

## Product datasheet for **MC207301**

### Hmox1 (NM\_010442) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hmox1 (NM\_010442) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Hmox1  
**Synonyms:** D8Wsu38e; Hemox; Hmox; HO-1; HO1; Hsp32  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC207301 representing NM\_010442  
**Red=Cloning site Blue=ORF**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCGTCCACAGCCCGACAGCATGCCCCAGGATTTGTCTGAGGCCTTGAAGGAGGCCACCAAGGAGG  
TACACATCCAAGCCGAGAATGCTGAGTTCATGAAGAACTTTCAGAAGGGTCAGGTGTCCAGAGAAGGCTT  
TAAGCTGGTGATGGCTTCCTTGTACCATATCTACACGGCCCTGGAAGAGGAGATAGAGCGCAACAAGCAG  
AACCCAGTCTATGCCCACTCTACTTCCCTGAGGAGCTGCACCGAAGGGCTGCCCTGGAGCAGGACATGG  
CCTTCTGGTATGGCCTCACTGGCAGGAAATCATCCCTTGACCGCCAGCCACACAGCACTATGTAAGCG  
TCTCCACGAGGTGGGGCGCACTACCCTGAGCTGCTGGTGGCCACGCATATACCCGCTACCTGGGTGAC  
CTCTCAGGGGTGAGTCTGAAGAAGATTGCACAGAAGGCCATGGCCTTGCCCGACTCTGGGGAGGGCC  
TGGCTTTTTTACCTTCCCGAACATCGACAGCCCCACCAAGTTCAAACAGCTCTATCGTGCTCGAATGAA  
CACTCTGGAGATGACACCTGAGGTCAAGCACAGGGTGACAGAAGAGGCTAAGACCGCCTTCTGTCAAC  
ATTGAGCTGTTTGGAGAGCTGCAGGTGATGCTGACAGAGGAACACAAAGACCAGAGTCCCTCACAGATGG  
CGTCACTTCGTGAGAGCCTGCTAGCCTGGTGAAGATACTGCCCTGCAGAGACACCCCGAGGGAAACC  
CCAGATCAGCACTAGCTCATCCAGACACCGCTCCTCCAGTGGTCTCACTCTCAGTTCCTGTTGGCA  
ACAGTGGCAGTGGGAATTTATGCCATGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_010442  
**Insert Size:** 870 bp



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<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>	<a href="#">BC010757</a> , <a href="#">AAH10757</a>
<b>RefSeq Size:</b>	1556 bp
<b>RefSeq ORF:</b>	870 bp
<b>Locus ID:</b>	15368
<b>UniProt ID:</b>	<a href="#">P14901</a>
<b>Cytogenetics:</b>	8 C1
<b>Gene Summary:</b>	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 sequestrated and destroyed. Exhibits cytoprotective effects since excess of free heme sensitizes cells to undergo apoptosis.[UniProtKB/Swiss-Prot Function]