

Product datasheet for **MG200269**

Hmgn1 (NM_008251) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hmgn1 (NM_008251) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Hmgn1
Synonyms: HMG-14; Hmg14
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200269 representing NM_008251
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCAAGAGGAAGTTAGCGCGGATGGAGCCGCAAGGCGGAGCCCAAGCGCCGCTCCGCGAGGCTGT
CGGCCAAGCCCGCCCTGCCAAGGTGGACGCGAAGCCGAAAAAGCCGCGGAAAGGATAAAGCATCAGA
CAAAAAGTGCAGATAAAAGGGAAGAGGGGAGCGAAGGGCAAACAGGCTGACGTGGCTGACCAGCAAACC
ACAGAGCTGCCTGCAGAAAATGGAGAGACGAAAACCAGAGTCCAGCCTCTGAAGAAGAGAAAGAAGCTA
AGTCCGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200269 representing NM_008251
Red=Cloning site Green=Tags(s)
MPKRKVSADGAAKAEPKRRSARLSAKPAPAKVDAPKKAAGKDKASDKKQIKGKRGAKGKQADVADQQT
TELPANGETENQSPASEEEKEAKSD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

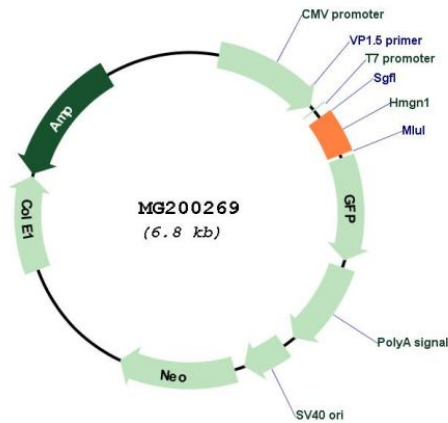


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Cloning Scheme:



Plasmid Map:



ACCN: NM_008251

ORF Size: 288 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_008251.3</u> , <u>NP_032277.3</u>
RefSeq Size:	1200 bp
RefSeq ORF:	291 bp
Locus ID:	15312
UniProt ID:	<u>P18608</u>
Cytogenetics:	16 56.83 cM
Gene Summary:	Binds to the inner side of the nucleosomal DNA thus altering the interaction between the DNA and the histone octamer. May be involved in the process which maintains transcribable genes in a unique chromatin conformation. Inhibits the phosphorylation of nucleosomal histones H3 and H2A by RPS6KA5/MSK1 and RPS6KA3/RSK2.[UniProtKB/Swiss-Prot Function]