

Product datasheet for **RC208048**

HOXA11 (NM_005523) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXA11 (NM_005523) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HOXA11
Synonyms:	HOX1; HOX11; RUSAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208048 representing NM_005523 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATTTTGATGAGCGTGGTCCCTGCTCCTCTAACATGTATTTGCCAAGTTGTACTTACTACGTCTCGG
GTCCAGATTTCTCAGCCTCCCTTCTTTTCTGCCCCAGACCCCGTCTTCGCGCCAATGACATACTCCTA
CTCCTCCAACCTGCCCCAGGTCCAACCCGTGCGGAAGTGACCTTCAGAGAGTACGCCATTGAGCCCGCC
ACTAAATGGCACCCCGCGCAATCTGGCCACTGCTACTCCGCGGAGGAGCTCGTGACAGAGACTGCC
TGCAGGCGCCAGCGCGCGCGGTGCCGCGGACGTGCTGGCCAAGAGCTCGGCCAACGTCTACCACCA
CCCCACCCCGCAGTCTCGTCCAATTTCTATAGCACCGTGGGCAGGAACGCGTCTGCCACAGGCTTTC
GACCAGTTTTTCGAGACAGCCTACGGCACCCCGGAAAACCTCGCCTCCTCCGACTACCCCGGGACAAGA
GCGCCGAGAAGGGGCCCGCGGCCACGGCGACCTCCGCGCGCGCGCGGCTGCAACGGGCGCGCC
GGCAACTTCAAGTTCCGACAGCGCGCGCGCGGCTGCCGGGAGACGGCGCGGCAGCAGAGGAGAAA
GAGCGGCGCGCGCGCCCGAGAGCAGCAGCAGCCCGAGTCGTCTTCGGCCACTGAGGACAAGGCCG
GCGGCTCCAGTGGCCAACGCACCCGAAAAAGCGCTGCCCTATACCAAGTACCAGATCCGAGAGCTGGA
ACGGGAGTTCTTCTCAGCGTCTACATTAACAAAGAGAAGCGCTGCAACTGTCCCGCATGCTCAACCTC
ACTGATCGTCAAGTCAAATCTGGTTTCAGAACAGGAGAATGAAGGAAAAAAAAAATTAACAGAGACCGTT
TACAGTACTACTCAGCAAATCCACTCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208048 representing NM_005523
Red=Cloning site Green=Tags(s)

MDFDERGPCSSNMYLPSTCTYYVSGPDFSSLPFLPQTPSSRPMTYSYSSNLPQVQPVREVTFREYAI EPA
 TKWHPRGNLAHCYSAEELVHRDCLQAPSAAGVPGDVLAKSSANVYHHPPTAVSSNFYSTVGRNGVLPQAF
 DQFFETAYGTPENLASSDYPGDKSAEKPPAATATSAAAAAATGAPATSSSDSGGGGGCRETAAAAAEEK
 ERRRRPESSSSPESSSGHTEKAGGSSGQTRKKRCPYTKYQIRELEREFFFSVYINKEKRLQLSRMLNL
 TDRQVKIWFQNRMRKEKKINRDLQYYSANPLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2919_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_005523

ORF Size: 939 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_005523.6](#)

RefSeq Size: 2295 bp

RefSeq ORF: 942 bp

Locus ID: 3207

UniProt ID: [P31270](#)

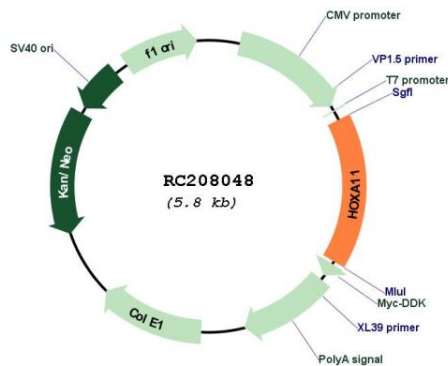
Cytogenetics: 7p15.2

Protein Families: Transcription Factors

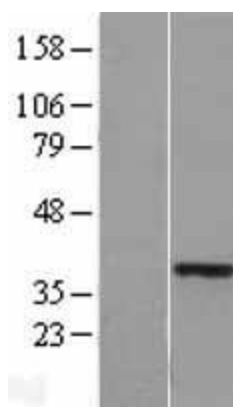
MW: 34.3 kDa

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. This gene is involved in the regulation of uterine development and is required for female fertility. Mutations in this gene can cause radio-ulnar synostosis with amegakaryocytic thrombocytopenia. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC208048



Western blot validation of overexpression lysate (Cat# [LY417250]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208048 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).