

## Product datasheet for **RR210816**

### Hao1 (NM\_001107780) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hao1 (NM_001107780) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hao1
Synonyms:	Gox1; XDH1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210816 representing NM_001107780 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGCCTCGGCTGGTCTGCATCAGTGACTATGAACAGCATGCCCGACAGTGTTCAGAAGTCAGTAT  
ATGATTATTACAAGTCTGGGCAAATGACCAGGAGACTTTGGCTGATAATATCAGAGCATTTTCTAGGTG  
GAAGCTCTATCCACGGATGCTGCGCAACGTTGCTGATATCGACCTGTCGACTTCTGTTTTAGGACAGAGA  
GTGAGCATGCCAATATGCGTTGGGGCTACGGCTATGCAGTGCATGGCTCATGTGGATGGGAGCTGGCCA  
CTGTTTCGAGCCTGTCAGACCATGGGAAGTGGCATGATGTTGAGTTCCTGGGCCACTTCTCAATAGAAGA  
GGTGGCAGAGGCTGGCCCGGAGGCACTTCGCTGGATGCAACTCTACATCTACAAAGATCGTGAGGTCAGC  
AGTCAGCTAGTGAAGAGGGCTGAGCAGATGGGTTACAAGGCCATATTTGTGACTGTGGACACCCCTTACC  
TGGGAAATCGCTTCGATGATGTGCGGAACAGGTTCAAGCTACCACCACAGCTCAGGATGAAAACTTTGA  
AACCAACGATTTGGCATTCTCCTAAGGGGAATTTGGAGACAACAGTGGCCTTGCTGAATATGTGGCA  
CAAGCCATAGACCCATCTCTCAGCTGGGATGATATAAATGGCTCAGACGGTTGACCTCACTGCCATTG  
TTGTAAGGGAATTTTGAGAGGTGATGATGCCAGGAAGCTGTTAAACATGGTGTGGATGGGATCTTAGT  
GTCGAATCATGGGACAGACAACACTGGATGGGGTGCCAGCTACTATTGATGCCCTGCCAGAGATCGTTGAG  
GCTGTGGAAGGGAAGGTAGAAGTCTTCTGGATGGGGAGTCAGGAAAGGCACCGATGTTCTCAAAGCTC  
TGGCCCTGGGAGCCAGAGCTGTTTTGTGGGAGACCCATCATCTGGGGCTTGGCTTTCCAGGGGAGAA  
AGGTGTTCAAGATGTCTCGAGATACTGAAGGAAGAGTCCGGCTGGCCATGGCTCTGAGTGGGTGCCAG  
AATGTGAAAGTCATCGACAAGACATTGGTGAGGAAAAATCCTTTGGCTGTTTCCAAGATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR210816 representing NM\_001107780  
 Red=Cloning site Green=Tags(s)

MLPRLVCISDYEQHARTVLQKSVYDYYKSGANDQETLADNIRAFSRWKL YPRMLRN VADIDLSTSVLGQR  
 VSMPICVGATAMQCMHVDGELATVRACQTMGTGMLSSWATSSIEEVAEAGPEALRWMQLYIYKDREVS  
 SQLVKRAEQMGYKAIFVTVDTPYLGNRFDDVRNRFKLPQLRMKNFETNDLAFSPKGNFGDNSGLAEYVA  
 QAIDPSLSWDDIKWLRRLLTSLPIVVKGILRGDDAQEAVKHGVDGILVSNHGARQLDGV PATIDALPEIVE  
 AVEGKVEVFLDGGVVRKGTDLKALALGARAVFVGRPIIWGLAFQGEKGVQDVLEILKEEFRLAMALSGCQ  
 NVKVIDKTLVRKNPLAVSKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

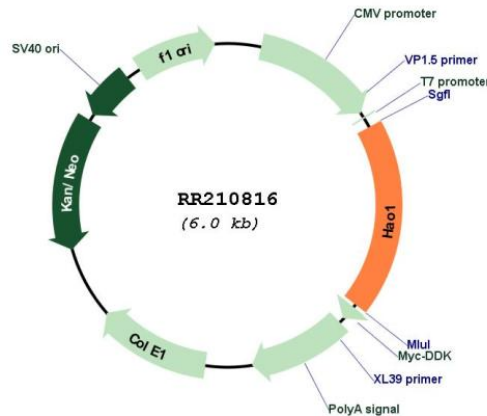
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001107780

<b>ORF Size:</b>	1110 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_001107780.2</a> , <a href="#">NP_001101250.1</a>
<b>RefSeq Size:</b>	1527 bp
<b>RefSeq ORF:</b>	1113 bp
<b>Locus ID:</b>	311446
<b>Cytogenetics:</b>	3q36
<b>MW:</b>	41 kDa
<b>Gene Summary:</b>	catalyzes the oxidation of glycolate to glyoxylate and H2O2; may be involved in response to oxidative stress [RGD, Feb 2006]