

Product datasheet for **MC208668**

Hmox2 (NM_001136066) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hmox2 (NM_001136066) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hmox2
Synonyms: HO-2; HO2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC208668 representing NM_001136066
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTTCAGAGGTGGAGACCTCGGAGGGGTAGATGAGTCAGAGAAGAAGTCTATGGCACCAGAAAAGG
 AAAACCATAACAAAATGGCAGACCTTTCTGAGCTCCTGAAGGAAGGGACCAAGGAAGCACATGACCGAGC
 AGAAAATACCCAGTTTGTCAAAGACTTCTGAAAGGAAACATTAAGAAGGAGCTATTTAAGCTGGCCACC
 ACTGCACCTTACTTCACATACTCAGCCCTTGAGGAGGAAATGGACCGCAACAAGGACCACCCAGCCTTCG
 CCCCCTTATATTTCCCCACGGAGCTACACCGGAAGGCAGCACTGATCAAGGACATGAAGTATTTCTTTGG
 TGAAAAGTGGGAGGAGCAGGTGAAGTGCTCTGAGGCTGCCCAGAAGTATGTGGATCGGATCACTATGTA
 GGGCAAAATGAGCCAGAGCTGCTGGTGGCCATGCTTATACTCGTTACATGGGGGACCTTTCAGGAGGCC
 AGGTAAGAAAGGTTGCCAGAGGGCACTAAAAGTCCAGCACTGGGAAGGGACCCAATTCTACCT
 GTTTGAGCATGTGGACAATGCCAGCAATCAAGCAGTTCTACCGCGCTAGAATGAATGCCTTGGACCTG
 AATTTGAAGACCAAGAGAGGATTGTGGAGGAGCCAATAAAGCCTTTGAATATAACATGCAGATATTCA
 GTGAAGTGGACCAAGGCTGGCTCCATGCTAGCAAGAGAAACCTGGAGGATGGGCTCCCGGTACATGATGG
 GAAGGGAGATATACGTAATGCCCTTTTATGCTGCTCAGCCAGACAAAGGTACACTAGGAGGCAGCAAC
 TGCCCTTCCAGACAACCGTGGCTGTGCTGAGGAAGCCTAGCCTGCAGCTCATTCTGGCTGCCAGTGTGG
 CCTTGGTAGTGGACTCTGGCCTGGTACTACATG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001136066
Insert Size: 948 bp



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OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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_001136066.2 , NP_001129538.1
RefSeq Size:	1258 bp
RefSeq ORF:	948 bp
Locus ID:	15369
UniProt ID:	O70252
Cytogenetics:	16 2.46 cM
Gene Summary:	<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 (1) represents the predominant transcript. Both variants 1 and 2 encode the same protein.</p>