

## Product datasheet for **MC212017**

### Hmgn3 (NM\_175074) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hmgn3 (NM\_175074) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Hmgn3  
**Synonyms:** 1110002A15Rik; 6330514M13Rik; BB071015; TRIP7  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC212017 representing NM\_175074  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCCGAAGAGAAAGTCTCCCGAGAACACAGAGGGCAAAGATGGAACCAAGCTAACTAAGCAGGAGCCCA  
CAAGACGGTCGGCCAGGTTGTCCGCGAAACCTGTTCCACAAAACCGGAGTCTAAACCAAGAAAAACATC  
AGCTAAGAAAGAACCTGGAACAAAGATTAGCAGAGGTGCTAAGGGGAAGAAGGAAGAAAAGCAGGAAGCT  
GGAGAGGAAGGCACAGAGAACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_175074  
**Insert Size:** 234 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).

**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).



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**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\\_175074.2](#), [NP\\_778249.1](#)

**RefSeq Size:** 882 bp

**RefSeq ORF:** 234 bp

**Locus ID:** 94353

**UniProt ID:** [Q9DCB1](#)

**Cytogenetics:** 9 E2

**Gene Summary:** Binds to nucleosomes, regulating chromatin structure and consequently, chromatin-dependent processes such as transcription, DNA replication and DNA repair. Affects both insulin and glucagon levels and modulates the expression of pancreatic genes involved in insulin secretion. Regulates the expression of the glucose transporter SLC2A2 by binding specifically to its promoter region and recruiting PDX1 and additional transcription factors. Regulates the expression of SLC6A9, a glycine transporter which regulates the glycine concentration in synaptic junctions in the central nervous system, by binding to its transcription start site. May play a role in ocular development and astrocyte function. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (b) uses an alternate donor splice site at the penultimate exon compared to variant a. This results in a frame-shift, early translation termination, and a shorter isoform (Hmgn3b) with a distinct C-terminus compared to isoform Hmgn3a.