTGTAATTGGCATGGAATTTAAAGCAGGTTCTTGTGGTGCA
 CAGCACAATTAGTTATATATGGGGATGGTAGTTTTTTCATCTTCAGTTGTCTCTGATGC
 AGCTTATACGAAATAATTGTTGTTCTGTTAACTGAATACCACTCTGTAATTGCAAAAAA
 AAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTT
 ATTAGTATTGTTGCTTTTTCATAGGCTGAAAATTTTCTTCTTGAGGGGAAGCTAGTCT
 TTTGCTTTTGCCATTTTGAATCACATGAATTATTACAGTGTCTATCCTTTCATATAGTT
 AGCTAATAAAAAAGCTTTTGTCTACACACCCTGCATATCATAATGGGGTAAAGTTAAGTT
 GAGATAGTTTTTATCCATAACTGAACATCCAAAATCTTGATCAGTTAAGAAATTTACAT
 AGCCCACTTACATTTACAAAAGTGAAGATAATCAATCTACTCAAAGCATGGGATTATTAG
 AATCAAACATTTTGAAGTCTGCTTGAAGGACTAATAGAAAAGTATGTTCTAACCTTT
 ACATGAGGACTCTATTCTTAACTCCCATTACCATGTAATGGCAGTTATATTTTGCAGTT
 CCCACATTAAGAAGACCTGAGAATGTATCCCCAAAAGCGTGAGCTTAAAATACAAGACT
 GCCATATTAATTTTTTGTGACATTAGTCTCAGTGAAGACTATGAAAATGCTGGCTATA
 GATGCTTTTTCCATTTATCTAAATATGGACTGCTCAGGAAACGAGACTTTCATTACAAG
 TATTTTTAATTAATTGGGCCAGCTTTTCAAACAAGATGCCACATTCAAAATAGGGTATA
 TTTTCCTATATTACGGTTTTGCCCTTTATAAATCCAAGTAGATAGGAAGAAAGAAGACAA
 ACTTTGCATCTCAGTATGAATTATTCAATTTATTTGAATGATTTTTCTTTACAAAACAAA
 CTCATTCAATAGTCATGTTTATCTGCTTAGGAGTTTAGGGAACAATTTGGCAATTTTGTG
 GTTTTCGAGATTATCGTTTTCTTAAAGTCCAGTATTTTAAAATAGCGTTCTTGTAAATTT
 TACACGCTTTTGTGATGGAGTGTGTTTTGTTATATAATTTAGACTTGGATTCTTTCCAT
 TTGCATTTGTTTATGTAATTTTCAAGGAGAACTGAACATCTGAGTCTGGATGATACTA
 ATAAACTAATAATTGCAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002128

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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_002128.4](#), [NP_002119.1](#)

RefSeq Size: 3428 bp

RefSeq ORF: 648 bp

Locus ID: 3146

UniProt ID: [P09429](#)

Cytogenetics: 13q12.3

Domains: HMG

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Protein Pathways: Base excision repair

Gene Summary:

This gene encodes a protein that belongs to the High Mobility Group-box superfamily. The encoded non-histone, nuclear DNA-binding protein regulates transcription, and is involved in organization of DNA. This protein plays a role in several cellular processes, including inflammation, cell differentiation and tumor cell migration. Multiple pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Sep 2015]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.