

Product datasheet for **RC220703**

HOXA7 (NM_006896) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HOXA7 (NM_006896) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HOXA7
Synonyms: ANTP; HOX1; HOX1.1; HOX1A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC220703 representing NM_006896
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTTCTTCGTATTATGTGAACGCGCTTTTTAGCAAATATACGGCGGGGGCTTCTCTGTTCCAAAATG
 CCGAGCCGACTTCTTGCTCCTTTGCTCCCAACTCACAGAGAAGCGGCTACGGGGCGGGCGCCGGCGCCTT
 CGCCTCGACCGTCCGGGCTTATACAATGTCAACAGCCCCCTTATCAGAGCCCCCTTTCGTCCGGCTAC
 GGCTGGGCGCCGACGCCTACGGCAACCTGCCCTGCGCCTCCTACGACAAAACATCCCCGGCTCTGCA
 GTGACCTCGCAAAGGCGCTGCGACAAGACGGACGAGGGCGCGCTGCATGGCGCGCTGAGGCCAATTT
 CCGCATCTACCCCTGGATGCGGTCTTACAGACCTGACAGGAAGCGGGGCCAGACCTACACGCGCTAC
 CAGACGCTGGAGCTGGAGAAGGAGTTCCACTTCAACCGCTACCTGACGCGCGCCGCCGATTGAAATCG
 CCCACGCGCTCTGCCTACCCGAGCGCCAGATTAAGATCTGGTTCCAGAACCGCCGCATGAAGTGAAGAA
 AGAGCATAAAGACGAAGGTCCGACTGCCGCCGAGCTCCCAGGGCGCCGTGCCCTCTGCCGCCGCCACT
 GCTGCCCGGACAAGGCCGACGAGGAGGACGATGATGAAGAAGAGGAAGACGAGGAGGAA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



[View online »](#)

Protein Sequence: >RC220703 representing NM_006896
Red=Cloning site Green=Tags(s)

MSSSYVNALFSKYTAGASLFQNAEPTSCSFAPNSQRSGYGAGAGAFSTVPGLYNVNSPLYQSPFASGY
 GLGADAYGNLPCASYDQNIPLGLCDLAKGACDKTDEGALHGAAEANFRIYPWMRSSGPDKRGRQTYTRY
 QTLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMRMKWKEHKDEGPTAAAAPEGAVPSAAAT
 AADKADEEDDEEEEEDEEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_006896

ORF Size: 690 bp

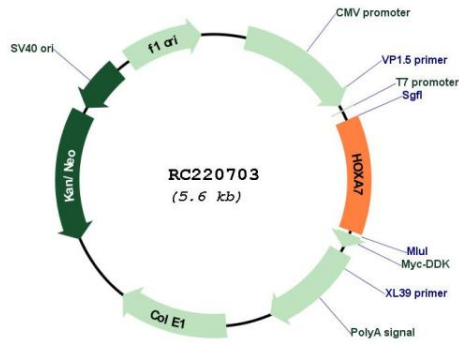
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

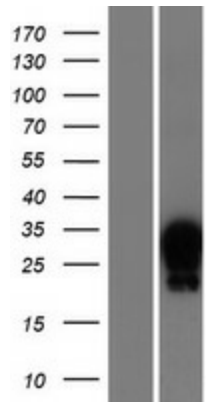
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_006896.4</u>
RefSeq Size:	2018 bp
RefSeq ORF:	693 bp
Locus ID:	3204
UniProt ID:	<u>P31268</u>
Cytogenetics:	7p15.2
Protein Families:	Transcription Factors
MW:	25.2 kDa
Gene Summary:	In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. This gene is part of the A cluster on chromosome 7 and encodes a DNA-binding transcription factor which may regulate gene expression, morphogenesis, and differentiation. For example, the encoded protein represses the transcription of differentiation-specific genes during keratinocyte proliferation, but this repression is then overcome by differentiation signals. This gene is highly similar to the antennapedia (Antp) gene of Drosophila. [provided by RefSeq, Jul 2008]

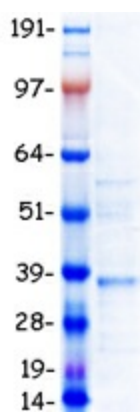
Product images:



Circular map for RC220703



Western blot validation of overexpression lysate (Cat# [LY416337]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220703 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HOXA7 protein (Cat# [TP320703]). The protein was produced from HEK293T cells transfected with HOXA7 cDNA clone (Cat# RC220703) using MegaTran 2.0 (Cat# [TT210002]).