

Product datasheet for **RR215858**

Hmgn3 (NM_001201355) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hmgn3 (NM_001201355) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hmgn3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215858 representing NM_001201355
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCCGAAGAGAAAGTCTCTGAGAATGCCGAGGGCAAAGATGGAGCCAAGCTAACGAAGCAGGAGCCCA
CGAGACGGTCGGCCAGATTGTCAGCGAAACCTGTTCCACCAAACCGGAGCCTAAACCAAGAAAAACATC
TGCTAAGAAAGAACC CGGAACAAAGATTAACAGAGCTGCTAAGGGGAAGAAGGAAGAAAAGCAGGAAGCT
GGAAAGGAAGGTACTGCACCATCTGCAAATGGTGACACTAAAGCTGAAGAGATCCACGTCTCTCGTTCAA
CTGTTAATGTCTCAGCCTGCAGAAGTCCCCACCCAGCACACTGT CAGTAAAGGGCAGATTGAAACAGT
GAGAGTTAAGGGCACAGAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215858 representing NM_001201355
Red=Cloning site Green=Tags(s)

MPKRKSPENAEGKDGAKLTKQEPTRRSARLSAKPVPPKPEPKPRKTSAKKEPGTKINRAAKGKKEEKQEA
GKEGTAPSANGDTKAEIHSVSRSTVNVSACRSPPPSTLSVKGQIETVRVKGTEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

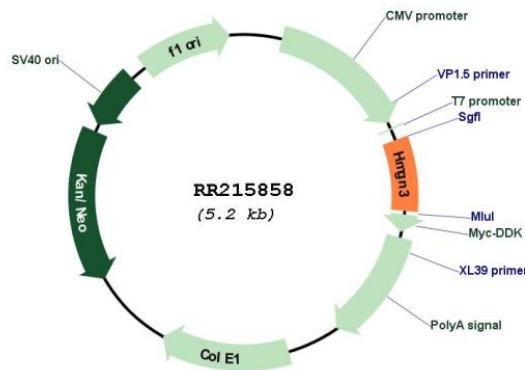


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM_001201355

ORF Size: 372 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_001201355.1, NP_001188284.1</u>
RefSeq Size:	998 bp
RefSeq ORF:	375 bp
Locus ID:	113990
UniProt ID:	<u>Q66H40</u>
Cytogenetics:	8q31
MW:	13.3 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 (By similarity).[UniProtKB/Swiss-Prot Function]