

Product datasheet for SC327835

HOXA10 (NM_018951) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | HOXA10 (NM_018951) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | HOXA10 |
| Synonyms: | HOX1; HOX1.8; HOX1H; PL |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >SC327835 representing NM_018951. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
 ATGTCAGCCAGAAAGGGCTATCTGCTCCCTTCGCCAAATTATCCACAACAATGTCATGCTCGGAGAGC
 CCCGCCGCAACTCTTTTGGTCGACTCGCTCATCAGCTCGGGCAGAGGCGAGGCAGGCGGGTGGT
 GGTGGCGCGGGGGCGGGCGGGTGGCGGTACTACGCCACGGCGGGTCTACCTGCCGCCGCCGCC
 GACCTGCCCTACGGGCTCAGAGCTGCGGGCTCTCCCCACGCTGGGCGGCAAGCGCAATGAGGCAGCG
 TCGCCGGGCGAGCGGTGGCGGTGGCGGGGTCTAGGTCCCGGGGCGCACGGCTACGGGCCCTCGCCATA
 GACCTGTGGCTAGACGCGCCCCGGTCTTGCCGGATGGAGCCGCTGACGGGCCGCCGCCGCCCCAG
 CAGCAGCCGCCGCCGCCGCCGAACACCCAGCCAGCGCCGAGGCCACCTCGTGCTCTTTCGCGCAG
 AACATCAAAGAAGAGAGCTCCTACTGCCTCTACGACTCGGCGGACAAATGCCCAAAGTCTCGGCCACC
 GCCGCCGAAGTGGCTCCCTTCCCGCGGGGCCGCCGCCGACGGCTGCGCCCTGGGCACCTCCAGCGGG
 GTGCCAGTGCCTGGCTACTTCCGCCTTCTCAGGCCTACGGCACCGCCAAGGGCTATGGCAGCGCGGC
 GGCGGCGCGCAGCAACTCGGGGCTGGCCGTTCCCGCGCAGCCCCGGGGCGCGGTTTCGATCTCCCG
 CCCGCGTAGCCTCCGGCTCGGCCGATGCGGCCGGAAGGAGCGAGCCCTCGATTGCGCGCCGCCCC
 ACGCTGGCTTGGCGCAGCGCGGGGCTCGCAGGGCGACGAGGAGGCGCACGCGTCTCTCGGCCGCG
 GAGGAGCTCTCCCGGCCCTTCCGAGAGCAGCAAGCCTCGCCGAGAAGGATTCCCTGGCAATTCC
 AAAGGTGAAAACGACGCAACTGGCTCACGGCAAAGAGTGGTCGGAAGAAGCGCTGCCCTACACGAAG
 CACCAGACACTGGAGCTGGAGAAGGAGTTTCTGTTCAATATGTACCTTACTCGAGAGCGGCGCTAGAG
 ATTAGCCGAGCGTCCACCTCACGGACAGACAAGTGAATCTGGTTTCAGAACCAGGATGAACTG
 AAGAAATGAATCGAGAAAACCGGATCCGGGAGCTCACAGCCAACCTTAATTTTCC**TGA**
 AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
 ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII


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|-------------------------------|---|
| ACCN: | NM_018951 |
| Insert Size: | 1233 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: | <ol style="list-style-type: none"> 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: | <u>NM_018951.3</u> |
| RefSeq Size: | 2648 bp |
| RefSeq ORF: | 1233 bp |
| Locus ID: | 3206 |
| UniProt ID: | <u>P31260</u> |
| Cytogenetics: | 7p15.2 |
| Protein Families: | Transcription Factors |
| MW: | 42.4 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 that may regulate gene expression, morphogenesis, and differentiation. More specifically, it may function in fertility, embryo viability, and regulation of hematopoietic lineage commitment. Alternatively spliced transcript variants have been described. Read-through transcription also exists between this gene and the downstream homeobox A9 (HOXA9) gene. [provided by RefSeq, Mar 2011]

Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein. Sequence Note: An upstream start codon is selected for this RefSeq based on conservation in at least 24 vertebrate species including mouse, rat, human, chimp, macaque, dog, cow, chicken, lizard, *Xenopus tropicalis*, *Tetraodon* and *Fugu*. Historically, a start codon that is 17 aa downstream has been used as the translation AUG start codon. No experimental evidence exists regarding which site is preferentially used.