

Product datasheet for MR203243

Meox1 (NM_010791) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Meox1 (NM_010791) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Meox1

Synonyms: Al385561; D330041M02Rik; Mox-1; Mox1

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR203243 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Protein Sequence: >MR203243 protein sequence

Red=Cloning site Green=Tags(s)

MDPVANSCVRNPQPPAPVWGCLRNPHSEDSSASGLSHYPPTPFSFHQKSDFPATAAYPDFSASCLAATPH SLPRTERIFNEQHPAFPQTPDWHFPISEAGQRLNLGPAGSAREMGAGSPGLVDGTAGLGEDCMVLGTIAN ETEKKSSRRKKERSDNQENGGGKPEGSSKARKERTAFTKEQLRELEAEFAHHNYLTRLRRYEIAVNLDLS ERQVKVWFQNRRMKWKRVKGGQPVSPQEQDREDGDSAASPSSE

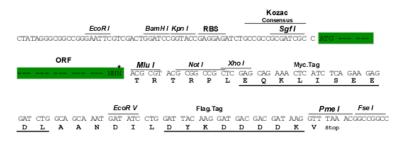
TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_010791

ORF Size: 762 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:

- 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.

endotome (By similarity).[UniProtKB/Swiss-Prot Function]

- 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: <u>NM 010791.3</u>, <u>NP 034921.1</u>

 RefSeq Size:
 2235 bp

 RefSeq ORF:
 762 bp

 Locus ID:
 17285

 UniProt ID:
 P32442

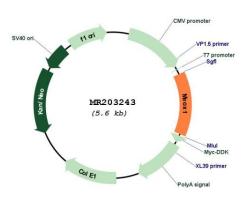
Cytogenetics: 11 65.48 cM

MW: 28 kDa

Gene Summary: Mesodermal

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

Product images:



Circular map for MR203243