

Product datasheet for **RR210071**

Hmgn5b (NM_001134706) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hmgn5b (NM_001134706) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hmgn5b
Synonyms:	Hmgn5; Hmgn5l1; Nsbp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR210071 representing NM_001134706
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCCCAAAGAAAGGCTGCAGGTGATGCGAGCCAGGAGCCAAAGAGAAGATCGGCTCGACTGTCTGCTA
 TGCTGTGCCCTTTACACCGGAGTTGAAACCTAAAGAGCATCAACTTCAAGGAAAACGAAGACCACAAA
 TGTCTGGAAGAAAGCAAGATGCAGGTGCCACACAATTCTGAAACCAAGCCAGAAGTTGTTAAAGGA
 GAATGCAACATGGAATGCTGAAATGGAGAAGCCAAATTTATTGAGGCACCCATTTCTAAAATGGAAA
 CTGAGGAAGTAAAGAACAGATAAATGAAGACACTGAAGGAGATGGAGGAGAAAAGAAAGAGCAGTGGT
 AACAAAAGGCAAAATGATGAGCTAGAAGCAACATTCAAGATGTGGAGAAAGATGAAGATGAAAAAGAG
 CACGAAGATACAGGTGAGGAGGGAGAAGATGGGAAAGGGAAGGAGGCCTAAAAGAGAAACCAGATGTAG
 CTGAAATCGAAGACGCAAGGAGGCCAAAGATGATGAAGAGAAGGAAGACAAGGAAAAAGAGATGACAA
 AGGAGGTGATGGGAAGAAGGAAGAAGAGAAGATGATGAGGGGGAAGCTGAAACAGAGGAAGAAGTAAAA
 GAACAACAGAAAGAGGAACTGAGGGGGATGATGGGAAATGCAAGTAGAGGAAAACAAGGAAGGCAGAA
 AGGAAAGTCAGCATGAGGAAGAAGGAAGGAAGAGCTGCATGAGGAAGACGGAAGGAAGATCTGCATGA
 GGAAGACGGAAGGAAGATCTGCATGAGGAAGACGGAAGGAAGATCTGCATGAGGAAGAAGGAAGGA
 GATCTGCATGAGGAAGAAGGAAGGAAGATCTGCATGAGGAAGAAGGAAGGAAGATCTGCATGAGGAAG
 AAGGAAGGAAGATCTGCATGAGGAAGAGGGAAGGAAGATCTGCATGAGGAAGAAGGAAGGAAGATCT
 GCATGAGGAAGAAGGAAGGAAGATCTGCATGAGGAAGACGGAAGGAAGGTGAGCATGAGGAAGAAGGG
 AAGGAAGATCTGCATGAGGAAGAAGGAAGGAAGATCTGCATGAGGAAGACGGAAGGAAGGTGAGCATG
 AGGAAGACGGAAGGAAGGAAGGCTGACGGAACGAGGATAGAAAGGAAGAAGAAGCAAGAGGCTGCTAC
 AGAAGGGAATGATGAAAACAAGGTGGAGGTGGAAGAAGAAGCTGACAACAAGACTTCAAAGAAGATGGA
 GAGAAAGGGGAGCCTGTGAGCACTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210071 representing NM_001134706
 Red=Cloning site Green=Tags(s)

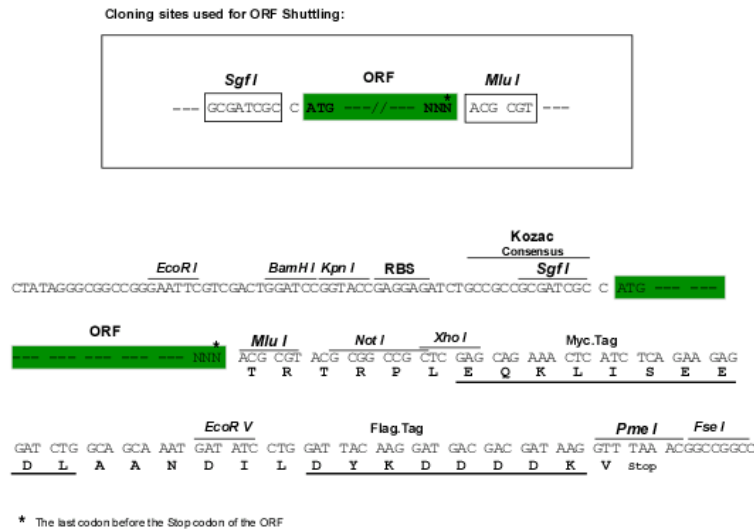
MPKRKAAGDASQEPKRRSARLSAMPVPFTPELKPRASTRKTKTTNVVEESKDAGATTIPETKPEVVKG
 ECNMENAEENGAKIIEAPISKMETEEVKEQINEDTEGDGGEKKEAVVTGKNDLEANIQDVEKDEDEKE
 HEDTGEEDGEREGGLKEKPDVAEIEDAKEAKDDEEKEDKEKEDDKGGDGKKEEEKDDEGEAEETEEVK
 EQQKEETEGDDGKCKVEENKEGRKESQHEEEGKEELHEEDGKEDLHEEDGKEDLHEEDGKEDLHEEEGKE
 DLHEEEGKEDLHEEEGKEDLHEEEGKEDLHEEEGKEDLHEEEGKEDLHEEEGKEDLHEEDGKEGQHEEEG
 KEDLHEEEGKEDLHEEDGKEGQHEEDGKKKADGNEDRKEEEEQEAATEGNDENKVEVEEADNKDFKEDG
 EKGEVPVSTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001134706

ORF Size: 1287 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_001134706.1](#), [NP_001128178.1](#)

RefSeq Size: 2066 bp

RefSeq ORF: 1290 bp

Locus ID: 681284

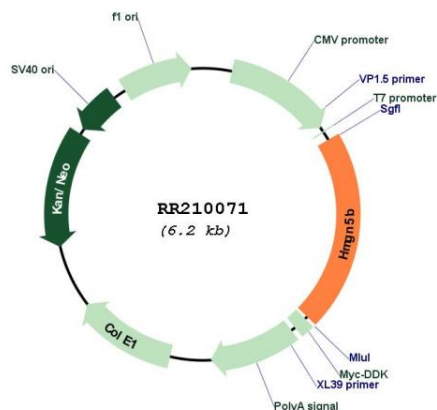
UniProt ID: [B4F777](#)

Cytogenetics: 1q22

MW: 48.6 kDa

Gene Summary: Preferentially binds to euchromatin and modulates cellular transcription by counteracting linker histone-mediated chromatin compaction.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR210071