

Product datasheet for RC236516

HMG4 (HMGB3) (NM_001301228) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HMG4 (HMGB3) (NM_001301228) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HMG4
Synonyms: HMG-2a; HMG-4; HMG2A; HMG4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC236516 representing NM_001301228
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCTAAAGGTGACCCCAAGAAACCAAGGGCAAGATGTCGGCTTATGCCTTCTTTGTGCAGACATGCA
 GAGAAGAACATAAGAAGAAAAACCCAGAGGTCCCTGTCAATTTTGCAGAAATTTCCAAGAAGTGCTCTGA
 GAGGTGGAAGACGATGTCGGGAAAGAGAAATCTAAATTTGATGAAATGGCAAAGGCAGATAAAGTGCGC
 TATGATCGGAAATGAAGGATTATGGACCAGCTAAGGGAGGCAAGAAGAAGAAGGATCCTAATGCTCCCA
 AAAGGCCACCGTCTGGATTCTTCTGTTCTGTTTCAGAATCCGCCCAAGATCAAATCCACAACCCCGG
 CATCTCTATTGGAGACGTGGCAAAAAGCTGGGTGAGATGTGGAATAATTTAAATGACAGTGAAAAGCAG
 CCTTACATCACTAAGCGGCAAAGCTGAAGGAGAAGTATGAGAAGGATGTTGCTGACTATAAGTCGAAAAG
 GAAAGTTTGTGGTGCAAGGGTCTGCTAAAGTTGCCCGGAAAAAGGTGGAAGGGAAGATGAAGAAGA
 GGAGGAGGAAGAAGAGGAGGAGGAGGAGGAGGATGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236516 representing NM_001301228
 Red=Cloning site Green=Tags(s)

MAKGDPKPKGKMSAYAFFVQTCREEHKKKNPEVPVNF AEF SKKCSERWKTMSGKEKSKFDEMAKADKVR
 YDREMKDYGPAKGGKKKDPNAPKRPPSGFFLCSEFRPKIKSTNPGISIGDVAKKLGEMWNNLNDSEKQ
 PYITKAAKLKEKYEKDVADYKSKGKFDGAKGPAKVARKKVEEEEEEEEEEEEEEEEEDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk8121_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001301228

ORF Size: 603 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_001301228.1](#), [NP_001288157.1](#)

RefSeq Size: 3676 bp

RefSeq ORF: 603 bp

Locus ID: 3149

UniProt ID: [O15347](#)

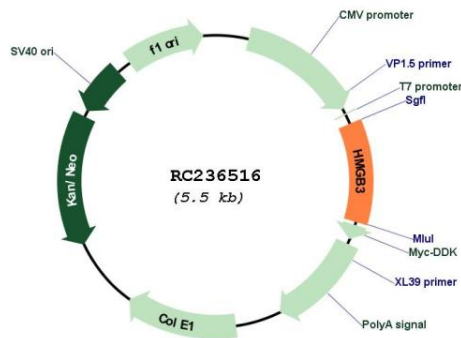
Cytogenetics: Xq28

Protein Families: Transcription Factors

MW: 23 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]

Product images:



Circular map for RC236516