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Product datasheet for MR223312

Hmgn3 (NM_175074) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hmgn3 (NM_175074) 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:	>MR223312 representing NM_175074 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCGAAGAGAAAGTCTCCCGAGAACACAGAGGGCAAAGATGGAACCAAGCTAACTAAGCAGGAGCCCA CAAGACGGTCGGCCAGGTTGTCCGCGAAACCTGTTCCACCAAAACCGGAGTCTAAACCAAGAAAAACATC AGCTAAGAAAGAACCTGGAACAAAGATTAGCAGAGGTGCTAAGGGGAAGAAGGAAGAAAAGCAGGAAGCT GGAGAGGAAGGCACAGAGAAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR223312 representing NM_175074 Red=Cloning site Green=Tags(s) MPKRKSPENTEGKDGTKLTKQEPTRRSARLSAKPVPPKPESKPRKTSAKKEPGTKISRGAKGKKEEKQEA GEEGTEN TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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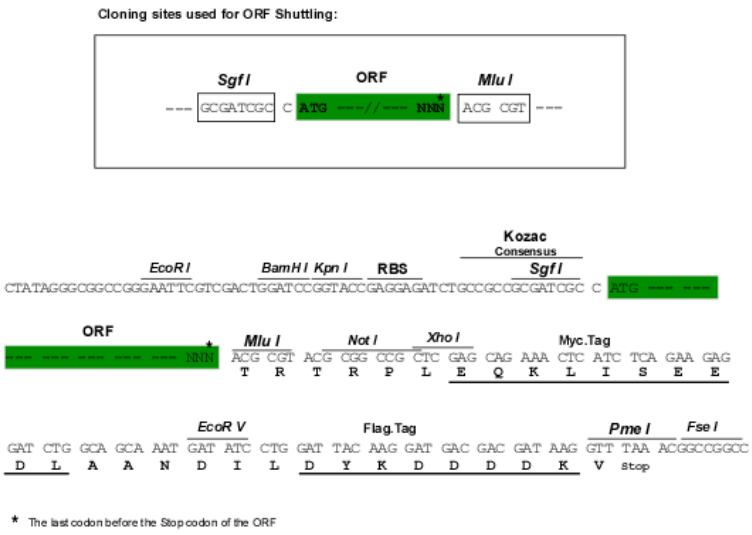
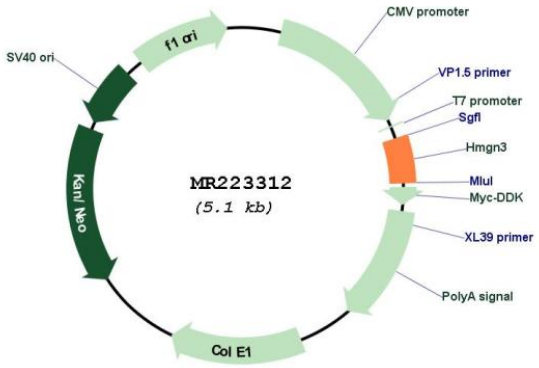
Cloning Scheme:



Plasmid Map:



ACCN: NM_175074

ORF Size: 231 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_175074.2, NP_778249.1
RefSeq Size:	882 bp
RefSeq ORF:	234 bp
Locus ID:	94353
UniProt ID:	Q9DCB1
Cytogenetics:	9 E2
MW:	8.9 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]