

## Product datasheet for RN200701

### Hmgb1 (NM\_012963) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hmgb1 (NM_012963) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Hmgb1
Synonyms:	Ac2-008; Hmg1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN200701 representing NM_012963 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCAAAGGAGATCCTAAGAAGCCGAGAGGCCAAAATGTCCTCATATGCATTCTTTGTGCAAACCTGCC  
GGGAGGAGCACAAGAAGAAGCACCCGGATGCTTCTGTCAACTTCTCAGAGTTCTCCAAGAAGTGCTCAGA  
GAGGTGGAAGACCATGTCTGCTAAAGAAAAGGGAAATTTGAAGATATGGCAAAGGCTGACAAGGCTCGT  
TATGAAAGAGAAATGAAAACCTACATCCCCCAAAGGGGAGACCAAAAAGAAGTTCAAGGACCCCAATG  
CCCCAAGAGGCCTCCTTCGGCCTTCTTCTGTCTGTTCTGAGTACCGCCAAAATCAAAGGCGAGCA  
TCCTGGCTTATCCATTGGTGATGTTGCGAAGAACTAGGAGAGATGTGGAACAACACTGCTGCGGATGAC  
AAGCAGCCCTATGAAAAGAAGGCCGCAAGCTGAAGGAGAAGTATGAGAAGGATATTGCTGCCTACAGAG  
CTAAAGGAAAACCTGATGCAGCGAAAAAGGGGGTGGTCAAGGCTGAGAAGAGCAAGAAAAAGGAAGA  
GGAAGACGACGAGGAGGATGAAGAGGATGAGGAAGAGGAGGAAGAGGAGGAAGACGAAGATGAAGAAGAA  
GATGATGATGATGAAT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_012963
Insert Size:	648 bp



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**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\\_012963.2](#), [NP\\_037095.1](#)

**RefSeq Size:** 2256 bp

**RefSeq ORF:** 648 bp

**Locus ID:** 25459

**UniProt ID:** [P63159](#)

**Cytogenetics:** 12p11

**Gene Summary:** heparin binding protein that facilitates neurite outgrowth [RGD, Feb 2006]