

Product datasheet for **RR202856**

Hmgb2 (NM_017187) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hmgb2 (NM_017187) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hmgb2
Synonyms: Hmg2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR202856 representing NM_017187
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCAAGGGGGACCCCAACAAGCCGGGGCAAGATGTCTCGTACGCCTTCTCGTGCAGACCTGCC
 GGGAGGAGCACAAGAAGAAGCATCCGACTCGTCGGTCAACTTCGCCGAGTTCTCGAAGAAATGTTCCGA
 GAGATGGAAGACCATGTCTGCCAAGGAAAAGTCAAGTTTGAGGATTTGGCCAAGAGCGACAAGCTCGT
 TATGACAGGGAGATGAAGAACTATGTTCTCCAAAGGTGATAAGAAAGGAAAGAAAAAAGATCCAATG
 CTCCCAAGAGACCACCGTCTGCCTTCTTCTGTTTTGCTCTGAACATCGCCCAAAGATCAAAGTGAACA
 CCCCAGGCTGTCTATTGGAGATACTGCAAAGAACTGGGGGAGATGTGGTCTGAGCAATCTGCCAAAGAT
 AAACAACCGTATGAGCAGAAAGCAGCTAACTAAAGGAGAAGTATGAAAAGGATATTGCTGCATACCGTG
 CCAAGGGCAAAGTGAAGTAGGAAAGAAGGGTCTGGTAGGCCAACAGGCTCAAAGAAGAAGATGAACC
 AGAAGATGAGGAAGAGGAGGAGGAGGAGGAAGATGATGAAGATGAAGAGGAGGAAGATGAGGATGAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202856 representing NM_017187
 Red=Cloning site Green=Tags(s)

MGKGDPNKPRGKMSSYAFFVQTCREEHKKKHPDSSVNF AEF SKKCSERWKTMSAKEKSKFEDLAKSDKAR
 YDREMKNYVPPKGDKKKKDPNAPKRPPSAFFLFCSEHRPKIKSEHPGLSIGDTAKKL GEMWSEQSAKD
 KQPYEQKAAKLKEYEKDIAAYRAK GKSEVGGKGPGRPTGSKKNEPEEEEEEEDEDEEEDEDEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

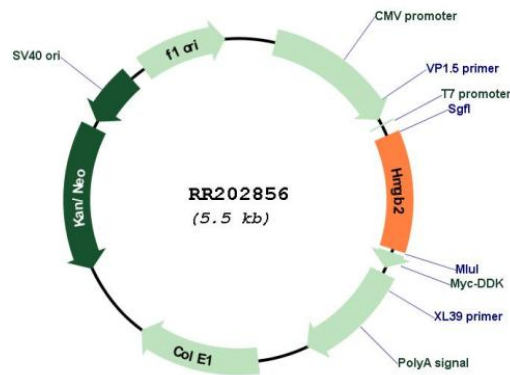


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Cloning Scheme:



Plasmid Map:



ACCN: NM_017187

ORF Size: 630 bp

OTI Disclaimer: 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: [NM_017187.2](#), [NP_058883.1](#)

RefSeq Size: 1225 bp

RefSeq ORF: 633 bp

Locus ID: 29395

UniProt ID: [P52925](#)

Cytogenetics: 16p11

MW: 24.2 kDa

Gene Summary: non-histone chromosomal DNA-binding protein; proteins of this family are associated with chromatin and ubiquitously distributed in the nucleus of eukaryotic cells [RGD, Feb 2006]