

## Product datasheet for **MC206464**

### Meox2 (BC002076) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Meox2 (BC002076) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Meox2
Synonyms:	Gax, Mox2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC002076  
GGAGACTGGCCGCTAAGGCTCAGGACTGGGATTAGTCGGCTCTGCTCAAATGCAAACGCGCGCGGCTTTT  
ACTTTTGGAGTGAGTGGGGGAAAGTCTTAGGATTTCCAGTGAAAAGTGACAGCGCTTGGTGGACATTCGG  
ACCGTCCGTGAAGTCTTCTGCTTGAAGCCGAACTTGCATGCCATGGAACACCCCTCTTTGGTGCCT  
GCGCAGCCCCACGCCACAGCGCAAGGCTTGACCCCTTCTCCAGTCTTCTGCCCCTCCATGGAAGA  
TCTGACCACATGTCTACCCCGAACTCTCCACATCTTCTCGTCTGCATAATCGCGGGATACCCCAACG  
AGGAGGGCATGTTTGGCCAGCCAGCATCACAGGGGGCACCACCACCACCACCACCACCACCACCACCA  
CCAGCAGCAGCAGCACCAGGCTCTGCAAAGCAACTGGCACCTCCCGCAGATGTCCTCTCCGCCAAGCGCG  
GCCCGGCACAGCCTGTGCCTGCAGCCTGATTCCGGAGGGCCCCGGAGCTGGGAAGCAGCCCTCCGGTCC  
TGTGTTCCAACCTCATCTAGCCTGGGCTCCAGCACCCCTACCGGGGCCGCTGCGCACCAGGGGATTATGG  
CCGTCAAGCGCTGTACCCCGCAGACGTAGAGAAGAGAAGTGGCAGCAAAAGGAAAAGCGACAGCTCAGAT  
TCCCAGGAAGGAACTACAAGTCAGAAGTGAACAGCAAACCTAGGAAGGAAAAGAACAGCTTTTACCAAAG  
AGCAAATCAGAGAACTAGAGGCAGAATTTGCCATCATAATTATCTGACCAGACTGAGAAGATATGAGAT  
AGCAGTGAATCTAGACCTCACTGAAAGACAGGTGAAAGTGTGGTCCAGAACAGGAGAATGAAGTGAAG  
CGGGTCAAAGGGGACAGCAAGGAGCTGTGCCGAGAAAAGGAACTGGTGAATGTGAAAAGGGAACGC  
TTCTTCCGTGAGACTGTGAGGAATCGGTGCAGCCACCCTCCAGCAGACAGGGGACTCACTAGCAAACGA  
CGACAGCCCGATAGTGACCACAGCTCTGAGCACGCACACTTATGATACCTACAAAGACCAGCTCCATTC  
TCAGGAAAGCACCATTGTGATGGCAAACCTTACCGAACATCGTTTACATGGCAGATGTCTGTGGCAGTGT  
GGCTTAGTATAATTAATGCAGGCATCTCGAGTCTGTGTCTCATGATGGATAGACGGTTTACACTAAGTG  
CCTTTTATTGAAGATGCTTCCACAGTGAATGGAGAAAGCGAACGTATTCCAAATACACTTGTTCCTAT  
ATATGACAGAGAGGGAGATGGATGTTTGGCTTGGCTTGCAGTGAAGATGTTAAAAATAAAAAATGCTTTGAACAT  
CTTGATAAGACGTTTTTACTCAAGATGTCTCCAGAGTGAAGATGTTAAAAATAAAAAATGCTTTGAACAT  
TCCAGTTGTGCCAGGTCATGTGTGACACTGGGCAGGATTTTGGCTTGGCTTGCAGTGAAGATGCTTTAACT  
GCTATCAAGTTAATCCATGAAATAGTTTTATCTTGAACAGCCACAGTGCCTGAAATACCAAGTGGATATA  
AAATGTAAGTAACTGTATATATTACCCCTAAGTCATTTTTCTGTCTTCACTAATTTTAGCAAATGCAT  
TCATATTAGCTGATTAATAATAGGCTTTTCCATTGACAAACACAGCCAGCTTCTTGTATTTTATACATT  
TGTGTGACAGAGAAAAATCAGTATGTGCTTACTTGTGTTCAAGTAGATAAAATGCAGTAGAGTCTGATA  
GGACATATCCTTGTACCACAGACAAAACAAATCTTCTGTTGCATTGACTATCAACTGCTGCAGATACATT  
AGAGAACATACCTAGCTCCCTCCAGCCTTCTTCTTATATCTTGAAGACATTAGGATCATAGGCAAA  
TCAGTTACCTTGACAACGAGTCTTGTGCGGCAAATGTCTGATTTTACATCTTTAAGTTGTTAATGTTTA  
TGGGTCTGATTCAATTAACAGGGAAAAGCTTTCTTCTCCTTGTATGATATAAAACCAAGTGCCAAAC  
AAAGCTAATCTTCAAGAGAATAGTTGAGAAACTGAATGTCTGACAATTAGACTCTGAAAGTGCATTATT  
TTTCATATGCTCTATATTCATGCAGAACAAGTCTTGTATTTGTAAAAAAAAAAAAA

**Restriction Sites:** EcoRI-NotI

**ACCN:** BC002076

**Insert Size:** 912 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).

**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:** [BC002076](#), [AAH02076](#)

**RefSeq Size:** 2229 bp

**RefSeq ORF:** 912 bp

**Locus ID:** 17286

**Cytogenetics:** 12 16.84 cM

**Gene Summary:** Mesodermal transcription factor that plays a key role in somitogenesis and is required for sclerotome development. Activates expression of CDKN1A and CDKN2A in endothelial cells, acting as a regulator of vascular cell proliferation. While it activates CDKN1A in a DNA-dependent manner, it activates CDKN2A in a DNA-independent manner. May have a regulatory role when quiescent vascular smooth muscle cells reenter the cell cycle. [UniProtKB/Swiss-Prot Function]