

## Product datasheet for **MG204241**

### Meox2 (NM\_008584) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Meox2 (NM\_008584) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Meox2  
**Synonyms:** A1528662; Gax; Mox-2; Mox2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204241 representing NM\_008584  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAACACCCCCTCTTTGGCTGCCTGCGCAGCCCCACGCCACAGCGCAAGGCTTGACCCCTTCTCCC  
 AGTCTTCTCTGGCCCTCCATGGAAGATCTGACCACATGTCCTACCCCGAACTCTCCACATCTTCTCGTC  
 TTGCATAATCGCGGGATACCCCAACGAGGAGGGCATGTTTGCAGCCAGCATCACAGGGGGCACCACCAC  
 CACCACCACCATCACCATCACCACCACCAGCAGCAGCAGCAGCAGGCTCTGCAAAGCAACTGGCACCTCC  
 CGCAGATGTCCTCTCCGCAAGCGGGCCCGGCACAGCCTGTGCCTGCAGCCTGATTCGGGAGGGCCCCC  
 GGAGCTGGGAAGCAGCCCTCCGGTCTGTGTTCCAACATCTAGCCTGGGCTCCAGCACCCCTACCGGG  
 GCCCGCTGCGCACCAGGGGATTATGGCCGTCAAGCGCTGTCAACCGCAGACGTAGAGAAGAGAAGTGGCA  
 GCAAAAGGAAAAGCGACAGCTCAGATTCACAGGAAGGAACTACAAGTCAGAAGTGAACAGCAAACCTAG  
 GAAGGAAAGAACAGCTTTTACCAAAGAGCAAATCAGAGAAGTACAGGAGGAGGAGGAGGAGGAGGAGGAGG  
 CTGACCAGACTGAGAAGATGAGATAGCAGTGAATCTAGACCTCACTGAAAGACAGGTGAAAGTGTGGT  
 TCCAGAACAGGAGAATGAAGTGAAGCGGGTCAAAGGGGGACAGCAAGGAGCTGCTGCCCGAGAAAAGGA  
 ACTGGTGAATGTGAAAAGGGAACGCTTCTTCCGTCAGAGCTGTGAGGAATCGGTGCAGCCACCCCTCCAG  
 CAGACAGGGGACTCACTAGCAAACGACGACAGCCGCGATAGTGACCACAGCTCTGAGCACGCACACTTA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204241 representing NM\_008584  
 Red=Cloning site Green=Tags(s)

MEHPLFGCLRSPHATAQGLHPFSQSSLALHGRSDHMSYPELSTSSSSCIAGYPNEEGMFASQHRGHGH  
 HHHHHHHHHQQQHQALQSNWHLPMSSPPSAARHSLCLQPDSSGGPELGSSPPVLCNSSSLGSSPTG  
 AACAPGDYGRQALSPADVEKRSGSKRKSDDSSDSEGNYSKSEVNSKPRKERTAFATKEQIRELEAEFAHNY  
 LTRLRRYEIAVNLDLTERQYKVFQNRMMKWKRVKGGQQGAAAREKELVNVKKGTLPLSELGIGAAATLQ  
 QTGDSLANDDSRSDHSSEHAHL

TRTRPLE - GFP Tag - V

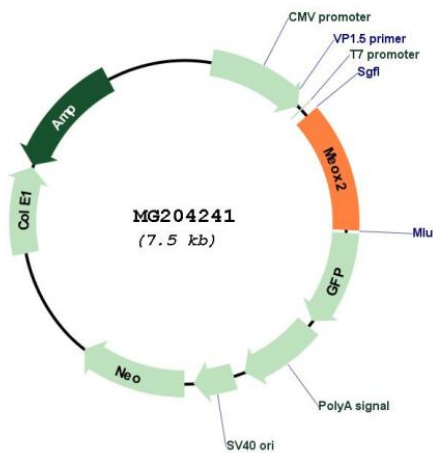
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_008584

**ORF Size:** 909 bp

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>                                                                |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                              |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_008584.1</a> , <a href="#">NP_032610.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 2349 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>RefSeq ORF:</b>            | 912 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Locus ID:</b>              | 17286                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID:</b>            | <a href="#">P32443</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cytogenetics:</b>          | 12 16.84 cM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Gene Summary:</b>          | 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]                                     |