

Product datasheet for **SC324520**

HOXD8 (NM_019558) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXD8 (NM_019558) Human Untagged Clone
Tag:	Tag Free
Symbol:	HOXD8
Synonyms:	HOX4; HOX4E; HOX5.4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_019558.2
 AGAGCCGGGGTTTGTAACCGAGGCCAGAGTGTCCCCGTGGGCCGAGCGCACTTTTTTCT
 TGTCCGGGTGCGCTCAGTCACTGGTGCCTGAGAGGAAACAGTGGAGGCAGCGGGGAGGT
 CGCCTGGGGCGTCGGCGATTATATTGCGGCCGAGCCGGGGCGCGCCGGAAAGGCCGGGA
 GGGCGGCGGCGCGGGGGCTGGGCGAGCCCCGCGACCCGCGAGGGAGGCGGCGCAAG
 CCGAGGCGGGCGGCGCAAGAGCCGGGCATGAGCGCCAGTAGCTGAGCGCCCGCGGTGC
 CTGGCCTCAGAAGCGCGCGAGCGGGCGGGCGGCGAGCAGCGACGTAGCCCGCGGT
 CCCGGCGGCGAGAGCAGCCGCCACAGGCCCGCGGCGAGTGCAGCCGAGTGCAGGCTC
 GCTCTCTGGCTGCTTAGCGCCGCCCGCCCGCCGGGGCCGCCGCGCTGACGCCCAATG
 AGTTCGTACTTTCGTGAACCCGCTGTACTCCAAGTACAAGCGGGCGGTGCGGCGGCGGG
 GCGGGGGCGAGGCCATCAATCCCACTTACTACGACTGTCACTTCGCGCCCGAGGTGCGC
 GGCCGTACGCGCCGCCGCGCAGCAGCCCTGCAGCTCTATGGCAACAGCGCCGCGGCTTC
 CCGCACGCGCCCCGAGGCGCACGCGCACCCGACCCGTCCTCCCGCCGCCCTCCGGGACT
 GGGTGCAGCGGTAGGGAAGGCCGGGGCCAGGAGTACTTCCACCCGGCGGGGCGAGCCCG
 GCCGCTGCTACCAGGCCGCCCCCTCCTCCTCCGATCCTCCGCTCCGCCGCCACCT
 CCCCCCTGCGGGGGATTGCCTGTACGGGGAGCCCGCAAGTTTTACGATACGATAAC
 TTACAGAGACAGCCGATTTTTACGACCCAGCAAGAGGCCGAGCTGGTACAATATCCTGAC
 TGTAATCGTCCAGTGGTAATATTGGCGAGGACCCAGACCACTTAAATCAGAGCTCGTCT
 CCTTCTCAAAATGTTTCCGTGGATGAGACCACAAGCTCCTGGTAGACGAAGAGGAAGACAA
 ACCTACAGTCGCTTCAAACCTCTAGAGTTGAAAAAGGAATTTCTTTTAAACCCTATCTG
 ACCAGAAAAAGAAATCGAGGTTTCCACGCCCTAGCCCTCACCAGAGACAGGTAAAA
 ATCTGGTTCAGAACAGGAGAATGAAATGAAAAAGGAAAAACAACAAGGACAAATTTCCC
 GTTCCCGGCAGGAGGTGAAGGACGGGGAAACGAAAAAGGAAGCCCAAGAGCTGGAGGAA
 GACAGAGCCGAAGCCTGACAAATTAACCTTCTACCTTTAAAATTTACCACAGACTATTAA
 AACTAATAATCACCATATGCTGTGGACACCACCTATTTTCTTTGTTGAAAGGACCTTAC
 CTGTGTTTCAAGTACCTTCATGTCACTGCTCTTGGGTTTTCTGTGCTTTGAGAGGGAT
 TTGGGTGTTTAAAAAGTTTCTAGTATCACATAGAAGCTGCCTTGGAGCTGCCTATGGA
 AGGGAATTTGATACTGACCTTGTAGCTATATTTTATAATGGTTTTTAAATGCTGAGCT
 AGTGATTTGCCTCAACAACGTAACTTCTAATGATTAGCACTTAATAATTGCATATAAA
 ATGCTTTATTAATTAACAAGTGCCTTGAACATTTTAAATTTTGTGGTGAATAATTA
 AAGGAGTTTATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_019558

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_019558.2](#), [NP_062458.1](#)

RefSeq Size: 1879 bp

RefSeq ORF: 873 bp

Locus ID: 3234

UniProt ID: [P13378](#)

Cytogenetics: 2q31.1

Domains: homeobox

Protein Families: ES Cell Differentiation/IPS, Transcription Factors

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. In addition to effects during embryogenesis, this particular gene may also play a role in adult urogenital tract function. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Dec 2010]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.