

Product datasheet for **RC236669**

HMG4 (HMGB3) (NM_001301231) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HMG4 (HMGB3) (NM_001301231) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HMGB3
Synonyms: HMG-2a; HMG-4; HMG2A; HMG4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236669 representing NM_001301231
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCAAAGGATGGAATACTTCCTGCGCGTAAGCGCAATCCTTTCATCATTCGAATCAGGATGGCTAAAG
GTGACCCCAAGAAACAAAGGGCAAGATGTCGCTTATGCCTTCTTTGTGCAGACATGCAGAGAAGAACA
TAAGAAGAAAAACCAGAGGTCCCTGTCAATTTTGCAGAAATTTCCAAGAAGTGCTCTGAGAGGTGGAAG
ACGATGTCGGGAAAGAGAAATCTAAATTTGATGAAATGGCAAAGGCAGATAAAGTGCAGTATGATCGGG
AAATGAAGGATTATGGACCAGCTAAGGGAGGCAAGAAGAAGAAGGATCCTAATGCTCCCAAAGGCCACC
GTCTGGATTCTTCTGTTCTGTTTCTGTTTCCGCCCCAAGATCAAATCCACAAACCCCGGCATCTCTATT
GGAGACGTGGCAAAAAGCTGGGTGAGATGTGGAATAATTTAAATGACAGTGAAAAGCAGCCTTACATCA
CTAAGGCGGCAAAGCTGAAGGAGAAGTATGAGAAGGATGTTGCTGACTATAAGTCGAAAGGAAAGTTTGA
TGGTGCAAAGGGTCTGCTAAAGTTGCCCGAAAAAGGTGGAAGAGGAAGATGAAGAAGAGGAGGAGGAA
GAAGAGGAGGAGGAGGAGGAGGATGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236669 representing NM_001301231
 Red=Cloning site Green=Tags(s)

MQRMEILPARKRNPFIIRIRMAKGDPPKPKGKMSAYAFFVQTCREEHKKKNPEVPVNFVAFESKKCSERWK
 TMSGKEKSKFDEMAKADKVRDREMMDYGPAGGKGGKDPNAPKRPPSGFFLFCSEFRPKIKSTNPGISI
 GDVAKKLGEMWNNLNDSEKQPYITKAALKKEKYEKDVADYKSKGKFDGAKGPAKVARKKVEEEDDEEEEEE
 EEEEEEEDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

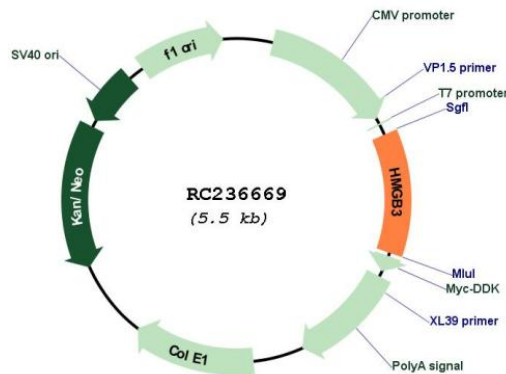
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301231

ORF Size: 660 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:	NM_001301231.2
RefSeq Size:	3606 bp
RefSeq ORF:	663 bp
Locus ID:	3149
UniProt ID:	O15347
Cytogenetics:	Xq28
Protein Families:	Transcription Factors
MW:	26 kDa
Gene Summary:	This gene encodes a member of a family of proteins containing one or more high mobility group DNA-binding motifs. The encoded protein plays an important role in maintaining stem cell populations, and may be aberrantly expressed in tumor cells. A mutation in this gene was associated with microphthalmia, syndromic 13. There are numerous pseudogenes of this gene on multiple chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]