

Product datasheet for **RG229200**

HOXA10 (NM_018951) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HOXA10 (NM_018951) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HOXA10
Synonyms: HOX1; HOX1.8; HOX1H; PL
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229200 representing NM_018951
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGCCAGAAAGGGCTATCTGCTCCCTTCGCCAAATTATCCACAACAATGTCATGCTCGGAGAGCC
CCGCCCGAACTTTTTTGGTCGACTCGCTCATCAGCTCGGGCAGAGGGCAGGCAGGCGGGTGGTGG
TGGCGCGGGGGCGGGCGGTGGCGTTACTACGCCACGGCGGGTCTACCTGCCGCCGCCCGCCGAC
CTGCCCTACGGGCTGCAGAGCTGCGGGCTTCCCCACGCTGGGCGCAAGCGCAATGAGGCAGCGTCGC
CGGCAGCGGTGGCGGTGGCGGGTCTAGGTCCCGGGCGCACGGCTACGGCCCTCGCCATAGACCT
GTGGCTAGACGCGCCCGGTCTTCCCGGATGGAGCCGCTGACGGGCCGCGCCGCCGCCAGCAGCAG
CCGCCGCCCGCCGCAACCACCCAGCCAGCGCCGCGAGGCCACCTCGTGCTTTTCGCGCAGAATCA
AAGAAGAGAGCTCCTACTGCCTCTACGACTCGGCGGACAAATGCCCAAAGTCTCGGCCACCGCCCGCA
ACTGGCTCCCTTCCCGCGGGGCCCGCCGCCGACGGCTGCGCCCTGGGCACCTCCAGCGGGGTGCCAGTG
CCTGGCTACTTCCGCTTTCTCAGGCCTACGGCACCGCAAGGGCTATGGCAGCGGGCGGGCGGGCGCG
AGCAACTCGGGGCTGGCCGTTCCCGCGCAGCCCCGGGGCGCGGTTTCGATCTCCCGCCCGCTAGC
CTCCGGCTCGGCCGATGCGGCCCGGAAGGAGCGAGCCCTCGATTCCCGCCGCCCGCCACGCTGGCTTG
GGCAGCGGGGGGCTCGCAGGGCGCAGGAGGCGCACGGCTCGTCTCGGCCGCGGAGGAGCTCTCC
CGGCCCTTCCGAGAGCAGCAAAGCCTCGCCGGAGAAGGATTCCCTGGCAATTCCAAAGGTGAAAACGC
AGCCAAGTGGCTCACGGCAAAGAGTGGTCGGAAGAAGCGCTGCCCTACACGAAGCACCAGACTGGAG
CTGGAGAAGGAGTTTCTGTTCAATATGTACCTTACTCGAGAGCGGCGCTAGAGATTAGCCGACGCTCC
ACCTCACGGACAGACAAGTGAATCTGGTTTCAGAACCAGGATGAACTGAAGAAAATGAATCGAGA
AAACCGGATCCGGGAGCTCACAGCCAACTTAATTTTTCC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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ORF Size:	1230 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:	<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:	NM_018951.4
RefSeq Size:	2648 bp
RefSeq ORF:	1233 bp
Locus ID:	3206
UniProt ID:	P31260
Cytogenetics:	7p15.2
Protein Families:	Transcription Factors
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]