

## Product datasheet for **MG223043**

### Hoxa10 (NM\_001122950) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hoxa10 (NM\_001122950) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Hoxa10  
**Synonyms:** Hox-1.8; Hoxa-10  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG223043 representing NM\_001122950  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTCAAGGCAGTTCCAAAGGCGAAAATGCAGCCAACCTGGCTCACAGCAAAGAGCGGCCGGAAGAAAC  
GCTGCCCTTACACGAAGCACCAGACGCTGGAGCTGGAGAAGGAGTTTCTATTCAACATGTACCTTACTCG  
AGAGCGGCGCCTAGAGATCAGCCGTAGCGTCCACCTCACGGACAGACAAGTAAAATCTGGTTTCAGAAT  
CGCAGGATGAAACTGAAGAAAATGAACCGAGAAAACCGAATCCGGGAGCTCACAGCCAACCTTAATTTTT  
CC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG223043 representing NM\_001122950  
Red=Cloning site Green=Tags(s)  
MSQGSSKGENAANWLTAKSGRKKRCPYTKHQTLLELEKEFLFNMYLTRERRLEISRSVHLTDRQVKIWFQN  
RRMKLKKMNRENRIRELTANFNFS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001122950.2</a></u> , <u><a href="#">NP_001116422.1</a></u>
<b>RefSeq Size:</b>	2177 bp
<b>RefSeq ORF:</b>	285 bp
<b>Locus ID:</b>	15395
<b>UniProt ID:</b>	<u><a href="#">P31310</a></u>
<b>Cytogenetics:</b>	6 25.4 cM
<b>Gene Summary:</b>	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 a cluster on chromosome 6 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 encoding different isoforms have been described. [provided by RefSeq, Jul 2008]