

Product datasheet for **SC324789**

HMGB2 (NM_001130689) Human Untagged Clone

Product data:

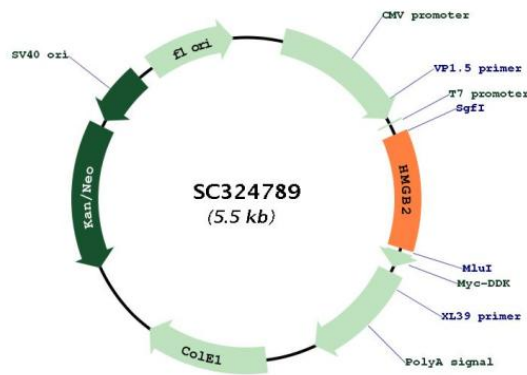
Product Type:	Expression Plasmids
Product Name:	HMGB2 (NM_001130689) Human Untagged Clone
Tag:	Tag Free
Symbol:	HMGB2
Synonyms:	HMG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC324789 representing NM_001130689. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGGGTAAAGGAGACCCCAACAAGCCGGGGCAAATGTCTCGTACGCCTTCTCGTGCAGACCTGC
CGGAAGAGCACAAGAAGAAACCCGGACTCTCCGTCAATTCGCGGAATTCCTCAAGAAGTGTTCG
GAGAGATGGAAGACCATGTCTGCAAAGGAGAAGTCGAAGTTTGAAGATATGGCAAAAAGTGACAAAGCT
CGCTATGACAGGGAGATGAAAAATTACGTTCTCCCAAAGGTGATAAGAAGGGGAAGAAAAGGACCCC
AATGCTCCTAAAAGGCCACCATCTGCCTTCTTCTGTTTTGCTCTGAACATCGCCCAAAGATCAAAGT
GAACACCCTGGCCTATCCATTGGGGATACTGCAAAGAAATGGGTGAAATGTGGTCTGAGCAGTCAGCC
AAAGATAAACAACCATATGAACAGAAAGCAGCTAAGCTAAAGGAGAAATATGAAAAGGATATTGCTGCA
TATCGTGCCAAGGGCAAAGTGAAGCAGGAAAGAAGGGCCCTGGCAGGCCAACAGGCTCAAAGAAGAAG
AACGAACCAGAAGATGAGGAGGAGGAGGAAGAAGAAGATGAAGATGAGGAGGAAGAGGATGAAGAT
GAAGAATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001130689

Insert Size: 630 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001130689.1](#)

RefSeq Size: 1454 bp

RefSeq ORF: 630 bp

Locus ID: 3148

UniProt ID: [P26583](#)

Cytogenetics: 4q34.1

Protein Families: Druggable Genome, Transcription Factors

MW: 24 kDa

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]

Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 1.