

Product datasheet for RC201475

HOXC11 (NM_014212) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXC11 (NM_014212) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HOXC11
Synonyms:	HOX3H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201475 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTAACTCGGTCAACCTGGGCAACTTCTGCTCGCCGTCGCGCAAGGAGAGGGGCGCAGATTTCCGGC
AGCGAGGGAGCTGCGCCTCCAACCTCTATCTGCCAGTTGCACTTACTACATGCCCGAGTTCTCCACGGT
CTTCTCCTTCTGCCAGGCCCTCTCGTCAGATCTCCTATCCCTACTCGGCCAAGTGCCCCGGTC
CGGGAGGTCTCTACGGCTGGAGCCATCCGGCAAGTGGCACCATCGGAACAGCTACTCCTCCTGCTATG
CGGCGGCCGACGAGCTTATGCACCGGGAGTGCCTGCCTCCTTCCACCGTCAACGAGATCCTCATGAAAA
CGAAGGCTCCTACGGCGGCCACCACCCAGCGCCCGCACGCAACCCCGCCGGCTTCTACTCCTCA
GTCAACAAGAACAGCGTCTGCCTCAAGCCTTCGACCGTTTCTTCGACAACGCCTACTGCGGTGGCGCG
ACCCGCCCGCCGAGCCCCCTGCTCCGGCAAGGGCGAGGCCAAGGGGGAGCCGAGGCACCCCGGCCCTC
GGGACTGGCGTCCCGGGCTGAGGCGGGTGCCGAGGCGGAGGCTGAGGAGGAGAACAACAAATCCCAGCTCG
TCCGGTTCAGCCCACTCCGTGGCCAAGGAGCCGGCCAAAGGAGCCGCCCAACGCCCCCGCACCCGCA
AGAAGCGCTGCCCTTATTCGAAATTCAGATCCGGAACTGGAGCGAGAGTTTTTCTTCAACGTGTATAT
CAACAAAGAGAAGCGGCTGCAGCTGTCCCGATGCTGAACCTGACGGACCGACAAGTGAAAAATTTGGTTT
CAGAACAGAAGGATGAAAGAAAAGAACTGAGCAGAGACCGGCTGCAGTATTTCTCGGGAATCCTCTGC
TG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201475 protein sequence
Red=Cloning site Green=Tags(s)

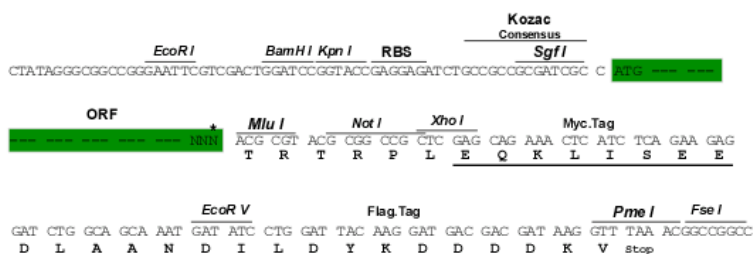
MFNSVNLGNFCSPSRKERGADFGERGSCASNLYLPSCYYMPEFSTVFSFLPQAPSRQISYPYSAQVPPV
 REVSYGLEPSGKWHHRNSYSSCYAAADELMHRECLPSTVTEILMKNEGSYGGHHHPSAPHATPAGFYSS
 VNKNVLPQAFDRFFDNAYCGGGPPAEPPPCSGKGEAKGEPEAPPASGLASRAEAGAEAEAEENTNPSS
 SGSAHSVAKPAKGAAPNAPRTRKRCPSYKRFQIRELEREFFNVYINKEKRLQLSRMLNLTDRQVKIWF
 QNRMMKEKKLSRDRLQYFSGNPLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6323_h09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_014212

ORF Size: 912 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_014212.4](#)

RefSeq Size: 2100 bp

RefSeq ORF: 915 bp

Locus ID: 3227

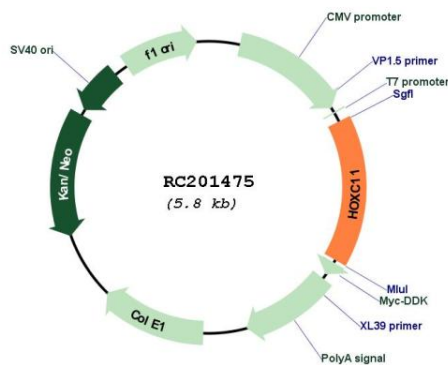
UniProt ID: [O43248](#)

Cytogenetics: 12q13.13

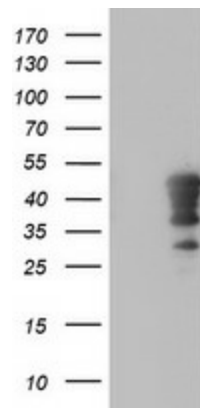
MW: 33.8 kDa

Gene Summary: This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, which are located on different chromosomes and consist of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXC genes located in a cluster on chromosome 12. The product of this gene binds to a promoter element of the lactase-phlorizin hydrolase. It also may play a role in early intestinal development. An alternatively spliced variant encoding a shorter isoform has been described but its full-length nature has not been determined. [provided by RefSeq, Jul 2008]

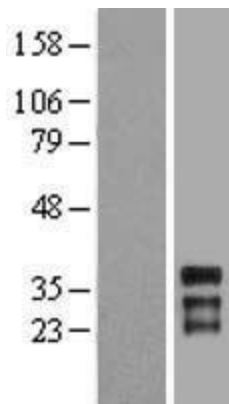
Product images:



Circular map for RC201475



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HOXC11 (Cat# RC201475, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HOXC11 (Cat# [TA502572]). Positive lysates [LY415427] (100ug) and [LC415427] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415427]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201475 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).