

Product datasheet for RR216330

Hmox2 (NM_001277073) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hmox2 (NM_001277073) 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:	>RR216330 representing NM_001277073 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTCAGAGGTGGAGACCTCGGAGGGCGTCGATGAGTCAGAGAACAACCTCTACGGCACCAGAAAAGG
AAAACCATACCAAATGGCAGACCTTTCTGAGCTCCTGAAGGAAGGGACCAAGGAAGCACATGACCGGGC
AGAAAATACCCAGTTTGTCAAAGACTTCTTGAAGGAAACATTAAGAAGGAGCTATTTAAGCTGGCCACC
ACTGCACTTTACTTCACATACTCAGCCCTTGAGGAGGAAATGGATCGCAACAAGGACCACCCAGCCTTCG
CCCCCTTATATTTCCCCACGGAACCTACACCGGAAGGAAGCACTGATCAAGGACATGGAGTATTTCTTTGG
TGAAAACCTGGGAGGAGCAGGTGAAGTGCTCCGAGGCTGCCCAGAAGTATGTGGATCGGATCACTACGTA
GGACAGAATGAGCCAGAGCTGCTGGTGGCCATGCTTACACTCGTTACATGGGGGACCTTTCGGGAGGCC
AGGTGCTGAAGAAGGTGGCTCAGCGGGCACTAAAACCTCCCGAGCACTGGGAAGGGACCCAGTTCTACCT
GTTTCGAGCATGTGGACAATGCCAGCAATCAAGCAGTTCTACCGTGCCAGGATGAATGCCTTGGACCTG
AGTATGAAGACCAAGAGAGGATTGTGGAGGAGGCCAACAAGCCTTTGAATATAATATGCAGATATTCA
GTGAACCTGGACCAGGCTGGCTCCATGCTAACAAAAGAAACCTGGAGGATGGGCTCCAGTACATGATGG
GAAAGGAGATGTACGTAATGCCCTTTTATGCTGCTCAGCCAGACAAAGGTACCCTGGGAGGCAGCAAC
TGCCCTTCCGGACAGCCATGGCTGTGCTGAGGAAGCCTAGCCTGCAGCTCATTCTGGCTGCCAGTGTGG
CCTTGGTAGTGGACTCTTGGCCTGGTACTACATG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216330 representing NM_001277073
 Red=Cloning site Green=Tags(s)

MSSEVETSEGVDESENNSTAPEKENHTKMADLSELLKEGTKEAHDRAENTQFVKDFLKGNIKKELFKLAT
 TALYFTYSALIEEEMDRNKDHPAFAPLYFPTELHRKEALIKDMEYFFGENWEEQVKCEAAQKYVDRIHVY
 GQNEPELLVAHAYTRYMGDLGGQVLKKVAQRALKLPSTGEGTQFYLFEHVDNAQQFKQFYRARMNALDL
 SMKTKERIVVEANKAFEYNMQIFSELDQAGSMLTKETLEDGLPVHDGKGDVVRKCCPFYAAQDPDKGTLGGSN
 CPFRTAMAVLRKPSLQLILAASVALVAGLLAWYYM

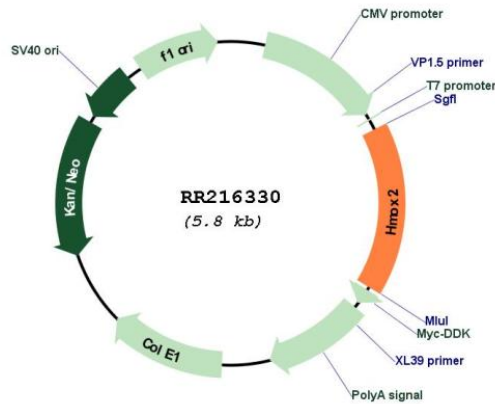
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001277073

ORF Size: 945 bp

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001277073.1 , NP_001264002.1
RefSeq Size:	1795 bp
RefSeq ORF:	948 bp
Locus ID:	79239
UniProt ID:	P23711
Cytogenetics:	10q12
MW:	35.8 kDa
Gene Summary:	catalyzes the conversion of heme to biliverdin; involved in cellular response to oxidative stress [RGD, Feb 2006]