

Product datasheet for **RG200750**

HMGB2 (NM_002129) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HMGB2 (NM_002129) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HMGB2
Synonyms: HMG2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200750 representing NM_002129
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGTAAAGGAGACCCCAACAAGCCGCGGGGCAAAATGTCCTCGTACGCCTTCTTCGTGCAGACCTGCC
 GGGAAAGAGCACAAGAAGAAACACCCGGACTCTCCGTCAATTCGCGGAATTCCTCAAGAAGTGTTCGGA
 GAGATGGAAGACCATGTCTGCAAAGGAGAAGTCAAGTTGAAGATATGGCAAAAAGTGACAAAGCTCGC
 TATGACAGGGAGATGAAAAATTACGTTCTCCAAAGGTGATAAGAAGGGGAAGAAAAGGACCCCAATG
 CTCTAAAAGGCCACCATCTGCCTTCTCTGTTTTGCTCTGAACATCGCCAAAGATCAAAGTGAACA
 CCCTGGCTATCCATTGGGGATACTGCAAAGAAATGGGTGAAATGTGGTCTGAGCAGTCAGCCAAAGAT
 AAACAACCATATGAACAGAAAGCAGCTAAGCTAAAGGAGAAATATGAAAAGGATATTGCTGCATATCGTG
 CCAAGGGCAAAAGTGAAGCAGGAAAGAAGGGCCCTGGCAGGCCAACAGGCTCAAAGAAGAAGAACGAAC
 AGAAGATGAGGAGGAGGAGGAGGAAGAAGAAGATGAAGATGAGGAGGAAGAGGATGAAGATGAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200750 representing NM_002129
 Red=Cloning site Green=Tags(s)

MKGDPNKPGRKMSSYAFFVQTCREEHKKKHPDSSVNF AEF SKKCSERWKTMSAKEKSKFEDMAKSDKAR
 YDREMKNYVPPKGDKKKKKDPNAPKRPPSAFFLFCSEHRPKIKSEHPGLSIGDTAKKLGEMWSEQSAKD
 KQPYEQKAAKLKEKYEKDIAAYRAK GKSEAGKKGPRPTGSKKKNPEDEEEEEEEEEDEEEEEDEE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_002129

ORF Size: 627 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_002129.4](#)

RefSeq Size: 1277 bp

RefSeq ORF: 630 bp

Locus ID: 3148

UniProt ID: [P26583](#)

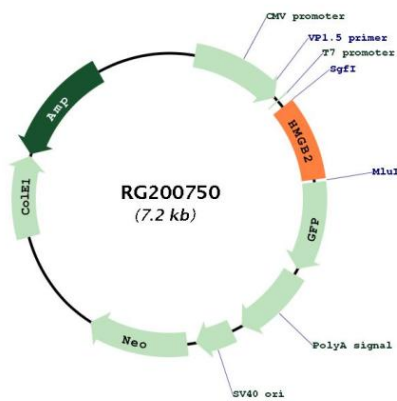
Cytogenetics: 4q34.1

Domains: HMG

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a member of the non-histone chromosomal high mobility group protein family. The proteins of this family are chromatin-associated and ubiquitously distributed in the nucleus of higher eukaryotic cells. In vitro studies have demonstrated that this protein is able to efficiently bend DNA and form DNA circles. These studies suggest a role in facilitating cooperative interactions between cis-acting proteins by promoting DNA flexibility. This protein was also reported to be involved in the final ligation step in DNA end-joining processes of DNA double-strand breaks repair and V(D)J recombination. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200750