

Product datasheet for **MC200980**

Meox1 (NM_010791) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Meox1 (NM_010791) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Meox1
Synonyms:	AI385561; D330041M02Rik; Mox-1; Mox1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC011082 sequence for NM_010791
 CACTCATTCACTCAGGGTCCCCGGGAAGGGCTTGTCAAGTATGGGTGGGTCCAAGGTAGGACAGTCAAAAT
 GTTCAGCATGGTAGGAAACAACCTCCGTGCCGATAGTCAGCGTGTGTCGGGGCAGGAAGGCAGACGTGA
 AGCCTAGACAGGTGTGGACACGCACATGTGTCTCTGGCCACGTGTTTGTGGAATTTGAGGCAAAATTT
 TTGTTTTGGTTCCTGGGGTAAAGTTTCCATTCAACATTTTCTCTACTGTTAATTTTTTTTTTAAATTTT
 AAATTACAAAACCTCTGACTAGAAAAAGCCAATACCTTTGAAAGGACTGGGGCAGGCAGTGGACAGCAGA
 TGGATCCAGTGGCCAACAGCTGTGTGAGGAACCCAGCCAGCCCTGTCTGGGGCTGCCTTCGAAA
 CCCCCACTCAGAAGATAGCAGCGCTCAGGGCTGCCATTATCCCCAACCCCGTTTTCTTCCACCAA
 AAATCAGACTTCCAGCGACAGCAGCATACCCGACTTCTCTGCTTCTGCCTGGCAGCCACCCACACA
 GCCTGCCCGGACTGAGCGAATCTTCAACGAGCAGCATCCTGCCTTCCACAGACCCCTGACTGGCACTT
 CCCTATCTCAGAAGCCGGGCAGAGGCTCAACCTAGGCCAGCTGGGAGGCCAGGGAGATGGGAGCCGGC
 AGCCCCGGCTGGTGGATGGCACAGCAGGATTGGGGGAGGATTGCATGGTACTTGGGACGATCGCCAATG
 AGACGGAGAAGAAATCATCCAGAAGGAAAAAGAGAGGTGAGACAACCAGGAGAACGGAGGGAGAAAGCC
 AGAAGGCAGCAGAAAGCCGGAAGGAGAGGACAGCCTTACCAAGGAGCAGCTACGGGAGCTGGAGGCA
 GAGTTTGGCCACCACAACCTACCTGACCCGGCTCCGGAGATATGAGATTGCAGTCAACCTGGACCTTCTG
 AGCGGCAGGTCAAAGTCTGGTTCAGAACCAGGAGATGAAGTGGAAACGTGTGAAGGGGGTTCAGCCTGT
 GTCCCCACAGGAGCAGGACCCGAGAGGATGGGGACTCTGCAGCTTCTCAAAGTTCAGAGTGAGATGCTCCA
 AAGACAAAACCAAGAAAGACTGAAGGAACCCCTCTCCAGTTCCACCACCCGGTCCCACCTCTCACA
 TCTCTGGACCCACCCAGGGCAGCCTGCACACACTTAAGGTGTGAAGTTGCCAGTATGTGGGAGCCTTG
 AATTTCCAGAAGGCTTAGCTCAGCGTCTTACATCTCAGCAGCCCTTCCCCAGGCCTTCAACTCCCA
 CTCTCTTGAACCTCAAAGGACTGGGAACTATAGAAACAGAGCCTGGGGCCCTTTTTCTGGGTCTCT
 TGGCTACTACCCACACTAGCATCCCCCTTACATCAGGGTCTCCTCTGGGTCTGGCCCATCTGGCCT
 ATGCAGAATCCATTCTTGGTACCAGTGGTACTTGTAAAAGCAAACCTCTCTCCAGATGTTACACCG
 TTGAGTTGAAGGTTAGGAAGTGGTCTGTGTCTAAGGACGGAGAGGATAGCACAAAGAGCTGATGGATGA
 GGACTGAGATACGTGGACCTTGAAGTAGAACGTTCTCAGGCTGCAGCGTCTGTGTTCTCAAGGACTC
 TGACTGCAGATAAGGACAGGAAAACAACCCATCTTCTCCATGGGATGCATTTGGACCTATCCTGCCTGT
 TCCGGAAGAAAGCTTTGTGGGAAGACCTCCAGGTTACACACATGCGCAGCTCAGATCTCAGACCCAACT
 TCTGAGGATGCTCCTGTGAGGACTGGTGGGAAAACAGCCTCAGGCAACAGTCTCCTTGAAGAGACCCCT
 GTGTGCCTCAGTATTAGATGGTGGATCTCCAGATCCTGCTGATGTTGCAGAAGGAGGGTCAGCAAGTAT
 TTGAATTTCTTGCATGGAGATCTGATTGTGAGTGTAAAAATAACCCAGTTCCTTCCCACCCATC
 AAGACAGAAGCTGTGAAAATGATTGTCAAATGAGATGGCAAGTTAGAGCATGTATCAGTTTTCCCCTAC
 AGCATATTTTCATATGTTTTTTTTTCTAAGATTACATCAAGCTAATTGTGCAAGGTCAATCACTTTGTA
 AGAAAACCTCTCAGAGAAATAAATCAACAAAAAATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_010791

Insert Size: 762 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: [BC011082](#), [AAH11082](#)

RefSeq Size: 2235 bp

RefSeq ORF: 762 bp

Locus ID: 17285

UniProt ID: [P32442](#)

Cytogenetics: 11 65.48 cM

Gene Summary: Mesodermal transcription factor that plays a key role in somitogenesis and is specifically required for sclerotome development. Required for maintenance of the sclerotome polarity and formation of the cranio-cervical joints (PubMed:19520072). Binds specifically to the promoter of target genes and regulates their expression. Activates expression of NKX3-2 in the sclerotome (PubMed:15024065). 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 (PubMed:22206000). Required for hematopoietic stem cell (HSCs) induction via its role in somitogenesis: specification of HSCs occurs via the deployment of a specific endothelial precursor population, which arises within a sub-compartment of the somite named endotome (By similarity).[UniProtKB/Swiss-Prot Function]