

## Product datasheet for **MG225007**

### Hao1 (NM\_010403) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hao1 (NM_010403) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hao1
Synonyms:	GOX; Gox1; Hao-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225007 representing NM_010403 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGCCTCGACTGGTCTGCATCAGTGATTATGAACAGCATGTCCGATCAGTGTTCAGAAGTCAGTGT  
ATGACTATTACAGGTCTGGGGCAAATGATCAGGAGACGTTAGCTGATAACATCCAAGCATTTTCTAGATG  
GAAGCTCTATCCACGGATGCTTCGCAACGTTGCTGATATCGATCTGTCAACTTCTGTTTTAGGACAGAGA  
GTCAGCATGCCAATATGTGTTGGGGCTACTGCCATGCAGTGCATGGCTCACGTGGACGGGAGCTGGCCA  
CTGTGCGAGCCTGTCAGACCATGGGAACGGCATGATGCTGAGTCTTGGGCTACCTCCTCAATAGAAGA  
AGTGGCAGAAGCTGGCCCAGAGGCACTTCGCTGGATGCAACTGTACATCTACAAAGACCGTGAGATCAGC  
AGACAGATAGTGAAGCGAGCTGAGAAGCAGGGTTACAAGGCCATATTTGTGACTGTGGACACCCCTTACC  
TGGGCAACCGCATTGATGACGTGCGGAACAGGTTCAAGCTGCCACCACAACCTCAGGATGAAAACTTTGA  
AACCAATGATTTGGCATTCTCTCCTAAGGGAAATTTGGAGACAACAGTGGACTTGCTGAATATGTGGCA  
CAAGCTATAGACCCATCTCTCAGCTGGGATGATATTACATGGCTCAGACGATTGACATCACTGCCTATTG  
TTGTAAGGGCATTGAGAGGTGATGATGCCAAGGAAGCTGTTAAACATGGTGTGGATGGGATCTTGGT  
GTCGAATCATGGGGCGCACAACCTGGATGGGGTCCAGCTACTATTGATGCTCTGCCAGAGATTGTTGAG  
GCTGTGGAAGGGAAGGTAGAAGTCTTCCCTGGATGGGGAGTAAGGAAAGGTAAGTATGTTCTCAAAGCTC  
TGGCCCTAGGAGCCAAGGCCGTTTTTGTGGGAAGACCCATCATCTGGGGCTTGGCTTTCCAGGGGGAGAA  
AGGTGTTCAAGATGTCCTCGAGATATTGAAGGAAGAATCCGACTGGCCATGGCTCTGAGTGGGTGCCAG  
AATGTGAAAGTCATCGACAAGACATTGGTGAAGAAAAATCCTTTGGCTGTTTCCAAGATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG225007 representing NM\_010403  
 Red=Cloning site Green=Tags(s)

MLPRLVCISDYEQHVRSVLQKSVYDYRSGANDQETLADNIQAFSRWKL YPRMLRN VADIDLSTSVLGQR  
 VSMPICVGATAMQCMahVDGELATVRACQTMGTGMLSSWATSSIEEVAEAGPEALRWMQLYIYKDREIS  
 RQIVKRAEKQGYKAIFVTVDTPYLGNRIDVVRNRFKLPQLRMKNFETNDLAFSPKGNFGDNSGLAEYVA  
 QAIDPSLSWDDITWLRRLTSLPIVVKGILRGDDAKEAVKHGVDGILVSNHGARQLDGV PATIDVLP EIVE  
 AVEGKVEVFLDGGVVRKGTDLKALALGAKAVFVGRPIIWGLAFQGEKGVQDVLEILKEEFRLAMALSGCQ  
 NVKVIDKTLVRKNPLAVSKI

TRTRPLE - GFP Tag - V

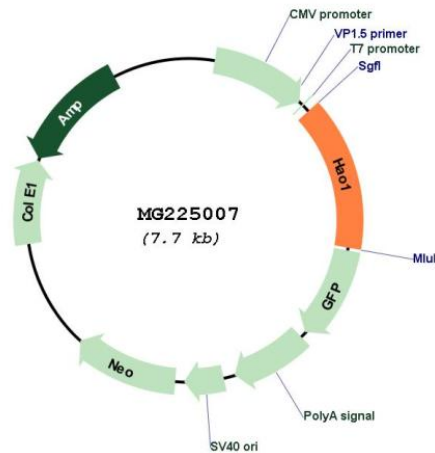
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_010403

<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_010403.2</a> , <a href="#">NP_034533.1</a>
<b>RefSeq Size:</b>	2029 bp
<b>RefSeq ORF:</b>	1113 bp
<b>Locus ID:</b>	15112
<b>UniProt ID:</b>	<a href="#">Q9WU19</a>
<b>Cytogenetics:</b>	2 65.65 cM
<b>Gene Summary:</b>	Has 2-hydroxyacid oxidase activity. Most active on the 2-carbon substrate glycolate, but is also active on 2-hydroxy fatty acids, with high activity towards 2-hydroxy palmitate and 2-hydroxy octanoate (By similarity).[UniProtKB/Swiss-Prot Function]