

Product datasheet for **MR224740**

Hmgn3 (NM_026122) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hmgn3 (NM_026122) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hmgn3
Synonyms: 1110002A15Rik; 6330514M13Rik; BB071015; TRIP7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR224740 representing NM_026122
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCGAAGAGAAAGTCTCCCGAGAACACAGAGGGCAAAGATGGAACCAAGCTAACTAAGCAGGAGCCCA
CAAGACGGTCGGCCAGGTTGTCCGCGAAACCTGTTCCACCAAACCGGAGTCTAAACCAAGAAAAACATC
AGCTAAGAAAGAACCTGGAACAAAGATTAGCAGAGGTGCTAAGGGGAAGAAGGAAGAAAAGCAGGAAGCT
GGAGAGGAAGGTACTGCACCATCTGCAAATGGTGACACTAAAGTTGAAGAGGCACAGAGAACTGAATCTA
TAGAAAAGGAGGGAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224740 representing NM_026122
Red=Cloning site Green=Tags(s)

MPKRKSPENTEGKDGTKLTKQEPTRRSARLSAKPVPPKPEKPRKTSAKKEPGTKISRGAKGKKEEKQEA
GEEGTAPSANGDTKVVEEAQRTEIEKEGE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

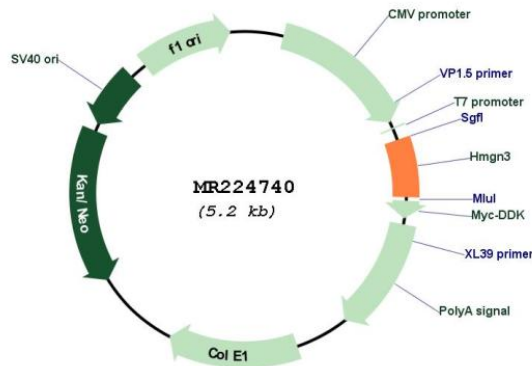


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Cloning Scheme:



Plasmid Map:



ACCN:

NM_026122

ORF Size:

297 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:	<ol style="list-style-type: none">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:	<u>NM_026122.4</u> , <u>NP_080398.1</u>
RefSeq Size:	923 bp
RefSeq ORF:	300 bp
Locus ID:	94353
UniProt ID:	<u>Q9DCB1</u>
Cytogenetics:	9 E2
MW:	11.2 kDa
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]