

Product datasheet for **MG202360**

Hmgb1 (BC064790) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hmgb1 (BC064790) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hmgb1
Synonyms:	HMG-1; Hmg1; p30; SBP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202360 representing BC064790 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAAAGGAGATCCTAAAAAGCCGAGAGGCCAAAATGTCCTCATATGCATTCTTTGTGCAAACCTTGCC
GGGAGGAGCACAAGAAGAAGCACCCGGATGCTTCTGTCAACTTCTCAGAGTTCTCCAAGAAGTGCTCAGA
GAGGTGGAAGACCATGTCTGCTAAAGAAAAGGGAAATTTGAAGATATGGCAAAGGCTGACAAGGCTCGT
TATGAAAGAGAAATGAAACCTACATCCCCCAAAGGGGAGACCAAAAAGAAGTTCAAGGACCCCAATG
CACCCAAGAGGCCTCCTTTGGCCTTCTTCTGTTCTGTTCTGAGTACCGCCCAAAATCAAAGGCGAGCA
TCCTGGCTTATCCATTGGTGTGTTGCAAAGAACTAGGAGAGATGTGGAACAACACTGCAGCAGATGAC
AAGCAGCCCTATGAGAAGAAAGCTGCCAAGCTGAAGGAGAAGTATGAGAAGGATATTGCTGCCTACAGAG
CTAAAGGAAAACCTGATGCAGCGAAAAAGGGGGTGGTCAAGGCTGAAAAGAGCAAGAAAAAGAAAGAA
GGAAGATGATGAGGAGGATGAAGAGGATGAGGAAGAGGAGGAAGAAGAGGAAGACGAAGATGAAGAAGAA
GATGATGATGATGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202360 representing BC064790
Red=Cloning site Green=Tags(s)

MGKGDPPKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSAKEKGFEDMAKADKAR
 YEREMKTYIPPKGETKKKFKDPNAPKRPLAFLFCSEYRPIKGEHPGLSIGDVAKKLGEMWNNTAADD
 KQPYEKKAALKKEYEKDIAAYRAKGKPDAAKKGVVKAESKSKKKKEEEDDEEEDDEEEDDEEEDDEE
 DDDDE

TRTRPLE - GFP Tag - V

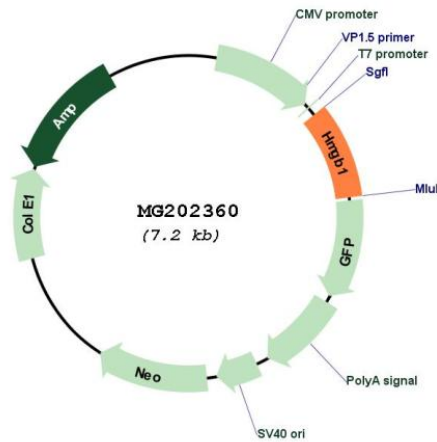
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC064790

ORF Size: 647 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 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [BC064790](#), [AAH64790](#)

RefSeq Size: 1612 bp

RefSeq ORF: 647 bp

Locus ID: 15289

Cytogenetics: 5 89.18 cM

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]