

## Product datasheet for SC304920

### HOXD12 (NM\_021193) Human Untagged Clone

#### Product data:

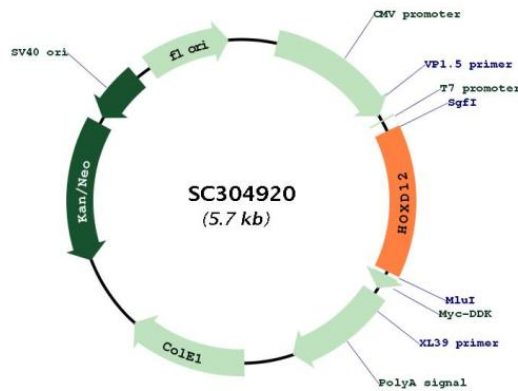
Product Type:	Expression Plasmids
Product Name:	HOXD12 (NM_021193) Human Untagged Clone
Tag:	Tag Free
Symbol:	HOXD12
Synonyms:	HOX4H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304920 representing NM_021193. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGTGAGCGCAGTCTCTACAGAGCGGGCTATGTGGGCTCGCTTCTGAATCTGCAGTCGCCAGACTCT
TTCTACTTCTCCAACCTGAGGCCGAATGGCGGCCAGTTGGCCGCGCTTCCCCCTATCTCTACCCGCGC
GGCGCGCTGCCCTGGGCCGCCACGCCCGCCTCTGCGCCCCGCGCAGCCTGCGGGCGCCACTGCCTTC
GGCGGCTTCTCGCAGCCCTACCTGGCTGGCTCCGGGCTCTCGGCTGCAGCCCCAACAGCCAAAGAC
GGACCCGAAGAGCAGGCTAAGTTCTATGCGCCGAAGCGGCCGCTGGGCCAGAGGAGCGGGTCTGACC
CGGCCGCTCTCGCCCCGAGTCTAGCCTGGCTCCTGCAGTGGCTGCTCTCAAAGCGCCAAAGTATGAC
TACGCTGGTGTGGTCTGTGCCACGCCGGCTCCACGACCCTGCTCCAGGGGGCTCCCTGCGCCCCCTGGC
TTCAAGGACGACACCAAGGGCCCGCTCAACTTGAACATGACAGTGCAGGCGGGCGGGCTTGCCTCTTGC
CTGCGACCTTCACTGCCGACGGCTGCCGTGGGGGGCGCCCCGGGGAGGGCCGCAAGAAGCGGAAA
CCCTACACGAAGCAGCAGATTGCGGAGTTGGAGAACGAATTCCTCGTCAACGAATTCATCAACAGGCAG
AAACGCAAGGAATTGTCCAATAGGCTGAACCTCAGCGACCAGCAAGTCAAATCTGGTCCAGAACAGG
CGTATGAAGAAGAAGCGCGTGGTGTCTTCGGGAGCAGGCGCTGGCGCTCTACTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_021193

**Insert Size:** 813 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_021193.3](#)

**RefSeq Size:** 813 bp

RefSeq ORF: 813 bp

Locus ID: 3238

UniProt ID: [P35452](#)

Cytogenetics: 2q31.1

Protein Families: Druggable Genome

MW: 29 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, located on different chromosomes, consisting of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXD genes located in a cluster on chromosome 2. Deletions that remove the entire HOXD gene cluster or the 5' end of this cluster have been associated with severe limb and genital abnormalities. The exact role of this gene has not been determined. [provided by RefSeq, Jul 2008]