

Product datasheet for **MR204241**

Meox2 (NM_008584) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Meox2 (NM_008584) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Meox2
Synonyms: A1528662; Gax; Mox-2; Mox2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR204241 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAACACCCCTCTTTGGCTGCCTGCGCAGCCCCACGCCACAGCGCAAGGCTTGACCCCTTCTCCC
 AGTCTTCTCTGGCCCTCCATGGAAGATCTGACCACATGTCCTACCCGAACTCTCCACATCTTCTCGTC
 TTGCATAATCGCGGGATACCCCAACGAGGAGGGCATGTTTCCAGCCAGCATCACAGGGGGCACCACCAC
 CACCACCACCATCACCATCACCACCACCAGCAGCAGCAGCACCAGGCTCTGCAAAGCAACTGGCACCTCC
 CGCAGATGTCCTCTCCGCAAGCGGGCCCGGCACAGCCTGTGCCTGCAGCCTGATTCGGGAGGGCCCCC
 GGAGCTGGGAAGCAGCCCTCCGGTCTGTGTTCCAACATCTAGCCTGGGCTCCAGCACCCCTACCGGG
 GCCCGTGCACAGGGGATTATGGCCGTCAAGCGTGTCAACCCGACAGCTAGAGAAGAGAAGTGGCA
 GCAAAAGGAAAAGCGACAGCTCAGATTCACAGGAAGGAACTACAAGTCAGAAGTGAACAGCAAACCTAG
 GAAGGAAAGAACAGCTTTTACCAAAGAGCAAATCAGAGAAGTACAGGAGGAGGAGGAGGAGGAGGAGG
 CTGACCAGACTGAGAAGATGAGATAGCAGTGAATCTAGACCTCACTGAAAGACAGGTGAAAGTGTGGT
 TCCAGAACAGGAGAATGAAGTGAAGCGGGTCAAAGGGGGACAGCAAGGAGCTGCTGCCGAGAAAAGGA
 ACTGGTGAATGTGAAAAGGGAACGCTTCTTCCGTCAGAGCTGTGAGGAATCGGTGCAGCCACCCCTCCAG
 CAGACAGGGGACTCACTAGCAAACGACGACAGCCGCGATAGTGACCACAGCTCTGAGCACGCACACTTA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204241 protein sequence
Red=Cloning site Green=Tags(s)

```
MEHPLFGCLRSPHATAQGLHPFSQSSLALHGRSDHMSYPELSTSSSSCIAGYPNEEGMFASQHHRGHHH
HHHHHHHHHQQQHQALQSNWHLPMSSPPSAARHSLCLQPDSSGGPELGSSPPVLCNSSSLGSSTPTG
AACAPGDYGRQALSPADVEKRSKRSKSDSDSQEGNYKSEVNSKPRKERTAFATKEQIRELEAEFAHHNY
LTRLRREYEAIVNLDLTERQYKVFQNRMRKWKRVKGGQQGAAAREKELVNVKKGTLPLSELGIGAATLQ
QTGDSLANDDSRSDHSSEHAHL
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008584

ORF Size: 912 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.
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_008584.1](#), [NM_008584.2](#), [NM_008584.3](#), [NP_032610.1](#)

RefSeq Size: 2348 bp

RefSeq ORF: 912 bp

Locus ID: 17286

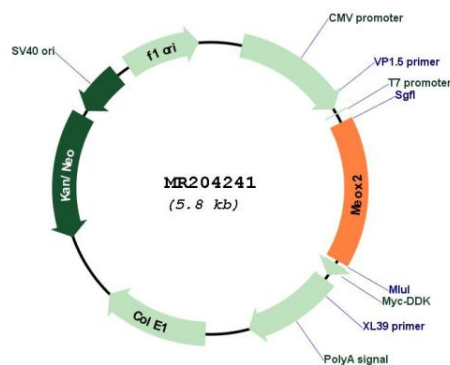
UniProt ID: [P32443](#)

Cytogenetics: 12 16.84 cM

MW: 33.5 kDa

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]

Product images:



Circular map for MR204241