

## Product datasheet for **MC207302**

### Hmox2 (NM\_010443) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hmox2 (NM\_010443) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Hmox2  
**Synonyms:** HO-2; HO2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC207302 representing NM\_010443  
**Red=Cloning site Blue=ORF**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTCAGAGGTGGAGACCTCGGAGGGGTAGATGAGTCAGAGAAGAAGTCTATGGCACCAGAAAAGG  
AAAACCATAACAAAATGGCAGACCTTTCTGAGCTCCTGAAGGAAGGGACCAAGGAAGCACATGACCGAGC  
AGAAAATACCCAGTTTGTCAAAGACTTCTGAAAGGAAACATTAAGAAGGAGCTATTTAAGCTGGCCACC  
ACTGCACCTTACTTCACATACTCAGCCCTTGAGGAGGAAATGGACCGCAACAAGGACCACCCAGCCTTCG  
CCCCCTTATATTTCCCCACGGAGCTACACCGGAAGGCAGCACTGATCAAGGACATGAAGTATTTCTTTGG  
TGAAAATGAGGAGGAGCAGGTGAAGTGCTCTGAGGCTGCCCAGAAGTATGTGGATCGGATCACTATGTA  
GGGCAAAATGAGCCAGAGCTGCTGGTGGCCATGCTTATACTCGTTACATGGGGGACCTTTCAGGAGGCC  
AGGTAAGGAGGTTGCCAGAGGGCACTAAAACCTCCAGCACTGGGGAAGGGACCCAATTCTACCT  
GTTTGAGCATGTGGACAATGCCAGCAATTAAGCAGTTCTACCGCGCTAGAATGAATGCCTGGACCTG  
AATTTGAAGACCAAGAGAGGATTGTGGAGGAGGCAATAAAGCCTTTGAATATAACATGCAGATATTCA  
GTGAAGTGGACAGGCTGGCTCCATGCTAGCAAGAGAAACCCTGGAGGATGGGCTCCCGGTACATGATGG  
GAAGGGAGATACGTAATGCCCTTTTATGCTGCTCAGCCAGACAAAGGTACTAGGAGGCAGCAAC  
TGCCCCCTCCAGACAACCGTGGCTGTGCTGAGGAAGCCTAGCCTGCAGCTCATTCTGGCTGCCAGTGTGG  
CCTTGGTAGCTGGACTCTTGGCCTGGTACTACATGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_010443



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<b>Insert Size:</b>	948 bp
<b>OTI Disclaimer:</b>	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).
<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>	<u><a href="#">BC002011</a></u> , <u><a href="#">AAH02011</a></u>
<b>RefSeq Size:</b>	1226 bp
<b>RefSeq ORF:</b>	948 bp
<b>Locus ID:</b>	15369
<b>UniProt ID:</b>	<u><a href="#">O70252</a></u>
<b>Cytogenetics:</b>	16 2.46 cM
<b>Gene Summary:</b>	<p>Heme oxygenase cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently converted to bilirubin by biliverdin reductase. Under physiological conditions, the activity of heme oxygenase is highest in the spleen, where senescent erythrocytes are sequestered and destroyed. Heme oxygenase 2 could be implicated in the production of carbon monoxide in brain where it could act as a neurotransmitter.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to transcript variant 1. Both variants 1 and 2 encode the same protein.</p>