

Product datasheet for **RC213403**

HMGN3 (NM_004242) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HMGN3 (NM_004242) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HMGN3
Synonyms: PNAS-24; PNAS-25; TRIP7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC213403 representing NM_004242
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGAAGAGAAAGTCTCCAGAGAATACAGAGGGCAAAGATGGATCCAAAGTAACTAAACAGGAGCCCA
CAAGACGGTCTGCCAGATTGTCAGCGAAACCTGCTCCACCAAACCTGAACCCAAACCAAGAAAAACATC
TGCTAAGAAAGAACCTGGAGCAAAGATTAGCAGAGGTGCTAAAGGAAGAAGGAGGAAAAGCAGGAAGCT
GGAAAGGAAGGTACTGCACCATCTGAAAATGGTAAAATAAGCTGAAGAGGCACAGAAAACCTGAATCTG
TAGATAACGAGGGAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213403 representing NM_004242
Red=Cloning site Green=Tags(s)
MPKRKSPENTEGKDGSKVTKQEPTRRSARLSAKPAPPKPEPKPRKTSAKKEPGAKISRGAKGKKEEKQEA
GKEGTAPSENGETKAEEAQKTESVDNEGE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6511_f12.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_004242

ORF Size: 297 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_004242.4](#)

RefSeq Size: 935 bp

RefSeq ORF: 300 bp

Locus ID: 9324

UniProt ID: [Q15651](#)

Cytogenetics: 6q14.1

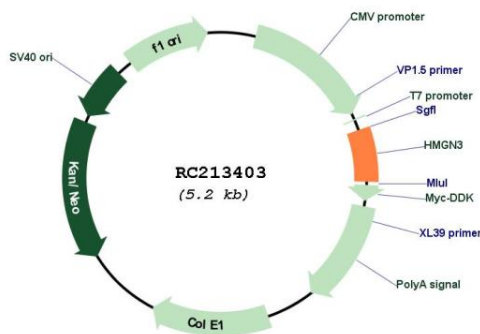
Domains: HMG14_17

Protein Families: Druggable Genome

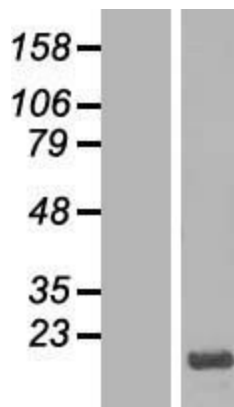
MW: 10.5 kDa

Gene Summary: The protein encoded by this gene binds thyroid hormone receptor beta in the presence of thyroid hormone. The encoded protein, a member of the HMGN protein family, is thought to reduce the compactness of the chromatin fiber in nucleosomes, thereby enhancing transcription from chromatin templates. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. There is a related pseudogene on chromosome 1. [provided by RefSeq, Jan 2016]

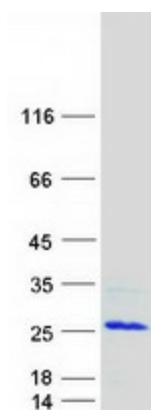
Product images:



Circular map for RC213403



Western blot validation of overexpression lysate (Cat# [LY418127]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213403 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HMGN3 protein (Cat# [TP313403]). The protein was produced from HEK293T cells transfected with HMGN3 cDNA clone (Cat# RC213403) using MegaTran 2.0 (Cat# [TT210002]).