

Product datasheet for MR225007

Hao1 (NM_010403) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hao1 (NM_010403) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hao1
Synonyms:	GOX; Gox1; Hao-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225007 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGCCTCGACTGGTCTGCATCAGTGATTATGAACAGCATGTCCGATCAGTGTTCAGAAGTCAGTGT
ATGACTATTACAGGTCTGGGGCAAATGATCAGGAGACGTTAGCTGATAACATCCAAGCATTTTCTAGATG
GAAGCTCTATCCACGGATGCTTCGCAACGTTGCTGATATCGATCTGTCAACTTCTGTTTTAGGACAGAGA
GTCAGCATGCCAATATGTGTTGGGGCTACTGCCATGCAGTGCATGGCTCACGTGGACGGGAGCTGGCCA
CTGTGCGAGCCTGTCAGACCATGGGAATGGCATGATGCTGAGTCTTGGGCTACCTCCTCAATAGAAGA
AGTGGCAGAAGCTGGCCCAGAGGCACTTCGCTGGATGCAACTGTACATCTACAAAGACCGTGAGATCAGC
AGACAGATAGTGAAGCGAGCTGAGAAGCAGGGTTACAAGGCCATATTTGTGACTGTGGACACCCCTTACC
TGGGCAACCGCATTGATGACGTGCGGAACAGGTTCAAGCTGCCACCACAACCTCAGGATGAAAACTTTGA
AACCAATGATTTGGCATTCTCCTAAGGGAAATTTGGAGACAACAGTGGACTTGTGAATATGTGGCA
CAAGCTATAGACCCATCTCTCAGCTGGGATGATATTACATGGCTCAGACGATTGACATCACTGCCTATTG
TTGTAAGGGCATTGAGAGGTGATGATGCCAAGGAAGCTGTTAAACATGGTGTGGATGGGATCTTGGT
GTCGAATCATGGGGCGCACAACCTGGATGGGGTCCAGCTACTATTGATGCTCTGCCAGAGATTGTTGAG
GCTGTGGAAGGGAAGGTAGAAGTCTTCTGGATGGGGAGTAAGGAAAGTACTGATGTTCTCAAAGCTC
TGGCCCTAGGAGCCAAGGCCGTTTTTGTGGGAAGACCCATCATCTGGGGCTTGGCTTTCCAGGGGGAGAA
AGGTGTTCAAGATGTCCTCGAGATATTGAAGGAAGAATCCGACTGGCCATGGCTCTGAGTGGGTGCCAG
AATGTGAAAGTCATCGACAAGACATTGGTGAAGAAAATCCTTTGGCTGTTTCCAAGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR225007 protein sequence
 Red=Cloning site Green=Tags(s)

MLPRLVCISDYEQHVRSVLQKSVYDYRSGANDQETLADNIQAFSRWKL YPRMLRN VADIDLSTSVLGQR
 VSMPICVGATAMQCMahVDGELATVRACQTMGTGMLSSWATSSIEEVAEAGPEALRWMQLYIYKDREIS
 RQIVKRAEKQGYKAIFVTVDTPYLGNRIDVVRNRFKLPQLRMKNFETNDLAFSPKGNFGDNSGLAEYVA
 QAIDPSLSWDDITWLRRLTSLPIVVKGILRGDDAKEAVKHGVDGILVSNHGARQLDGV PATIDVLP EIVE
 AVEGKVEVFLDGGVVRKGTDLKALALGAKAVFVGRPIIWGLAFQGEKGVQDVLEILKEEFRLAMALSGCQ
 NVKVIDKTLVRKNPLAVSKI

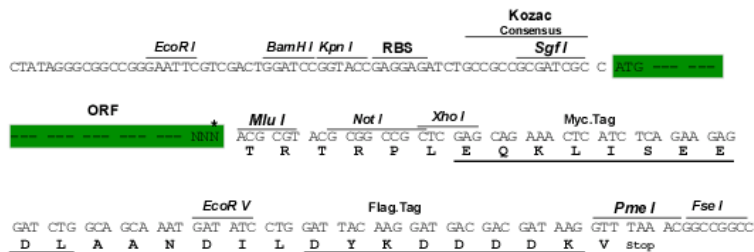
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010403

ORF Size: 1113 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:

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_010403.2](#), [NP_034533.1](#)

RefSeq Size: 2029 bp

RefSeq ORF: 1113 bp

Locus ID: 15112

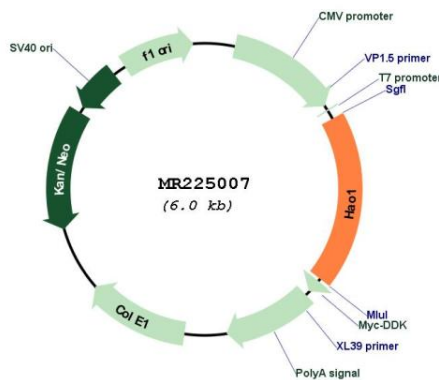
UniProt ID: [Q9WU19](#)

Cytogenetics: 2 65.65 cM

MW: 41 kDa

Gene Summary: 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]

Product images:



Circular map for MR225007