

Product datasheet for **RG201475**

HOXC11 (NM_014212) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXC11 (NM_014212) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOXC11
Synonyms:	HOX3H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201475 representing NM_014212 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTAACTCGGTCAACCTGGGCAACTTCTGCTCGCCGTCGCGCAAGGAGAGGGGCGCAGATTTGGCG
AGCGAGGGAGCTGCGCCTCCAACCTCTATCTGCCAGTTGCACTTACTACATGCCCGAGTTCTCCACGGT
CTTCTCCTTCTGCCCCAGGCCCTCTCGTCAGATCTCCTATCCCTACTCGGCCAAGTCCCCCGGTC
CGGGAGGTCTCTACGGCTGGAGCCATCCGGCAAGTGGCACCATCGGAACAGCTACTCCTCCTGCTATG
CGGCGGCCGACGAGCTTATGCACCGGGAGTGCCTGCCTCCTTCCACCGTCAACGAGATCCTCATGAAAA
CGAAGGCTCCTACGGCGGCCACCACCCAGCGCCCGCACGCAACCCCGCCGGCTTCTACTCCTCA
GTCAACAAGAACAGCGTCTGCCTCAAGCCTTCGACCGTTTTCTCGACAACGCCTACTGCGGTGGCGCG
ACCCGCCCGCGAGCCCCCTGCTCCGCAAGGGCGAGGCCAAGGGGGAGCCGAGGCACCCCGGCCCTC
GGGACTGGCGTCCCGGGCTGAGGCGGGTGCCGAGGCGGAGGCTGAGGAGGAGAACAACAAATCCCAGCTCG
TCCGGTTCAGCCCACTCCGTGGCCAAGGAGCCGGCCAAAGGAGCCGCCCAACGCCCCCGCACCCGCA
AGAAGCGTGCCTTATTCGAAATTCAGATCCGGAACTGGAGCGAGAGTTTTTCTTCAACGTGTATAT
CAACAAAGAGAAGCGGCTGCAGCTGTCCCGATGCTGAACCTGACGACCGACAAGTGAAAATTTGGTTT
CAGAACAGAAGGATGAAAGAAAAGAACTGAGCAGAGACCGGCTGCAGTATTTCTCGGAAATCCTCTGC
TG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201475 representing NM_014212
Red=Cloning site Green=Tags(s)

MFNSVNLGNFCSPSRKERGADFGERGSCASNLYLPSCYYMPEFSTVFSFLPQAPSRQISYPYSAQVPPV
 REVSYGLEPSGKWHHRNSYSSCYAAADELMHRECLPPSTVTEILMKNEGSYGGHHPSAPHATPAGFYSS
 VNKNSVLPQAFDRFFDNAYCGGGDPPAEPPPCSGKGEAKGEPEAPPASGLASRAEAGAEAEAEENTNPSS
 SGAHSVAKPAKGAAPNAPRTRKRCRCPYSKFQIRELEREFFFNVIYINKEKRLQLSRMLNLTDRQVKIWF
 QNRRMKEKKLSRDRLQYFSGNPLL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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_014212.3](#), [NP_055027.1](#)

RefSeq Size: 2100 bp

RefSeq ORF: 915 bp

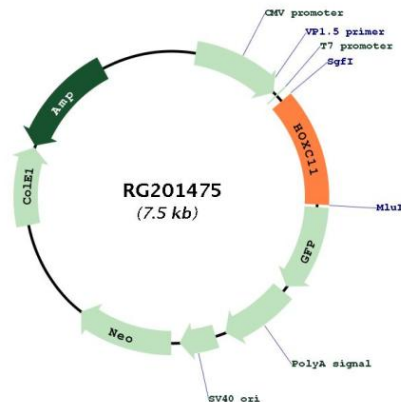
Locus ID: 3227

UniProt ID: [O43248](#)

Cytogenetics: 12q13.13

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 RG201475