

## Product datasheet for **SC118802**

### 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: | None  |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_002128, the custom clone sequence may differ by one or more nucleotides |

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ATGGGCAAAGGAGATCCTAAGAAGCCGAGAGGCAAAATGTCATCATATGCATTTTTTGTGCAAACCTTGTC
GGGAGGAGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACTTCTCAGAGTTTTCTAAGAAGTGCTCAGA
GAGGTGGAAGACCATGTCTGCTAAAGAGAAAGGAAAATTTGAAGATATGGCAAAGCGGACAAGGCCCGT
TATGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGGAGACAAAAAGAAAGTTCAAGGATCCCAATG
CACCCAAGAGGCCTCCTTCGGCCTTCTCCTCTTCTGCTCTGAGTATCGCCCAAAATCAAAGGAGAACA
TCCTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGAATAAACTGCTGCAGATGAC
AAGCAGCCTTATGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAG
CTAAAGGAAAGCCTGATGCAGCAAAAAAGGGAGTTGTCAAGGCTGAAAAAGCAAGAAAAAGGAAGA
GGAGGAAGATGAGGAAGATGAAGAGGATGAGGAGGAGGGAAGATGAAGAAGATGAAGATGAAGAAGAA
GATGATGATGATGAATAA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002128 unedited  
 ACTCACTATAGGCGGCCGCAATTTCGCACGAGGAGAGTGAGGAGGCTGCGTCTGGCTCCC  
 GCTCTCACAGCCATTGCAGTACATTGAGCTCCATAGAGACAGCGCCGGGGCAAGTGAGAG  
 CCGGACGGGCACTGGGCGACTCTGTGCCTCGCTGAGGAAAAATACTAAACATGGGCAAA  
 GGAGATCTAAGAAGCCGAGAGGCAAAATGTCATCATATGCATTTTTTTGTCAAACCTTGT  
 CGGGAGGAGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACTTCTCAGAGTTTTCTAAG  
 AAGTGCTCAGAGAGGTGGAAGACCATGTCTGCTAAAGAGAAAAGGAAAAATTTGAAGATATG  
 GCAAAAGCGGACAAGGCCGTTATGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGG  
 GAGACAAAAAAGAAGTTCAAGGATCCCAATGCACCCAAGAGGCCTCCTTCGGCCTTCTTC  
 CTCTTCTGCTCTGAGTATCGCCAAAAATAAAGGAGAACATCCTGGCCTGTCCATTGGTG  
 ATGTTGCAAGAACTGGGAGAGATGTGGAATAACACTGCTGCAGATGACAAGCAGCCTT  
 ATGAAAAGAAGGCTGCGAAGCTGAAGGAANAATACAAAAGGATATTGCTGCATATCGAGC  
 TAAAGAAAGCCTGATGCAGCAANAGGGGAGTGTCAAGGGCTGAAAAAGNCAGAAAAGAA  
 GGAAGAAGANGAAGATGANGAANATGAANAGGATGANNGAGAGNANGAAGATGAANAANA  
 TGAAGATGAAGAAAAGATGATGATGATGAAATAAGNTGGTTCTAAGCGCAGTTTTTTTTT  
 TCTTGGCTATAAGCATTTTACCCCCCTGTACACAACCTNACTTCTTTTAAAGAAAAAATTG  
 AATGNANGGCTGGTAANAATTGTTTTAACTGNACAGGCCTTTTTTTGGATAGGTAACA  
 CCTACCAAGTGGGTAAAAAACCTGGCCCGGGGGATTTCAAAGCACCTACCTGCTGAC  
 GGNGGGGGGA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002128 unedited  
 NNNTTAGCTCTGNNACCGCGCCGATTCTAGGATCGAGNTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTTTTAACTAAAAAAAATGGATTTACTTAAAAGCATTCA  
 AAATGGCAACAAAACAGCTGCAACTTTTTTTTTTTTGAATTACAGAGGGGTATTCAGTT  
 AACAAAACAACAATTATTCGTATAAGCTGCATCAAAGACAACCTGAAGATGAAAAAACTA  
 CCATCCCATATAACTAATTTGGGCTGGGCCCAACAAAAACCTGCTTAAATTTCCA  
 TGCCAATTTACAACCCCATACTGTACCAGGCAAGGTTAGGGGCTATTGAAAATACCACC  
 AGGACAGGGCTATCTAAAGACACATTCCGGGAGGGGTTAACTATACAAAAAAGACACTG  
 GACAGTTAAAAACAATTTTACACAGCCTTACATTTAAATTTTTTCTTAAAAGGAGT  
 GAGTTGGGCACAGGGGGTTAAATGCTTTATAGACAAAAAATAAACTGCGCTAGAAC  
 CAACTTATTCATCATCATCATCTTCTTAACTTTCATATTCTTAATCTTCTCTCTCTCT  
 CCCATCCCTTTATCTTCTCATCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT  
 CCTTGACAACCTCCTTTTTTGTGGATAAGGCCTTTCTTTAACCAGAAAAGCCGAAATA  
 ACCCTTTTGAATTTTTCTTTAGCTTCCCAACCTCTTTTTTATAAGGCGGCTTGCAATC  
 GGCAGAGGGTTTTCCCAATCTTCCCGGTTTTTCCACCACCACAAGGGCCAGCCAGG  
 AGGTCCCTTTTGTTTTGGGCCAACCCAAAACCAAGAGAAAAAGCGCCCAAGAAGCC  
 TCTGGGGGC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002128

**Insert Size:**

1320 bp

**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](mailto: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](#)

**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\\_002128.3](#), [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.