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Product datasheet for RC213447

HOXA4 (NM_002141) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXA4 (NM_002141) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HOXA4
Synonyms:	HOX1; HOX1D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC213447 representing NM_002141
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCATGAGCTCGTTTTTGATAAACTCCAACTACATCGAGCCCAAGTTCCCTCCCTTCGAGGAGTACG
CGCAGCACAGCGGCTCGGGCGGCGCAGACGGCGGCCCGGGCGGGGGCCCCGGCTACCAGCAGCCCCCAGC
GCCCCCGACCCAGCACCTGCCGCTGCAGCAGCCCCAGCTCCCTCACGCGGGCGGCGGCCGAGAGCCCACT
GCCTCCTACTACGCGCCGCGGACCGCCCGCGAGCCCGCCTACCCTGCTGCCGCGCTGTACCCCGCGCATG
GGGCCGCGGACACCGCCTACCCCTATGGCTACCGCGGCGGCGCCAGCCCCGGGCGGCCGCCCCAGCCCGA
GCAGCCCCCGGCGCAAGCCAAGGGCCCAGCGCACGGCCTGCATGCGAGCCACGTCCTGCAGCCCCAGCTG
CCGCCGCCCCTGCAGCCTCGCGCCGTGCCCCCAGCGGCCCCGCGGCGCTGCGAGGCGGCCCCCGCCACCC
CAGGCGTCCCGGCAGGGGGCAGCGCCCCCGCGTGCCCGCTGCTCTTGGCCGACAAGAGCCCGCTGGGCCT
GAAGGGCAAGGAGCCCGTGGTGTACCCCTGGATGAAGAAGATCCATGTCAGCGCCGTTAACCCCAGTTAT
AACGGAGGGGAGCCTAAGCGCTCTCGAACCGCCTACACCCGGCAGCAGGTCTTGGAGCTGGAGAAGGAGT
TCCACTTCAATCGATACCTGACCCGGCGGCGCCGCATCGAGATCGCCCACACGCTCTGTTTGTCTGAGCG
CCAGGTCAAGATCTGGTTTCAGAACCGGAGGATGAAGTGGAAGAAAGACCACAAACTGCCCAACACCAAG
ATGCGATCCTCCAATTCGGCCTCGGCCTCTGCCGGCCCACCAGGGAAAGCACAAACTCAGAGCCCACACC
TCCATCCCCACCCCCACCCGAGCACCTCCACACCCGTTCCCTCCTCCATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC213447 representing NM_002141
Red=Cloning site Green=Tags(s)

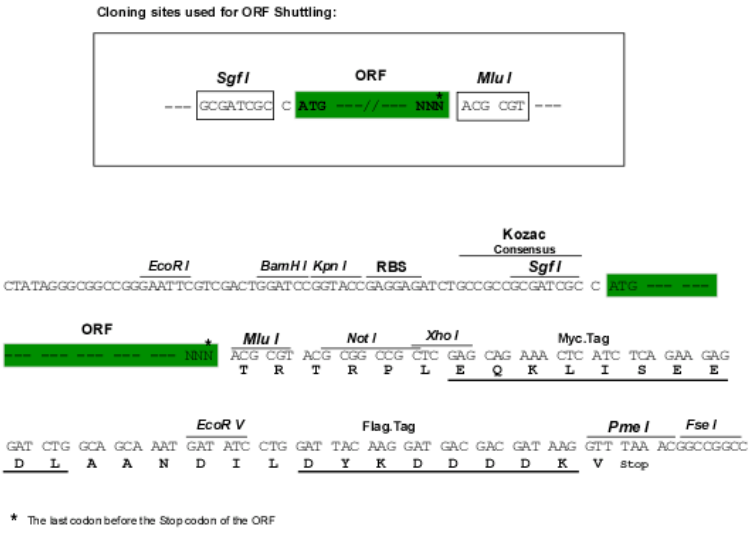
MTMSSFLINSNYIEPKFPPFEEYAQHSGSGGADGGPGGGPGYQQPPAPPTQHLPLQQPQLPHAGGGREPT
ASYYAPRTAREPAYPAAALYPAHGAADTAYPYGYRGGASPGRPPQPEQPPAQAKGPAHGLHASHVLQPQL
PPPLQPRAVPPAAPRRCEAAPATPGVPAGGSAPACPLLLADKSPLGLKGKEPVVYPWMKKIHVSAVNPSY
NGGEPKRSRTAYTRQQVLELEKEFHFNRYLTRRRRIEIAHTLCLSERQVKIWFQNRRMKWKKDHKLPNTK
MRSSNSASASAGPPGKAQTQSPHLHPHPHPSTSTPVPSSI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8115_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002141

ORF Size: 960 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_002141.5

RefSeq Size: 1728 bp

RefSeq ORF: 963 bp

Locus ID: 3201

UniProt ID: Q00056

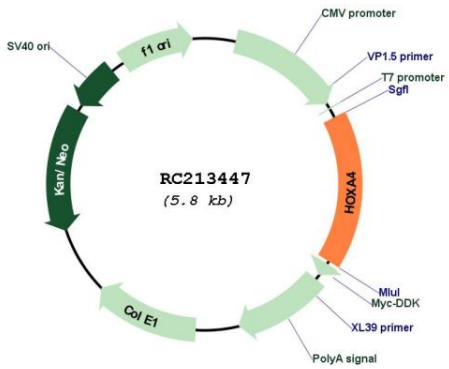
Cytogenetics: 7p15.2

Protein Families: Transcription Factors

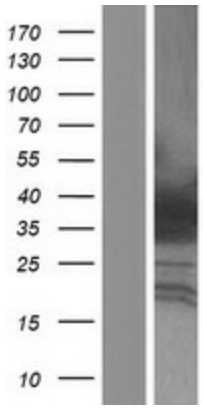
MW: 34.5 kDa

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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC213447



Western blot validation of overexpression lysate (Cat# [LY419504]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213447 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).