

## Product datasheet for **RR215570**

### Hmox1 (NM\_012580) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hmox1 (NM\_012580) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Hmox1  
**Synonyms:** Heox; HEOXG; Hmox; Ho-1; Ho1; hsp32  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR215570 representing NM\_012580  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGCGCCACAGCTCGACAGCATGTCCAGGATTTGTCGAGGCCTGAAGGAGGCCACCAAGGAGG  
TGCACATCCGTGCAGAGAATTCTGAGTTCATGAGGAAC TTCAGAAGGGTCAGGTGTCCAGGGAAGGCTT  
TAAGCTGGTGATGGCCTCCTTGTACCATATCTATACGGCCCTGGAAGAGGAGATAGAGCGAAACAAGCAG  
AACCCAGTCTATGCCCACTCTACTTCCCTGAGGAGCTGCACCGAAGGGCTGCCCTAGAGCAGGACATGG  
CCTTCTGGTATGGGCCCACTGGCAGGAGGCCATCCCTTACACACCAGCCACACAGCACTACGTAAGCG  
TCTCCACGAGGTGGGAGGTACTCATCTGAGCTGCTGGTGGCCACGCATATACCCGCTACCTGGGTGAC  
CTCTCAGGGGTCAGGTCTGAAGAAGATTGCGCAGAAGGCCATGGCCTTGCCAAGCTCTGGGGAAGGCC  
TGGCTTTTTTACCTTCCCGAGCATCGACAACCCACCAAGTTCAAACAGCTCTATCGTGTCTGCATGAA  
CACTCTGGAGATGACCCCGAGGTCAAGCACAGGGTGACAGAAGAGGCTAAGACCGCTTCTGTCTCAAC  
ATTGAGCTGTTTGAGGAGCTGCAGGCACTGCTGACAGAGGAACACAAAGACCAGAGTCCCTCACAGACAG  
AGTTTCTCGCCAGAGGCTGCTAGCCTGGTTCAAGATACTACCTCTGCAGAGACGCCCGAGGAAAATC  
CCAGATCAGCACTAGTTCATCCCAGACACCGCTCCTGCGATGGTCTCACACTCAGTTTCTGTGGCG  
ACCGTGGCAGTGGGAATTTATGCCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR215570 representing NM\_012580  
 Red=Cloning site Green=Tags(s)

MERPQLDSMSQDLSEALKEATKEVHIRAENSEFMRNFQKGQVSREGFKLVMSLYHIYTALEEEIERNKQ  
 NPVYAPLYFPEELHRRRAALEQDMAFWYGPHWQEAIPYTPATQHVKRLHEVGGTHPELLVAHAYTRYLGD  
 LSGGQVLKkiaAQKAMALPSSGEGLAFFTFPSIDNPTKFKQLYRARMNTLEMTPEVKHRVTEEAKTAFLLN  
 IELFEELQALLTEEHKQSPSQTEFLRQRPASLVQDTTSAETPRGKSQISTSSSQTPLLRWLTL SFLLA  
 TVAVGIYAM

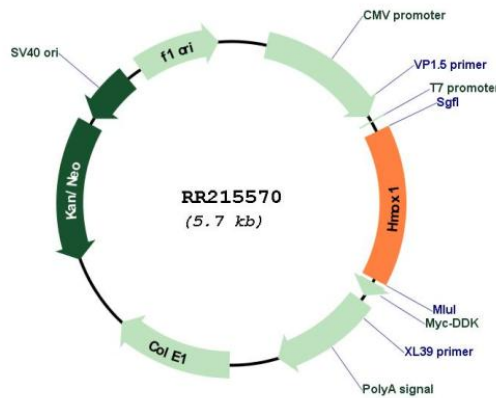
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_012580

**ORF Size:** 867 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_012580.2</a> , <a href="#">NP_036712.1</a>
<b>RefSeq Size:</b>	1600 bp
<b>RefSeq ORF:</b>	870 bp
<b>Locus ID:</b>	24451
<b>UniProt ID:</b>	<a href="#">P06762</a>
<b>Cytogenetics:</b>	19p11
<b>MW:</b>	33 kDa
<b>Gene Summary:</b>	catalyzes the oxidative cleavage of heme to biliverdin [RGD, Feb 2006]