

Product datasheet for **RC210454**

HMG14 (HMGN1) (NM_004965) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HMG14 (HMGN1) (NM_004965) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HMG14
Synonyms: HMG14
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC210454 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCAAGAGGAAGGTCAGCTCCACCGAAGGCGCCGCAAGGAAGAGCCCAAGAGGAGATCGGCGCGGT
TGTCAGCTAAACCTCCTGCAAAAGTGGAAGCGAATCCGAAAAAGGCAGCAGCGAAGGATAAATCTTCAGA
CAAAAAAGTGCAACAAAAGGGAAAAGGGGAGCAAGGGAAAACAGGCCGAAGTGGCTAACCAAGAACT
AAAGAAGACTTACCTGCGGAAAACGGGAAACGAAGACTGAGGAGAGTCCAGCCTCTGATGAAGCAGGAG
AGAAAGAAGCCAAGTCTGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210454 protein sequence
Red=Cloning site Green=Tags(s)
MPKRKVSSTEGAAKEEPKRRSARLSAKPPAKVEANPKKAAAKDKSSDKKVQTKGKRGAKGKQAEVANQET
KEDLPAENGETKTEESPASDEAGEKEAKSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6547_b06.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_004965

ORF Size: 300 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_004965.7](#)

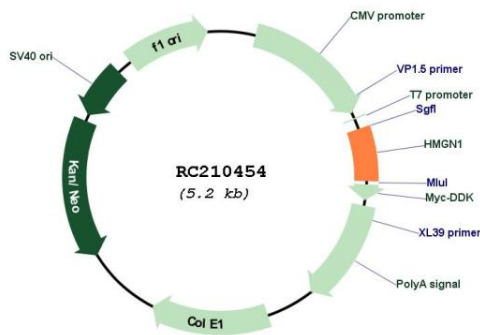
RefSeq Size: 1313 bp

RefSeq ORF: 303 bp

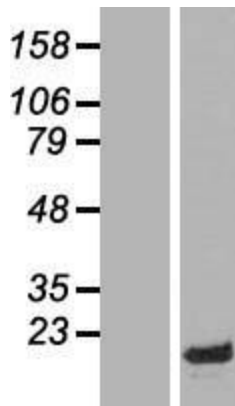
Locus ID: 3150

UniProt ID: [P05114](#)
Cytogenetics: 21q22.2
Protein Families: Transcription Factors
MW: 10.7 kDa
Gene Summary: The protein encoded by this gene binds nucleosomal DNA and is associated with transcriptionally active chromatin. Along with a similar protein, HMG17, the encoded protein may help maintain an open chromatin configuration around transcribable genes. [provided by RefSeq, Aug 2011]

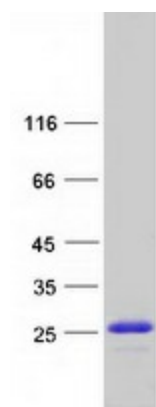
Product images:



Circular map for RC210454



Western blot validation of overexpression lysate (Cat# [LY417625]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210454 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HMGN1 protein (Cat# [TP310454]). The protein was produced from HEK293T cells transfected with HMGN1 cDNA clone (Cat# RC210454) using MegaTran 2.0 (Cat# [TT210002]).