

## Product datasheet for RR214245

### Hmox2 (NM\_024387) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hmox2 (NM_024387) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hmox2
Synonyms:	Ho-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214245 representing NM_024387 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTCTTCAGAGGTGGAGACCTCGGAGGGCGTCGATGAGTCAGAGAACAACCTCTACGGCACCAGAAAAGG  
AAAACCATACCAAATGGCAGACCTTTCTGAGCTCCTGAAGGAAGGGACCAAGGAAGCACATGACCGGGC  
AGAAAATACCCAGTTTGTCAAAGACTTCTTGAAGGAAACATTAAGAAGGAGCTATTTAAGCTGGCCACC  
ACTGCACTTTACTTCACATACTCAGCCCTTGAGGAGGAAATGGATCGCAACAAGGACCACCCAGCCTTCG  
CCCCCTTATATTTCCCCACGGAACCTACACCGGAAGGAAGCACTGATCAAGGACATGGAGTATTTCTTTGG  
TGAAAACCTGGGAGGAGCAGGTGAAGTGCTCCGAGGCTGCCCAGAAGTATGTGGATCGGATCACTACGTA  
GGACAGAATGAGCCAGAGCTGCTGGTGGCCATGCTTACACTCGTTACATGGGGGACCTTTCGGGAGGCC  
AGGTGCTGAAGAAGGTGGCTCAGCGGGCACTAAAACCTCCAGCACTGGGAAGGGACCCAGTTCTACCT  
GTTTCGAGCATGTGGACAATGCCAGCAATCAAGCAGTTCTACCGTGCCAGGATGAATGCCTTGGACCTG  
AGTATGAAGACCAAGAGAGGATTGTGGAGGAGCCAAACAAGCCTTTGAATATAATATGCAGATATTCA  
GTGAACCTGGACCAGGCTGGCTCCATGCTAACAAAAGAAACCTGGAGGATGGGCTCCAGTACATGATGG  
GAAAGGAGATGTACGTAATGCCCTTTTATGCTGCTCAGCCAGACAAAGGTACCCTGGGAGGCAGCAAC  
TGCCCTTCCGGACAGCCATGGCTGTGCTGAGGAAGCCTAGCCTGCAGCTCATTCTGGCTGCCAGTGTGG  
CCTTGGTAGTGGACTCTTGGCCTGGTACTACATG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR214245 representing NM\_024387  
 Red=Cloning site Green=Tags(s)

MSSEVETSEGVDESENNSTAPEKENHTKMADLSELLKEGTKEAHDRAENTQFVKDFLKGNIKKELFKLAT  
 TALYFTYSALIEEEMDRNKDHPAFAPLYFPTELHRKEALIKDMEYFFGENWEEQVKCEAAQKYVDRIHVY  
 GQNEPELLVAHAYTRYMGDLGGQVLLKVAQRALKLPSTGEGTQFYLFEHVDNAQQFKQFYRARMNALDL  
 SMKTKERIVVEANKAFEYNMQIFSELDQAGSMLTKETLEDGLPVHDGKGDVRKCPFYAAQPKGTLGGSN  
 CPFRTAMAVLRKPSLQLILAASVALVAGLLAWYYM

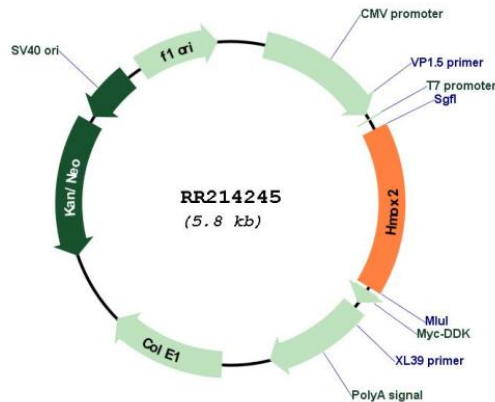
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_024387

**ORF Size:** 945 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_024387.2</a> , <a href="#">NP_077363.1</a>
<b>RefSeq Size:</b>	1839 bp
<b>RefSeq ORF:</b>	948 bp
<b>Locus ID:</b>	79239
<b>UniProt ID:</b>	<a href="#">P23711</a>
<b>Cytogenetics:</b>	10q12
<b>MW:</b>	35.8 kDa
<b>Gene Summary:</b>	catalyzes the conversion of heme to biliverdin; involved in cellular response to oxidative stress [RGD, Feb 2006]