

Product datasheet for RC214681

HMGA2 (NM 003484) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: HMGA2 (NM_003484) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: HMGA2

Synonyms: BABL; HMGI-C; HMGIC; LIPO; SRS5; STQTL9

Mammalian Cell Neomycin

Selection:

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Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC214681 representing NM_003484

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

AGAAAACATCTCTGGGAAACAGTACCAAAAGGAGTCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214681 representing NM_003484

Red=Cloning site Green=Tags(s)

MSARGEGAGQPSTSAQGQPAAPAPQKRGRGRPRKQQQEPTGEPSPKRPRGRPKGSKNKSPSKAAQKKAEA

TGEKRPRGRPRKWDNLLPRTSSKKKTSLGNSTKRSH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3260 d01.zip

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

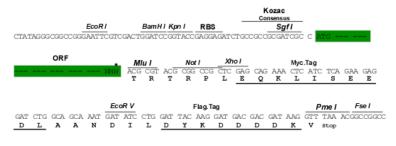
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_003484

ORF Size: 318 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: <u>NM 003484.1, NP 003475.1</u>

RefSeq Size: 1539 bp
RefSeq ORF: 321 bp
Locus ID: 8091



UniProt ID: P52926
Cytogenetics: 12q14.3

Protein Families: Druggable Genome

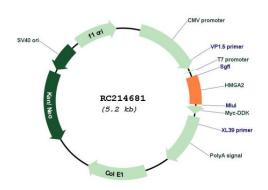
MW: 11.3 kDa

Gene Summary: This gene encodes a protein that belongs to the non-histone chromosomal high mobility

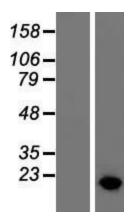
group (HMG) protein family. HMG proteins function as architectural factors and are essential components of the enhancesome. This protein contains structural DNA-binding domains and may act as a transcriptional regulating factor. Identification of the deletion, amplification, and rearrangement of this gene that are associated with myxoid liposarcoma suggests a role in adipogenesis and mesenchymal differentiation. A gene knock out study of the mouse counterpart demonstrated that this gene is involved in diet-induced obesity. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

[provided by RefSeq, Jul 2008]

Product images:

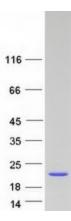


Circular map for RC214681



Western blot validation of overexpression lysate (Cat# [LY418572]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214681 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified HMGA2 protein (Cat# [TP314681]). The protein was produced from HEK293T cells transfected with HMGA2 cDNA clone (Cat# RC214681) using MegaTran 2.0 (Cat# [TT210002]).