

## Product datasheet for **MR225355**

### **Hoxa13 (NM\_008264) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Hoxa13 (NM_008264) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hoxa13
Synonyms:	Hd; Hox-1.10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR225355 representing NM\_008264, **codon optimized**.  
**Due to the complexity of NM\_008264, the ORF clone is codon optimized for mammalian Expression.**  
**The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.**

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGGATCGCC**

ATGACTGCAAGTGTACTCCTCCATCCCAGATGGATTGAACCAACCGTGATGTTTCTTTATGATAATGGGGGTGGGCTGGTCCGACGAGTTGAATAAAAATATGGAAGGAGCAGCTGCAGCAGCTGCTGCTGCAGCTGCGGGCTGCAGCTGGGGCTGGAGGAGCGGTTTTCTCACCTGCTGCTGCTGCAGCCGGCGGTAATTTTGTGTTGCAGCCGAGCTGCAGCTGCGGCTGCTGCAGCTGCAAACCAAGTGTGCAACCTGATGGCCACC

CCGCTCCACTGGCACCAGGAGCTGCTGCAGCTTACAGCTCTGCACCAGGTGAGGCCACCACCGAGTGTGCAAGCTGCAGCAGCTGCGGCAGCCGAGCTGCCGCTGCTGCCGCTGCAGCCAGCTCTTCAGGTGGACCTGGA

CCTGCTGGCCAGCTGGAGCCGAAGCGGCCAAACAATGTAGCCATGCAGTGTGCTGCTCAGAGCAGCTCTGGTCTGCAGCTTTGCCGTACGGTACTTTGGCAGCGGCTATTACCCCTGCGCTCGGATGGGTCTCA

CCCTAACGCAATCAAGTCTTGCGCCAGCCAGCCAGCGCCGAGCCGCTTCGCTGACAAGTATATGGATACAGCAGGACCTGCCGAGAGGAGTTTTCATCAAGGGCTAAAGAGTTCGCCTTTTATCACCAGGGATACG

GTGCAGGACCATATCACCACCATCAGCCTGTCCCAGGCTATCTTGATATGCCTGTGCTCCAGGACTGGGGGGCCCGGCGAGTCTAGACATGAACCTCTTGGACTGCCAATGGAATCCTACCAACCGTGGGCACCTCCT

AATGGGTGGAATGGACAGATGTATTGTCCTAAAGAGCAGACACAGCCTCCACATCTGTGGAAGAGTACCC

TCCTGACGTTGTCTCTATCCTAGTGACGCTCCTCCTATCGGCGAGGCAGGAAGAAAAGGGTGCCTTACAAAAAGTTTCAAGAGCTGAAAGAGCTGAAAGAGAGTACGCCACAAATAAGTTATTACAAAAAGATAAGCGC

CGGAGAATCTCAGCTACTACTAACCTTTCTGAGAGGCAGGTGACAATTTGGTTTCAGAACAGGCGAGTCA

AAGAGAAAAAGGTGATCAACAAGCTGAAAACACGTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225355 representing NM\_008264  
 Red=Cloning site Green=Tags(s)

MTASVLLHPRWIEPTVMFLYDNGGGLVADELNKNMEGAAAAAAAAAAAAAAAAAGAGGGGFPHPAAAAAGGNF

SVAAAAAAAAAAAAANQCRNLMAHPAPLAPGAAAAAYSSAPGEAPPSAAAAAAAAAAAAAAAASSSGGPG

PAGPAGAEAAKQCSPCSAAQSSGPAALPYGYFGSGYYPARMGPHPNAIKSCAQPASAAAFADKYMD

TAGPAAEEFSSRAKEFAFYHQGYAAGPYHHHQVPVGYLDMPVVPGLGGPGESRHEPLGLPMESYQPWALP

NGWNGQMYCPKEQTQPPHLWKSTLPDVVSHPSDASSYRRGRKRVPYTKVQLKELEREYATNKFITDKR

RRISATTNLSERQVTIWFQNRVKEKKVINKLKTTS

**TR**TRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_008264

**ORF Size:** 1158 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:**
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\\_008264.1, NP\\_032290.1](#)

RefSeq Size: 1318 bp

RefSeq ORF: 1161 bp

Locus ID: 15398

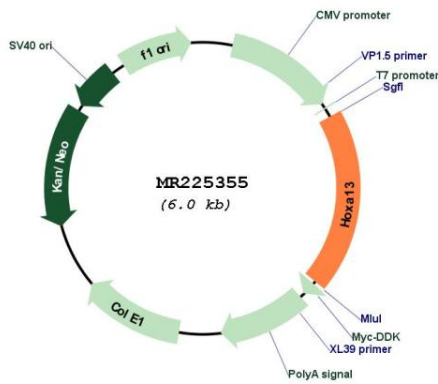
UniProt ID: [Q62424](#)

Cytogenetics: 6 25.41 cM

MW: 39.6 kDa

**Gene Summary:** Sequence-specific, AT-rich binding transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR225355